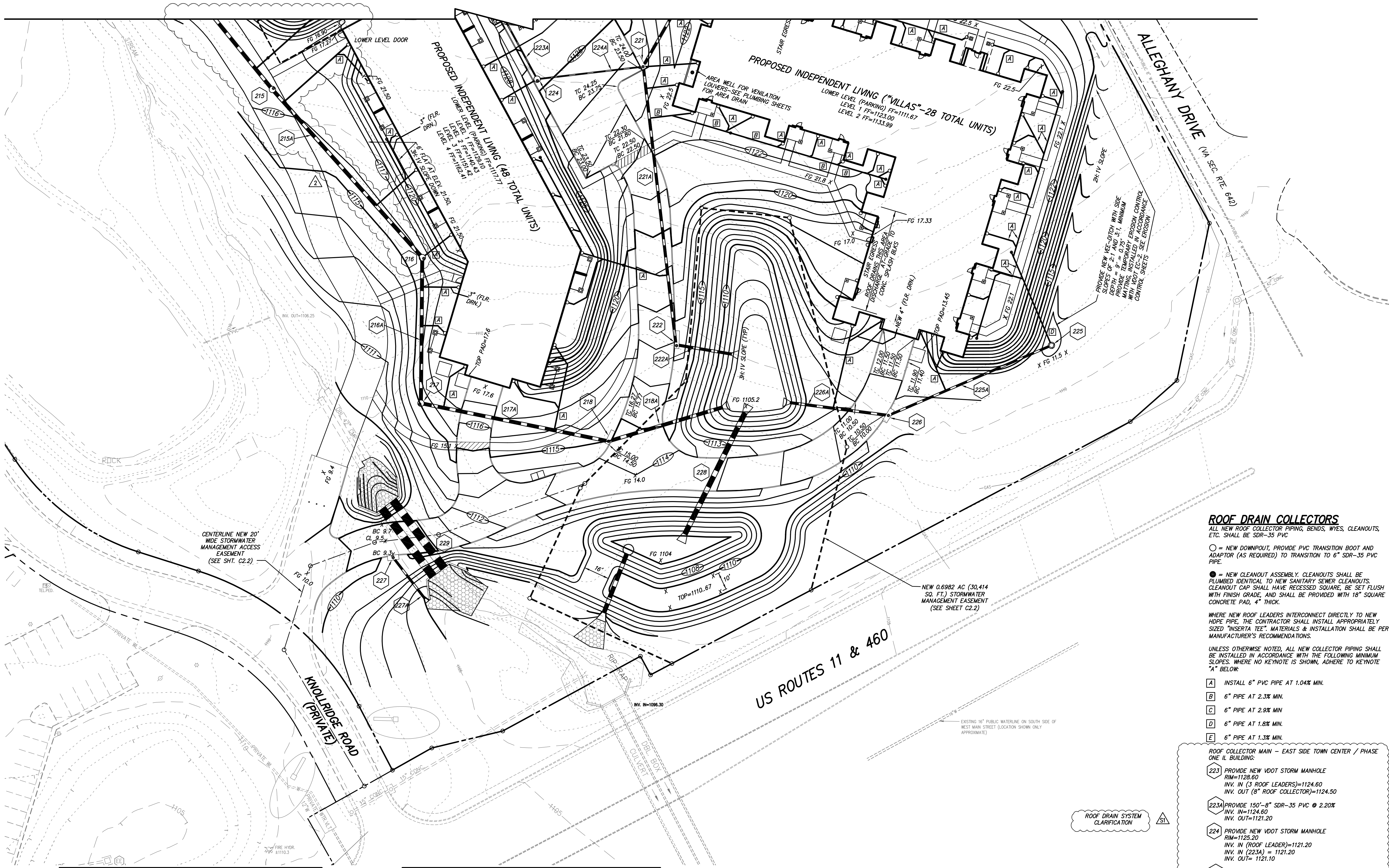




NEW BMP INFORMATION	
BMP TYPE	BMP #1
NAME OF AUTHORIZED NUTRIENT BANK	NUTRIENT BANK CREDIT
REQUIRED PHOSPHOROUS TO BE REMOVED (LB/YR)	'THE COVE' (EcoCap, LC)
AMOUNT OF PHOSPHOROUS CREDIT PURCHASED	3.48
TECHNICAL REQUIREMENTS MET (PART IIB OR IIC)	IIB
TOTAL AREA TREATED (AC)	11.72
IMPERVIOUS AREA TREATED BY BMP (AC)	5.42
MANAGED TURF AREA TREATED BY BMP (AC)	6.30
OPEN SPACE / FOREST AREA TREATED BY BMP (AC)	0
SURFACE AREA OF BMP (AC)	N/A
STORAGE VOLUME OF BMP (AC-FT)	N/A
QUALITY, QUANTITY, OR BOTH?	QUALITY
TMDL ADDRESSED? (PHOSPHOROUS, BACTERIA, SEDIMENT, ETC.)	PH
NAME OF RECEIVING WATER	Roanoke River-Sawmill Hollow
HYDROLOGIC UNIT CODE (ALPHANUMERIC CODE RU14, ETC.)	RU09
MAXIMUM AVERAGE DEPTH (FT)	N/A
LATITUDE (DECIMAL DEGREES XX.XXXX)	N 37.279130
LONGITUDE (DECIMAL DEGREES -XX.XXXX)	W 80.125300

STORMWATER SITE STATISTICS		
	EXISTING	PROPOSED
TOTAL DISTURBED AREA (AC)	0	11.14
TOTAL SITE AREA (AC)	11.14	11.14
IMPERVIOUS AREA (AC)	5.00	5.12
MANAGED TURF AREA (AC)	6.14	6.02
OPEN SPACE / FOREST AREA (AC)	0	0
RIGHT OF WAY DISTURBANCE (SF)	0	0
KARST PRESENT (Y/N)	N	N

IT IS NOTED THAT THE STORMWATER SITE STATISTICS SHOWN ARE FOR THE CURRENTLY PROPOSED PROJECT AREA, WHILE THE DATA SHOWN FOR BMP #1 INCLUDES THE PROJECT AREA AS WELL AS PREVIOUSLY DETERMINED MICRO PROJECTS AND A CONCURRENT, SEPARATE PROJECT WHICH WILL CONSTRUCT A NEW COTTAGE ON THE SUBJECT CAMPUS. SEE STORMWATER MANAGEMENT NOTES, SHEET C5.1.

ROOF DRAIN COLLECTORS

ALL NEW ROOF COLLECTOR PIPING, BENDS, WYES, CLEANOUTS, ETC. SHALL BE SDR-35 PVC

○ = NEW DOWNSPOUT, PROVIDE PVC TRANSITION BOOT AND ADAPTOR (AS REQUIRED) TO TRANSITION TO 6" SDR-35 PVC PIPE.

● = NEW CLEANOUT ASSEMBLY. CLEANOUTS SHALL BE PLUMBED IDENTICAL TO NEW SANITARY SEWER CLEANOUTS. CLEANOUT CAP SHALL HAVE RECESSED SQUARE, BE SET FLUSH WITH FINISH GRADE, AND SHALL BE PROVIDED WITH 18" SQUARE CONCRETE PAD, 4" THICK.

WHERE NEW ROOF LEADERS INTERCONNECT DIRECTLY TO NEW HDPE PIPE, THE CONTRACTOR SHALL INSTALL APPROPRIATELY SIZED "INSERTA TEE" MATERIALS & INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

UNLESS OTHERWISE NOTED, ALL NEW COLLECTOR PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING MINIMUM SLOPES. WHERE NO KEYNOTE IS SHOWN, ADHERE TO KEYNOTE "A" BELOW:

- A INSTALL 6" PVC PIPE AT 1.04% MIN.
- B 6" PIPE AT 2.3% MIN.
- C 6" PIPE AT 2.9% MIN.
- D 6" PIPE AT 1.8% MIN.
- E 6" PIPE AT 1.3% MIN.

ROOF COLLECTOR MAIN - EAST SIDE TOWN CENTER / PHASE ONE IL BUILDING:

223 PROVIDE NEW VDOT STORM MANHOLE
RIM=1128.60
INV. IN (3 ROOF LEADERS)=1124.60
INV. OUT (8" ROOF COLLECTOR)=1124.50

223A PROVIDE 150"-8" SDR-35 PVC @ 2.20%
INV. IN=1124.60
INV. OUT=1121.20

224 PROVIDE NEW VDOT STORM MANHOLE
RIM=1125.20
INV. IN (ROOF LEADER)=1121.20
INV. IN (223A) = 1121.20
INV. OUT= 1121.10

223A PROVIDE 65"-8" SDR-35 PVC @ 2.20%
INV. IN = 1121.10
INV. OUT = 1119.67

ROOF DRAIN SYSTEM CLARIFICATION

POPE
ARCHITECTS

POPE ARCHITECTS, INC.
1295 BANDANA BLVD N, SUITE 200
ST. PAUL, MN 55108-2735
(651) 642-9200 | FAX (651) 642-1101
www.popearch.com

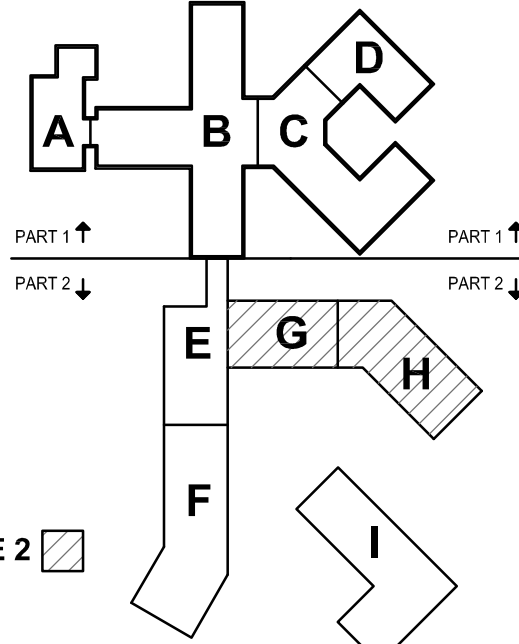
**RICHFIELD LIVING
CAMPUS
REDEVELOPMENT
PART 2
SALEM, VA**

RICHFIELD

CWA
CALDWELL WHITE ASSOCIATES
ENGINEERS / SURVEYORS / PLANNERS
4005 MERIDIAN AVENUE
P.O. BOX 6290
ROANOKE, VIRGINIA 24017-0290
(540) 368-3400
FAX: (540) 368-6705

Scale: 1" = 30'
W.O. 18-0045
Designed: C.L. White
Drawn: C.L. White

Key Plan



PHASE 2

PHASE 1-GRADING & STORM DRAINAGE PLAN-SOUTH

Issues and Revisions:
10/15/2018 1ST SITE SUBMITTAL
11/09/2018 PERMIT SET
12/19/2018 PER 1ST SITE REVIEW
12/19/2018 CONSTRUCTION SET
04/02/2019 ADDENDUM 2

COMMONWEALTH OF VIRGINIA
CORBIN L. WHITE
License No. 23843
04-02-19
PROFESSIONAL ENGINEER

Commission No: 63132-17186
Drawn by:
Checked by:

SHEET

C5.2

30' 0' 30' 60'
1" = 30' GRAPHIC SCALE

SEE SHEET C15.4 FOR NEW PERMANENT STORMWATER MANAGEMENT FACILITY

SEE SHEETS C7.1 THROUGH C7.3 FOR STORM DRAIN PROFILES