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" HIGH DENSITY POLYETHYLENE PIPE	213	LIN. FT.	\$4.00	\$852.00	\$852.00
" HIGH DENSITY POLYETHYLENE PIPE	173			·	
		LIN. FT.	\$6.00	\$1,038.00	\$1,038.00
2" HIGH DENSITY POLYETHYLENE PIPE	218	LIN. FT.	\$8.00	\$1,744.00	\$1,744.00
5" HIGH DENSITY POLYETHYLENE PIPE	32	LIN. FT.	\$10.00	\$320.00	\$320.00
" SDR35 PVC STORM PIPE	24	LIN. FT.	\$12.00	\$288.00	\$288.00
"SDR35 PVC STORM PIPE	163	LIN. FT.	\$14.00	\$2,282.00	\$2,282.00
5" RCP	82	LIN. FT.	\$18.00	\$1,476.00	\$1,476.00
8" RCP	62	LIN. FT.	\$22.00	\$1,364.00	\$1,364.00
O" NYLOPLAST INLINE DRAIN	6	EACH	\$90.00	\$540.00	\$540.00
2" NYLOPLAST INLINE DRAIN	1	EACH	\$190.00	\$190.00	\$190.00
4" NYLOPLAST INLINE DRAIN	4	EACH	\$650.00	\$650.00	\$650.00
5" NYLOPLAST DRAINAGE BASIN	1	EACH	\$350.00	\$350.00	\$350,00
8" NYLOPLAST DRAINAGE BASIN	2 '	EACH	\$420.00	\$840.00	\$840.00
ROP INLET VDOT ST'D DI-1	1	EACH	\$1,500.00	\$1,500.00	\$1,500.00
URB INLET VDOT ST'D DI-3B, L=12'		······································			
**************************************	1	EACH	\$3,500.00	\$3,500.00	\$3,500.00
RENCH DRAIN W/ NEENAH FRAME AND GRATE	24	LIN.FT.	\$60,00	\$1,440.00	\$1,440.00
5" END-SECTION VDOT ST'D ES-1	2	EACH	\$350.00	\$700.00	\$700.00
8" END_SECTION VDOT ST'D ES-1	2	EACH	\$450.00	\$900.00	\$900.00
		various variotisch administration (various) and delection on the			www.neglangessaansaas
SURB & GUTTER, CG-6	170	LIN. FT.	\$13.50	\$2,295.00	\$2,295.00
ONC. CURB, CG-2	476	LIN. FT.	\$10.00	\$4,760.00	\$4,760.00
/DOT ST'D ENTRANCE, CG-9A	1	EACH	\$1,500.00	\$1,500.00	\$1,500.00
RETAINING WALL	1600	SF./FACE	\$8.00	\$12,800.00	\$12,800.00
	1				
2-IN. BIT. CONC. SURFACE COURSE TYPE SM-2A 6-IN. AGGREGATE SUBBASE MATERIAL TYPE 21-A	1,335	S.Y.	\$13.00	\$17,355.00	\$17,355.00
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WATERINE SCHEDULE DRIA DVC			\$12.00	\$0.540.00	* 0 540 00
	530	LIN. FT.	\$18.00	\$9,540.00	
IRE HYDRANT ASSEMBLIES	530	LIN. FT. EACH	\$2,000.00	\$4,000.00	\$4,000.00
IRE HYDRANT ASSEMBLIES " TYPE K COPPER WATER SERVICE	530 2 245	LIN. FT. EACH LIN. FT.	\$2,000.00 \$12.00	\$4,000.00 \$2,940.00	\$4,000.00 \$2,940.00
IRE HYDRANT ASSEMBLIES " TYPE K COPPER WATER SERVICE	530	LIN. FT. EACH	\$2,000.00	\$4,000.00	\$4,000.00
IRE HYDRANT ASSEMBLIES ** TYPE K COPPER WATER SERVICE METER BOXES	530 2 245	LIN. FT. EACH LIN. FT.	\$2,000.00 \$12.00	\$4,000.00 \$2,940.00	\$4,000.00 \$2,940.00
IRE HYDRANT ASSEMBLIES TYPE K COPPER WATER SERVICE ETER BOXES	530 2 245	LIN. FT. EACH LIN. FT.	\$2,000.00 \$12.00	\$4,000.00 \$2,940.00	\$4,000.00 \$2,940.00
IRE HYDRANT ASSEMBLIES "TYPE K COPPER WATER SERVICE METER BOXES	530 2 245	LIN. FT. EACH LIN. FT.	\$2,000.00 \$12.00	\$4,000.00 \$2,940.00	\$4,000.00 \$2,940.00
IRE HYDRANT ASSEMBLIES "TYPE K COPPER WATER SERVICE METER BOXES "SDR35 PVC SANITARY SEWER PIPE	530 2 245	LIN. FT. EACH LIN. FT.	\$2,000.00 \$12.00	\$4,000.00 \$2,940.00	\$4,000.00 \$2,940.00 \$450.00
IRE HYDRANT ASSEMBLIES "TYPE K COPPER WATER SERVICE METER BOXES "SDR35 PVC SANITARY SEWER PIPE TANDARD MANHOLE W/FRAME & COVER	530 2 245 9	LIN. FT. EACH LIN. FT. EACH	\$2,000.00 \$12.00 \$50.00	\$4,000.00 \$2,940.00 \$450.00	\$4,000.00 \$2,940.00 \$450.00 \$4,578.00
IRE HYDRANT ASSEMBLIES " TYPE K COPPER WATER SERVICE METER BOXES " SDR35 PVC SANITARY SEWER PIPE TANDARD MANHOLE W/FRAME & COVER	530 2 245 9	LIN. FT. EACH LIN. FT. EACH	\$2,000.00 \$12.00 \$50.00 \$14.00	\$4,000.00 \$2,940.00 \$450.00 \$4,578.00	\$4,000.00 \$2,940.00 \$450.00 \$4,578.00 \$6,000.00
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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

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

INDEX

SHEET SP-I ROANOKE COUNTY COVER & NOTES

SHEET SP-2 DIMENSIONAL LAYOUT PLAN

SHEET SP-3 EROSION CONTROL PLAN

SHEET SP-4 GRADING & DRAINAGE PLAN

SHEET SP-5 UTILITY SERVICES PLAN SHEET SP-6 STORM SEWER PROFILES

SHEET SP-7 SANITARY SEWER & WATERLINE PROFILES

SHEET SP-8 ROANOKE COUNTY EROSION & SEDIMENT CONTROL DETAILS

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

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.

WATER NOTES

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

Contractor shall be responsible for locating and uncovering valve

All trenches in existing or future highway right-of-ways shall be

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

<u>M.B.L.</u>

8" SAN. 8" SAN.

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

vaults after paving and adjustment to final grade if necessary.

Regulations, Section 12.05.03, where lines cross.

compacted according to V.D.O.T. standards.

Lines shall be staked prior to construction.

Availability number 03-20

Property Line

Right-of-way

Existing Storm Sewer

Existing Water Main

Existing Contour

Proposed Contour

Proposed Drainage Divide

Proposed Storm Sewer

Proposed Water Main

Proposed Sanitary Sewer

Proposed Limits of Clearing ———

Existing Sanitary Sewer

Centerline

Lines shall be staked prior to construction.

VICINITY MAP NO SCALE TO ROANOKE

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in (year) 2002 by LUMSDEN ASSOCIATES, P.C.

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

Source of topographic mapping is FIELD SURVEY BY LUMSDEN ASSOCIATES, P.C. dated <u>2002</u>

Boundary was performed by LUMSDEN ASSOCIATES, P.C.

dated __2002 DEVELOPMENT PLAN The professional seal and signature below certifies the boundary survey and topographic mapping to be accurate and correct. FOR CONSTRUCTION BY ROANOKE COUNTY Department | | Date Development Review DB 6/4/04 Water & Sever Planning & Zoning

ARCHITECT SEAL AND SIGNATURE

2711

CERTIFIED LAND SURVEYOR SEAL AND SIGNATURE

OWNER/DEVELOPER, AM AWARE

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.

COUNTY OF ROANOKE

GARDEN TOWNHOMES NAME OF DEVELOPMENT EMERALD COURT HOMES

HOLLINS

MAGISTERIAL DISTRICT(S)

OWNER (name, address, telephone)

SHELDON HENDERSON 1320 SOUTHSIDE DRIVE SALEM, VIRGINIA 24153

DEVELOPER (name, address, telephone)

G&H DEVELOPMENT CORPORTATION 1320 SOUTHSIDE DRIVE

SALEM, VIRGINIA 24153

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

HUGHES ASSOCIATES ARCHITECTS 656 ELM AVENUE, S.W. P.O. BOX 1034

TEL. 387-5059

TEL. 387-5059

CONTACT: MIKE WOOLWINE (540) 342-4002 TEL. (540) 342-2060 FAX

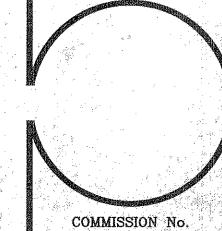
ROANOKE, VIRGINIA 24005 27.08-02-27 TAX MAP NO(S)

HUGHES **ASSOCIATES** ARCHITECTS Architecture * Planning * Consulting

656 ELM AVENUE, S.W. P.O. BOX 1034 ROANOKE, VIRGINIA 24005-1034

TEL (540) 342-4002 FAX (540) 342-2060

ROANOKE COUNT COVER & NOTES



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INUGHES ASSOCIATES ARCHITECTS
A PROFESSIONAL CORPORATION