



PLAN REVISION #1 (14 December 2012):
ITEMS ARE SHOWN AS PR#1 ==>

- BUILDING DIMENSIONS AND AREA WITHIN INTERIOR CURB LIMITS IS BEING REVISED.
- INSTALLATION OF AN IRRIGATION SEPARATION METER IS INCORPORATED TO THE PLAN.
- THE BUILDING ROOF DESIGN IS BEING REVISED WHERE PORTIONS ARE NOW FLAT ROOF WHICH AFFECTS HOW STORMWATER IS BEING MANAGED FROM A STORMWATER QUALITY STANDPOINT.

- UTILITY NOTES:**
- WHILE CERTAIN UTILITIES ARE SHOWN, OTHER UNDERGROUND UTILITIES MAY BE ENCOUNTERED DURING CONSTRUCTION. PARKER DESIGN GROUP DOES NOT WARRANT LOCATION OR DEPTH OF ANY UTILITIES SHOWN. THE CONTRACTOR SHALL COORDINATE WITH "MISS UTILITY" PRIOR TO CONSTRUCTION AND ALL UTILITY DEPARTMENTS TO DETERMINE IF THE ENCOUNTERED UTILITY IS PUBLIC OR PRIVATE AND TAKE PROPER AND ADEQUATE METHODS TO PROTECT, IF NECESSARY.
 - WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITIES FOR UTILITY INSTALLATIONS. ALL NEW UTILITIES SHALL BE INSTALLED UNDERGROUND.
 - REFERENCE IS DIRECTED TO THE COVER FOR GENERAL WATER AND SANITARY SEWER NOTES.
 - DOWN SPOUT LOCATIONS ARE SHOWN ON THE PLANS. ALL DOWNSPOUTS SHALL BE DISCHARGED TO PAVEMENT SURFACE OR TO LANDSCAPED AREAS AS NOTED. <== NOTE REVISION.
 - THE CONTRACTOR SHALL INVESTIGATE EXISTING WATER AND SEWER MAINS TO VERIFY THE SIZE, LOCATION AND DEPTH OF EACH UTILITY. THE LOCATIONS SHOWN ARE BASED ON VISUAL INSPECTION.

DRAINAGE SUMMARY

- EXISTING STORM MANHOLE
TOP=1029.10
NEW 4" INV.=1026.00
NEW 8" INV.=1025.50
NEW 15" INV.=1023.70
EX. 18" INV.=1019.60
- 104.1 LF 15" CLASS III RCP @ 1.54% SLOPE
15" INV IN = 1025.30
15" INV OUT = 1123.70
- 48"Ø BASE WITH DI-3B, L=8'
TOP=1029.85
4" INV. IN=1026.05
15" INV. OUT=1025.30
- 9.5 LF 4" SDR-35 PVC @ 5.78% SLOPE
4" INV. IN=1026.60
4" INV. OUT=1026.05
- 9.9 LF 4" SDR-35 PVC @ 2.53% SLOPE
PROVIDE 45° BEND AT STUB FROM FILTERRA STRUCTURE
4" INV. IN=1026.25
4" INV. OUT=1026.00
- REVIEW COMMENT REVISION==>**
1A FILTERRA STRUCTURE (SEE SHEET C08).
- REVIEW COMMENT REVISION==>**
2A FILTERRA STRUCTURE (SEE SHEET C08).

DRAINAGE SUMMARY

- PR#1==>
ROOF STYLE REVISED.
STORMWATER
MANAGEMENT - (QUALITY)
APPROACH IS REVISED.
- PIPE END WITH CLEANOUT
TOP: 1032.55
6" INV. OUT = 1031.00
- 105 LF 6" SCHEDULE 40 PVC OR SDR-35 @ 1.10% SLOPE
6" INV IN = 1031.00
6" INV OUT = 1029.85
- PIPE END WITH CLEANOUT & 45° HORIZ. BEND
TOP: 1032.50
6" INV. = 1029.85
- 19 LF 6" SCHEDULE 40 PVC PR SDR-35 PVC
@ 1.25% SLOPE
6" INV. IN=1029.85
6" INV. OUT=1029.61
- REVIEW COMMENT REVISION==>**
3A1 6"x8" EXPANSION AND CONNECTION TO FILTERRA.
- 3A FILTERRA ROOF DRAIN STRUCTURE (SEE SHEET C08).
- 78 LF 8" SCHEDULE 40 PVC OR SDR-35 PVC
@ 1.63% SLOPE
8" INV. IN=1026.77
8" INV. OUT=1025.50

ROOF DRAIN COLLECTION SYSTEM

- GENERAL NOTES:**
- A MAJORITY OF THE ROOF UTILIZES A FLAT ROOF DESIGN. RUNOFF SHALL BE COLLECTED AND PIPED TO STRUCTURE 3A. ROOF COLLECTION POINTS SHALL BE PIPED AS SHOWN ON THE ARCHITECTURAL PLANS AND CONNECT TO STORM PIPE UNDER BUILDING SLAB. ADDITIONAL CONNECTIONS ARE ANTICIPATED.
 - THE DRIVE THRU ROOF CANOPY SHALL SPLASH TO THE PAVED SURFACE (AREAS 5A, 5B, AND 5C). ROOF ABOVE BUILDING ENTRY SHALL SPLASH BLOCK TO ADJACENT LANDSCAPED AREAS (AREAS 5D AND 5E).
 - STRUCTURES "3B" AND "3C" SHALL BE "CLEANOUT PORTS" IN ACCORDANCE WITH BUILDING CODE. PIPE BETWEEN POINTS AS WELL AS PIPE TO STRUCTURE "3A" SHALL BE 6-INCH SDR-35 OR 6-INCH PVC SCHEDULE 40 PIPE.
 - AT JUNCTION "3A1", CONTRACTOR SHALL INSTALL A 6"x8" EXPANSION AND CONNECT TO THE FILTERRA STRUCTURE (STRUCTURE "3A"). PIPE FROM STRUCTURE "3A" TO STRUCTURE "702" SHALL BE 8-INCH SDR-35 OR 8-INCH PVC SCHEDULE 40 PIPE.

WATER LATERAL NOTE:

- CONTRACTOR SHALL COORDINATE WITH THE WVWA FOR THE INSTALLATION OF A 3/4-INCH METER AND UTILIZE EXISTING METER SETTER. THE INSTALLATION SHALL INCLUDE A PRESSURE REDUCING VALVE FOR PRESSURES GREATER THAN 120 PSI. (SEE DETAIL W-03)
- CONTRACTOR SHALL INSTALL 1-INCH LATERAL. PIPE MATERIAL SHALL MEET APPLICABLE BUILDING CODES.
- WATER LATERAL SHALL BE A MINIMUM OF 5' FROM SANITARY SEWER LATERAL.
- THE WATER SYSTEM IS LOCATED IN THE 1329 HGL ZONE, RESULTING IN WATER PRESSURES EXCEEDING 120 PSI, REQUIRING A PRESSURE REDUCING VALVE, SEE DETAIL "W-03".
- PER LMW PLANS, DATED AUGUST 30, 2007, FIRE HYDRANT 4 (FH-4) PROVIDES 2000 GPM, WITH RESIDUAL PRESSURE 124 PSI. STATIC PRESSURE = 127 PSI. EXISTING HYDRANT IS WITHIN 250' OF THE MOST REMOTE BUILDING POINT.
- PLAN REVISION #1: ADD SEPARATION METER WITH RPZ. CONTRACTOR TO PROVIDE HEATED BOX (ROCK BOX). TEE AND SEPARATION METER TO BE INSTALLED BEHIND THE PRESSURE REDUCING VALVE. SEE DETAIL W-06 FOR ITEMS. DIRECT LINE AS SHOWN ON IRRIGATION PLAN.

SANITARY SEWER LATERAL NOTES AND DESIGN:

- CONTRACTOR TO COORDINATE WITH THE WVWA FOR THE REMOVAL OF THE EXISTING 6" STUB OUT. CONTRACTOR SHALL INSTALL THE NEW 6" LATERAL, SAMPLING MANHOLE, AND CLEANOUTS, AS SHOWN ON THE PLANS.
 - NEW 6-INCH LATERAL SHALL BE INSTALLED ON 6.61% SLOPE FROM EXISTING, BEYOND THE SAMPLING MANHOLE TO SSC#1.
 - CONTRACTOR TO PROVIDE A SAMPLING MANHOLE PER DETAIL S-07. THE TOP OF THE SAMPLING MANHOLE IS TO BE 1029.90. THE 6-INCH INVERT SHALL BE 1025.70.
 - THE CONTRACTOR SHALL PROVIDE CLEANOUTS PER DETAIL S-08. THE TOPS & INVERTS OF THE CLEANOUTS AS FOLLOWS:
- | SSCO#1 | SLOPE: | SSCO#2 | SLOPE: | SSCO#3 | SLOPE: | BLDG |
|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|
| TOP=1030.20 | 1.57% | TOP=1030.70 | 2.10% | TOP=1032.50 | 2.10% | |
| 6" INV.=1026.70 | 34.5' | 6" INV.=1027.30 | 50.0' | 6" INV.=1028.35 | 10.4' | 6" INV.=1028.60 |
- TRAFFIC BEARING TOP

ELECTRICAL, TELEPHONE, & GAS NOTES:

- E-1. TWO (2) 6-INCH CONDUITS EXIST AND SHALL BE THE GENERAL LOCATION OF ELECTRICAL TRANSFORMER. CONTRACTOR SHALL COORDINATE WITH AEP FOR LOCATION & CONNECTION. SEE SHEETS E.A & E.B FOR ADDITION NOTES.
- E-2. CONTRACTOR SHALL PROVIDE TWO (2) 4-INCH SCHEDULE 40 PVC CONDUITS UNDER PAVED AREAS.
- T-1. CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY FOR SERVICES.
- G-1. AN EXISTING GAS LINE WAS MARKED. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR SERVICE & CONNECTION.

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1-23-2013
PROFESSIONAL ENGINEER

New Branch Bank for Valley Bank
4003 Challenger Avenue

Tax No. 050.01-01-05.13; Vinton Magisterial District
Roanoke County, Virginia

REVISIONS:

NO.	DATE	DESCRIPTION
1	2009 JANUARY 23	ADDRESS COUNTY COMMENTS
2	2009 JANUARY 23	Owner Revision: Bldg Area Irrigation Notes
3	27 December 2012	Plan Rev 1 Signature Set
4	23 January 2013	

BT-33

DESIGNED BY: SRB
DRAWN BY: MFW
CHECKED BY: SRB
SCALE: 1" = 20'
DATE: 22 December 2008

Utility Plan

C05
05 OF 14
PROJECT NUMBER:
08-0170-05