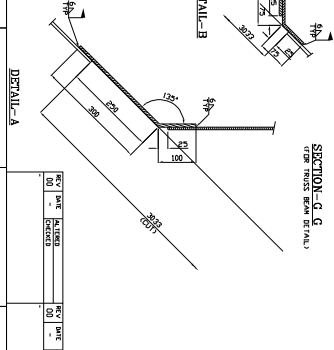
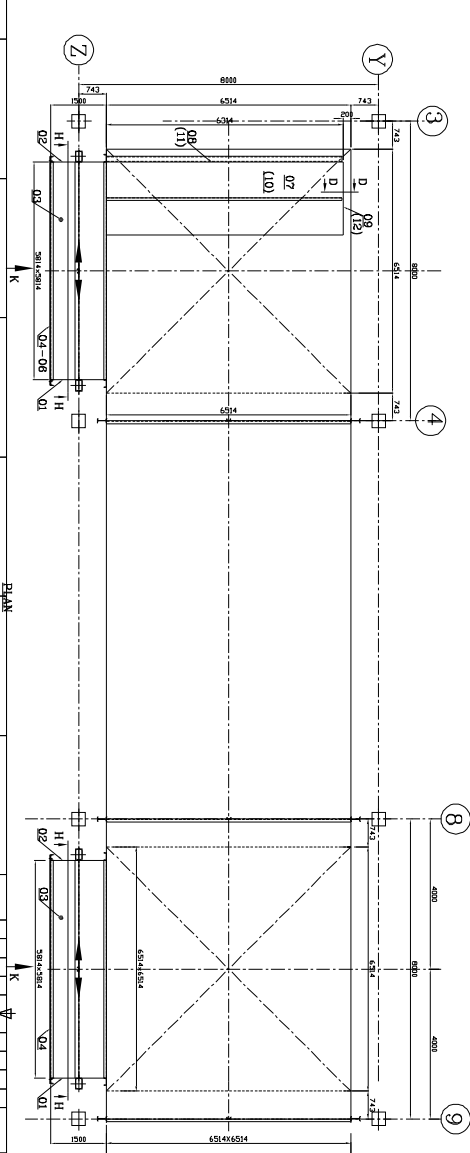
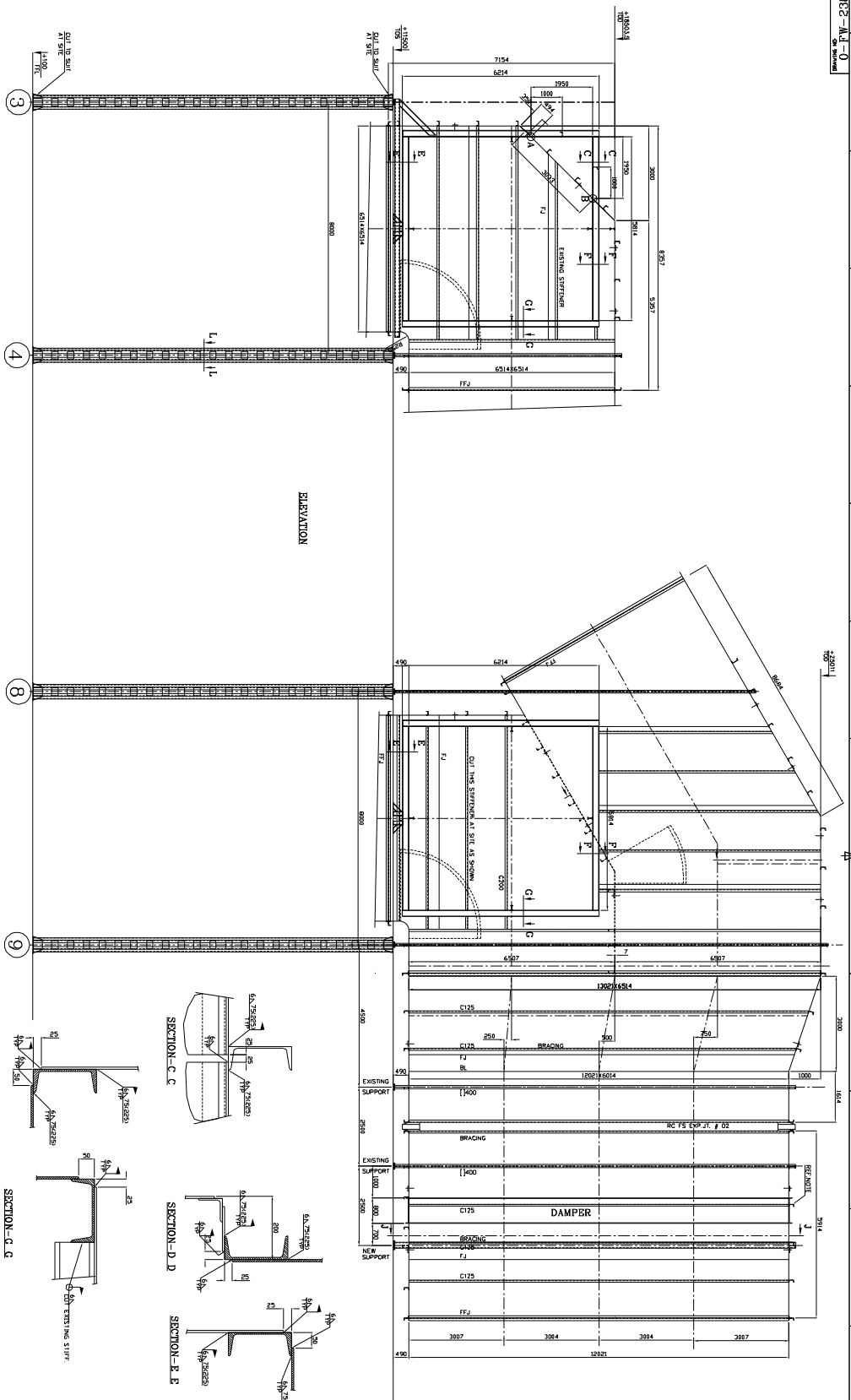


ELEVATION



- ERECTOR NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETERS.
 2. ALL DIMENSIONS ARE IN MILLIMETERS.
 3. ALL DIMENSIONS ARE IN MILLIMETERS.
 4. ALL DIMENSIONS ARE IN MILLIMETERS.
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 13. ALL DIMENSIONS ARE IN MILLIMETERS.
 14. ALL DIMENSIONS ARE IN MILLIMETERS.
 15. ALL DIMENSIONS ARE IN MILLIMETERS.
 16. ALL DIMENSIONS ARE IN MILLIMETERS.

NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	DUCT WALL	1	MT	DUCT WALL
2	DUCT WALL	1	MT	DUCT WALL
3	DUCT WALL	1	MT	DUCT WALL
4	DUCT WALL	1	MT	DUCT WALL
5	DUCT WALL	1	MT	DUCT WALL
6	DUCT WALL	1	MT	DUCT WALL
7	DUCT WALL	1	MT	DUCT WALL
8	DUCT WALL	1	MT	DUCT WALL
9	DUCT WALL	1	MT	DUCT WALL
10	DUCT WALL	1	MT	DUCT WALL
11	DUCT WALL	1	MT	DUCT WALL
12	DUCT WALL	1	MT	DUCT WALL
13	DUCT WALL	1	MT	DUCT WALL
14	DUCT WALL	1	MT	DUCT WALL
15	DUCT WALL	1	MT	DUCT WALL
16	DUCT WALL	1	MT	DUCT WALL
17	DUCT WALL	1	MT	DUCT WALL
18	DUCT WALL	1	MT	DUCT WALL
19	DUCT WALL	1	MT	DUCT WALL
20	DUCT WALL	1	MT	DUCT WALL
21	DUCT WALL	1	MT	DUCT WALL
22	DUCT WALL	1	MT	DUCT WALL
23	DUCT WALL	1	MT	DUCT WALL
24	DUCT WALL	1	MT	DUCT WALL
25	DUCT WALL	1	MT	DUCT WALL
26	DUCT WALL	1	MT	DUCT WALL
27	DUCT WALL	1	MT	DUCT WALL
28	DUCT WALL	1	MT	DUCT WALL
29	DUCT WALL	1	MT	DUCT WALL
30	DUCT WALL	1	MT	DUCT WALL
31	DUCT WALL	1	MT	DUCT WALL
32	DUCT WALL	1	MT	DUCT WALL
33	DUCT WALL	1	MT	DUCT WALL
34	DUCT WALL	1	MT	DUCT WALL
35	DUCT WALL	1	MT	DUCT WALL
36	DUCT WALL	1	MT	DUCT WALL
37	DUCT WALL	1	MT	DUCT WALL
38	DUCT WALL	1	MT	DUCT WALL
39	DUCT WALL	1	MT	DUCT WALL
40	DUCT WALL	1	MT	DUCT WALL

NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	DUCT WALL	1	MT	DUCT WALL
2	DUCT WALL	1	MT	DUCT WALL
3	DUCT WALL	1	MT	DUCT WALL
4	DUCT WALL	1	MT	DUCT WALL
5	DUCT WALL	1	MT	DUCT WALL
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7	DUCT WALL	1	MT	DUCT WALL
8	DUCT WALL	1	MT	DUCT WALL
9	DUCT WALL	1	MT	DUCT WALL
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13	DUCT WALL	1	MT	DUCT WALL
14	DUCT WALL	1	MT	DUCT WALL
15	DUCT WALL	1	MT	DUCT WALL
16	DUCT WALL	1	MT	DUCT WALL
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36	DUCT WALL	1	MT	DUCT WALL
37	DUCT WALL	1	MT	DUCT WALL
38	DUCT WALL	1	MT	DUCT WALL
39	DUCT WALL	1	MT	DUCT WALL
40	DUCT WALL	1	MT	DUCT WALL

A. SPOOL DUCT

NTPC-MAUDA 2X500 "FGD"

CUST NO: G503, G504

PGMA: FW238

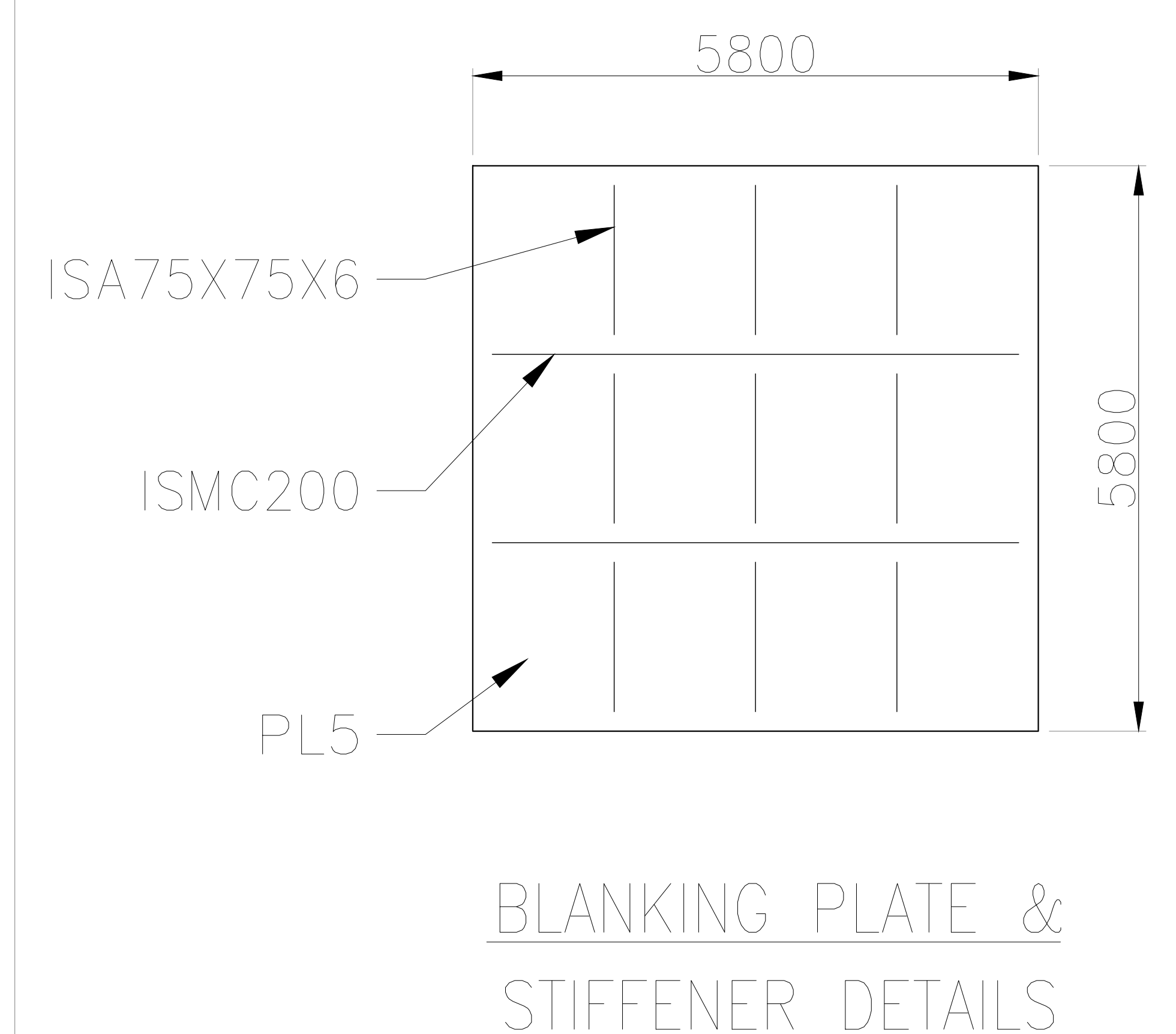
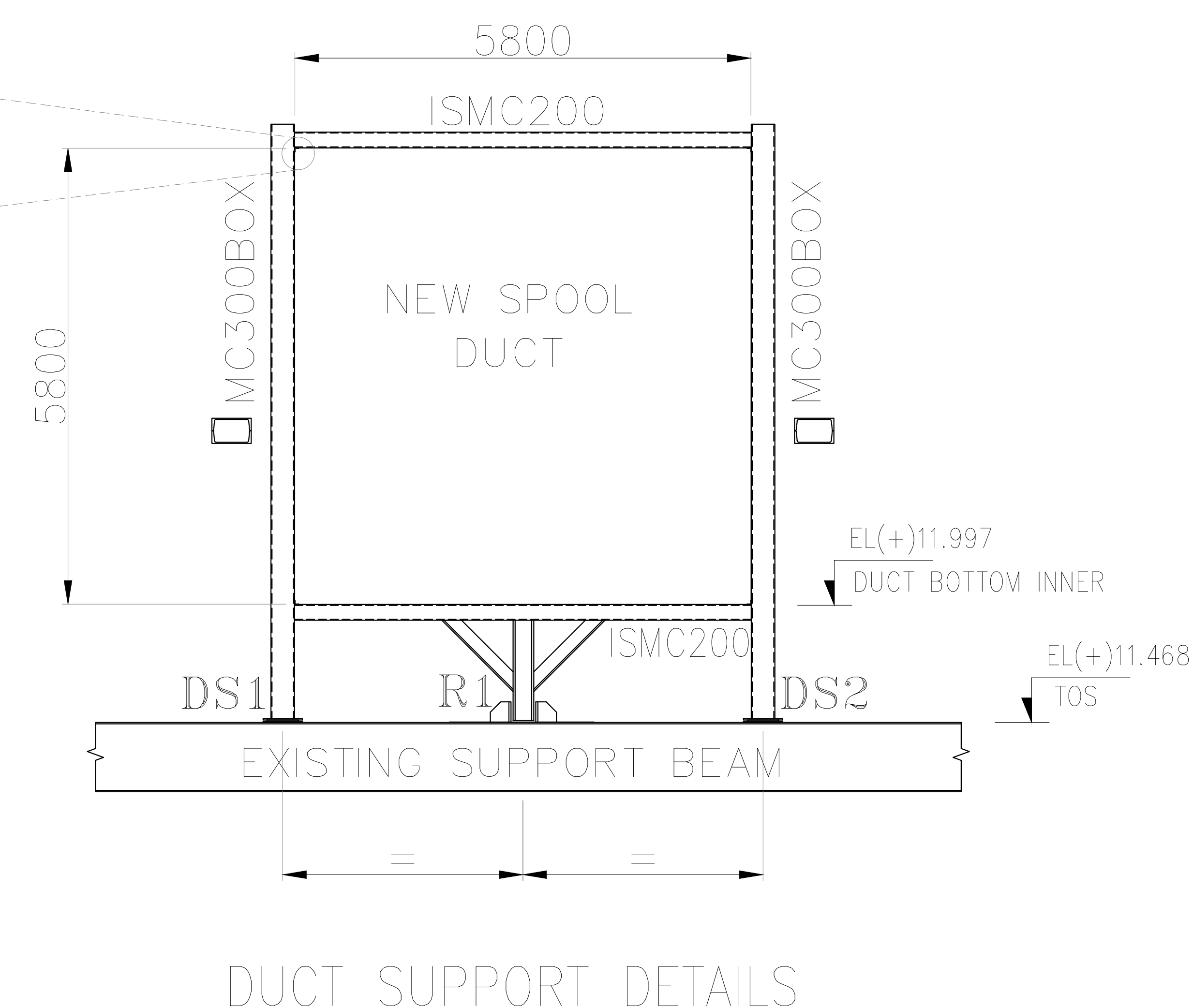
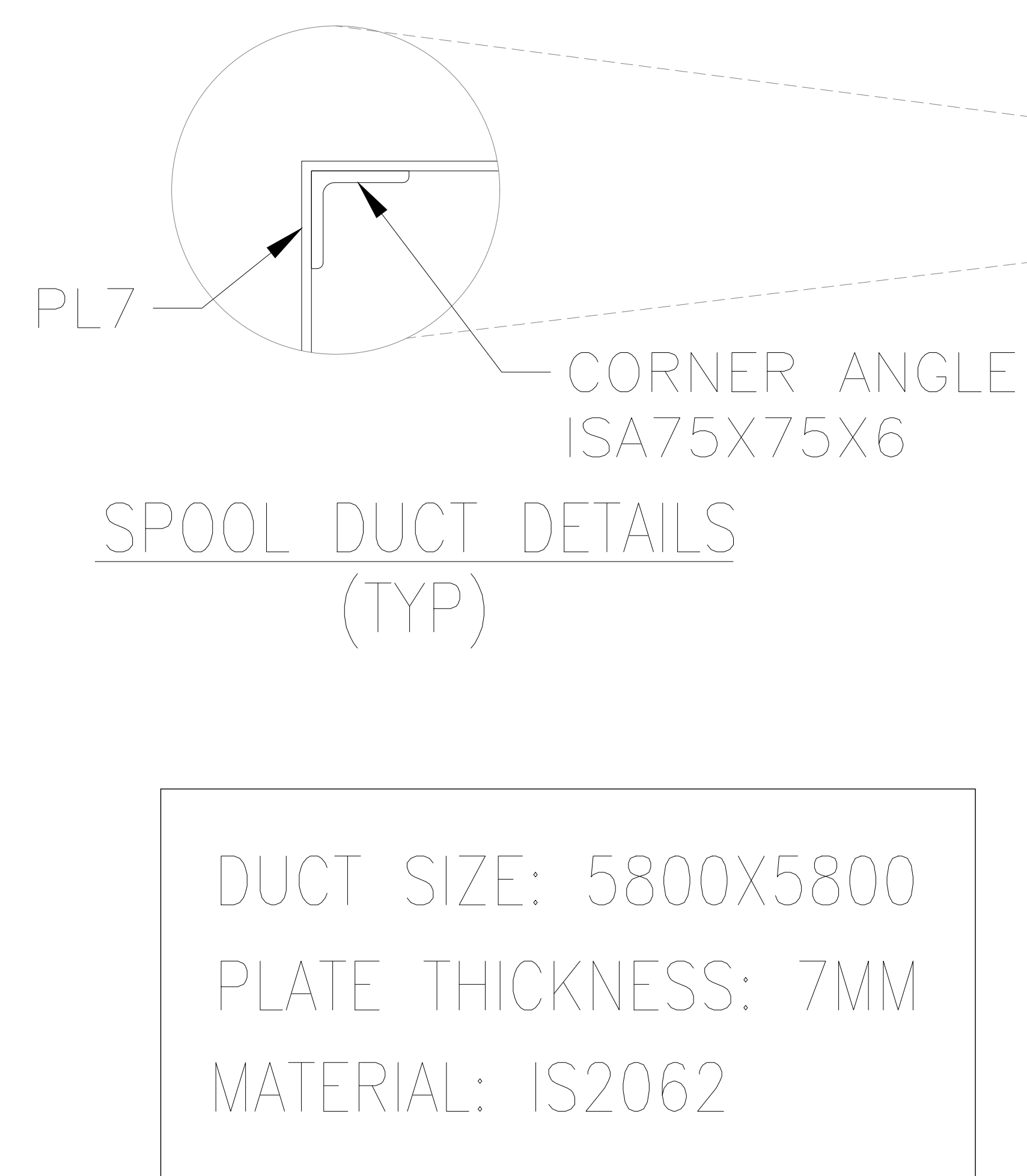
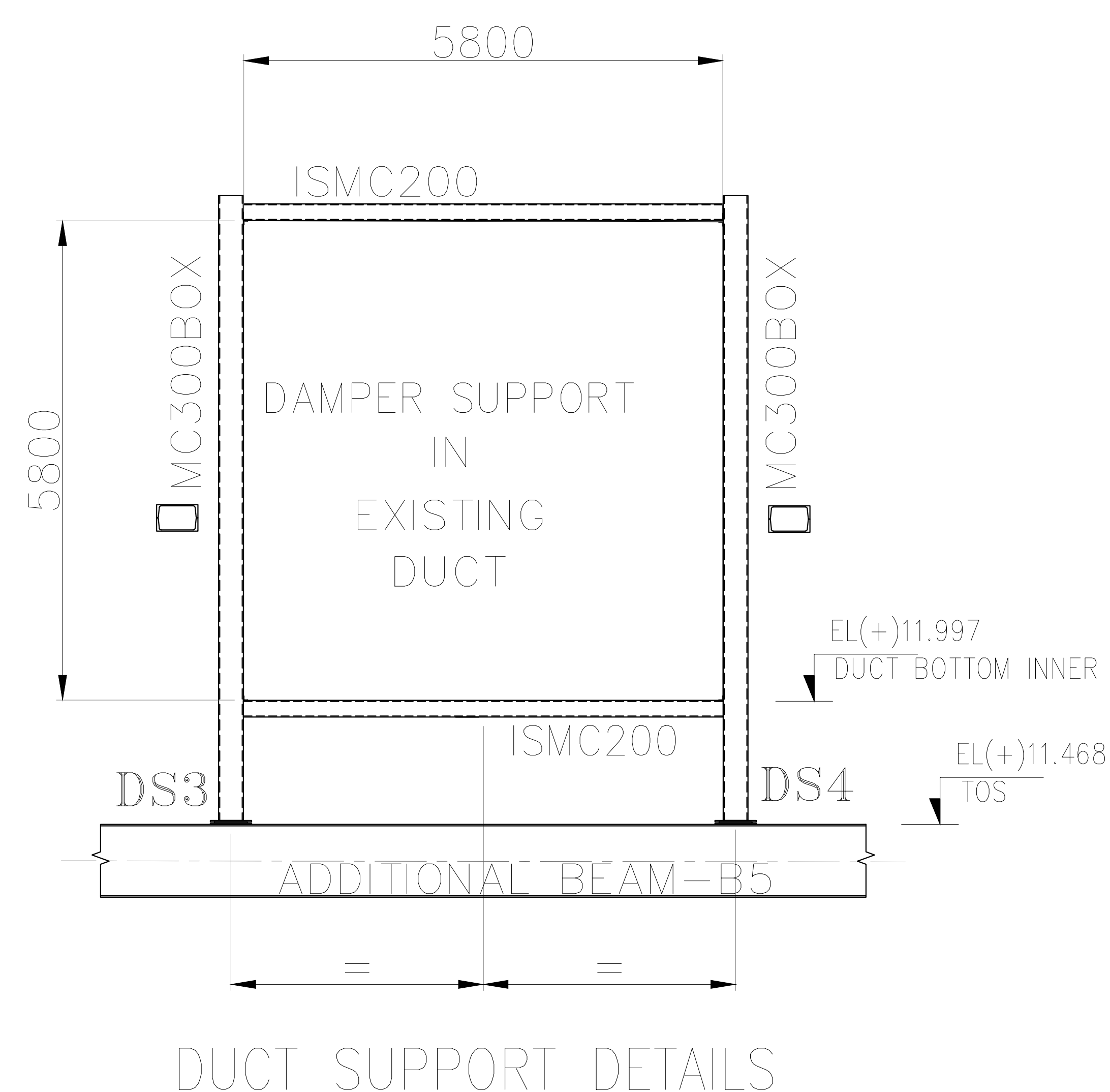
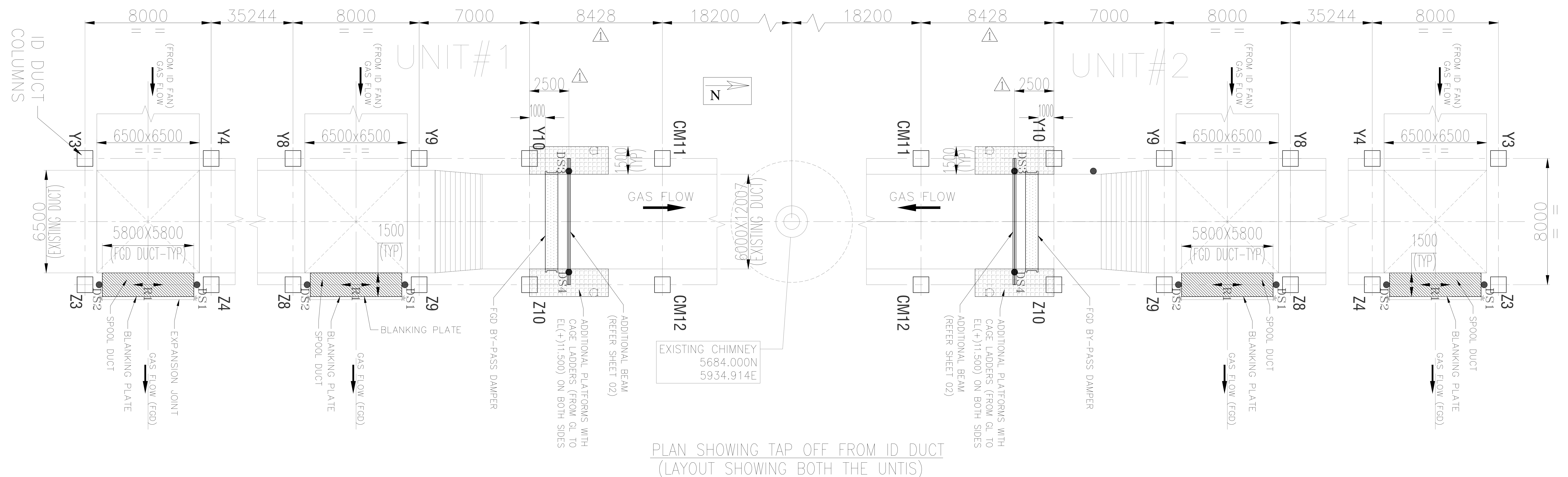
(TRANSMITTAL FOR SPOOL DUCT & STRENGTHENING OF STRUCTURE)

REV-01

(DAMPER&BEAM LOCATIONS MODIFIED BASED ON ID DUCT EJ)

SHEET 01 OF 03

DATE 09.08.2019



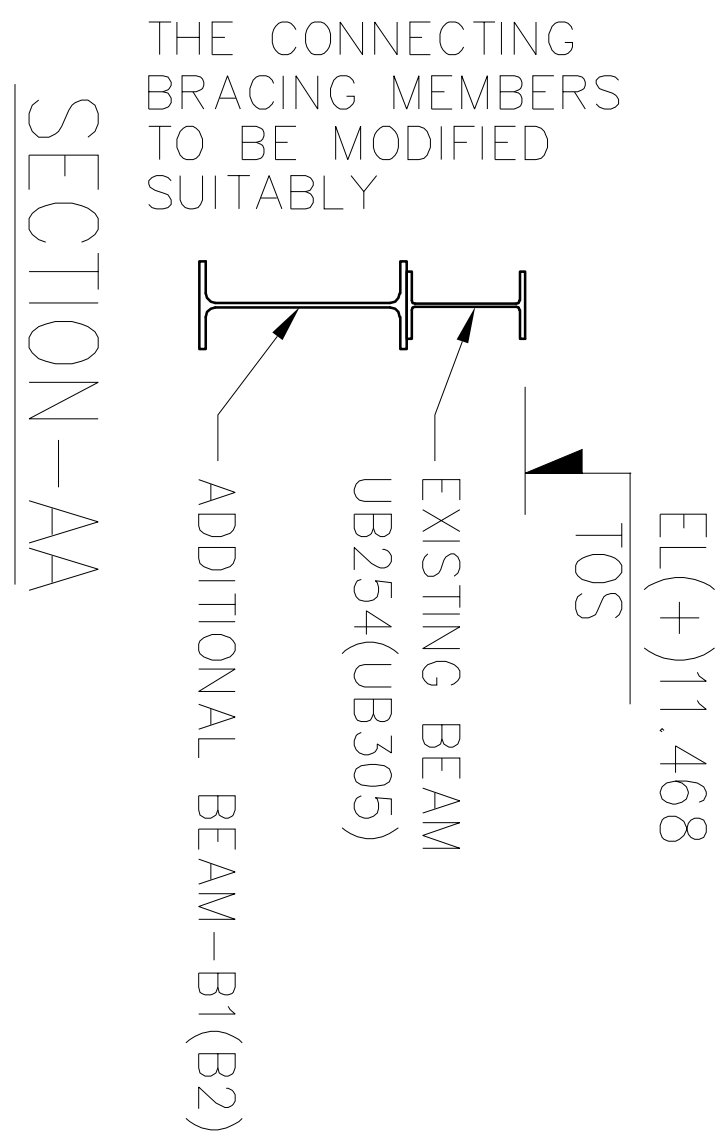
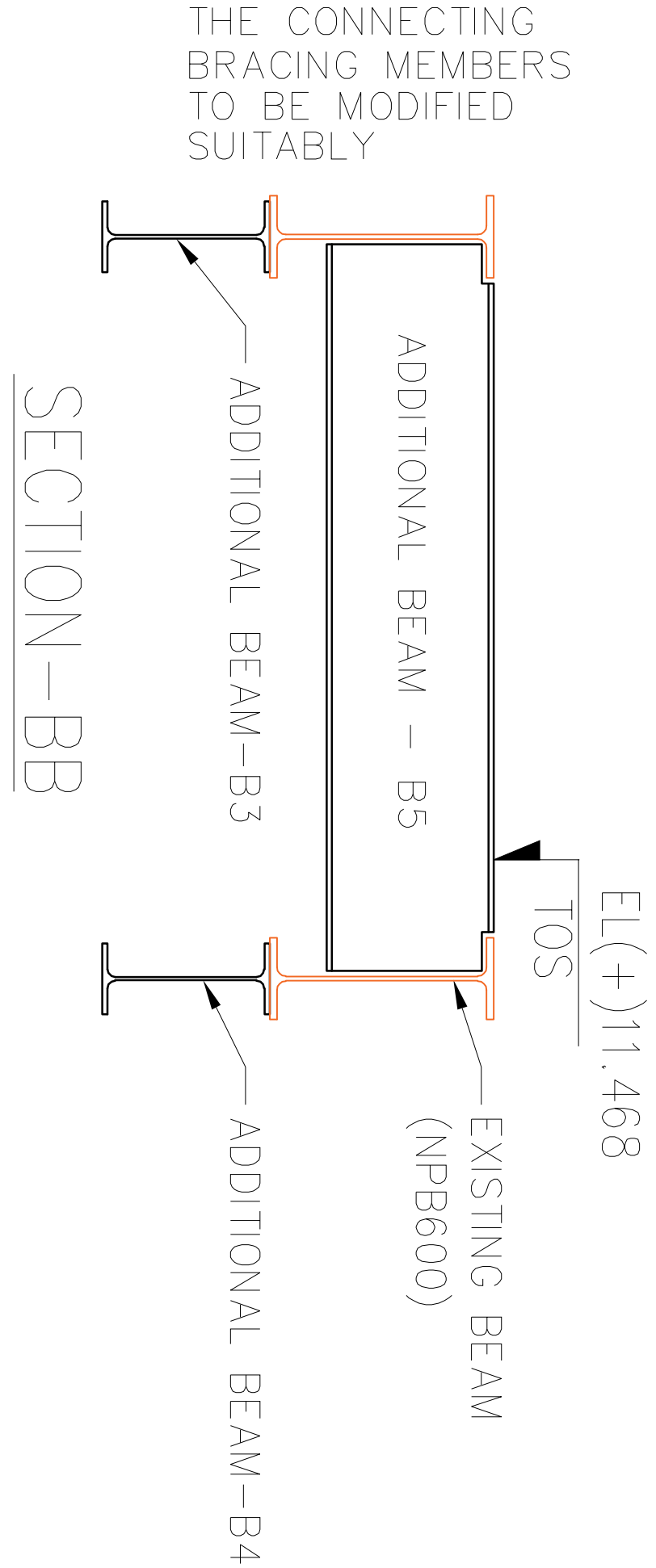
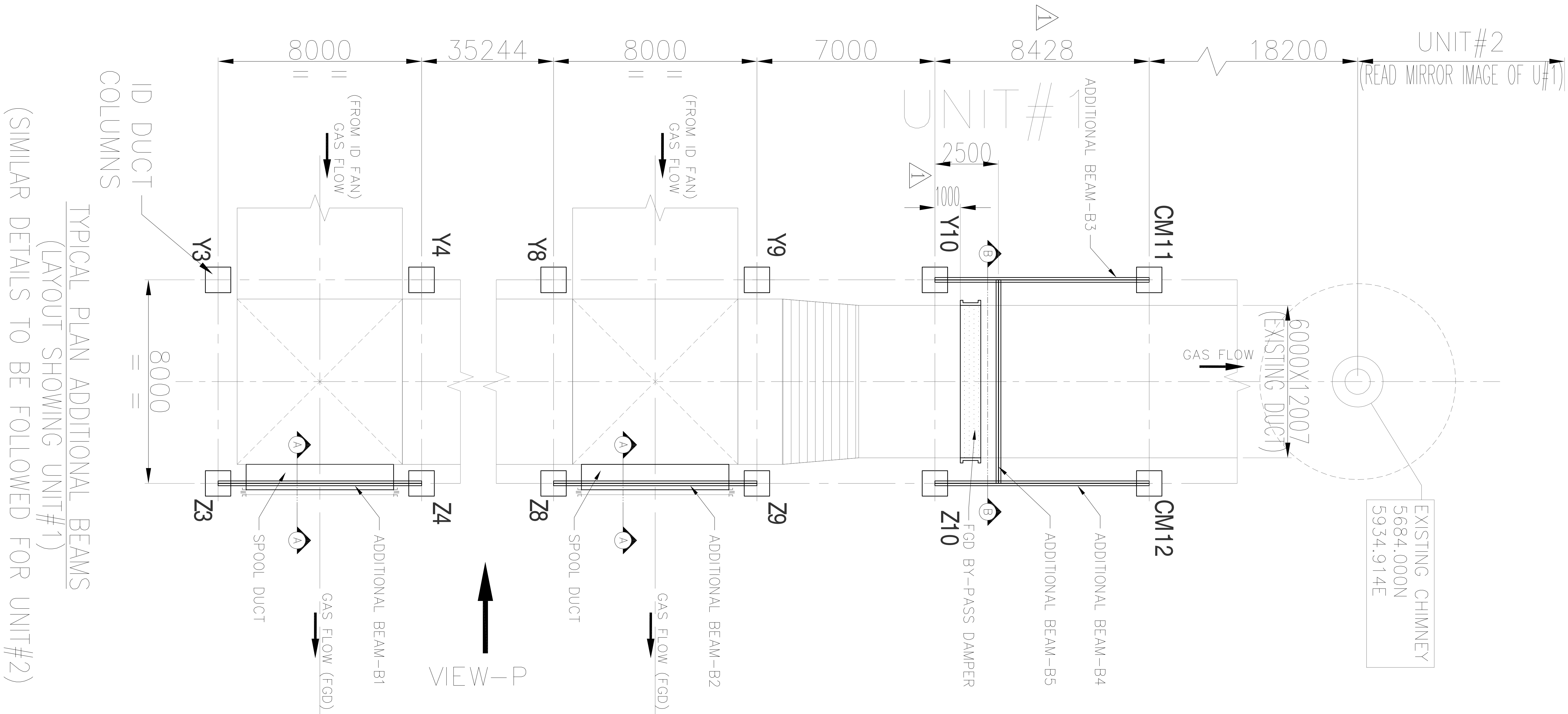


TABLE - A (ADDITIONAL BEAMS - FOR STRENGTHENING)				
BEAM NO	APPROXIMATE LEVEL OF BEAM	REMARKS	MEMBER SIZE	APPROXIMATE LENGTH OF BEAM
B1	EL(+)'11.468	BELOW SPOOL DUCT UNDER BEAM (Z3 TO Z4 FOR EACH UNITS)	NPB450	8000
B2	EL(+)'11.468	BELOW SPOOL DUCT UNDER BEAM (Z8 TO Z9 FOR EACH UNITS)	NPB450	8000
B3	EL(+)'11.468	BELOW EXISTING BEAM (Y10 TO CM11 FOR EACH UNITS)	NPB400	8428
B4	EL(+)'11.468	BELOW EXISTING BEAM (Z10 TO CM12 FOR EACH UNITS)	NPB400	8428
B5	EL(+)'11.468	SECONDARY BEAM CONNECTING EXISTING BEAMS (BEAM TO BEAM FOR EACH UNITS)	NPB450	8000



TYPICAL DETAIL OF COLUMN STRENGTHENING (TYPICAL FOR GROUP-I COLUMNS)

TYPICAL DETAIL OF COLUMN STRENGTHENING (TYPICAL FOR GROUP-II COLUMNS)

TABLE-B (ADDITIONAL MATERIAL FOR COLUMN STRENGTHENING)

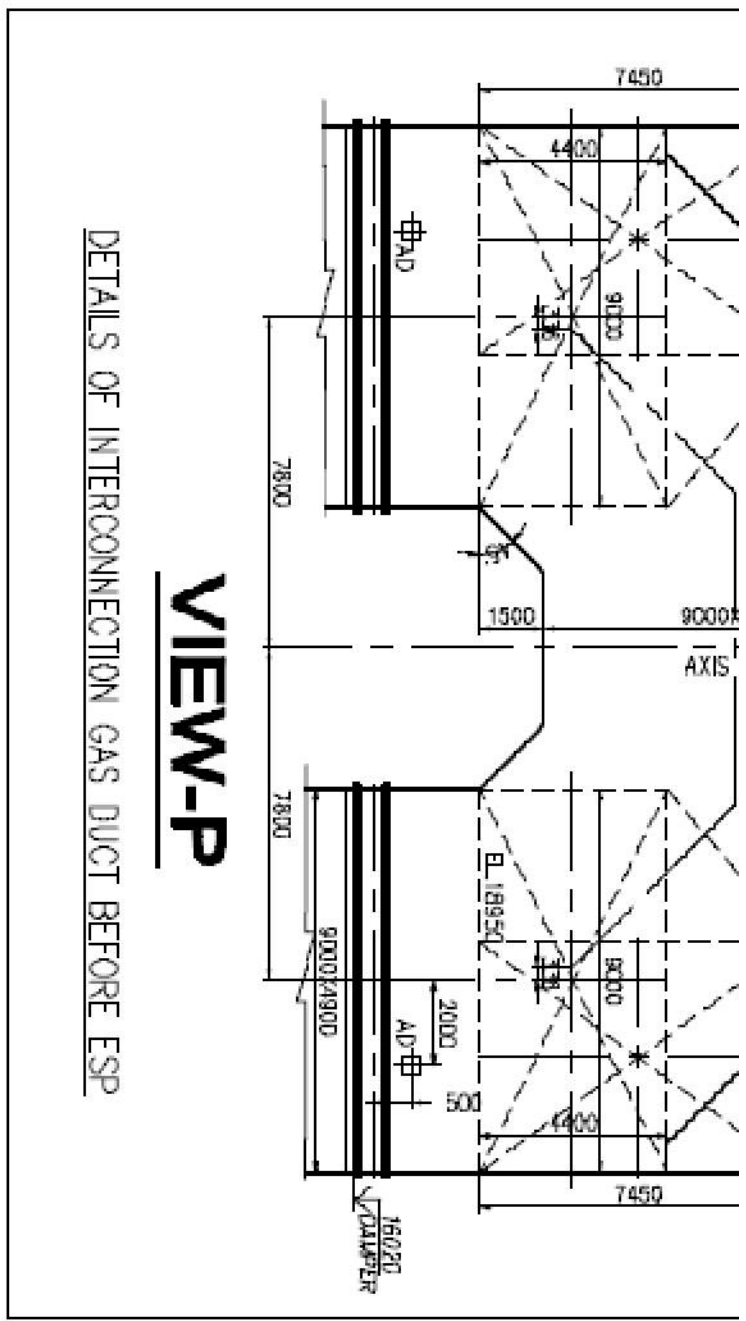
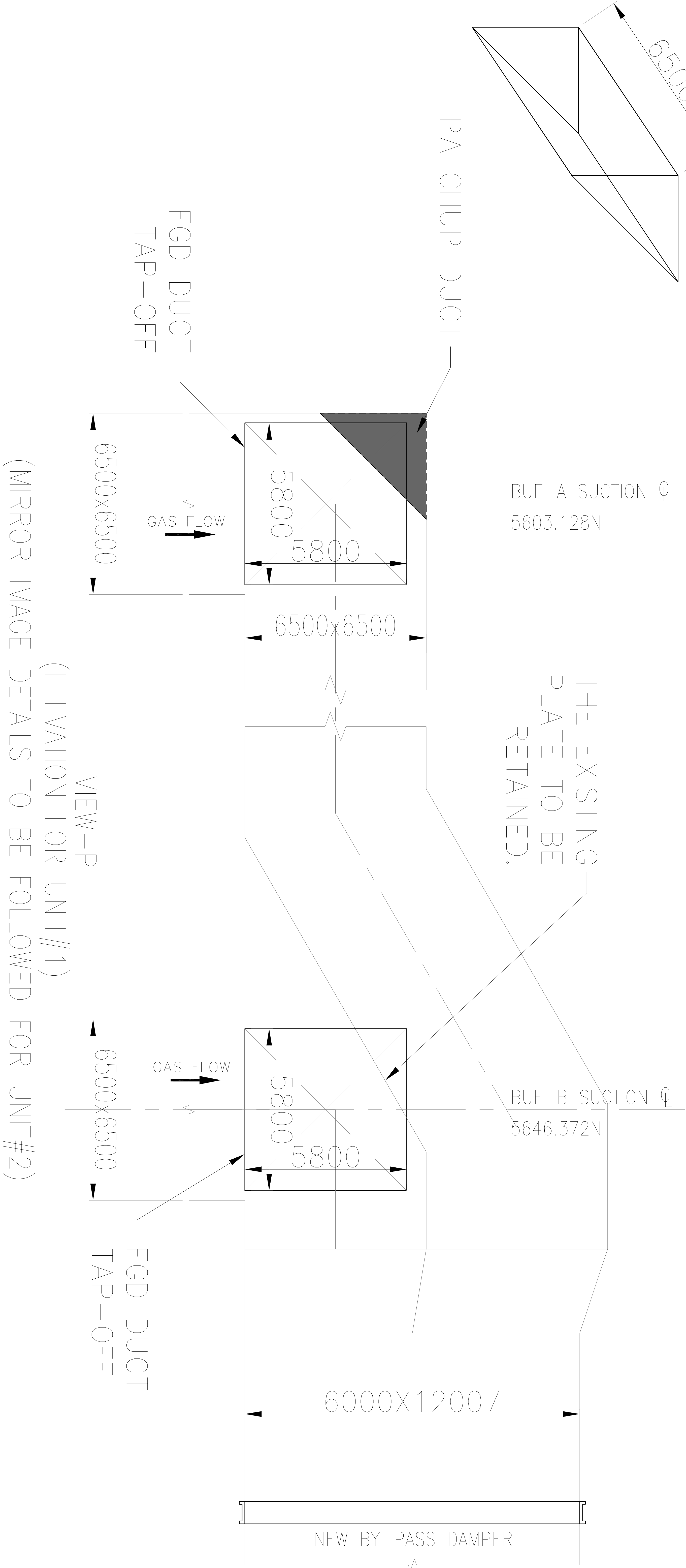
GROUP	COLUMNS TO BE STRENGTHENED (FOR EACH UNITS)	APPROXIMATE LENGTH OF COLUMN	REMARKS	MEMBER SIZE
I	Y10, Z10	12200 [EL(-)'0.650 TO EL(+)'11.500]	TO BE WELDED ON TO THE COLUMNS	4 NOS ISMC150
II	Z3, Z4, Z8, Z9, CM11, CM12	12200 [EL(-)'0.650 TO EL(+)'11.500]	TO BE WELDED ON TO THE COLUMNS	2 NOS ISMC150

D. PATCHUP DUCT DETAILS

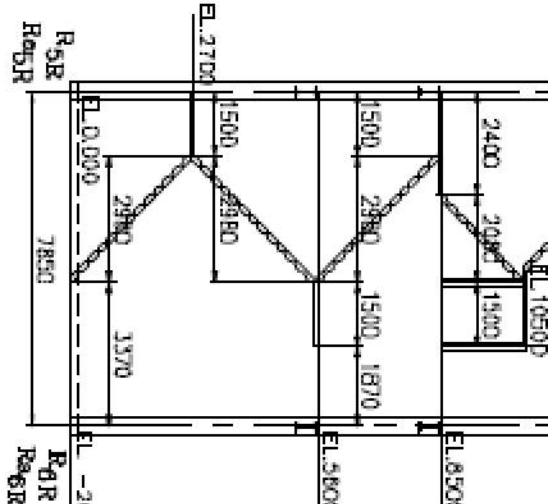
NTPC-MAUDA 2X500 "FGD"
CUST NO: G503, G504
PGMA: FW238

REV-01
(NO CHANGES IN THIS DRG)

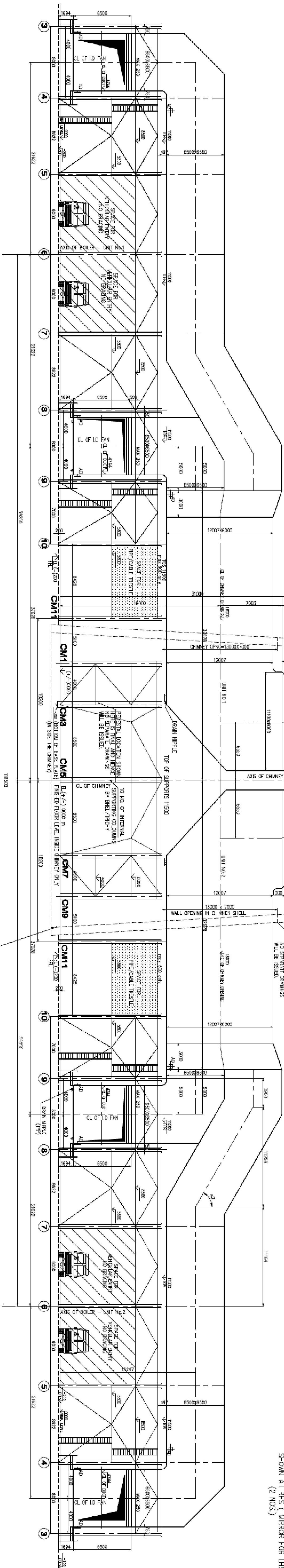
SHEET 03 OF 03
DATE 09.08.2019



VIEW-P
(ELEVATION FOR UNIT#1)
(MIRROR IMAGE DETAILS TO BE FOLLOWED FOR UNIT#2)



VIEW-Q
(2 VIEWS)



LIST OF INDUCED DRAFT SYSTEM DRAWINGS	
DESCRIPTION	NO. OF SHEETS
ELEVATION	01-01-001-74552
PLAN (UNIT-1)	01-01-002-74553
PLAN (UNIT-2)	01-01-003-74554

S:



(VIEW-X)



ARRANGEMENT OF STAIR CASE
SHOWN AT RHS (MIRROR FOR LHS.
(2 NOS.)

REFERENCE DRG.:-

1. REFER DRG. NO. 0-00-022-74540 FOR BOILER PARAMETERS, LEGEND, NOTES, REFERENCE DRGS. & UNIT DESCRIPTION.
2. THIS DRAWING SHOULD BE READALONG WITH ID SYSTEM PLAN DRGS 0-00-020-74552, 74553, 74554.

NOTES:

1. AD- ACCESS DOOR
2. ALL THE DUCT SIZES ARE TO INSIDE ONLY UNLESS SPECIFIED.
3. ALL INNER CORNERS OF DUCT TURNING ARE 300 RADIUS ONLY.
4. THE ACCESS DOORS ARE LOCATED 500 FROM FLOOR OR FROM EDGE OF DAMPER, DUCT AS SHOWN, SUITABLY ERECTED ACCORDING TO FLOOR PLAN.
5. THE SPACE PROVIDED FOR HORIZONTAL MOVEMENTS & VERTICAL MOVEMENTS OF AH ELEMENTS HANDLING ZONES SHOULD BE CLEAR ALL THE TIMES, HENCE NO PERMANENT OR TEMPORARY FEATURES SHOULD BLOCK SUCH AREA. IF ANY BLOCKAGES ARE FOUND AT THESE ZONE WILL HAVE TO BE REMOVED AT THEIR COST. THIS NOTE IS VALID FOR ALL THE AIRHEATERS IN ALL UNITS.
6. REFER ESP DRAWING FOR ESP DETAILS
7. ALL ELEVATIONS ARE WITH RESPECT TO EL.0.00m WHICH CORRESPONDS TO RL. ± 21.5 M.

CAUTION: THE DRAWING IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD., AND IS NOT TO BE REPRODUCED OR USED TO FURNISH ANY INFORMATION FOR MAKING OF DRAWINGS OR APPARATUS

WPC No.		9561-101-01-TR-PVM-F-004		CUSTOMER No.		0661, 0662											
CUSTOMER PROJECT		NTPC LIMITED															
PROJECT		MAUDA SUPER THERMAL POWER PROJECT (2x500MW) STEAM GENERATOR WITH ELECTROSTATIC PRECIPITATOR PACKAGE															
		BHARAT HEAVY ELECTRICALS LTD BOILER PLANT UNIT TIRUCHIRAPPALLI - 620014		NAME		SIGN		DATE									
				DRN S R SIVASANKAR		P. Narasimhan		30-09-2009									
				CPD VUMKESWARAN		V. Vengal Rao		30-09-2009									
				APPD KAMURJAN		P. V. Manojan		30-09-2009									
				ALL DIMENSIONS IN MILLIMETER													
355-029																	
TITLE																	
LAYOUT OF I D SYSTEM ELEVATION																	
DRAWING No.			SCALE			1:200			DRAWING No.		REV						
SHEET			OF			PROJECTION						0-00-020-74552			02		