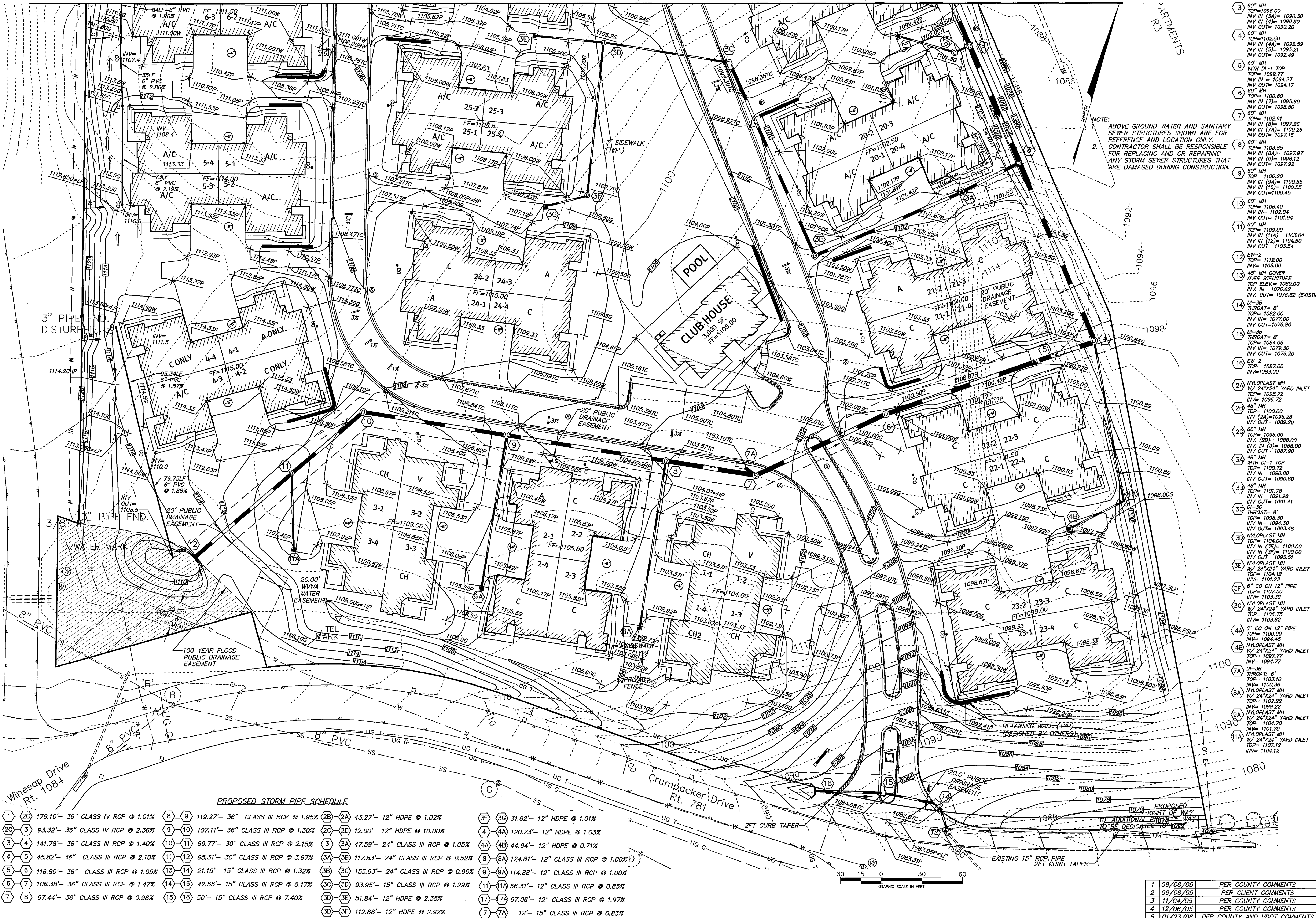




PROPOSED STORM PIPE SCHEDULE

1-20	179.10'- 36" CLASS IV RCP @ 1.01%	8-9	119.27'- 36" CLASS III RCP @ 1.95%	2B-2A	43.27'- 12" HDPE @ 1.02%	3F-3G	31.82'- 12" HDPE @ 1.01%
20-3	93.32'- 36" CLASS IV RCP @ 2.36%	9-10	107.11'- 36" CLASS III RCP @ 1.30%	2C-2B	12.00'- 12" HDPE @ 10.00%	4-4A	120.23'- 12" HDPE @ 1.03%
3-4	141.78'- 36" CLASS III RCP @ 1.40%	10-11	69.77'- 30" CLASS III RCP @ 2.15%	3-3A	47.59'- 24" CLASS III RCP @ 1.05%	4A-4B	44.94'- 12" HDPE @ 0.71%
4-5	45.82'- 36" CLASS III RCP @ 2.10%	11-12	95.31'- 30" CLASS III RCP @ 3.67%	3A-3B	117.83'- 24" CLASS III RCP @ 0.52%	8-8A	124.81'- 12" CLASS III RCP @ 1.00%
5-6	116.80'- 36" CLASS III RCP @ 1.05%	13-14	21.15'- 15" CLASS III RCP @ 1.32%	3B-3C	155.63'- 24" CLASS III RCP @ 0.96%	9-9A	114.88'- 12" CLASS III RCP @ 1.00%
6-7	106.38'- 36" CLASS III RCP @ 1.47%	14-15	42.55'- 15" CLASS III RCP @ 5.17%	3C-3D	93.95'- 15" CLASS III RCP @ 1.29%	11-11A	56.31'- 12" CLASS III RCP @ 0.85%
7-8	67.44'- 36" CLASS III RCP @ 0.98%	15-16	50'- 15" CLASS III RCP @ 7.40%	3D-3E	51.84'- 12" HDPE @ 2.35%	17-17A	67.06'- 12" CLASS III RCP @ 1.97%
				3E-3F	112.88'- 12" HDPE @ 2.92%	7-7A	12'- 15" CLASS III RCP @ 0.83%

STORM STRUCTURE SCHEDULE

3	60" MH TOP=1096.00 INV IN (3A)= 1090.30 INV IN (4)= 1090.50 INV OUT= 1090.20
4	60" MH TOP=1102.50 INV IN (4A)= 1092.59 INV IN (5)= 1093.21 INV OUT= 1092.49
5	60" MH WITH DI-1 TOP TOP= 1099.77 INV IN = 1094.27 INV OUT= 1094.17
6	60" MH TOP= 1100.80 INV IN (7)= 1095.60 INV OUT= 1095.50
7	60" MH TOP= 1102.61 INV IN (8)= 1097.26 INV IN (7A)= 1100.26 INV OUT= 1097.16
8	60" MH TOP= 1103.85 INV IN (8A)= 1097.97 INV IN (9)= 1098.12 INV OUT= 1097.92
9	60" MH TOP= 1106.20 INV IN (9A)= 1100.55 INV IN (10)= 1100.55 INV OUT= 1100.45
10	60" MH TOP= 1108.40 INV IN= 1102.04 INV OUT= 1101.94
11	60" MH TOP= 1109.00 INV IN (11A)= 1103.64 INV IN (12)= 1104.50 INV OUT= 1103.54
12	EW-2 TOP= 1112.00 INV= 1108.00
13	48" MH COVER OVER STRUCTURE TOP ELEV= 1090.00 INV IN= 1076.62 INV OUT= 1076.52 (EXIST.)
14	DI-3B THROAT= 8" TOP= 1082.00 INV IN= 1077.00 INV OUT= 1076.90
15	DI-3B THROAT= 8" TOP= 1084.08 INV IN= 1079.30 INV OUT= 1079.20
16	EW-2 TOP= 1087.00 INV= 1083.00
2A	NYLOPLAST MH W/ 24"x24" YARD INLET TOP= 1098.72 INV= 1095.72
2B	60" MH TOP= 1100.00 INV (2A)= 1095.28 INV IN (3)= 1098.00 INV OUT= 1089.20
2C	60" MH TOP= 1096.00 INV (2B)= 1088.00 INV IN (3)= 1098.00 INV OUT= 1087.90
3A	48" MH WITH DI-1 TOP TOP= 1101.72 INV IN= 1094.80 INV OUT= 1090.80
3B	48" MH TOP= 1101.78 INV IN= 1091.98 INV OUT= 1091.41
3C	DI-3C THROAT= 8" TOP= 1098.30 INV IN= 1094.30 INV OUT= 1093.48
3D	NYLOPLAST MH TOP= 1104.00 INV IN (3E)= 1100.00 INV IN (3F)= 1100.00 INV OUT= 1095.51
3E	NYLOPLAST MH W/ 24"x24" YARD INLET TOP= 1104.12 INV= 1101.22
3F	6" CO ON 12" PIPE TOP= 1107.50 INV= 1103.30
3G	NYLOPLAST MH W/ 24"x24" YARD INLET TOP= 1106.75 INV= 1103.62
4A	6" CO ON 12" PIPE TOP= 1100.00 INV= 1094.45
4B	NYLOPLAST MH W/ 24"x24" YARD INLET TOP= 1097.77 INV= 1094.77
7A	DI-3B THROAT= 6" TOP= 1103.10 INV= 1100.36
8A	NYLOPLAST MH W/ 24"x24" YARD INLET TOP= 1102.22 INV= 1099.22
9A	NYLOPLAST MH W/ 24"x24" YARD INLET TOP= 1104.70 INV= 1101.70
11A	NYLOPLAST MH W/ 24"x24" YARD INLET TOP= 1107.12 INV= 1104.12

30 SCALE GRADING PLAN (SOUTH)

FOR

ORCHARD VILLAS

ROANOKE COUNTY, VIRGINIA

*ENGINEERING & SURVEYING & PLANNING

HURT & PROFFITT

INCORPORATED

2524 LANGHORNE ROAD

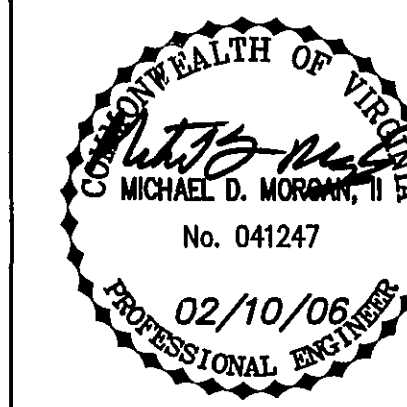
LYNCHBURG VA 24501

800.242.4906 TOLL FREE

434.847.7796 FAX



PROJECT NO. 20040345
G.L. NO. 260-04-C4.7
FILE NO. LS-11039
DATE: 09/06/05
DRAWN BY: DLC
CHECKED BY: MDM



HURT & PROFFITT

SHEET NO.
10 OF 33

1	09/06/05	PER COUNTY COMMENTS
2	09/06/05	PER CLIENT COMMENTS
3	11/04/05	PER COUNTY COMMENTS
4	12/06/05	PER COUNTY COMMENTS
6	01/23/06	PER COUNTY AND VDOT COMMENTS