COUNTY OF ROANOKE, VA

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 Roanoke County, 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. 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.
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, Storm Water Pollution Prevention Plan (SWPPP), VSMP coverage letter, 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 or Combined Erosion Control & VSMP Permit is given to the developer at this pre-construction meeting.
11. Notify Roanoke County 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.
12. County Inspectors must inspect storm drain / stormwater management / BMP installations during the process of installation. Please contact the site inspector 24 hours in advance.
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 or VA 811.
15. 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. Roanoke County 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 or stormwater management policies.
21. Field construction shall honor proposed drainage divides as shown on plans.
22. Field corrections shall be approved by the Roanoke County 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:

1. Plan approval by Roanoke County does not guarantee issuance of any permits by the Virginia Department of Transportation.
2. A permit must be obtained from the Virginia Department of Transportation, Salem Residency Office prior to construction in the highway right-of-way.
3. 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 the current edition of the 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 depth, template, and compaction before the surface is applied.
4. 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 current edition of the VDOT Road and Bridge Standards as part of this development.
5. Standard street and traffic control signs shall be erected at each intersection by the developer prior to final street acceptance.
6. All traffic devices shall be in accordance with current edition of the "Manual on Uniform Traffic Control Devices" (MUTCD).
7. All unsuitable material shall be removed from the construction limits of the roadway before placing embankment.

See Sheet C-604 for Stormwater Site Statistics Table.
See Sheet C-604 for New BMP Information Table.

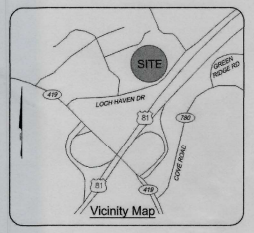
The Project Engineer shall provide electronic copies of the approved plans to the Development Review Coordinator within 5 working days of the pre-construction meeting.
The notes on this sheet shall not be modified.

NAME OF DEVELOPMENT AEP REGIONAL DISTRIBUTION CENTER	I, AMERICAN ELECTRIC POWER OWNER/DEVELOPER, AM AWARE OF THE SITE DESIGN REQUIREMENTS IMPOSED BY THIS SITE DEVELOPMENT PLAN, ALL REVISIONS THEREOF, AND OTHER APPLICABLE ROANOKE COUNTY CODES AND ORDINANCES.
MAGISTERIAL DISTRICT(S) CATAWBA	I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THESE REQUIREMENTS SHOWN ON THIS COVER SHEET UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW.
OWNER (name, address, telephone) AMERICAN ELECTRIC POWER, 40 FRANKLIN ROAD SW, ROANOKE VA 24011, PH# 800-946-4237	
DEVELOPER (name, address, telephone) AMERICAN ELECTRIC POWER, 40 FRANKLIN ROAD SW, ROANOKE VA 24011, PH# 800-946-4237	
ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone) HURT & PROFFITT, 2524 LANHORNE ROAD, LYNCHBURG VA 24501, PH # 434-847-7796	
TAX MAP NO(S) 036-10-01-14.03-0000	

WATER AND SEWER NOTES

1. All construction methods and materials shall conform to the latest edition of the Design and Construction Standards and Specifications of the Western Virginia Water Authority (WVWA) available at www.westernvwater.org or by contacting the authority at 540-853-5700. The project shall also comply with the governing jurisdiction's standards and other agency standards (e.g. VDOT, DEQ, DCR, VDH, etc.) where applicable.
2. A minimum cover of three (3) feet is required on all WVWA water and sewer lines.
3. All existing utilities may not be shown in their exact locations. The contractor shall notify Miss Utility and shall verify location and elevation of all underground utilities in the areas of construction prior to starting work.
4. Please show all WVWA water and sewer utilities on any development plan.
5. The location of existing utilities across or along the line of proposed work are not necessarily shown on the plans and where shown are only approximately correct. The contractor shall on his own initiative and at no extra cost, locate all underground lines and structures and potholes as necessary. The contractor shall be responsible for any damage to underground structures. All damage incurred to existing utilities during construction shall be repaired at the contractor's expense.
6. Plan approval by the WVWA does not remove the contractor's responsibility to remove or relocate any existing conflicts found during construction.
7. The contractor shall maintain a minimum of 18" clearance vertically and two (2) feet minimum horizontally from the outside of pipe to outside of pipe with all other underground utilities. Where this cannot be achieved, additional measures in accordance with the WVWA standards shall be enforced.
8. All utility grade adjustments shall be in accordance with WVWA standards and are the responsibility of the contractor.
9. Field changes shall be submitted by the engineer of record to the locality and approved by the WVWA.

Western Virginia Water Authority
Availability letter number: _____



Vicinity Map

LEGEND

Property Line	
Right-of-way	R/W
Centerline	CL
Minimum Building Line	MBL
Existing Storm Sewer	SD
Existing Sanitary Sewer	SS
Existing Water Main	W
Existing Contour	1045
Proposed Contour	1045
Proposed Drainage Divide	
Proposed Limits of Clearing	
Proposed Storm Sewer	24" S.D.
Proposed Sanitary Sewer	8" M.H.
Proposed Water Main	HYDRANT VALVE BLOWOFF

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 (including amendments). 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.

PR #:	NOTES:
PR1	BUILDING MOUNTED FDC
PR2	UTILITY RELOCATION
PR3	WATER LINE RELOCATION

Revision Table

G-001	NOTES
G-002	EROSION & SEDIMENT CONTROL NOTES
C-101	EROSION & SEDIMENT PHASE 1
C-102	EROSION & SEDIMENT PHASE 2
C-103	SITE LAYOUT
C-103.1	WATER LINE RELOCATION
C-104	SITE GRADING
C-105	SIGHT DISTANCE
C-106	SANITARY SEWER PLAN & PROFILE
C-107	STORM SEWER LAYOUT
C-108	STORM SEWER PROFILES
C-109	LIGHTING PLAN
C-501	SITE DETAILS
C-502	SITE DETAILS
C-503	SITE DETAILS
C-504	STORM SEWER DETAILS
C-505	UTILITY DETAILS
C-506	UTILITY DETAILS
C-507	TRAFFIC CONTROL
C-601	BASIN DETAILS
C-602	UNDERGROUND DETENTION DETAILS
C-603	PRE-DEVELOPED DRAINAGE AREA MAP
C-604	POST-DEVELOPED DRAINAGE AREA MAP
L-101	LANDSCAPE PLAN

Sheet Index

SURVEY INFORMATION

Horizontal and vertical control surveys were performed in year: 2021
By: NEIL MARTIN

All 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: NAVD88

Source of topographic mapping is dated MARCH 26, 2021

Boundary was performed by _____ dated: _____

Benchmark Information: _____

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	BONDABLE
GRADING (CUT)	12,070	CY	$2.50	$30,175.00	
GRADING (FILL)	17,898	CY	$3.00	$53,694.00	
PAVEMENT	10,800	SY	$36.00	$388,800.00	
HEAVY DUTY GRAVEL	8,300	SY	$19.00	$157,700.00	
CURB & GUTTER CG-	2,230	LF	$32.00	$71,360.00	
CURB	780	LF	$30.00	$23,400.00	
8" SANITARY SEWER	400	LF	$130.00	$52,000.00	
6" SANITARY SEWER	330	LF	$125.00	$41,250.00	
STANDARD MANHOLE W/FRAME & COVER	1	EA	$1,500.00	$1,500.00	
SAMPLING MANHOLE/PORT	1	EA	$1,200.00	$1,200.00	
15" N-12 HDPE	1,320	LF	$90.00	$118,800.00	
18" N-12 HDPE	570	LF	$95.00	$54,150.00	
24" N-12 HDPE	215	LF	$110.00	$23,650.00	
UNDERGROUND DETENTION	1	LS	$265,000.00	$265,000.00	
DI-3B STRUCTURE	2	EA	$6,500.00	$13,000.00	
DI-3C STRUCTURE	3	EA	$6,500.00	$19,500.00	
DI-7 STRUCTURE	5	EA	$5,500.00	$27,500.00	
48" MANHOLE	4	EA	$4,500.00	$18,000.00	
2' X 2' W/FORLAST STRUCTURE	6	EA	$5,000.00	$30,000.00	
CHAIN LINK FENCE	2,175	LF	$69.00	$150,075.00	
8" WATER LINE	175	LF	$338.00	$59,150.00	
2" DOMESTIC WATER LINE	175	LF	$40.00	$7,000.00	
FIRE HYDRANT	1	EA	$2,000.00	$2,000.00	
WATER METER VAULT	1	EA	$35,000.00	$35,000.00	
6" GATE VALVE	1	EA	$1,000.00	$1,000.00	
OIL & WATER SEPARATOR	1	LS	$12,500.00	$12,500.00	
SWM ASBUILTS	1	LS	$4,000.00	$4,000.00	
STORM DRAIN ASBUILTS	1	LS	$2,000.00	$2,000.00	
10% CONTINGENCY				$166,340.00	
ESTIMATED TOTAL				$1,829,744.00	

BY SEALING THE PLANS, THE DESIGN PROFESSIONAL HEREBY CERTIFIES THAT THE FORGOGING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT.

WVWA Inspector
As-Builts
Charles Crush
6-14-24

HURT & PROFFITT
INSPIRED / RESPONSIVE / TRUSTED
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HANDP.COM
ENGINEERING • SURVEYING • LAND DEVELOPMENT • ENVIRONMENTAL
GEOTECHNICAL • CONSTRUCTION TESTING & INSPECTION • CULTURAL RESOURCES

COMMONWEALTH OF VIRGINIA
BRIAN L COSSMAN
Lic. No. 039637
10/6/23
PROFESSIONAL ENGINEER

4TH REVIEW

New Facility for
AEP REGIONAL
DISTRIBUTION CENTER
1810 LOCH HAVEN DRIVE
ROANOKE, VA 24019