

*** INCLUDES ROTOR WEIGHTS**



TYPICAL FOUNDATION BOLT ARRANGEMENT FOR COMMON FOUNDATION FRAME



FOUNDATION PLAN

SPEEDS

1. BOILER FEED PUMP:	144 KG M ²
2. BOOSTER PUMP:	8.4 KG M ²
3. HYDRAULIC COUPLING INPUT SHAFT:	1508 KG M ²
OUTPUT SHAFT:	41.2 KG M ²
4. MOTOR:	2040 KG M ²

PLATES 44050x25 THICK (BHEL SCOPE) EMBEDDED IN 8.5M FLOOR(TOP OF
 PLATE 8.5M) LOAD ON EACH FOUNDATION PLATE 2100 K.GG
 FOR FIXING CARTRIDGE WITHDRAWAL GEAR

NOTE - A
MOTOR FOUNDAT

1. MAX. FORCE CALCULATED FROM THE MAX. SUDDEN TORQUE (100%RESIDUAL FIELD)MS = 327 KN.
2. FORCE EXERTED BY THE WEIGHT ON EACH SIDE G = 115 KN.
3. FOUNDATION LOAD ON EACH SIDE

COMPRESSIVE, STRESS A = $M_s + G = 442\text{KN}$.; TENSILE STRESS. B = $M_s - G = 212\text{KN}$

NOTE

NOTE - D

1. FOR GENERAL ARRANGMENT OF MD BFP SET,REFER DRG.NO. HY-DG-284-139-001

2. ALL ELEVATIONS ARE W.R.T TO TG HALL FINISHED FLOOR LEVEL WHICH IS EL.0.00M

3 ALL GRUPTINGS ARE IN THE SCOPE OF RHEI -PSEP

[illegible]

4. REF. BEHL / PEM DRG. PE-DG-284-100-M003 FOR COLUMNS & OPENINGS LOCATION

***CERTIFIED THAT THIS DRAWING IS EXACTLY IDENTICAL TO THE**

CORRESPONDING FINAL APPROVED DRAWING FOR NTPC KORBAL

NTPC Drg No. 2140-108-110-04HY-PVM-B-023. REV-01
 BUFI D-C No. 240-130-0001 REV No. 01st

BHCL D/G NO. H1-DG-249-139-0001, REV NO-01
^
EXCEPT

01	COLUMN NO. & LOCATION.
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THE UNIVERSITY OF CHICAGO

NIPC DRG. NO. 0330-110-HY-PVC-B-112-REV.01

ABAYAIL POWER CO	BYT	ITD

ALFVENS & LOWEN CO. 1 V1: EID.

3x500 MW ARAVALI STPP, JHAJJAR

STEAM TURBINE GENERATOR PACKAGE

	NAME	SIGN.	DATE	NO.
STEAM LOBBY RENOVATION PACKAGE				

[illegible]

CHD.		06 02 08
P.K. GUPTA		

HYDERABAD	06.02.00	06.02.00
APPD. B. RAJKUMAR		

DEPT	PLUMBS	SCALE	WEIGHT (KG)	REF TO ASSY DRG	ITEM	NO
				CALL	00.02.00	

SET: PUMPS	SCALE	UNIT: (FT)	FILE: TO ADD: DRW:	IT: NO. N/A
	4.08	N/A	N/A	

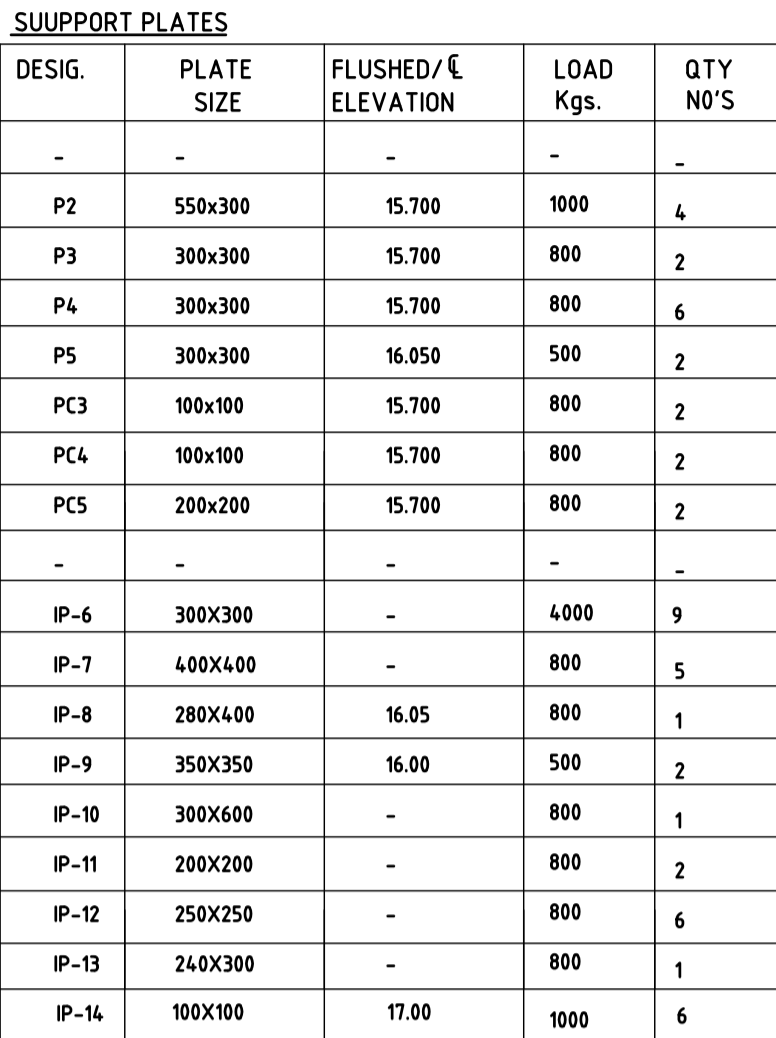
CODE	410	\oplus	1:28	MA	MA	MA
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TITLE	DRAWING NO.	R
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FOUNDATION ARRANGEMENT	HY-DG-284-139-0001	C
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OF MOTOR DRIVEN BFP UNIT	SHEET NO. 01	NO OF SHEETS.
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[illegible][illegible]

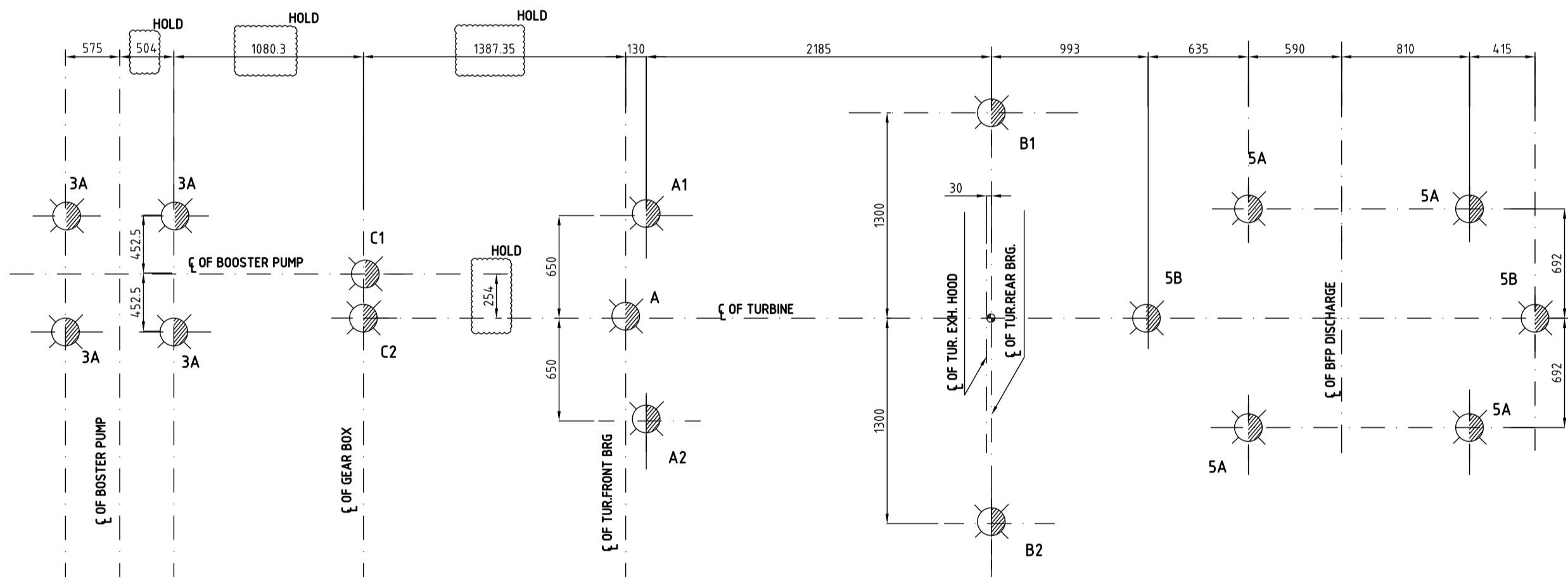


NOTES:-

1. THIS DRG IS VALIED FOR BOTH TDBFP'S (A & B)
2. ALL SUPPORT PLATES SHALL BE IN THE SCOPE OF BHEL POWER SECTOR.
3. SPRINGS HEIGHT AND LOCATIONS ARE TO BE DECIDED BY CIVIL DESIGNER.

LEGEND:-

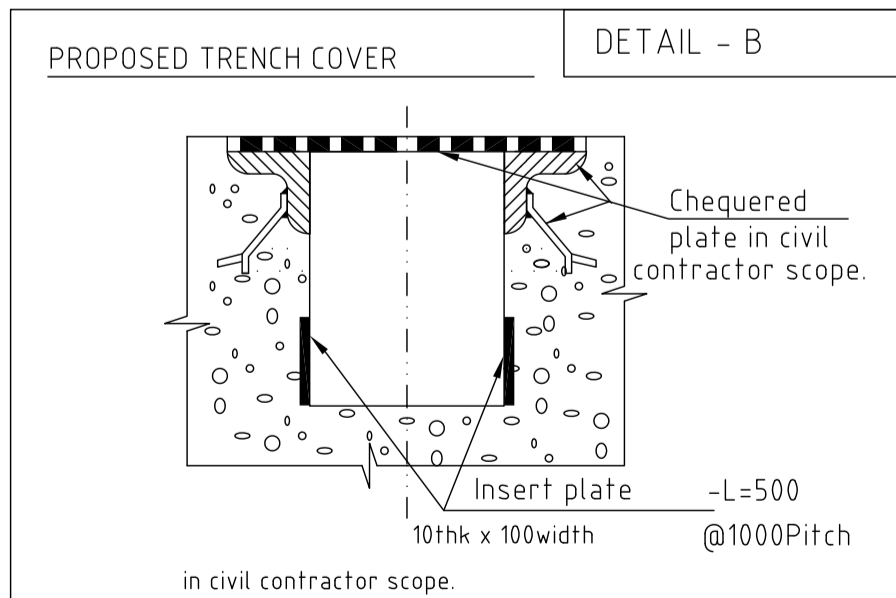
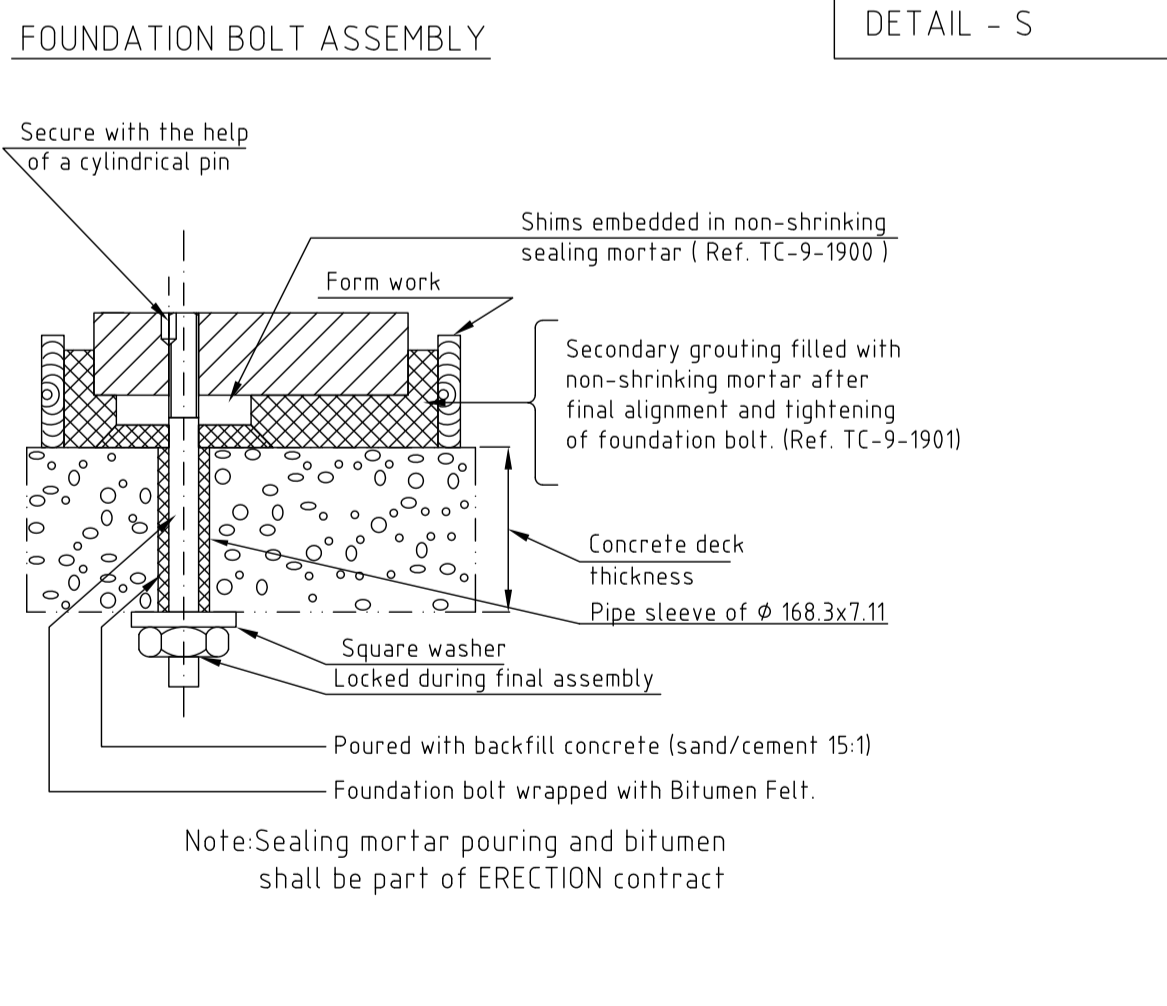
1.  INDICATES LOAD POINTS.
2.  SUPPORT PLATE AT BOTTOM OF SLAB.
3.  INSULATION FOR FOUNDATION PROTECTION



LOCATION OF LOAD POINTS ON FOUNDATION TOP DECK (FOR PUMP-A&B)

PROJECT : <div style="text-align: center; font-size: 1.2em; font-weight: bold;"> FERDZ GANDHI UNCHAHAR THERMAL POWER PLANT (1X500MW) </div>																					
OWNER : <div style="border: 1px solid black; padding: 2px; display: inline-block;"> एन सी एल NTPC </div>		<div style="font-size: 1.5em; font-weight: bold; margin-bottom: 5px;"> <i>NTPC Limited</i> </div> <div style="font-size: 0.8em;">(A GOWERMENT OF INDIA ENTERPRISE)</div>																			
MAIN CONTRACTOR : <div style="border: 1px solid black; height: 40px; margin-top: 5px;"></div>		<div style="font-weight: bold; font-size: 1.1em;"> NTPC BHEL Power Projects Private Limited </div> <div style="font-weight: bold; font-size: 1.1em; margin-top: 5px;"> एनटीपीसी बीएचएल पावर प्रोजेक्ट्स प्राइवेट लिमिटेड </div> <div style="font-size: 0.9em; margin-top: 5px;"> (A Joint Venture Company of NTPC & BHEL) </div>																			
Y.S.R. Puram, Village Mannavaram, Sri Kalahasti Mandal, Distt. Chittoor - 517620 (A.P.)																					
<div style="border: 1px solid black; padding: 5px; font-weight: bold; font-size: 0.8em;"> बीएचएल </div>		BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <tr> <td style="width: 15%;">DRN</td> <td style="width: 45%;">NAME</td> <td style="width: 20%;">SIGN</td> <td style="width: 20%;">DATE</td> <td style="width: 10%;">NO OF VAR.</td> </tr> <tr> <td>CHD</td> <td>G.N.PAWAR</td> <td rowspan="2" style="text-align: center; vertical-align: middle;"> </td> <td>06.01.14</td> <td></td> </tr> <tr> <td>APPD</td> <td>G.N.PAWAR</td> <td>06.01.14</td> <td>-N.A.-</td> </tr> </table>		DRN	NAME	SIGN	DATE	NO OF VAR.	CHD	G.N.PAWAR		06.01.14		APPD	G.N.PAWAR	06.01.14	-N.A.-		
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CHD	G.N.PAWAR		06.01.14																		
APPD	G.N.PAWAR		06.01.14	-N.A.-																	
DEPT. TCEP CODE.	UNTOL DIMS. GR. CODE.		SCALE 1:30	WEIGHT (KG) -N.A.-	REF. TO ASSY. DRG. -N.A.-	ITEM NO. -N.A.-	NO. OF ITEMS -N.A.-														
TITLE FOUNDATION ARRANGEMENT FOR BFP & DRIVE TURBINE					CARD CODE N.A.	DRAWING NO. (1-313-01-09635) HY-TC-MPA1040-0111	REV. 00														
					SHT. No 01	NO. OF SHT. 03															

NOTE :- The installation details shown here are only informative. For final installation, ref. the Assembly drawings furnished alongwith the respective equipment.



- × At each supporting point acting in radial direction over 360 deg.
- × Loads on either side of TG axis act in opposite directions and the direction changes at 50 cycles/sec.

NOTE :-1. DOWNWARD FORCES ARE POSITIVE
2. GRADE OF BALANCING: TURBINE: A:16, BFP, BP:G2.5
3. MASS MOMENT OF INERTIA: TURBINE:95.42Kg. Sq.m.
BFP :144 Kg. Sq.m
BP : 8.4 Kg. Sq.m } GD²

SPEEDS:

EQUIPMENT	OPERATING MARGIN	RATED DESIGN	TRIP SPEED	CRITICAL SPEEDS
TURBINE	1495 TO 5740	5260	6012	7550

STATUS :
PRELIMINARY

PROJECT :

PEROZ GANDHI UNCHAHR MATHEMAL POWER PLANT

(1X500MW)

OWNER :

एन टी पी सी

NTPC

NTPC Limited

(A GOVERNMENT OF INDIA ENTERPRISE)

MAIN CONTRACTOR :

NTPC BHEL Power Projects Private Limited

एन टी पी सी बीएचईएल पावर प्रोजेक्ट्स प्राइवेट लिमिटेड

(A Joint Venture Company of NTPC & BHEL)

Y.S.R. Puram, Village Mannavaram, Sri Kalahasti Mandal, Distt. Chittoor - 517620 (A.P.)

भारत भारती

BHARAT HEVY ELECTRICALS LTD.

HYDERABAD

NAME	SIGN.	DATE	NO OF VAR.
C.BALAJI		06.01.14	
G.N.PAWAR		06.01.14	N . A .
G.N.PAWAR		06.01.14	

DEPT. T.E.E.P

UNTLT. DMS. GR.

SCALE 1:30

WEIGHT (KG) -N-A-

REF. TO ASSY. DRG. -N-A-

ITEM NO. -N . A .

NO OF ITEMS -N . A .

CODE C 15

TITLE

FOUNDATION ARRANGEMENT FOR BFP & DRIVE TURBINE

CARD CODE

N . A .

DRAWING NO. (1-313-01-06035)

HY-TC-MPA104-0-111

10 OF SHT 03

REV.

00

10

11

SHT. No 03

No 10 OF SHT 03

12