

DWG NO. 2676 GOL SH 1 REV D

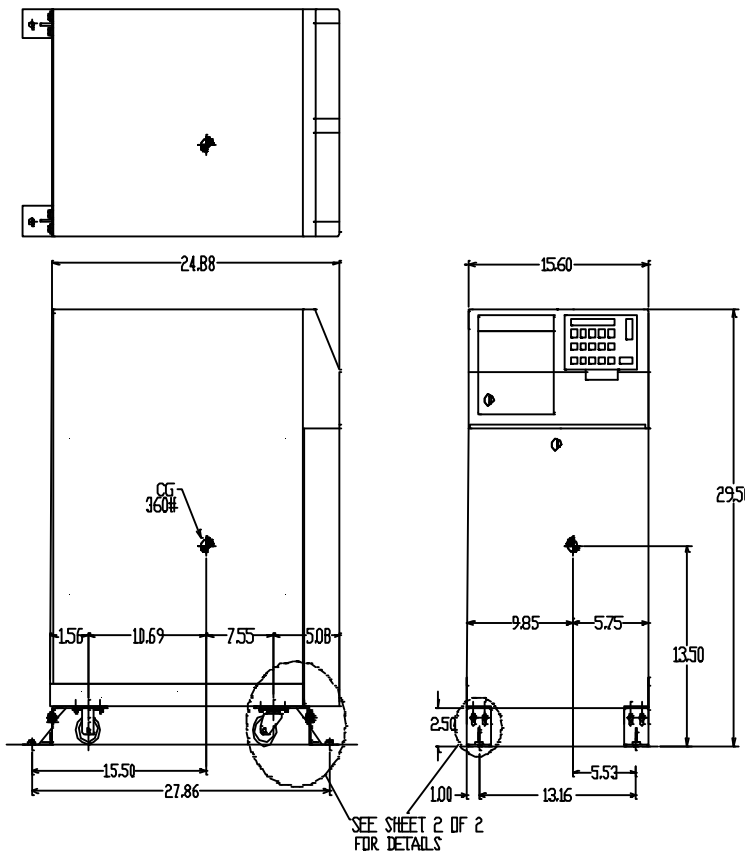
NOTES: UNLESS OTHERWISE SPECIFIED

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.
2. ANCHORAGE DESIGNED PER CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, 1978 EDITION, USING TABLE 1607-D, $F_p = 2.1 C_p W_p$, WHERE $Z = A I = 1.5$, $C_p = 1.0$, $C_p = 3.3$.
4. TEST STANDARD: BELLCORE TECHNICAL REFERENCE TR-EDP-00063 ISSUE 2, MARCH 1988, SECTION 4.3.
5. ASSUMPTIONS: THE CONCRETE THAT THE "40M" IS TO BE SET IN SHALL BE 3000 PSI (20 MPA) 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 HARDROCK 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	1100	25	700	10	1800	--
1/2	2000	50	900	20	2700	--
5/8	2800	80	1100	45	3700	--
3/4	3700	150	1400	90	5400	--
L	5800	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 1923R.3.3.
- 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
0	EDN-6580	REVISED NOTES	2-7-00	GED	ROM	CIP



CAD SYSTEM AUTOCAD		DIMENSION TOLERANCE		APPROVED		BEST POWER	
DATABASE 0.c.a.d/2000-2999		PROPRIETARY		DRAWN BY RJM 4-25-91		DATE 4-15-91	
PROPRIETARY INFORMATION IN THIS DOCUMENT IS THE EXCLUSIVE PROPERTY OF BEST POWER. UNIT OF GENERAL SIGNAL AND MAY BE USED SOLELY FOR INSTALLATION OR SERVICE OF BEST POWER'S PRODUCTS. ANY OTHER USE, EXPRESSLY PROHIBITED. THIS DOCUMENT MUST NOT BE REPRODUCED WITHOUT BEST POWER'S WRITTEN PERMISSION AND MUST BE RETURNED TO BEST POWER UPON DEMAND.		CHECKED BY DSK 4-15-91		DATE 4-13-91		P.O. BOX 280 WISCONSIN, WI 53018 (608) 545-7200	
		DESIGNED BY RM 4-13-91		STANDARD ORIGIN		FE 4.3KVA SEISMIC ANCHORAGE, CENTER OF GRAVITY	
		DATE: DIM. XX - & 02 DES. DIM. XXX - & #01 ANGLES ± 2°		STANDARD ORIGIN		SIZE (DWG NO.) B 2676 GOL	
		COUNTRY ORIGIN		SCALE: NONE		REV D	
DO NOT SCALE DRAWING		PART NO.		SCALE: NONE		SHEET 1 OF 2	