

DWG NO. 2715 G01 SH 1 REV E

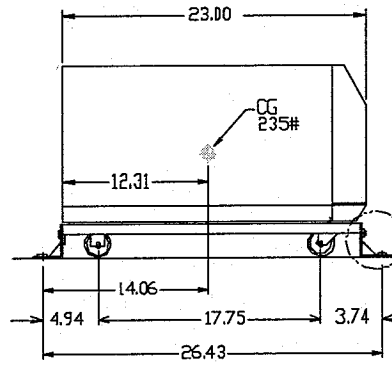
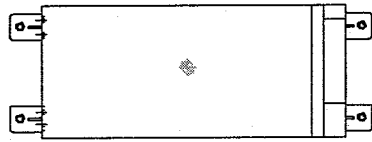
NOTES UNLESS OTHERWISE SPECIFIED

1. THE ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE SUPPORTING STRUCTURE INCLUDING ACCESS FLOOR PANEL TO RESIST THE GRAVITY AND LATERAL LOAD FROM THE EQUIPMENT.
2. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR.
3. ANCHORAGE DESIGNED PER CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, 1999 EDITION, USING TABLE 168-3 F_p = 2 (1 C_p V_p), WHERE Z + 1 = 1.5 C_{ph} = 1 C_{ps} = 33.
4. TEST STANDARD BELLCORE TECHNICAL REFERENCE TR-EDP-00063 ISSUE 3, MARCH 1998, SECTION 4.5.
5. ASSUMPTIONS THE CONCRETE THAT THE "HDK" IS TO BE SET ON SHALL BE 3100 PSI OLD P.C.F. MINIMUM. STRUCTURAL ANGLE OR PLATE SHALL BE ASTM A-36 MINIMUM.
6. AGENCY CRITICAL PARTS. NO SUBSTITUTIONS OF MATERIALS ALLOWED.
7. TEST ANCHORS AS FOLLOWS:

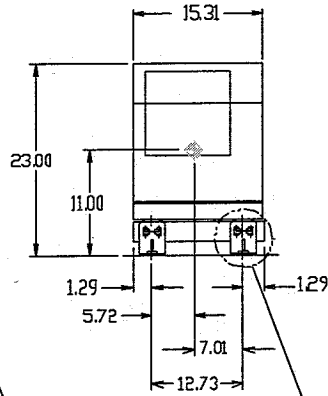
TEST VALUES						
HARDENED OR LIGHTWEIGHT CONCRETE						
ANCHOR DIA. (IN)	WEDGE		SLEEVE		SHELL	
	LOAD (LBS)	TORQUE (FT-LBS)	LOAD (LBS)	TORQUE (FT-LBS)	LOAD (LBS)	TORQUE (FT-LBS)
1/4	800	10	400	4	1000	-
5/16	-	-	400	5	1400	-
3/8	1000	25	700	10	1800	-
1/2	2000	50	900	20	2700	-
5/8	2700	80	1100	45	3700	-
3/4	3700	150	1400	90	5400	-
1	5000	250	-	-	-	-

- a. SHELL TYPE ANCHORS SHOULD BE TESTED AS FOLLOWS: VISUALLY INSPECT 25% FOR FULL EXPANSION AS EVIDENCED BY THE LOCATION OF THE EXPANSION PLUG IN THE ANCHOR BODY. PLUG LOCATION OF A FULLY EXPANDED ANCHOR SHOULD BE AS RECOMMENDED BY THE MANUFACTURER, OR, IN THE ABSENCE OF SUCH RECOMMENDATION, 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 ANCHORS PER DAY FOR EACH DIFFERENT PERSON OR CREW INSTALLING ANCHORS, OR; TEST 50% OF THE INSTALLED ANCHORS PER 1923B.3.5.
- b. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
- c. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS: HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT.
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 ANCHORS.
- e. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

REVISIONS						
REV	CHG. NO.	DESCRIPTION	DATE	BY	CHKR	ENGR
D	ECN-6405	NO CHANGES TO THIS SHEET - SEE SHEET 2	8-30-99	GRD	CDP	CDP
E	ECN-6500	REVISED NOTES	2-9-00	GRD	RCM	CDP



SEE SHEET 2 OF 2 FOR DETAILS



SEE SHEET 2 OF 2 FOR DETAILS

CAD SYSTEM AUTOCAD	DIMENSION TOLERANCE UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES UNLESS NOTED	APPROVED DRAWN BY: RJW CHECKED BY: DSK DATE: 4-15-91	BEST POWER A L N G N I A S U N A P.O. BOX 280 MEDFORD, VT 05753 (802) 888-1200
DATABASE 0000/2000-2999	INDICES & INCL. DIM. DIM = 0.00 EXCL. DIM. DIM = 2.00 ANGLES = X	ENGINEER RM 4-13-91	TITLE CASTER OPTION, FE 1.8 KVA SEISMIC ANCHORAGE, CENTER OF GRAVITY
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		DATE 2715 G01	REV E
			SHEET 1 OF 2