



PIER & SPREAD FOOTER SCHEDULE FOR TYPICAL FOUNDATION DETAIL									
FDN No.	TOTAL REQ'D	PIER		SPREAD FOOTER		ANCHOR BOLT PLAN	CU YDS CONCRETE PER FDN	TOTAL	
		SIZE	"x"	SIZE	"x"				
1	8	2'-0" x 2'-0"	2'-4"	5'-0" x 5'-0"	12"	"x"	1.30	10.40	
2	2	3'-0" x 3'-0"	3'-0"	6'-0" x 6'-0"	12"	"x"	2.33	4.67	
3	2	2'-0" x 2'-0"	3'-0"	6'-0" x 6'-0"	12"	"x"	1.78	3.56	
4	2	2'-0" x 2'-0"	2'-6"	4'-0" x 4'-0"	12"	"x"	0.96	1.92	
5	10	2'-0" x 2'-0"	3'-0"	5'-0" x 5'-0"	12"	"x"	1.37	13.70	
6	5	2'-0" x 2'-0"	3'-0"	4'-0" x 4'-0"	12"	"x"	1.11	5.55	
7	4	6'-0" DIAMETER	12'-0"	N/A	N/A	N/A	8.3	34.0	
8	2	4'-0" DIAMETER	8'-4"	N/A	N/A	N/A	3.0	6.0	

PAD SCHEDULE						
PAD No.	TOTAL REQ'D	PAD SIZE		ANCHOR BOLT PLAN	CU YDS CONCRETE PER FDN	TOTAL
		LENGTH x WIDTH	DEPTH			
1	1	16'-0" x 10'-0"	2'-6"	N/A	14.81	14.81
2	1	8'-0" x 3'-0"	2'-0"	"x"	1.33	1.33
3	5	5'-0" x 3'-0"	2'-0"	"x"	1.11	5.55

BILL OF MATERIAL			
ITEM	TOTAL QUANTITIES (FOR ENTIRE PROJECT)**	SUPPLIED BY:	DESCRIPTION
REBAR	3,896	CONTRACTOR	LBS. OF REBAR
CONCRETE	101.5	CONTRACTOR	CUBIC YARDS OF CONCRETE
AB-1	60	M.D. HENRY Co. Inc.	3/4"x 3'-0" ANCHOR BOLT W/2-HRN. 2-FW
AB-2	8	S&C ELECTRIC CO. Inc.	1"x 3'-0" ANCHOR BOLT W/2-HRN. 2-FW
AB-3	46	M.D. HENRY Co. Inc.	1"x 3'-4" ANCHOR BOLT W/2-HRN. 2-FW
AB-4	24	G.U.C.	3/4"x 1'-6" MACH. BOLT W/2-HRN. 2-FW. 1'-4" 50/FW

\*\*QUANTITIES SHOWN HERE ARE FOR STRUCTURE/EQUIPMENT FOUNDATIONS ONLY AND DO NOT INCLUDE REQUIREMENTS FOR CONTROL HOUSE FOUNDATION OR DUCT BANKS FOR CONDUITS IF INDICATED.

- NOTES**
- THE FOUNDATION CONTRACTOR SHALL AT ALL TIMES FULLY COMPLY WITH ALL OSHA STANDARDS, AS WELL AS THE OWNER'S SAFETY STANDARDS, AS A MINIMUM, ESPECIALLY WITH REGARD TO SHORING OF ALL EXCAVATIONS. THE ENGINEER OR OWNER WILL IMMEDIATELY HALT CONSTRUCTION ACTIVITIES IF THE CONTRACTOR DOES NOT COMPLY WITH THESE STANDARDS. FAILURE TO IMMEDIATELY COMPLY WITH THESE STANDARDS WILL RESULT IN DISMISSAL FROM THE PROJECT.
  - THE FOUNDATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF OSHA STANDARDS AS WELL AS THE OWNER'S SAFETY STANDARDS. COPIES SHALL BE AVAILABLE ON SITE AT ALL TIMES DURING CONSTRUCTION.
  - ALL FOUNDATIONS TO BE CARRIED TO FIRM UNDISTURBED EARTH.
  - REINFORCING STEEL SHALL BE GRADE 60 ASTM A-615 OR A-617.
  - THE RODS SHALL BE LAPPED A MINIMUM OF 6'.
  - FOR QUANTITY, LENGTH & SHAPE OF REINFORCING RODS, SEE REBAR TABLES & BENDING LEGEND.
  - CONCRETE SHALL BE 4000 P.S.I. @ 28 DAYS. CONCRETE SHALL BE AIR ENTRAINED WITH AN AIR CONTENT BETWEEN FOUR AND SIX PERCENT (4%-6%).
  - CONCRETE SLUMP SHALL BE BETWEEN THREE AND FOUR INCHES (3"-4"). THE CONTRACTOR SHALL MAKE OR HAVE MADE A MINIMUM OF ONE (1) SLUMP TEST IN ACCORDANCE WITH ASTM C 143 FOR EACH TRUCKLOAD OF CONCRETE DELIVERED.
  - CONCRETE COVER OVER REINFORCING STEEL SHALL BE THREE INCHES (3") MINIMUM.
  - ALL CONCRETE TO BE THOROUGHLY VIBRATED DURING PLACEMENT INTO FORMS TO ENSURE ALL VOIDS ARE FILLED.
  - ALL FOUNDATIONS SHALL BE CHAMFERED ONE INCH (1") ALL AROUND TOP EDGES.
  - TO DETERMINE ANCHOR BOLT SPACING, SEE ANCHOR BOLT PATTERN INDICATED. SEE FOUNDATION/ANCHOR BOLT SUMMARY FOR DIAMETER, EMBEDMENT LENGTH, THREAD & HOOK REQUIREMENTS.
  - CAREFUL EXAMINATION OF ANCHOR BOLT ORIENTATION MUST BE MADE IN THAT AN X-AXIS & Y-AXIS SYSTEM HAS BEEN INDICATED ON BOTH FOUNDATION PLAN & DETAIL DRAWINGS TO ENSURE PROPER ORIENTATION.
  - ANCHOR BOLT SPACING & EQUIPMENT BASE PLATES SHALL BE VERIFIED TO BE CORRECT PRIOR TO POURING CONCRETE.
  - AFTER FABRICATION ALL ANCHOR BOLTS ARE TO BE HOT DIP GALVANIZED A MINIMUM OF 2" PAST NOTED THREAD LENGTH.
  - SEE FOUNDATION PLAN - DRAWING No. FFD-1 FOR TOP OF FOUNDATION ELEVATIONS.
  - FOUNDATION PLAN ELEVATIONS ARE BASED ON THE SUBGRADE. THE SUBGRADE WILL BE TOPPED WITH THREE INCHES (3") OF CRUSHED RUN & THREE INCHES (3") OF WASHED STONE TO ACHIEVE FINAL GRADE.
  - ALL CONDUITS, WHEN REQUIRED, ARE TO BE PLUGGED OR CAPPED DURING INITIAL CONSTRUCTION TO PREVENT CONTAMINATION.
  - THE CONTRACTOR SHALL PREPARE, OR HAVE PREPARED, IN ACCORDANCE WITH ASTM C-31, FOUR (4) TEST CYLINDERS FROM EACH TRUCKLOAD OF CONCRETE DELIVERED TO THE SITE, WITHIN 20-24 HOURS AFTER BEING PREPARED. THE CYLINDERS SHALL BE DELIVERED TO A QUALIFIED TESTING LABORATORY AND TESTED IN ACCORDANCE WITH THE CONCRETE SPECIFICATIONS AND ASTM C-39.
  - THE CONTRACTOR SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE CONCRETE SPECIFICATIONS.

LEGEND		
	NEW FOUNDATIONS TO BE INSTALLED	
	FUTURE FOUNDATIONS TO BE INSTALLED AT A LATER DATE	

THIS DOCUMENT  
ORIGINALLY ISSUED  
AND SEALED BY  
JAMES C. TURLEY,  
20762, ON 3/8/96  
THIS MEDIA SHOULD  
NOT BE CONSIDERED A  
CERTIFIED DOCUMENT

NO.	REVISIONS	DATE

GREENVILLE UTILITIES COMMISSION  
GREENVILLE, NORTH CAROLINA

PROCTOR & GAMBLE  
115 TO 15 kV SUBSTATION  
FOUNDATION PLAN

DWN:AJA	DATE: 3/8/96	DWG. NO.
CHK:AJA/ACT	APPR:ACT	140-4065
SCALE: 3/32"=1'-0"	PLOT: 1-128	FP1 OF 1

REFERENCE		
FOUNDATION DETAILS - PIER	140-4065	FD1 OF 3
FOUNDATION DETAILS - PAD	140-4065	FD2 OF 3
FOUNDATION DETAILS - SPECIAL	140-4065	FD3 OF 3
CONDUIT & TRENCH PLAN	140-4065	GPI OF 1
GROUNDING PLAN	140-4065	GPI OF 1
OIL CONTAINMENT PLAN	140-4065	OCT OF 3

PLAN VIEW  
SCALE: 3/32"=1'-0"

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