

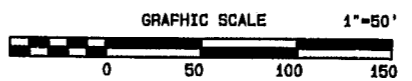
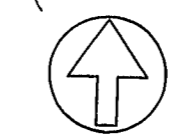
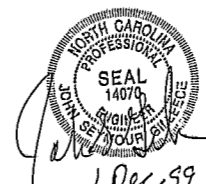
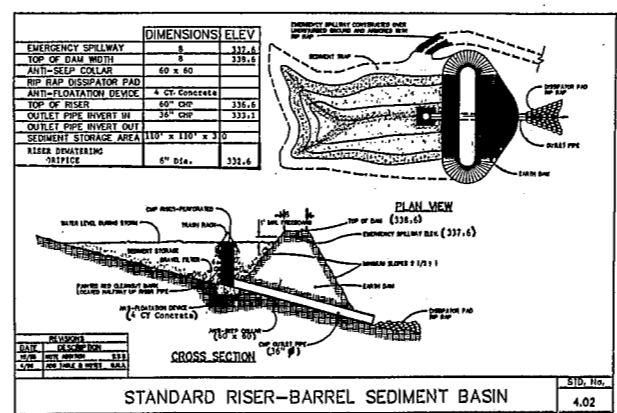
LINETYPE LEGEND			LEGEND SYMBOLS		
EXISTING	NAME	PROPOSED	ABBREV.	SYM.	NAME
W	WATER LINE	W	MHPR	●	PROPOSED MAN HOLE
G	GAS LINE	G	MH EX	○	EXISTING MAN HOLE
OE	OVERHEAD ELECTRIC	OE	FESPR	◐	PROPOSED FLARED END SECTION
UE	UNDERGROUND ELECTRIC	UE	FESEX	◑	EXISTING FLARED END SECTION
OT	OVERHEAD TELEPHONE	OT	YIPR	◒	PROPOSED YARD INLET
UT	UNDERGROUND TELEPHONE	UT	YIEK	◓	EXISTING YARD INLET
	STORM DRAIN		CBPR	◔	PROPOSED CATCH BASIN
	SANITARY SEWER		CBEX	◕	EXISTING CATCH BASIN
FM	FORCE MAIN	FM	VINLET	◖	PROPOSED V INLET
	CENTERLINE		SEDBASIN	○	PROPOSED SEDIMENTATION BASIN
	PHASE LINE				
X	FENCE LINE	X			
	SILT FENCE LINE				
	STREAM LINE				
	TREE LINE				
	CURB & GUTTER LINE				
	CONTOUR LINE				
320	INDEX CONTOUR LINE	320			
	PROPERTY LINE				
	SHALE/DITCH LINE				
	GUARD RAIL LINE				
	EASEMENT LINE				
R	ROW LINE	R			
	FLOW LINE				
	TEMP DIVERSION LINE				
	CUT LIMITS				
	FILL LIMITS				
	RIGHT PROFILE				
	LEFT PROFILE				

- NOTE:**  
INSTALL SEDIMENT BASINS AND DIVERSION DITCHES PRIOR TO CONSTRUCTION.
- NOT FOR CONSTRUCTION**  
PLANS FOR INFRASTRUCTURE ONLY
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/ TOWN OF CARY STANDARD SPECS AND DETAILS.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES BETWEEN FIELD CONDITIONS AND THESE DRAWINGS.
  - NO 100 YEAR FLOOD ZONE.
  - VELOCITY REDUCTION PADS SHALL BE INSTALLED AFTER T.O.C. AUTHORIZES REMOVAL OF SEDIMENT BASINS.
  - AREA OF DISTURBANCE = 2.00 AC., TOTAL PHASE 18 AREA = 6.68 AC.
  - CONTRACTOR WILL KEEP STREETS CLEAN AT ALL TIMES, OR A WASH STATION WILL BE REQUIRED.
  - ALL CATCH BASINS SHALL HAVE INLET PROTECTION.
  - SOILS ON SITE ARE CREEDMORE-WHITESHORE.
  - PROJECT TRIBUTARY TO CRABTREE LAKE WATERSHED.
  - NO WETLANDS PRESENT ON THE SITE.
  - ALL CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 15 DAYS OF ANY PHASE OF GRADING.
  - IMPERVIOUS AREA = 0.72 ACRES
  - EACH LOT IS TO BE CLEARED INDIVIDUALLY OR IF LOTS ARE CLEARED JOINTLY AND THE DENURED (DISTURBED) AREA IS OVER 12,000 SQ FT AN EROSION CONTROL PLAN WILL HAVE TO BE SUBMITTED BEFORE THIS CLEARING BEGINS.
  - TREE PROTECTION FENCING ON THIS PROJECT WILL BE INSTALLED AND INSPECTED BEFORE THE GRADING PERMIT IS ISSUED.
  - INSTALL ALL EROSION CONTROL DEVICES IN PHASE 18. AFTER ALL EROSION CONTROL DEVICES HAVE BEEN INSTALLED, RELOCATE AND MAINTAIN THE DIVERSION DITCHES FROM PHASE 17.
  - $Q (CIA) = (0.25) (7.22) (6.65) = 12.10 \text{ C.F.S.}$   
 $Q (CIA) = (0.4) (7.22) (6.65) = 19.300 \text{ C.F.S.}$
  - TREE PROTECTION FENCING ON THIS PROJECT WILL BE INSTALLED AND INSPECTED BEFORE THE GRADING PERMIT IS ISSUED.
  - THE LARGE SEDIMENT BASIN SHOWN IN PHASE 18 WILL BE INSTALLED PRIOR TO CONSTRUCTION OF PHASE 17 AND WILL NOT BE REMOVED UNTIL MAJORITY OF THE COMPLETION OF PHASE 1 AND AUTHORIZATION BY A T.O.C. EROSION CONTROL INSPECTOR.
  - RISER WILL BE ON SITE BEFORE GRADING PERMIT IS ISSUED.

DRAINAGE SCHEDULE - RATIONAL METHOD												
DATE: 10/1/99 REVISED 9/10/99 REVISED 11/10/99		INTENSITY:		2 YEAR = 1.54 IN/HR		10 YEAR = 7.32 IN/HR		28 YEAR = 8.19 IN/HR				
PROJECT: CARPENTER VILLAGE 18												
EXCISE DDCARP18												
PHASE 17												
61	70	7.44	7.44	0.29	15.2	348.00	347.90	48	0.027	RCP	18	
71	71	1.5	0.44	0.27	3.8	18.7	347.23	347.23	22	.02	RCP	24
7	75	.40	9.08	0.28	1.1	20.6	347.18	347.80	278	.02	RCP	24
7	76A	2.56	12.12	0.32	7.1	31.6	341.22	339.18	100	.02	RCP	36
73	85*	.72	12.84	0.33	2.0	34.7	339.18	337.70	148	.01	RCP	36
PHASE 18												
81	81	2.24	2.88	.44	0.2	11.8	344.72	344.28	22	.02	RCP	18
8	82	.40	3.28	.44	1.1	19.3	344.20	343.10	62	.018	RCP	18
81	82	.15	.15	.44	0.47	10.62	343.32	343.10	22	.010	RCP	18
8	85	.25	3.48	.44	.6	11.43	342.90	337.10	300	0.019	RCP	18
8	85	1.8	14.64	.34	0.8	40.6	337.70	337.10	30	.017	RCP	36
8	85	.29	14.92	.34	0.8	41.5	337.10	336.82	22	.012	RCP	36
8	85	.24	18.54	.35	0.7	35.0	336.82	336.80	30	.013	RCP	36

OUTLET PROTECTION			
PROJECT: CARPENTER VILLAGE 18	DATE: 2/21/99	DESIGNER: [Signature]	DATE: 10/29/1999
EXCISE DDCARP18	6	5X4X12	A
	60	7 1/2 X 10X10	B

SEDIMENT BASINS			
PROJECT: CARPENTER VILLAGE 18	DATE: 7/21/99	DESIGNER: [Signature]	DATE: 10/29/1999
EXCISE DDCARP18	68	3.30	2.93
	68	3.30	2.93



99-SB-017  
APPROVED  
SP 2-1-00

- \* A PRE-CONSTRUCTION CONFERENCE MAY BE REQUIRED BEFORE GRADING PERMIT IS ISSUED.
- CONSTRUCTION SEQUENCE FOR PROJECT SHALL BE AS FOLLOWS:
- Obtain grading permit
  - Install all erosion control permits as shown.
  - Obtain certificate of compliance through on-site inspection by town Environmental Inspector.
  - Proceed with grading.
  - Clean sediment basins when one-half full.
  - Seed and mulch denuded area within thirty (30) days after finished grades are established.
  - Maintain soil erosion control measures until permanent ground cover is established.
  - Request final approval by Town Environmental Inspector.
  - Remove soil erosion measures and stabilize these areas.
  - All cut/fill slopes shall be stabilized within 15 days of any phase grading.
  - Tree protection fencing will be installed and inspected before issuance of grading permit

CARPENTER VILLAGE PHASE 18

GRADING, DRAINAGE, AND EROSION CONTROL

Hugh J. Gilleece and Associates  
875 Walnut St. Suite 350 Cary, NC ph(919)469-1101 fax(919)460-7637

Revisions: 11/16/1999 12/02/1999	(H) Scale: 1"=50'	Designed by:	Sheet: 4
		Drawn by:	
		DATE: 10/29/1999	