

GENERAL NOTES

PRE-CONSTRUCTION MEETING AND CONSTRUCTION COMMENCEMENT

- 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.
- Stormwater Management Agreements with an attached 8'12" x 11" or 8'12" x 14" plat must be approved and recorded prior to the pre-construction meeting.
- 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.
- 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 Environmental Quality. The Responsible Land Disturber can be anyone from the Project team that is certified by the Commonwealth of Virginia to be in charge of carrying out the land disturbing activity for the project.

- 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.
- 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.
- An approved set of plans, Storm Water Pollution Prevention Plan (SWPPP), VSPMP coverage letter, and all permits must be available at the construction site 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.
- 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.

- The Erosion Control Permit or Combined Erosion Control & VSPMP Permit is given to the developer at this pre-construction meeting.
- Notify the County of Roanoke prior to beginning installation of ESC measures. The County will inspect initial installations to ensure compliance with approved plan prior to start of grading. The developer SHALL contact the project inspector 24 hours before beginning any grading or construction on the property.
- County inspectors must inspect storm drain / stormwater management / BMP installations during the process of installation. Please contact the site inspector 24 hours in advance.

- All work shall be subject to inspection by Roanoke County, the Western Virginia Water Authority and the Virginia Department of Transportation Inspectors.
- 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 "Miss Utility", 1-800-552-7001 or VA 811.
- The 100 year Floodway shall be stated prior to any construction.
- Grade stakes shall be set for all curb and gutter, culvert, sanitary sewer and storm sewer at all times of construction.
- The Department of Community Development shall be notified when a spring is encountered during construction.
- 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 equipment prior to entering public streets or rights of ways. It is the contractor's responsibility to insure that the streets are in a clean, mud and dust free condition at all times.
- Plan approval in no way releases the developer or contractors of the responsibilities contained within the erosion and sediment control or stormwater management policies.
- Field construction shall honor proposed drainage divides as shown on plans.
- 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.
- 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
Plan approval by Roanoke County does not guarantee issuance of any permits by the Virginia Department of Transportation.

- A permit must be obtained from the Virginia Department of Transportation, Salem Residency Office prior to construction in the highway right-of-way.
- 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 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 depth, template, and compaction before the surface is applied.

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

See Sheet **G-100** for Stormwater Site Statistics Table.
See Sheet **G-101** for New BMP Information Table.

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.

The notes on this sheet shall not be modified.



NAME OF DEVELOPMENT	AEP BROOK TROUT PROJECT (USE COMMERCIAL)	OWNER/DEVELOPER <i>Riviera Hassan</i> 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 AND THE THIRTY (30) POINTS SHOWN ON THIS COVER SHEET UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.
MAGISTERIAL DISTRICT(S)	CATAWBA	
OWNER (name, address, telephone)	APPALACHIAN POWER COMPANY, 1 RIVERSIDE PLAZA, COLUMBUS, OH 43215	
DEVELOPER (name, address, telephone)	APPALACHIAN POWER COMPANY, 1 RIVERSIDE PLAZA, COLUMBUS, OH 43215	
ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone)	DLS ASSOCIATES, 265 INDUSTRIAL WAY WEST, EATONTOWN, NJ 07724 (732) 927-5114	
TAX MAP NO(S)	054-00-01-02-03-0000	

WATER NOTES

All water facilities shall be constructed 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 water vaults after paving and adjustment to final grade if necessary.

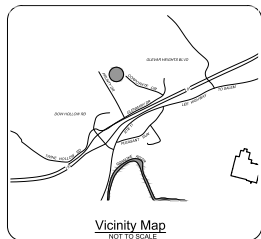
All existing utilities may not be shown in their exact location. The contractor shall comply with the (State Water Works Regulations, Section 12VAC5-590-1150, where lines cross.

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

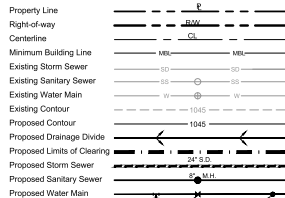
Lines shall be staked prior to construction.
Water main shall be minimum Class 350 Ductile Iron in accordance to AWWA C151 or DR-14 PVC in accordance with AWWA C-900.

Ductile Iron Pipe in accordance with the Western Virginia Regional 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



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 if necessary.

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 highway right-of-ways 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 structures 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.

- G-101 - COVER SHEET
- G-102 - GENERAL NOTES
- G-103 - EROSION & SEDIMENT CONTROL NOTES
- G-104 - EAS NOTES
- V-101 - TOPOGRAPHIC SURVEY
- C-101 - OVERALL SITE LAYOUT
- C-102 - EROSION AND SEDIMENT CONTROL STAGE 1 & 2
- C-103 - EROSION AND SEDIMENT CONTROL STAGE 3 & 4
- C-104 - SITE AND UTILITY PLAN
- C-105 - ENTRANCE GATE DETAILS
- C-106 - GRADING AND DRAINAGE PLAN
- C-107 - SPOT ELEVATION PLAN
- C-301 - STORMWATER PROFILES
- C-302 - WATER & SANITARY SEWER PROFILE
- C-501 - EROSION & SEDIMENT CONTROL DETAILS
- C-502 - EROSION & SEDIMENT CONTROL DETAILS
- C-503 - SITE DETAILS
- C-504 - SITE DETAILS
- C-505 - STORM DETAILS
- C-506 - WATER DETAILS
- C-701 - DRAINAGE MAPS AND CALCULATIONS
- C-702 - INLET AREA MAP
- C-703 - STORMWATER DETAILS
- C-704 - ADS BAY FILTER
- L-101 - LANDSCAPE PLAN

Sheet Index

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in year: 2018

By: **HAUT & PROFFITT**

At vertical elevations must be referenced to the National Geodetic Vertical Datum of 1929 or 1988. All horizontal elevations must be referenced to the North American Datum of 1927 or 1983.

Horizontal Datum: **NAD83**

Vertical Datum: **NAVD83**

Source of topographic mapping is dated: **SEPTEMBER 2019**

Boundary was performed by **HAUT & PROFFITT** dated: **NOVEMBER 2018**

Benchmark Information: **BENCHMARK SET CHIEFEN SQUARE ON CORNER DROP**

INLET ELEVATION = 1586.47'

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

QUANTITY & COST ESTIMATE

ITEM	QUANTITY	UNIT	UNIT PRICE	COST	REMARKS
CLEARING AND GRUBBING	11.6	AC	12,000.00	139,200.00	139,200.00
EXCAVATION	75,000	C.Y.	14.00	1,050,000.00	1,050,000.00
EMBANKMENT	6,500	C.Y.	14.00	91,000.00	91,000.00
CURB INLET DI-1	1	EA	4,200.00	4,200.00	
CURB INLET DI-3C	9	EA	4,200.00	37,800.00	37,800.00
CURB INLET DI-3C	1	EA	4,200.00	4,200.00	4,200.00
CURB INLET DI-2B	1	EA	4,200.00	4,200.00	4,200.00
MANHOLE MH-1	8	EA	3,000.00	24,000.00	24,000.00
MANHOLE MH-		EA			
12-IN. HDPE PIPE, N-12	300	LF	30.00	9,000.00	9,000.00
18-IN. HDPE PIPE, N-12	375	LF	40.00	15,000.00	15,000.00
18-IN. HDPE PIPE, N-12	805	LF	50.00	40,250.00	40,250.00
24-IN. HDPE PIPE, N-12	380	LF	65.00	24,700.00	24,700.00
24-IN. CONCRETE PIPE, CLASS III	250	LF	65.00	16,250.00	16,250.00
30-IN. CONCRETE PIPE, CLASS III	130	LF	98.00	12,740.00	12,740.00
IN. C.M. CULVERT		LF			
BOX CULVERT		LS			
PAVED DWALE		LF			
RIPRAP - CLASS 1A	25	TN	100.00	2,500.00	2,500.00
PERMANENT GRASS SWALE (SCC)	960	LF	5.00	4,800.00	4,800.00
18-IN. CONCRETE ENDWALL, EW-1	1	EA	1575.00	1575.00	1575.00
24-IN. CONCRETE ENDWALL, EW-1	3	EA	1575.00	4,725.00	4,725.00
30-IN. CONCRETE ENDWALL, EW-1	1	EA	1575.00	1575.00	1575.00
IN. END SECTION EG-		EA			
HEADER CURB & GUTTER, CG-		LF			
24" CURB & GUTTER	5,700	LF	35.00	199,500.00	199,500.00
36" VALLEY GUTTER	70	EA	35.00	2,450.00	2,450.00
GRAVEL BASE	1,270	SY	23.00	29,210.00	29,210.00
GRAVEL SHOULDER		SY			
SURFACE TREATMENT 2-IN. VDOT Type BM-5A	10,445	SY	10.00	104,450.00	104,450.00
3-IN. BIT. CONC. TYPE BM-25.0	7,110	SY	17.00	120,870.00	120,870.00
8-IN. BASE MATERIAL, VDOT TYPE 1, 21A OR 21B	1,200	C.Y.	75.00	90,000.00	90,000.00
8-IN. BASE MATERIAL, VDOT TYPE 1, 21A OR 21B	800	C.Y.	75.00	60,000.00	60,000.00
IN. SUBBASE MATERIAL		C.Y.			
TRAFFIC BARRICADE		EA			
12" WATERLINE DIP	800	LF	55.00	33,000.00	33,000.00
4" WATERLINE PVC	1,100	LF	25.00	27,500.00	27,500.00
FIRE HYDRANT ASSEMBLIES	2	EA	2,800.00	5,600.00	5,600.00
BLOW OFFS W/ VAULT, FRAME & COVER	1	EA	1,100.00	1,100.00	1,100.00
IN. GATE VALVES, W/ VAULT, FRAME & COVER	1	EA	1,100.00	1,100.00	1,100.00
IN. GATE VALVES, W/ VAULT, FRAME & COVER	1	EA	1,100.00	1,100.00	1,100.00
FIRE SERVICE VAULT	1	EA	15,000.00	15,000.00	15,000.00
6" SANITARY SEWER SDP-10	460	LF	22.00	10,120.00	10,120.00
STANDARD MANHOLE W/ FRAME & COVER	3	EA	300.00	900.00	900.00
SAMPLING MANHOLE/PORT		EA			
LANDSCAPING	1	LS	50,000.00	50,000.00	50,000.00
AMENITIES (INCLUDING BUT NOT LIMITED TO TRAILS, ETC.)		LS			
STORMWATER MANAGEMENT (BAY/FILTER)	1	LS	35,000.00	35,000.00	35,000.00
AS-BUILT PLANS (STORM SEWER SYSTEMS)	1	LS	25,000.00	25,000.00	25,000.00
AS-BUILT PLANS (STORMWATER MANAGEMENT)	1	LS	10,000.00	10,000.00	10,000.00
SUB-TOTAL				2,308,899.00	2,308,899.00
10% CONTINGENCY				230,889.90	230,889.90
ESTIMATED TOTAL				2,539,788.90	2,539,788.90
BY SEALING THE PLANS, THE DESIGN PROFESSIONAL HEREBY CERTIFIES THAT THE FOREGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.					

MEP ENGINEER:



CONSULTING ENGINEERS, P.C.

Dan Dyer
1733 107-5086
DDyer@USA.com

ARCHITECT:



AXO
HERRING TROWBRIDGE
ARCHITECTS
690 CENTER ST. SUITE 300
HERNDON, VIRGINIA 20170
TELEPHONE: 703.742.4074
EMAIL: HTARCH.COM

CIVIL CONSULTANT:
HAUT & PROFFITT
INSPIRED / RESPONSIBLE / TRUSTED
424-847-7788
1000 COMMONWEALTH BLVD., SUITE 200
FALLS CHURCH, VA 22046
STRUCTURAL / BMP CONSULTANT

STRUCTURAL CONSULTANT:



CRISMAN ENGINEERS
3603 Piedmont Ave., Ste. 500
Baltimore, MD 21203
Tel: 800.387.2609

REVIEW COMMENTS: 11/17/2020

PLAN APPROVED
Dennis J. Smith

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REVIEW COMMENTS: 11/17/2020

PLAN APPROVED
Dennis J. Smith

SIGNATURE SET

PLAN APPROVED
Dennis J. Smith

New Facility for
AEP PROJECT
BROOK TROUT
CORPORATE CIRCLE
SALEM, Virginia

SHEET
G-101