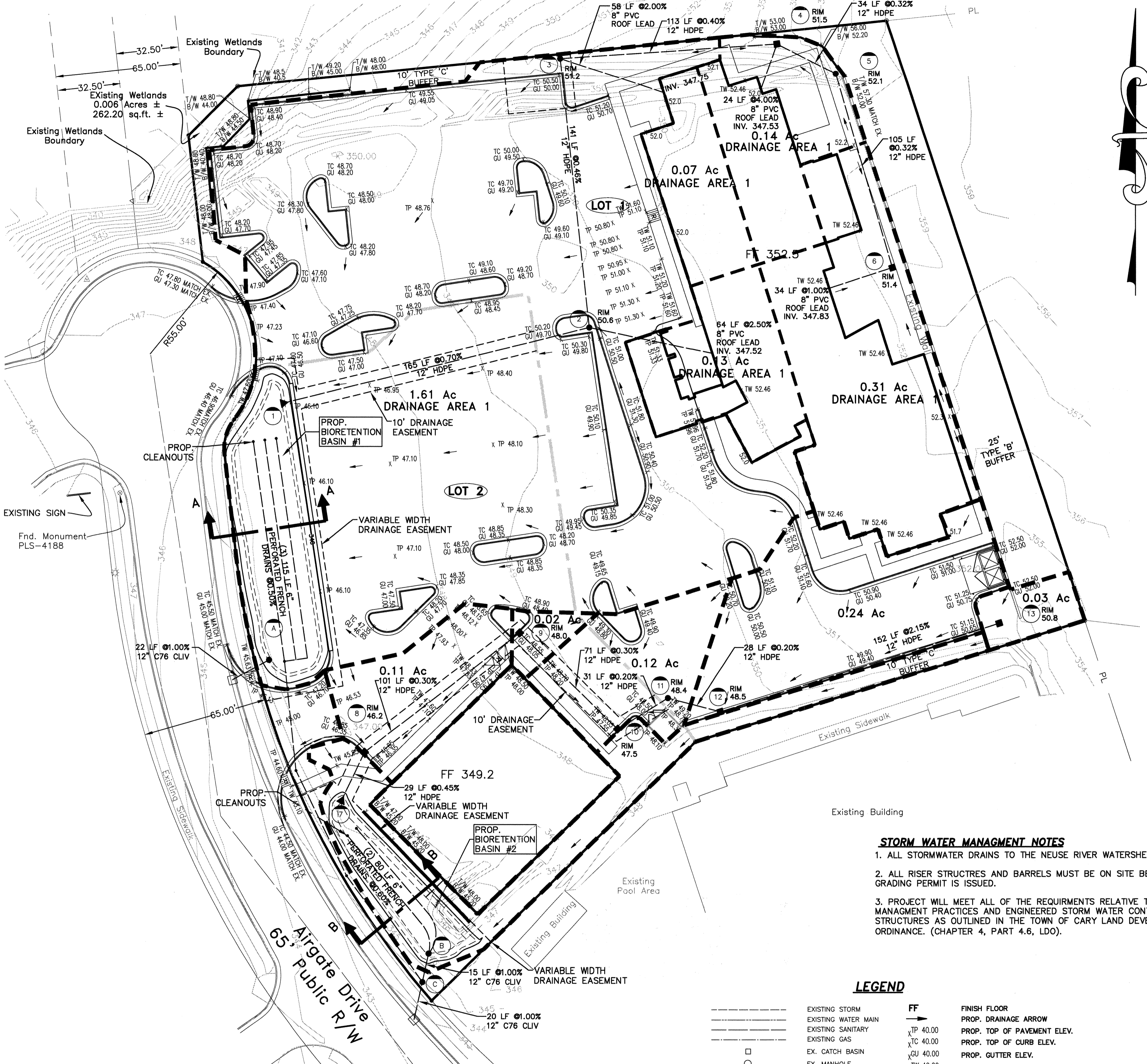
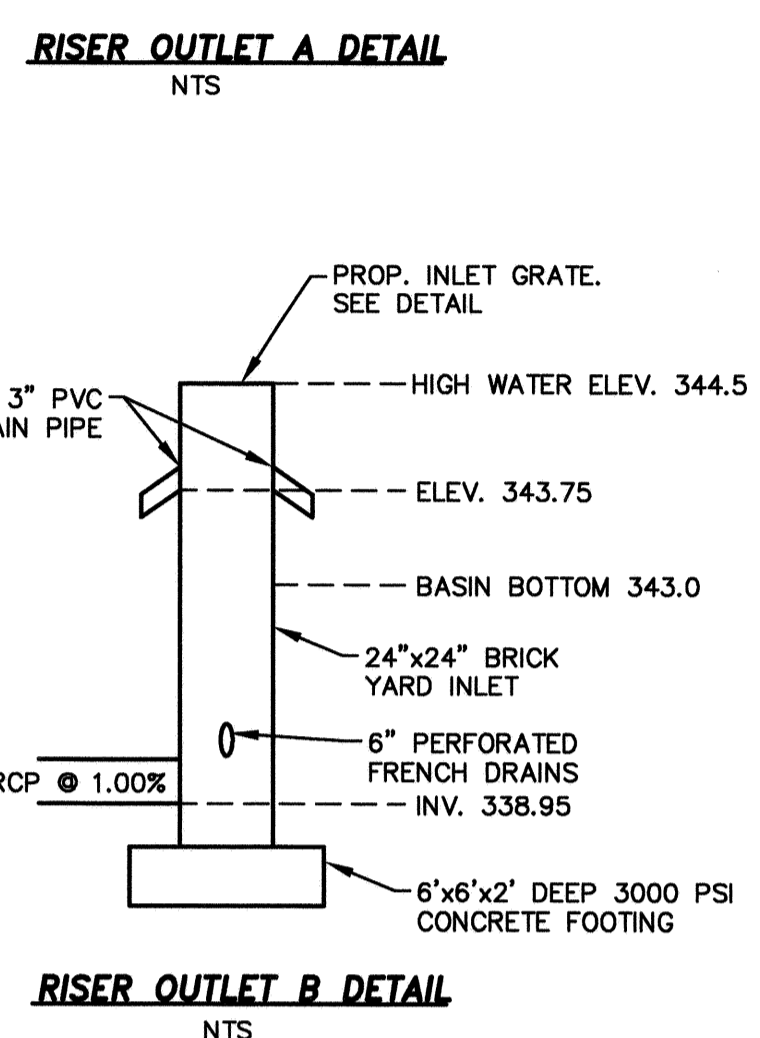
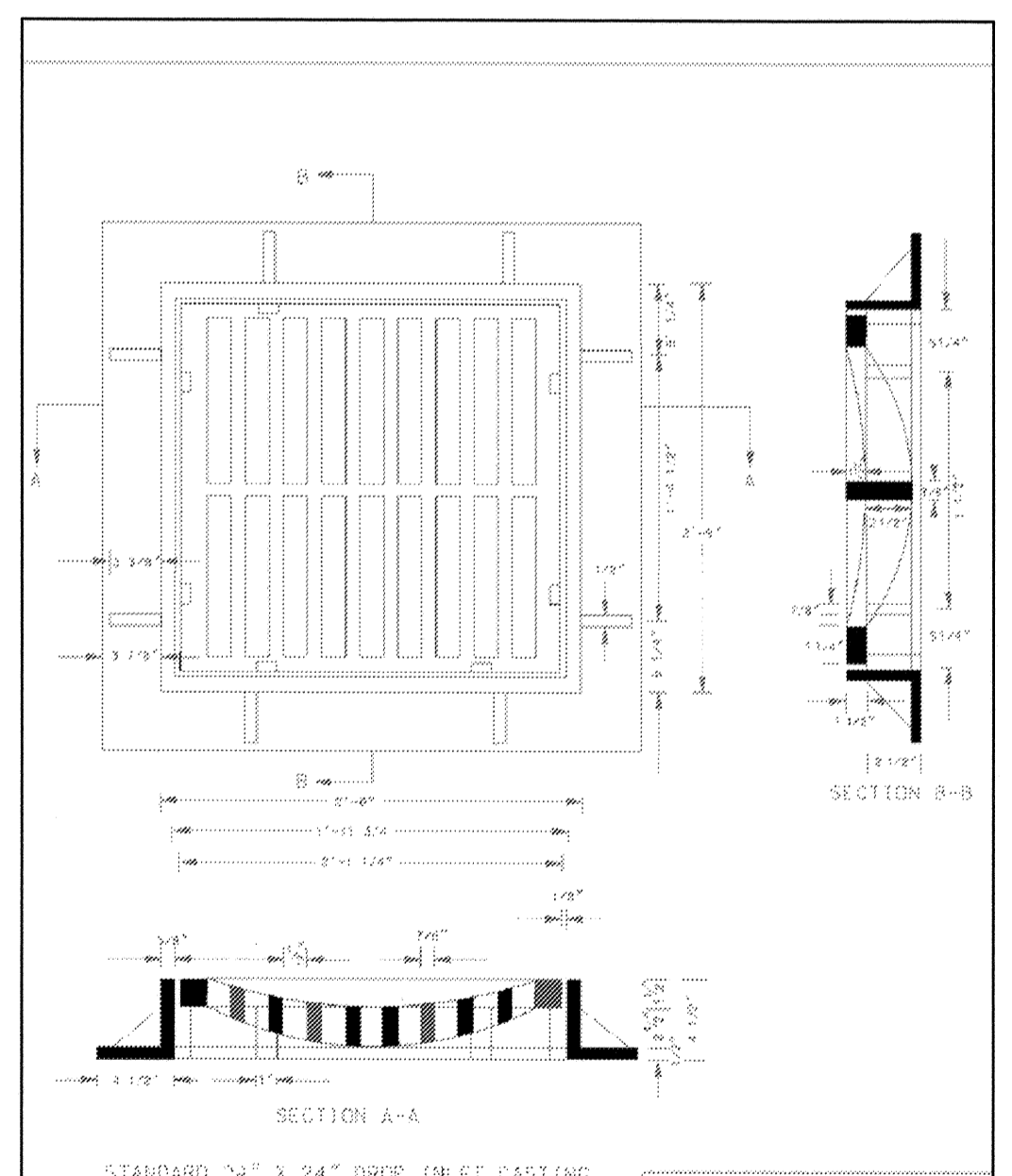


PLANTING MEDIUM NOTE:
 A HOMOGENOUS SOIL MIX OF 85-88 PERCENT CONSTRUCTION SAND; 8 TO 12 PERCENT FINES (SILT AND CLAY) AND 3 TO 5 PERCENT ORGANIC MATTER SHOULD BE USED. SOIL AMENDMENTS CAN BE ADDED ACCORDING TO THE PLANT SPECIES SELECTED. SOIL MEDIA SHOULD BE SENT TO NODA LABS TO BE ANALYZED AND FORWARDED ON TO ENGINEER PRIOR TO INSTALLATION. P-INDEX FOR THESE SOIL MEDIA SHOULD RANGE BETWEEN 15 AND 40.



STORM WATER MANAGEMENT NOTES
 1. ALL STORMWATER DRAINS TO THE NEUSE RIVER WATERSHED.
 2. ALL RISER STRUCTURES AND BARRELS MUST BE ON SITE BEFORE THE GRADING PERMIT IS ISSUED.
 3. PROJECT WILL MEET ALL OF THE REQUIREMENTS RELATIVE TO BEST MANAGEMENT PRACTICES AND ENGINEERED STORM WATER CONTROL STRUCTURES AS OUTLINED IN THE TOWN OF CARY LAND DEVELOPMENT ORDINANCE. (CHAPTER 4, PART 4.6, LDO).

LEGEND

---	EXISTING STORM	FF	FINISH FLOOR
---	EXISTING WATER MAIN	TP 40.00	PROP. DRAINAGE ARROW
---	EXISTING SANITARY	TC 40.00	PROP. TOP OF PAVEMENT ELEV.
---	EXISTING GAS	GU 40.00	PROP. TOP OF CURB ELEV.
□	EX. CATCH BASIN	TW 40.00	PROP. GUTTER ELEV.
○	EX. MANHOLE	SE 40.00	PROP. TOP OF WALK ELEV.
○	EX. END SECTION	940	PROP. SPOT ELEV.
○	SET IRON	---	PROP. CONTOUR
○	EX. GUY WIRE	---	PROP. CATCH BASIN
○	EX. TREE LINE	---	PROP. MANHOLE
○	FD. IRON	---	PROP. END SECTION
○	EX. MAILBOX	---	PROP. STORM SEWER
○	EX. POWER POLE	---	PROP. SANITARY SEWER
○	EX. SIGN	---	PROP. WATER MAIN
○		○	PROP. GATE VALVE
○		○	PROP. HYDRANT
○		○	PROP. SAN. STR. NUMBER
○		○	PROP. STM. STR. NUMBER
○		○	PROP. GATE VALVE NUMBER
○		○	PROP. HYDRANT NUMBER

STORM SEWER CALCULATIONS:

FROM MH INPUT	TO MH	INCREMENT ACRES (A)	C	EQUIV. AREA 100% ACRES CA	TOTAL AREA 100% ACRES SUM CA	T TIME (MIN)	I (IN PER HOUR)	Q-CIA C.F.S. FLOW	CAPACITY OF SEWER (C.F.S.)	DIAM. OF PIPE (IN.)	LENGTH OF LINE (FT.)	SLOPE OF PIPE (%)	MIN HG ON "Q" (%)	HG FOR GIVEN "D" (%)	ACTUAL HG (%)	VEL. FLOW FULL (FT./SEC.)	TIME OF FLOW (MIN.)	H.G. ELEV. UPPER END	H.G. ELEV. LOWER END	GROUND ELEV. UPPER END	GROUND ELEV. LOWER END	INVERT ELEV. UPPER END	INVERT ELEV. LOWER END
6	5	0.31	0.91	0.28	0.28	15.00	5.27	1.49	2.02	12	105	0.32	0.17	0.19	0.17	2.6	0.7	347.85	347.66	351.40	352.10	347.20	346.86
5	4	0.00	0.91	0.00	0.28	15.70	5.17	1.49	2.02	12	34	0.32	0.17	0.19	0.17	2.6	0.2	347.61	347.56	352.10	351.50	346.86	346.76
4	3	0.14	0.91	0.13	0.41	15.90	5.15	2.11	2.25	12	113	0.40	0.35	0.19	0.35	2.9	0.7	347.50	347.10	351.50	351.20	346.76	346.30
3	2	0.07	0.91	0.06	0.47	16.60	5.05	2.39	2.42	12	141	0.46	0.45	0.19	0.45	3.1	0.8	347.09	346.45	351.20	350.60	346.30	345.65
2	1	0.13	0.91	0.12	0.59	17.40	4.95	2.93	2.98	12	165	0.70	0.68	0.19	0.68	3.8	0.7	346.41	345.30	350.60	ES	345.65	344.50
13	12	0.03	0.91	0.03	0.03	15.00	5.27	0.14	4.86	12	152	1.86	0.00	0.19	1.86	6.2	0.4	347.39	344.56	350.80	348.50	346.59	343.76
12	11	0.24	0.91	0.22	0.25	15.40	5.21	1.28	1.59	12	28	0.20	0.13	0.19	0.13	2.0	0.2	344.54	344.51	348.50	348.40	343.76	343.71
11	10	0.00	0.91	0.00	0.25	15.60	5.19	1.28	1.59	12	31	0.20	0.13	0.19	0.13	2.0	0.3	344.48	344.44	348.40	347.50	343.71	343.64
10	9	0.12	0.91	0.11	0.35	15.90	5.15	1.83	1.95	12	71	0.30	0.26	0.19	0.26	2.5	0.5	344.42	344.23	347.50	348.00	343.64	343.43
9	8	0.02	0.91	0.02	0.37	16.40	5.08	1.89	1.95	12	101	0.30	0.28	0.19	0.28	2.5	0.7	344.21	343.93	348.00	346.20	343.43	343.13
8	7	0.11	0.91	0.10	0.47	17.10	4.99	2.36	2.39	12	29	0.45	0.44	0.19	0.44	3.0	0.2	343.93	343.80	346.20	ES	343.13	343.00

NOTICE:
 CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

NOTE:
 THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AS DISCLOSED BY AVAILABLE UTILITY COMPANY RECORDS AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE COMPANY. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF A CONFLICT IS APPARENT.

CLIENT: CAROLINA HOTELS & RESORTS LLC

STORM WATER MANAGEMENT PLAN

CAMBRIA SUITES - 300 AIRGATE DRIVE MORRISVILLE, NC 27560

REVISIONS:

NO.	DATE	DESCRIPTION

PER TOWN OF CARY 07-12-07
 PER TOWN OF CARY 06-07-07
 PER TOWN OF CARY 04-28-07

DATE: 03-08-07

DRAWN BY: TRS

CHECKED BY: BAR

FBK: _____

CHP: _____

SCALE: HOR 1" = 30 FT. VER 1" = 10 FT.

07-SP-018 APPROVED TOWN OF CARY

Approved by: [Signature] Date: 7/11/07
 Planning: [Signature] Date: 7/12/07
 Engineering: [Signature] Date: 7/12/07

COMMERCIAL: SITE PLANNING, SITE ENGINEERING, INDUSTRIAL & MULTI-UNIT CONSTRUCTION LAYOUT

SURVEYING: ALTA SURVEYS, BOUNDARY SURVEYS, TOPOGRAPHIC SURVEYS, PARCEL SPLITS, CONSTRUCTION LAYOUT

RESIDENTIAL: SUBDIVISIONS, SITE CONDOMINIUM, MULTI-FAMILY, CONSTRUCTION LAYOUT

ENGINEERING, INC. CIVIL ENGINEERS & LAND SURVEYORS

117 CENTRE WEST CT. CARY, NORTH CAROLINA 27513-2015

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