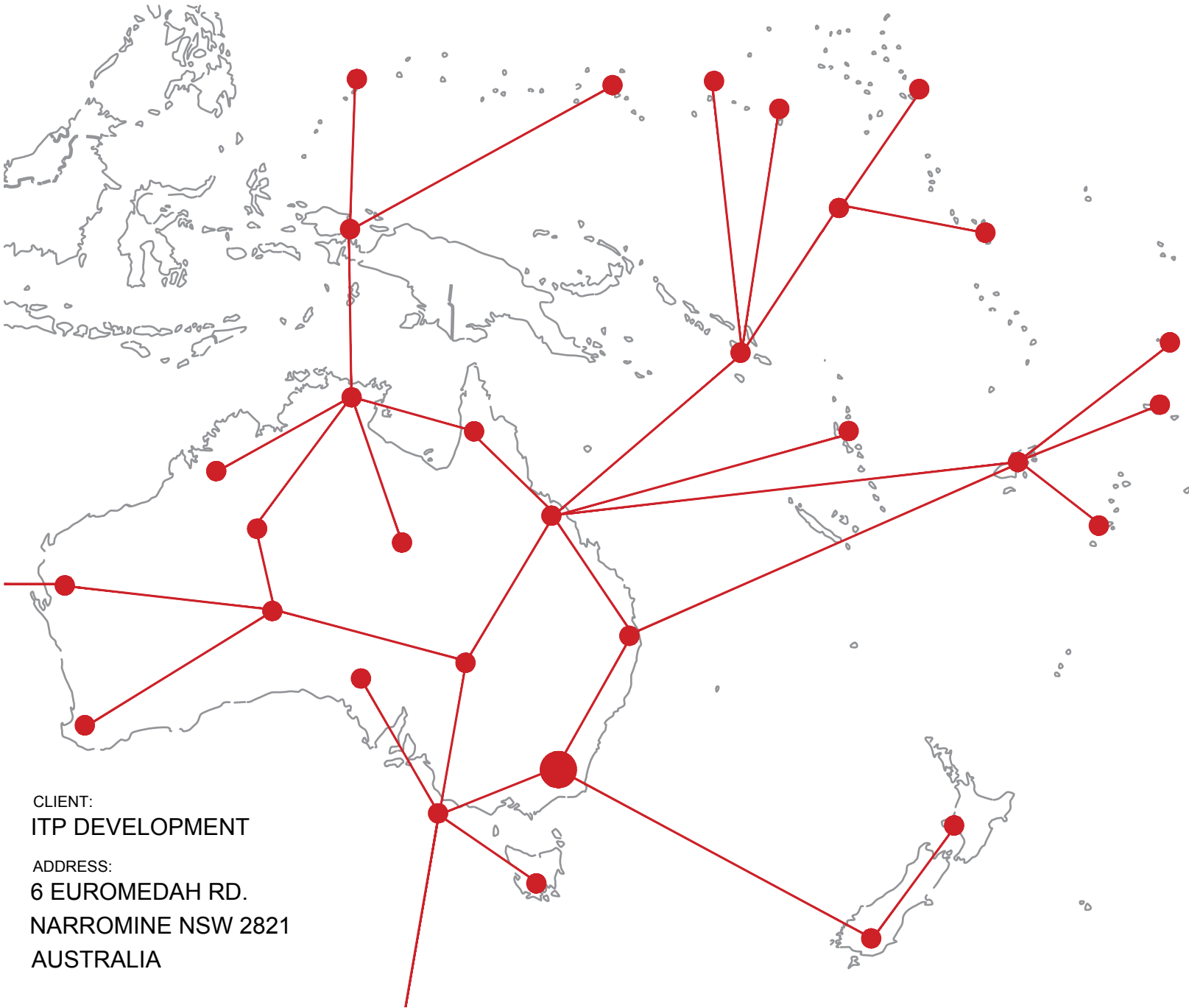


NARRROMINE 4A

NRM4A - DEVELOPMENT APPLICATION

SHEET LIST

SHEET NUMBER	SHEET TITLE
G-010	MAIN TITLE SHEET
G-040	LOCATION PLAN
G-210	GENERAL ARRANGEMENT
C-130	SITE ELEVATION
C-430	INVERTER STATION FOOTING DETAIL
C-530	TYPICAL FENCING DETAIL
C-631	ACCESS ROAD DETAIL
E-341	TYPICAL ARRAY DETAIL
E-430	TYPICAL INVERTER STATION DETAIL



CLIENT:
ITP DEVELOPMENT

ADDRESS:
6 EUROMEDAH RD.
NARRROMINE NSW 2821
AUSTRALIA

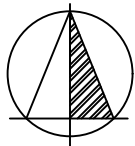


RENEWABLES

Level 1, 19-23 Moore St, Turner ACT 2612
PO Box 6127, O'Connor ACT 2602
info@itpau.com.au

itpau.com.au


abn 42 107 351 673
p +61 (0) 2 6257 3511
f +61 (0) 2 6257 6511
IT Power (Australia)

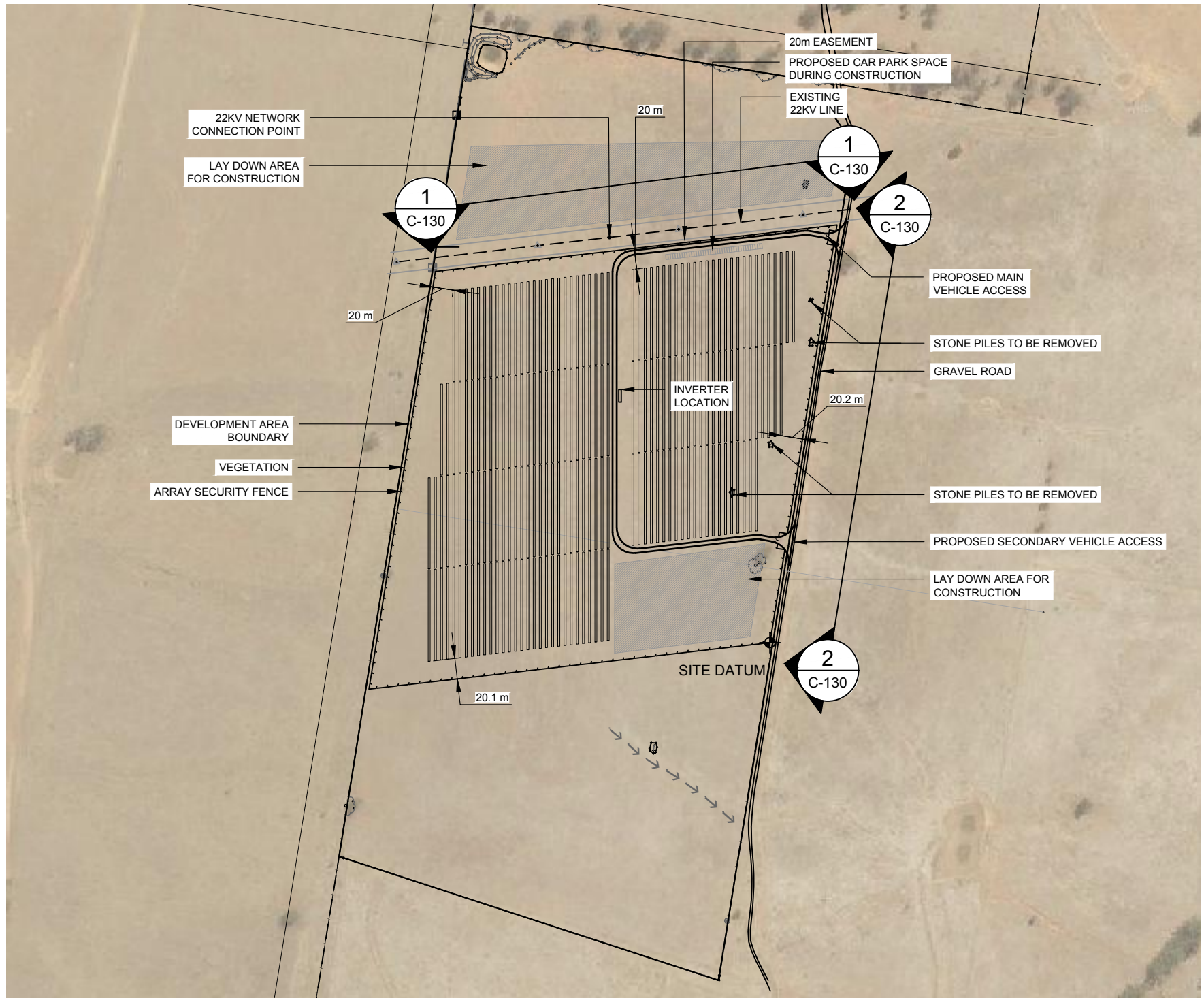
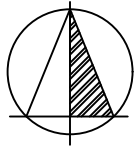


2 LOCATION PLAN
SCALE: 1:10,000

1 LOCATION MAP
SCALE: 1:100,000

DEVELOPMENT APPLICATION

NO.		STAGE	DATE	NOTES	PARTNERS	<div><p>P: +61 2 6257 3511 info@itp.com.au www.itpau.com.au</p><p>PO BOX 6217 O'CONNOR, ACT 2602 AUSTRALIA</p></div>	DRAWN	WJ	DRAWING				LOCATION PLAN			
1		####	####				CHECKED	LF	APPROVED				KB	-----		
2		####	####				DO NOT SCALE. ALL MEASUREMENTS IN MM UNLESS OTHERWISE STATED.									
3		####	####				THIS DOCUMENT MAY ONLY BE USED BY CLIENTS OF ITP OR THOSE WHO HAVE RECEIVED EXPRESS PERMISSION FROM ITP. THE USE OF THIS DRAWING SHALL NOT EXTEND BEYOND THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.									
4		####	####				PROJECT							NARROMINE 4A	SCALE	AS NOTED
5		####	####				CLIENT ADDRESS							ITP DEVELOPMENT 6 EUROMEDAH RD. NARROMINE NSW 2821, AUSTRALIA	SHEET SIZE	A3
6		####	####				DRAWING NO.							NRM4A-G-040	ORIG. DATE	21/1/19
												REV. DATE	13/6/19			
												REV NO.	01.1			



SITE INFORMATION	
LOT / DP	46/752581 and 41/752581
ADDRESS	6 EUROMEDAH RD, NARROMINE NSW 2821
LGA	NARROMINE SHIRE
LAT / LONG	-32.22612, 148.30002
ELEVATION	236 m
LOT AREA	32.3 ha
FENCED AREA	15.6 ha
DNSP	ESSENTIAL ENERGY

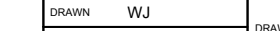
PROJECT INFORMATION	
DC CAPACITY	6.048 MW
AC CAPACITY	5.0 MW
DC/AC RATIO	1.2
INVERTERS	2 x 2.5 MW AC
MOUNTING	NEXTRACKER SINGLE AXIS TRACKER (1V)
MODULE CAPACITY	385 W - 72 CELL MONO (1500 V)
STRING CONFIGURATION	28 MODULES PER STRING
TRACKER	3-STRING: 88 m. 2-STRING: 60m
NO. TRACKERS	187x 3-STRING TRACKERS
TRACKER SPACING (N-S)	1 m
ARRAY PITCH	6 m
SPECIFIC YIELD	2133 kWh/kWp/year
ANNUAL GENERATION	12.98 GWh
CONNECTION VOLTAGE	22 kV
CONNECTION FEEDER	EXISTING ESSENTIAL ENERGY FEEDER NME8B5
CONNECTION SUBSTATION	EXISTING ESSENTIAL ENERGY NARROMINE SUBSTATION
SECURITY FENCE SETBACK	3m FROM DEVELOPMENT AREA BOUNDARY
ARRAY SETBACK	20m FROM SECURITY FENCE
ACCESS ROAD WIDTH	10m

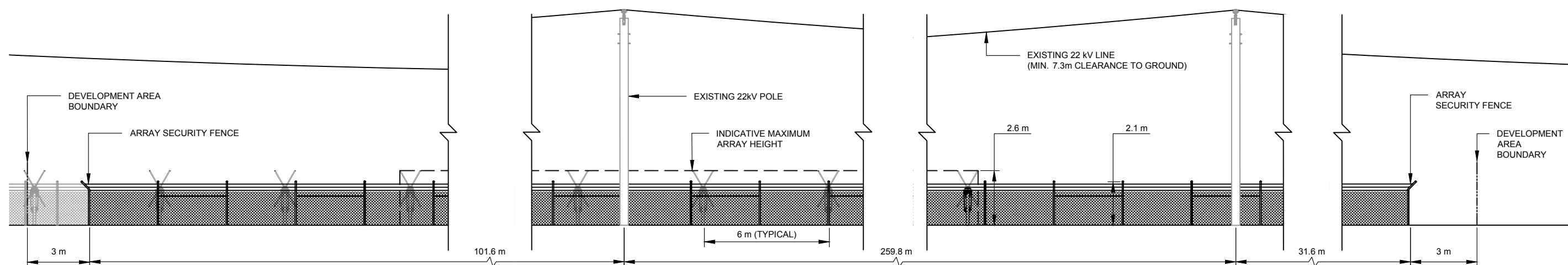
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GENERAL ARRANGEMENT

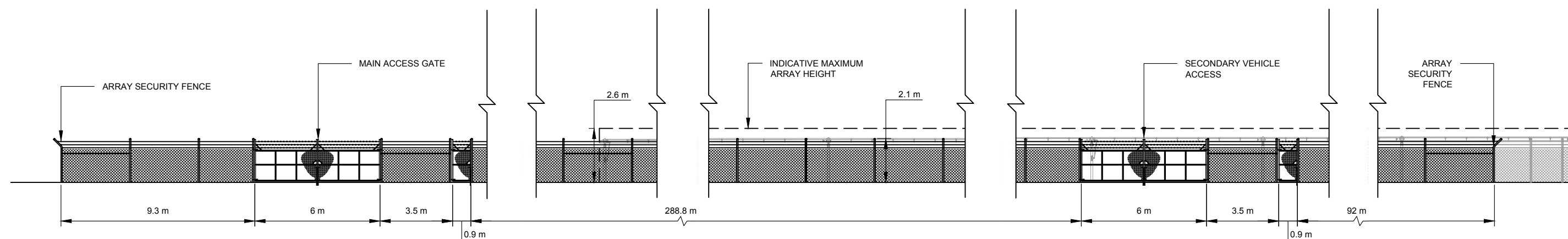
SCALE: 1:5000

DEVELOPMENT APPLICATION

NO.		STAGE	DATE	NOTES	PARTNERS	<div><div></div><div><p>P: +61 2 6257 3511 info@itp.com.au www.itpau.com.au</p><p>PO BOX 6217 O'CONNOR, ACT 2602 AUSTRALIA</p></div></div>	DRAWN	WJ	DRAWING				GENERAL ARRANGEMENT			
1		####	####				CHECKED	LF								
2		####	####				APPROVED	KB								
3		####	####				DO NOT SCALE. ALL MEASUREMENTS IN MM UNLESS OTHERWISE STATED.			PROJECT	NARROMINE 4A			SCALE	AS NOTED	
4		####	####				THIS DOCUMENT MAY ONLY BE USED BY CLIENTS OF ITP OR THOSE WHO HAVE RECEIVED EXPRESS PERMISSION FROM ITP. THE USE OF THIS DRAWING SHALL NOT EXTEND BEYOND THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.							SHEET SIZE	A3	
5		####	####							CLIENT ADDRESS	ITP DEVELOPMENT 6 EUROMEDAH RD. NARROMINE NSW 2821, AUSTRALIA			ORIG. DATE	29/11/18	
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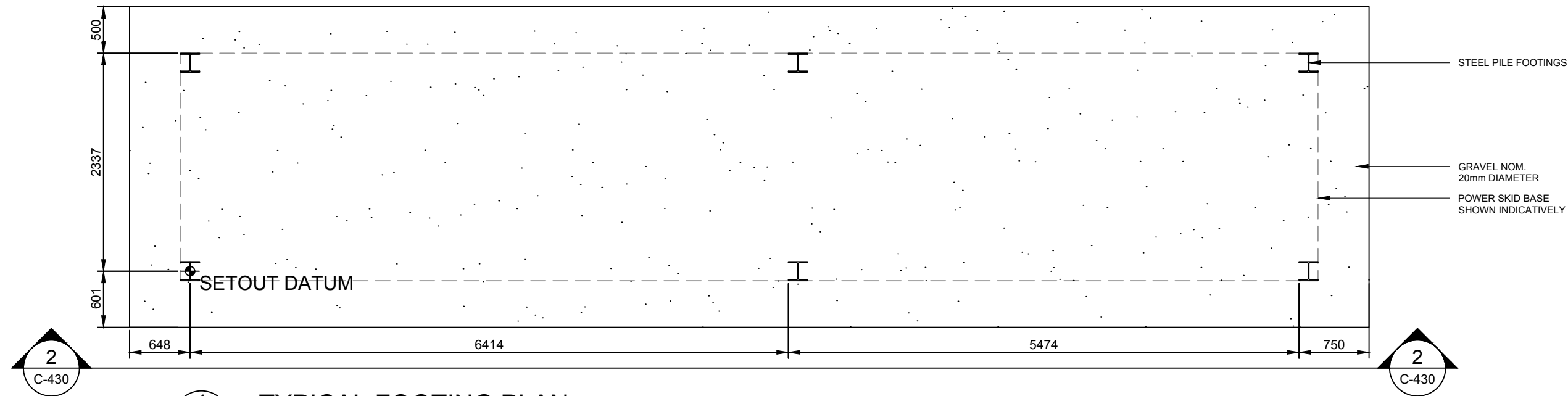
1 SITE ELEVATION (NORTH)
G-210 SCALE: 1:200



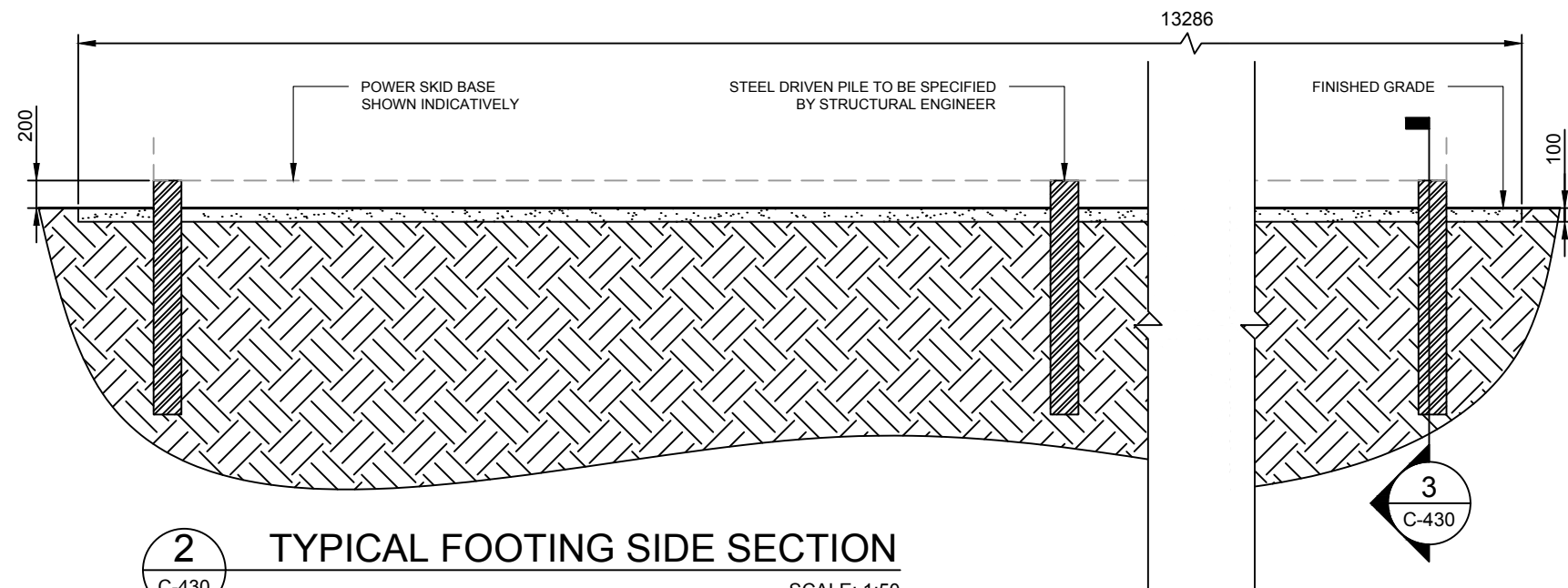
2 SITE ELEVATION (EAST)
G-210 SCALE: 1:200

DEVELOPMENT APPLICATION

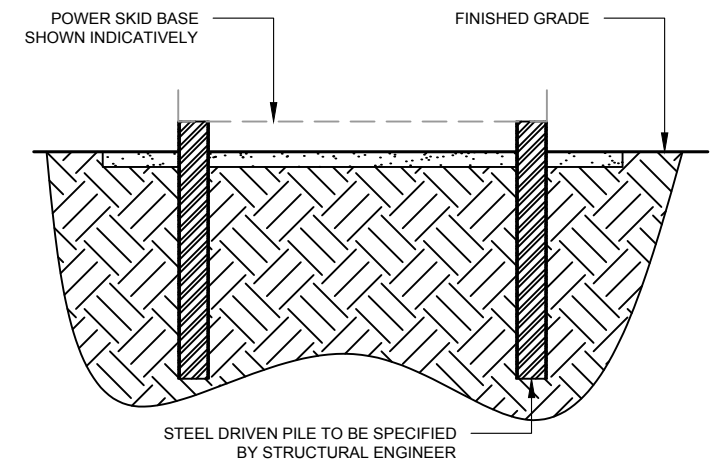
NO.	STAGE	DATE	NOTES	PARTNERS	<div>  <p> P: +61 2 6257 3511 info@itp.com.au www.itpau.com.au </p> <p> PO BOX 6217 O'CONNOR, ACT 2602 AUSTRALIA </p> </div>	DRAWN WJ CHECKED LF APPROVED KB DO NOT SCALE. ALL MEASUREMENTS IN MM UNLESS OTHERWISE STATED. THIS DOCUMENT MAY ONLY BE USED BY CLIENTS OF ITP OR THOSE WHO HAVE RECEIVED EXPRESS PERMISSION FROM ITP. THE USE OF THIS DRAWING SHALL NOT EXTEND BEYOND THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.	DRAWING SITE ELEVATION ---	PROJECT NARROMINE 4A CLIENT ITP DEVELOPMENT ADDRESS 6 EUROMEDAH RD. NARROMINE NSW 2821, AUSTRALIA DRAWING NO. NRM4A-C-130	SCALE AS NOTED SHEET SIZE A3 ORIG. DATE 23/1/19 REV. DATE 13/6/19 REV NO. 01.1
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1 TYPICAL FOOTING PLAN
SCALE: 1:50



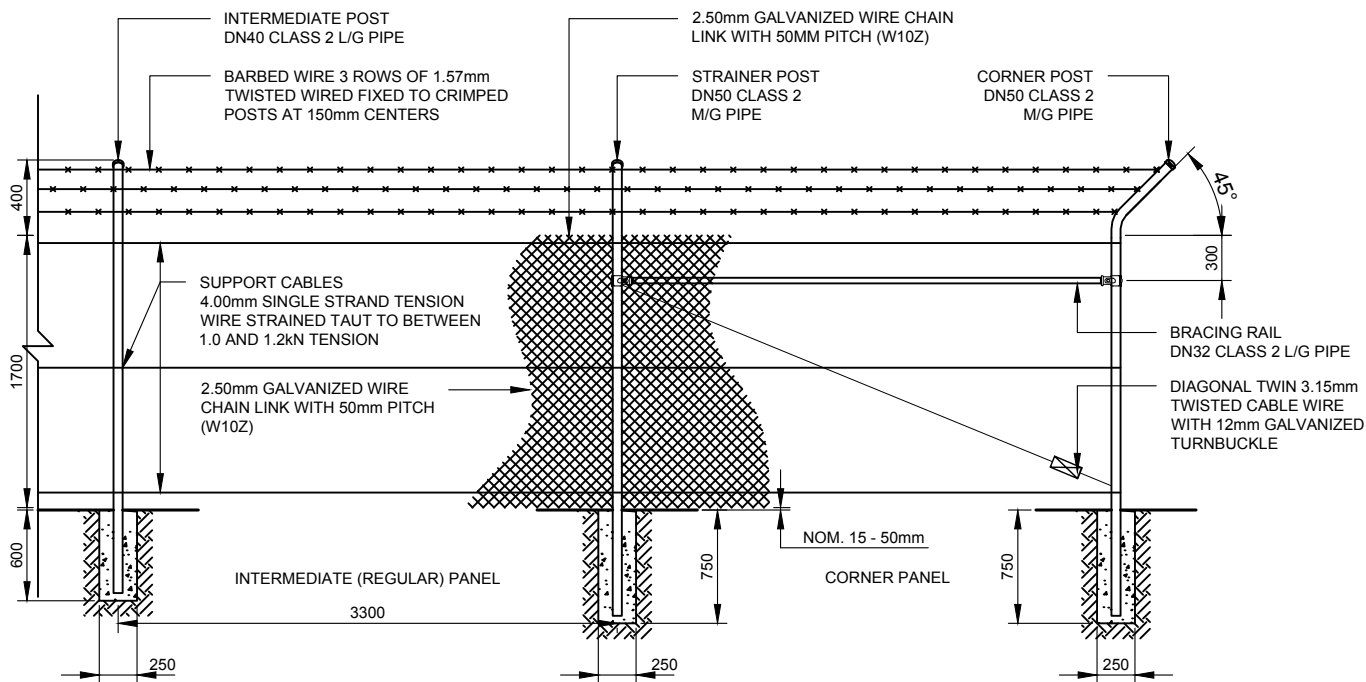
2 TYPICAL FOOTING SIDE SECTION
SCALE: 1:50



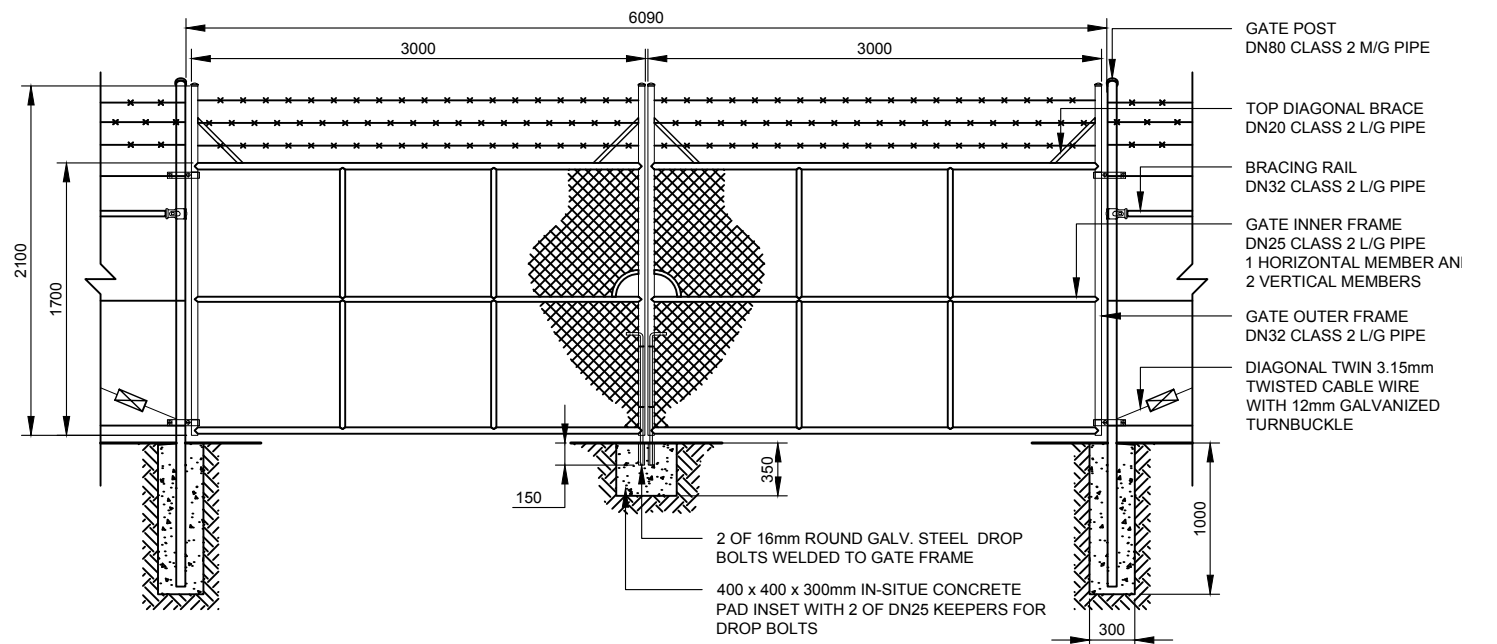
3 TYPICAL FOOTING END SECTION
SCALE: 1:50

DEVELOPMENT APPLICATION

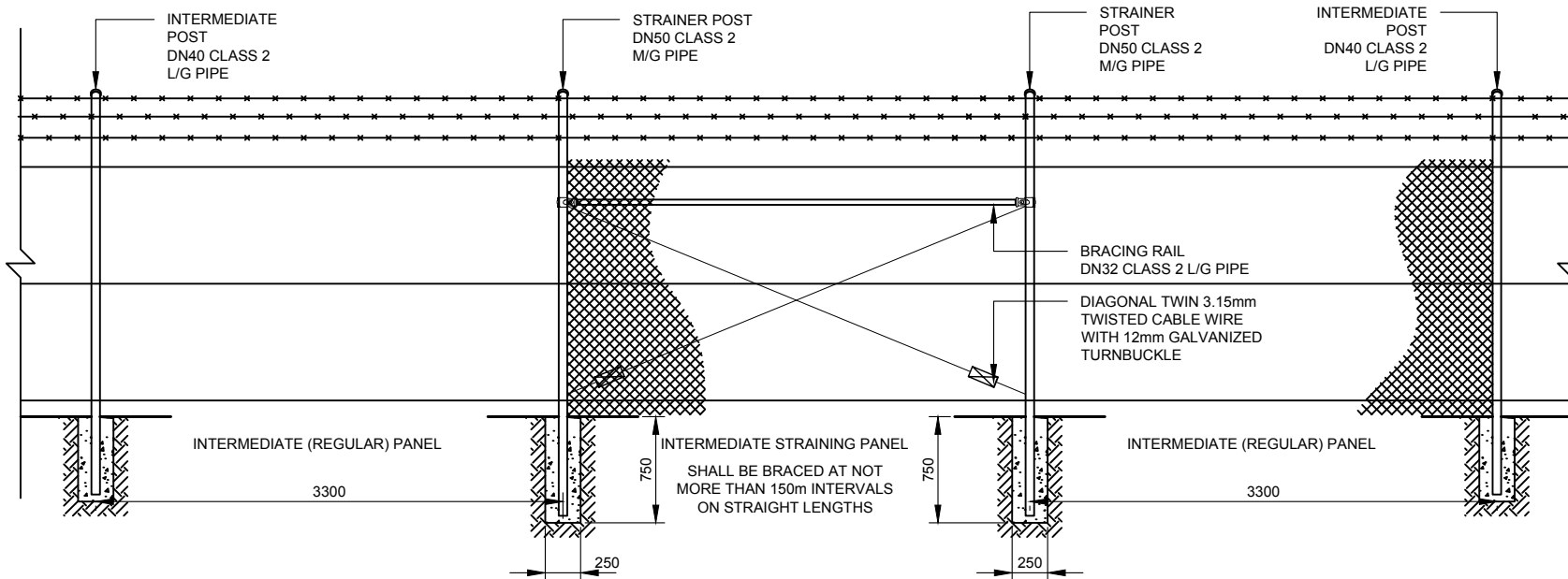
NO.	STAGE	DATE	NOTES	PARTNERS	itp RENEWABLES P: +61 2 6257 3511 info@itp.com.au www.itpau.com.au PO BOX 6217 O'CONNOR, ACT 2602 AUSTRALIA	DRAWN WJ CHECKED LF APPROVED KB DO NOT SCALE. ALL MEASUREMENTS IN MM UNLESS OTHERWISE STATED. THIS DOCUMENT MAY ONLY BE USED BY CLIENTS OF ITP OR THOSE WHO HAVE RECEIVED EXPRESS PERMISSION FROM ITP. THE USE OF THIS DRAWING SHALL NOT EXTEND BEYOND THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.	DRAWING INVERTER STATION FOOTING DETAIL PROJECT NARROMINE 4A CLIENT ITP DEVELOPMENT ADDRESS 6 EUROMEDAH RD. NARROMINE NSW 2821, AUSTRALIA DRAWING NO. NRM4A-C-430	SCALE AS NOTED SHEET SIZE A3 ORIG. DATE 20/5/19 REV. DATE 13/6/19 REV NO. 01.1
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1 TYPICAL FENCE SECTION
SCALE: 1:50

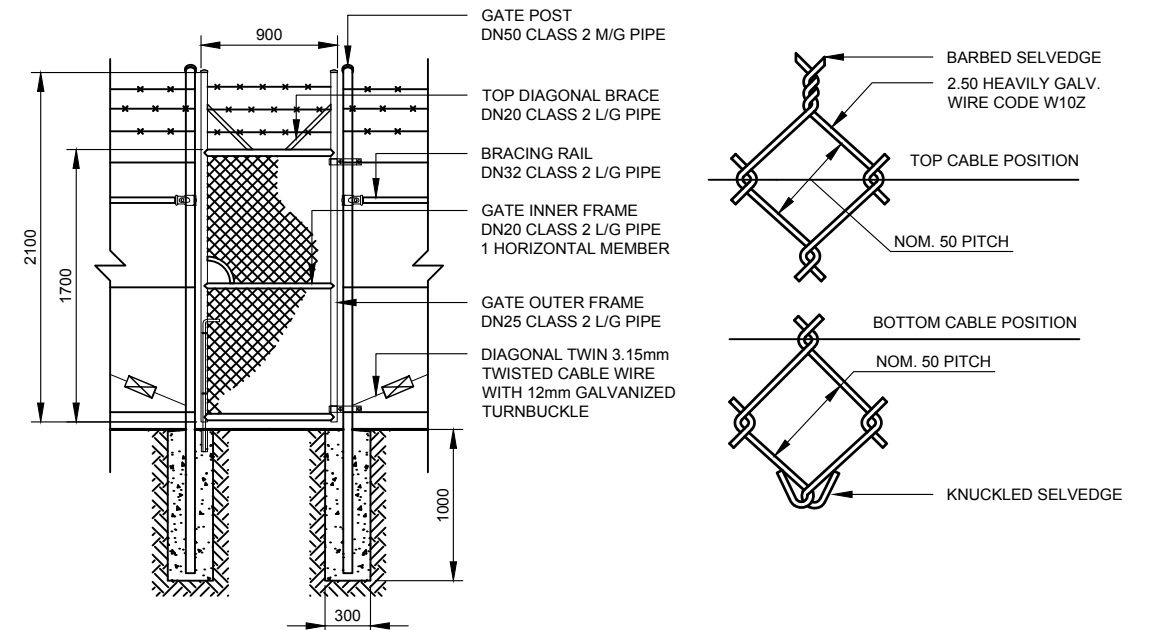


3 DOUBLE LEAF 6 METER GATE SECTION
SCALE: 1:50



2 INTERMEDIATE STRAINING PANEL FENCE SECTION
SCALE: 1:50

FENCE AND GATES TO BE DESIGNED AND CONSTRUCTED TO AS 1725 PART 1



4 SINGLE LEAF GATE SECTION
SCALE: 1:50

DEVELOPMENT APPLICATION

NO.	STAGE	DATE	NOTES	PARTNERS	DRAWN	WJ	CHECKED	LF	APPROVED	KB	DRAWING	TYPICAL FENCING DETAIL
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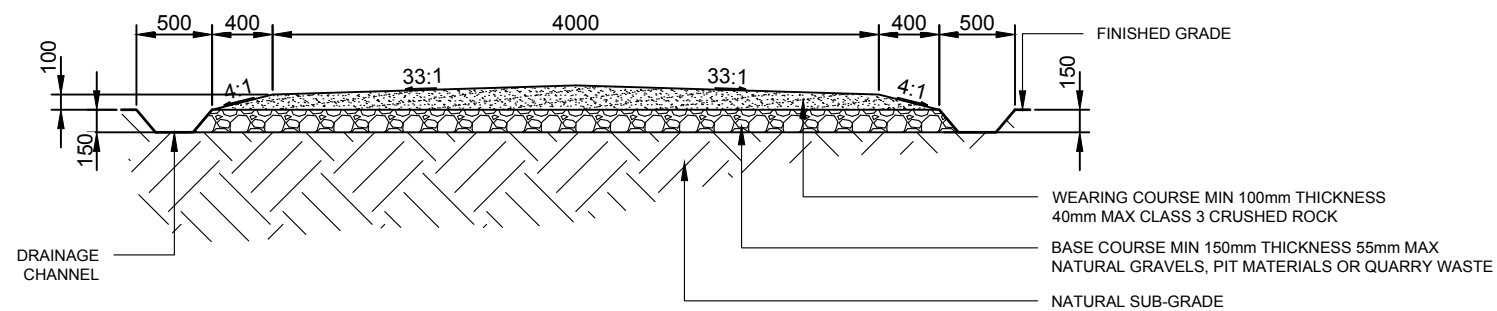


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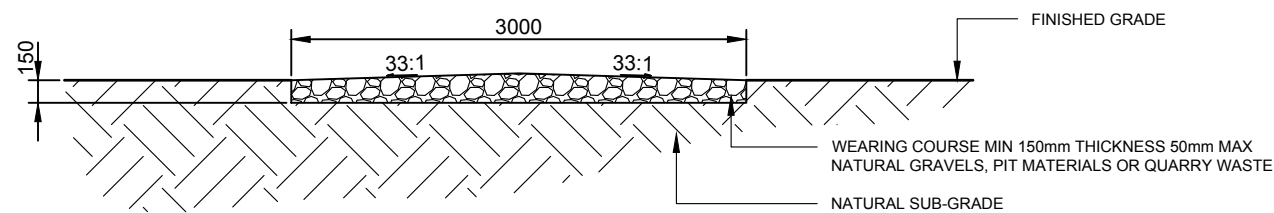
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AUSTRALIA

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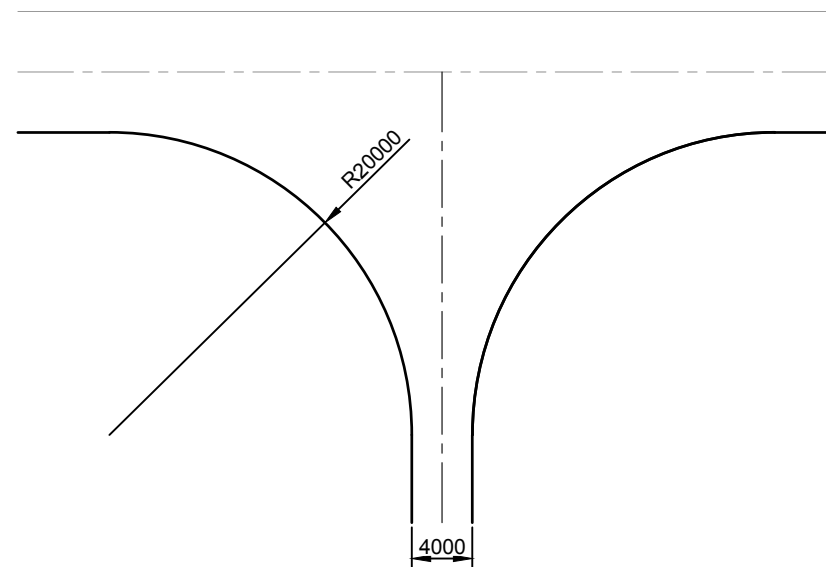
PROJECT	NARROMINE 4A	SCALE	AS NOTED
CLIENT	ITP DEVELOPMENT	SHEET SIZE	A3
ADDRESS	6 EUROMEDAH RD. NARROMINE NSW 2821, AUSTRALIA	ORIG. DATE	23/1/19
DRAWING NO.	NRM4A-C-530	REV. DATE	13/6/19
		REV. NO.	01



1 CROSS SECTION - PRIMARY ROAD
SCALE: 1:50

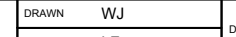


2 CROSS SECTION - SECONDARY ROAD
SCALE: 1:50

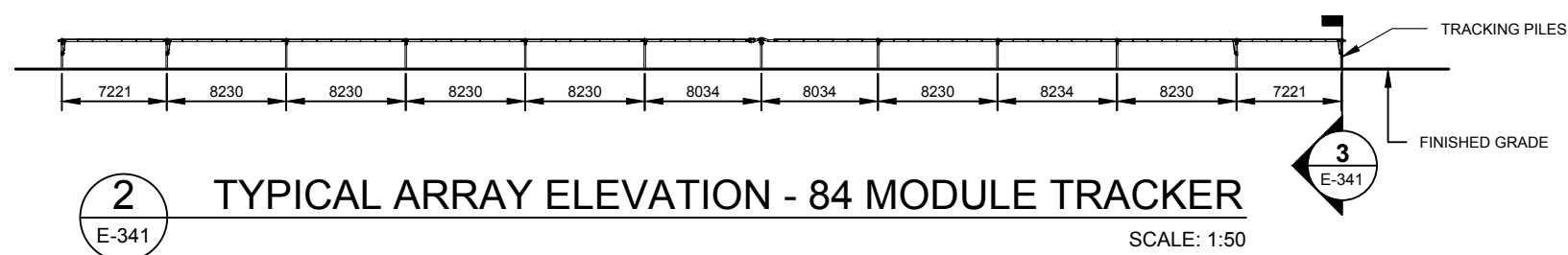
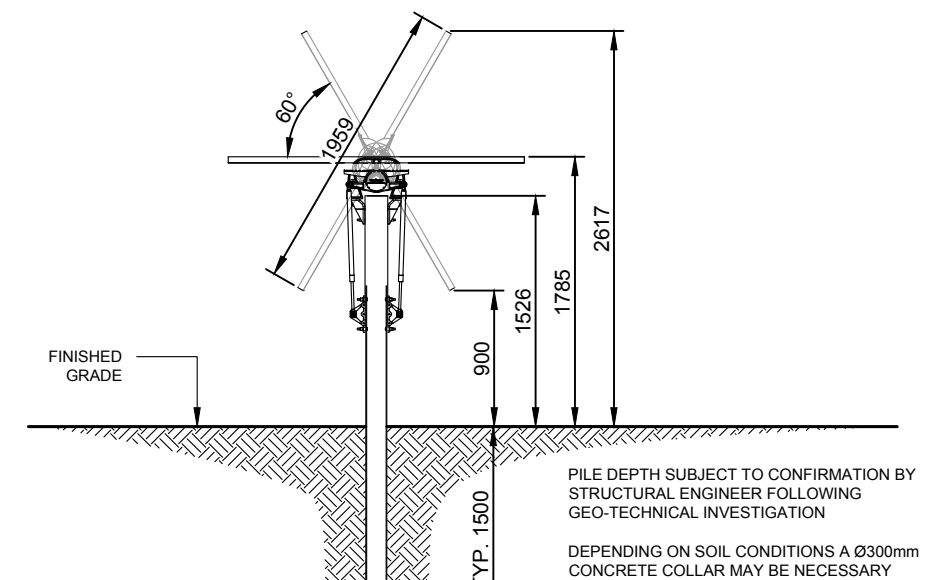
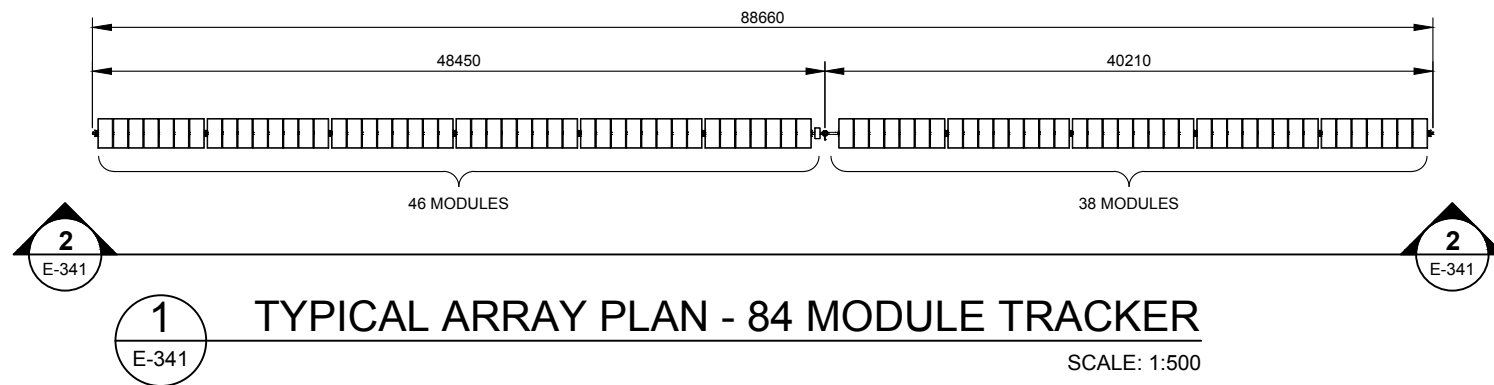


3 TYPICAL TURNING DETAIL PLAN
SCALE: 1:500


DEVELOPMENT APPLICATION

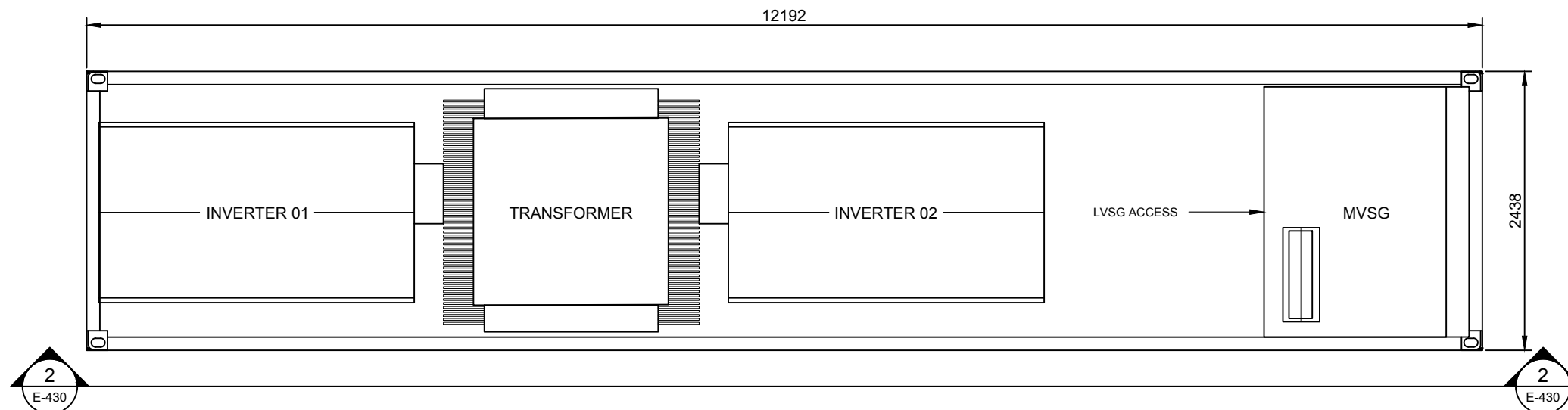
NO.	STAGE	DATE	NOTES	PARTNERS	<div><p>P: +61 2 6257 3511 info@itp.com.au www.itpau.com.au</p><p>PO BOX 6217 O'CONNOR, ACT 2602 AUSTRALIA</p></div>	<table><tr><td>DRAWN</td><td>WJ</td></tr><tr><td>CHECKED</td><td>LF</td></tr><tr><td>APPROVED</td><td>KB</td></tr><tr><td colspan="2">DO NOT SCALE. ALL MEASUREMENTS IN MM UNLESS OTHERWISE STATED.</td></tr><tr><td colspan="2">THIS DOCUMENT MAY ONLY BE USED BY CLIENTS OF ITP OR THOSE WHO HAVE RECEIVED EXPRESS PERMISSION FROM ITP. THE USE OF THIS DRAWING SHALL NOT EXTEND BEYOND THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.</td></tr></table>	DRAWN	WJ	CHECKED	LF	APPROVED	KB	DO NOT SCALE. ALL MEASUREMENTS IN MM UNLESS OTHERWISE STATED.		THIS DOCUMENT MAY ONLY BE USED BY CLIENTS OF ITP OR THOSE WHO HAVE RECEIVED EXPRESS PERMISSION FROM ITP. THE USE OF THIS DRAWING SHALL NOT EXTEND BEYOND THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.		<table><tr><td>DRAWING</td><td colspan="2">ACCESS ROAD DETAIL</td></tr><tr><td colspan="3">----</td></tr><tr><td>PROJECT</td><td>NARROMINE 4A</td><td>SCALE AS NOTED</td></tr><tr><td>CLIENT ADDRESS</td><td>ITP DEVELOPMENT 6 EUROMEDAH RD. NARROMINE NSW 2821, AUSTRALIA</td><td>SHEET SIZE A3</td></tr><tr><td></td><td></td><td>ORIG. DATE 20/5/19</td></tr><tr><td></td><td></td><td>REV. DATE 13/6/19</td></tr><tr><td>DRAWING NO.</td><td>NRM4A-C-631</td><td>REV NO. 01.1</td></tr></table>	DRAWING	ACCESS ROAD DETAIL		----			PROJECT	NARROMINE 4A	SCALE AS NOTED	CLIENT ADDRESS	ITP DEVELOPMENT 6 EUROMEDAH RD. NARROMINE NSW 2821, AUSTRALIA	SHEET SIZE A3			ORIG. DATE 20/5/19			REV. DATE 13/6/19	DRAWING NO.	NRM4A-C-631	REV NO. 01.1
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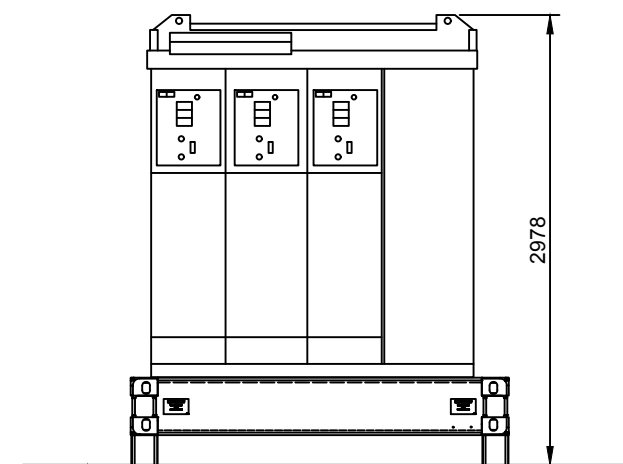


DEVELOPMENT APPLICATION

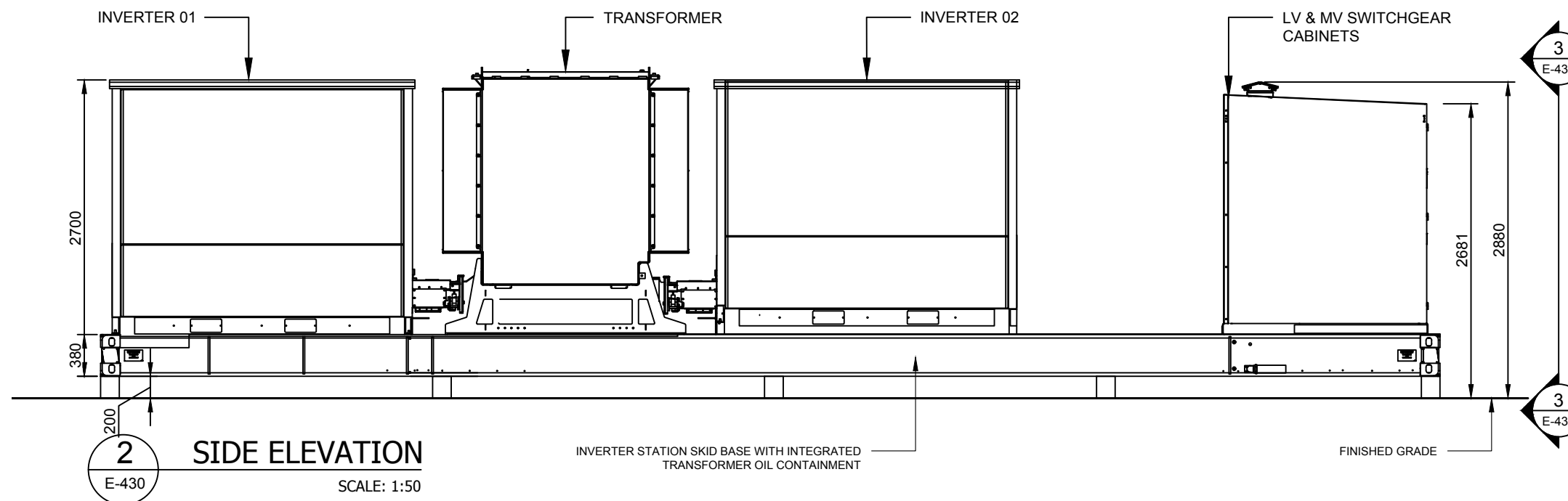
NO.	STAGE	DATE	NOTES	PARTNERS				
1	####	####			<div><p>P: +61 2 6257 3511 info@itp.com.au www.itpau.com.au</p><p>PO BOX 6217 O'CONNOR, ACT 2602 AUSTRALIA</p></div>	<div><div>DRAWN WJ</div><div>CHECKED LF</div><div>APPROVED KB</div><div>DO NOT SCALE. ALL MEASUREMENTS IN MM UNLESS OTHERWISE STATED.</div><div>THIS DOCUMENT MAY ONLY BE USED BY CLIENTS OF ITP OR THOSE WHO HAVE RECEIVED EXPRESS PERMISSION FROM ITP. THE USE OF THIS DRAWING SHALL NOT EXTEND BEYOND THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.</div></div>	<div>DRAWING TYPICAL ARRAY DETAIL</div> <div>PROJECT NARROMINE 4A</div> <div>CLIENT ITP DEVELOPMENT</div> <div>ADDRESS 6 EUROMEDAH RD. NARROMINE NSW 2821, AUSTRALIA</div> <div>DRAWING NO. NRM4A-E-341</div>	<div>SCALE AS NOTED</div> <div>SHEET SIZE A3</div> <div>ORIG. DATE 23/11/19</div> <div>REV. DATE 13/6/19</div> <div>REV NO. 01.1</div>
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1 PLAN VIEW
SCALE: 1:50




3 END ELEVATION
SCALE: 1:50



2 SIDE ELEVATION
SCALE: 1:50

DEVELOPMENT APPLICATION

NO.	STAGE	DATE	NOTES	PARTNERS	<div>  <p> P: +61 2 6257 3511 info@itp.com.au www.itpau.com.au </p> <p> PO BOX 6217 O'CONNOR, ACT 2602 AUSTRALIA </p> </div>	DRAWN WJ CHECKED LF APPROVED KB DO NOT SCALE. ALL MEASUREMENTS IN MM UNLESS OTHERWISE STATED. THIS DOCUMENT MAY ONLY BE USED BY CLIENTS OF ITP OR THOSE WHO HAVE RECEIVED EXPRESS PERMISSION FROM ITP. THE USE OF THIS DRAWING SHALL NOT EXTEND BEYOND THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.	DRAWING TYPICAL INVERTER STATION DETAIL PROJECT NARROMINE 4A CLIENT ITP DEVELOPMENT ADDRESS 6 EUROMEDAH RD. NARROMINE NSW 2821, AUSTRALIA DRAWING NO. NRM4A-E-430	SCALE AS NOTED SHEET SIZE A3 ORIG. DATE 20/5/19 REV. DATE 13/6/19 REV NO. 01.1
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