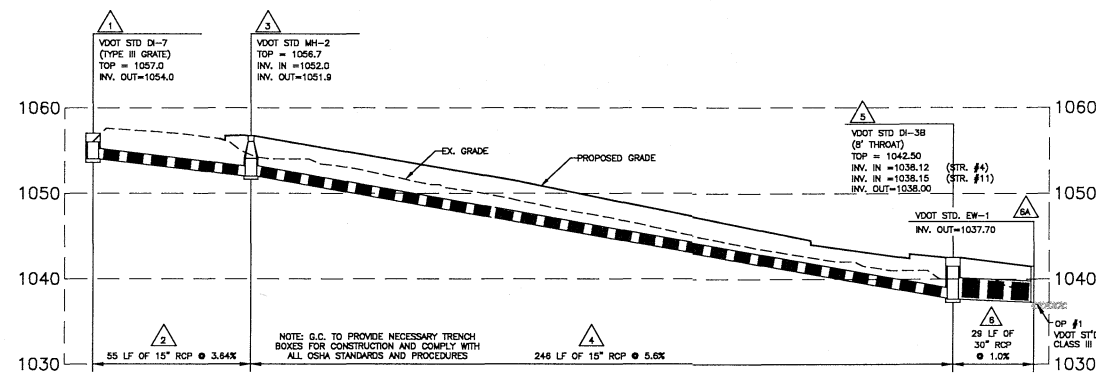
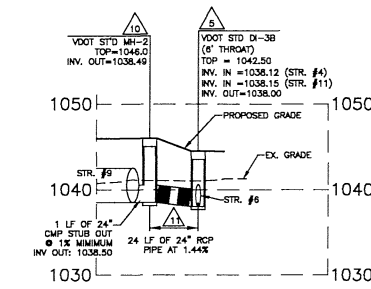




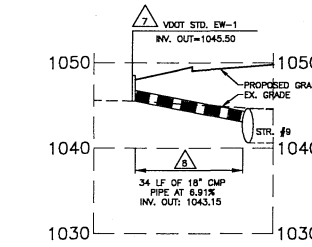
**STORM SEWER PROFILE (1-6)**

1"=30' HORIZONTAL  
1"=10' VERTICAL



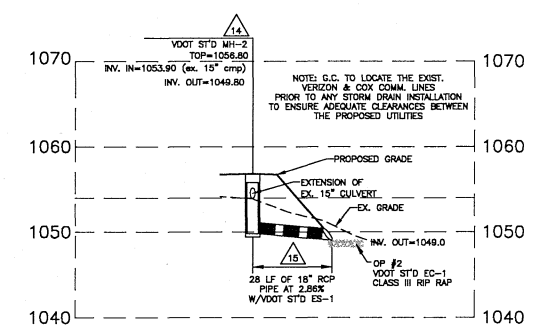
**STORM SEWER PROFILE (9-5)**

1"=30' HORIZONTAL  
1"=10' VERTICAL



**STORM SEWER PROFILE (7-9)**

1"=30' HORIZONTAL  
1"=10' VERTICAL



**STORM SEWER PROFILE (14-15)**

1"=30' HORIZONTAL  
1"=10' VERTICAL

**STORM STRUCTURE SCHEDULE:**

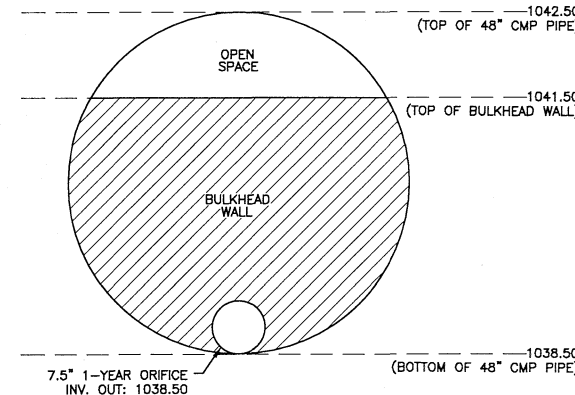
- |                                                                                                                                                                                                               |                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 1. VDOT STD DI-7 (TYPE III GRATE) TOP=1057.0 INV. OUT=1054.0                                                                                                                                                  | 1. VDOT STD DI-38 (8' THROAT) TOP=1045.30 INV. IN=1040.90 (10" RD) INV. OUT=1040.80         |
| 2. 55 LF OF 15" CLASS III RCP PIPE AT 3.64%                                                                                                                                                                   | 2. 12 LF OF 15" TYPE S HDPE PIPE AT 1.25% INV. OUT=1040.65                                  |
| 3. VDOT STD MH-2 TOP=1056.7 INV. IN=1052.0 INV. OUT=1051.9                                                                                                                                                    | 3. VDOT STD MH-2 W/ 15" RCP STUB TOP=1056.80 INV. IN=1053.90 (EX. 15" CMP) INV. OUT=1049.80 |
| 4. 246 LF OF 15" CLASS III RCP PIPE AT 5.60%                                                                                                                                                                  | 4. 28 LF OF 18" CLASS III RCP PIPE AT 2.86% W/VDOT STD ES-1 INV. OUT=1049.80                |
| 5. VDOT STD DI-38 (8' THROAT) TOP=1042.50 INV. IN=1038.12 (STR. #4) INV. IN=1038.15 (STR. #11) INV. OUT=1038.00                                                                                               | 5. 6" PVC C.O. TOP=1050.1 INV. OUT=1047.0                                                   |
| 6. 29 LF OF 30" CLASS III RCP PIPE AT 1.00%                                                                                                                                                                   | 6. 84 LF OF 8" TYPE S HDPE PIPE AT 1.00%                                                    |
| 7. VDOT STD DI-38 (8' THROAT) TOP=1042.50 INV. IN=1038.12 (STR. #4) INV. IN=1038.15 (STR. #11) INV. OUT=1038.00                                                                                               | 7. 6" PVC C.O. TOP=1051.6 INV. OUT=1046.16                                                  |
| 8. VDOT STD DI-38 (8' THROAT) TOP=1042.50 INV. IN=1038.12 (STR. #4) INV. IN=1038.15 (STR. #11) INV. OUT=1038.00                                                                                               | 8. 56 LF OF 8" TYPE S HDPE PIPE AT 1.36%                                                    |
| 9. UNDERGROUND CMP S.W.M. FACILITY 265 LF OF ALLUMINIZED 48" CMP @ 1% INC. WEIR WALL W/ 7.5" ORIFICE UPPER INV.=1041.20 LOWER INV.=1038.50 INV. IN=1040.65 (STR. 8) INV. IN=1040.65 (STR. 13) INV. OUT=1038.5 | 9. 6" PVC C.O. TOP=1051.5 INV. OUT=1045.4                                                   |
| 10. VDOT STD DI-38 (8' THROAT) TOP=1042.50 INV. IN=1038.12 (STR. #4) INV. IN=1038.15 (STR. #11) INV. OUT=1038.00                                                                                              | 10. 87 LF OF 8" TYPE S HDPE PIPE AT 3.95%                                                   |
| 11. VDOT STD DI-38 (8' THROAT) TOP=1042.50 INV. IN=1038.12 (STR. #4) INV. IN=1038.15 (STR. #11) INV. OUT=1038.00                                                                                              | 11. 6" PVC C.O. TOP=1045.75 INV. OUT=1041.96                                                |
| 12. VDOT STD DI-38 (8' THROAT) TOP=1042.50 INV. IN=1038.12 (STR. #4) INV. IN=1038.15 (STR. #11) INV. OUT=1038.00                                                                                              | 12. 11 LF OF 8" TYPE S HDPE PIPE AT 2.08%                                                   |
| 13. VDOT STD DI-38 (8' THROAT) TOP=1042.50 INV. IN=1038.12 (STR. #4) INV. IN=1038.15 (STR. #11) INV. OUT=1038.00                                                                                              | 13. 6" PVC C.O. TOP=1044.5 INV. OUT=1041.73                                                 |
| 14. VDOT STD DI-38 (8' THROAT) TOP=1042.50 INV. IN=1038.12 (STR. #4) INV. IN=1038.15 (STR. #11) INV. OUT=1038.00                                                                                              | 14. 40 LF OF 10" TYPE S HDPE PIPE AT 2.08%                                                  |
| 15. VDOT STD DI-38 (8' THROAT) TOP=1042.50 INV. IN=1038.12 (STR. #4) INV. IN=1038.15 (STR. #11) INV. OUT=1038.00                                                                                              | 15. VDOT STD DI-1 top W/ CONCRETE COLLAR TOP=1046.30                                        |

- NOTES:
- VDOT STD IS-1 INLET SHAPING SHALL BE PROVIDED IN ALL PROPOSED STRUCTURES
  - NON-SHRINK GROUT SHALL BE USED FOR ALL STORM SEWER PIPE CONNECTIONS.

**SANITARY SEWER SCHEDULE:**

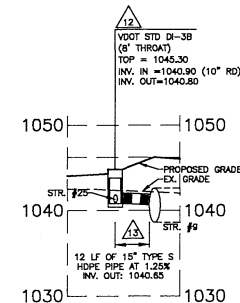
- |                                                                                             |
|---------------------------------------------------------------------------------------------|
| EX S.S. MH W/ STANDARD LID EX. TOP=1040.90 NEW TOP=1041.50 INV. IN=1032.96 INV. OUT=1032.36 |
| EX (A) 182 LF OF 8" SDR-35 PVC PIPE AT MINIMUM SLOPE OF 7.91%                               |
| (A) S.S. MH W/ STANDARD LID TOP=1052.35 INV. OUT=1047.35                                    |

(G.C. TO CONFIRM & COORDINATE ALL TIE IN LOCATIONS W/M.E.P. & ARCH. DRAWINGS PRIOR TO ANY INTERIOR OR EXTERIOR S.S. PIPE BEING INSTALLED. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED PRIOR TO ANY CONSTRUCTION)



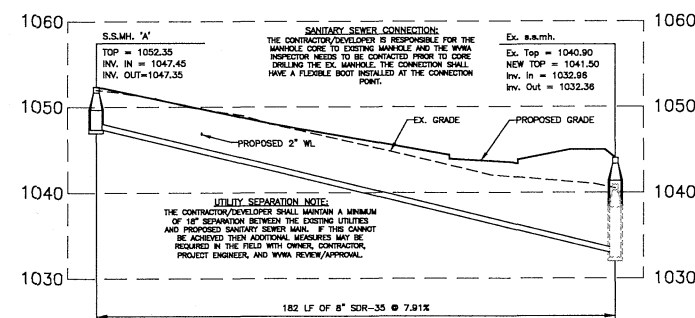
**WEIR WALL (BULKHEAD) DETAIL**

SCALE: 1"=1'



**STORM SEWER PROFILE (12-9)**

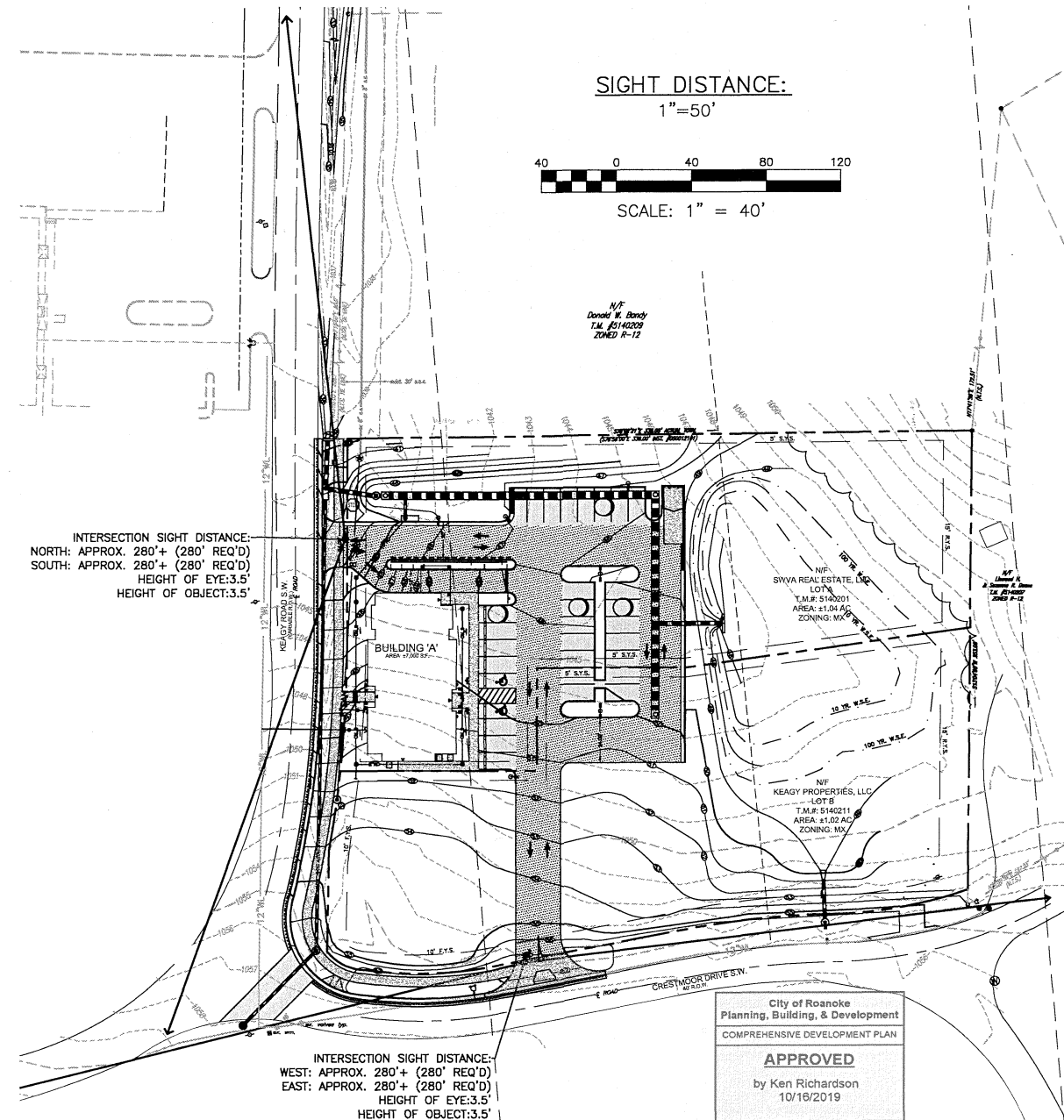
1"=30' HORIZONTAL  
1"=10' VERTICAL



**SANITARY SEWER PROFILE (A-EX.)**

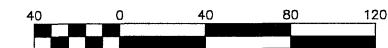
1"=30' HORIZONTAL  
1"=10' VERTICAL

NOTE: G.C. TO PROVIDE NECESSARY TRENCH BOXES FOR CONSTRUCTION AND COMPLY WITH ALL OSHA STANDARDS AND PROCEDURES



SIGHT DISTANCE:

1"=50'



SCALE: 1" = 40'

N/A  
Donald W. Bandy  
T.M. #5140209  
ZONED R-12

N/A  
SIVVA REAL ESTATE, LLC  
LOT 1  
T.M. #5140201  
AREA: 1.14 AC  
ZONING: MX

N/A  
SIVVA REAL ESTATE, LLC  
LOT 2  
T.M. #5140211  
AREA: 1.12 AC  
ZONING: MX

City of Roanoke  
Planning, Building, & Development  
COMPREHENSIVE DEVELOPMENT PLAN

**APPROVED**

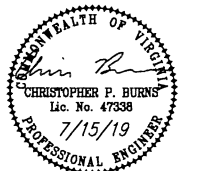
by Ken Richardson  
10/16/2019



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**CRESTMoor GARDENS - LOT A**

**UTILITY PROFILES**

CITY OF ROANOKE, VIRGINIA

DRAWN BY: BTC  
DESIGNED BY: BTC  
CHECKED BY: CPB  
DATE: 5/17/2019  
SCALE: AS SHOWN  
REVISIONS:  
8/14/2019  
7/15/2019

**C11**  
PROJECT NO: 04190018.00