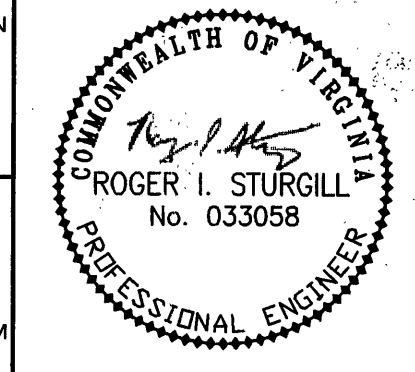
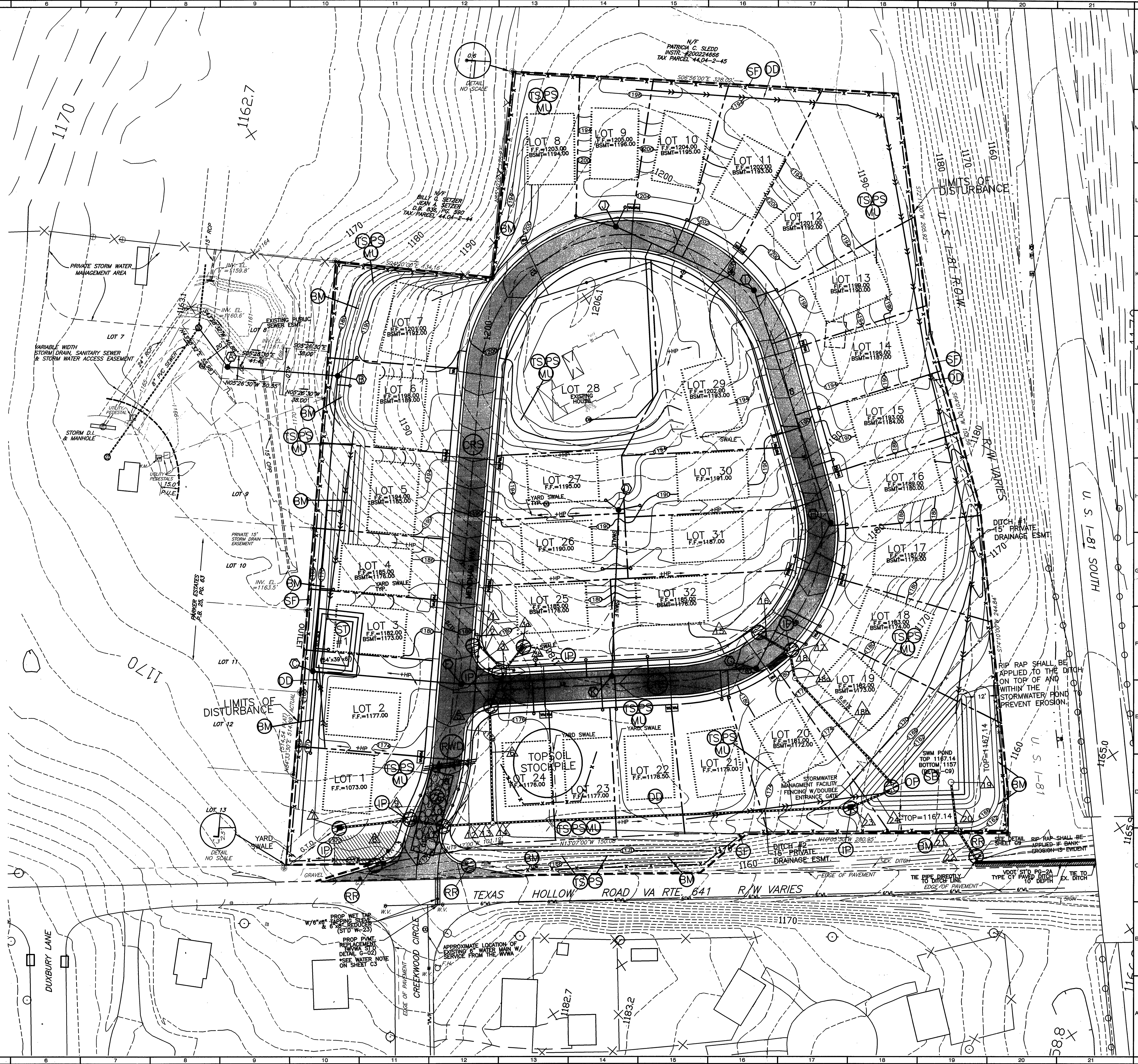
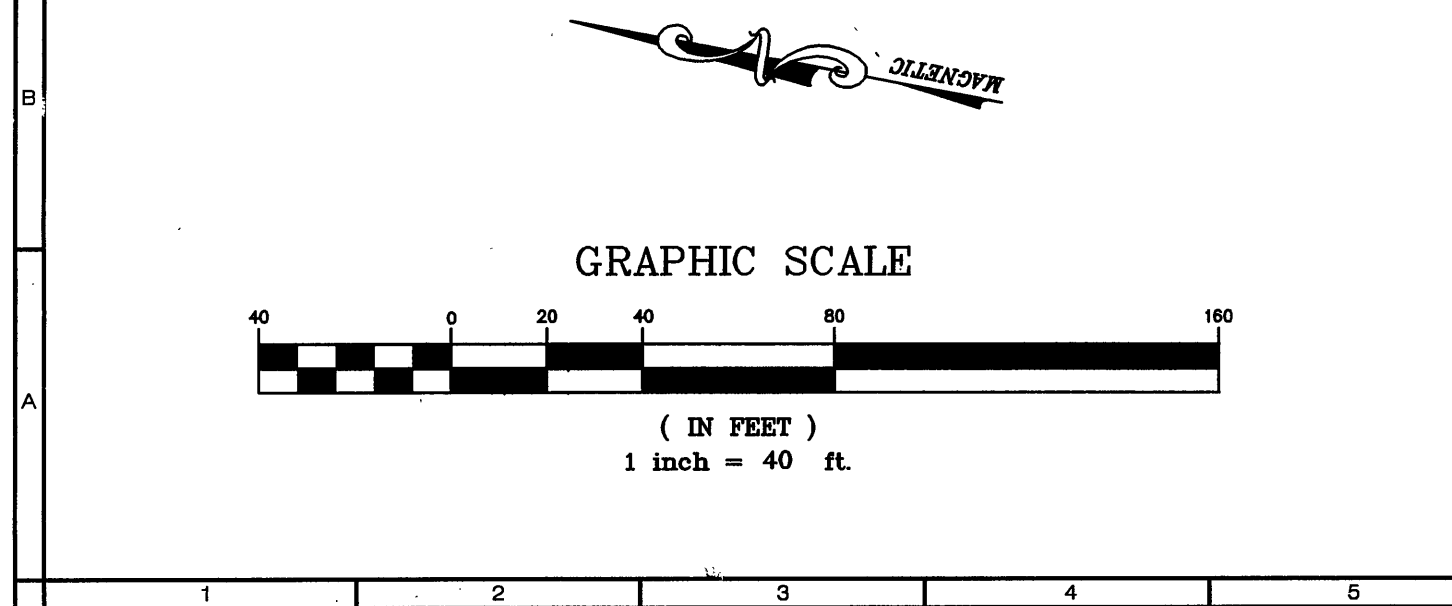


3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE	3.13	TEMPORARY SEDIMENT TRAP	ST
3.05	SILT FENCE	SF	3.35	MULCHING	MU
3.07	STORM DRAIN INLET PROTECTION	IP	3.32	PERMANENT SEEDING	PS
3.18	OUTLET PROTECTION	OP	3.09	TEMPORARY DIVERSION DIKE	DD
3.11	TEMPORARY RIGHT OF WAY DIVERSION	RWD	3.36	SOIL STABILIZATION BLANKETS & MATTING	B/M
3.03	CONSTRUCTION ROAD STABILIZATION	CRS	3.14	TEMPORARY SEDIMENT BASIN	SB

NOTE:

1. THE LOCATION OF ALL OFF-SITE FILL OR BORROW AREA ASSOCIATED WITH THE CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT. AN EROSION CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THIS AREA.
2. NO CONSTRUCTION/FIELD CHANGES WITHOUT THE APPROVAL OF THE CONSULTING ENGINEER, ROANOKE COUNTY, & VDOT.
3. EXISTING DRAINFIELD TO BE LOCATED AND REMOVED PER VDH STANDARDS AND REQUIREMENTS.
4. ALL SLOPES HAVING A GRADE OF 3:1 OR GREATER SHALL HAVE BLANKET MATTING APPLIED TO THE SLOPE.
5. DIRECTIONAL ARROWS BETWEEN THE HOUSES INDICATE YARD SWALES TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.

STORM SEWER STRUCTURE SCHEDULE		MINIMUM SEWERABLE ELEVATION (CO-CLEANOUT INVERT)	
▲ PROPOSED DI-3B (8')	▲ PROPOSED MANHOLE	LOT 1-1171.18	LOT 1-1171.18
TOP=1173.00	TOP=1174.50	CO-1169.18	CO-1169.18
INV. OUT=1171.74	INV. OUT=1165.33	LOT 2-1169.55	LOT 2-1169.55
W/VDOT STD 106.09	W/VDOT STD 106.09	CO-1167.55	CO-1167.55
▲ 26.50 LF OF 15"	▲ 227 LF OF 15"	LOT 3-1167.29	LOT 3-1167.29
RCP @ 4.26%	RCP @ 2.36%	CO-1179.09	CO-1179.09
▲ PROPOSED DI-3B (6')	▲ PROPOSED DI-3B (10')	LOT 4-1168.86	LOT 4-1168.86
TOP=1176.07	TOP=1180.77	CO-1166.86	CO-1166.86
INV. IN=1170.61	INV. IN=1176.77	LOT 5-1168.08	LOT 5-1168.08
W/VDOT STD 106.09	W/VDOT STD 106.09	CO-1166.08	CO-1166.08
▲ PROPOSED DI-1	▲ PROPOSED DI-3B (10')	LOT 6-1166.69	LOT 6-1166.69
TOP=1175.75	TOP=1180.97	CO-1164.69	CO-1164.69
INV. OUT=1171.75	INV. IN=1176.43	LOT 7-1168.21	LOT 7-1168.21
▲ 30 LF OF 15"	▲ 22 LF OF 15"	CO-1166.21	CO-1166.21
RCP @ 3.80%	RCP @ 6.77%	LOT 8-1192.25	LOT 8-1192.25
▲ 32.50 LF OF 15"	▲ PROPOSED MANHOLE	LOT 9-1190.25	LOT 9-1190.25
RCP @ 1.00%	TOP=1179.25	CO-1189.51	CO-1189.51
▲ PROPOSED DI-3B (4')	INV. OUT=1171.34	LOT 10-1191.60	LOT 10-1191.60
TOP=1175.51	W/VDOT STD 106.09	CO-1189.60	CO-1189.60
INV. IN=1169.85	▲ 121 LF OF 15"	LOT 11-1191.91	LOT 11-1191.91
W/VDOT STD 106.09	RCP @ 11.02%	CO-1189.91	CO-1189.91
▲ 96.50 LF OF 15"	W/ES-1	LOT 12-1190.14	LOT 12-1190.14
RCP @ 5.40%	OUT=1158	CO-1188.14	CO-1188.14
▲ PROPOSED DI-1	▲ 4" DIA. CONC. STANDPIPE	LOT 13-1188.21	LOT 13-1188.21
TOP=1169.75	INV. OUT=1157.00	CO-1186.21	CO-1186.21
INV. OUT=1166.95	W/VDOT STD 106.09	LOT 14-1185.07	LOT 14-1185.07
▲ 58.00 LF OF 15"	▲ 39.50 LF OF 18"	CO-1183.07	CO-1183.07
RCP @ 1.00%	(WATERTIGHT CONC. PIPE)	LOT 15-1182.46	LOT 15-1182.46
▲ PROPOSED DI-3B (10')	▲ PROPOSED DROP	LOT 16-1180.47	LOT 16-1180.47
TOP=1170.85	MANHOLE	CO-1178.47	CO-1178.47
INV. IN=1166.37	TOP=1164.00	LOT 17-1178.69	LOT 17-1178.69
W/VDOT STD 106.09	INV. IN=1156.43	CO-1176.69	CO-1176.69
▲ 32.50 LF OF 15"	W/VDOT STD DDM-1	LOT 18-1175.42	LOT 18-1175.42
RCP @ 1.00%	32.50 LF OF 18"	CO-1173.42	CO-1173.42
▲ PROPOSED DI-3B (8')	INV. OUT=1152.00	LOT 19-1173.30	LOT 19-1173.30
TOP=1170.85	W/VDOT STD ES-2	CO-1171.30	CO-1171.30
INV. IN=1165.95	(WATERTIGHT CONC. PIPE)	LOT 20-1171.02	LOT 20-1171.02
W/VDOT STD 106.09	▲ PROPOSED DI-1	CO-1169.02	CO-1169.02
▲ 42.50 LF OF 15"	TOP=1168.00	LOT 21-1169.00	LOT 21-1169.00
RCP @ 1.00%	INV. IN=1158.97	CO-1171.00	CO-1171.00
	W/VDOT STD ES-1	LOT 22-1170.66	LOT 22-1170.66
	END SECTION	CO-1168.66	CO-1168.66
		LOT 23-1170.60	LOT 23-1170.60
		CO-1168.60	CO-1168.60
		LOT 24-1170.79	LOT 24-1170.79
		CO-1168.79	CO-1168.79
		LOT 25-1170.75	LOT 25-1170.75
		CO-1168.75	CO-1168.75
		LOT 26-1182.09	LOT 26-1182.09
		CO-1180.09	CO-1180.09
		LOT 27-1187.78	LOT 27-1187.78
		CO-1185.78	CO-1185.78
		LOT 28-1188.56	LOT 28-1188.56
		CO-1186.56	CO-1186.56
		LOT 29-1184.82	LOT 29-1184.82
		CO-1182.82	CO-1182.82
		LOT 30-1187.78	LOT 30-1187.78
		CO-1185.78	CO-1185.78
		LOT 31-1180.09	LOT 31-1180.09
		CO-1182.09	CO-1182.09
		LOT 32-1170.53	LOT 32-1170.53
		CO-1168.53	CO-1168.53



BALZER AND ASSOCIATES INC.

REFLECTING TOMORROW

www.balzer.cc

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ENGINEERS • SURVEYORS

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Vienna, Virginia 24482
Phone: 840/248-3220
FAX: 840/248-3221

CARDINAL MEADOWS

GRADING & EROSION CONTROL

CATAWBA
ROANOKE COUNTY, VIRGINIA

DRAWN BY: BTC
DESIGNED BY: BTC
CHECKED BY: RIS
DATE: 12-21-05

REVISIONS:
2-24-06
4-24-06
6-5-06

SCALE: 1"=40'

SHEET NO.
C4

JOB NO.
R0500351.00