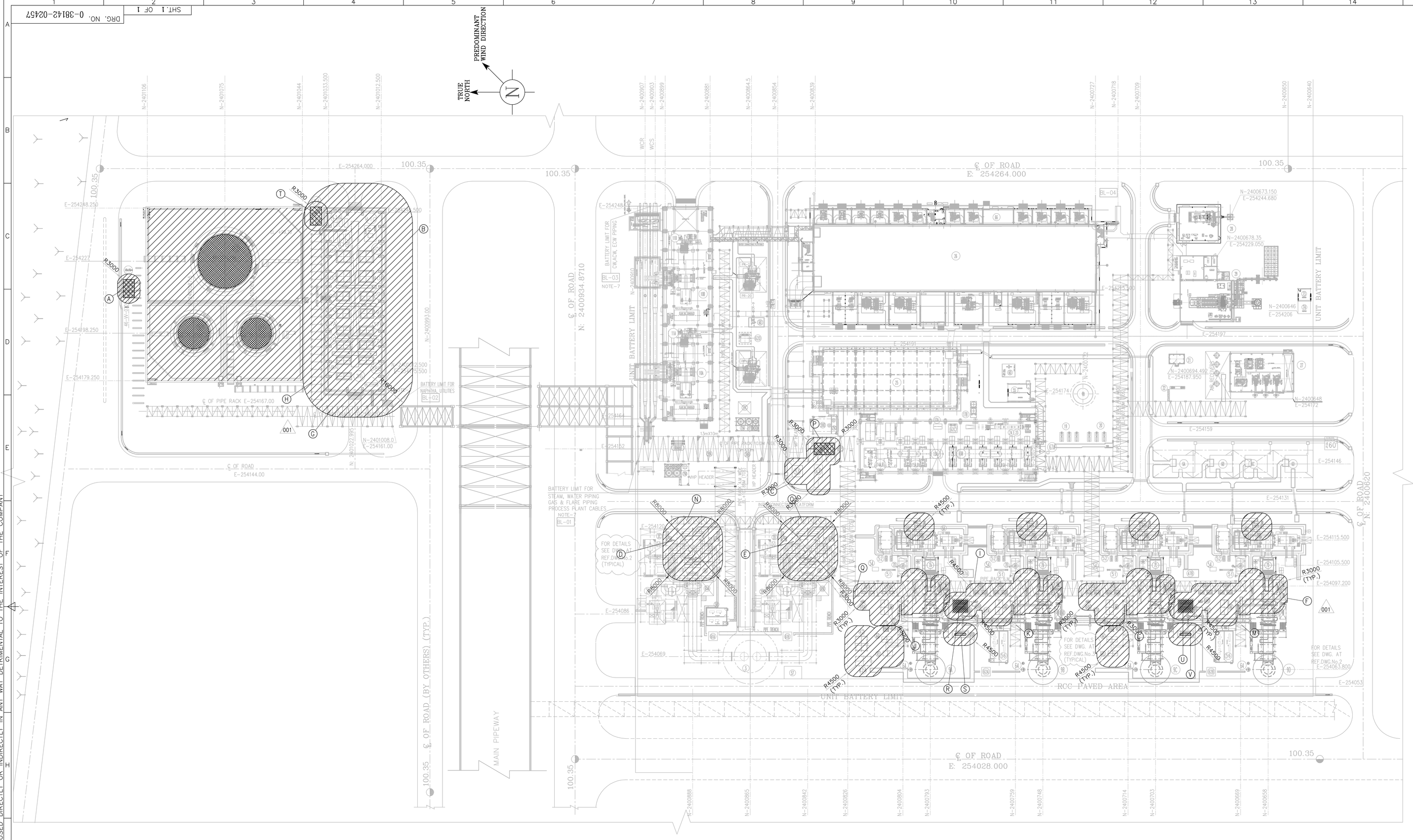
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 0-38142-02457 SHT. 1 OF 1



SI.NO.	BUILDING MARKED	BUILDING NAME	FIRE PROOF TO BE DONE
1.	A	UNLOADING TANK (INSIDE PIT) (30 M^3)	COLUMNS & BEAMS UPTO +102.70 M
2.	B	FUEL OIL PUMP HOUSE	COLUMNS & BEAMS UPTO +114.00 M
3.	C	NAPTHA/HSD/NATURAL GAS DRAIN TANK (INSIDE PIT) (30 M^3)	COLUMNS & BEAMS UPTO +102.70 M
4.	D	UTILITY BOILER– 1	ALL COLUMNS & BEAMS BETWEEN GRIDS S1R TO S1L, S2R TO S2L, S3R TO S3L AND FH7 TO FH1 FROM +108.00 M TO +122.00 M
5.	E	UTILITY BOILER– 2	ALL COLUMNS & BEAMS BETWEEN GRIDS FH1 TO FH2 FROM +99.70 M TO +108.00 M
001 6.	F	HRSG 1 TO 4	ALL COLUMNS & BEAMS BETWEEN GRIDS D1R TO D5R & D1L TO D5L UPTO +122.50 M
001 7.	G	PIPE RACK AREA–3	COLUMNS & BEAMS AT EAST SIDE ONLY AS SHOWN IN LAYOUT UPTO +110.70 M BETWEEN GRIDS PR–29 TO PR–32
8.	H	PIPE RACK AREA–1	COLUMNS & BEAMS UPTO +106.00 M
001 9.	I	PIPE RACK AREA–14 TO 17	ALL COLUMNS & BEAMS BETWEEN GRIDS D1 TO D4 UPTO +110.00 M AND ALL OTHER AREA EXCEPT EAST SIDE COLUMNS AT 11–14, 16–19, 21–24, 26–28 UPTO +108.00 M
001 10.	J	PIPE RACK AREA–10	COLUMNS & BEAMS UPTO +108.00 M EXCEPT 02A & 03A COLUMNS AT GRID 2
001 11.	K	PIPE RACK AREA–11	COLUMNS & BEAMS UPTO +108.00 M FROM GRID 04B TO 05B
001 12.	L	PIPE RACK AREA–12	COLUMNS & BEAMS UPTO +108.00 M EXCEPT 02C & 03C COLUMNS AT GRID 2
001 13.	M	PIPE RACK AREA–13	COLUMNS & BEAMS UPTO +108.00 M FROM GRID 04D TO 05D
14.	N	PIPE RACK AREA–7	COLUMNS & BEAMS FROM +108.00 M TO +109.00 M BETWEEN GRIDS UR–09 TO UR–12
15.	O	PIPE RACK AREA–7	COLUMNS & BEAMS FROM +108.00 M TO +113.00 M BETWEEN GRIDS UR–14 TO UR–17
001 16.	P	PIPE RACK AREA–6	WEST SIDE COLUMNS & BEAMS UPTO +108.00 M BETWEEN GRIDS PR–09 TO PR–11 AS SHOWN IN LAYOUT
001 17.	Q	PIPE RACK AREA–9	SOUTH SIDE COLUMNS & BEAMS UPTO +108.00 M BETWEEN GRIDS HR–29 TO HR–30 AS SHOWN IN LAYOUT
18.	R	NAPTHA HSD FALSE START DRAIN TANK FOR GT 1 & 2 (2 M^3)	COLUMNS & BEAMS UPTO +102.7 M
19.	S	NATURAL GAS DRAIN TANK FOR GT 1 & 2 (2 M^3)	COLUMNS & BEAMS UPTO +102.7 M
20.	T	NAPTHA DRAIN TANK (30 M^3)	COLUMNS & BEAMS UPTO +102.7 M
21.	U	NAPTHA HSD FALSE START DRAIN TANK FOR GT 3 & 4 (2 M^3)	COLUMNS & BEAMS UPTO +102.7 M
22.	V	NATURAL GAS DRAIN TANK FOR GT 3 & 4 (2 M^3)	COLUMNS & BEAMS UPTO +102.7 M

IMPORTANT NOTES:–

1. THE BEAMS WHICH ARE SUPPORTING TRANSFER LINES AND TWO PHASE FLOW LINE ABOVE 6" NEED TO BE FIRE PROOFED AS PER OISD–164 AND SHALL BE DONE FOR 2 HOUR FIRE RATING AS PER EIL SPECIFICATION.
2. FIRE PROOFING OF PIPE RACKS ARE WITH M25 GRADE CONCRETE AS PER EIL SPECIFICATION 6–68–033
3. FIRE PROOFING OF OTHER STRUCTURES WITH VERMICULITE CONTENTIOUS COATING AS PER EIL SPECIFICATION 6–68–033

EIL. HYDERABAD– 500032
PROJECT ENGINEERING & SYSTEMS DIVISION
RELEASED FOR CONSTRUCTION
DATE: 30.10.2013
SIGN:

REFERENCE DRAWING		
SL. NO.	DESCRIPTION	DRAWING NO.
01.	EIL SPECIFICATION FIRE PROOFING OF STEEL STRUCTURES	6–68–0033
02.	HAZARDOUS AREA CLASSIFICATION LAYOUT	0–381–01–01324
03.	HAZARDOUS AREA FUEL FIRING SYSTEM (UB)	2–00–052–50331
04.	HAZARDOUS AREA (HRSG)	2–00–052–50330

NOTES:–

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE STATED.
2. +99.700 LEVEL CORRESPONDS TO HIGHTEST PAVED POINT (R.L +7.5M) & +100.000 LEVEL CORRESPONDS TO FINISHED FLOOR LEVEL (R.L +7.8M).
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH TECHNICAL SPECIFICATION FOR CIVIL & ALL REFERENCE DRAWINGS.
4. FIRE PROOFING TO BE DONE AS PER EIL SPECIFICATION NO. 6–68–0033.

REV.	DATE	ALTERED	CHD/APPD
001	30.10.13	ALTERED SRK REVISED AS PER 0–381–01–01324–R03 & 2–00–052–50330–R03 AND REVISION MARKED AS 001	CHD/APPD SRK/GPP

BHEL'S CONSULTANT:
M/s. DASTUR & COMPANY (P) LTD. CONSULTING ENGINEERS: KOLKATA
DASTURCO PROJECT NO : 27278

	NAME	SIGN.	DATE
DRN.	AMG	AMG	01.03.2013
CHD.	W	W	01.03.2013
APPD.	W	W	01.03.2013

DRG. NO. 27278–32–08–CVL–0195 REV. 00B

OWNER: OPAL
DAHEJ PETROCHEMICAL COMPLEX
STEAM & POWER GENERATION SYSTEM
ONGC Petro–additions LIMITED,
SEZ, Dahej, Gujarat, India
PMC: Jacobs
Tender No.–MR/OW/MM/STG–NOM/19/2009
EIL JOB No. 6987 / EPCC–10 Pkg.
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

	NAME	SIGN.	DATE	NO.OF VAR.
DRN.	MND	MND	07.03.2013	
CHD.	Syamala Rao K		07.03.2013	N.A.
APPD.	Gopal Prasad Patel		07.03.2013	

DEPT. PED | CODE 450 | UNTOL. DIMS. CR 9/N/F | SCALE 1:600 | WEIGHT (KG) N.A. | REF. TO ASSY. DRG. N.A. | ITEM NO. N.A. | NO.OF ITEMS N.A.

TITLE: FIRE PROOFING FOR STEEL STRUCTURES

CARD CODE N.A. | DRAWING NO. 0–38142–02457 | REV. 001 | SHT. No 1 | NO. OF SHT. 1

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GENERAL DIMENSIONAL LIMITS,FITS & TOLERANCES AS PER HY0230261

INVENTORY NO | SIGN. AND DATE | REF. DRG. NO. | COMPUTER FILE NAME