QUANTITY & COST ESTIMATE

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
- Clearing and grubbing
 Subgrade excavation
 Installing storm sewers or culverts
 Setting curb and gutter forms
- 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

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 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.

Plans are in compliance with ordinance 042799—10, Exhibit A entitled "Roanoke County Center for Research and Technology dated March 24, 1998, Application to Rezone the Property from R—1 to PTD."

<u>INDEX</u>

COUNTY OF ROANOKE

CRT 480+ ACRES

ROANGER COUNTY CENTER POR RESEARCH AND TECHNOLOGY

VICINITY MAP

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in (year) _____2005

Source of topographic mapping is __CALDWELL_WHITE ASSOCIATES

Boundary was performed by CALDWELL WHITE ASSOCIATES

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

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

PROFESSIONAL ENGINEER

SHEET ____OF ____

SEAL AND SIGNATURE

CALDWELL WHITE ASSOCIATES

dated 2005

NAME OF DEVELOPMENT ROANOKE COUNTY CENTE	R FOR RESEARCH AND TECHNOLOGY	I, CONTROL POWDE OWNER / DEVELOPER, AM AWARE OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APP-
MAGISTERIAL DISTRICT(S) CATAWBA		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) TECTON PRO	DUCTS LLC, 4401 15TH AVE NW, FARGO, N	ND 58108-2712 (701)277-0209
DEVELOPER (name, address, telephone) BRANCH	& ASSOCIATES INC., 3902 FRANKLIN ROAD), ROANOKE VA 24014, (540)989—3487
ENGINEER, ARCHITECT OR SURVEYOR (name, addre	ess, telephone) HSMM, 1315 FRANKLIN ROA	AD, ROANOKE VA 24034, (540)857—3100
TAX MAP NO(S) 054.00-01-02.1	BLOCK NO(S)	PARCEL NO(S)

ARCHITECTS ENGINEERS PLANNER:

HAYES, SEAY, MATTERN & MATTERN, INC. 1315 FRANKLIN ROAD ROANOKE, VA 24016 (540) 857-3100 WWW.HSMM.COM

SEALS MARTY L. CROW

CONSULTANT

CONSULTANT



TECTON PRODUCTS, LLC MANUFACTURING FACILITY

ROANOKE COUNTY, VIRGINIA

DATE DESCRIPTION

-						
			·			
COMM NO: 50298						
ISSUE	DATE: OC	OBER	28, 2005			
DESIG	NED BY:	TJG	DRAWN BY:	TJ		
CHEC	KED BY:	MLC	SUBMITTED BY:			
© HAYES, SEAY, MATTERN & MATTERN, INC 2005. ALL RIGHTS RESERVED.						
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GENERAL

ROANOKE COUNTY COVER SHEET

WVWA ID# 6KVQRQ

C001

ZONING TABULATION	,		
SITE ZONING	I-1, PTD		
PROPOSED USE	INDUSTRIAL		
LOT SIZE	20.00 AC		
SETBACKS	· ·		
FRONT (FT)	30		
SIDE (FT)	10		
REAR (FT)	15		
COVERAGE AND PARKING	REQUIRMENT	PROVIDED	
MAXIMUM LOT COVERAGE ALLOWED (%)	90/75 (I-1/PTD)	36.5(1)	
MAXIMUM BUILDING COVERAGE ALI OWED (%)	50 (I-1)	18.5(1)	
MAXIMUM BUILDING HEIGHT ALLOWED (FT)	45	22	
TOTAL PARKING REQUIRED (SPACES)	82	76(2)	
ACCESSIBLE PARKING REQUIRED (SPACES)	4	4	
PARKING SUMMARY			
PHASE 1			
OFFICE AREA (1 SPACE PER 300 SF)	10,900 SF	36 SPACES	
WAREHOUSE AREA (1 SPACE PER 5,000 SF)	19,600 SF	4 SPACES	
MANUFACTURING AREA (1 SPACE PER1,000 SF)	42,000 SF	42 SPACES	
SUBTOTAL	72,500 SF	82 SPACES	4 SPACES (ACCESSIBLE)
PHASE 2			
MANUFACTURING AREA (1 SPACE PER1,000 SF)	42,000 SF	42 SPACES	
PHASE 3			
MANUFACTURING AREA (1 SPACE PER1,000 SF)	42,000 SF	42 SPACES	
TOTAL	156,500 SF		6 SPACES (ACCESSIBLE)

(1) Actual lot and building coverage percentages include ultimate buildout of Phase 3.

(2) Provided parking spaces meets owner requirements for Phase 1. Owner's requirements are based on historical plant data. Future Phase 2 parking provides a total of 189 spaces and exceeds County parking requirements for Phases 2 and 3.

Contractor shall be responsible for locating and uncovering all manholes after paving. Manhole tops shall be adjusted to grade

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

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.

SEWER NOTES

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.

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.

Water main shall be minimum Class 52 Ductile Iron in accordance Availability number: 05-326\(\mathcal{D}\)

	LEGEND	÷			
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enterline		<u> —́с</u> —	<u> </u>		
inimum Building Line		M.B.L.	<u> </u>	· ·	
xisting Storm Sewer	=====8" S.D . ==		≕8" S.D.		
xisting Sanitary Sewer	====8" SAN .		≔8" SAN 		
xisting Water Main	4" W	_	—4" ₩—	· 	
xisting Contour		-1 045			
roposed Contour		1 04 5	<u> </u>	<u> </u>	
roposed Drainage Divide			\leftarrow	•	
roposed Limits of Clearing		- 49			
roposed Storm Sewer	24" S.D.				
roposed Sanitary Sewer	8	" M.H		·	
roposed Water Main					

roposea water main HYDRANK-VALVE