- 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.
- Solicitation of the interest county, one vession virgina visual v c.ew: Emediated July 1, 2001, as larned disturring projects that require approval or an orosion and sediment control plant, agrading or desemp permit shall require that the paper or some permit shall require that the paper of the property of the prope
- can be anyone from the Project team that is certified by the State of Virginia to be in charge of carrying out the laid distinuing activity for the projection of Responsible Land Disturber and the Utility Costractor to altered the control of the certified Responsible Land Disturber and the Utility Costractor to altered the control of the Costractor of
- An approved set of plans and all permits must be available at the construction site at all
- The project engineer will inform the owner/developer verbally and in writing of the The project-degreed wis mixed in mixed to demended the project degreed with an animal of the project degreed with an animal of the project degree of the p
- 11. In a Developer Must a community of 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 supported plant.

  13. All work shall be subject to inspection by Roancke County, the Western Virginia Water.
- All work shall be subject to inspection by Roanche County, the Western Virgnia Water
  Authority and the Virgnia Department of Transportation inspectors.
   All the County of the County of the County of the County of the County
  than ten (10) working days in advance. Area public utilities may be notified that "Mass
  Little": 1-800-552-7001.
   15. 100 year Floodway and Floodplain information shall be allown on where applicable. FIRM
  index Date shall be shown on the plants. The 100 year Floodway shall be still on the plants. The 100 year Floodway shall be still on the plants. The 100 year Floodway shall be still on the plants. The 100 year Floodway shall be still on the plants. The 100 year Floodway shall be still on the plants. The 100 year Floodway shall be still on the plants. The 100 year Floodway shall be stilled on the plants. The 100 year Floodway shall be stilled on the plants. The 100 year Floodway shall be stilled on the plants. The 100 year Floodway shall be stilled be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the plants. The 100 year Floodway shall be stilled by the 100 year Floodway shall be shown the 100 year Floodway shall be stilled by the 100 year Floodway shall be stilled by the 100 year Floodway shall be shown the 100 year Floodway shall be shown the 100 year Floodway shall be shown the 100 year Floodway sh

- to any construction.

  16. Grade states shall be set for all curb and gutter, culvert, sanishy sever and atom

  17. Several and times of construction.

  18. Construction debries shall be continued to the construction of the construction debries shall be continued to the construction debries shall be continued to the construction debries shall be continued to the continued to the construction debries shall be continued to the conti
- times.
  20. Plan approval in no way relieves the developer or contractors of the responsibilities contained within the encision and sediment contrict policies.
  21. Field contraction shall hnour proposed dinnings obtates as shown on plans.
  22. Field corrections shall be approved by the Remoke County Engineering Division and/or the Western Wigness and County Engineering Division and or the Western Wigness Western State of Records (price of the Western State Office Office of th
- construction.
  3. The developer or contractor shall supply the County and the Western Virginia Water Authority with correct As-Bullt plans before final acceptance.

### VIRGINIA DEPARTMENT OF TRANSPORTATION:

- 24. Plan approval by Roancke County does not guarantee issuance of any permits by the Virginia Department of Transportation.

  25. A permit may be obtained from the Virginia Department of Transportation, Salem 26. A permit may be obtained from the Virginia Department of Transportation, Salem 26. The permitten yield the constitution in the highway right draw, 26. The permitten yield the constitution in the highway for the properties of the 2014 Virginia Department of Transportation Pavement Design Guide for Subdivision and Secondays Robat. The sub-grade os is be tested by an independent lesionatory and the results submitted to the Virginia Department of Transportation prior to bese construction. The Sand of the sub-grade of CRIV value and to the Vival by last less than the construction. construction. Should be sub-grade CBR value and/or the RF value to less than the predicted values, additional base material will be regarded no conditioned the process will be regarded not conditioned the process of the three process of the process of the process of the three process of the three process of the process of the three process of the three process of the process of the three process of the three process of the three process of the process of the three process of the three process of the three process of the three process of the process of three process of the three process of the process of the process of the three process of the process of the three process of the process of the process of the three process of the process of the process of the three process of the process of the process of the three process of the process of three process of the process of the process of the process of the t
- serial os provised aird ine guartor air small os instantion in accordance with mic u/to VDOT Road and Bridge Standards as part of this development.

  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 (MUTCDY)"

- All unsuitable material shall be removed from the construction limits of the roadway before placing embankment.

See Sheet 3 for Stormwater Site Statistics Table

See Sheet 3 for New BMP Information Table.

This sheet may not be modified.

## NAME OF DEVELOPMENT: RIDGE AT FAIRWAY FOREST SECTION No. 3 MAGISTERIAL DISTRICT(S): WINDSOR HILLS MAGISTERIAL DISTRICT 3922 ELECTRIC ROAD SUITE 1A OWNER (name, address, telephone): (540) 278-1365 ROANOKE, VA 24018 DEVELOPER (name, address, telephone): ALEXANDER REAL ESTATE GROUP, LTD. (540) 278-1365 3922 ELECTRIC ROAD SUITE 1A ROANOKE, VA 24018 ENGINEER, ARCHITECT OR SURVEYOR (name, address, talephone): 4540) 774-4411

#### WATER NOTES

TAX MAP NOISE 066,02-01-03,02

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 in their exact location. The contractor shall comply with the (State Water Works Regulations, Section 12VAAC5-590-1150, where lines

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

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

Western Virginia Water Authority Availability letter number: 17–350



	LEGEND	
Property Line	—— е	
Right-of-way	R/V	y
Centerline	CL	
Minimum Building Line	mві	
Existing Storm Sewer	18"SD	18"SD
Existing Sanitary Sewer	8*ssc	8"ss ====
Existing Water Main	4"W	4"W
Existing Contour	10-	45
Proposed Contour	10-	45
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

### SEWER NOTES

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

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

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

#### PRIVATE UTILITIES

Underground utilities installed on private property or in private utility easements and building related storm drains that bits designed and installed per the current default of the building related and the stalled per the current default of the building related to the stalled per the current default of the stalled per the stalled p

SHEET No.	DESCRIPTION	
1	COVER SHEET	
2	NOTES DETAILS	
3	DIMENSIONAL LAYOUT	
4	PLAN & PROFILE	
5	PHASE I EROSION AND SEDIMENT CONTROL PLAN	
6	PHASE II EROSION AND SEDIMENT CONTROL PLAN	
7	EROSION & SEDMENT CONTROL NARRATIVE NOTES & DETAILS	
8	WVWA DETAILS	

# SURVEY INFORMATION

All vertical elevations are referenced to the National Geodetic Vertical Datum of 1929.

Boundary was performed by: Lumsden Associates, P.C., dated: 2017

Benchmark Information: Arrowhead on existing fire hydrant No 20412. Elevation = 1344,75°

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

30 IN, CONCRETE PIPE	
36 IN, CONCRETE PIPE	
42 IN, CONCRETE PIPE	
48 IN. CONCRETE PIPE	
54 IN. CONCRETE PIPE	
60 IN. CONCRETE PIPE	
PAVED DITCH	
EC-3 DITCH	
RIPRAP DITCH	
15 IN. ENDWALL EW-1	
18 IN. ENDWALL EW-1	
24 IN. ENDWALL EW-1	
30 IN. ENDWALL EW-1	
36 IN. ENDWALL EW-1	
42 IN. ENDWALL EW-2	
48 IN. ENDWALL EW-2	
54 IN. ENDWALL EW-2	
60 IN. ENDWALL EW-2	
15 IN. END SECTION ES-1	
18 IN. END SECTION ES-1	
24 IN. END SECTION ES-1	
30 IN. END SECTION ES-1	
36 IN, END SECTION ES-1	
CURB & GUTTER CG-2	
CURB & GUTTER CG-6	
6 IN. AGGREGATE BASE 21-B	
8 IN. AGGREGATE BASE 21-B	
10 IN. AGGREGATE BASE 21-B	
12 IN. AGGREGATE BASE 21-B	
3 IN. ASPHALT PAVEMENT BM-25.0	
4 IN. ASPHALT PAVEMENT BM-25.0	
S IN ASSUMENT DAVISMENT DAVIS O	

1.5 IN. ASPHALT PAVEMENT SM-9.5A 2 IN. ASPHALT PAVEMENT SM-9.54

BLOW OFFS WYAULT, FRAME & COVER

STANDARD MANHOLE WIFRAME & COVER SAMPLING MANHOLE/PORT

2 IN, WATER LINE

10 IN. WATER LINE 12 IN WATER LINE

8 IN, SANITARY SEWER

AMENITIES

STORMWATER MANAGEMENT

CLEARING AND GRUBBING

CURB INLET DI-3 GRATE INLET DI-1

GRATE INLET DI-7

STORM DRAIN MANHOLI

18 IN. CONCRETE PIPE

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LUMP SUM

BY SEALING THE PLANS, THE DESIGN PROFESSIONAL HEREBY CERTIFIES THAT THE FOREGOING ESTIMATE REPLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT,

\$1,700.00

\$14,393.00

\$158,324.00 \$158,324.0

\$1,200.00 \$1,500.00

\$1,900.0

\$40,000.00

\$3,600.00

\$40,000.00

PHONE: (540) 774-4411 FAX: (540) 772-9445 MAIL@LUMSDENPC.COM

24018

LUMSDEN ASSOCIATES, COMMISSION NUMBER:

LUMSDEN ASSOCIATES, P.C. ENGINEERS-SURVEYORS-PLANNERS ROANOKE, VIRGINIA

집 PLAN F SITE I

> SHEET OF 8



ROVED DATE: November 1, 2017 PLAN REVISION No. 1 DATE: August 20, 2019



\$ 41e,

GROUP, GINIA

E DEVELOPMENT PL
IDGE AT FAIRWAY FC
SECTION 3
PREPARED FOR
XANDER REAL ESTATE GR
ROANOKE, VIRGI