

GRADING NOTES:

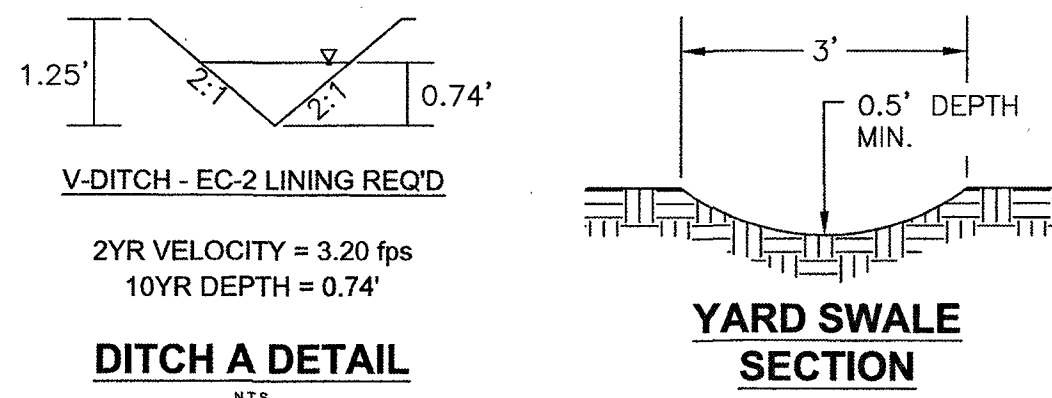
1. G.C. SHALL ENSURE POSITIVE DRAINAGE AWAY FROM ALL PROPOSED DWELLINGS.
2. OVERLOT GRADING, HOUSE LOCATIONS AND FINISHED FLOOR ELEVATIONS SHOWN SHALL BE GENERALLY ADHERED TO REGARDING GENERAL DRAINAGE PATTERNS. A SEPARATE BPPP WILL NEED TO BE SUBMITTED TO ROANOKE COUNTY PRIOR TO HOUSE CONSTRUCTION FOR EACH LOT TO ENSURE THAT THE LOTS ARE IN GENERAL COMPLIANCE WITH THIS OVERLOT GRADING PLAN.
3. WATERPROOFING SHALL BE PROVIDED AS NECESSARY FOR ALL BASEMENT WALLS WHERE THE FINISHED FLOOR WILL BE LOCATED BELOW FINISHED GRADE.
4. SEE TABLE ON THIS SHEET FOR MINIMUM SEWERABLE ELEVATIONS FOR DWELLINGS.
5. THE STORMWATER QUALITY ORIFICE IN THE EXISTING STORMWATER MANAGEMENT FACILITY SHALL BE INCREASED TO 3.25' DIAMETER WITH THIS PROJECT.
6. PROPOSED SANITARY SEWER MANHOLE LIDS LOCATED WITHIN THE PROPOSED ROADWAY SHALL BE FLUSH WITH THE TOP OF PAVEMENT.

STORM STRUCTURE SCHEDULE

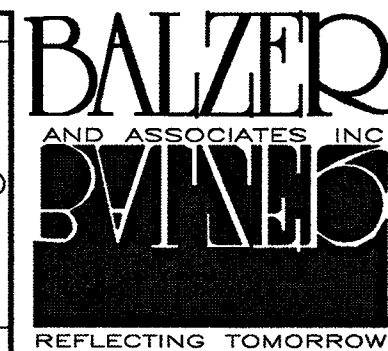
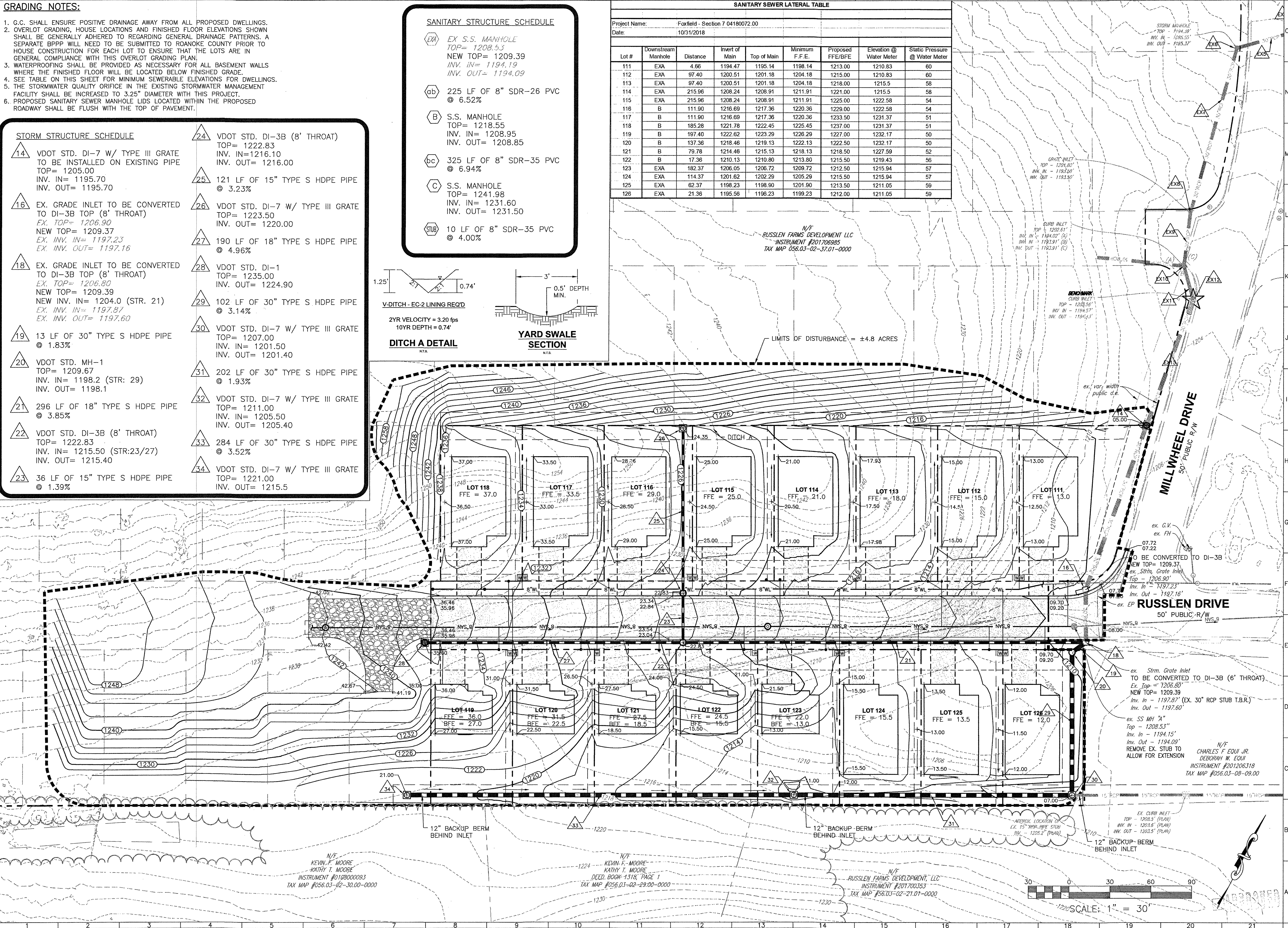
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| 14 VDOT STD. DI-7 W/ TYPE III GRATE TO BE INSTALLED ON EXISTING PIPE TOP= 1205.00 INV. IN= 1195.70 INV. OUT= 1195.70 | 24 VDOT STD. DI-3B (8' THROAT) TOP= 1222.83 INV. IN=1216.10 INV. OUT= 1216.00 |
| 16 EX. GRADE INLET TO BE CONVERTED TO DI-3B TOP (8' THROAT) EX. TOP= 1206.90 NEW TOP= 1209.37 EX. INV. IN= 1197.23 EX. INV. OUT= 1197.16 | 26 VDOT STD. DI-7 W/ TYPE III GRATE TOP= 1223.50 INV. OUT= 1220.00 |
| 18 EX. GRADE INLET TO BE CONVERTED TO DI-3B TOP (8' THROAT) EX. TOP= 1206.80 NEW TOP= 1209.39 NEW INV. IN= 1204.0 (STR. 21) EX. INV. IN= 1197.87 EX. INV. OUT= 1197.60 | 27 190 LF OF 18" TYPE S HDPE PIPE @ 4.96% |
| 19 13 LF OF 30" TYPE S HDPE PIPE @ 1.83% | 28 VDOT STD. DI-1 TOP= 1235.00 INV. OUT= 1224.90 |
| 20 VDOT STD. MH-1 TOP= 1209.67 INV. IN= 1198.2 (STR. 29) INV. OUT= 1198.1 | 29 102 LF OF 30" TYPE S HDPE PIPE @ 3.14% |
| 21 296 LF OF 18" TYPE S HDPE PIPE @ 3.85% | 30 VDOT STD. DI-7 W/ TYPE III GRATE TOP= 1207.00 INV. IN= 1201.50 INV. OUT= 1201.40 |
| 22 VDOT STD. DI-3B (8' THROAT) TOP= 1222.83 INV. IN= 1215.50 (STR.23/27) INV. OUT= 1215.40 | 31 202 LF OF 30" TYPE S HDPE PIPE @ 1.93% |
| 23 36 LF OF 15" TYPE S HDPE PIPE @ 1.39% | 32 VDOT STD. DI-7 W/ TYPE III GRATE TOP= 1211.00 INV. IN= 1205.50 INV. OUT= 1205.40 |
| | 33 284 LF OF 30" TYPE S HDPE PIPE @ 3.52% |
| | 34 VDOT STD. DI-7 W/ TYPE III GRATE TOP= 1221.00 INV. OUT= 1215.5 |

SANITARY STRUCTURE SCHEDULE

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| EX S.S. MANHOLE
TOP= 1208.53
NEW TOP= 1209.39
INV. IN= 1194.19
INV. OUT= 1194.09 |
| 225 LF OF 8" SDR-26 PVC @ 6.52% |
| S.S. MANHOLE
TOP= 1218.55
INV. IN= 1208.95
INV. OUT= 1208.85 |
| 325 LF OF 8" SDR-35 PVC @ 6.94% |
| S.S. MANHOLE
TOP= 1241.98
INV. IN= 1231.60
INV. OUT= 1231.50 |
| 10 LF OF 8" SDR-35 PVC @ 4.00% |



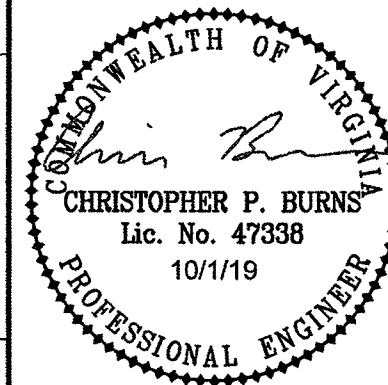
Lot #	Downstream Manhole	Distance	Invert of Main	Top of Main	Minimum F.F.E.	Proposed FFE/BFE	Elevation @ Water Meter	Static Pressure @ Water Meter
111	EXA	4.66	1194.47	1195.14	1198.14	1213.00	1210.83	60
112	EXA	97.40	1200.51	1201.18	1204.18	1215.00	1210.83	60
113	EXA	97.40	1200.51	1201.18	1204.18	1215.00	1210.83	60
114	EXA	215.96	1208.24	1208.91	1211.91	1221.00	1215.5	58
115	EXA	215.96	1208.24	1208.91	1211.91	1221.00	1215.5	58
116	B	111.90	1216.69	1217.36	1220.36	1229.00	1222.58	54
117	B	111.90	1216.69	1217.36	1220.36	1229.00	1222.58	54
118	B	185.28	1221.78	1222.45	1225.45	1237.00	1231.37	51
119	B	197.40	1222.62	1223.29	1226.29	1227.00	1232.17	50
120	B	137.36	1218.46	1219.13	1222.13	1222.50	1232.17	50
121	B	79.78	1214.46	1215.13	1218.13	1218.50	1227.59	52
122	B	17.36	1210.13	1210.80	1213.80	1215.50	1219.43	56
123	EXA	182.37	1206.05	1206.72	1209.72	1212.50	1215.94	57
124	EXA	114.37	1201.62	1202.29	1205.29	1215.50	1215.94	57
125	EXA	62.37	1198.23	1198.90	1201.90	1213.50	1211.05	59
126	EXA	21.36	1195.56	1196.23	1199.23	1212.00	1211.05	59



Roanoke
New River Valley
Richmond
Staunton
Harrisonburg

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Balzer and Associates, Inc.
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Roanoke, VA 24018
540-772-9580
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FOXFIELD - SECTION 7
RUSSLEN DRIVE
GRADING PLAN
CATAWBA DISTRICT
ROANOKE COUNTY, VIRGINIA

DRAWN BY KRO
DESIGNED BY CPB
CHECKED BY CPB
DATE 3/22/2019
SCALE 1"=30'
REVISIONS:
5/9/2019
5/23/2019
10/1/2019

SHEET NO.
C5
JOB NO. 04180072.00