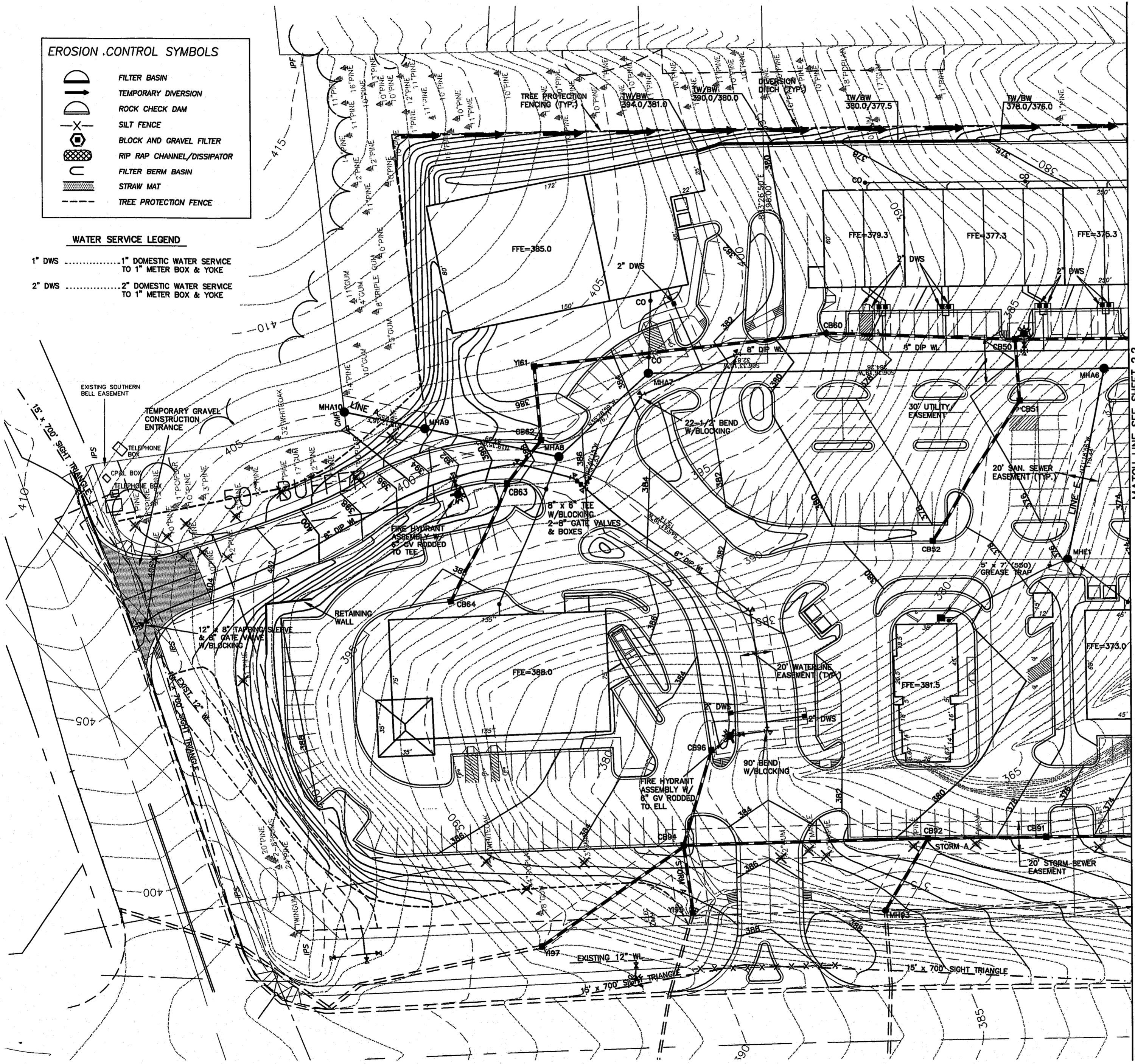


**EROSION CONTROL SYMBOLS**

- FILTER BASIN
- TEMPORARY DIVERSION
- ROCK CHECK DAM
- SILT FENCE
- BLOCK AND GRAVEL FILTER
- RIP RAP CHANNEL/DISSIPATOR
- FILTER BERM BASIN
- STRAW MAT
- TREE PROTECTION FENCE

**WATER SERVICE LEGEND**

- 1" DWS ..... 1" DOMESTIC WATER SERVICE TO 1" METER BOX & YOKE
- 2" DWS ..... 2" DOMESTIC WATER SERVICE TO 1" METER BOX & YOKE



**EROSION CONTROL NARRATIVE**  
WEST PARK PLACE  
CARY, NC 11/1/98

THE 15.3 ACRE SITE IS LOCATED AT THE SOUTHEAST QUADRANT OF THE INTERSECTION OF NC55 AND HIGH HOUSE ROAD. THE SITE WILL BE DEVELOPED AS A SHOPPING CENTER. SEDIMENT RUNOFF WILL BE CONTROLLED BY THE USE OF DIVERSION DITCHES AND SILT FENCE ALONG THE PERIMETER WITH A RISER SEDIMENT BASIN AND A FILTER BERM BASIN LOCATED AT EXISTING CULVERTS RUNNING BENEATH PARKSCENE LANE ON THE LOW END OF THE SITE. THE RISER BASIN WILL HAVE TWO 48" RISERS BUILT ONTO TWO EXISTING 30" RCP.

- EROSION CONTROL NOTES:**
- 1- THE DENUDEED AREA IS 14.6 ACRES.
  - 2- THE PERIMETER BUFFERS WERE ESTABLISHED BY THE APPROVED WEST PARK PUD.
  - 3- THE RECEIVING WATERCOURSE IS AN UNNAMED TRIBUTARY OF WHITE OAK CREEK IN THE JORDAN LAKE WATERSHED.
  - 4- NO FEMA MAPPED FLOODPLAIN EXISTS ON THIS SITE PER FRM # 371830290 DATED 9/92.
  - 5- ALL INLETS WILL BE PROTECTED WITH WIRE MESH AND GRAVEL INLET PROTECTION.
  - 6- ALL SLOPES WILL BE SEEDED FOR STABILIZATION AS SOON AS FINISHED GRADES ARE ESTABLISHED ON INDIVIDUAL SLOPES.
  - 7- NC55, HIGH HOUSE ROAD, AND PARKSCENE LANE WILL BE KEPT CLEAN OF SEDIMENT AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
  - 8- A PRE-CONSTRUCTION MEETING MAY BE REQUIRED BEFORE ISSUANCE OF A GRADING PERMIT.
- 9- ALL WATERSHED PROTECTION REQUIREMENTS ARE MET BY THE EXISTING POND IMMEDIATELY ACROSS PARKSCENE LANE FROM THE SITE. THIS POND WAS BUILT AS PART OF THE APPROVED WEST PARK PUD FOR THE PURPOSE OF MEETING THE WATERSHED REQUIREMENTS.

**THE OWNER IS:** SHELL OIL COMPANY  
PHYLLIS JACOBS, AGENT  
CRA MANAGEMENT  
8825 WESTVIEW  
HOUSTON, TEXAS 77055  
713-932-9898

**THE PERSON RESPONSIBLE FOR CONSTRUCTION IS:** JKH & ASSOCIATES  
MIKE PRINCE, AGENT  
412 GLASGOW ROAD  
CARY, NC 27511  
461-0004

**WEST PARK PLACE  
STORM DRAINAGE SUMMARY 11/3/97**

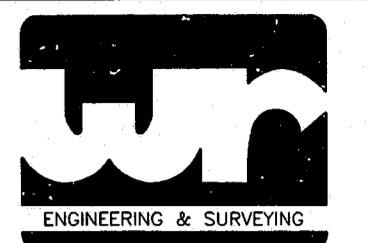
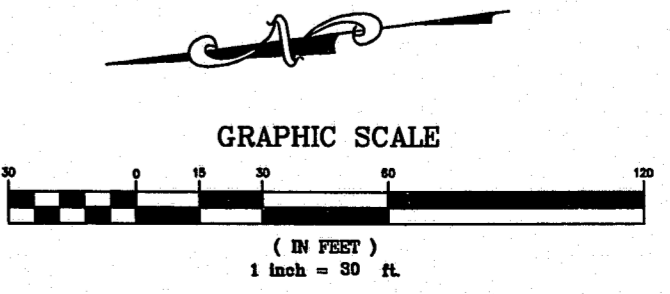
FROM	TO	TYP	TOP DIA (IN)	LTH (FT)	SLOPE (%)	AREA (AC)	C	Q10 (CFS)	INVERT DOWN	INVERT UP	
F10	CB11	CB11	336.2	30	44.0	7.00	0.1	0.85	85.9	326.00	329.08
CB11	CB12	CB12	335.5	12	40.0	6.00	0.2	0.85	4.2	331.00	334.20
CB12	CB13	CB13	341.9	12	38.0	2.00	0.3	0.7	3.0	336.40	337.12
CB11	CB20	CB20	345.5	30	103.0	6.80	0.2	0.85	81.1	330.04	338.10
CB20	CB21	CB21	353.8	12	108.0	6.00	0.1	0.85	4.3	340.77	350.10
CB21	CB22	CB22	345.5	12	60.0	2.00	0.6	0.85	3.7	350.20	351.40
CB20	CB29	CB29	348.4	30	38.0	8.00	0.2	0.85	75.6	338.20	342.24
CB29	CB30	CB30	354.5	30	24.0	10.00	0.6	0.85	74.4	343.00	345.40
CB30	CB31	CB31	358.2	24	128.0	3.50	0.3	0.85	36.8	348.00	352.41
CB31	CB32	CB32	365.1	24	188.0	4.20	0.8	0.8	35.0	352.51	355.41
CB32	CB33	CB33	368.5	12	62.0	3.00	1.0	0.85	6.1	362.00	363.88
CB32	CB40	CB40	368.5	24	58.0	4.20	0.3	0.85	24.3	360.51	362.95
CB40	CB41	CB41	373.9	15	124.0	3.40	0.2	0.85	7.0	363.48	367.70
CB41	CB42	CB42	374.8	15	105.0	2.00	1.0	0.8	5.8	367.00	369.80
CB40	CB50	CB50	376.3	18	171.0	4.30	0.2	0.85	15.5	363.05	370.40
CB50	CB51	CB51	375.8	15	38.0	1.20	0.6	0.85	6.8	370.50	370.86
CB51	CB52	CB52	379.3	12	100.0	3.50	0.5	0.85	3.1	371.05	374.58
CB50	CB60	CB60	378.3	15	118.0	3.10	0.2	0.85	7.5	370.53	374.19
CB60	CB61	CB61	380.0	12	186.0	3.20	1.0	0.5	6.3	374.29	380.88
CB61	CB62	CB62	380.8	12	62.0	1.20	0.2	0.8	3.8	380.86	381.40
CB62	CB63	CB63	382.2	12	80.0	1.00	0.6	0.6	2.8	381.50	382.40
CB61	CB64	CB64	383.5	12	80.0	1.00	0.3	0.5	2.1	380.20	382.36
CB30	CB70	CB70	368.2	24	85.0	2.30	0.2	0.85	33.9	347.98	350.17
CB70	CB71	CB71	368.4	24	164.0	2.00	0.3	0.85	31.7	350.27	353.36
CB71	Y172	Y172	368.0	18	55.0	1.00	1.5	0.5	5.4	353.45	354.00
CB71	CB80	CB80	361.3	24	138.0	2.00	0.2	0.5	24.5	352.24	355.00
CB80	CB81	CB81	365.5	12	82.0	1.00	0.3	0.8	1.7	355.00	357.12
CB80	CB80	CB80	369.5	18	164.0	5.70	0.7	0.5	22.1	355.10	364.45
CB80	CB91	CB91	376.7	18	180.0	3.80	0.2	0.5	19.6	364.55	371.39
CB91	CB92	CB92	378.8	18	74.0	3.80	0.2	0.5	18.9	371.48	374.30
CB92	MH93	MH93	387.2	18	52.0	2.70	0.5	0.85	3.1	376.50	377.80
CB92	CB94	CB94	383.5	18	152.0	2.20	0.7	0.5	15.1	374.40	377.74
CB94	Y85	Y85	387.0	18	42.0	1.50	3.0	0.4	13.0	378.00	378.83
CB94	CB98	CB98	383.5	12	80.0	1.00	0.2	0.4	0.6	376.00	378.60

**NOTES:**  
- ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH CURRENT TOWN OF CARY STANDARD SPECIFICATIONS AND DETAILS.  
- Y1 IS YARD INLET WITH CONCRETE SLAB TOP. TOC STD 8.01. TOP = TOP OF SLAB.  
- G1 IS YARD INLET WITH GRATE AND FRAME. TOC STD 8.02. TOP = TOP OF GRATE.  
- CB IS CATCH BASIN. TOC STD 8.03. TOP = TOP OF CURB.  
- MH IS MANHOLE. TOC STD 8.05. TOP = TOP OF COVER.  
- F IS FLARED END SECTION.  
- ALL PIPE IS CLASS III RCP UNLESS NOTED OTHERWISE. "H" DENOTES HIGH DENSITY POLYETHYLENE PIPE (HDPE). "D" DENOTES CLASS 60 DIP.  
- ALL CB, GI, AND Y1 WILL RECEIVE WIRE MESH AND GRAVEL INLET PROTECTION.

**WEST PARK PLACE  
ENERGY DISSIPATOR SUMMARY 11/1/98**

STRUCTURE	#	LENGTH (FEET)	DIMENSIONS (FEET)	DEPTH (FEET)	CLASS	AVG. STONE RIP DIAMETER (INCHES)
FES 10	15	20	2.5	2	1	.
FLUME	10	10	2.0	1	.	.

**NOTE:**  
- ALL DISSIPATORS WILL BE LAID ON MIRAFI 140N GEOFABRIC.  
- CLASS 2 RIP RAP SHALL VARY IN WEIGHT FROM 25 TO 250 POUNDS. AT LEAST 80% OF THE TOTAL WEIGHT SHALL BE IN PIECES WEIGHING A MINIMUM OF 100 POUNDS EACH. NOT MORE THAN 5% OF THE TOTAL WEIGHT OF THE RIP RAP MAY BE IN INDIVIDUAL PIECES WEIGHING LESS THAN 50 POUNDS EACH.  
- CLASS 1 RIP RAP SHALL VARY IN WEIGHT FROM 5 TO 200 POUNDS. AT LEAST 30% OF THE TOTAL WEIGHT SHALL BE IN INDIVIDUAL PIECES WEIGHING A MINIMUM OF 50 POUNDS EACH. NOT MORE THAN 10% OF THE TOTAL WEIGHT MAY BE IN PIECES WEIGHING LESS THAN 15 POUNDS EACH.



**WITHERS & RAVENEL**  
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Cary, N.C. 27511  
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FAX : 919-467-6008

SEALS

**PRELIMINARY**  
NOT APPROVED FOR CONSTRUCTION

**DRAWING TITLE**  
**DETAILED GRADING, UTILITIES, & EROSION CONTROL PLAN**

**PROJECT TITLE**  
**WEST PARK PLACE**

**REVISIONS**

NUMBER	DESCRIPTION	DATE
1	TOC 1ST REV COMMENTS	11/1/98
2	PER TOC 2ND REVIEW	12/14/98
3	PER TOC 3RD REVIEW	1/8/99

DRAWN BY DOU  
CHECKED BY LGS  
DATE ISSUED 11/3/97  
SCALE 1"=30'  
JOB NO. 96184

SHEET NO. **2.1**