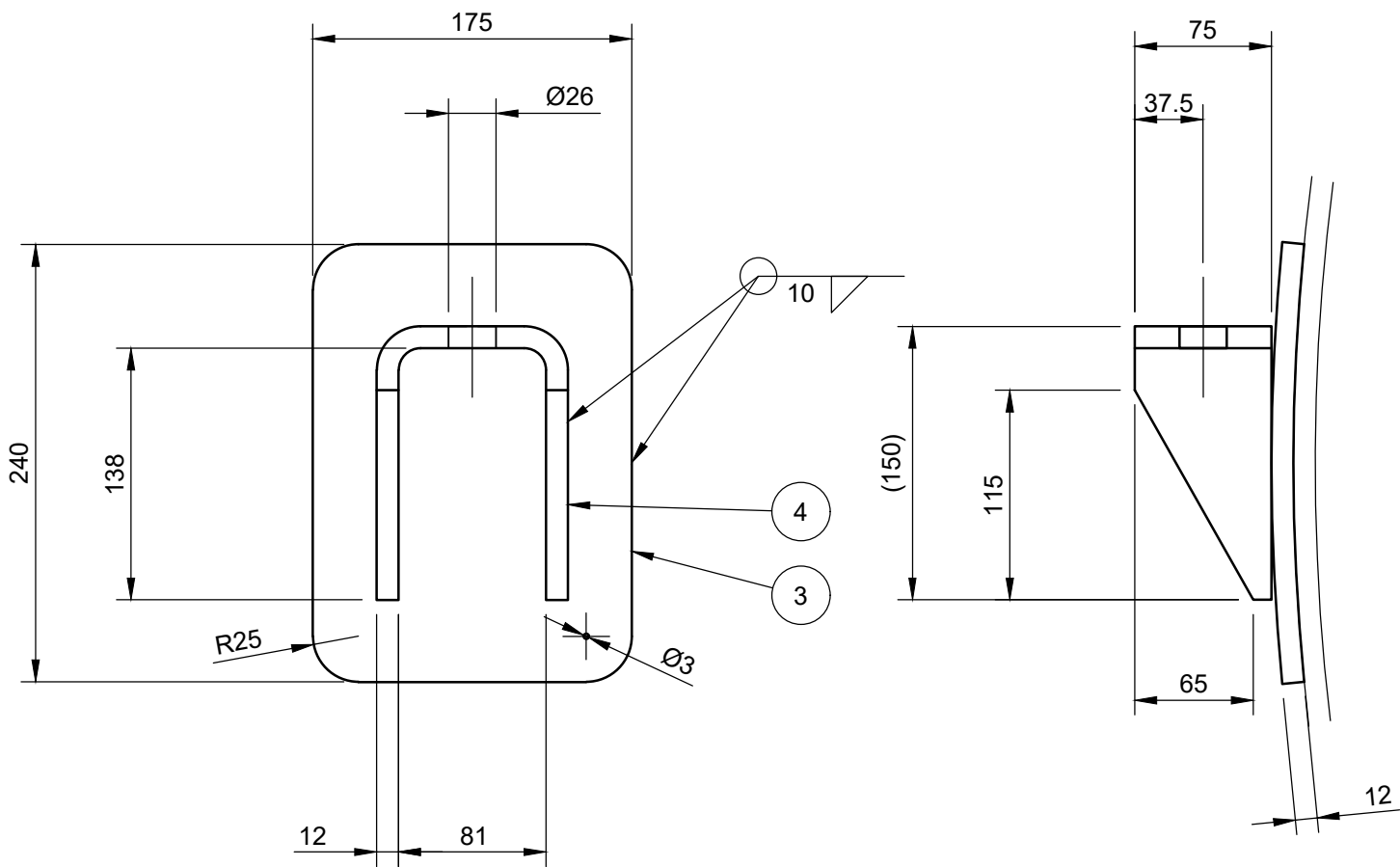
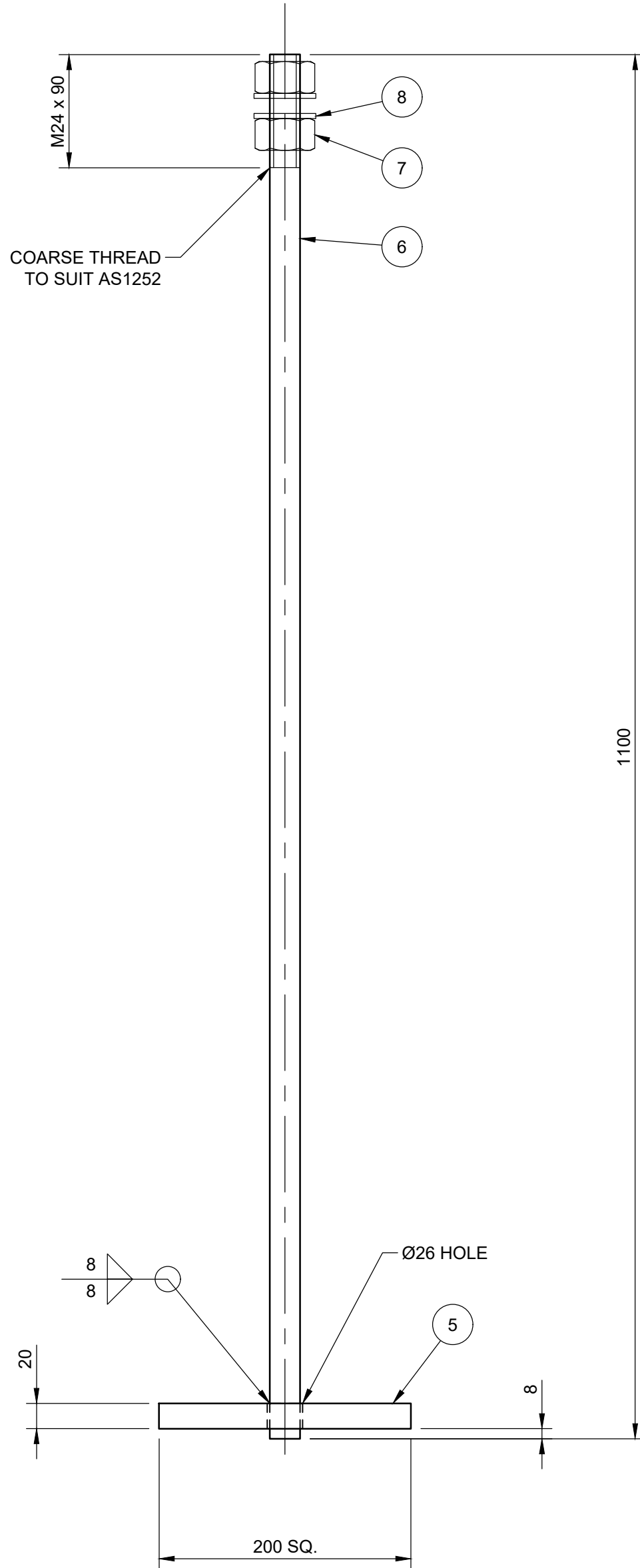


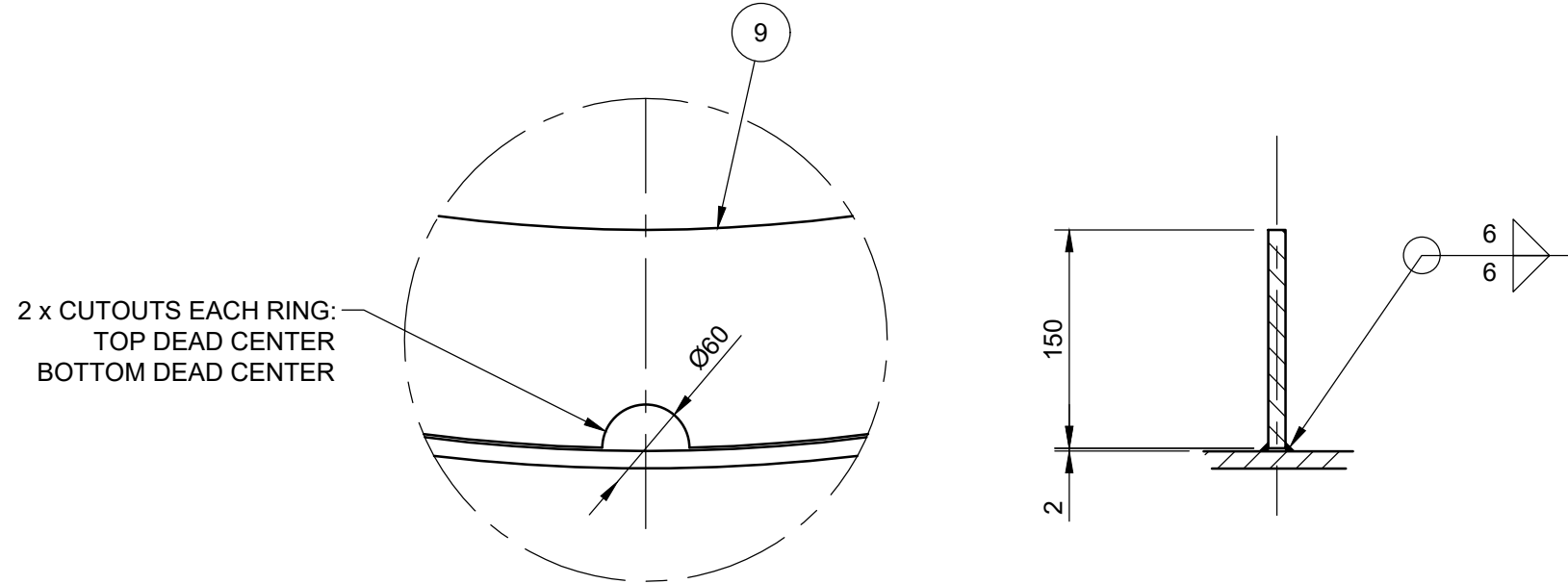
LIFTING LUG
2 REQ'D
SCALE 1:4



H.D. LUG
16 REQ'D
SCALE 1:4



H.D. ROD / ANCHOR
16 REQ'D
SCALE 1:4

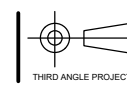


TYP STIFFENER RING
SCALE 1:5

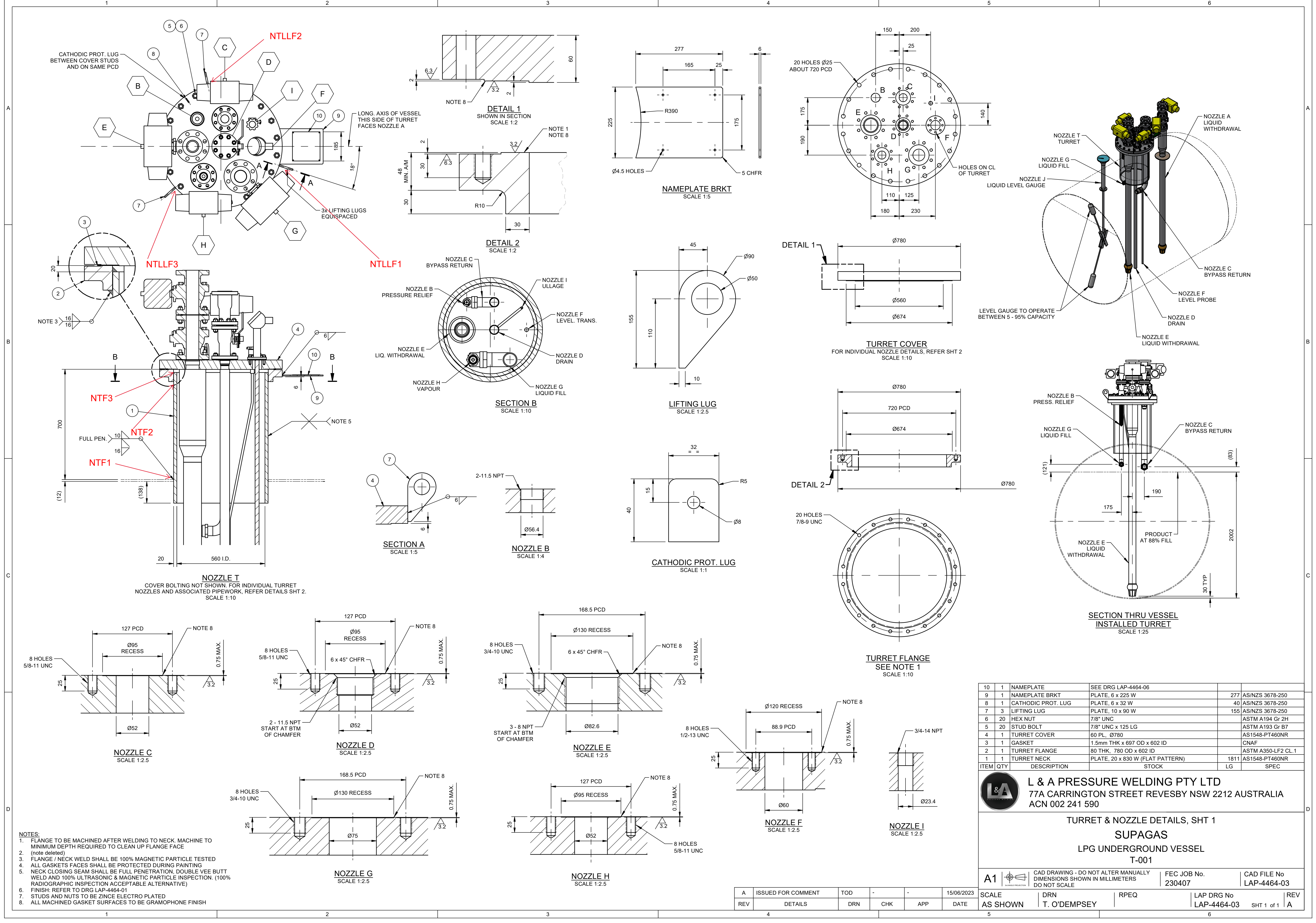
9	STIFF. RING	4	12 PL, 2434 O.D. x 2134 I.D.	AS1548-PT460NR	
8	WASHER	32	M24 FLAT WASHER	AS1252	ZINC. PL.
7	NUT	32	M24 HEX NUT Gr 8.8	AS1252	ZINC. PL.
6	ROD	16	Ø24 RD BAR	AS3679.1-300	
5	ANCHOR PLATE	16	20 PL, 200 x 200	AS3678-250	
4	H.D. LUG	16	12 PL, 366 x 75 (FLAT PATTERN)	AS1548-PT460NR	
3	REINF. PAD	16	12 PL, 240 x 175	AS1548-PT460NR	ROLL TO VESSEL O.D.
2	LIFTING LUG	2	32 PL, 250 x 150	AS3678-250	
1	REINF. PAD	2	20 PL, 450 x 200	AS1548-PT460NR or AS3678-250	ROLL TO VESSEL O.D.
ITEM	DESCRIPTION	QTY	DIMENSIONS	MATERIAL	COMMENTS

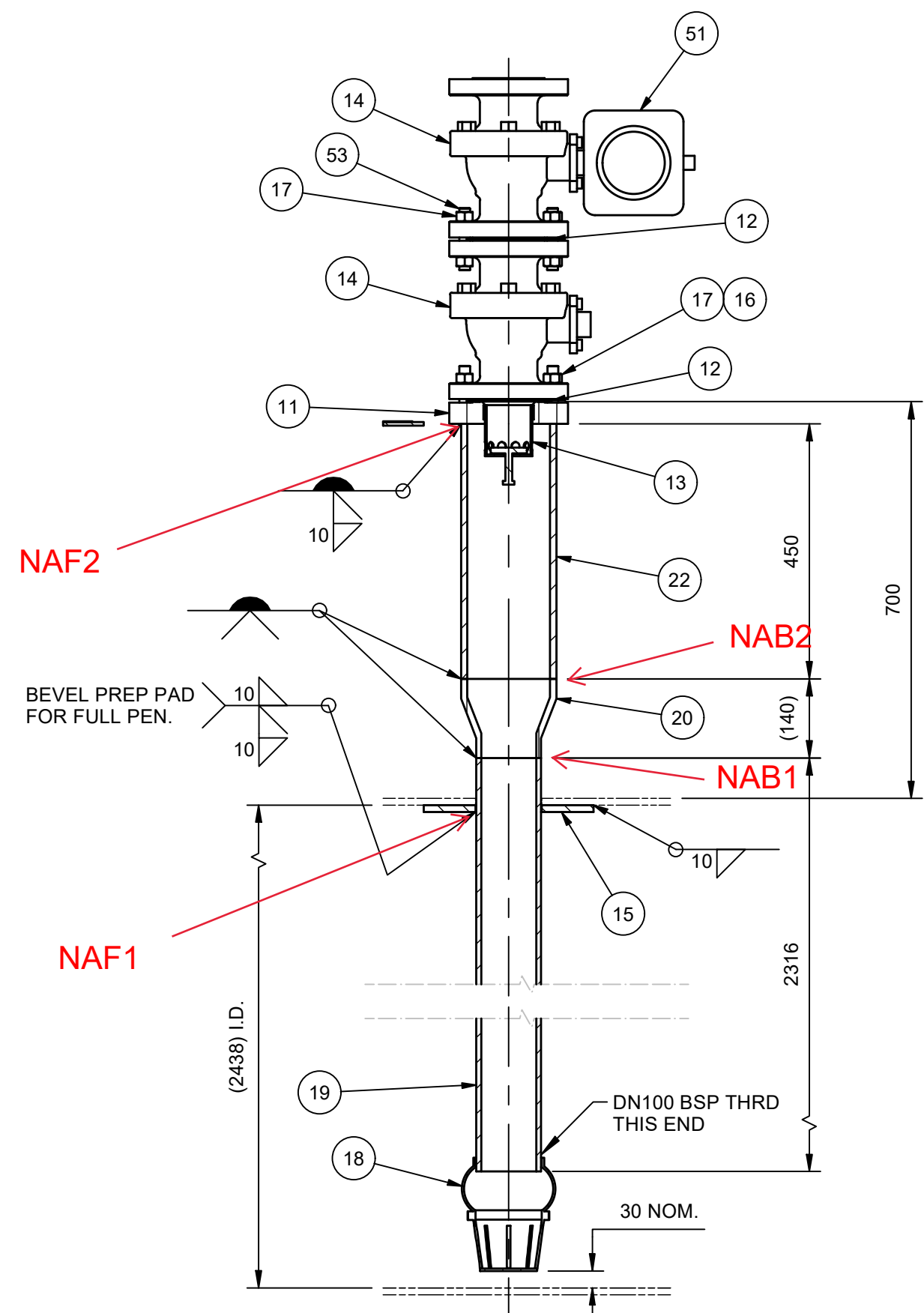
L & A PRESSURE WELDING PTY LTD
77A CARRINGTON STREET REVESBY NSW 2212 AUSTRALIA
ACN 002 241 590

LIFTING LUG, STIFFENER RING & H.D. DETAILS
SUPAGAS
LPG UNDERGROUND VESSEL
T-001

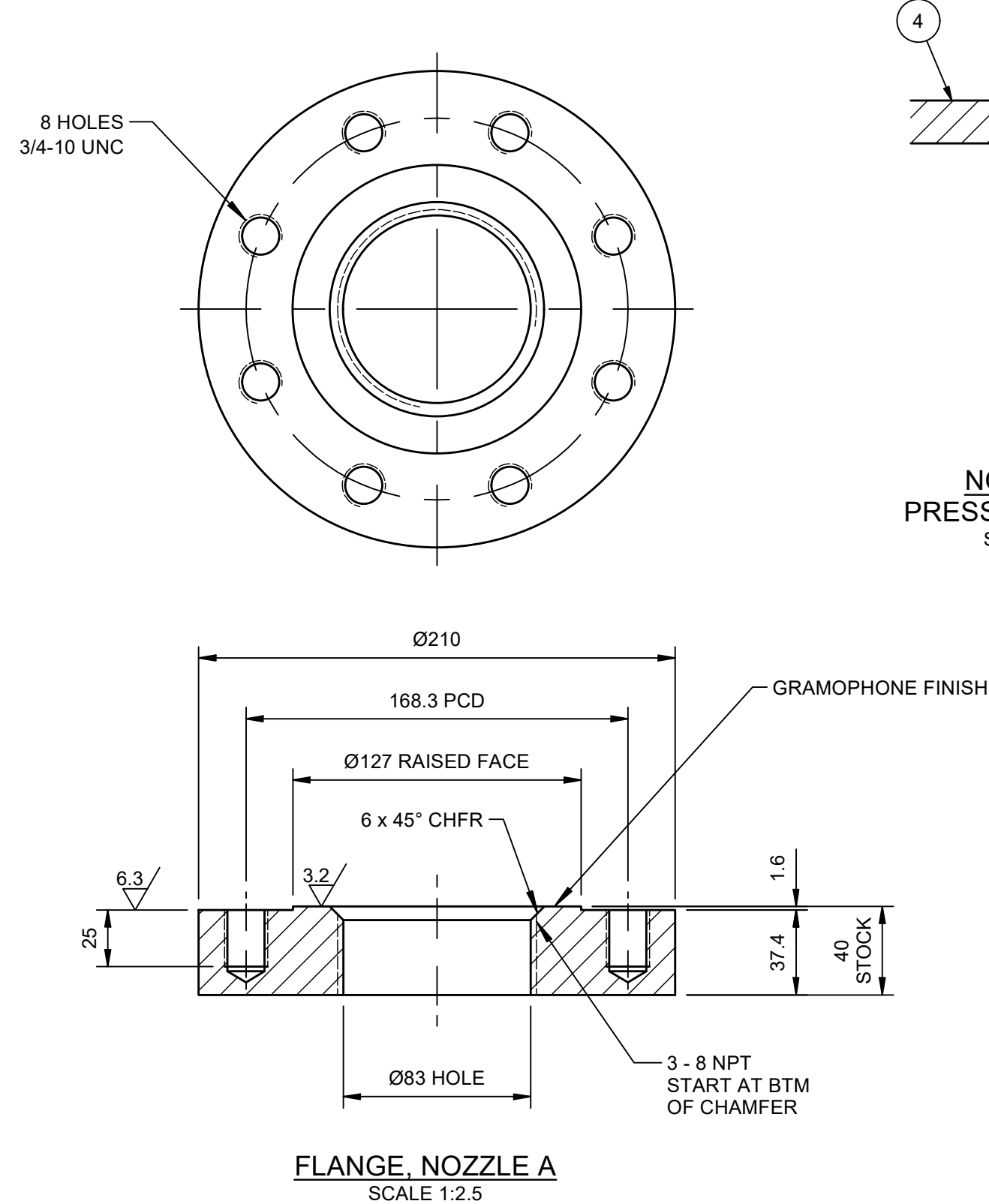
A1 |  CAD DRAWING - DO NOT ALTER MANUALLY
DIMENSIONS SHOWN IN MILLIMETERS
DO NOT SCALE
FEC JOB No. 230407
CAD FILE No: LAP-4464

A	ISSUED FOR COMMENT	TOD			15/06/2023	SCALE 1:40 UNO	DRN T. O'DEMPSEY	RPEQ	LAP DRG No: LAP-4464-02	REV
REV	DETAILS	DRN	CHK	APP	DATE					A

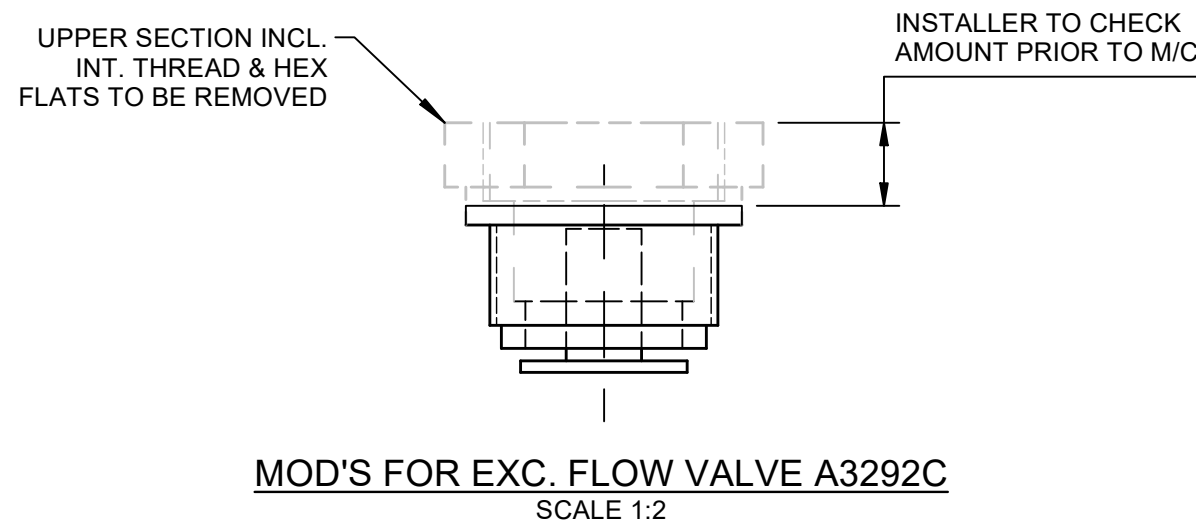




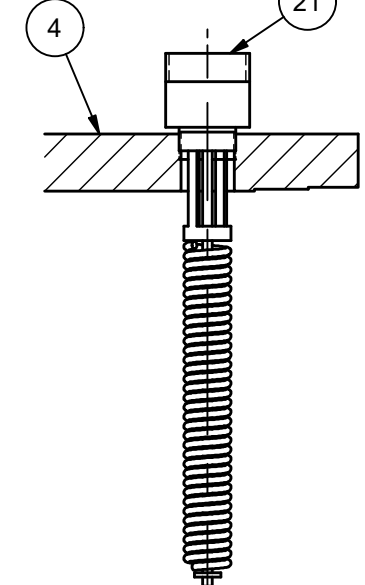
NOZZLE A
LIQUID WITHDRAWAL
SCALE 1:10



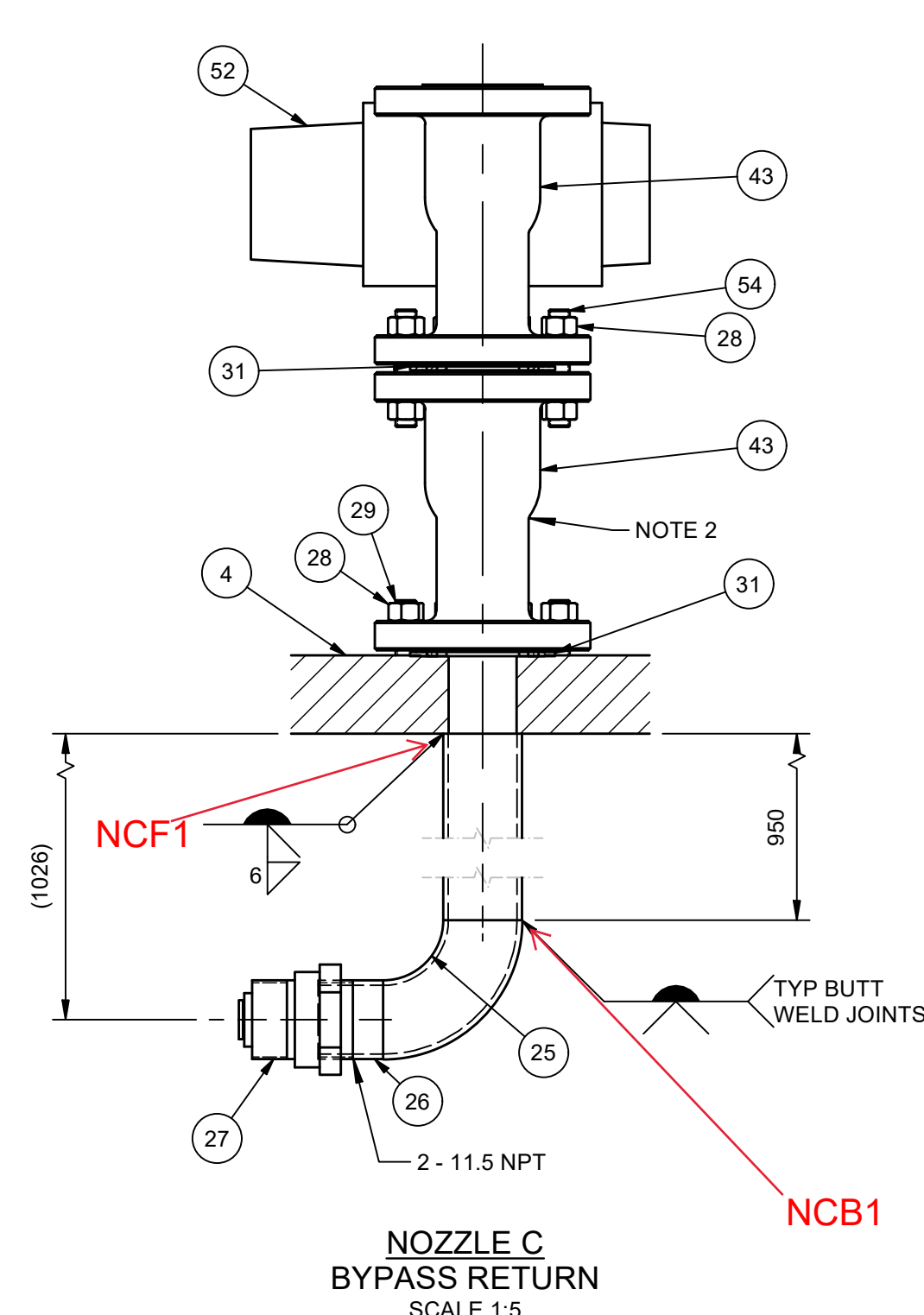
FLANGE, NOZZLE A
SCALE 1:2.5



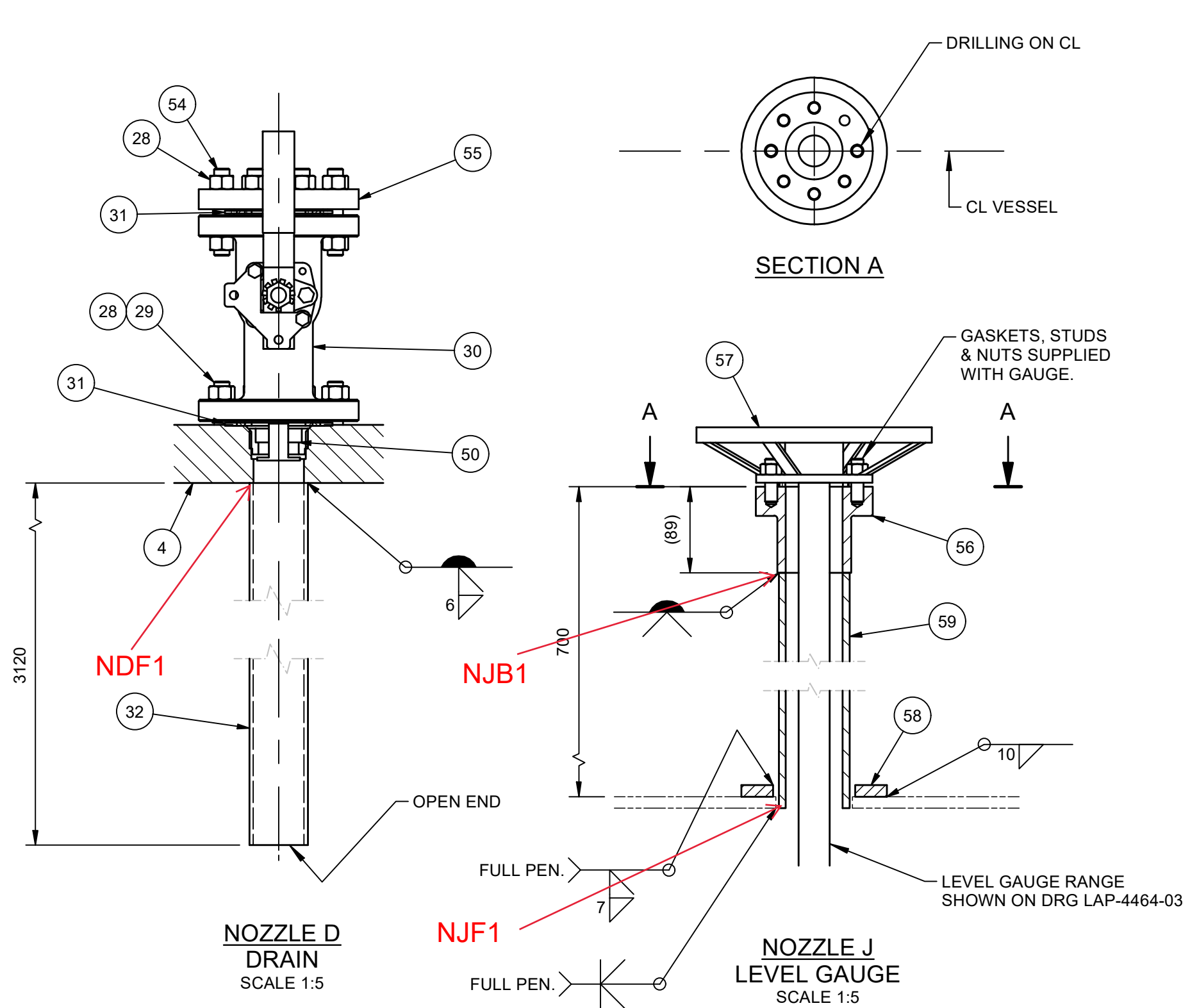
MOD'S FOR EXC. FLOW VALVE A3292C
SCALE 1:2



NOZZLE B
PRESSURE RELIEF
SCALE 1:8

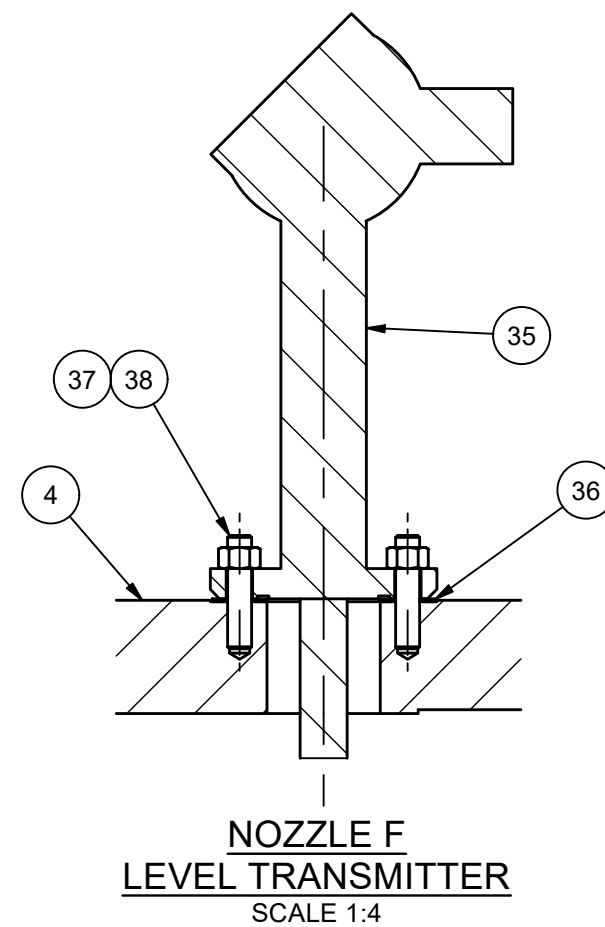


NOZZLE C
BYPASS RETURN
SCALE 1:5

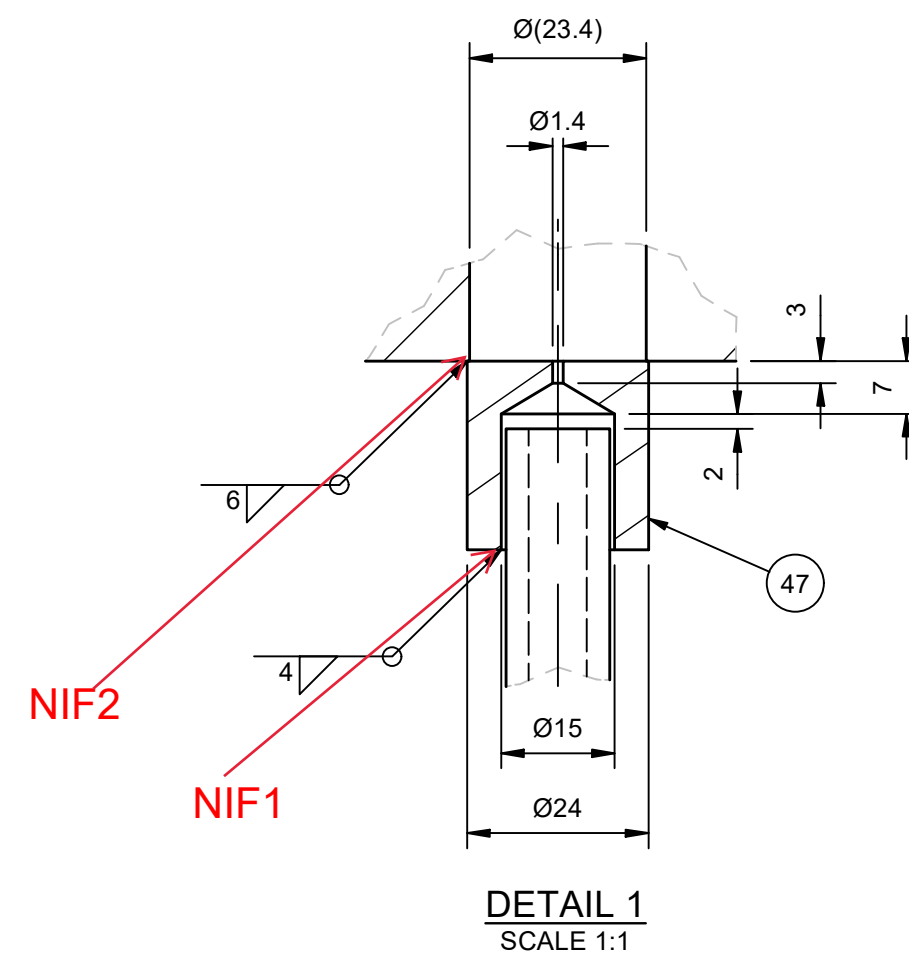


NOZZLE D
DRAIN
SCALE 1:5

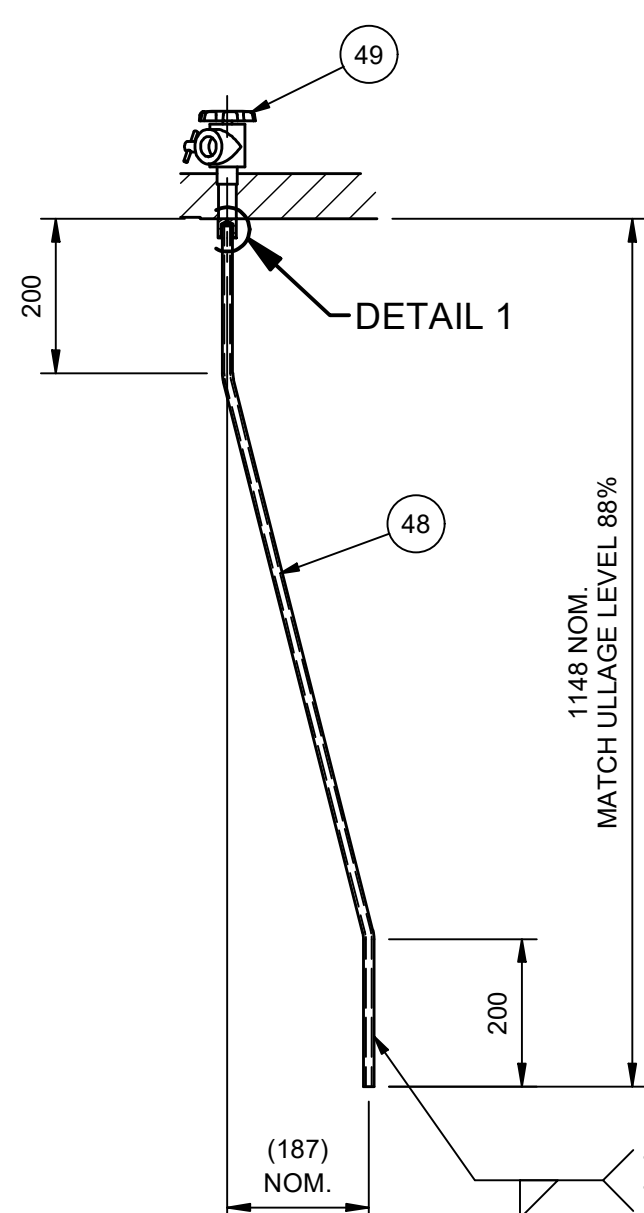
NOZZLE J
LEVEL GAUGE
SCALE 1:5



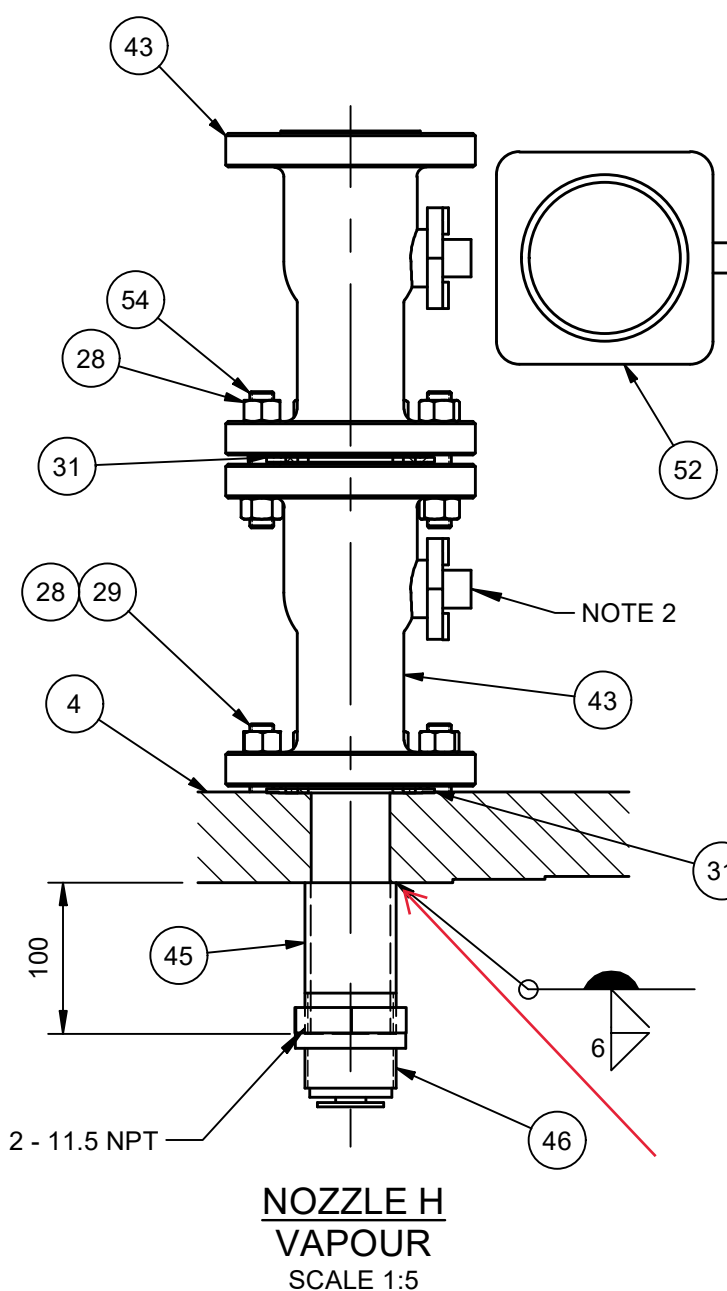
NOZZLE F
LEVEL TRANSMITTER
SCALE 1:4



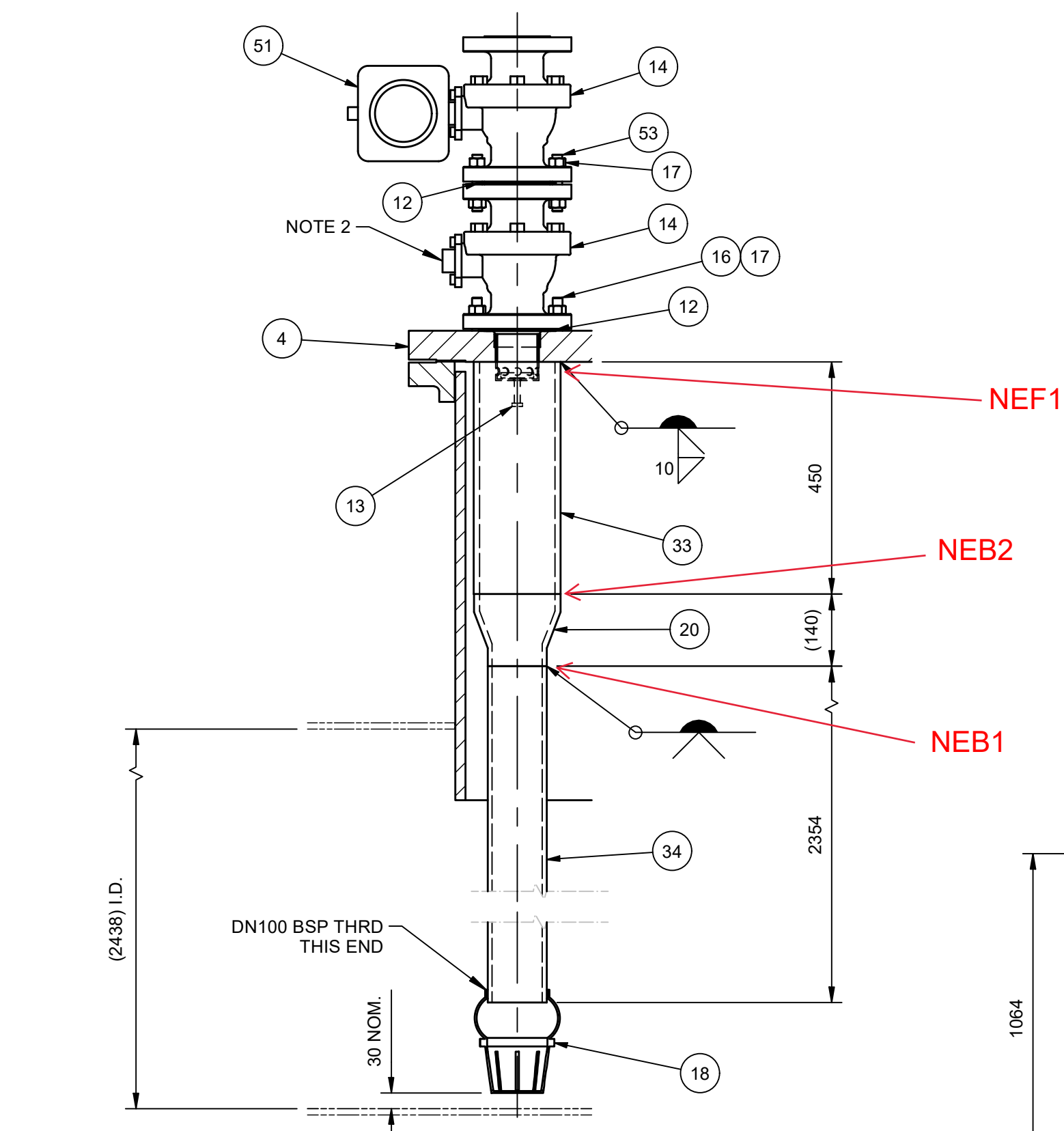
DETAIL 1
SCALE 1:1



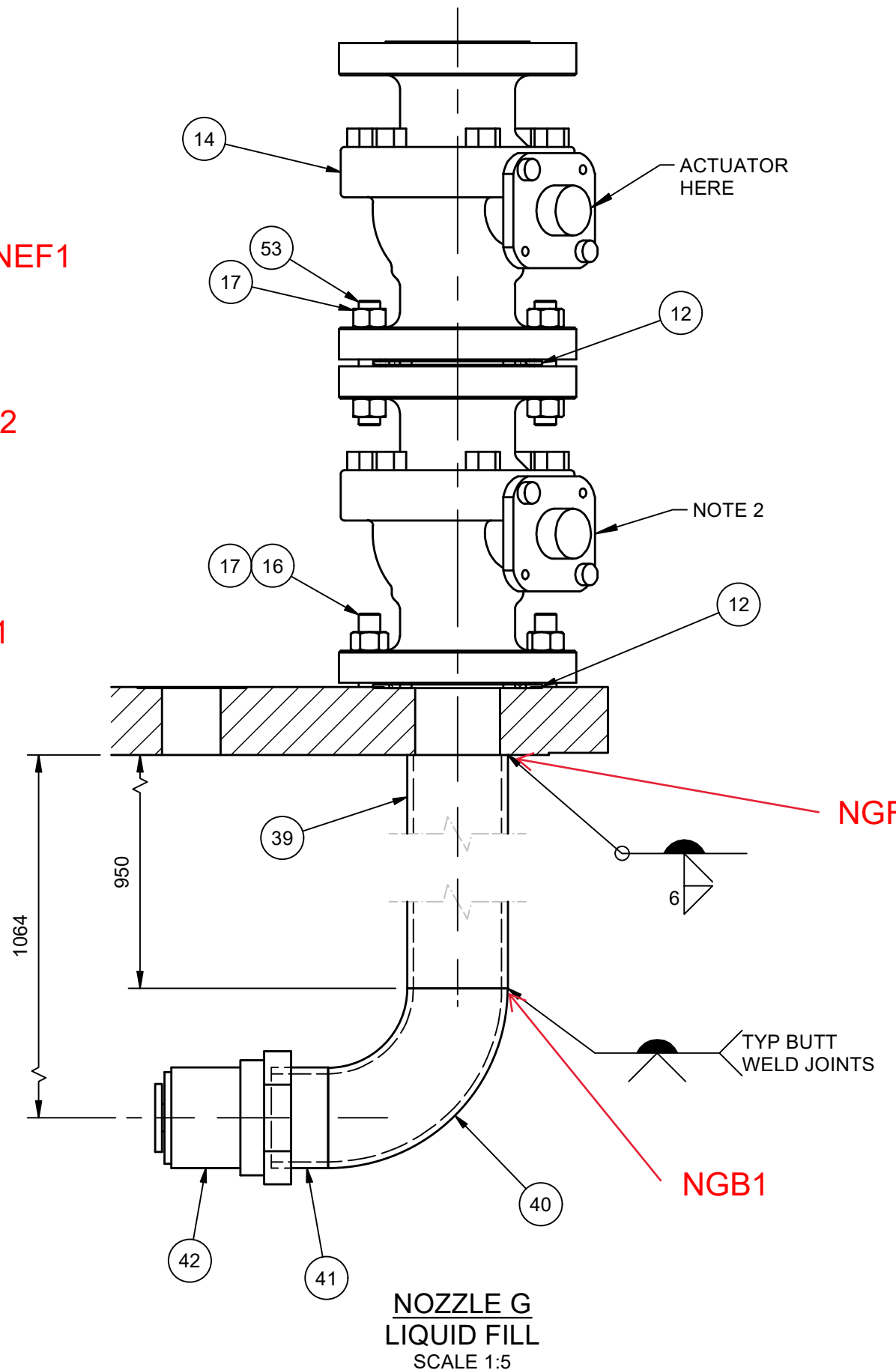
NOZZLE I
FIXED ULLAGE
SCALE 1:10



NOZZLE H
VAPOUR
SCALE 1:5



NOZZLE E
LIQUID WITHDRAWAL
SCALE 1:10



NOZZLE G
LIQUID FILL
SCALE 1:5

- NOTES:
- FOR ORIENTATION OF PIPEWORK, B.O.M. ITEMS NOT LISTED ON THIS DRG AND TURRET COVER MACHINING DETAILS, REFER TO DRG LAP-4464-03
 - HANDLES FOR MANUAL VALVES AT NOZZLES C, E, G & H NOT SHOWN THIS DRG BUT SHALL BE INSTALLED WITH HANDLES CUT SHORT

59	1	PIPE	DN65 SCH 80 SMLS, ASME B36.10M	624	ASTM A106 Gr.B
58	1	REINF. PAD	PLATE, 12 x 150 O.D. x 85 I.D.		AS1548-PT460NR
57	1	LEVEL GAUGE	ROCHESTER MODEL 6360		
56	1	ADAPTER FOR LEVEL GAUGE	ROCHESTER PART #0022-00500		
55	1	FLANGE, BLIND	DN50 CL300 BL RF FLG, ASME B16.5		ASTM A105
54	24	STUD BOLT	5/8" UNC x 90 LG		ASTM A193 Gr B7
53	24	STUD BOLT	3/4" UNC x 110 LG		ASTM A193 Gr B7
52	2	PNEUM. ACTUATOR	TO SUIT DN50 MARS BALL VALVE		
51	3	PNEUM. ACTUATOR	TO SUIT DN80 MARS BALL VALVE		
50	1	EXCESS FLOW VALVE, MODIFIED	REGO A3292C, 2" NPT (SEE DETAIL)		BRASS
49	1	ANGLE VALVE	REGO A2805C		
48	1	ULLAGE PIPE	DN80 SCH80 SMLS PIPE ASME B16.10	1152	ASTM A106-B
47	1	ULLAGE SOCKET	Ø24 RD. BAR (SEE DETAIL)	25	AS/NZS 3679.1-300
46	1	EXCESS FLOW VALVE	REGO A3292C, 2" NPT		CADMIUM / SS
45	1	PIPE	DN50 SCH 40, SMLS ASME B36.10M	100	ASTM A106 Gr.B
43	4	BALL VALVE	DN50 CL300 RF FLG, 2 PC, FULL PORT		MARS SERIES 90D
42	1	CHECK VALVE	REGO A3196, 3" NPT		CADMIUM / SS
41	1	PIPE	DN80 SCH 40, SMLS ASME B36.10M	50	ASTM A106 Gr.B
40	1	ELBOW, LR	DN80 SCH40, 90°, ASME B16.9		ASTM A234-WPB
39	1	PIPE	DN80 SCH 40, SMLS ASME B36.10M	950	ASTM A106 Gr.B
38	8	STUD BOLT	1/2" UNC x 60 LG		ASTM A193 Gr B7
37	16	HEX NUT	1/2" UNC		ASTM A194 Gr 2H
36	1	GASKET	TO SUIT BINTECH B12000 FLANGE		
35	1	LEVEL SENSOR	BINTECH B12000		
34	1	PIPE	DN100 SCH 80, SMLS ASME B36.10M	2354	ASTM A106 Gr.B
33	1	PIPE	DN150 SCH 80, SMLS ASME B36.10M	450	ASTM A106 Gr.B
32	1	PIPE	DN50 SCH 40, SMLS ASME B36.10M	3120	ASTM A106 Gr.B
31	6	GASKET	DN50 SPIRAL WD, CL300, 316SS RINGS		ASME B16.20
30	1	BALL VALVE, MANUAL	DN50 CL300 RF FLG, 2 PC, FULL PORT		MARS SERIES 90D
29	24	STUD BOLT	5/8" UNC x 70 LG		ASTM A193 Gr B7
28	72	HEX NUT	5/8" UNC		ASTM A194 Gr 2H
27	1	CHECK VALVE	REGO A3186, 2" NPT		CADMIUM / SS
26	1	PIPE	DN50 SCH 40, SMLS ASME B36.10M	50	ASTM A106 Gr.B
25	1	ELBOW, LR	DN50 SCH40, 90°, ASME B16.9		ASTM A234-WPB
24	1	PIPE	DN50 SCH 40, SMLS ASME B36.10M	950	ASTM A106 Gr.B
21	1	PSV	FISHER H284 - 225 psi 2" NPT		BRASS / SS
22	1	PIPE	DN150 SCH 80, SMLS ASME B36.10M	450	ASTM A106 Gr.B
20	2	REDUCER, CONC	DN150 x DN100 SCH80, ASME B16.9		ASTM A234-WPB
19	1	PIPE	DN100 SCH 80, SMLS ASME B36.10M	2316	ASTM A106 Gr.B
18	2	FOOT VALVE	DN100 BAKER'S VBF 94, BSP THRD		BRASS
17	72	HEX NUT	3/4" UNC		ASTM A194 Gr 2H
16	24	STUD BOLT	3/4" UNC x 90 LG		ASTM A193 Gr B7
15	1	REINF. PAD	PLATE, 12 x 300 O.D. x 117 I.D.		AS1548-PT460NR
14	6	BALL VALVE	DN80 CL300 RF FLG, 2 PC, FULL PORT		MARS SERIES 90D
13	2	EXCESS FLOW VALVE	REGO A3500V6		CADMIUM / SS
12	6	GASKET	DN80 SPIRAL WD, CL300, 316SS RINGS		ASME B16.20
11	1	FLANGE, NOZZLE A	40 PL, Ø210		AS1548-PT460NR
ITEM	QTY	DESCRIPTION	STOCK	LG	SPEC

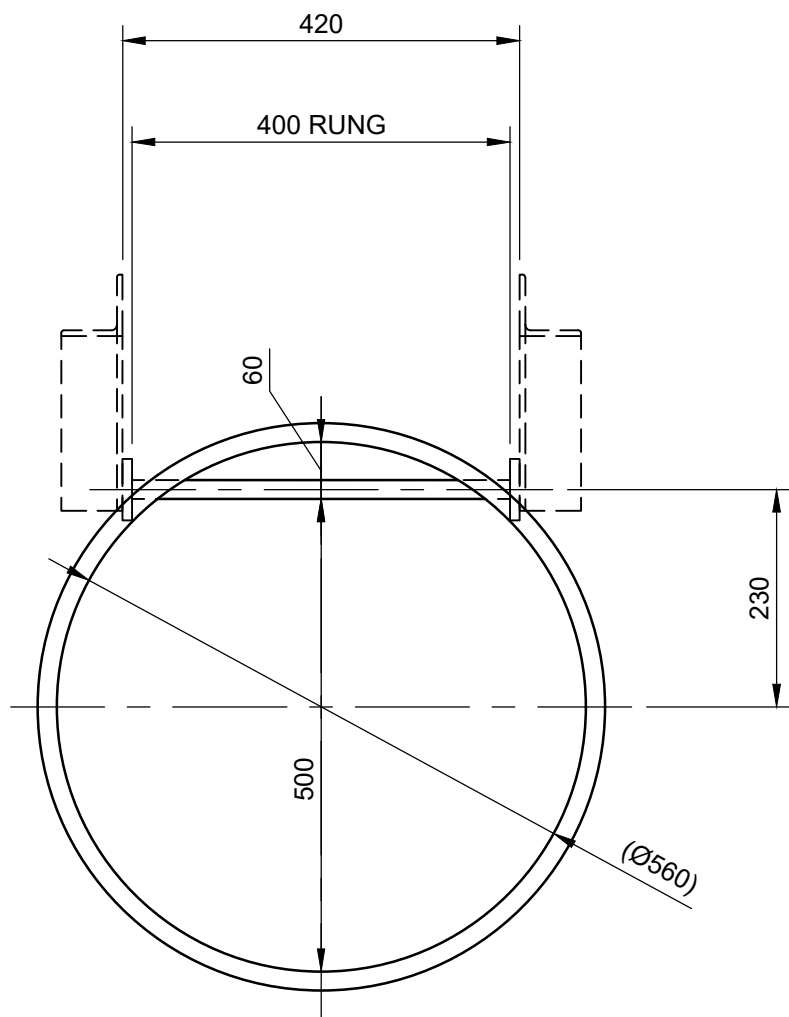
L & A PRESSURE WELDING PTY LTD
77A CARRINGTON STREET REVESBY NSW 2212 AUSTRALIA
ACN 002 241 590

TURRET & NOZZLE DETAILS, SHT 2
SUPAGAS
LPG UNDERGROUND VESSEL
T-001

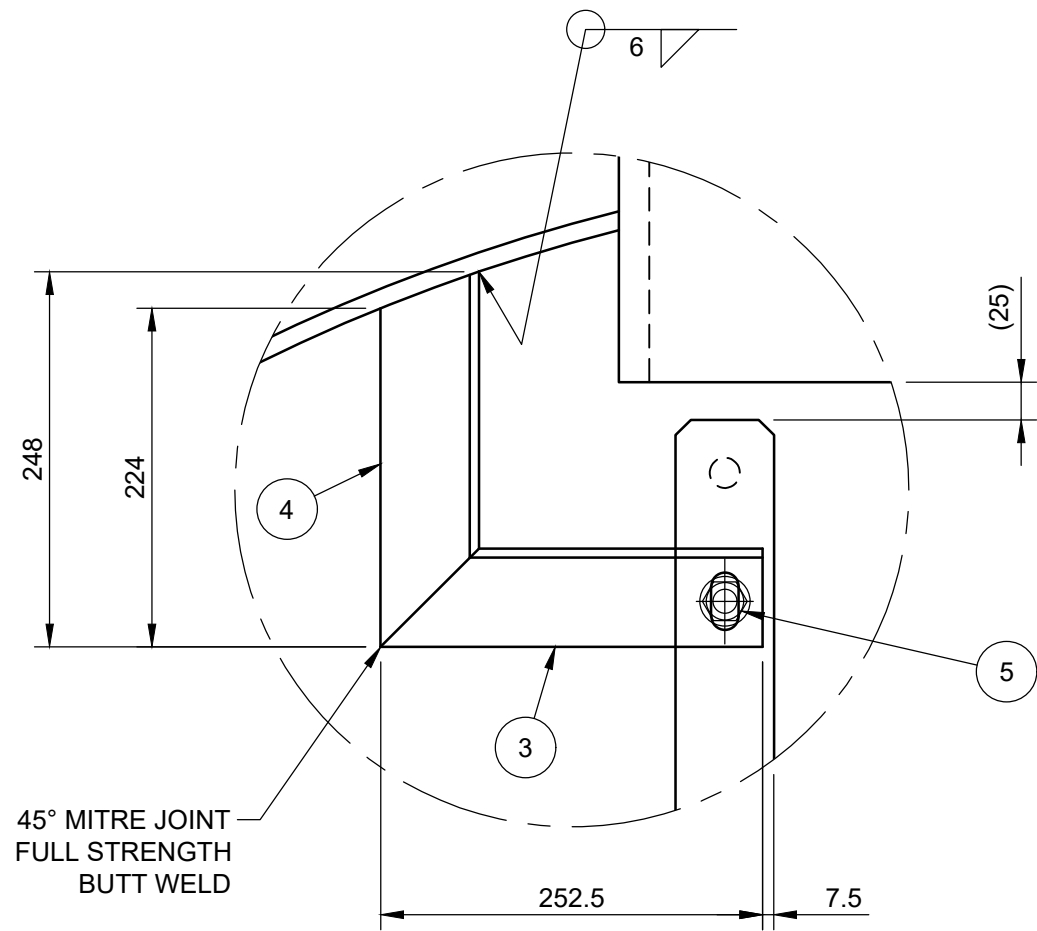
A1 CAD DRAWING - DO NOT ALTER MANUALLY
DIMENSIONS SHOWN IN MILLIMETERS
DO NOT SCALE
FEC JOB No.
230407
CAD FILE No
LAP-4464-04

A	ISSUED FOR COMMENT	TOD	-	-	15/06/2023	SCALE	DRN	RPEQ	LAP DRG No	REV
REV	DETAILS	DRN	CHK	APP	DATE	AS SHOWN	T. O'DEMPSEY		LAP-4464-04	SHT 1 of 1 A

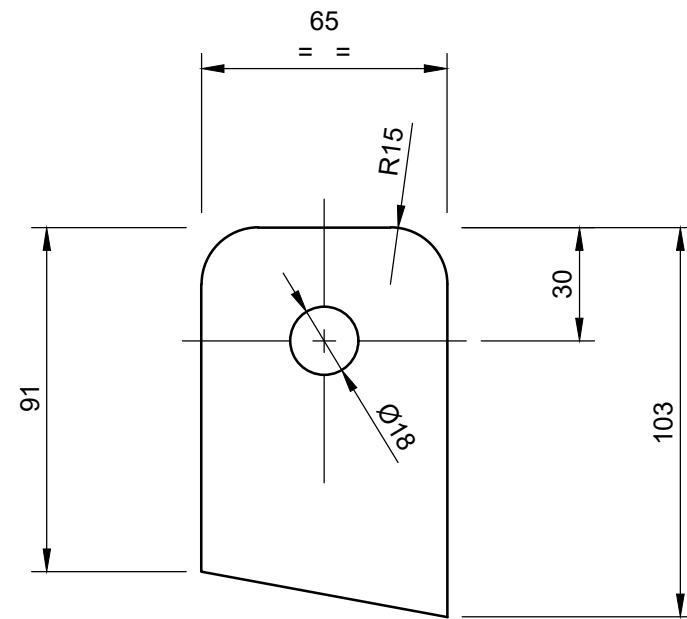
- NOTES:
- ALL WELDING TO AS1554.1 SP
 - REMOVE ALL SHARP EDGES AND WELD SPLATTER



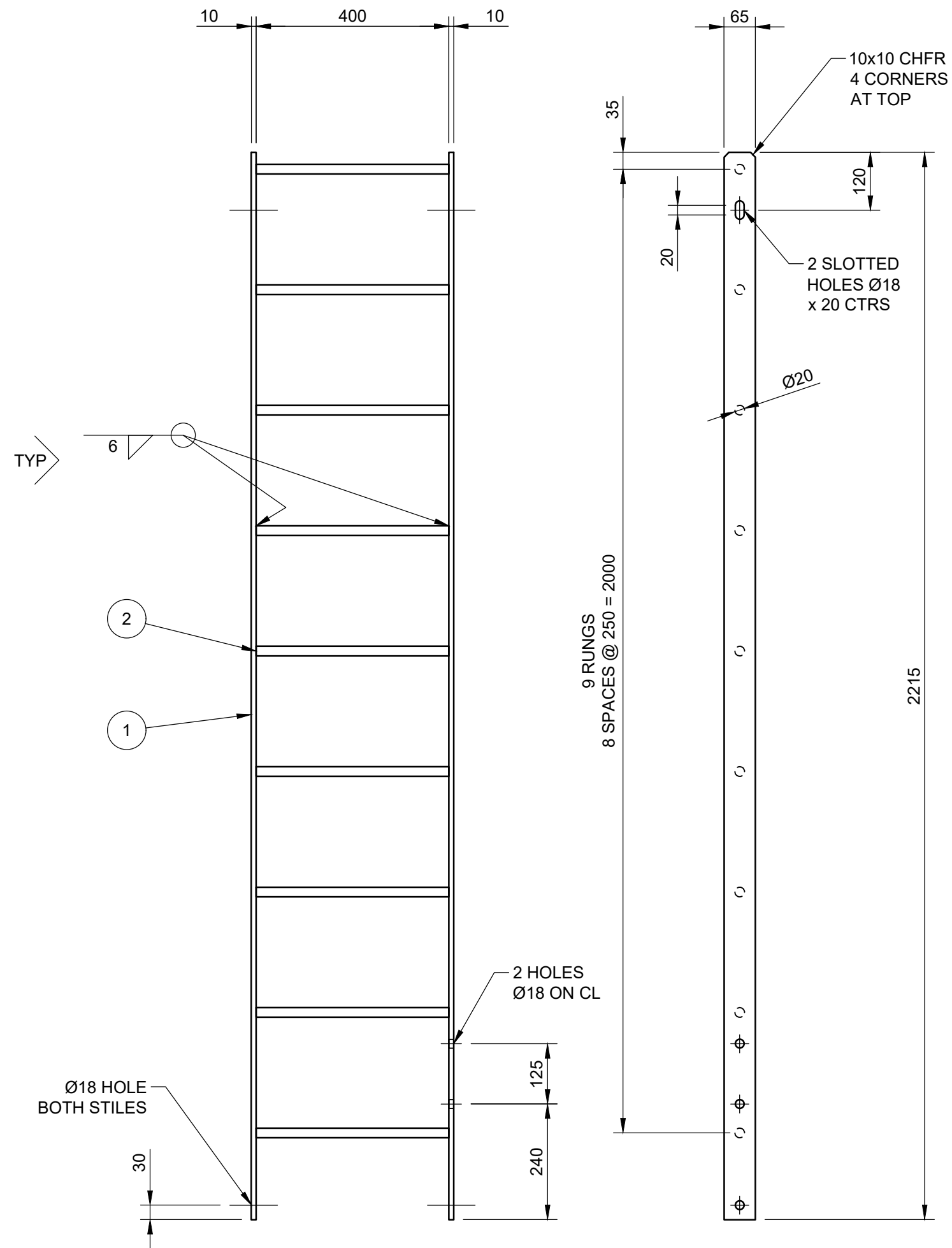
SECTION A
SCALE 1:8



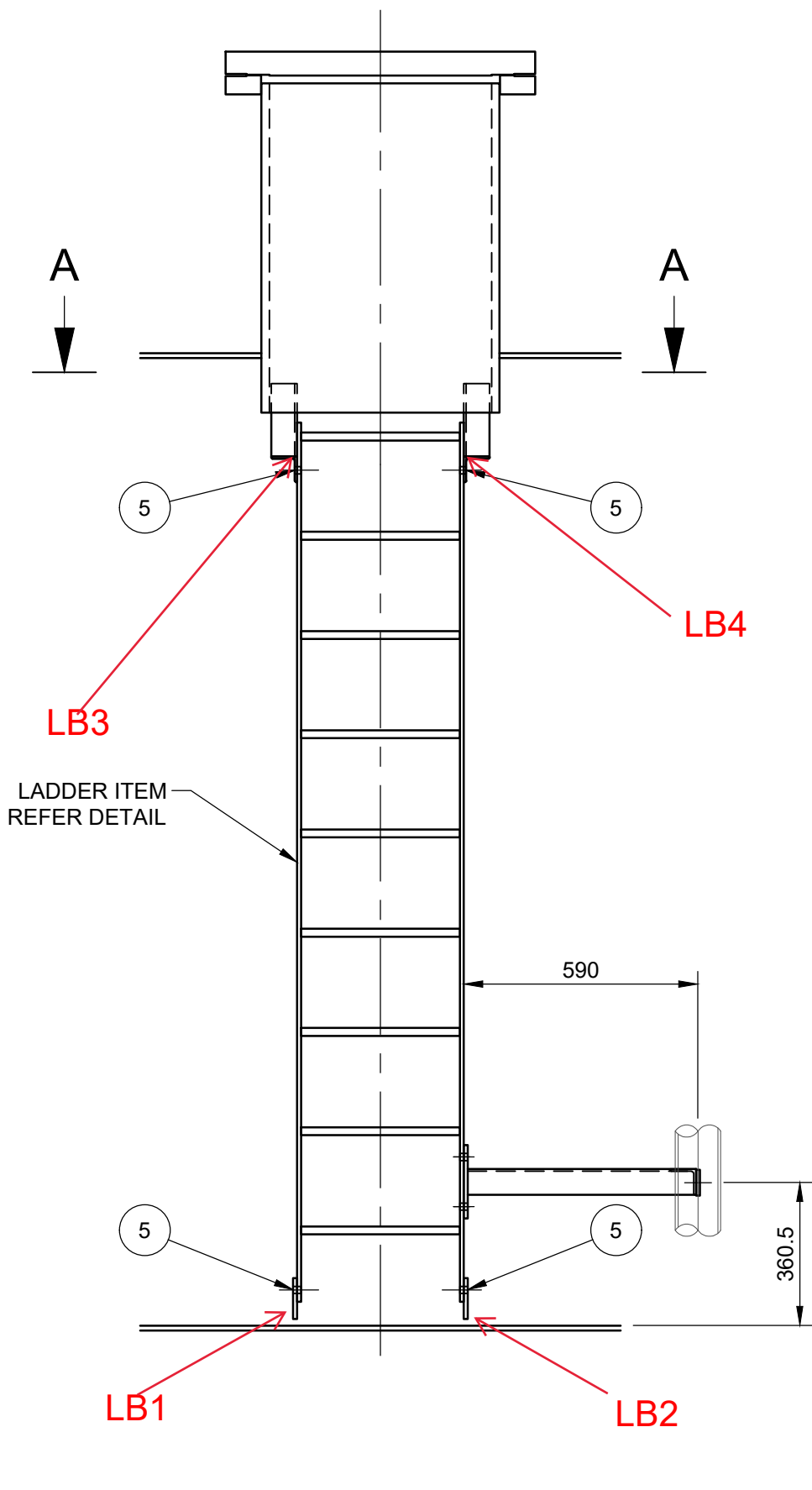
DETAIL 1
SCALE 1:5



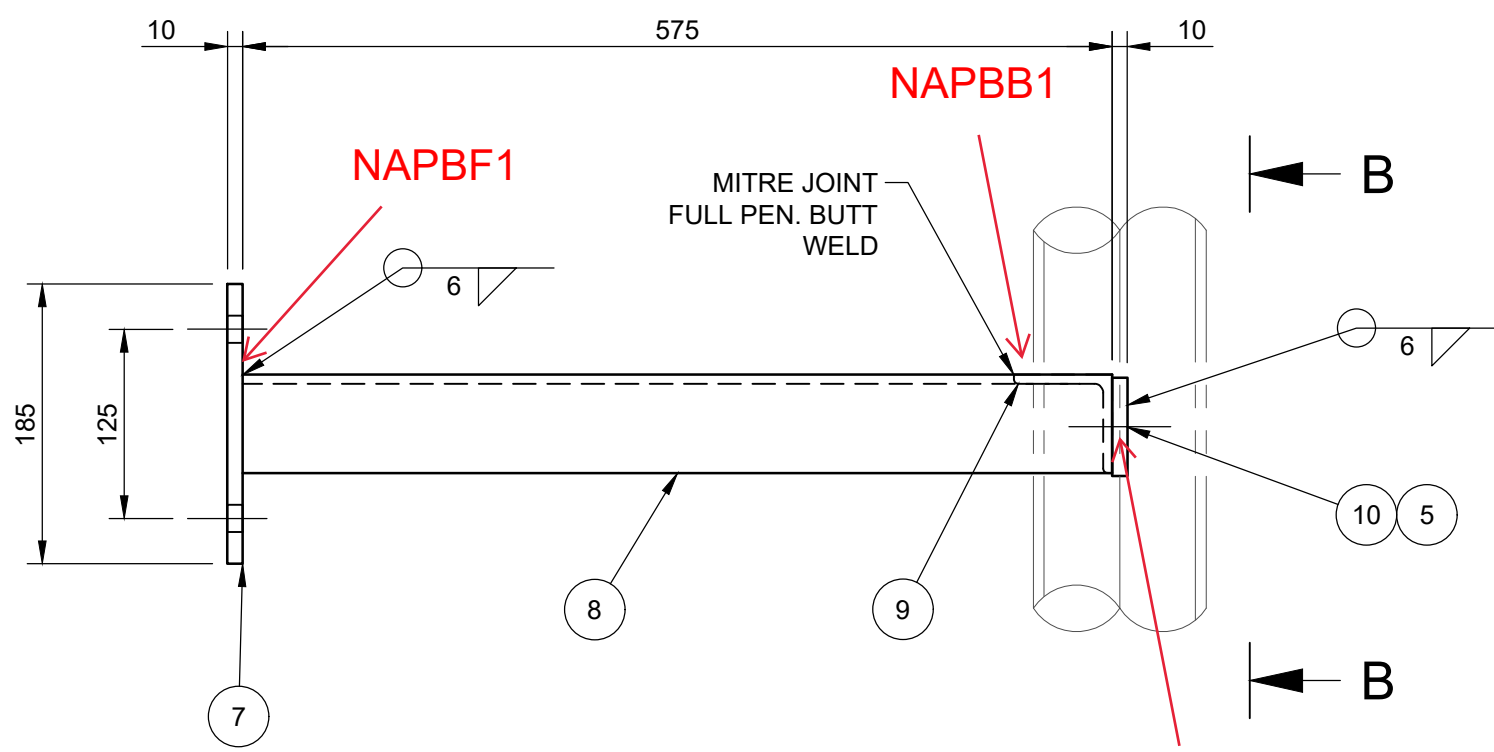
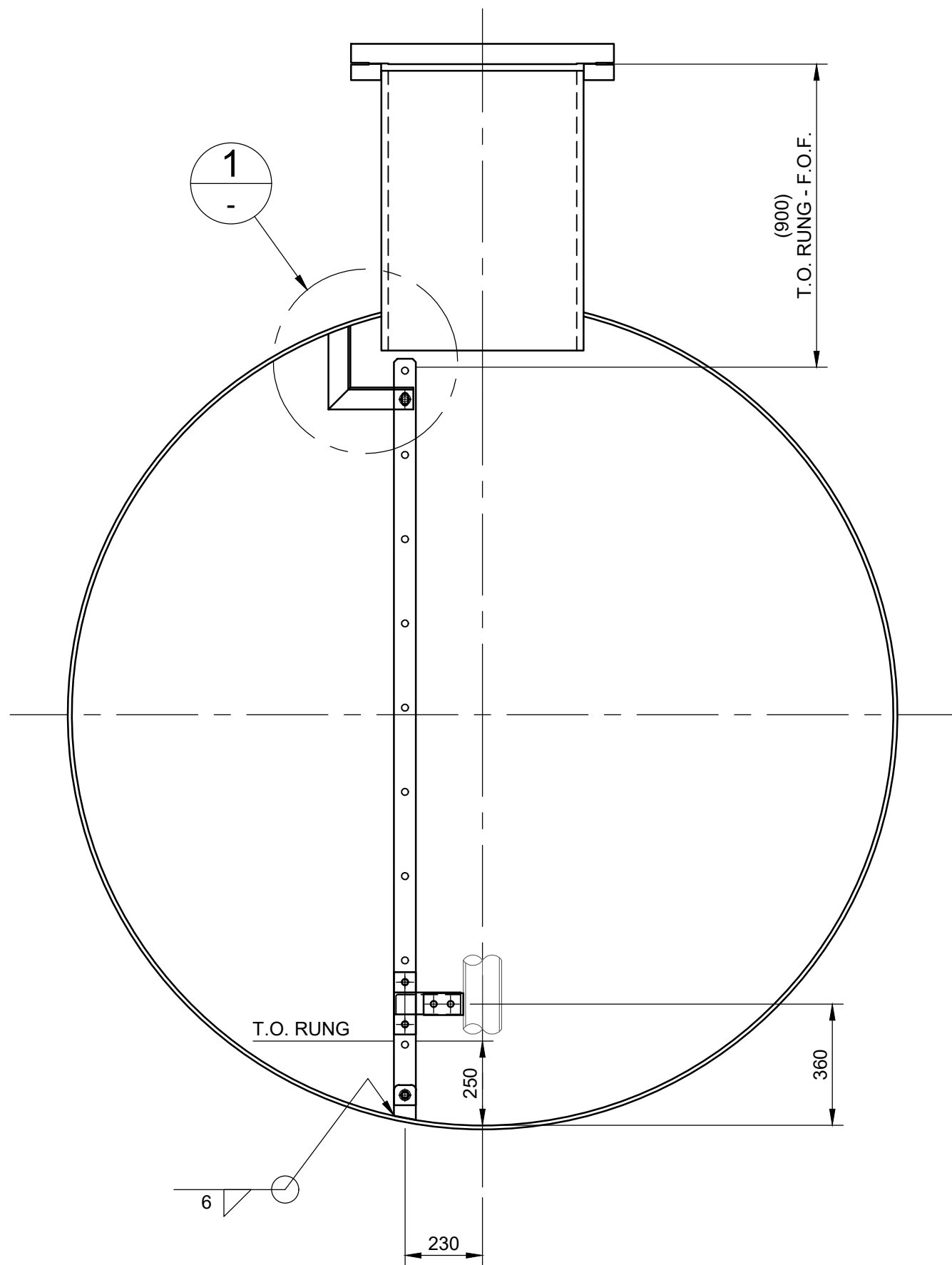
CLEAT
SCALE 1:2



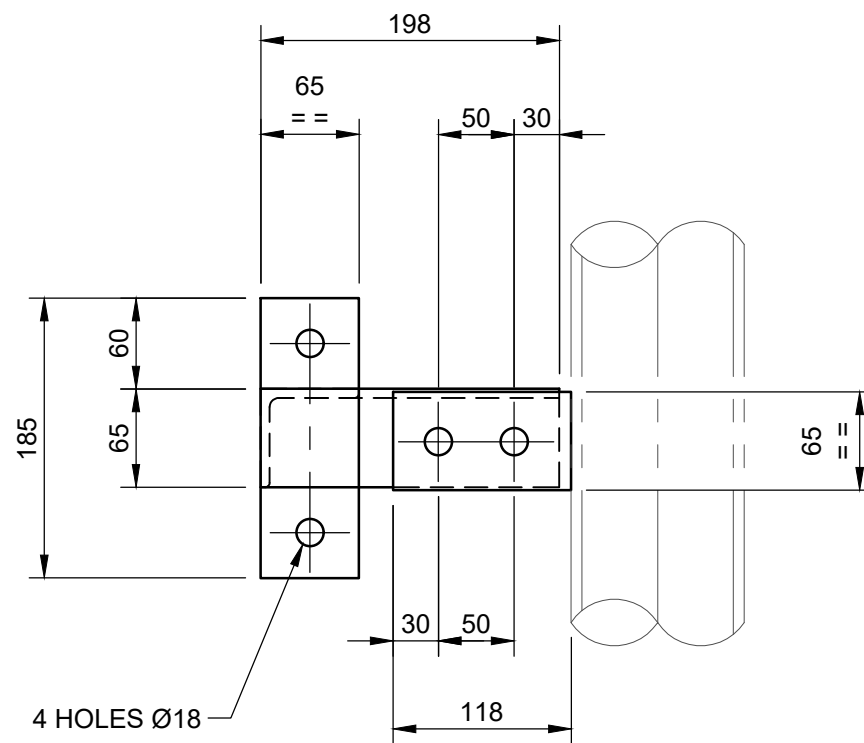
LADDER
SCALE 1:10



LADDER ASSEMBLY
SCALE 1:16



NOZZLE A PIPE BRACE
SCALE 1:5



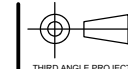
VIEW B
SCALE 1:5

10	CLEAT	1	65 x 10 FL, 118 LG	AS3679.1-300	
9	BRACE	1	65 x 6 EA, 198 LG	AS3679.1-300	
8	BRACE	1	65 x 6 EA, 575 LG	AS3679.1-300	
7	BOLT PL.	1	65 x 10 FL, 185 LG	AS3679.1-300	
6	CLEAT	2	65 x 10 FL, 103 LG	AS3679.1-300	
5	BOLT / NUT	8	M16 x 45 LG Gr 4.6 BOLT C/W WASHER & NUT	AS1111 / AS1112	
4	BRACKET	2	65 x 6 EA, 248 LG	AS3679.1-300	
3	BRACKET	2	65 x 6 EA, 250 LG	AS3679.1-300	
2	RUNG	9	Ø20 RD BAR, 400 LG	AS3679.1-300	
1	STILE	2	65 x 10 FL BAR, 2258 LG	AS3679.1-300	

ITEM	DESCRIPTION	QTY	DIMENSIONS	MATERIAL	COMMENTS
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L & A PRESSURE WELDING PTY LTD
77A CARRINGTON STREET REVESBY NSW 2212 AUSTRALIA
ACN 002 241 590

LADDER DETAILS
SUPAGAS
LPG UNDERGROUND VESSEL
T-001

A1 |  CAD DRAWING - DO NOT ALTER MANUALLY
DIMENSIONS SHOWN IN MILLIMETERS
DO NOT SCALE

SCALE: 1:40 UNO | DRN: T. O'DEMPSEY | RPEQ: | LAP DRG No: LAP-4464-05 | REV: A

A	ISSUED FOR COMMENT	TOD			15/06/2023
REV	DETAILS	DRN	CHK	APP	DATE

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NOTES:

1. ALL LETTERING SHALL BE PERMANENT E.G. ENGRAVED & BLACK-INKED OR EMBOSSED (OR EQUIVALENT), MINIMUM 3mm HIGH

2. FOR NAMEPLATE MOUNTING BRACKET REFER TO DRG LAP-4464-03

A

B

C

D

E

F

G

H

175

165

Ø4.5

L & A Pressure Welding

EQUIPMENT #

T-001

DESCRIPTION

LPG U/GROUND VESSEL

DESIGNED TO

AS1210-2010 CLASS 1H

DESIGN PRESSURE

1550 kPa.g

DESIGN TEMPERATURE

0°C to 50°C

CONTENTS

L.P.G.

CORROSION ALLOW.

1.5 mm EXTERNAL

VOLUME - GROSS

105 800 L

VOLUME - PRODUCT 88%

93 104 L

AS4343 HAZARD LEVEL

B

HYDRO. TEST PRESSURE

2220 kPa.g

HYDRO. TEST DATE

MANUFAC. SERIAL No.

FINAL INSPECTION BY

FINAL INSPECTION DATE

DESIGN REGIST. No.

NO WELDING OR HEATING OF THIS VESSEL WITHOUT APPROVAL FROM AUTHORITIES.

175

185

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ISSUED FOR COMMENT

TOD

15/06/2023

REV

DETAILS

DRN

CHK

APP

DATE

SCALE

1:40 UNO

CAD DRAWING - DO NOT ALTER MANUALLY

DIMENSIONS SHOWN IN MILLIMETERS

DO NOT SCALE

DRN

T. O'DEMPSEY

RPEQ

LAP DRG No:

LAP-4464-06

REV

A

1

NAMEPLATE

1

1.6mm SHT, 175 x 185

ASTM A240-316

ITEM

DESCRIPTION

QTY

DIMENSIONS

MATERIAL

COMMENTS

L & A

L & A PRESSURE WELDING PTY LTD

77A CARRINGTON STREET REVESBY NSW 2212 AUSTRALIA

ACN 002 241 590

NAMEPLATE DETAILS

SUPAGAS

LPG UNDERGROUND VESSEL

T-001

A1

FEC JOB No.

230407

CAD FILE No:

LAP-4464

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