QUANTITY + COST ESTIMATE

10 14	C.Y. C.Y.	\$4.00	IDER MASS GRAD	\$88,000.00
10	C.Y.			\$88,000.00
	EACH			
	EACH			
14	· · · · · · · · · · · · · · · · · · ·	\$1200.00		\$12,000.00
	EACH	\$2000.00		\$28,000.00
				<u> </u>
	540 11	A1500 00		4.0.000
9	EACH	\$1500.00		\$13,500.00
4707	EACH	A70.00		A70.040.0 6
				\$39,210.00
	 			\$12,670.00
				\$20,350.00 \$6,060.00
				\$66,360.00
		\$120.00		\$00,000.00
				<u></u>
	LIN. FT.			
	 	,		
				<u></u>
	LUMP SUM			
	LIN. FT.			
45.0	C.Y.	\$ 75.00		\$3,380.00
	S.Y.			
	EACH			
1	EACH	\$500.00		\$ 500.00
2	EACH	\$1200.00		\$2,400.00
	EACH			
	LIN. FT.			
4630	LIN. FT.	\$ 12.00		\$ 55,560.00
	EACH			
	S.Y.			
	S.Y.			

				\$95,840.00
2605		\$10.00		\$26,050.00
		A		#==
2/00		\$22.00		\$59,400.00
		44000.00		44 000 00
				\$1,000.00
				\$5,000.00
				\$1,250.00
11		₽ 300.00		\$5,500.00
44		\$ 250.00		\$2,750.00
		 		\$2,750.00 \$3,500.00
10	EAUT	#JJU.UU	_	4 3,300.00
2282	IIN ET	\$20.00		\$45,640.00
				\$15,500.00
				\$18,000.00
14		¥1,000.00		¥10,000.00
	LAON			
1	LUMP SUM	\$2,500.00		\$2,500.00
		<u>.</u>		
	LUMP SUM			
		·	SUB-TOTAL	\$629,920.0
				\$62,990.00
,				\$692,910.0
				4002,310.00
	1 2 4630 5990 2605 2700 1 4 5 11 11 10 2282 31 12	1307 LIN. FT. 352 LIN. FT. 424 LIN. FT. 101 LIN. FT. 553 LIN. FT. LIN. FT. LIN. FT. LIN. FT. LIN. FT. LIN. FT. LIN. FT. 45.0 C.Y. S.Y. EACH 1 EACH 2 EACH EACH EACH S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. LIN. FT. LIN. FT. LIN. FT. EACH S.Y. 1 EACH S.Y. 1 EACH S.Y. 1 EACH LIN. FT. EACH AEACH	1307 LIN. FT. \$30.00 352 LIN. FT. \$36.00 424 LIN. FT. \$48.00 101 LIN. FT. \$60.00 553 LIN. FT. \$120.00 LIN. FT. LIN. FT. LIN. FT. LIN. FT. LIN. FT. LUMP SUM LIN. FT. 45.0 C.Y. \$75.00 S.Y. \$75.00 EACH LIN. FT. \$120.00 EACH LIN. FT. \$120.00 EACH S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. S.Y. \$16.00 2605 S.Y. \$16.00 EACH 2700 LIN. FT. \$22.00 LIN. FT. \$22.00 LIN. FT. \$22.00 LIN. FT. \$20.00 EACH 2700 EACH 2700 LIN. FT. \$20.00 EACH 2700 EACH 2700 LIN. FT. \$20.00 EACH 2700 EACH 2700 EACH 2700 EACH 2700 EACH 2700 LIN. FT. \$20.00 EACH 2700 EACH 270	1307

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 autter

construction site.

on plans.

- 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 Rognoke 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.

Field construction shall honor proposed drainage divides as shown

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

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.

REMOVED PER VDOT

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.

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

The contractor shall provide adequate means of cleaning mud from

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 and VDOT prior to such construction.

100 year floodway and floodplain information shall be shown where

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

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.

VICINITY MAP

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.

Property Line

Right-of-way

Minimum Building Line

Existing Storm Sewer

Existing Water Main

Existing Contour

Proposed Contour

Existing Sanitary Sewer

Centerline

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

LEGEND

24" S.D.

CATAWBA

494 GLENMORE DRIVE

SALEM, VIRGINIA 24153

Availability number_____

BLOWOFF/

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in

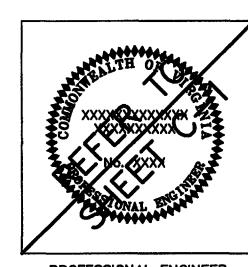
All elevations must be referenced to the National Geodetic Vertical Datum of 1929.

Source of topographic mapping is

Boundary was performed by

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

mapping to be accurate and correct.



PROFESSIONAL ENGINEER SEAL AND SIGNATURE

COUNTY OF ROANOKE

INDEX

NAME OF DEVELOPMENT SECTION 4

MAGISTERIAL DISTRICT(S)

OWNER (name, address, telephone)

FOXFIELD at **RUSSLEN FARMS**

OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APP-LICABLE COUNTY CODES. I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THESE REQUIREMENTS, UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.

OWNER/DEVELOPER, AM AWARE

TAX MAP NO(S)

DEVELOPER (name, address, telephone)

RUSSLEN FARMS DEVELOPMENT, LLC 494 GLENMORE DRIVE

RUSSLEN FARMS DEVELOPMENT, LLC

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

56.03

SALEM, VIRGINIA 24153

CALDWELL WHITE ASSOCIATES P.O. BOX 6260 ROANOKE, VIRGINIA 24017

BLOCK NO(S)

PARCEL NO(S) ___ 37 and 43.1 WVWA ID# 6PENKM

THIS SHEET WAS PREPARED BY ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT. CALDWELL WHITE ASSOCIATES IS NOT RESPONSIBLE FOR THE CONTENT OF THIS SHEET OR ANY ERRORS, OMISSIONS OR CONFLICTS RESULTING FROM THE DATA SHOWN HEREON.

SHEET C-2 OF 23