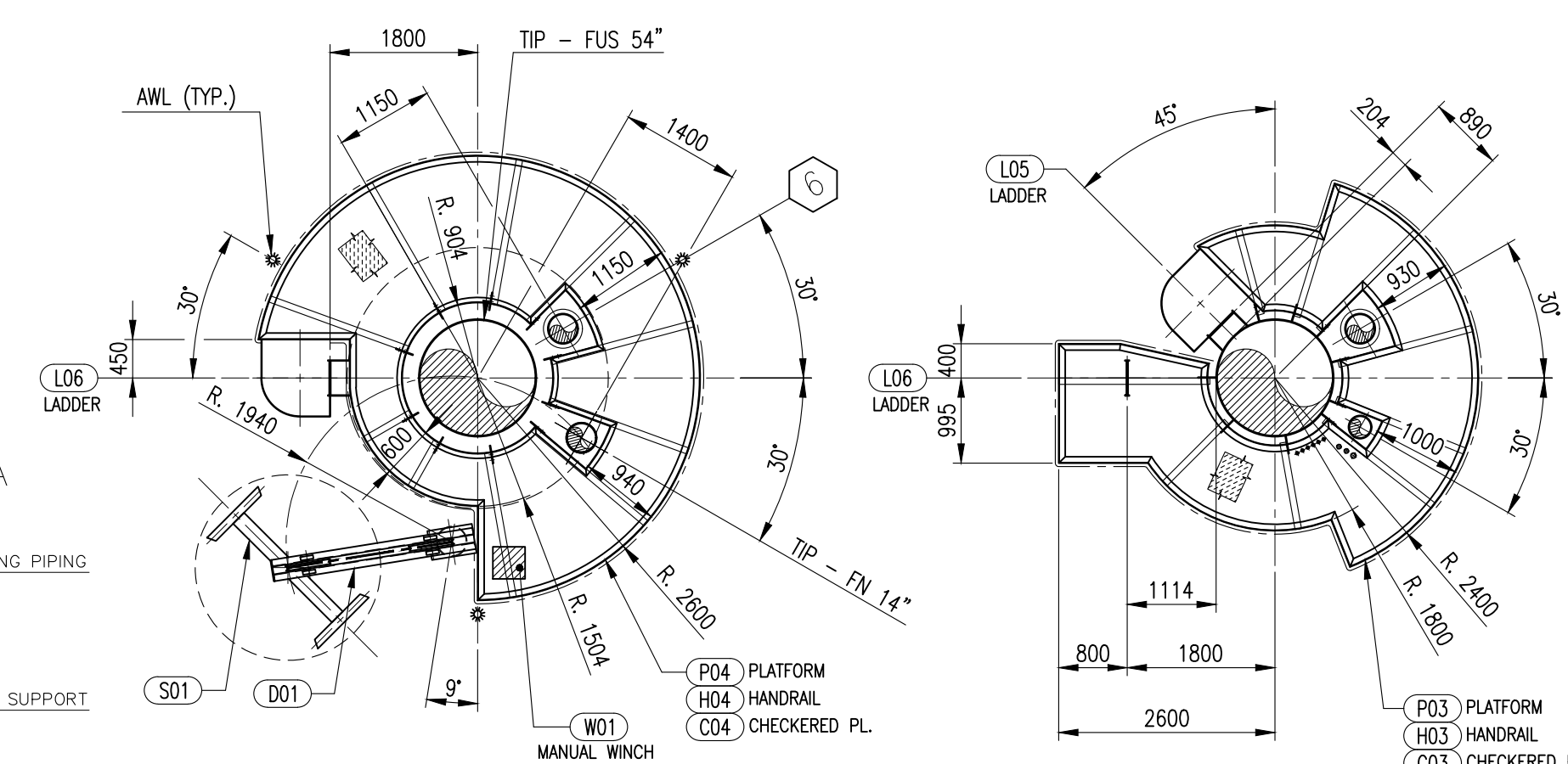
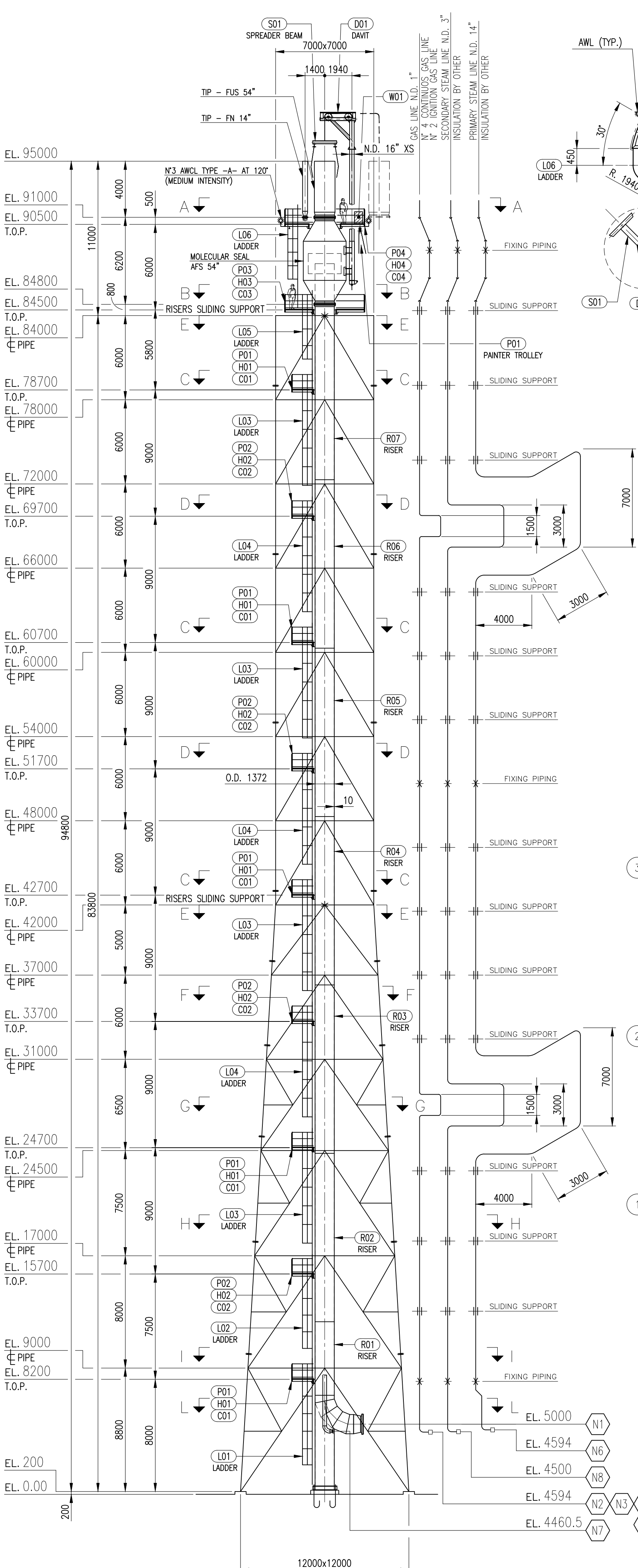
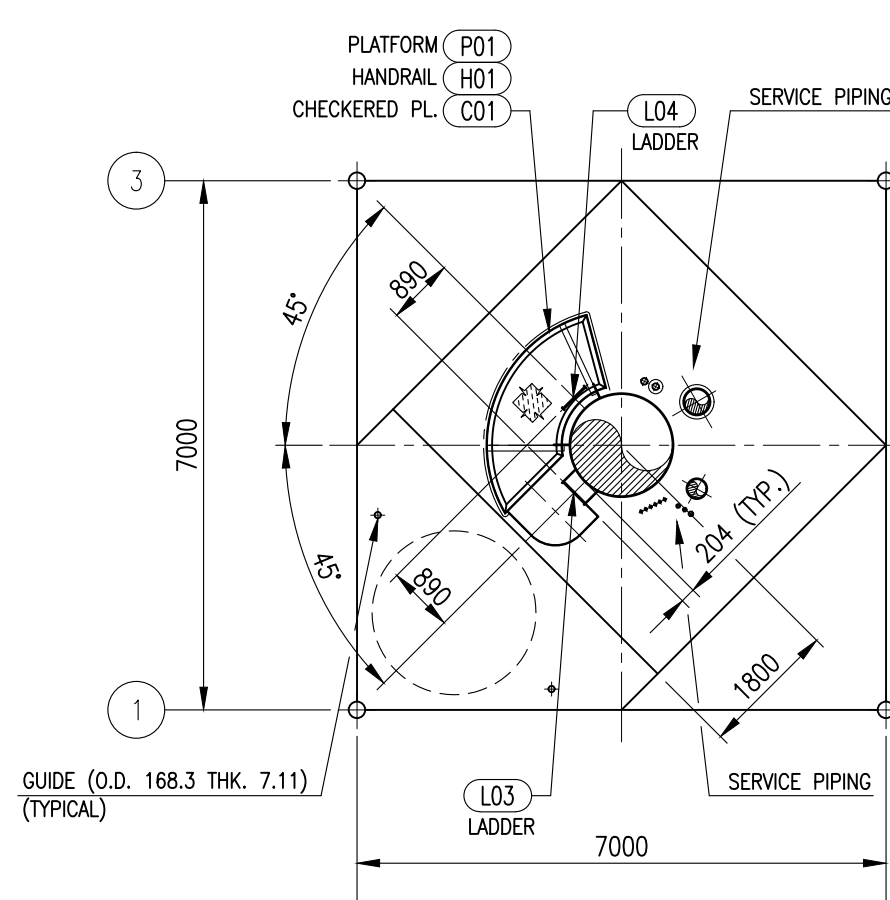


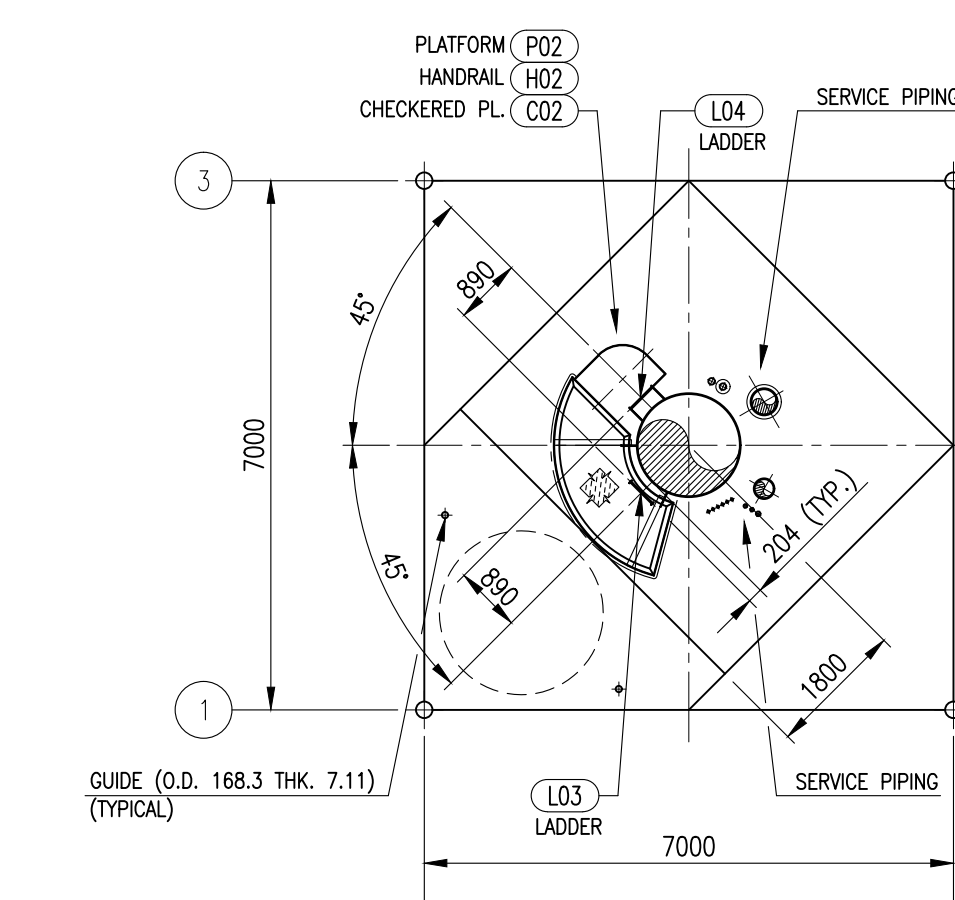


SECTION A-A
SCALE 1:75

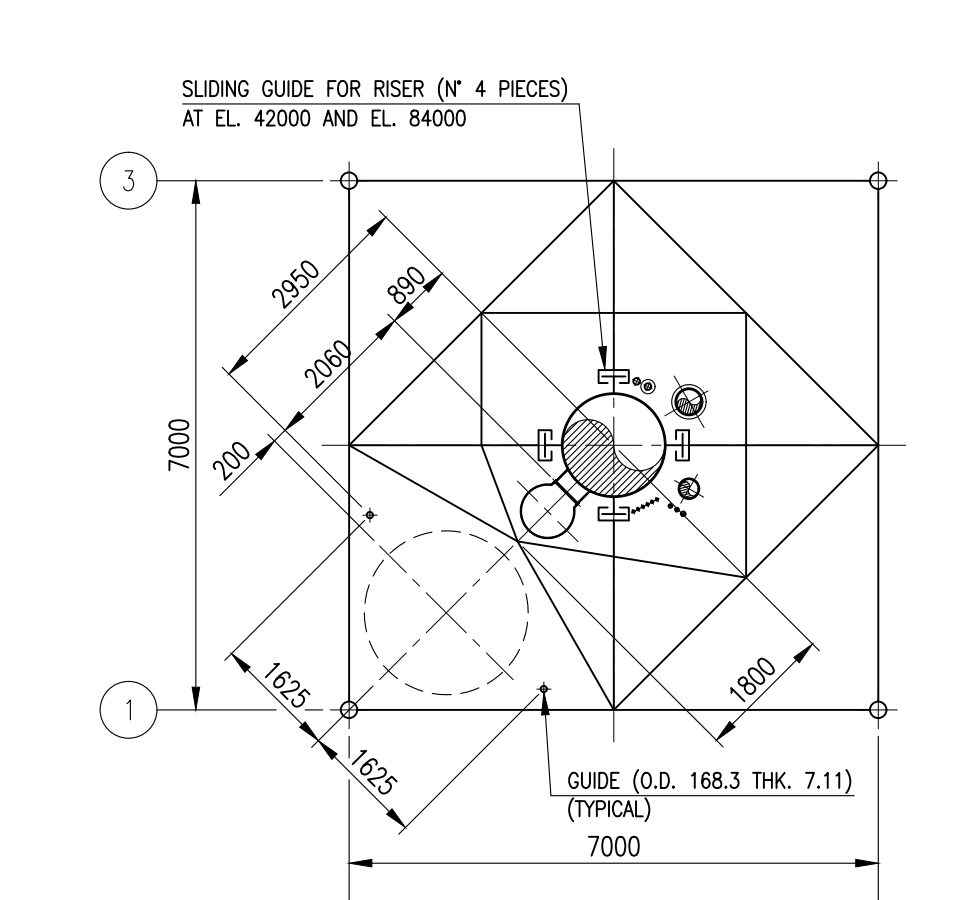
SECTION B-B
SCALE 1:75



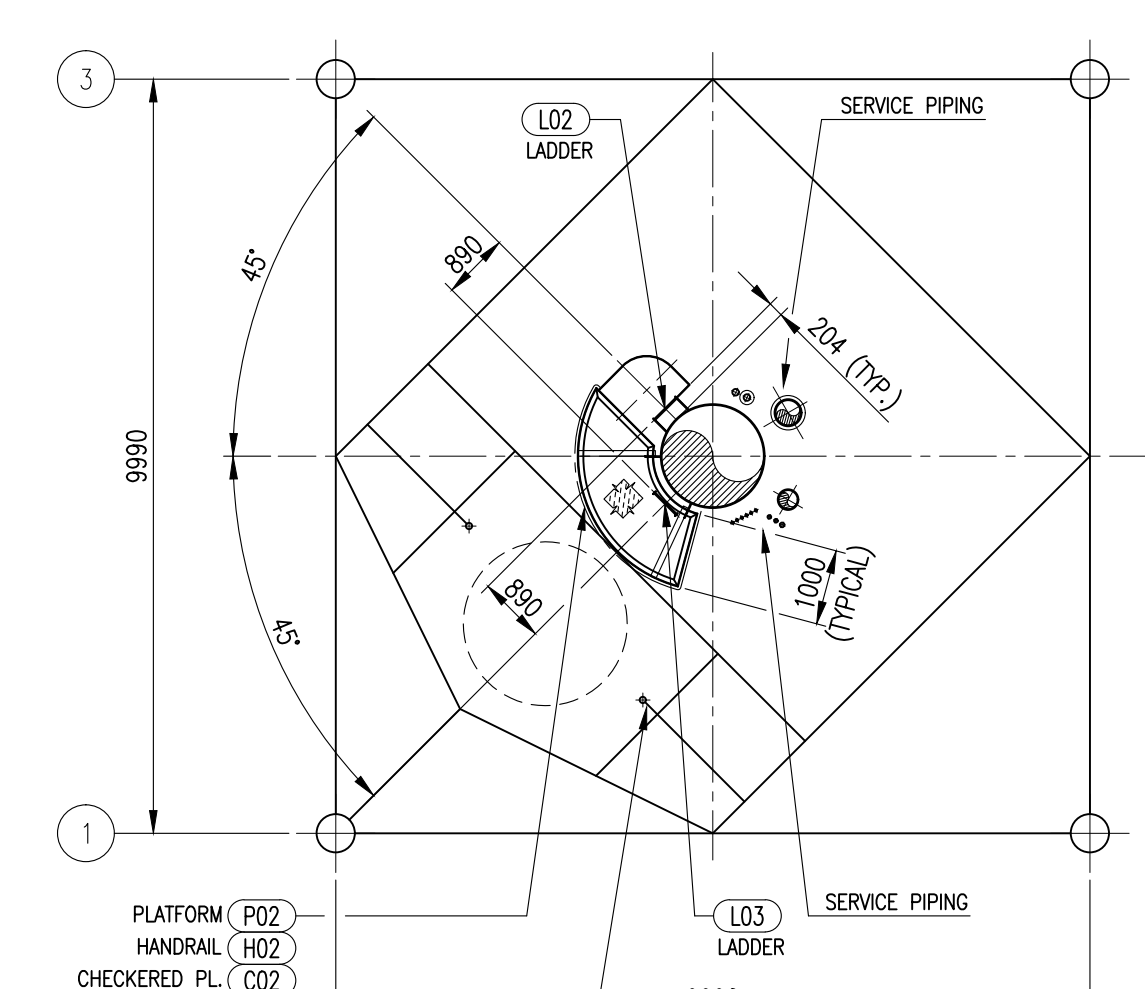
SECTION C-C
SCALE 1:100



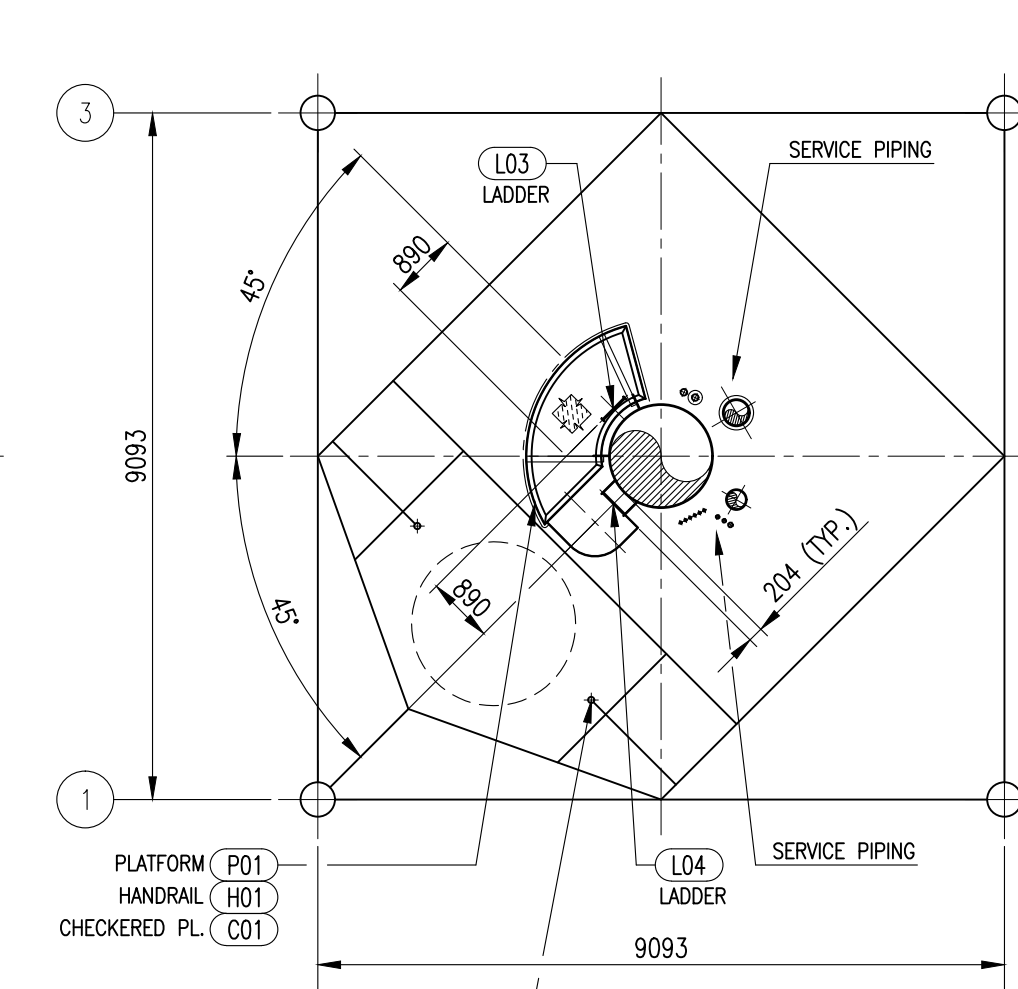
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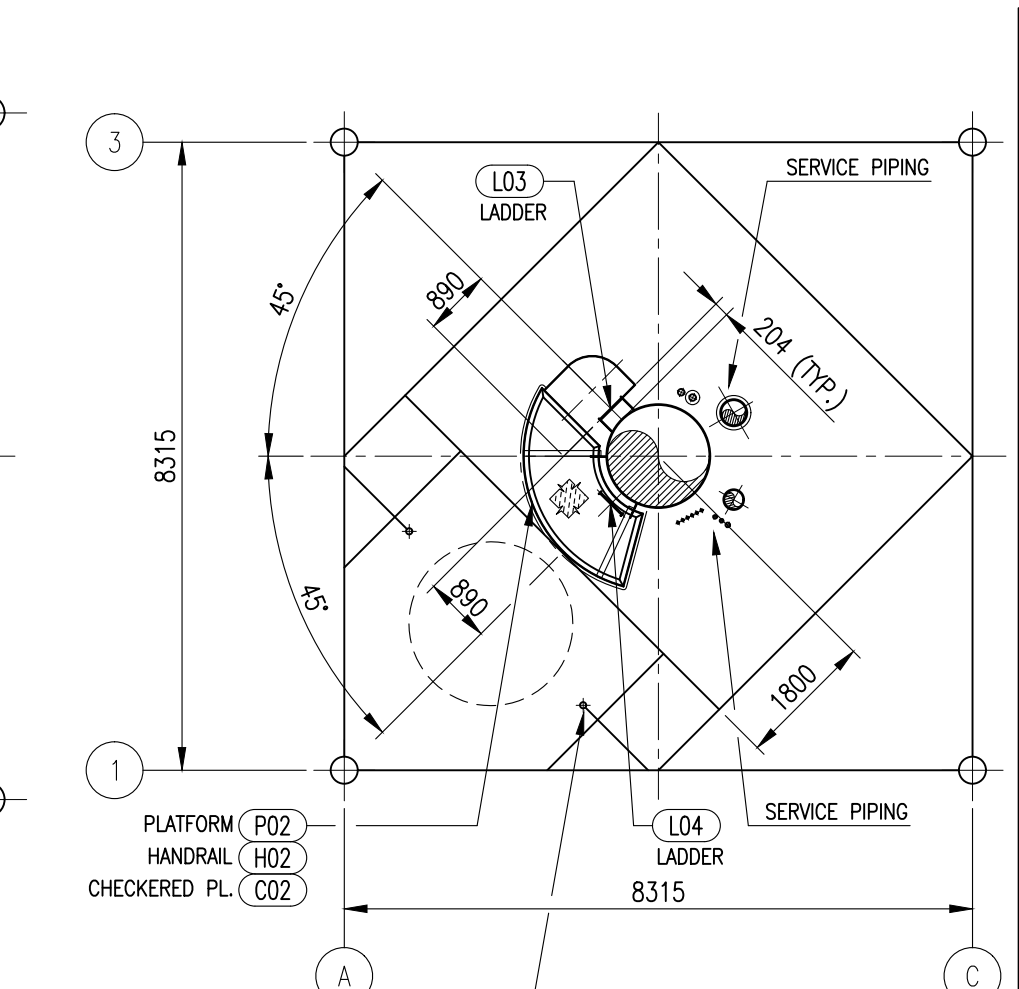
SECTION E-E
SCALE 1:100



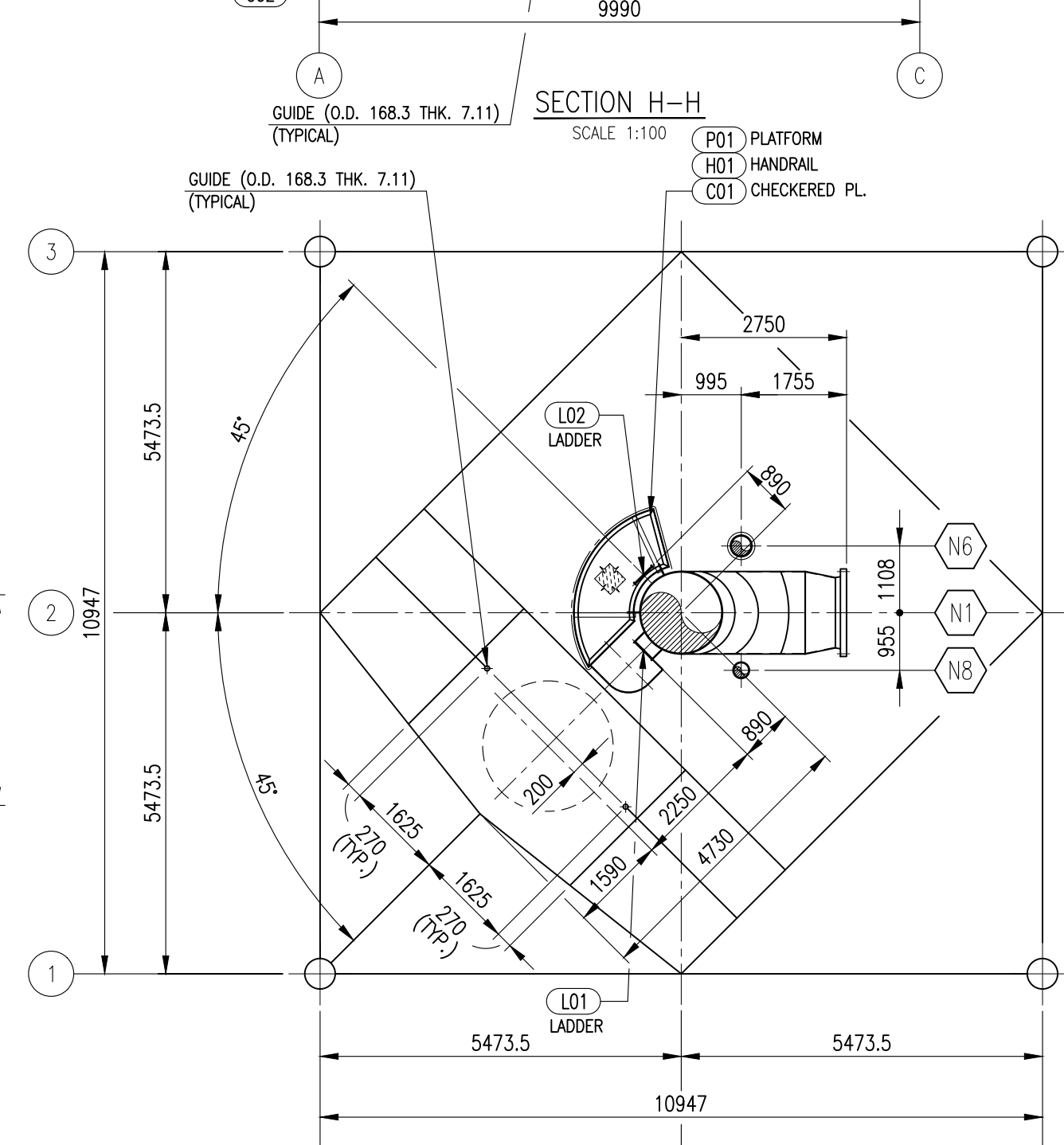
SECTION H-H
SCALE 1:100



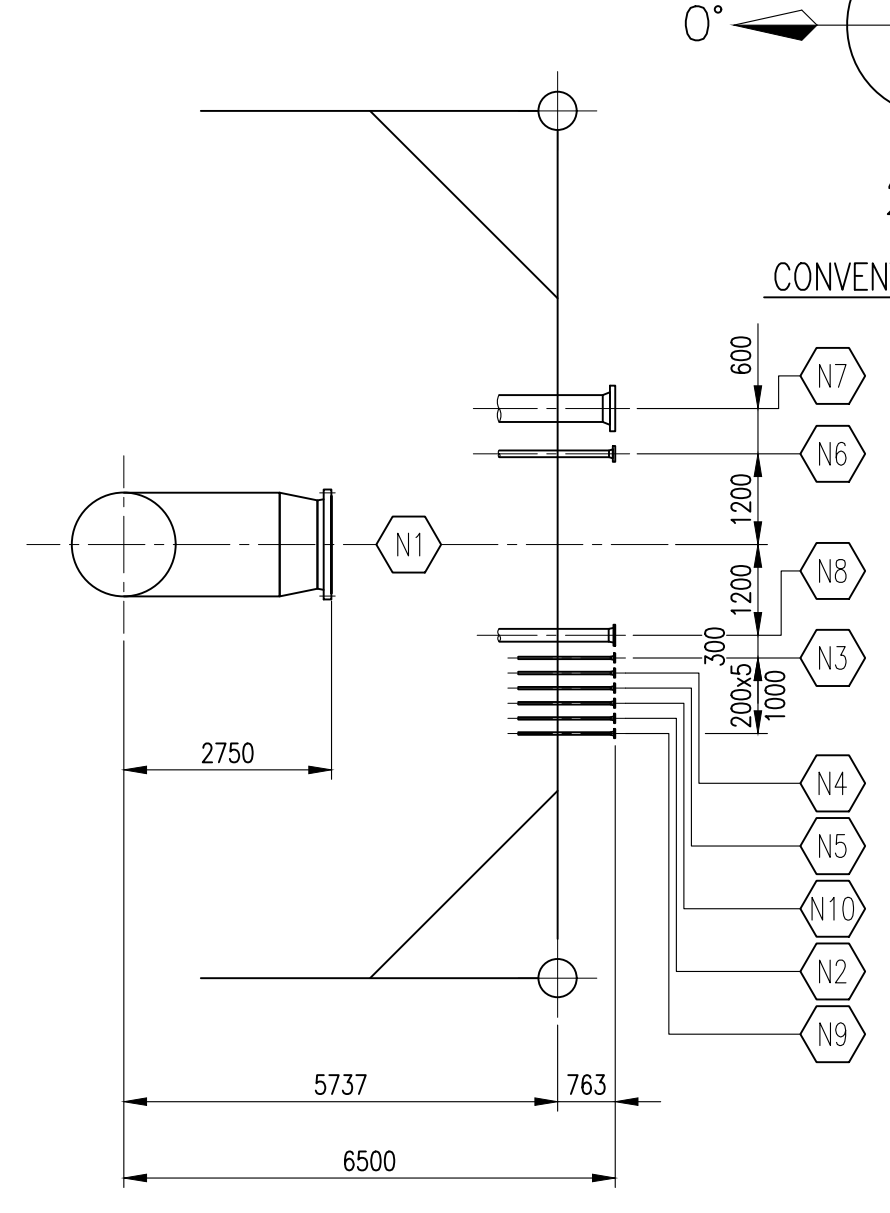
SECTION G-G
SCALE 1:100



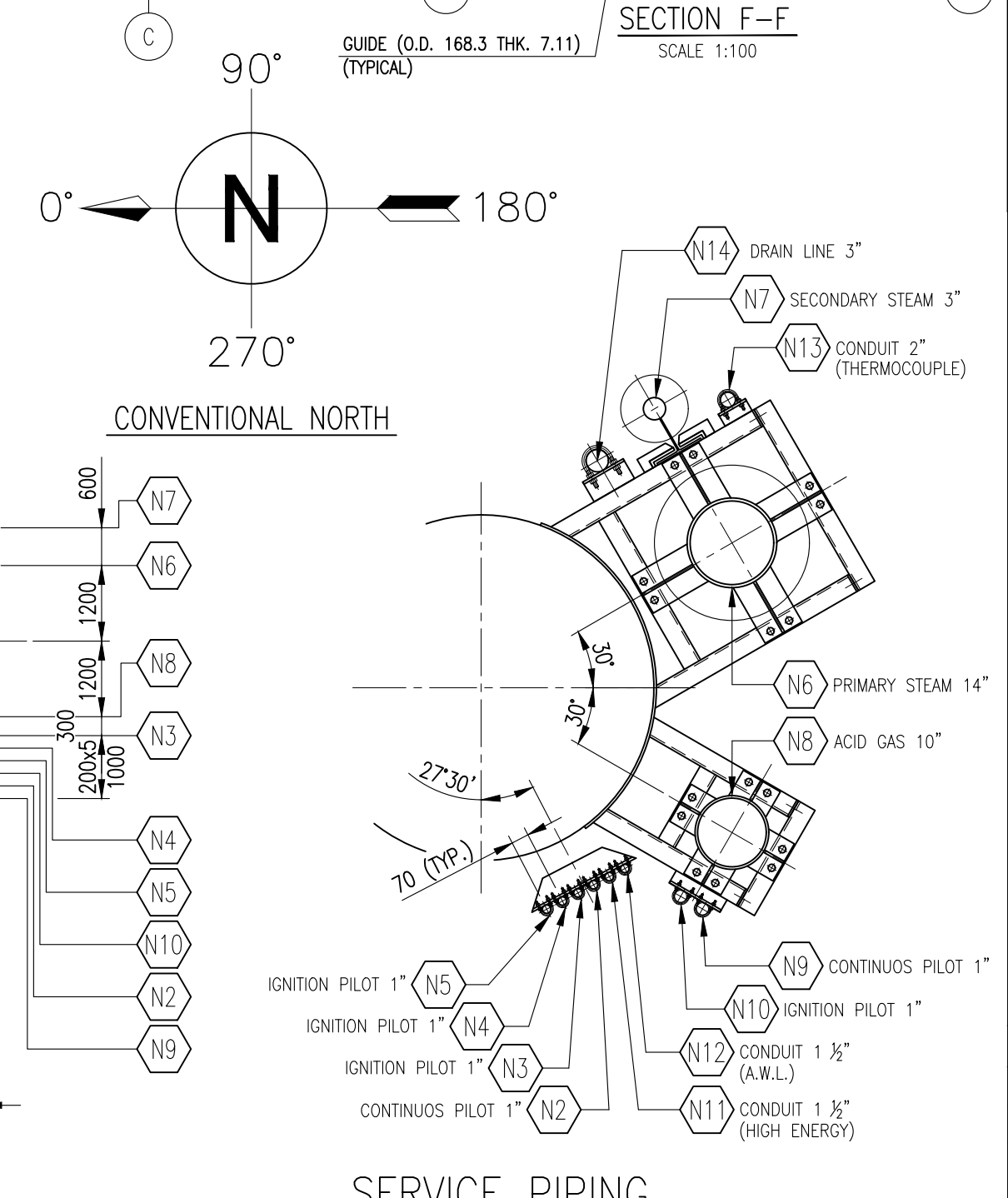
SECTION F-F
SCALE 1:100



SECTION I-I
SCALE 1:100



SECTION L-L
SCALE 1:100



SERVICE PIPING

MAX ACCEPTABLE LOADS ON INLET FLANGE	
- HYDROCARBON FLARE STACK INLET : Fix=Fiy=Fiz = 7000 Kg Mix=Miy=Miz = 24000 Kgm	
- N8 NOZZLE : Fix=Fiy=Fiz = 900 Kg Mix=Miy=Miz = 500 Kgm	
- N7 NOZZLE : Fix=Fiy=Fiz = 400 Kg Mix=Miy=Miz = 150 Kgm	
- N6 NOZZLE : Fix=Fiy=Fiz = 3500 Kg Mix=Miy=Miz = 2500 Kgm	

HCE REFERENCE DRAWINGS	
HCE REF.	DESCRIPTIONS
1486-100	P & ID
1486-102	FOUNDATION LOADS, ANCHOR BOLTS & TEMPLATE
1486-200	FUS 54" FLARE TIP G.A.
1486-201	MOLECULAR SEAL G.A.
1486-300	FN 10" FLARE TIP G.A.
1486-400	DERRICK DETAILS
1486-403	FFG/HE/AWL G.A.
1486-404	HE SKID
1486-405	AWL SYSTEM

- NOTES**
- 1) ALL DIMENSIONS ARE IN MILLIMETRES (UNLESS OTHERWISE SPECIFIED), ANGLES IN DEGREES
 - 2) NOZZLE AND FLANGE BOLT HOLES SHALL BE STRADDLED ON THE CENTERLINE OF UNIT
 - 3) FOR PAINTING SEE SPECIFICATION HCE 1486-506
 - 4) DESIGN AND INSTALLATION OF AIRCRAFT WARNING LIGHT SHALL COMPLY WITH ICAO RULES
 - 5) FOR DETAILED INFORMATION SEE CONSTRUCTION DRAWINGS
 - 6) FOR H.C.E. BATTERY LIMITS SEE P & ID 1486-100
 - 7) PIPING CLASS FOR UTILITY PIPING: STEAM LINES: DSD2
CONTINUOUS & IGNITION LINES: A1A2V

- MATERIALS :**
- ANCHOR BOLTS : ASTM A 307
 - MAIN FLARE RISER DIAM. 54" THK. 10mm : ASTM A 516 gr.70
 - MOLECULAR SEAL : ASTM A 516 gr.70
 - ACID FLARE RISER DIAM. 10" THK. 6mm : ASTM A 312 TP 316 L
 - TIPS BODY/WIND SHIELD : ASTM A 240 TP 310 S
 - FLARE TIPS INLET : ASTM A 182 TP 310 S
 - MAIN FLARE RISER, MOLECULAR SEAL FLANGES : ASTM A 105
 - ACID FLARE RISER FLANGES : ASTM A 182 TP 316 L
 - SERVICE PIPING : CONTINUOUS PILOT GAS LINES,IGNITION GAS LINE: ASTM A 106 Gr.B / A 105
CONDUIT GALVANIZED: CARBON STEEL
 - LADDERS & PLATFORMS : ASTM A 36 / A 53 PAINTED
 - GRATING : HOT DIP GALVANIZED CARBON STEEL
 - DERRICK : ASTM A 53 Gr. B
 - TEMPLATE : ASTM A 36
 - DAVIT : ASTM A 53 Gr. B (PULLEYS AISI 304)
 - OTHER STRUCTURAL STEELWORKS : ASTM A 36 / A 53
 - STEAM LINES : ASTM A 335 Gr. P11 / A 182 Gr. F11 Cl. 2
 - BOLTS FOR DERRICK : Cl. 8.8 / A 325
 - BOLTS/NUTS FOR STEAM PIPES : A 193 Gr. B16 / A 194 Gr. 4
 - BOLTS/NUTS FOR MAIN FLARE : A 193 Gr. B7 / A 194 Gr. 2H
 - BOLTS/NUTS FOR ACID FLARE : A 193 Gr. B7 / A 194 Gr. 2H
 - BOLTS/NUTS FOR GAS UTILITY PIPING : A 193 Gr. B7 / A 194 Gr. 2H

OWNER:

NATIONAL PETROCHEMICAL COMPANY
BORZOUYEH PETROCHEMICAL COMPANY

CONSORTIUM OF:

- TOYO ENGINEERING CORPORATION**
- SAZEH CONSULTANTS**
- LG Engineering & Construction Corp.**

PROJECT: 4TH AROMATICS PLANT

OWNER'S JOB No.: E-79/01 **CONSORTIUM JOB No.:** BA-0512

TORCIA SCARICO GAS

COMM. A.E. C 333-02

1	18/12/02	ISSUED FOR CONSTRUCTION	A.E.	S.B.	D.B.
0	17/10/02	ISSUED FOR APPROVAL	A.E.	S.B.	D.B.
REV. DATA	REV. DATE	DESCRIPTION	DESIGNER	CHECKED	APPROVED
CLIENTE	CLIENT	LG ENGINEERING	IMPIANTO	PLANT	4TH AROMATICS
ORDINE	ORDER	BA-0512-10	LOCALITA'	LOCALITY	BANDAR ASALDUYE - IRAN
Hamworthy Combustion Engineering S.r.l.					
20035 LISSONE (MI) - VIA GRAMSCI, 11 - ITALY - Tel. 039/2459049 - Telefax 039/2459069 - Telex 325059					
SCALA	SCALE	1:200	DESCRIZIONE	DESCRIPTION	FLARE PACKAGE GENERAL ASSEMBLY
DATA	DATE	17/10/02	NS. RIF.	DUR. REF.	1486
QUESTO DISEGNO NON PUO' ESSERE COPIATO, RIPRODOTTO O MODIFICATO A TERZI SENZA PREVENTIVA AUTORIZZAZIONE SCRITTA					
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ALFA ENGINEERING Consulenza e Progettazione dal 1983					
Hamworthy Combustion Engineering S.r.l.					
FLARE PACKAGE GENERAL ASSEMBLY					
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DWN.	17/10/02	A.E.	NAME FILE:	C333-02-101-A1-R1	
CKD.	-	F.M.A.	DWG.	33302-A1-101	REV. 1
APP.	-	ALFA ENG	SCALE:	1:200	