

VARIABLES:

C = 0.40  
I 2 = 5.36 IN/HR  
I 10 = 7.22 IN/HR  
I 25 = 8.00 IN/HR  
I 100 = 8.25 IN/HR

FROM	TO	D.A.	SOIL D.A.	Q 2	Q 10	Q 25	Q 100	DIA	LENGTH	INVERT	INVERT	SLOPE
		(ACRE)	(ACRE)	(CF)	(CF)	(CF)	(CF)	(IN.)	(FT.)	DOWN	DOWN	(%)
1	2	0.33	0.33	0.23	0.95	15	36	379.50	378.20	1.000		
2	3	0.38	0.71	0.65	2.05	15	38	378.50	378.31	0.500		
3	4	0.67	1.40	1.49	4.04	15	38	378.11	377.53	0.500		
4	5	0.04	1.40	0.09	4.04	15	38	378.00	378.20	2.28%		
5	6	0.01	1.50	0.02	4.33	15	38	378.00	377.50	11.22%		
6	7	0.24	1.70	0.23	4.91	15	195	377.20	378.50	1.65%		
7	8	1.70	1.70	2.78	4.91	15	27	378.00	378.50	1.11%		
8	9	0.04	3.40	0.09	9.82	15	144	378.00	378.50	1.11%		
9	10	0.08	3.60	0.28	10.11	18	66	378.00	378.50	0.75%		
10	12	1.00	3.60	2.52	2.89	15	27	378.00	378.50	1.03%		
11	10	2.60	3.60	5.78	10.40	18	20	378.00	378.50	1.25%		
12	10	0.23	7.30	0.51	21.08	24	170	378.00	378.50	1.25%		
13	15	0.04	0.04	0.09	0.12	15	35	377.00	376.60	1.42%		
14	15	0.73	0.77	1.62	2.22	15	137	376.30	373.20	2.26%		
15	14	0.43	1.20	0.84	3.47	15	36	373.00	372.70	0.83%		
16	20	1.80	1.80	4.00	8.00	15	55	374.00	374.00	2.62%		
17	20	0.21	0.21	0.47	0.61	15	27	374.17	374.20	1.00%		
18	20	0.20	0.21	0.44	0.58	15	110	374.00	374.50	1.54%		
19	22	0.25	2.60	0.44	7.22	15	220	378.00	372.00	2.72%		

LEGEND

- SILT FENCE
- - - - - TEMPORARY DIVERSION DITCH
- SEDIMENT BASIN
- CATCH BASIN
- CONSTRUCTION ENTRANCE

PROJECT LOCATED IN LAKE JORDAN WATERSHED  
DENUDED AREA = 4.1 ACRES  
SOILS ON SITE : GRANVILLE, CREEDMORE  
NO 100 YR. FLOOD PLAIN ONSITE

FOR CONSTRUCTION

- NOTES
- 1) IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
  - 2) ALL WORK SHALL BE DONE IN CONFORMANCE WITH TOWN OF CARY STANDARDS AND SPECIFICATIONS.
  - 3) THE LENGTH OF SAG VERTICAL CURVES REDUCED IN ACCORDANCE WITH TOWN OF CARY POLICY STATEMENT NO. 13. ADDITIONAL STREET LIGHTS WILL BE REQUIRED TO PROVIDE ADEQUATE SIGHT DISTANCE.
  - 4) THE OWNER SHALL CONTACT AND COORDINATE WITH CP&L TO DEVELOP A STREET LIGHTING PLAN.
  - 5) THE OWNER IS RESPONSIBLE FOR ALL INSTALLATION COSTS ASSOCIATED WITH THE STREET LIGHTING PLAN.
  - 6) NO ACCESS TO SITE FROM WESTPARK UNTIL ASPHALT, CURB & GUTTER ARE IN PLACE.
  - 7) CONTRACTOR SHALL ENSURE THAT SEDIMENT BASINS ARE KEPT OUT OF STREAM CHANNELS.
  - 8) CATCH BASINS SHALL BE PROTECTED WITH SILT FENCING.
  - 9) GRADING LIMITS SHOWN OUTSIDE OF R.O.W. ONLY.
  - 10) CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EROSION CONTROL DEVICES.
  - 11) HOMEOWNERS ASSOCIATION IS RESPONSIBLE FOR THE MAINTENANCE OF PERMANENT EROSION CONTROL DEVICES.

WELLSLEY 7

OUTLET PROTECTION

STRUCTURE	SIZE	TYPE
13	6' x 12' x 22"	CLASS B
22	4' x 8' x 22"	CLASS B

SEDIMENT BASIN SIZING

STRUCTURE	DRAINAGE AREA (AC)	DENUDED AREA (AC)	VOLUMN (CF)	SIZE *	WEIR LENGTH (FT)
ALL T.O.C.	4.03				
13	3.5	1.1	1980	6' x 20' x 20"	14
22	2.5	.90	1620	6' x 18' x 18"	12

\* INCLUDES 1' FREEBOARD



SCALE 1" = 60'  
0 120 160

WELLSLEY PHASE 7

DRAINAGE & EROSION CONTROL

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REVISIONS: 09/28/94-1st SUBMITTAL  
10/14/94-2nd SUBMITTAL  
11/08/94-3rd SUBMITTAL  
12/16/94-STREET NAMES

SHEET: 3  
OF