

INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. G.C. SHALL INSTALL TO MINIMIZE LATERAL MOVEMENT. UPON COMPLETION OF UNITS, COMPLETELY FILL ALL COMPARTMENTS WITH TOPSOIL AND SOW TALL FESCUE/BLUEGRASS MIX.

STONE PAVER DETAIL
NO SCALE

LIMITS OF JURISDICTIONAL WATERS; REFER TO USACE PERMIT NAO-2008-3460; SUBJECT TO DECLARATION OF RESTRICTIONS, SEE PLAT

SANITARY SEWER SCHEDULE

- NOTE 'A': PRIOR TO BEGINNING ANY CONSTRUCTION ON THE PROPOSED S.S. MAIN, G.C. SHALL VERIFY DEPTH AND LOCATION OF EXISTING 6" WATERLINE AT ITS PROPOSED CROSSING TO INSURE THAT ADEQUATE VERTICAL CLEARANCES CAN BE OBTAINED. IF THE WATERLINE CANNOT BE "CLEARED", THE G.C. SHALL CONTACT AND COORDINATE WITH THE W.V.W.A. TO EITHER RECONFIGURE THE PROPOSED 6" WATERLINE EXTENSION OR TO LOWER THE EXISTING 6" WATERLINE IN ACCORDANCE WITH THE DETAIL PROVIDED ON SHT. C-11.
- Ex. Existing s.s. manhole G.C. TO CORE BORE EXISTING STRUCTURE, INSTALL NEW BOOT AND EXTEND 8" S.S. MAIN AS INDICATED. ALL WORK TO BE ACCOMPLISHED BY THE G.C. AND INSPECTED BY THE W.V.W.A.
 - SS 'C' SANITARY SEWER MANHOLE STA. 22+68.42, 6.0' R.L. ANGLE = 115°
 - SS 'D' SANITARY SEWER MANHOLE STA. 24+18.18, 0.0' R.L. ANGLES = 150° & 233°
 - SS 'E' PRIVATE SANITARY SEWER PUMP STATION TO BE INSTALLED ON EXISTING SEWER LATERAL FROM DWELLING AND ROUTED TO DISCHARGE INTO PROPOSED CLEANOUT LOCATED AT LOT 22 IN ACCORDANCE W/ W.V.W.A. DETAIL S-12.
- NOTE: THE GENERAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO INSTALL, BACKFILL AND TEST ALL SANITARY SEWER COLLECTOR LINES AND ASSOCIATED STRUCTURES IN ACCORDANCE WITH THE WESTERN VIRGINIA WATER AUTHORITY WATER AND SEWER DESIGN & CONSTRUCTION STANDARDS, LATEST EDITION.

STORM DRAIN SCHEDULE

- Ex. Existing curb inlet and 15" conc. pipe. REMOVE TOP AND CONVERT TO A MANHOLE.
 - #1 VDOT STD. D.I.-3C THROAT = 10" STA. 18+99.83, 14'R.L.
 - #2 VDOT STD. D.I.-3A STA. 18+33.86, 14.01'R.L.
 - #3 VDOT STD. ES-1 DISCHARGE INTO THE PROPOSED SWM FACILITY
 - #4 VDOT STD. MH-2 LOCATED WITHIN D.E.
 - #5 VDOT STD. MH-2 LOCATED WITHIN D.E.
 - #6 VDOT STD. D.I.-3B THROAT = 10" STA. 19+41.11, 14'R.L.
 - #7 VDOT STD. D.I.-3B THROAT = 12" STA. 19+11.34, 14'L.L.
 - #8 VDOT STD. MH-2 STA. 20+17.03, 6.5'R.L.
 - #9 VDOT STD. MH-2 STA. 22+86, 6'R.L.
 - #10 VDOT STD. D.I.-3C THROAT = 6" STA. 24+10.81, 8.05'R.L.
- NOTE: THE GENERAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO INSTALL, BACKFILL AND TEST ALL STORM DRAIN AND ASSOCIATED STRUCTURES IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS, LATEST EDITION.

WATERLINE SCHEDULE

- W-1 approx. location of exist. 16" watermain.
 - W-2 G.C. TO PROVIDE IN-LINE BLOW OFF VALVE AT CONSTRUCTED LOW POINT. VALVE SHALL NOT BE LOCATED IN THE CREEK.
 - W-3 G.C. TO PROVIDE 22.5' BEND AS REQUIRED TO MAINTAIN WATERLINE.
 - W-4 G.C. SHALL PROVIDE AND INSTALL AN AIR RELEASE VALVE AT CONSTRUCTED HIGH POINT OF WATER MAIN WITHIN THE ROAD PAVEMENT OR GRASS AREA. VALVE TOP SHALL NOT BE LOCATED WITHIN LIMITS OF PROPOSED CURB & GUTTER.
 - W-5 22.5' BEND TO MAINTAIN HORIZONTAL ALIGNMENT
 - W-6 22.5' BEND TO MAINTAIN HORIZONTAL ALIGNMENT, APPROX STA. 19+76, 18.5' RT.
 - W-7 G.C. SHALL PROVIDE AND INSTALL FIRE HYDRANT ASSEMBLY AT STA. 19+35.1, 18.5' LT. STATIC PRESSURE=92 PSI, FLOW=3000 GPM @ 20 PSI RESIDUAL.
 - W-8 22.5' BEND TO MAINTAIN HORIZONTAL ALIGNMENT, APPROX STA. 19+09, 7.6' RT.
 - W-9 11.25' BEND TO MAINTAIN HORIZONTAL ALIGNMENT, APPROX STA. 18+67, 13.6' LT.
 - W-10 approx. location of exist. 6" watermain.
- NOTE: THE GENERAL CONTRACTOR SHALL COORDINATE THIS DRY CONNECTION WITH THE W.V.W.A. TO MINIMIZE THE IMPACT TO EXISTING CUSTOMERS LOCATED ON GREEN RIDGE COURT. EXISTING VAULT AND BLOW-OFF VALVE SHALL BE REMOVED. G.C. SHALL INSTALL 6"-90° BEND WITH THRUST BLOCK, 6" GATE VALVE, AND 6" x 8" ENGLANDER. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION AND SHORING PER OSHA REGULATIONS.
- NOTE: THE GENERAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO INSTALL, BACKFILL AND TEST ALL WATERLINE AND ASSOCIATED APPURTENANCES IN ACCORDANCE WITH THE WESTERN VIRGINIA WATER AUTHORITY WATER AND SEWER DESIGN & CONSTRUCTION STANDARDS, LATEST EDITION.

VDOT REQUIRED TRANSITION LENGTH

THE WIDTH OF EXISTING GREEN RIDGE COURT IS APPROXIMATELY 30 FEET. THE WIDTH OF THE PROPOSED PAVEMENT SECTION IS 28 FEET. VDOT TRANSITION LENGTH IS EQUAL TO THE SPEED² * W + 60. W IS THE DIFFERENCE IN WIDTH/2. THE POSTED SPEED LIMIT IS 25 MPH (DESIGN SPEED = 30); THEREFORE, THE TRANSITION LENGTH MUST EQUAL 15 FEET.

THE TRANSITION OCCURS ALONG CENTERLINE CURVE 'A'. IT IS APPROXIMATELY 42 FEET LONG STARTING AT STA. 17+42± AND ENDING AT STA. 17+84±.

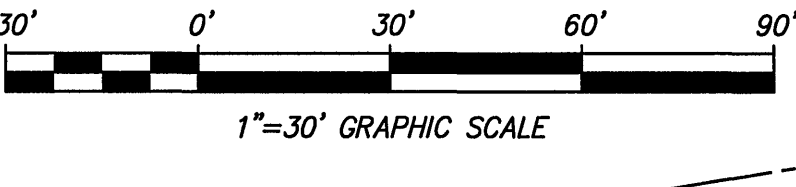
EXISTING CUL-DE-SAC NOTE:

UPON THE EXTENSION OF GREEN RIDGE COURT INTO THE NEW DEDICATED 40' RIGHT-OF-WAY, THE PAVED CUL-DE-SAC WILL BE REMOVED. THE DEVELOPER OF THIS SUBDIVISION WILL BE REQUIRED TO CONNECT THE EXISTING DRIVEWAYS FOR TAX MAP # 036.08-04-10.00, 036.08-04-11.00, & 036.08-04-12.00 TO THE NEW PAVEMENT. VDOT WILL MAINTAIN THE LAND WITHIN THE EXISTING RIGHT-OF-WAY EXCLUDING THE DRIVEWAYS, WHICH WILL BE MAINTAINED BY THE INDIVIDUAL HOMEOWNERS. SEE CUL-DE-SAC HATCHING AND PAVEMENT LEGEND.

HOMEOWNERS ASSOCIATION NOTES:

THE HOMEOWNERS ASSOCIATES OF THIS SUBDIVISION SHALL ASSUME THE MAINTENANCE RESPONSIBILITIES OF THE STORMWATER MANAGEMENT LOT.

THE HOMEOWNERS ASSOCIATES OF THIS SUBDIVISION SHALL ASSUME THE MAINTENANCE RESPONSIBILITIES OF THE PRIVATE DRAINAGE EASEMENT CROSSING LOTS 1 THRU 9. DWELLINGS CONSTRUCTED ON LOTS 1 THRU 9 ARE REQUIRED TO CONNECT ALL ROOF LEADERS INTO THE STORMWATER COLLECTION SYSTEM WITHIN THIS EASEMENT.



INTERSTATE 81
LIMITED ACCESS RIGHT OF WAY

LINE TABLE

LINE	BEARING	LENGTH
L1	N.09°30'00"W.	47.00
L2	S.07°18'00"E.	51.94
L3	S.12°02'00"W.	68.77
L4	N.71°13'26"W.	79.76
L5	N.58°56'13"W.	28.39
L6	N.43°12'00"W.	49.20

ROAD CENTERLINE DATA

CURVE 'A'	CURVE 'B'	CURVE 'C'	CURVE 'D'	CURVE 'E'
R = 150.00' Δ = 161°04'41" T = 21.32' L = 42.35' CH = N.05°23'21"W. d = 42.21' PC = 17+41.73 PT = 17+84.08	R = 150.00' Δ = 51°19'42" T = 72.08' L = 134.38' CH = N.12°11'09"E. d = 129.93' PC = 17+84.08 PT = 19+18.46	R = 120.00' Δ = 84°05'00" T = 108.21' L = 176.10' CH = N.04°11'30"W. d = 160.72' PC = 19+18.46 PT = 20+94.56	R = 120.00' Δ = 85°02'00" T = 76.50' L = 136.21' CH = N.78°45'00"W. d = 129.01' PC = 22+09.41 PT = 23+45.62	R = 120.00' Δ = 24°02'58" T = 25.56' L = 50.37' CH = S.56°42'31" d = 50.00' PC = 23+66.68 PT = 24+17.05

GENERAL NOTES

- G-1 THE EXTENSION OF THE PROPOSED ROADWAY AND PUBLIC UTILITIES WILL REQUIRE A PORTION OF THE EXISTING CURB & GUTTER SECTION TO BE REMOVED. A PORTION OF THE EXISTING PAVEMENT WITHIN THE CUL-DE-SAC SHALL ALSO BE REMOVED DUE TO THE EXTENSION OF THE PUBLIC UTILITIES AND SHALL BE SAW-CUT AS INDICATED. AFTER BACKFILLING HAS BEEN COMPLETED, NEW PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED ON THESE PLANS. ANY DAMAGE DUE TO CONSTRUCTION TO THE EXISTING PAVEMENTS OR CURBING THAT ARE INTENDED TO REMAIN WILL BE REPAIRED OR REPLACED AT THE DEVELOPER'S EXPENSE.
- G-2 THE G.C. AND ALL OTHER ASSOCIATED WORKERS ON THE JOB SITE SHALL MAINTAIN A SAFE TRAFFIC ACCESS ROUTE TO THE ADJOINING PROPERTY OWNERS AT ALL TIMES.
- G-3 G.C. SHALL SAW-CUT A MINIMUM OF 1" FROM THE EDGE OF THE EXISTING PAVEMENT OR TO THE LIMITS OF EXISTING FULL DEPTH PAVEMENT OF GREEN RIDGE COURT, WHICHEVER IS GREATER PRIOR TO INSTALLATION OF BASE MATERIAL.
- G-4 ALL DRIVEWAYS CONNECTED TO THE PROPOSED ROADWAY SHALL UTILIZE A VDOT STD. CG-9D, WITH A WIDTH OF 12' AND A MINIMUM DISTANCE OF 5' FROM A SIDE PROPERTY LINE.
- G-5 PROPOSED LOTS 1-21 OF THIS DEVELOPMENT SHALL INGRESS/EGRESS THEIR LOTS FROM THE PROPOSED ROAD AND SHALL NOT HAVE DIRECT ACCESS ON VA. SEC. RTE. 868 (CARNER ROAD).
- G-6 ANY NEW SIGNAGE SHALL COMPLY WITH THE APPLICABLE REGULATIONS OF THE COUNTY OF ROANOKE (SEC. 30-93). A SEPARATE PERMIT IS REQUIRED.
- G-7 EXISTING STRUCTURES TO BE RAZED AND DEBRIS REMOVED FROM THE JOB SITE AND DISPOSED AT A LANDFILL BY THE GENERAL CONTRACTOR.
- G-8 STONE PAVERS, SEE DETAIL THIS SHEET.

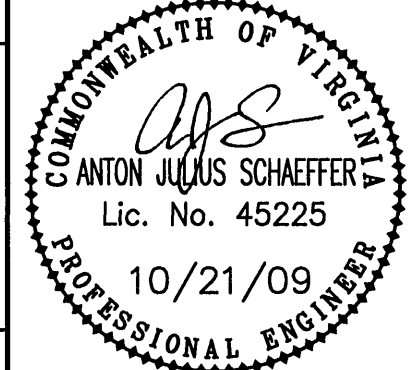


New River Valley
Richmond
Roanoke
Shenandoah Valley

RESIDENTIAL LAND DEVELOPMENT ENGINEERING
SITE DEVELOPMENT ENGINEERING
LAND USE PLANNING & ZONING
LANDSCAPE ARCHITECTURE
LAND SURVEYING
ARCHITECTURE
STRUCTURAL ENGINEERING
GEOTECHNICAL ENGINEERING
TRANSPORTATION ENGINEERING
ENVIRONMENTAL & SOIL SCIENCE
WETLAND DELINEATIONS & STREAM EVALUATIONS

Balzer and Associates, Inc.

1208 Corporate Circle
Roanoke, VA 24018
540-772-9580
FAX 540-772-8050



GREEN RIDGE COURT
DIMENSIONAL PLAN
CATAWBA DISTRICT
ROANOKE COUNTY, VIRGINIA

DRAWN BY A.J.S.
DESIGNED BY A.J.S.
CHECKED BY S.M.H.
DATE 10/16/2008
SCALE 1" = 30'

REVISIONS:
07/23/2009
09/08/2009
10/21/2009

SHEET NO.
C-2
JOB NO. R0700118.00

