

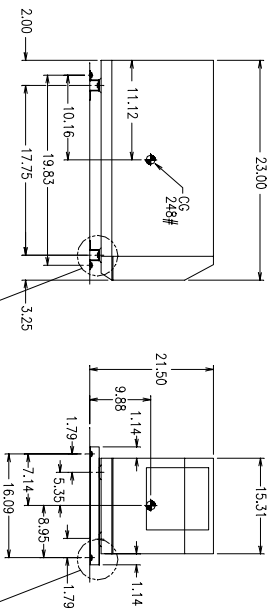
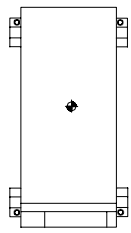
NOTES: UNLESS OTHERWISE SPECIFIED

1. THE ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE SUPPORTING STRUCTURE INCLUDING ACCESS TOOR PANEL TO RESIST THE GRAVITY AND
2. WHEN INSTALLING GRUPEL-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCEMENT. PREPARE A NON-DESTRUCTIVE METHOD FOR LOCATING EXISTING PRESTRESSED CONCRETE (PRE) OR POST-TENSIONED LOCAL PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLING GRUPEL-IN ANCHORS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHORS.
3. ANCHORAGE DESIGNED PER CURRENT CODE OF REGULATIONS, TITLE 24, PART 2, 1998 EDITION, USING TABLE 168-4, F<sub>y</sub>=70 MPa, WHERE Z<sub>4-4</sub> IS 1.5 (96) IN (2439) mm.
4. REFER TO SECTION 4.5.
5. ASSUMPTIONS: THE CONCRETE IS TO BE SET IN SHALL BE 3000 PSI (20.7 MPa) MINIMUM. STRUCTURAL ANGLE OR PLATE SHALL BE ASTM A-36 MINIMUM.
6. VERIFY ANCHOR TYPES, NO SUBSTITUTIONS OF MEMBERS ALLOWED.
7. TEST ANCHORS AS FOLLOWS:

TEST VALUES			
HEARDBLOCK OR LIGHTWEIGHT CONCRETE			
ANCHOR DIA. (IN)	WEDGE TORQUE (FT-LEBS)	SLEEVE TORQUE (FT-LEBS)	SHELL TORQUE (FT-LEBS)
3/8"	800	400	1000
1/2"	1100	550	1400
5/8"	1500	750	1900
3/4"	2000	1000	2700
1"	2800	1400	3600

- a. SHELL TYPE ANCHORS SHOULD BE TESTED AS FOLLOWS: VISUALLY INSPECT FOR FULL EXPANSION AS EVIDENCED BY THE LOCATION OF THE EXPANSION FLUE IN THE ANCHOR BODY, FLUE LOCATION OF A FULLY EXPANDED ANCHOR SHALL BE WITHIN THE MANUFACTURER'S RECOMMENDED RANGE OF SIZE RECOMMENDATIONS, AS DETERMINED ON THE JOB SITE FOLLOWING THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND PROOF LOAD 5% AS INDICATED IN THE TABLE ABOVE, BUT NOT LESS THAN THREE TIMES THE LOAD FOR EACH ANCHOR. VISUALLY INSPECT FOR FULL EXPANSION, 5% TEST LOAD OF THE INSTALLED ANCHORS PER 1926B3.5.
- b. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOMMENDED PROCEDURES.
- c. THE FOLLOWING METHOD FOR THE PROPER INSTALLATION OF INSTALLED ANCHORS: THE FOLLOWING METHOD FOR THE PROPER INSTALLATION OF INSTALLED ANCHORS: THE APPLICABLE TEST LOAD, FOR WEDGE AND SLEEVE TYPE ANCHORS, A PORTION AT LEAST OF ESTIMATED OBSERVABLE MOMENT IS THAT THE WASHER UNDER THE NUT TORQUE WRENCH LIMITS. THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: ONE-HALF (1/2) TURN OF THE NUT FOR WEDGE OR SLEEVE TYPE; ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 IN. SLEEVE ANCHOR ONLY.
- d. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT.
- e. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASSES THEN RESUME THE INITIAL TESTING FREQUENCY.

REV	CHK	NO.	DESCRIPTION	DATE	BY	CHKR	ENGR
0	ENR	4000	REVISED NOTES	2-9-00	QAO	RJM	QJP



SEE SHEET 2 OF 2 FOR DETAILS

DATA	DESCRIPTION	APPROVED	DATE
DATE	2000-2999	DATE	2000-2999
PROJECT	FE 3.1 KVA SEISMIC ANCHORAGE, CENTER OF GRAVITY	DATE	2000-2999
SCALE	NONE	DATE	2000-2999