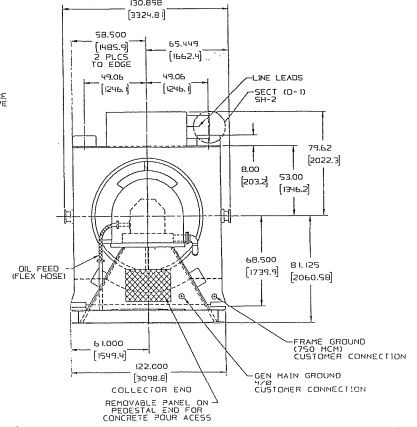
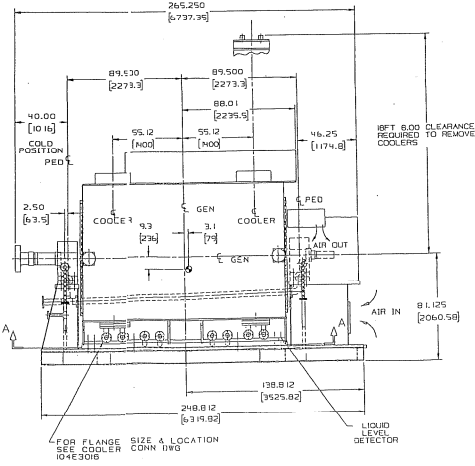
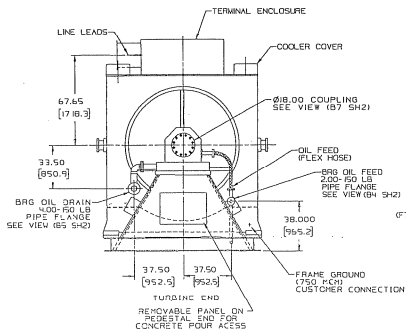
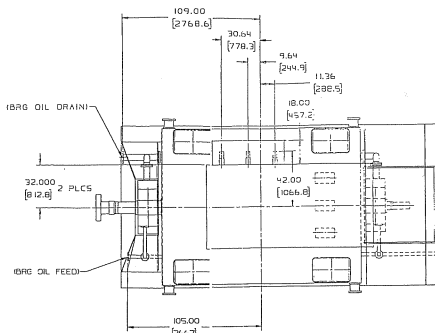
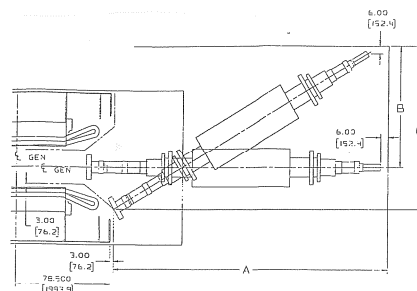
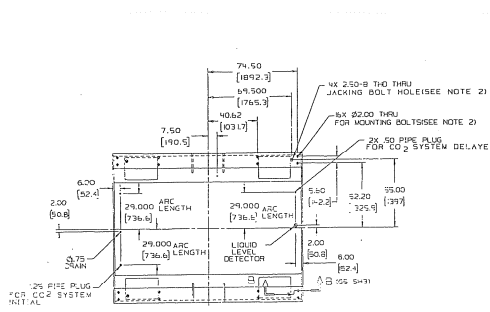


- NOTES:
 1 FOR COOLING WATER FLANGE CONNECTION LOCATIONS & SIZE REFER TO CONNECTION OUTLINE 104E3016
 2 MOUNTING AND JACKING HOLES FOR FRAME TO BASE
 3 FOR FOUNDATION INSTALLATION INSTRUCTIONS SEE GEN
 4 NOTE PRESENCE OF 1 INCH GROUT BARS UNDER BASE 1-BEAMS. REFERENCE SHEET 3, ZONES D7 AND E5





DISTANCE REQUIRED TO REMOVE GEN ROTOR

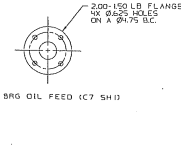
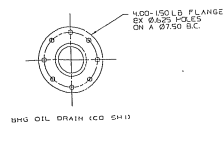
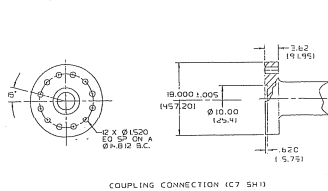
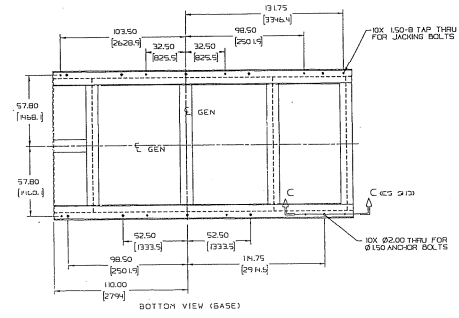
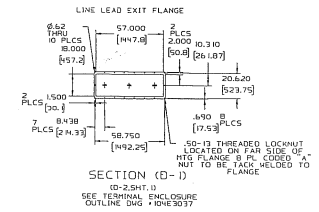
METHOD OF REMOVING	A	B	C
STRAIGHT PULL	22FT12.00 (6756.4)		
CANTING HORIZONTALLY	19FT1.00 (5816.4)	4FT7.00 (1292.0)	11FT7.00 (3539.4)

OVERALL ROTOR LENGTH + 20FT 6.00 (6246.4) APPROX
 LARGEST DIAMETER OF ROTOR BODY + 32.00 (912.8) APPROX

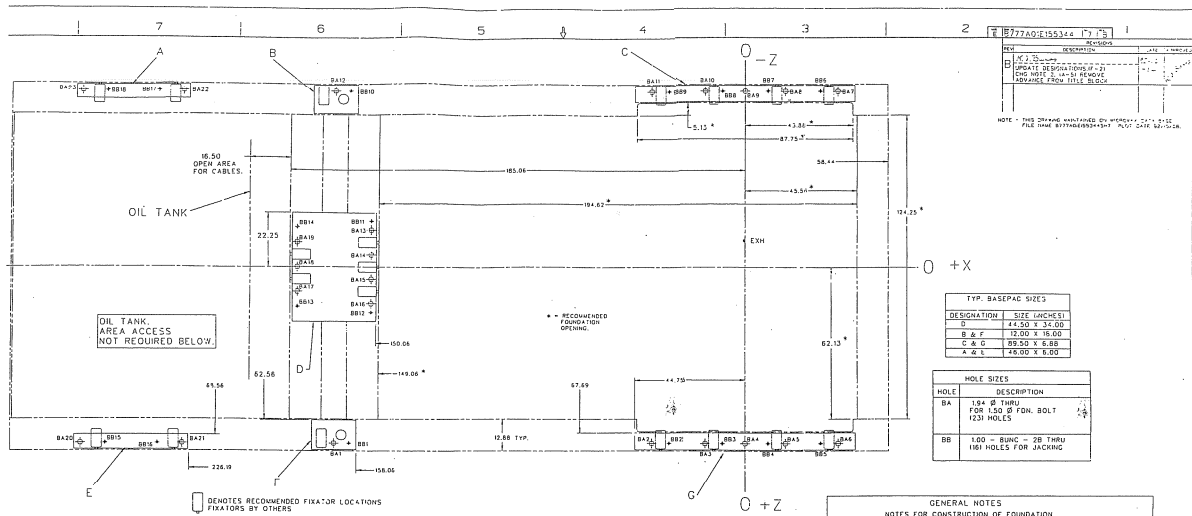
GENERATOR SIZE

APPROXIMATE WEIGHTS

SHIPPED WEIGHTS	APPROXIMATE WEIGHTS
STATOR	121,000
ROTOR	26,000
BASE	32,000
TERMINAL ENCLOSURE	3,700
PEDESTAL (2)	10,000
EXCITER HOUSING (BRUSHLESS)	2,000
COOLER PACKAGE	8,000
SHIPPED WEIGHT	182,700



GENERATOR MECHANICAL OUTLINE
 DWG. 104E2951, REV. C, SHT. 2



TYP. BASEPAD SIZES

DESIGNATION	SIZE (INCHES)
B	44.50 X 34.00
B & F	12.00 X 16.00
C & G	89.50 X 6.88
A, D, E	42.00 X 8.00

HOLE SIZES

HOLE	DESCRIPTION
AA	1.84 Ø THRU FOR L&D FOR. BOLT 1231 HOLES
BB	1.00 - BUNG - 28 THRU 181 HOLES FOR JACKING

PLAN VIEW - BASE PAD ARRANGEMENT

NO.	DESCRIPTION	REMARKS
1	BB1	12.00 X 16.00
2	BB2	12.00 X 16.00
3	BB3	12.00 X 16.00
4	BB4	12.00 X 16.00
5	BB5	12.00 X 16.00
6	BB6	12.00 X 16.00
7	BB7	12.00 X 16.00
8	BB8	12.00 X 16.00
9	BB9	12.00 X 16.00
10	BB10	12.00 X 16.00
11	BB11	12.00 X 16.00
12	BB12	12.00 X 16.00
13	BB13	12.00 X 16.00
14	BB14	12.00 X 16.00
15	BB15	12.00 X 16.00

AXIAL REACTIONS IX - DIRECTION

LOAD DESCRIPTION	LOAD LOCATION AT PAD (SEE OUTLINE)	A	B	C	D	E	F	G
DEAD WEIGHT		14,200	14,500	148,500	12,700	14,300	17,200	21,300
IMPACT		---	---	---	---	---	---	---
INTERNAL EXPANSION		---	---	---	---	---	---	---
FRICTION		---	---	---	---	---	---	---
CONDENSER		---	---	---	---	---	---	---
TOTAL		---	---	---	---	---	---	---

VERTICAL REACTIONS IX - DIRECTION

LOAD DESCRIPTION	LOAD LOCATION AT PAD (SEE OUTLINE)	A	B	C	D	E	F	G
DEAD WEIGHT		14,200	14,500	148,500	12,700	14,300	17,200	21,300
IMPACT		---	---	---	---	---	---	---
INTERNAL EXPANSION		---	---	---	---	---	---	---
FRICTION		---	---	---	---	---	---	---
CONDENSER		---	---	---	---	---	---	---
TOTAL		---	---	---	---	---	---	---

FORCES AND MOMENTS ON MAJOR CONNECTIONS

- MAXIMUM ALLOWABLE PRISM FORCES, B&M AND MOMENTS OF LEAD FROM THE TOTAL DEAD FORCE AND MOMENT RESOURCES TO THE HIGH PRESSURE BEARING CENTERLINE.
 - F1 TOTAL VERTICAL FORCES 8500 LBS
 - F2 TOTAL HORIZONTAL FORCES 8000 LBS
 - M1 TOTAL MOMENT ABOUT THE X AXIS 10000 FT-LBS
 - M2 TOTAL MOMENT ABOUT THE Y AXIS 10000 FT-LBS
- AT ANY CONNECTION THE RESULTANT MOMENT, MR, IS DEFINED AS $M_x = \sqrt{M_1^2 + M_2^2}$
- MAXIMUM ALLOWABLE FORCES AND MOMENTS AT THE INLET CONNECTION (A&B) ARE:
 - MR 10000 FT-LBS
 - MR 10000 FT-LBS
- MAXIMUM ALLOWABLE FORCES AND MOMENTS AT BEARING CENTER FOR THE COLUMN LISTED BELOW. THE SUM OF THE RESULTANT FORCES AND MOMENTS MUST NOT EXCEED THE TABULATED LIMITS.
 - MR 10000 FT-LBS
 - MR 10000 FT-LBS
- MAX VERTICAL LOAD ON EXHAUST CONNECTION INCLUDING VACUUM 12400 LBS 12400

TRANSVERSE REACTIONS IX - DIRECTION

LOAD DESCRIPTION	LOAD LOCATION AT PAD (SEE OUTLINE)	A	B	C	D	E	F	G
DEAD WEIGHT		14,200	14,500	148,500	12,700	14,300	17,200	21,300
IMPACT		---	---	---	---	---	---	---
INTERNAL EXPANSION		---	---	---	---	---	---	---
FRICTION		---	---	---	---	---	---	---
CONDENSER		---	---	---	---	---	---	---
TOTAL		---	---	---	---	---	---	---

- NOTES: 1) THE VERTICAL STEADY STATE LOADS ARE A SUMMATION OF DEAD WEIGHTS, STEADY STATE TORQUE, PIPING, AND VACUUM LOADS. FRICTION AND PIPING LOADS. DYNAMIC LOADS ARE DUE TO POTENTIAL UNBALANCES, AND ARE AT A FREQUENCY OF 60 HZ ON ALL PADS. IMPACT LOADS ARE THOSE IMPROSED AT MAXIMUM EXPECTED VALUES. TORQUE CONDITIONS. ALL ABOVE LOADS ARE MAXIMUM POTENTIAL PEAK.
- 2) IMPACT LOADS ON PAD D ARE POSITIVE (DOWNWARD) FORCE ON THE A, B & C SIDE AND NEGATIVE (UPWARD) FORCE ON THE E, F & G SIDE. IMPACT LOADS ON PADS A, B & C ARE POSITIVE. IMPACT LOADS ON PADS E, F & G ARE NEGATIVE. TOTAL PAD LOADS DO NOT INCLUDE NEGATIVE VALUE LOADS. THEY REFLECT DOWNWARD LOADS ONLY TO SHOW MAXIMUM DOWNWARD FORCES, UPWARD FORCES MUST BE ADDED SEPARATELY.

GENERAL NOTES
NOTES FOR CONSTRUCTION OF FOUNDATION

- AT THE PROPER QUALITY OF CONCRETE FOR THIS WORK HAS TO BE USED.
- STEEL REINFORCEMENT BARS IN CONCRETE MUST BE PROVIDED IN ACCORDANCE WITH REINFORCED CONCRETE PRACTICE.
- THE FOUNDATION SHOULD BE SUFFICIENTLY REINFORCED AND THE MACHINE ALIGNMENT PERMANENTLY HELD WITHOUT BEING RESUBMITTED AT OPERATING SPEED. THE REQUIRE CONSIDERATION OF THE DEFLECTION OF THE FOUNDATION IN THE VERTICAL AND HORIZONTAL DIRECTIONS, AS WELL AS THE STRESS IN THE MATERIALS.
- THE FOUNDATION SHOULD HAVE SUFFICIENT RIGIDITY TO MINIMIZE THE POSSIBILITY OF LOCAL SETTLEMENT, LOCAL SETTLEMENT OF ANY PART OF THE FOUNDATION THAT PRODUCES A WAR IN THE TURBINE SHAFT BEARING. EFFECT THE OPERATION AND MAINTENANCE OF THE MACHINE.
- GENERAL ELECTRIC CO. SHALL BE THE TURBINE SYSTEMS DEPT. DOES NOT IMPROSE ANY SPECIFIC DESIGN CRITERIA FOR FOUNDATIONS. GENERAL ELECTRIC CO. INSTRUCTION FOUNDATION DESIGN & CONSTRUCTION (GEC-1933).
- ISSUE BY THE GE/JM STEAM TURBINE DEPT. MAY BE USED AS A GUIDELINE AS IT CONSIDERS THE REQUIREMENTS FOR FOUNDATION DESIGN INCLUDING CRITERIA FOR FOUNDATION SETTLEMENT, OVERTURNING, RESONANCE, AND OTHER DESIGN CONSIDERATIONS.
- RESONANT VIBRATION OF THE FOUNDATION AS A WHOLE OR ANY OF ITS PARTS SHOULD BE AVOIDED AS FAR AS POSSIBLE TO PREVENT DAMAGE TO THE STRUCTURE OR EQUIPMENT AND LOSS OF OPERATING EFFICIENCY.
- THE DEPTH OF EXCAVATION FOR THE FOUNDATION BLOCK MUST BE DECIDED IN RELATION TO THE SOIL CHARACTERISTICS. THE BLOCK MUST BE WORKING ON FIRM GROUND SUITABLE FOR FOUNDATION.
- IF THE FOUNDATION BLOCK MUST NOT BE JOINED TO ANY OTHER STRUCTURE, THIS IS TO AVOID VIBRATION TRANSMISSION.
- IF NECESSARY FOUNDATION SUPPORT MUST BE PROVIDED UNDER ALL BASEPAC PADS.
- IF A BE ANCHORED NON-SWAPPING GROUP TO BE POWERED AFTER PLACEMENT OF ALL SUPPORTED MACHINERY.
- 100 LBS JACKING BOLTS ARE REFERRED TO AS IN BASE PLACEMENT. THESE BOLTS SHOULD NEVER BE USED TO SUPPORT THE TOTAL UNIT WEIGHT.
- FIXATOR LOAD LIMIT IS 15000 LBS PER FIXATOR.

NO.	DESCRIPTION	REVISION
1	ISSUED FOR CONSTRUCTION	
2	FOR 100 LBS JACKING BOLTS	
3	FOR 100 LBS JACKING BOLTS	
4	FOR 100 LBS JACKING BOLTS	
5	FOR 100 LBS JACKING BOLTS	

NO.	DESCRIPTION	REVISION
1	ISSUED FOR CONSTRUCTION	
2	FOR 100 LBS JACKING BOLTS	
3	FOR 100 LBS JACKING BOLTS	
4	FOR 100 LBS JACKING BOLTS	
5	FOR 100 LBS JACKING BOLTS	