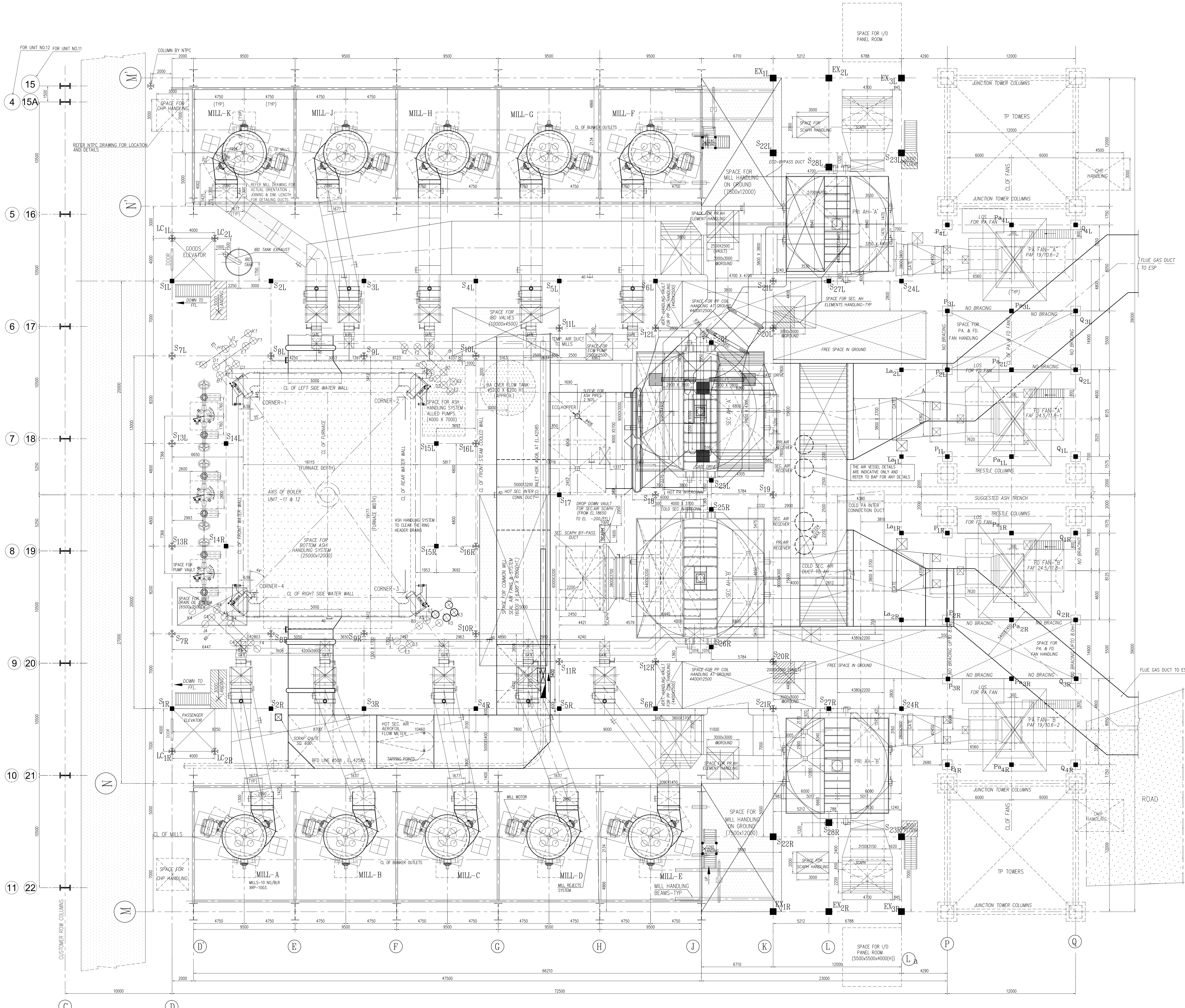
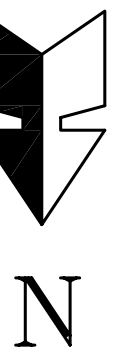
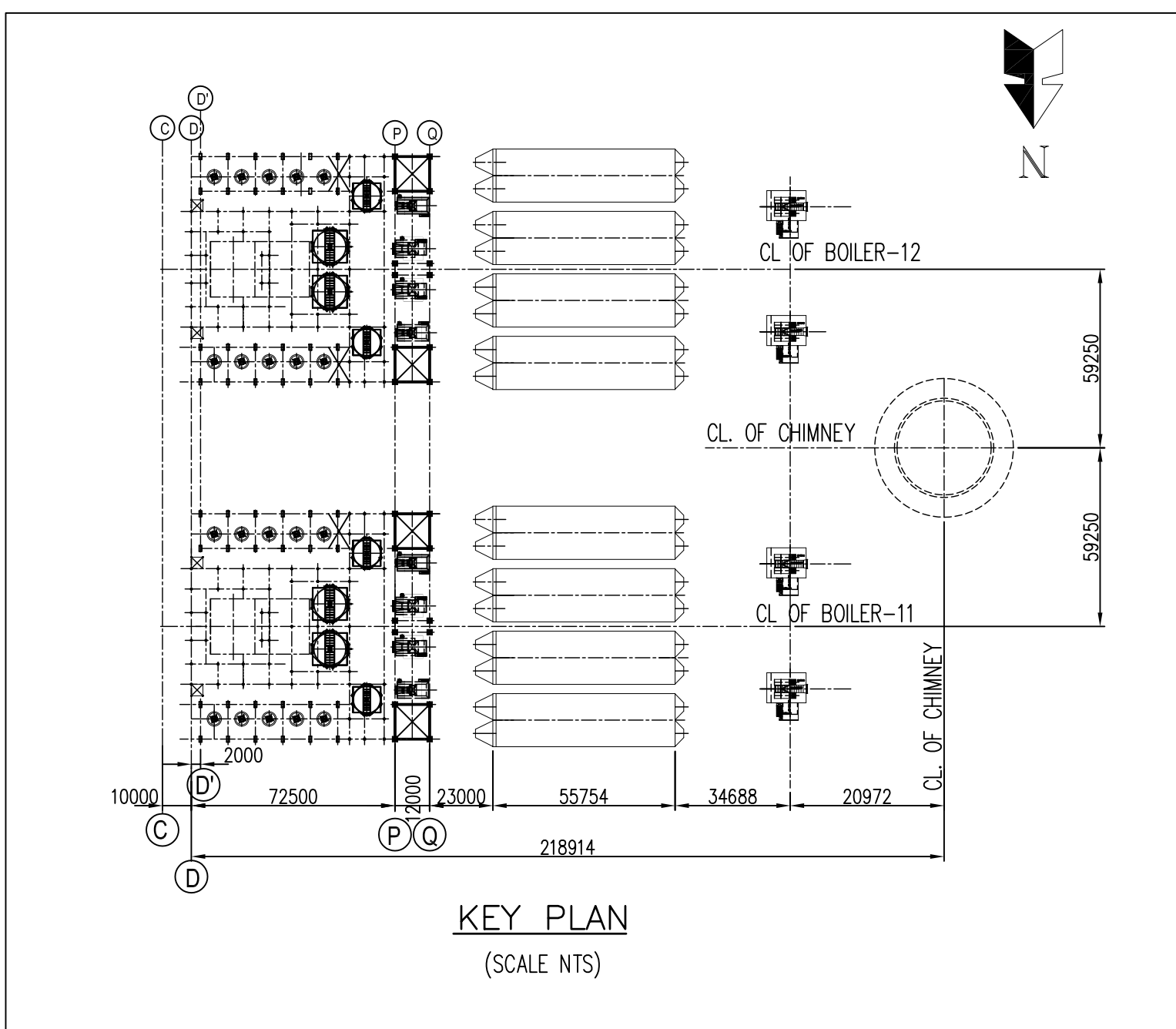
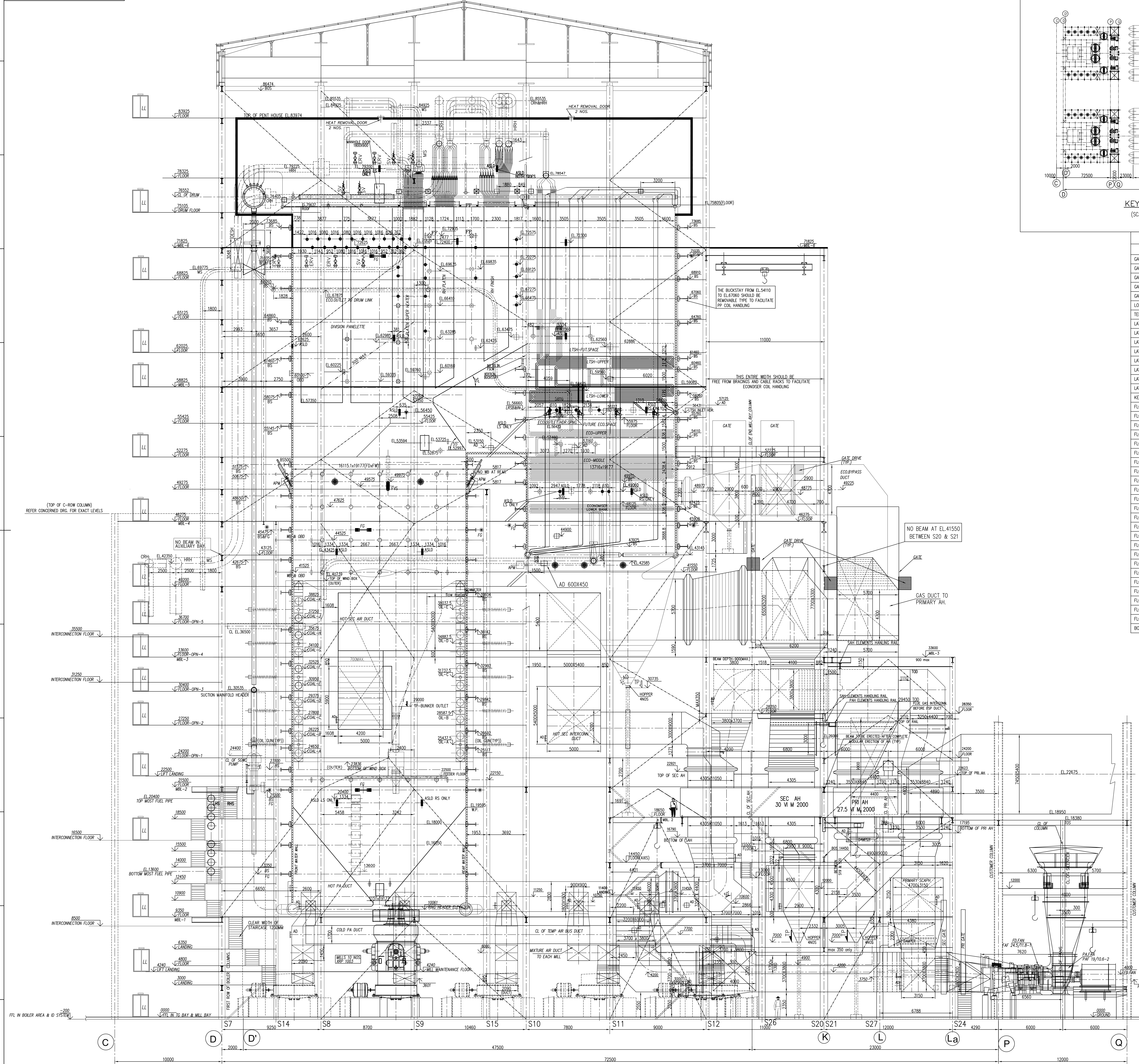




NOTES:-

1. THE CABLE RACK, PIPE RACKS AND ASH PIPES SHOULD NOT ENCR OACH IN TO THE HANDLING AREAS. THIS IS VALID FOR BOTH HORIZONTAL & VERTICAL HANDLING VAULTS. ERECTION AGENCY SHOULD INFORM THEIR SUB ERECTOR AND ALL OTHER ALLIANCE BODIES NOT TO ERECT ANY OTHER ELEMENTS IN HANDLING VAULTS OF PP COIL HANDLING, FD,PA,D FAN HANDLING, AH ELEMENTS HANDLING, MILL HANDLING AND ALL OTHER HANDLING SHOWN IN BOILER AREA. EVEN UNKNOWNLY ERECTED, THEN THOSE DEBRIS SHOULD BE REMOVED AT THEIR OWN COST AFTERWARDS.
2. THE FAN FOUNDATION & CONFIGURATIONS ARE ONLY INDICATIVE & FOR EXACT SHAPE & SIZE REFER FAN FOUNDATION DRAWINGS.
3. ALL FAN ACTUATORS AND FOUNDATION SIZES SHALL BE TAKEN FROM CONCERNED FAN DRAWINGS AND SIDE OF LOCATION SHALL BE AS SHOWN IN THIS DRAWING.
4. THE SPACE FOR ASH HANDLING SYSTEM HAVE BEEN SHOWN. THE ACTUAL SYSTEM SHOULD NOT EXCEED THE VALUES INDICATED.
5. FOR THE DETAILS BEYOND LAST ROW OF COLUMNS, THE INDUCED DRAFT SYSTEM DRAWING MAY BE REFERRED. THIS IS VALID FOR ALL UNITS & IN BETWEEN CHIMNEY & BOILER.
6. REFER THE GA OF BOILER SEC.SIDE ELEVATION DRG. NO. 0-00-022-75006 FOR BOILER PARAMETERS, LEGEND, NOTES, REFERENCE DRGS. & UNIT DESCRIPTION.

NTPC No. 2250-101-02-TR-PVM-B-001		CUSTOMER No. 0671,0672	
CUSTOMER NTPC LIMITED		PROJECT VINDHYACHAL STPP STAGE - IV (2 X 500MW)	
BOILER PLANT UNIT		STEAM GENERATOR WITH ELECTROSTATIC PRECIPITATOR PACKAGE	
BHARAT HEAVY ELECTRICALS LTD		NAME SIGN DATE	
BOILER PLANT UNIT		DRN SAKASH 15-04-09	
TIRUCHIRAPPALLI-620014		CHD SAKASH 15-04-09	
355-029		APFD KAPILABHINI 15-04-09	
TITLE		ALL DIMENSIONS IN MILLIMETRE	
GENERAL ARRANGEMENT OF BOILER			
SECTIONAL PLAN (SECTION - AA)			
DRAWING No. 01 OF 03	SCALE 1:125	DRAWING No. 01 OF 03	REV
SHEET		0-00-022-75007 00	



REFERENCE DRAWING NUMBERS	
DESCRIPTION	DRAWING NO
GA OF BOILER SEC SIDE ELEVATION	0-00-022-75006
GA OF BOILER SEC PLAN (SEC AA)	0-00-022-75007
GA OF BOILER FRONT ELEVATION	0-00-022-75008
GA OF BOILER PLAN (SEC BB&CC)	0-00-022-75009
GA OF BOILER PLAN (SEC DD)	0-00-022-75010
LOC. OF FURNACE OPENINGS & BUCKSTAYS	0-00-020-75036
TERMINAL POINT DETAILS OF MS, CRH, JHH & FW PIPING	0-00-020-75034
LAYOUT OF COLD AIR DUCTING - ELEVATION	0-00-020-75030
LAYOUT OF COLD AIR DUCTING - PLAN	0-00-020-75031
LAYOUT OF HOT AIR DUCTING - ELEVATION	0-00-020-75032
LAYOUT OF HOT AIR DUCTING - PLAN	0-00-020-75033
LAYOUT OF FLUE GAS DUCTING	0-00-020-75037
LAYOUT OF ID SYSTEM - ELEVATION	0-00-020-75027
LAYOUT OF ID SYSTEM - PLAN (UNIT-11)	0-00-020-75028
LAYOUT OF ID SYSTEM - PLAN (UNIT-12)	0-00-020-75029
KEY PLAN OF BOILERS	0-00-020-75026
FLOOR PLAN AT EL.4800	0-00-021-75011
FLOOR PLAN AT EL.9350 (MBL - 1)	0-00-021-75012
FLOOR PLAN AT EL.14450	0-00-021-75013
FLOOR PLAN AT EL.18650 (MBL - 2)	0-00-021-75014
FLOOR PLAN AT EL.21500 (MBL - 2)	0-00-021-75015
FLOOR PLAN AT EL.24200	0-00-021-75016
FLOOR PLAN AT EL.27250	0-00-021-75017
FLOOR PLAN AT EL.30400	0-00-021-75018
FLOOR PLAN AT EL.33600 (MBL-3)	0-00-021-75019
FLOOR PLAN AT EL.36700	0-00-021-75020
FLOOR PLAN AT EL.40125	0-00-021-75021
FLOOR PLAN AT EL.43125	0-00-021-75022
FLOOR PLAN AT EL.46275 (MBL - 4)	0-00-021-75023
FLOOR PLAN AT EL.49275	0-00-021-75024
FLOOR PLAN AT EL.52275	0-00-021-75025
FLOOR PLAN AT EL.55425	1-00-021-71255
FLOOR PLAN AT EL.58825 (MBL - 5)	1-00-021-71256
FLOOR PLAN AT EL.62025	1-00-021-71257
FLOOR PLAN AT EL.65125	1-00-021-71258
FLOOR PLAN AT EL.68825	1-00-021-71259
FLOOR PLAN AT EL.71825 (MBL - 6)	1-00-021-71260
FLOOR PLAN AT EL.75105	1-00-021-71261
FLOOR PLAN AT EL.78325	1-00-021-71262
FLOOR PLAN AT EL.83925	1-00-021-71263
BOILER EQUIPMENT DESIGNATION	3-00-020-70142

- NOTES**
- THE CABLE RECK, PIPE RACKS AND ASH PIPES SHOULD NOT ENROACH IN TO THE HANDLING AREAS. THIS IS VALID FOR BOTH HORIZONTAL & VERTICAL HANDLING VAULTS. SITE ERECTION AGENCY SHOULD INFORM THEIR SUB ERECTOR AND ALL OTHER ALLIANCE BODIES NOT TO ERECT ANY OTHER ELEMENTS IN HANDLING VAULTS OF PP COIL HANDLING, FD/PAID FAN HANDLING, AH ELEMENTS HANDLING, MILL HANDLING AND ALL OTHER HANDLING SHOWN IN BOILER AREA.
 - THE FAN FOUNDATION AND CONFIGURATIONS ARE ONLY INDICATIVE & FOR EXACT SHAPE & SIZE REFER FAN FOUNDATION DRAWINGS OF FANS/BAP.
 - ALL FAN ACTUATORS AND FOUNDATION SIZES SHALL BE TAKEN FROM CONCERNED FAN DRAWINGS AND SIDE OF LOCATION SHALL BE AS SHOWN IN THIS DRAWING.
 - FOR THE DETAILS BEYOND LAST ROW OF COLUMNS, LAYOUT OF SYSTEM DRAWING TO BE REFERRED. THIS IS VALID FOR ALL UNITS & IN BETWEEN CHIMNEY & BOILER.
 - ALL FURNACE OPENINGS ARE TO BE PROVIDED ON BOTH SIDES, OTHERWISE STATED.
 - ALL DUCT DIMENSIONS ARE INSIDE SIZES ONLY.
 - ALL INNER CORNERS OF DUCT TURNING ARE 300 RADII ONLY, UNLESS OTHERWISE SPECIFIED.
 - THE GA SECTIONS ARE NAMED AS 'AA', 'BB&CC' & 'DD'. SECTION 'AA' IS COMPOSITE WHICH SHOWS MILLS, AH FANS & ALLIED DUCTING ABOVE AH AND CRITICAL PIPING. SECTION 'DD' COVERS PIPING AND OTHER DETAILS ABOVE EL.42 M.

BOILER PARAMETERS:	
MAXIMUM CONTINUOUS RATING	1590.0 t/h
PRESSURE OF SUPER HEATED STEAM	178 kg./SQ.cm(g)
TEMPERATURE OF SUPERHEATED STEAM	540°C
STEAM FLOW AT REHEATER OUTLET	1358.0 t/h
ENTRY PRESSURE OF REHEATED STEAM	45.02 kg./SQ.cm(g)
ENTRY TEMPERATURE OF REHEATED STEAM	337.5°C
EXIT PRESSURE OF REHEATED STEAM	42.37 kg./SQ.cm(g)
EXIT TEMPERATURE OF REHEATED STEAM	568°C
FEED WATER INLET TEMPERATURE	254.5°C

DESCRIPTION OF UNIT

SUB-CRITICAL, CONTROLLED CIRCULATION, SINGLE DRUM, RADIANT, DRY BOTTOM, SINGLE REHEAT, PULVERIZED COAL FIRED OUT DOOR, UTILITY UNIT, BALANCED DRAUGHT, CUT CORNER, 51 mm O.D.TUBES AT 63.5 mm CENTERS, WRAP AROUND BUCKSTAY SYSTEM. TWO NOS OF EACH 500MW CAPACITY.

LEGEND		
ALL THE OPENINGS SHOWN ARE APPLICABLE FOR BOTH THE SIDES UNLESS IT IS SPECIFICALLY WRITTEN.		
	LRSB	LONG RETRACTABLE SOOT BLOWER
	FF	FUTURE LRSB WITH FLOOR IN ORIGINAL DESIGN
	WB	WALL BLOWER
	F	FUTURE WALL BLOWER
	TP	TEMPERATURE PROBE
	AD	ACCESS DOOR
	OBD	OBSERVATION DOOR
	TP	TERMINAL POINT UNDER SCOPE
	MBL	MAIN BRACE LEVEL
	WP	WORK POINT
	BS	BUCK STAY
	FG	FURNACE GUIDE AT AXIS OF BOILER
	FG	FURNACE GUIDE
	APM	ACOUSTIC PYRO METER OPENINGS
	WCAD	WATER COOLED ACCESS DOOR
	IN	INSTRUMENT INSERT
	FVS	FLAME VIEWING SYSTEM OPNG.
	ASLD	ACOUSTIC STEAM LEAK DETECTION SYSTEM OPNG.

JOB NO:	NTPC No. 2250-101-02-TR-PVM-B-002	CUSTOMER No. 0671&0672
STATUS:	CUSTOMER NTPC LIMITED	
DISTRIBUTION	PROJECT VINDYACHAL STPP, STAGE-IV (2x500MW)	
TO	STEAM GENERATOR WITH ELECTROSTATIC PRECIPITATOR PACKAGE	
NO. OF	BHARAT HEAVY ELECTRICALS LTD	
01	BOILER PLANT UNIT	
DATE	TIRUCHIRAPPALLI-620014	
ALT	ALL DIMENSIONS IN MILLIMETRE	
CHD	TITLE GENERAL ARRANGEMENT OF BOILER SECTIONAL SIDE ELEVATION	
APPO	DRAWING No. SCALE 1:125 DRAWING No. REV	
	SHEET OF 0-00-022-75006 00	