GENERAL NOTES

PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT:

- 1. All construction methods and materials shall conform to the Construction Standards and Specifications of Roanoke County, the Western Virginia Water Authority, and the Virginia Department of Transportation.
- 2. Stormwater Management Agreements with an attached 8 1/2" x 11" or 8 1/2" x 14" plat must be approved and recorded prior to the pre-construction meeting.
- 3. Once all required items are submitted to the County of Roanoke, the developer must contact the Development Review Coordinator to Indicate that a pre-construction meeting needs to be scheduled. The pre-construction meeting will be scheduled with the owner/developer two (2) working days later.
- 4. Please note the 2001 General Assembly revisions to VA Erosion and Sediment Control Law. Effective July 1, 2001, all land disturbing projects that require approval of an erosion and sediment control plan, grading or clearing permit shall require that the applicant provide the name of an individual who will be responsible for land disturbing activities and that this individual hold a Responsible Land Disturber (RLD) Certificate from the Department of Conservation and Recreation. The Responsible Land Disturber can be anyone from the Project team that is certified by the State of Virginia to be in charge of carrying out the land disturbing activity for the project.
- 5. It is the responsibility of the owner/developer to notify the certified Responsible Land Disturber and the Utility Contractor to attend the pre-construction meeting.
- 6. The Development Review Coordinator will schedule the pre-construction meeting with the County Review Engineer, the County Inspector, and the Western Virginia Water Authority and the Town of Vinton Public Works Department if applicable.
- 7. An approved set of plans and all permits must be available at the construction site at all times.
- 8. 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.
- 9. The project engineer will inform the owner/developer verbally and in writing of the County's obligation to perform inspections on site. Everyone in the meeting will be required to sign a pre-construction checklist indicating their knowledge of Roanoke County's obligation to perform inspections on site.
- 10. The Erosion Control Permit is given to the developer at this pre-construction meeting.
- 11. The developer MUST contact the project inspector 24 hours before beginning any grading or construction on the property.
- 12. The project inspector will visit the site within 48 hours of the developer's call to ensure that all necessary erosion and sediment control measures are properly installed according to the approved plan.
- 13. All work shall be subject to inspection by Roanoke County, the Western Virginia Water Authority and the Virginia Department of Transportation Inspectors.
- 14. 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.
- 15. 100 year Floodway and Floodplain information shall be shown where applicable. FIRM Index Date shall be shown on the plans. The 100 year Floodway shall be staked prior to any construction.
- 16. Grade stakes shall be set for all curb and gutter, culvert, sanitary sewer and storm sewer at all times of construction.
- 17. The Department of Community Development shall be notified when a spring is encountered during construction.
- 18. Construction debris shall be containerized in accordance with the Virginia Litter Control Act. No less than one litter receptacle shall be provided on site.
- 19. The contractor shall provide adequate means of cleaning mud from trucks and/or other equipment prior to entering public streets or rights of ways. It is the contractors responsibility to insure that the streets are in a clean, mud and dust free condition at all times.
- 20. Plan approval in no way relieves the developer or contractors of the responsibilities contained within the erosion and sediment control policies.
- 21. Field construction shall honor proposed drainage divides as shown on plans.
- 22. Field corrections shall be approved by the Roanoke County Engineering Division and/or the Western Virginia Water Authority and the Professional of Record. prior to such construction.
- 23. The developer or contractor shall supply the County and the Western Virginia Water Authority with correct As-Built plans before final acceptance.

VIRGINIA DEPARTMENT OF TRANSPORTATION:

- 24. Plan approval by Roanoke County does not guarantee issuance of any permits by the Virginia Department of Transportation.
- 25. A permit must be obtained from the Virginia Department of Transportation, Salem Residency Office prior to construction in the highway right-of-way.
- 26. The preliminary pavement designs should be based on a predicted sub-grade CBR value of 7.0 and with a Resiliency Factor (RF) of 2.0 as shown in Appendix I of the 2000 Virginia Department of Transportation Pavement Design Guide for Subdivision and Secondary Roads. The sub-grade soil is to be tested by an independent laboratory and the results submitted to the Virginia Department of Transportation prior to base construction. Should the sub-grade CBR value and/or the RF value be less than the predicted values, additional base material will be required in accordance with Departmental specifications. Refer to the same manual as the number and locations of the required soil samples to be tested. All pavement designs shall be submitted to the Department for review and approval. The sub-grade shall be approved by the Virginia Department of Transportation prior to placement of the base. Base shall be approved by the Virginia Department of Transportation for
- 27. Standard guardrail with safety end sections may be required on fills or in areas where hazards exist as deemed necessary. After completion of rough grading operations, the County Engineer and Virginia Department of Transportation shall be contacted to schedule a field review. Where guard rail is warranted, the standard shoulder width shall be provided and the guard rail shall be installed in accordance with the 2001 VDOT Road and Bridge Standards as part of this development.

depth, template, and compaction before the surface is applied.

- 28. Standard street and traffic control signs shall be erected at each intersection by the developer prior to final street acceptance.
- 29. All traffic devices shall be in accordance with current edition of the manual: "Uniform Traffic Control Devices (MUTCD)"
- 30. All unsuitable material shall be removed from the construction limits of the roadway before placing embankment.

The Project Engineer shall provide electronic copies of the approved plans to the Development Review Coordinator within 5 working days of the pre-construction meeting. This sheet may not be modified.



County of Roanoke, VA

NAME OF DEVELOPMENT	BUCKLAND SOUTH SUBDIVISION	ON	OWNER/DEVELOPER, AM AWARE OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN AND OTHER APPLICABLE ROANOKE COUNTY CODES. I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THESE REQUIREMENTS			
MAGISTERIAL DISTRICT(S)	HOLLINS		AND THE THIRTY (30) POINTS SHOWN ON THIS COVER SHEET UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.			
OWNER(S)	NICHOLAS G PALMIERI JR 6456 NORTH BARRENS RD ROANOKE, VA 24019					
DEVELOPER	PARSELL AND ZIEGLER 112 KIRK AVE. ROANOKE, VA 24011	CONTACT: DANNY DeWITT				
ENGINEER AND SURVEYOR:	PARKER DESIGN GROUP 816 BOULEVARD SALEM, VA 540-387-1153	CONTACT: SIMON L. RUTROUGH				
TAX MAP NO(S) 026,08-03-0	8.01 AND 026.08-03-09.00					

WATER NOTES

All water facilities shall be installed according to the Western Virginia Regional 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

All existing utilities may not be shown in their exact location. The contractor shall comply with the (State Water Works

Regulations, Section 12VAC5-590-1150, where lines cross.)

vaults after paving and adjustment to final grade if necessary.

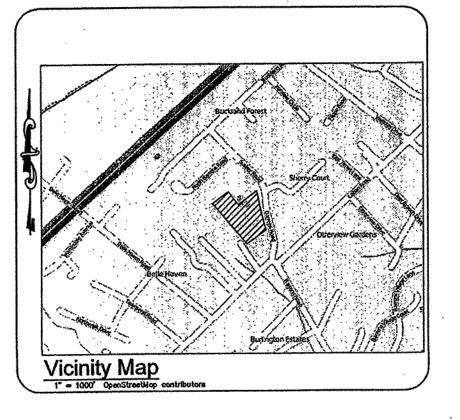
All trenches in existing or future highway right-of-ways shall be compacted according to Virginia Department of Transportation standards.

Lines shall be staked prior to construction.

Water main shall be minimum Class 350 Ductile Iron in accordance to AWWA C151 or DR-14 PVC in accordance with AWWA C-900.

Ductile Iron Pipe in accordance with the Western Virginia Water Authority Design and Construction Standards shall be required for all pipe with a working pressure equal to or greater than 100 p.s.i.

Western Virginia Water Authority Availability letter number:



LEGEND

roperty Line	
ight-of-way	R/W
enterline	CL
linimum Building Line	
xisting Storm Sewer	
xisting Sanitary Sewer	SAN SAN
xisting Water Main	W
xisting Contour	
roposed Contour	1048
roposed Drainage Divide	
roposed Limits of Clearing	LIMLIM
roposed Storm Sewer	
roposed Sanitary Sewer	8" M.H.
roposed Water Main	HYDRANT VALVE BLOWOFF

SEWER NOTES

All sanitary sewer facilities shall be installed according to the Western Virginia Regional Design and Construction Standards. (Latest Edition).

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 in their exact location. The contractor shall comply with (State Water Works Regulations, Section 12VAC5-590-1150, where lines cross.)

All trenches in existing or future rights-of-way shall be compacted according to Virginia Department of Transportation standards.

Lines shall be staked prior to construction.

PRIVATE UTILITIES

Underground utilities installed on private property or in private utility easements and building related storm drains shall be designed and installed per the current edition of the Virginia Uniform Statewide Building Code. Design and installation requirements issued by the Western Virginia Water Authority that meet or exceed the USBC requirements are acceptable for private utilities. All private utilities are to be permitted through and inspected by the Roanoke County Inspections Office. Vaults, valves and other devices installed by or under the control of the Western Virginia Water Authority may not substituted for the code required devices.

		ion 2 as-built 01/19/2017) {Section1 as-built 07/27/201	3
		ROANOKE COUNTY COVER SHEET	
	C01		
	(C02)	GENERAL NOTES	
	C03	SECTION 1 EXISTING CONDITIONS, DEMOLITION & INITIAL ESC PLAN	
	C04	SECTION 1 DIMENSION & UTILITY PLAN	
1	C05	SECTION 1 GRADING & EROSION & SEDIMENT CONTROL PLAN	
	Ç06	SECTION 1 EXISTING CONDITIONS, DEMOLITION & INITIAL ESC PLAN	
	COD	SECTION 2 DIMENSION & UTILITY PLAN	
	C08	SECTION LGRADING & EROSION & SEDIMENT CONTROL PLAN	
	C09	EROSION & SEDIMENT CONTROL NARRATIVE	
	C10	EROSION & SEDIMENT CONTROL DETAILS	
	C11	SEDIMENT BASIN - SWM POND DETAILS	
	C12	SECTION 1 SANITARY SEWER PROFILES	
	C13	SECTION 2 ROAD, SANITARY SEWER, AND UTILITY PROFILES	
	C14	STORM WATER PROFILES	
	C15	SANITARY SEWER & WATER DETAIL SHEET 1	
	C16	SANITARY SEWER & WATER DETAIL SHEET 2	
	TMP1		
	TMP2		
	P-1	SUBDIVISION PLAT PGS 1-2	
	P-2		
	P-2	SUBDIVISION PLAT PGS 3-4	
	(<u>Index</u>	

SURVEY INFORMATION

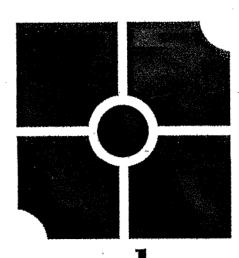
Horiz	ntal and vertical control surveys were performed in year:	
Ву:_	PARKER DESIGN GROUP	
	ical elevations must be referenced to the National Geodetic Vertical Datum of 1929 or zontal elevations must be referenced to the North American Datum of 1927 or 1983.	1988.
Soul	e of topographic mapping is datedFEBRUARY 27, 2014	
Bou	ary was performed by: PARKER DESIGN GROUP	
Bene	mark Information; ELEVATIONS FROM GPS ESTABLISHED (NAVD'88)	
	CHMARK #106: TOP OF IRON ROD FOUND. ELEVATION: 1160.19	
	CHMARK #307: BRIDGE SPIKE DRIVEN IN PAVEMENT. ELEVATION: 1189.37	

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

ITEM					
	QUANTITY	UNIT	UNIT PRICE	COST	BONDABLE
SECTION 1:					
CLEARING AND GRUBBING .	1.1	ACRES	\$5,000:00	\$5,500.00	
EXCAVATION	6,000	C.Y.	\$6.00	\$36,000.00	· · · · · · · · · · · · · · · · · · ·
			***	4 0 040 00	
15 -IN. ALUMINIZED CULVERT (ALT-2)	102	LIN. FT.	\$20.00	\$ 2,040.00	
PAVED DITCH VDOT PG-4	40	LIN. FT.	\$30.00	\$1,200.00	
·					·
8" C-900 WATER LINE	155	LIN. FT.	\$25.00	\$ 3,875,00	
FIRE HYDRANT ASSEMBLIES	1	EACH	\$2,000.00	\$ 2,000.00	
DOUBLE RESIDENTIAL WATER SERVICE W-04	4	EACH	\$1,000.00	\$ 4,000.00	
8" GATE VALVES, W/VAULT, FRAME & COVER	11	EACH	\$750.00	\$ 750.00	
8" TEMPORARY BLOW-OFF VALVE, W/VAULT, FRAME & COVER		EACH EACH	\$1,000.00	\$ 1,000.00 \$ 1,500.00	
8" TAPPING SLEEVE/GATE VALVE, W/VAULT, FRAME & COVER JACK & BORE	30	LIN. FT.	\$1,500.00 \$75.00	\$ 2,250.00	
JACK & BOKE	30	hall to 1 4	Ψιοισ	/ 2,200.00	
8" PVC SDR35 - SANITARY SEWER	1,050	LIN. FT.	\$25.00	\$ 26,250.00	
6" PVC SDR35 - SANITARY SEWER	174	LIN. FT.	\$20.00	\$ 3,480.00	
4" PVC SDR35 - SANITARY SEWER	96	LIN. FT.	\$17.00	\$ 1,632.00	
SANITARY SEWER LATERAL	4	EACH	\$1,000.00	\$ 4,000.00	
DOUBLE SANITARY SEWER LATERAL	1	EACH	\$1,500.00	\$1,500.00	
STANDARD MANHOLE W/FRAME & COVER	4	EACH	\$2,000.00	\$8,000.00	
72" Ø INSIDE DROP MANHOLE (2 DROPS)	1	EACH	\$4,000.00	\$4,000.00	
CORE NEW INVERT IN EXISTING MANHOLE	1	EACH	\$1,000.00	\$1,000.00	
TEMPORARY TRAFFIC CONTROL SIGNS	1	LUMP SUM	\$5,000.00	\$5,000.00	
SANITARY SEWER AS-BUILT PLANS	1	LUMP SUM	\$750.00	\$750.00	
Ţ,			•		
SUBTOTAL				\$115,727.00	
10% CONTINGENCY				\$11,573.00	
ESTIMATED TOTAL (SECTION 1)				\$127,300.00	
ESTIMATED TOTAL (SECTION I)				, ,	
		· · · · · · · · · · · · · · · · · · ·			
SECTION 2:		ACDEO	* 5 000 00	\$2,000,00	
CLEARING AND GRUBBING	2,000	ACRES C.Y.	\$5,000.00 \$6.00	\$2,000.00 \$12,000.00	
EXCAVATION EMBANKMENT	2,000	C.Y.	\$0.00	\$12,000.00	
EMONANIEN		0.11			
48" Ø BASE W/ SWM-1 TOP	1	EACH	\$3,500.00	\$3,500.00	
48" Ø BASE W/ CURB INLET DI-3	6	EACH	\$3,000.00	\$18,000.00	
60" Ø BASE W/ CURB INLET DI-3	1	EACH	\$4,000.00	\$4,000.00	·
48" Ø BASE W/ DI-7, TYPE III GRATE TOP	1	EACH	\$2,500.00	\$2,500.00	
MANHOLE MH-MH2 (60" Ø)	11	EACH	\$3,000.00	\$3,000.00	
				A 5 000 00	
15 -IN. H.D.P.E. (N-12)	280 96	LIN. FT.	\$20.00 \$25,00	\$ 5,600.00 \$ 2,400.00	
18 -IN. H.D.P.E. (N-12) 24 -IN. H.D.P.E. (N-12)	356	LIN. FT.	\$30.00	\$ 10,680.00	
24 -IN. CONCRETE PIPE, CLASS III	49	LIN. FT.	\$35.00	\$ 1,715.00	
					7.
CURB & GUTTER CG-6	1,700	LIN. FT.	\$20.00	1	
			1	\$34,000.00	
2 -IN, BIT, CONC.: TYPE SM 9.5A	320	TON	\$100.00	\$34,000.00 \$32,000.00	
2 -IN, BIT, CONC.: TYPE SM 9.5A 8 -IN, VDOT 21-B AGGREGATE SUB-BASE	320 1,050	TON TON	\$100.00 \$15.00	 	
				\$32,000.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE	1,050	TON	\$15.00	\$32,000.00 \$15,750.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE	1,050	TON	\$15.00 \$25.00	\$32,000.00 \$15,750.00 \$17,375.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES	1,050 695 2	TON LIN. FT. EACH	\$15.00 \$25.00 \$2,000.00	\$32,000.00 \$15,750.00 \$17,375.00 \$4,000.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE	1,050	TON	\$15.00 \$25.00	\$32,000.00 \$15,750.00 \$17,375.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01	1,050 695 2 8	LIN. FT. EACH EACH	\$15.00 \$25.00 \$2,000.00 \$750.00	\$32,000.00 \$15,750.00 \$17,375.00 \$4,000.00 \$6,000.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04	1,050 695 2 8 7	LIN. FT. EACH EACH EACH	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00	\$32,000.00 \$15,750.00 \$17,375.00 \$4,000.00 \$6,000.00 \$7,000.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04 8" GATE VALVES, W/VAULT, FRAME & COVER	1,050 695 2 8 7	LIN. FT. EACH EACH EACH EACH	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00 \$750.00	\$32,000.00 \$15,750.00 \$17,375.00 \$4,000.00 \$6,000.00 \$7,000.00 \$1,500.00	
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8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04 8" GATE VALVES, W/VAULT, FRAME & COVER 8" BLOW-OFF VALVE, W/VAULT, FRAME & COVER 8" PVC SDR35 - SANITARY SEWER SANITARY SEWER LATERAL	1,050 695 2 8 7 2 1	LIN. FT. EACH EACH EACH EACH LIN. FT. EACH	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00 \$1,000.00 \$25.00 \$1,000.00	\$32,000.00 \$15,750.00 \$ 17,375.00 \$ 4,000.00 \$ 6,000.00 \$ 7,000.00 \$ 1,500.00 \$ 17,500.00 \$ 17,500.00	
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8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04 8" GATE VALVES, W/VAULT, FRAME & COVER 8" BLOW-OFF VALVE, W/VAULT, FRAME & COVER 8" PVC SDR35 - SANITARY SEWER SANITARY SEWER LATERAL DOUBLE SANITARY SEWER LATERAL STANDARD MANHOLE W/FRAME & COVER AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC)	1,050 695 2 8 7 2 1	LIN. FT. EACH EACH EACH EACH LIN. FT. EACH LIN. FT. EACH LIN. FT.	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00	\$32,000.00 \$15,750.00 \$ 17,375.00 \$ 4,000.00 \$ 6,000.00 \$ 7,000.00 \$ 1,500.00 \$ 17,500.00 \$ 8,000.00 \$ 8,000.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04 8" GATE VALVES, W/VAULT, FRAME & COVER 8" BLOW-OFF VALVE, W/VAULT, FRAME & COVER 8" PVC SDR35 - SANITARY SEWER SANITARY SEWER LATERAL DOUBLE SANITARY SEWER LATERAL STANDARD MANHOLE W/FRAME & COVER AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC) LANDSCAPING	1,050 695 2 8 7 2 1 700 8 8 5	LIN. FT. EACH EACH EACH EACH LIN. FT. EACH EACH LUMP SUM LUMP SUM	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,500.00 \$2,000.00	\$32,000.00 \$15,750.00 \$15,750.00 \$4,000.00 \$6,000.00 \$7,000.00 \$1,500.00 \$17,500.00 \$12,000.00 \$12,000.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04 8" GATE VALVES, W/VAULT, FRAME & COVER 8" BLOW-OFF VALVE, W/VAULT, FRAME & COVER 8" PVC SDR35 - SANITARY SEWER SANITARY SEWER LATERAL DOUBLE SANITARY SEWER LATERAL STANDARD MANHOLE W/FRAME & COVER AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC) LANDSCAPING STORM AS-BUILT PLANS	1,050 695 2 8 7 2 1 700 8 8 5	LIN. FT. EACH EACH EACH EACH EACH LIN. FT. EACH LIN. FT. EACH LUMP SUM LUMP SUM	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,500.00 \$1,500.00	\$32,000.00 \$15,750.00 \$17,375.00 \$4,000.00 \$6,000.00 \$7,000.00 \$1,500.00 \$17,500.00 \$10,000.00 \$10,000.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04 8" GATE VALVES, W/VAULT, FRAME & COVER 8" BLOW-OFF VALVE, W/VAULT, FRAME & COVER 8" PVC SDR35 - SANITARY SEWER SANITARY SEWER LATERAL DOUBLE SANITARY SEWER LATERAL STANDARD MANHOLE W/FRAME & COVER AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC) LANDSCAPING STORM AS-BUILT PLANS STORMWATER MANAGMENT/BMP AS-BUILT PLANS SANITARY SEWER AS-BUILT PLANS	1,050 695 2 8 7 2 1 700 8 8 5	LIN. FT. EACH EACH EACH EACH LIN. FT. EACH EACH LIN. FT. EACH EACH LUMP SUM LUMP SUM LUMP SUM	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,500.00 \$2,000.00 \$2,000.00	\$32,000.00 \$15,750.00 \$17,375.00 \$4,000.00 \$6,000.00 \$1,500.00 \$1,500.00 \$17,500.00 \$10,000.00 \$11,500.00 \$10,000.00 \$10,000.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04 8" GATE VALVES, W/VAULT, FRAME & COVER 8" BLOW-OFF VALVE, W/VAULT, FRAME & COVER 8" PVC SDR35 - SANITARY SEWER SANITARY SEWER LATERAL DOUBLE SANITARY SEWER LATERAL STANDARD MANHOLE W/FRAME & COVER AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC) LANDSCAPING STORM AS-BUILT PLANS STORMWATER MANAGMENT/BMP AS-BUILT PLANS SANITARY SEWER AS-BUILT PLANS	1,050 695 2 8 7 2 1 700 8 8 5	LIN. FT. EACH EACH EACH EACH LIN. FT. EACH EACH LIN. FT. EACH EACH LUMP SUM LUMP SUM LUMP SUM	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,500.00 \$2,000.00 \$2,000.00	\$32,000.00 \$15,750.00 \$17,375.00 \$4,000.00 \$6,000.00 \$7,000.00 \$1,500.00 \$17,500.00 \$17,500.00 \$10,000.00 \$10,000.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04 8" GATE VALVES, W/VAULT, FRAME & COVER 8" BLOW-OFF VALVE, W/VAULT, FRAME & COVER 8" PVC SDR35 - SANITARY SEWER SANITARY SEWER LATERAL DOUBLE SANITARY SEWER LATERAL STANDARD MANHOLE W/FRAME & COVER AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC) LANDSCAPING STORM AS-BUILT PLANS STORMWATER MANAGMENT/BMP AS-BUILT PLANS SANITARY SEWER AS-BUILT PLANS	1,050 695 2 8 7 2 1 700 8 8 5	LIN. FT. EACH EACH EACH EACH LIN. FT. EACH EACH LIN. FT. EACH EACH LUMP SUM LUMP SUM LUMP SUM	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,500.00 \$2,000.00 \$2,000.00	\$32,000.00 \$15,750.00 \$17,375.00 \$4,000.00 \$6,000.00 \$1,500.00 \$1,500.00 \$17,500.00 \$10,000.00 \$11,500.00 \$10,000.00 \$10,000.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04 8" GATE VALVES, W/VAULT, FRAME & COVER 8" BLOW-OFF VALVE, W/VAULT, FRAME & COVER 8" PVC SDR35 - SANITARY SEWER SANITARY SEWER LATERAL DOUBLE SANITARY SEWER LATERAL STANDARD MANHOLE W/FRAME & COVER AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC) LANDSCAPING STORM AS-BUILT PLANS STORMWATER MANAGMENT/BMP AS-BUILT PLANS SANITARY SEWER AS-BUILT PLANS	1,050 695 2 8 7 2 1 700 8 8 5	LIN. FT. EACH EACH EACH EACH LIN. FT. EACH EACH LIN. FT. EACH EACH LUMP SUM LUMP SUM LUMP SUM	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,500.00 \$2,000.00 \$2,000.00	\$32,000.00 \$15,750.00 \$17,375.00 \$4,000.00 \$6,000.00 \$7,000.00 \$1,500.00 \$17,500.00 \$17,500.00 \$10,000.00 \$10,000.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00	
8 -IN. VDOT 21-B AGGREGATE SUB-BASE 8" C-900 WATER LINE FIRE HYDRANT ASSEMBLIES SINGLE RESIDENTIAL WATER SERVICE W-01 DOUBLE RESIDENTIAL WATER SERVICE W-04 8" GATE VALVES, W/VAULT, FRAME & COVER 8" BLOW-OFF VALVE, W/VAULT, FRAME & COVER 8" PVC SDR35 - SANITARY SEWER SANITARY SEWER LATERAL DOUBLE SANITARY SEWER LATERAL STANDARD MANHOLE W/FRAME & COVER AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC) LANDSCAPING STORM AS-BUILT PLANS STORMWATER MANAGMENT/BMP AS-BUILT PLANS SANITARY SEWER AS-BUILT PLANS SUBTOTAL 10% CONTINGENCY	1,050 695 2 8 7 2 1 700 8 8 5	LIN. FT. EACH EACH EACH EACH LIN. FT. EACH EACH LIN. FT. EACH EACH LUMP SUM LUMP SUM LUMP SUM	\$15.00 \$25.00 \$2,000.00 \$750.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,500.00 \$2,000.00 \$2,000.00	\$32,000.00 \$15,750.00 \$17,375.00 \$4,000.00 \$6,000.00 \$1,500.00 \$1,500.00 \$17,500.00 \$10,000.00 \$10,000.00 \$2,500.00 \$234,270.00 \$23,427.00	

HEREBY CERTIFY THAT THE FOREGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.

QUANTITY & COST ESTIMATE



DESIGN GROUP

816 Boulevard Salem, Virginia 24153 Phone: 540-387-1153 Fax: 540-389-5767 www.parkerdg.com

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DGF/PJE DGF/PJE as shown 11 April 2014

SHEET TITLE:

DESIGNED BY:

DRAWN BY:

CHECKED BY

COVER SHEET

PROJECT NUMBER: 13-0087-03

SHEET

MARIE SINK 1-19-17

AS-Builts

CONTIACTORS

SIMON L. RUTROUGH Lic. No. 050774 a 10/15/2014 WOTOWAT, ENG

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