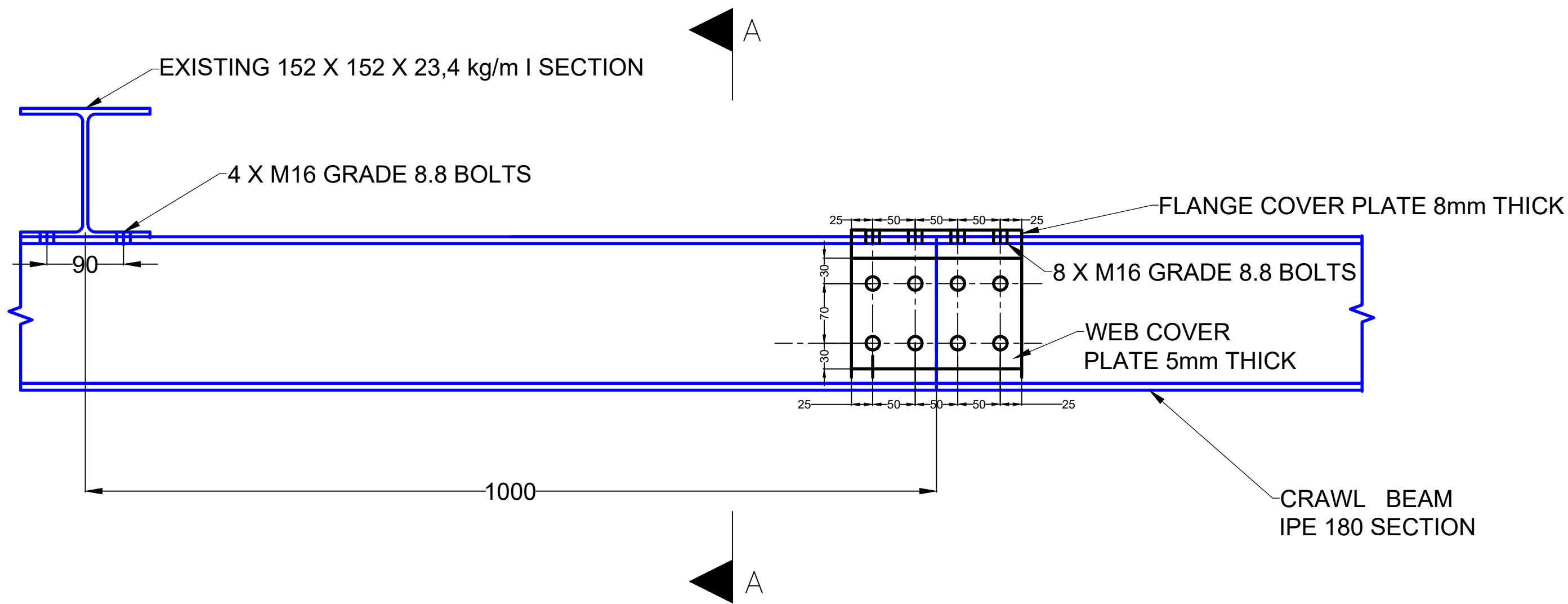
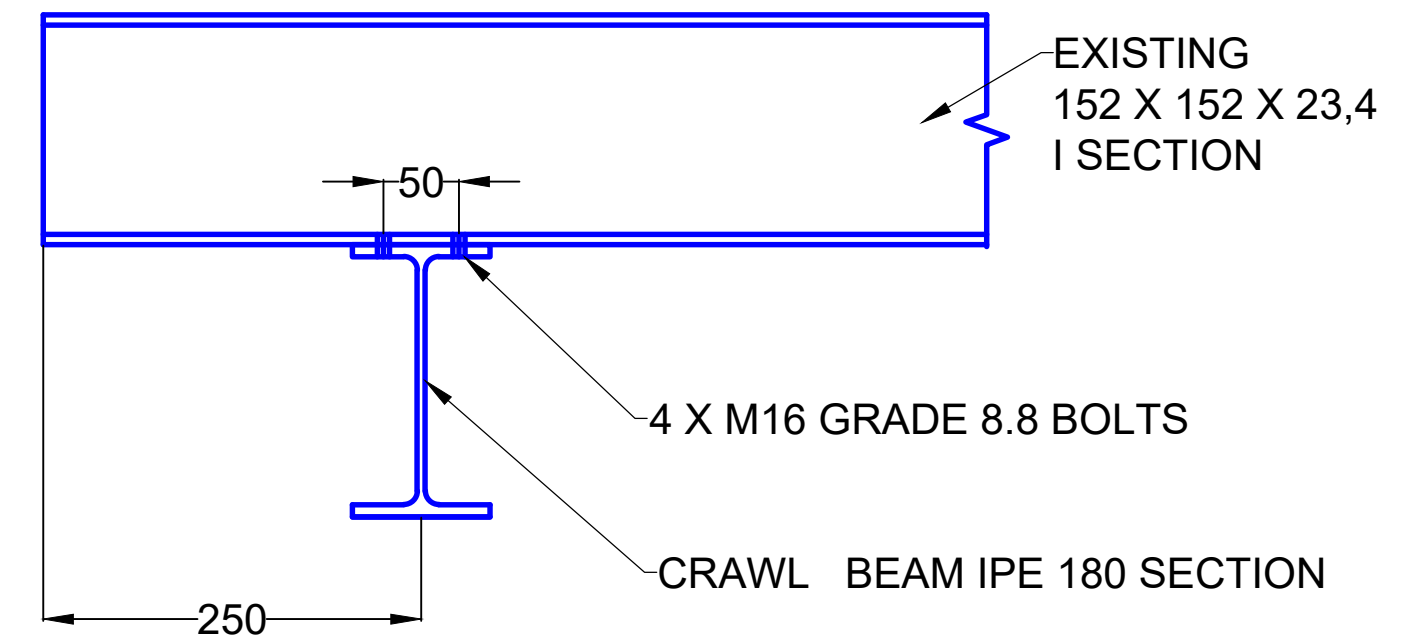
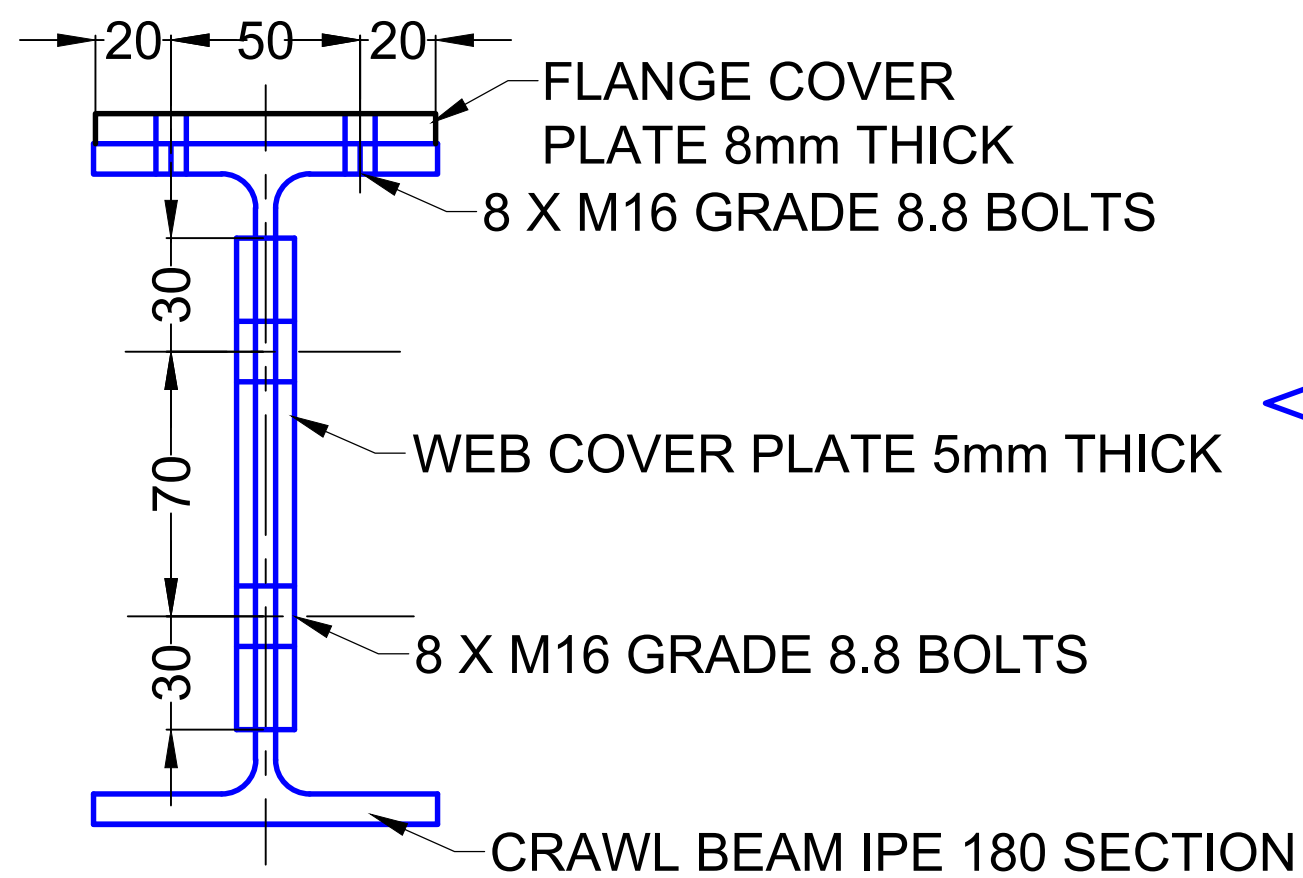




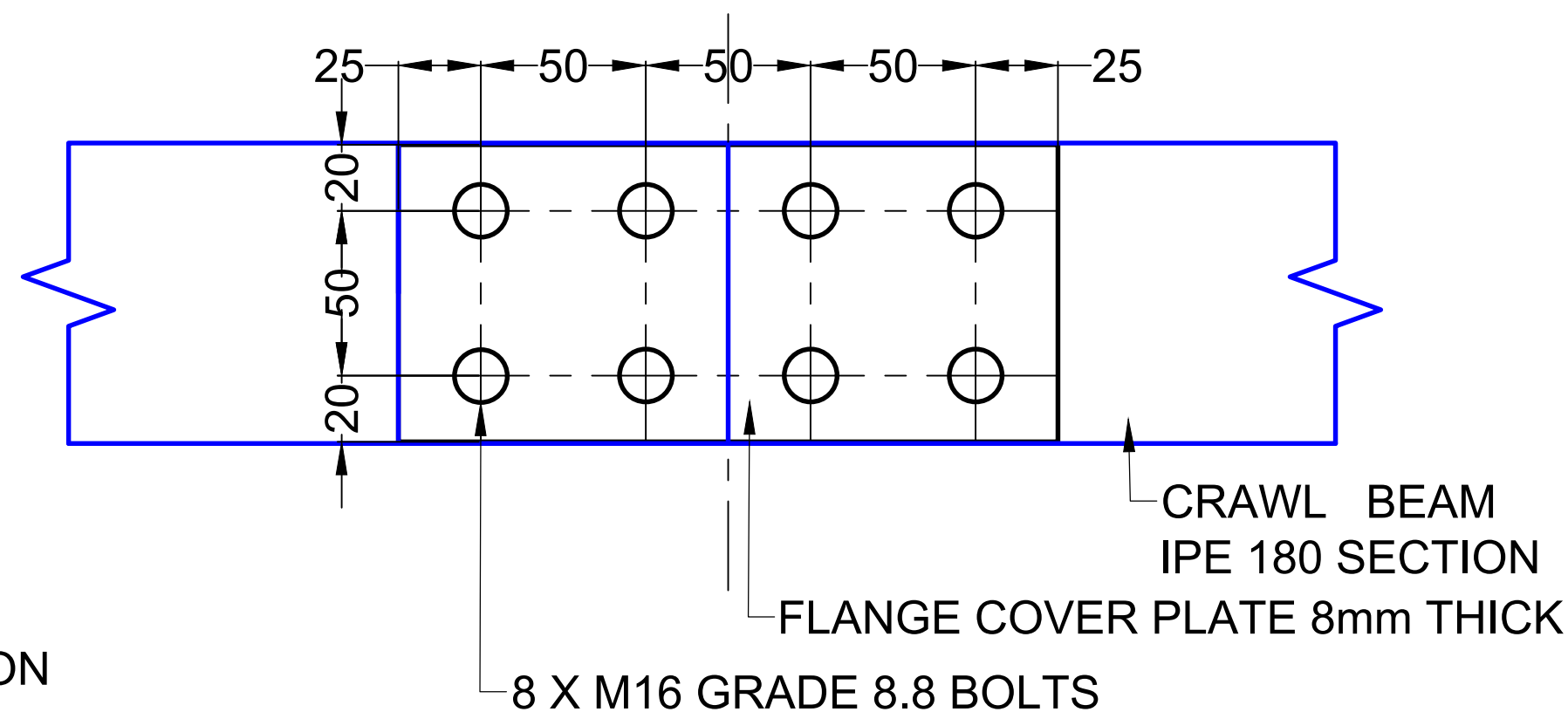
MONORAIL BEAM-BEAM CONNECTION
SCALE 1:5



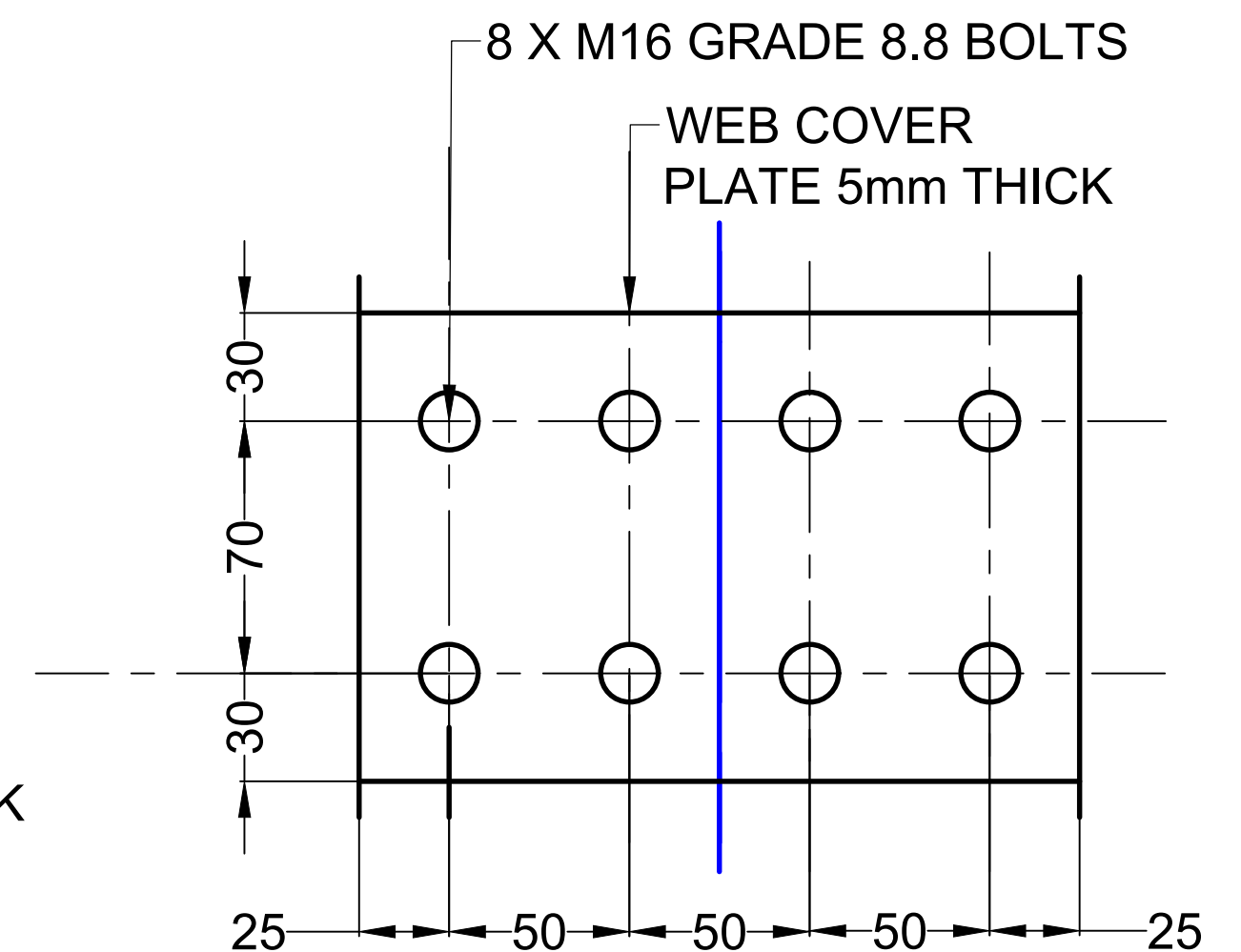
VIEW A-A CONNECTION DETAIL
SCALE 1:5



DETAIL 1: SPLICE DETAIL
SCALE 1:2



DETAIL 2: SPLICE DETAILS
SCALE 1:2



DETAIL 3: SPLICE DETAILS
SCALE 1:2

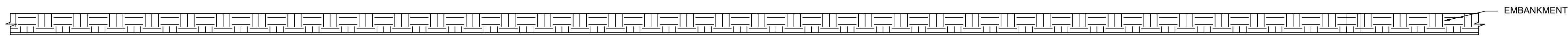
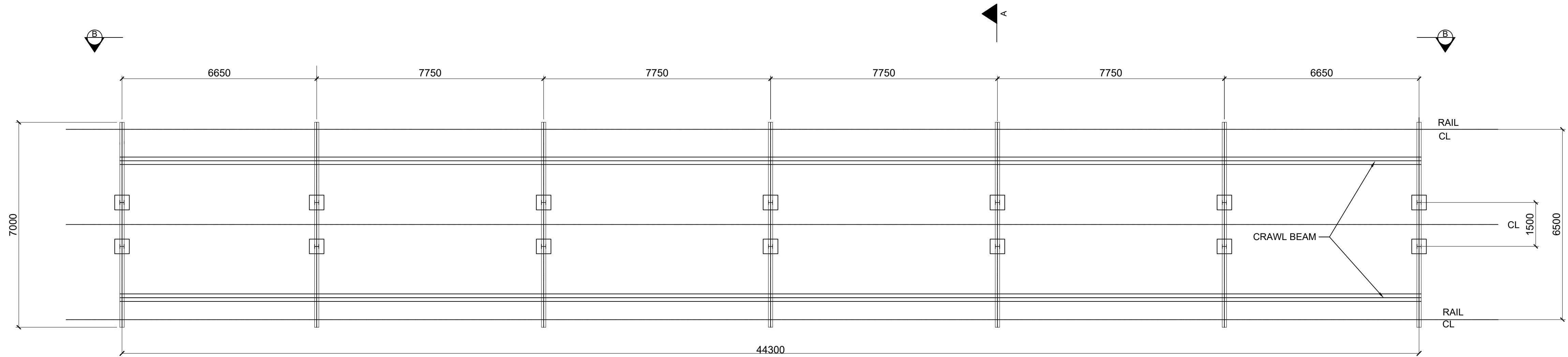
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Mr. SN Cebekhulu	02/03/2023	2022301406		

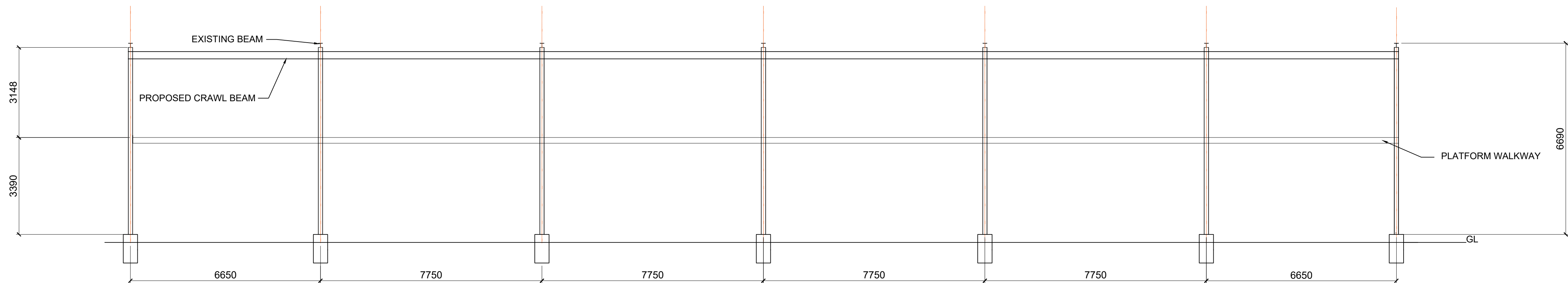


TARLTON
FALL PROTECTION CONNECTION DETAILS ROAD LOADING

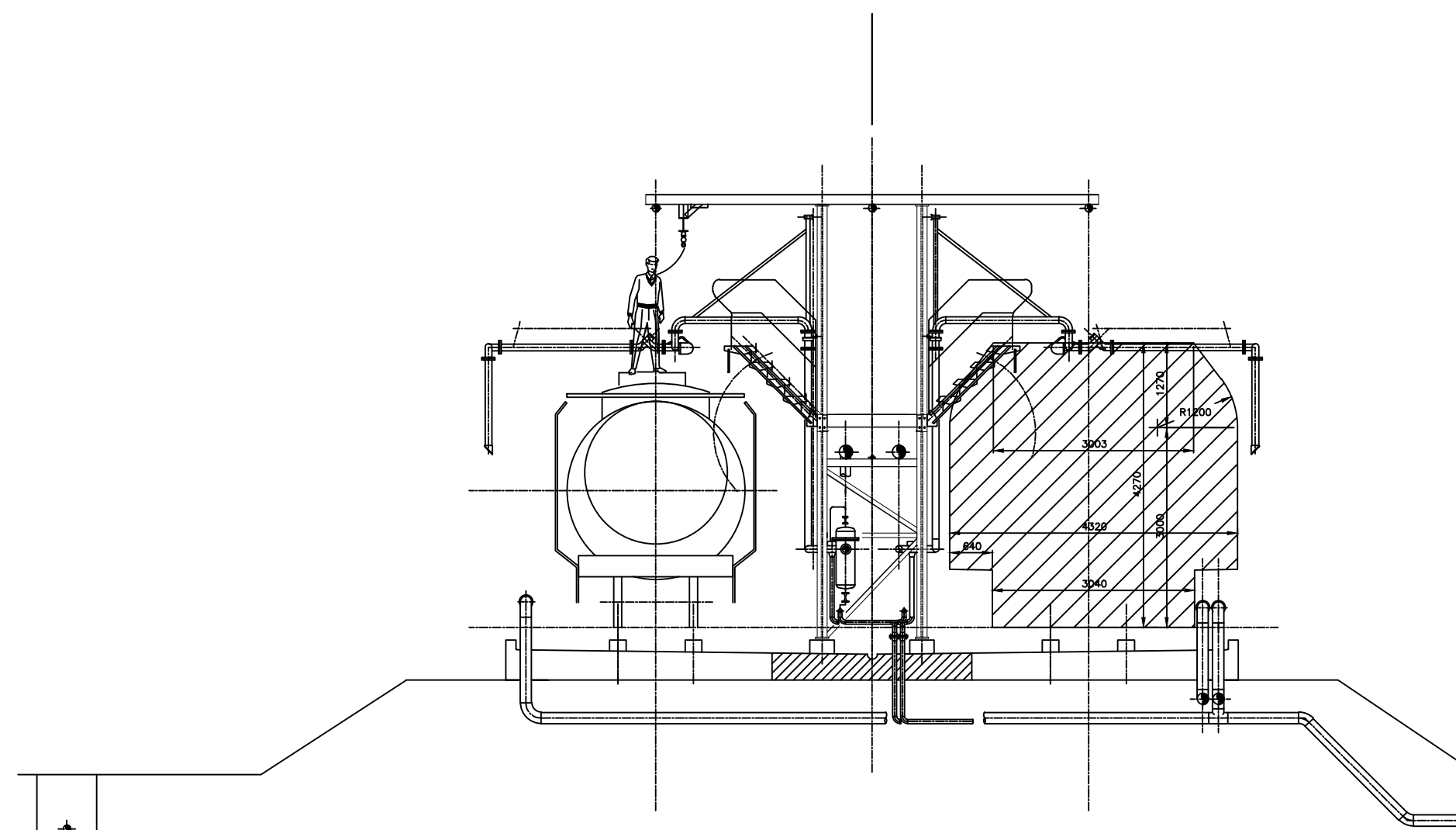
PROJECT NAME			
TRANSNET PIPELINES			
DRAWN	K.N.	REF.	REF
TRACED	CAD	DATE	31-08-2022
CHECKED		APPROVED	
SCALE	1:1		
DRAWING No.	PL 122548 SHEET 2		
REV	A		



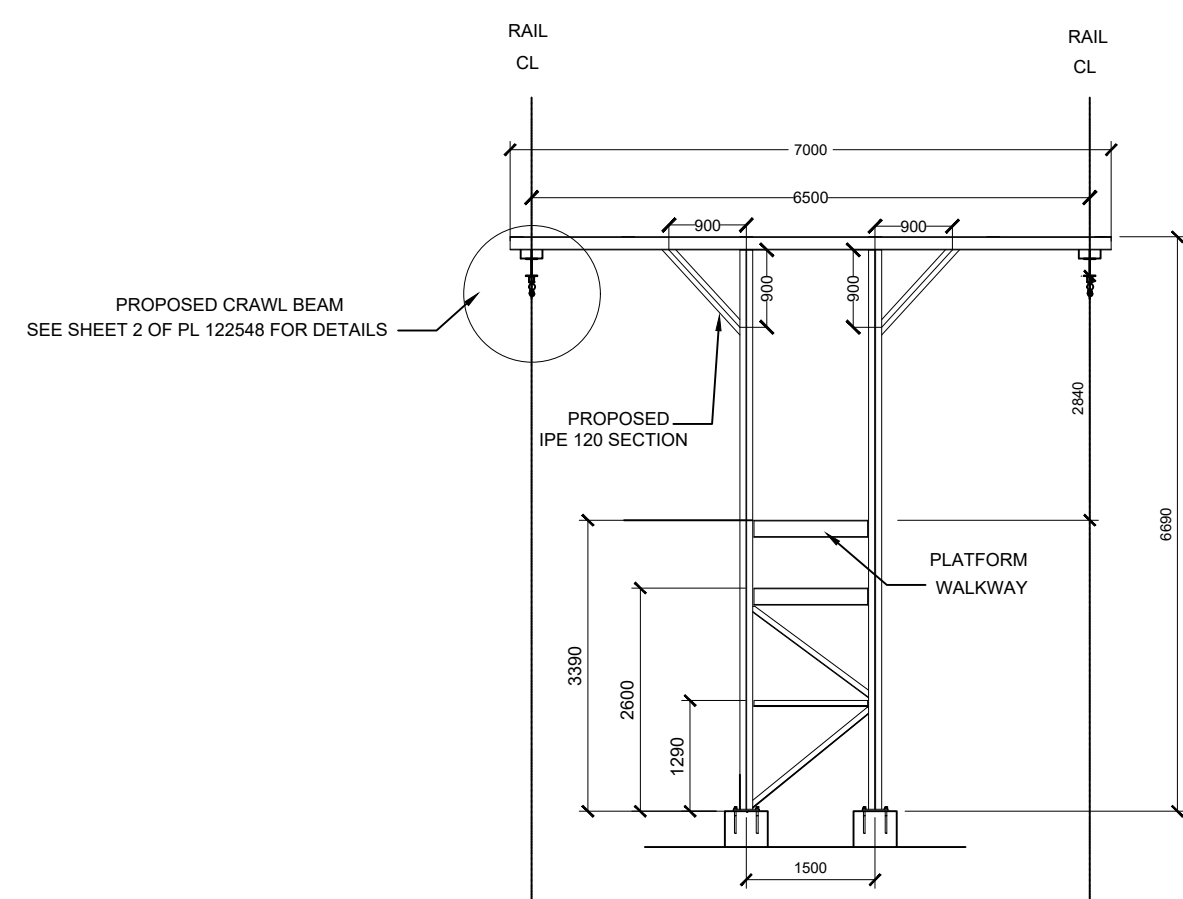
PLAN VIEW:RAIL LOADING STRUCTURE



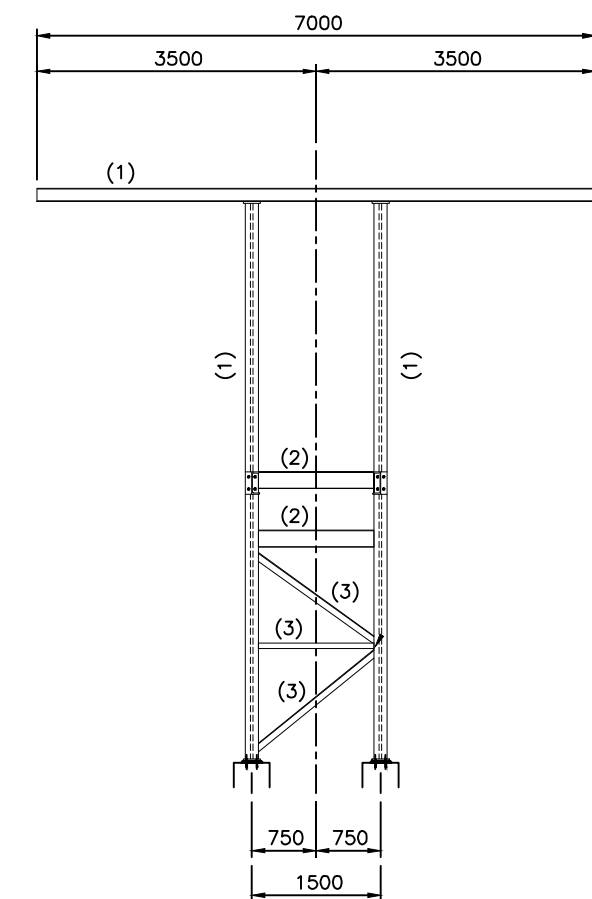
VIEW B-B:RAIL LOADING STRUCTURE



RAIL LOADING STRUCTURE WITH RAIL TANKERS



SECTION A-A:RAIL LOADING STRUCTURE



RAIL LOADING STRUCTURE STEEL SECTION

ITEM	DESCRIPTION
1	152 X 152 X 23,4 kg/m UC
2	200 x 100 IPE
3	70 X 70 X 6 L
4	120 x 55 PFC
5	50 X 50 X 5 L
6	260 x 90 PFC
7	140 x 55 IPE
8	180 x 70 PFC
9	160 x 65 PFC
10	90 X 90 X 8 L
11	160 x 82 IPE
12	100 x 100 x 8 L

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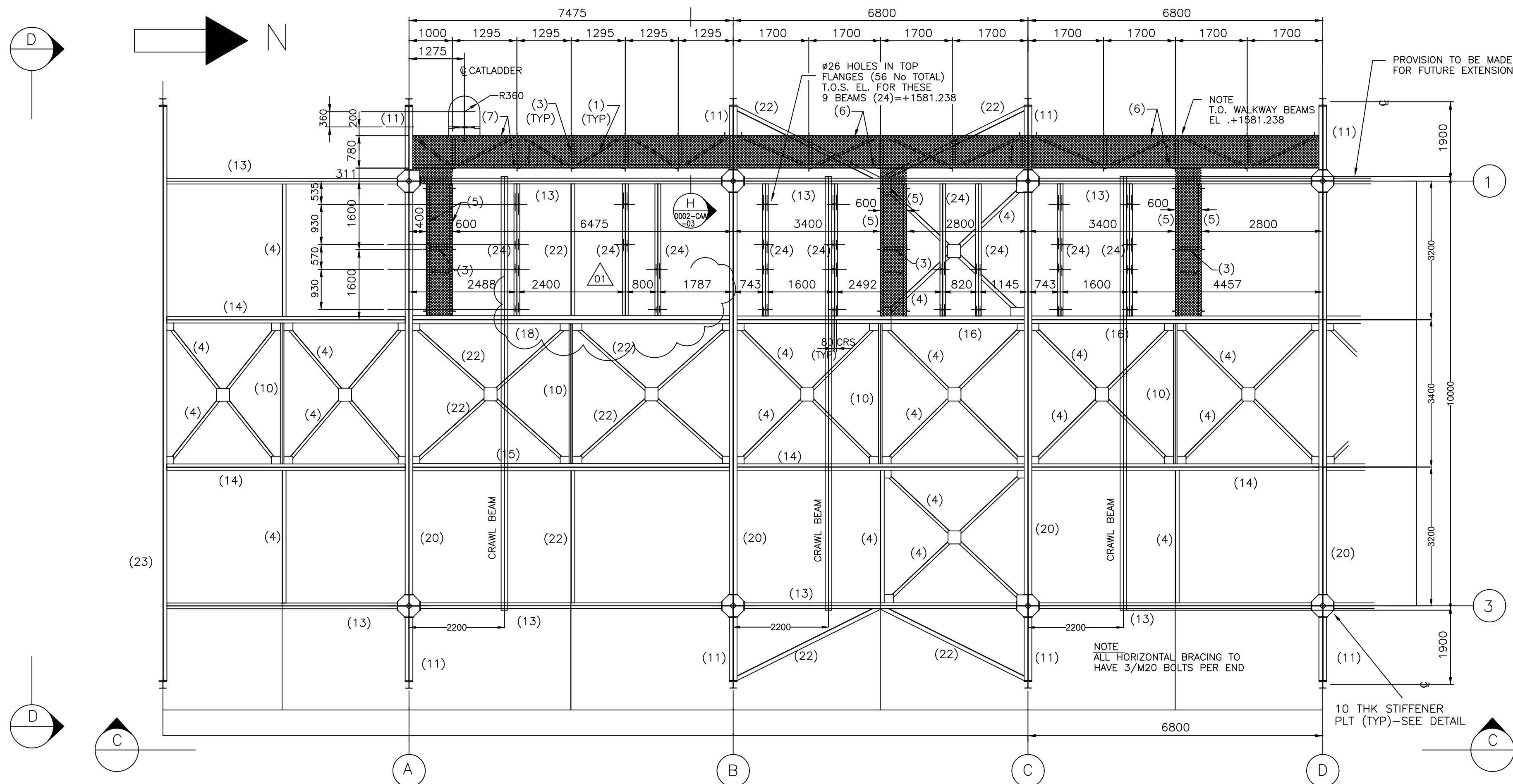
CHECKED BY	DATE	REG NO:	SIGNATURE
Mr. MS Mulaudzi	02/03/2023	201730239	
Mr. SN Cebekhulu	02/03/2023	2022301406	

TRANSNET
pipelines
TARLTON
RAIL LOADING FALL PROTECTION SYSTEM PLAN

NOTES:

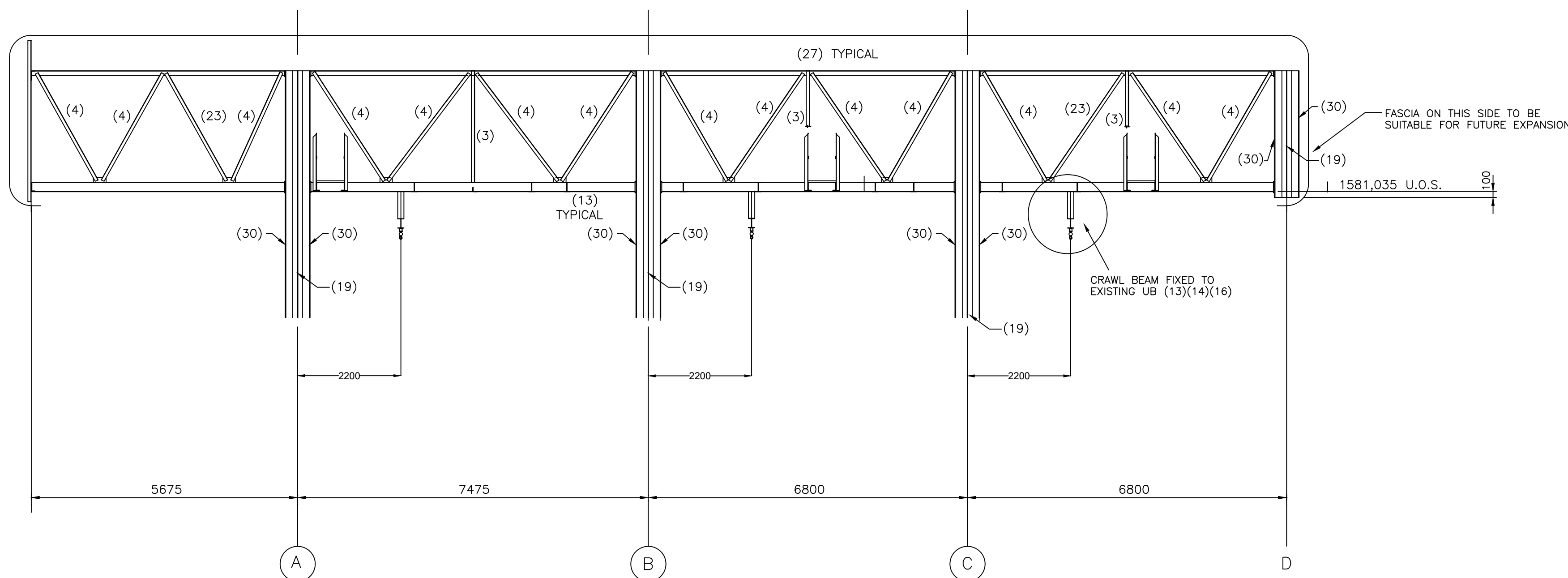
- 1.SHOP DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 10162-1:2011
- 2.CRAWL BEAM AND SUPPORTS TO BE GRADE S355JR.
- 3.ALL BOLTS TO BE GRADE 8.8 AND M16 MINIMUM SIZE
- 4.JOINTS: WELD & BOLTS AS PER DRAWING. WELDING SHALL BE DONE BY QUALIFIED WELDERS TO THE SATISFACTION OF ENGINEER.WELD SIZE TO BE MINIMUM 6mm CONTINOUS FILLET WELD. ALL BUTT WELDS TO DEVELOP THE FULL STRENGTH OF SECTION TO BE JOINED.ALL WELDS SHALL HAVE A MINIMUM ELECTRODE CLASSIFICATION OF E70XX
- 5.CONTRACTOR TO COMPLY TO SANS 10400.
- 6.SHOP DRAWINGS TO BE APPROVED BY TRANSNET ENGINEER PRIOR TO FABRICATION
- 7.ALL STEEL WORK TO BE IN ACCORDANCE WITH SANS 2001-CS1:2017,SANS 1921-3:2004 AND PROJECT SPECIFICATION
- 8.SHOP DRAWINGS TO BE ISSUED TO TRANSNET ENGINEER FOR APPROVAL
- 9.ENGINEER TO SIGN OFF CONSTRUCTION ONCE COMPLETE
- 10.SYSTEM TO COMPLY WITH SANS 50354, 50355, 50358, 50361, 50362 AND 50363
- 11.ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR FABRICATION

REVISIONS			
PROJECT NAME			
DRAWN	KTN	REF.	
TRACED	CAD	DATE	31-08-2022
CHECKED		APPROVED	
SCALE	1:1		
DRAWING No.	PL 122548 SHEET 1		
REV	B		



VIEW ON ROAD CANOPY STEELWORK AT WALKWAY LEVEL (BOTTOM BOOM)
U.O.S. EL +1581.035 (U.O.N.)

N.B. REQUIRED NUMBER OF FAS ON ROAD LOADING SYSTEM =4

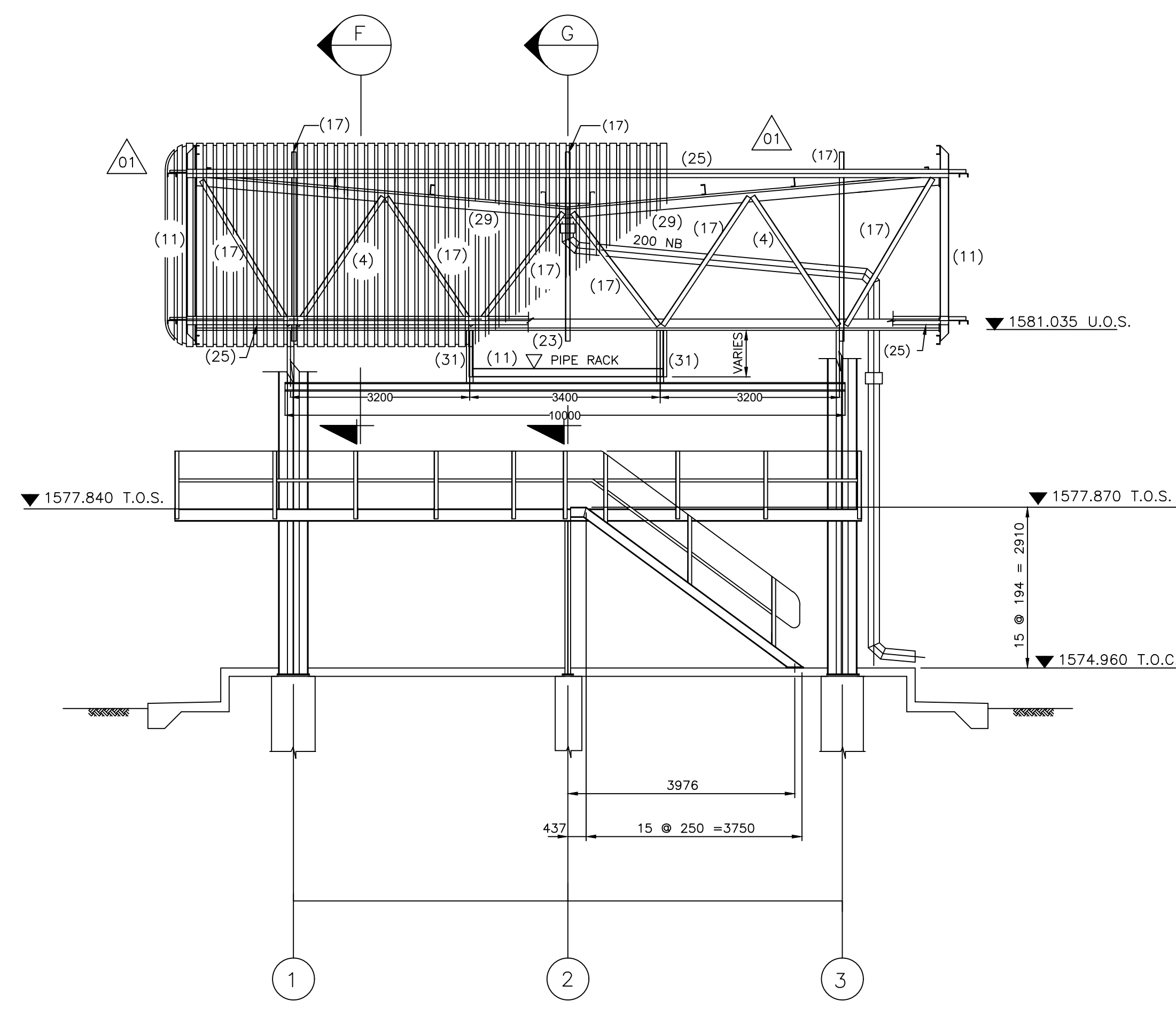


ELEVATION ON COLUMN ROW 1
(LOOKING WEST)

STEELWORK LEGEND	
ITEM	DESCRIPTION
1	50x50x6 RSA
2	60x60x6 RSA
3	70x70x6 RSA
4	90x90x6 RSA
5	180x70 PFC
6	200x75 PFC
7	220x80 PFC
8	260x90 PFC
9	140 IPE
10	160 IPE
11	152x152x23 UC
12	254x254x73 UC
13	203x133x25 UB
14	252x146x31 UB
15	304x165x41 UB
16	352x171x45 UB
17	80x80x6L
18	452x190x67 UB
19	602x228x101 UB
20	226x191 T EX:-452x191x67 UB
21	160x65 PFC
22	100x100x8 RSA
23	90x90x8 RSA
24	150x75x20x3.0 C.R.L.Z.
25	150x75x20x3.0 C.R.L.Z.
26	18 DIA ROUND
27	102x133 T EX:-203x133x25 UB
28	180x70 PFC
29	120x120x8 RSA
30	264x209 T EX:-528x209x82 UB
31	160x65 PFC

NOTES:

- 1.SHOP DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SANS 10162-1:2011
- 2.CRAWL BEAM AND SUPPORTS TO BE GRADE S355JR.
- 3.ALL BOLTS TO BE GRADE 8.8 AND M16 MINIMUM SIZE
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- 11.ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR FABRICATION



ELEVATION
D

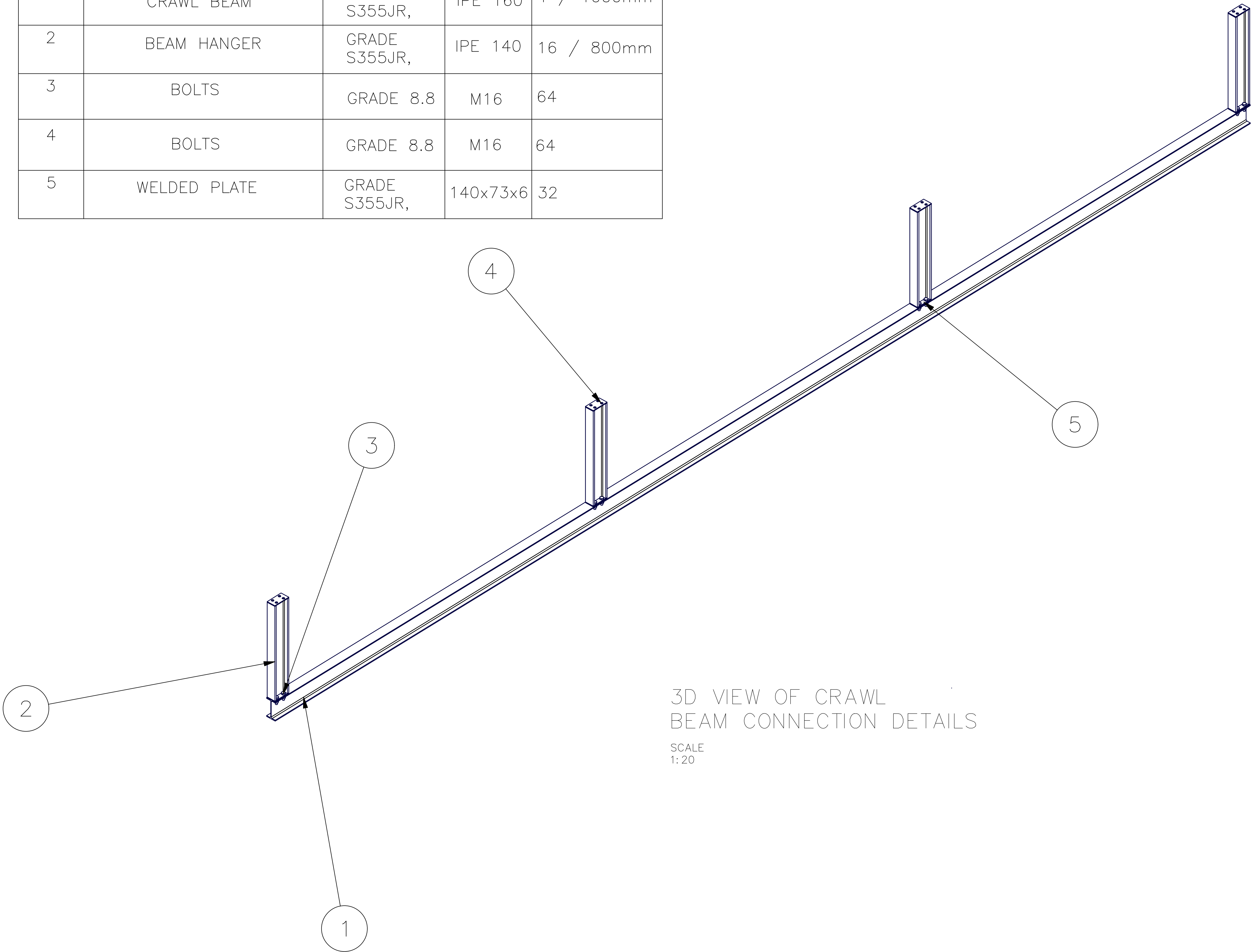
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Mr. MS Mulaudzi	02/03/2023	201730239	
Mr. SN Cebekhulu	02/03/2023	2022301406	

TARLTON
ROAD LOADING FALL PROTECTION SYSTEM PLAN

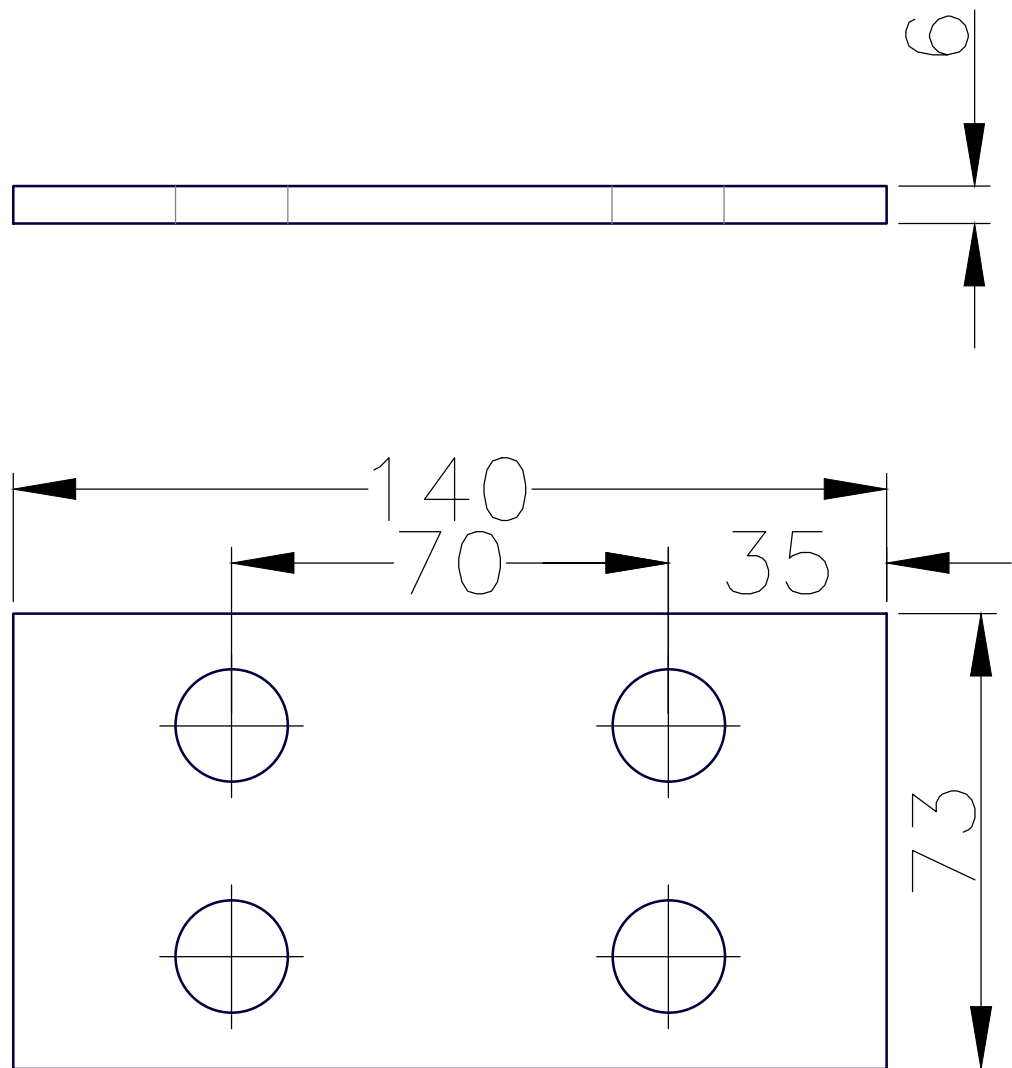
REVISIONS			
PROJECT NAME			
DRAWN	KTN	REF.	
TRACED	CAD	DATE	31-08-2022
CHECKED		APPROVED	
SCALE	1:1		
DRAWING No.	PL 122549 SHEET 1		
REV	B		

FABRICATION/ERECTION MATERIAL SCHEDULE				
ITEM	DESCRIPTION	MATERIAL	SIZE	QTY/LENGTH
1	CRAWL BEAM	GRADE S355JR,	IPE 160	4 / 1000mm
2	BEAM HANGER	GRADE S355JR,	IPE 140	16 / 800mm
3	BOLTS	GRADE 8.8	M16	64
4	BOLTS	GRADE 8.8	M16	64
5	WELDED PLATE	GRADE S355JR,	140x73x6	32



3D VIEW OF CRAWL BEAM CONNECTION DETAILS

SCALE
1: 20



DETAILS OF WELDED PLATE ON BEAM HANGER

SCALE: 1: 50

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REVISIONS			



TARLTON

FALL PROTECTION CONNECTION DETAILS ROAD LOAD

PROJECT NAME			
TRANSNET PIPELINES			
DRAWN	K.N.T	REF.	REF
TRACED	CAD	DATE	31-08-2022
CHECKED		APPROVED	
SCALE	1: 1		
DRAWING No.	PL 122549 SHEET 2		
	REV		