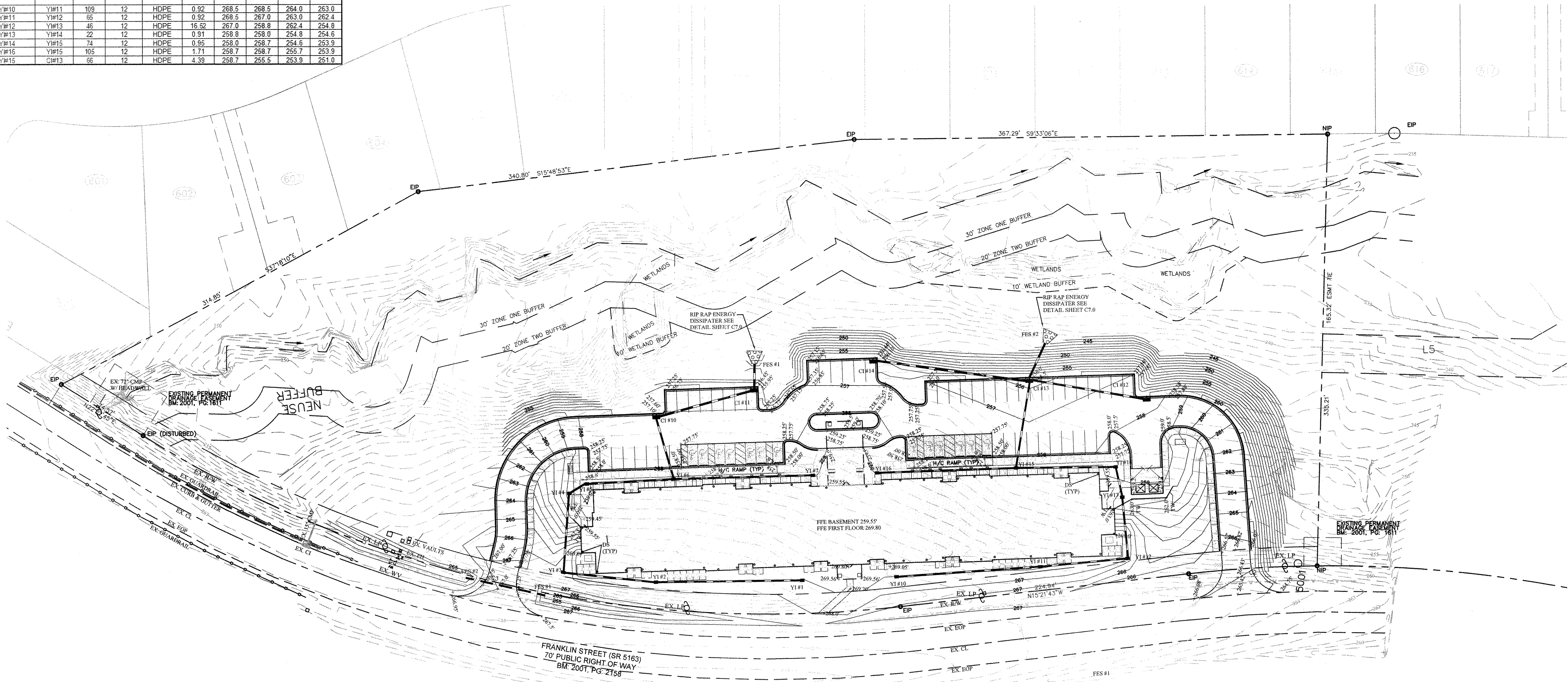


**Storm Drainage Pipe Summary**

From	To	Length (ft)	Diameter (Inches)	Material**	Slope (%)	Top (From)	Top (To)	Invert (From)	Invert (To)
FES#1	FES#2	64	15	RCP	1.80	-	-	264.5	263.35
CI#10	CI#11	73	15	HDPE	1.37	257.20	255.95	254.00	253.00
CI#11	FES#1	20	15	HDPE	2.50	255.95	-	253.00	252.50
CI#12	CI#13	87	15	HDPE	1.38	257.5	255.5	252.2	251.0
CI#14	CI#13	117	15	HDPE	2.56	256.1	255.5	254.0	251.0
CI#13	FES#2	30	15	HDPE	3.33	255.5	-	246.0	245.0
Y#1	Y#2	111	12	HDPE	1.35	268.5	268.5	264.0	262.5
Y#2	Y#3	70	12	HDPE	1.00	268.5	267.5	262.5	261.8
Y#3	Y#4	60	12	HDPE	9.67	267.5	258.8	261.8	256.0
Y#4	Y#5	12	12	HDPE	7.50	258.8	258.4	256.0	255.1
Y#5	Y#6	65	12	HDPE	0.92	258.4	258.7	255.1	254.5
Y#6	Y#7	105	12	HDPE	0.95	258.7	258.7	255.5	254.5
Y#6	CI#10	47	12	HDPE	1.06	258.7	257.2	254.5	254.0
Y#10	Y#11	109	12	HDPE	0.92	268.5	268.5	264.0	263.0
Y#11	Y#12	65	12	HDPE	0.92	268.5	267.0	263.0	262.4
Y#12	Y#13	46	12	HDPE	16.52	267.0	258.8	262.4	254.8
Y#13	Y#14	22	12	HDPE	0.91	258.8	258.0	254.8	254.6
Y#14	Y#15	74	12	HDPE	0.95	258.0	258.7	254.6	253.9
Y#15	Y#16	105	12	HDPE	1.71	258.7	256.7	255.7	253.9
Y#15	CI#13	66	12	HDPE	4.39	258.7	255.5	253.9	251.0

NOTES:  
1) TOP ELEVATIONS LISTED ARE TOP OF GRATE.

# GRADING PLAN



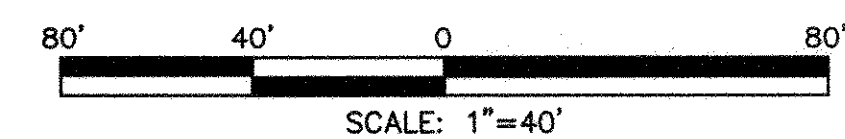
NOTES:  
1. YI #1-8, 10-16 SHALL BE 12" OVAL NYLOPLAST OR EQUAL.  
2. CONTRACTOR SHALL GRADE FOR POSITIVE DRAINAGE TO ALL INLETS AND AWAY FROM BUILDING.  
3. CONTRACTOR SHALL INSTALL AN 12" HDPE PERIMETER DRAIN AS SHOWN ON THE PLANS. ALL DOWN SPOUTS AND CONDENSATE LINES SHALL BE TIED TO PERIMETER DRAIN. USE 12" X 6" WYE/TEE OR 12" X 4" WYE/TEE FOR DOWN SPOUT TIE INS. COORDINATE DOWN SPOUT LOCATIONS WITH ARCHITECTURAL PLANS. PERIMETER DRAIN LOCATION SHALL BE REVIEWED WITH ENGINEER AND OWNER PRIOR TO INSTALLATION.  
4. ALL STORM DRAIN OUTSIDE OF RIGHT OF WAY BE CONSTRUCTED OF DOUBLE WALL HDPE.

NOTES:  
1) THE HANDICAPPED PARKING SPACES AND ACCESS AISLES MAY HAVE A 1/4 INCH PER FOOT MAXIMUM SLOPE IN ALL DIRECTIONS FOR DRAINAGE.  
2) ACCESSIBLE PARKING SHALL BE CONCRETE OR ASPHALT. CONTRACTOR SHALL COORDINATE MATERIAL WITH OWNER.  
3) RETAINING WALLS DESIGN SHALL BE COMPLETED BY CONTRACTOR AND SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA.

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF WAKE FOREST STANDARDS, SPECIFICATIONS, AND DETAILS.

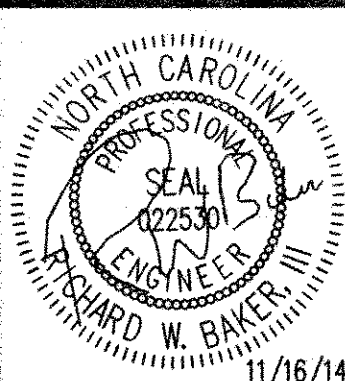
THESE PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE TOWN OF WAKE FOREST.

Engineering Department	Date
Public Works Department	Date 11-17-14
Erosion & Sediment Control	Date
Fine Prevention	Date 11-17-14
Accessibility	Date 11-17-14
Planning Department	Date
City of Raleigh Public Utilities Department	Date



NO.	REVISION	DATE
1	FIRST REVIEW TOWN OF WAKE FOREST	8/25/14
2	SECOND REVIEW TOWN OF WAKE FOREST	9/24/14
3	ADD PERIMETER DRAIN, REVISE GRADING	11/16/14

GRADING PLAN  
HUNTINGTON SPRING  
A SENIOR LIVING COMMUNITY  
FRANKLIN ST. WAKE FOREST NC



BAKER ENGINEERING CONSULTANTS, INC.  
Consulting Engineer  
C-3147  
605 ADAMS STREET  
RALEIGH, NORTH CAROLINA 27605  
TELEPHONE: (919) 417-3484

DATE: 04/30/14

DRAWN: RWB

SHEET:

C4.0