

POFADDER

COMPLETION OF OUTSTANDING WORKS OF THE MICROGRID PROJECT

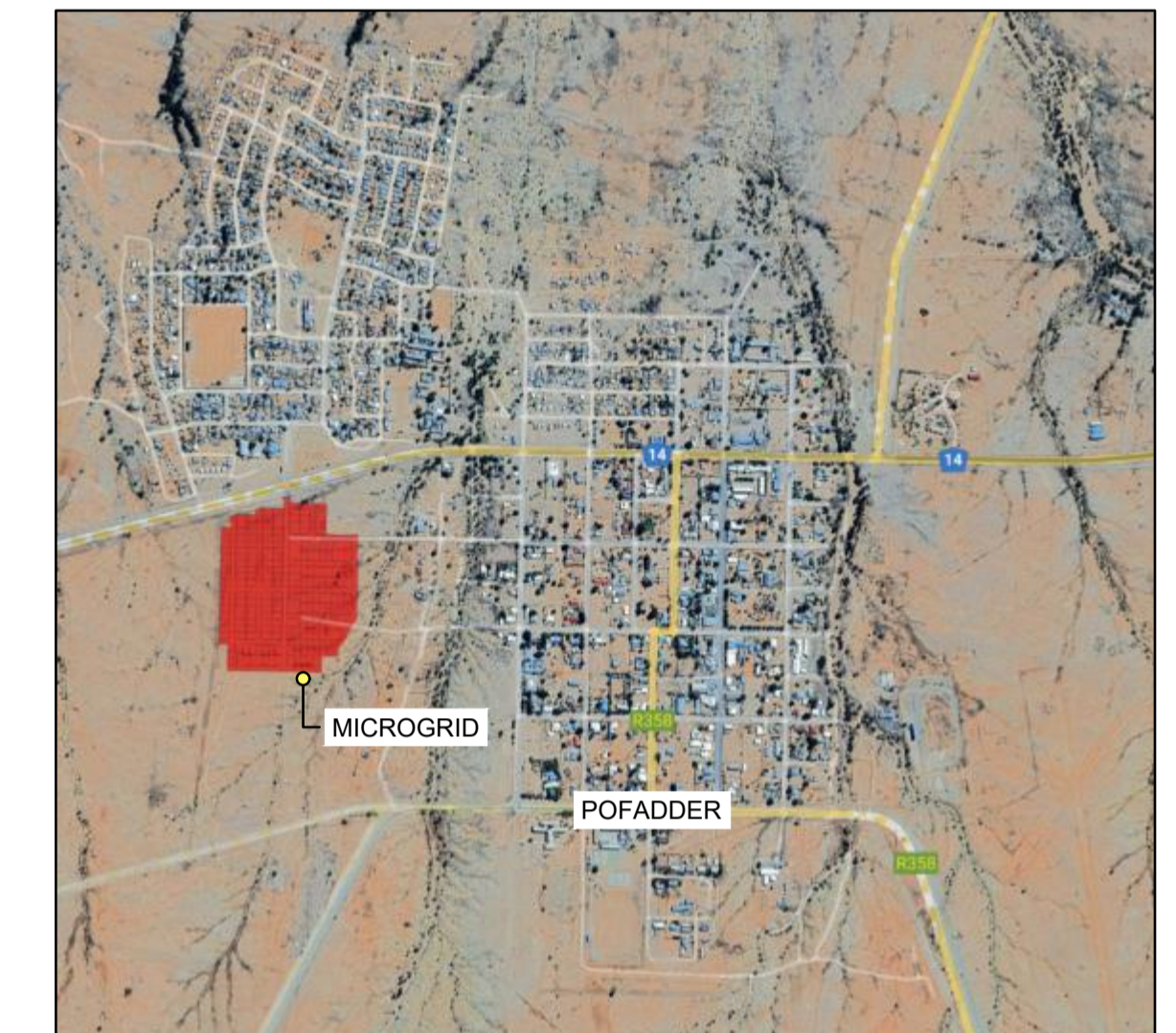
KHAI-MA LOCAL MUNICIPALITY

ELECTRICAL

DRAWING NO.	DESCRIPTION	REVISION
3094/K/D/D/001	DRAWING LIST	
3094/K/G/L/001	MICROGRID SITE LAYOUT	
3094/K/G/L/002	INVERTER/BATTERY CONTAINER LAYOUTS	
3094/K/G/SLD/001	PV SOLAR OFF-GRID INSTALLATION -SINGLE LINE DIAGRAM	
3094/K/G/D/001	POLES SPECIFICATIONS DETAIL SHEET	
3094/K/G/D/002	CLEARVU DETAIL	

STRUCTURAL

DRAWING NO.	DESCRIPTION	REVISION
3094/S/S/L/001	CONCRETE AND STEEL LAYOUT	
3094/S/S/S/001	SECTIONS	
3094/S/R/L/001	CONCRETE REINFORCEMENT LAYOUT	
3094/S/S/D/001	CONNECTION DETAILS SHEET 1 OF 2	
3094/S/S/D/002	CONNECTION DETAILS SHEET 2 OF 2	



NOTE/NOTA :
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NO. NR.	DATE DATUM	AMENDMENTS WYSIGINGS

MVD Kalahari
Consulting Engineers and Town Planning/Raadgewende Ingenieurs en Stadsbeplanning.

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Postbus / P.O. Box 580, Kimberley 8300
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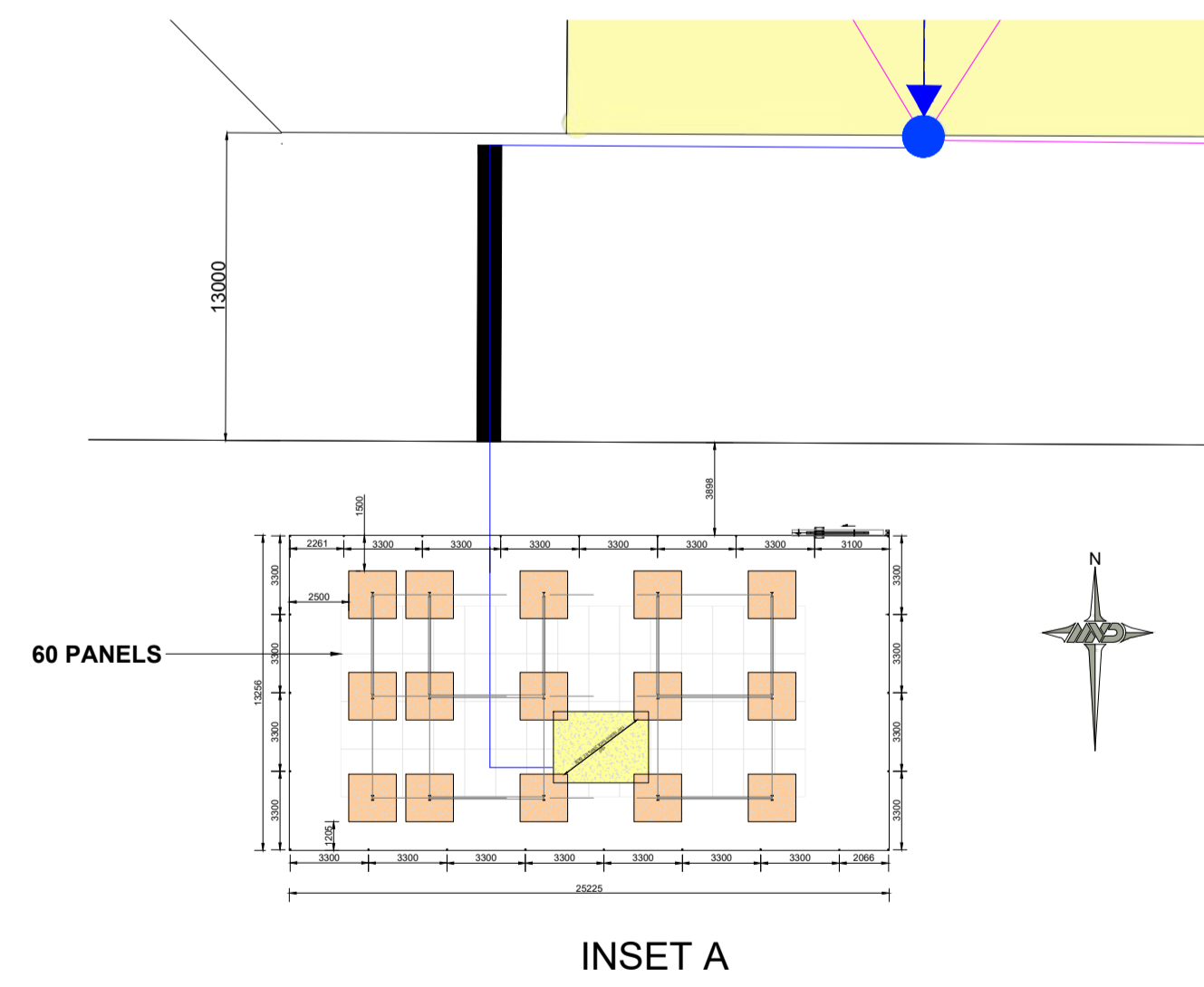

DESIGN ONTWERP	H. Jonck
DRAWN GETEKEN	G. Bosman
CHECKED NAGEGAAN	H. Jonck
CLIENT KLIENT	----
DATE DATUM	MAY 2026

PROJECT/PROJEK
POFADDER-COMPLETION OF OUTSTANDING WORKS OF THE MICROGRID PROJECT

CLIENT/KLIENT KhAI-MA LOCAL MUNICIPALITY			
DRAWING DESCRIPTION/TEKENING BESKRYWING DRAWING LIST			
PAPER SIZE/PAPIER GROOTTE A1	SCALE/SKAAL NTS	DRAWING No./TEKENING Nr. 3094/K/D/D/001	REV No. --

FOR TENDER

LEGEND	
SYMBOL	DESCRIPTION
	LV POLE WITH STAY AND STRUT
	LV POLE WITH FLYING STAY
	MV POLE WITH STAY AND STRUT
	MV POLE WITH FLYING STAY
	TRANSFORMER (FLOOR MOUNTED)
	TRANSFORMER (POLE MOUNTED)
	LV POLE
	MV POLE
	MINI SUB
	LV KIOSK / DB
	35mm² x 3C AL + N ABC
	PROPOSED SERVICE CONNECTIONS (10mm² AIRDAC)
	OCCUPIED ERVEN (20)
	INVERTER/BATTERY CONTAINER



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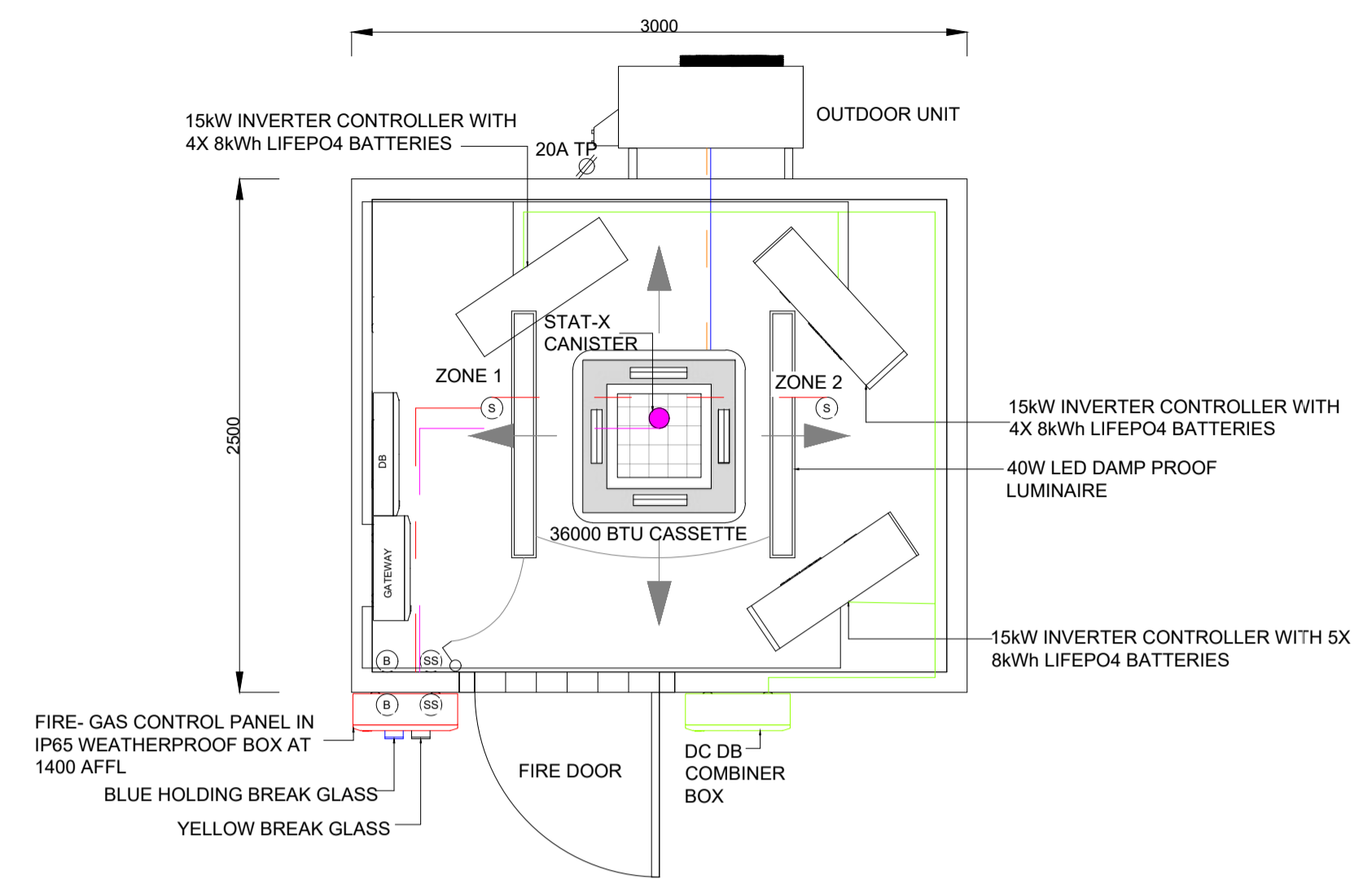
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DESIGN ONTWERP	H. Jonck
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CLIENT KLIJENT	----
DATE DATUM	APRIL 2025

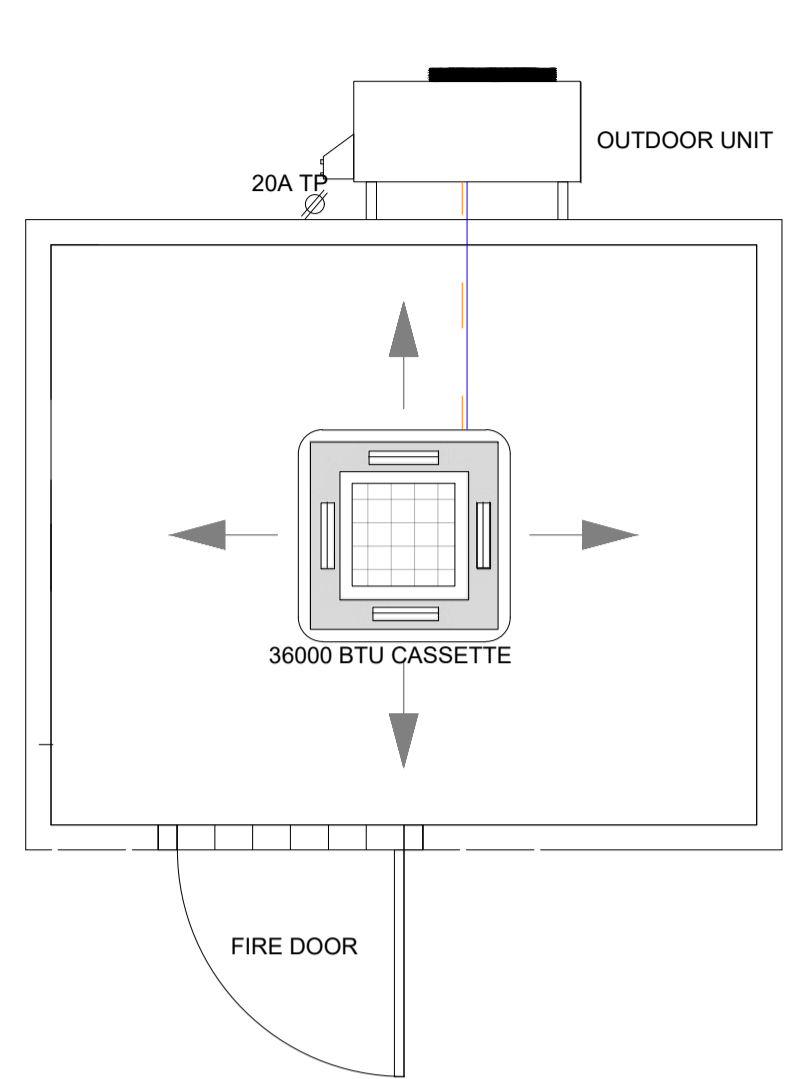
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CLIENT/KLIJENT	Khai-MA LOCAL MUNICIPALITY		
DRAWING DESCRIPTION/TEKENING BESKRYWING	MICROGRID SITE LAYOUT		
PAPER SIZE/PAPIER GROOTTE	SCALE/SKAAL	DRAWING No./TEKENING Nr.	REV No.
A1	1:1000	3094/K/G/L/001	--

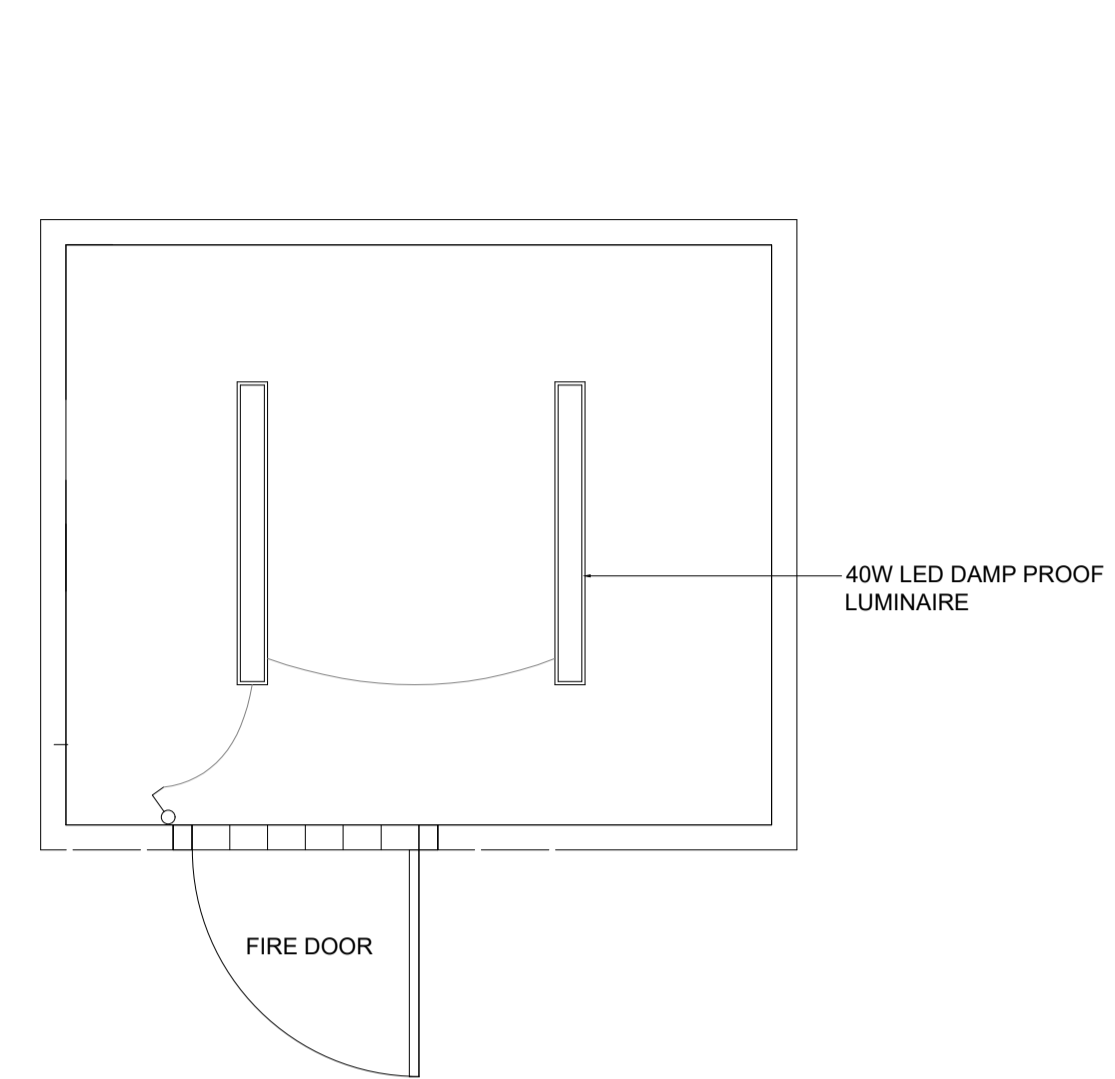
FOR TENDER



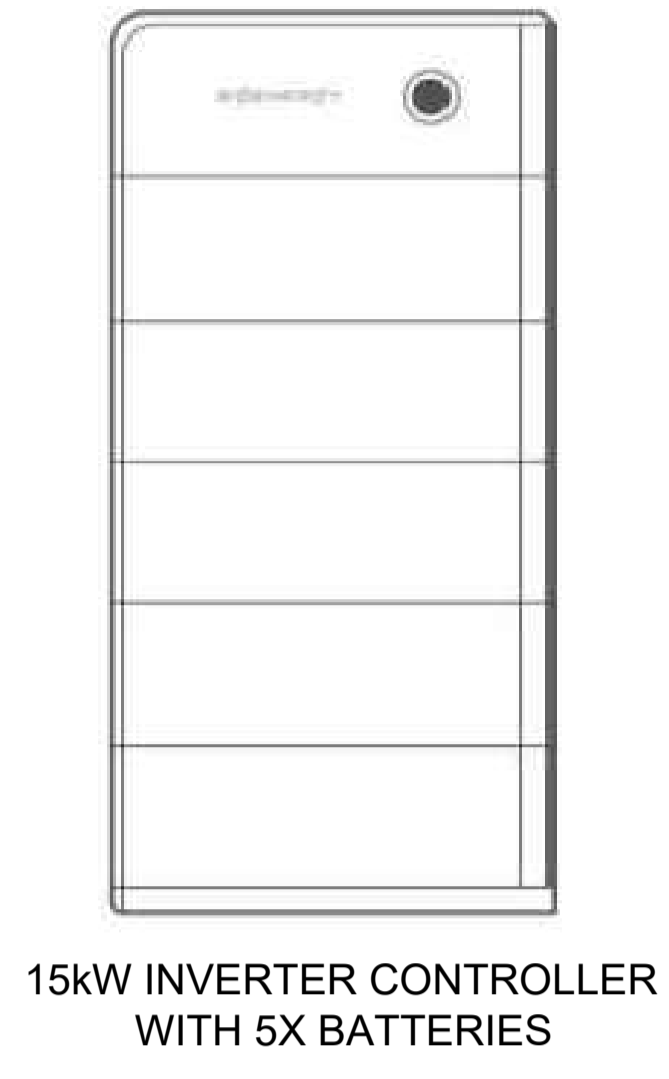
CONTAINER GENERAL LAYOUT
SCALE 1:30



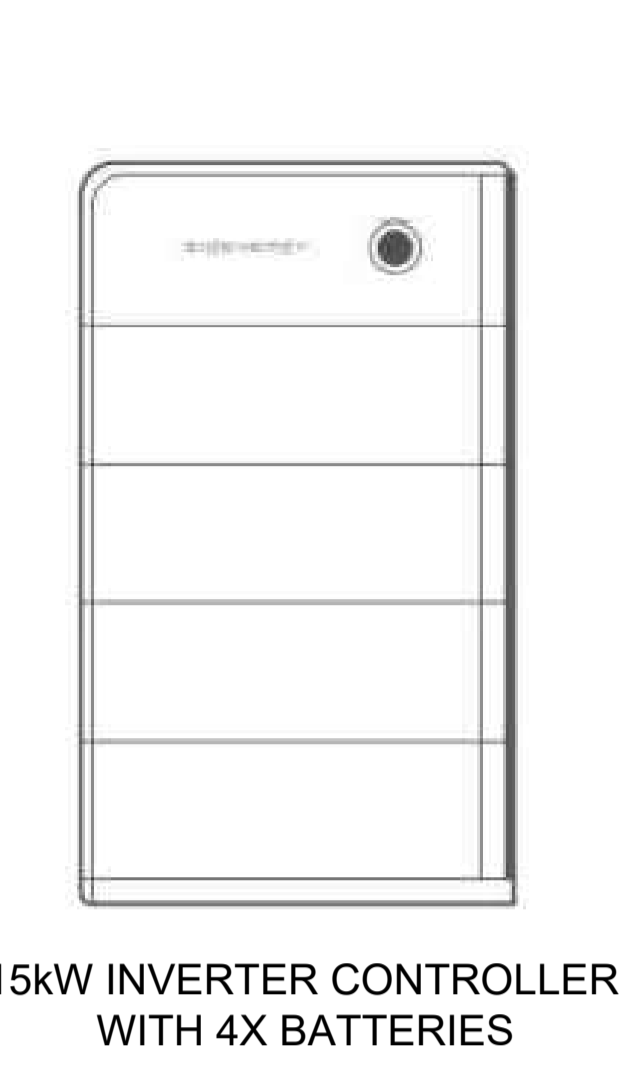
CONTAINER HVAC LAYOUT
SCALE 1:30



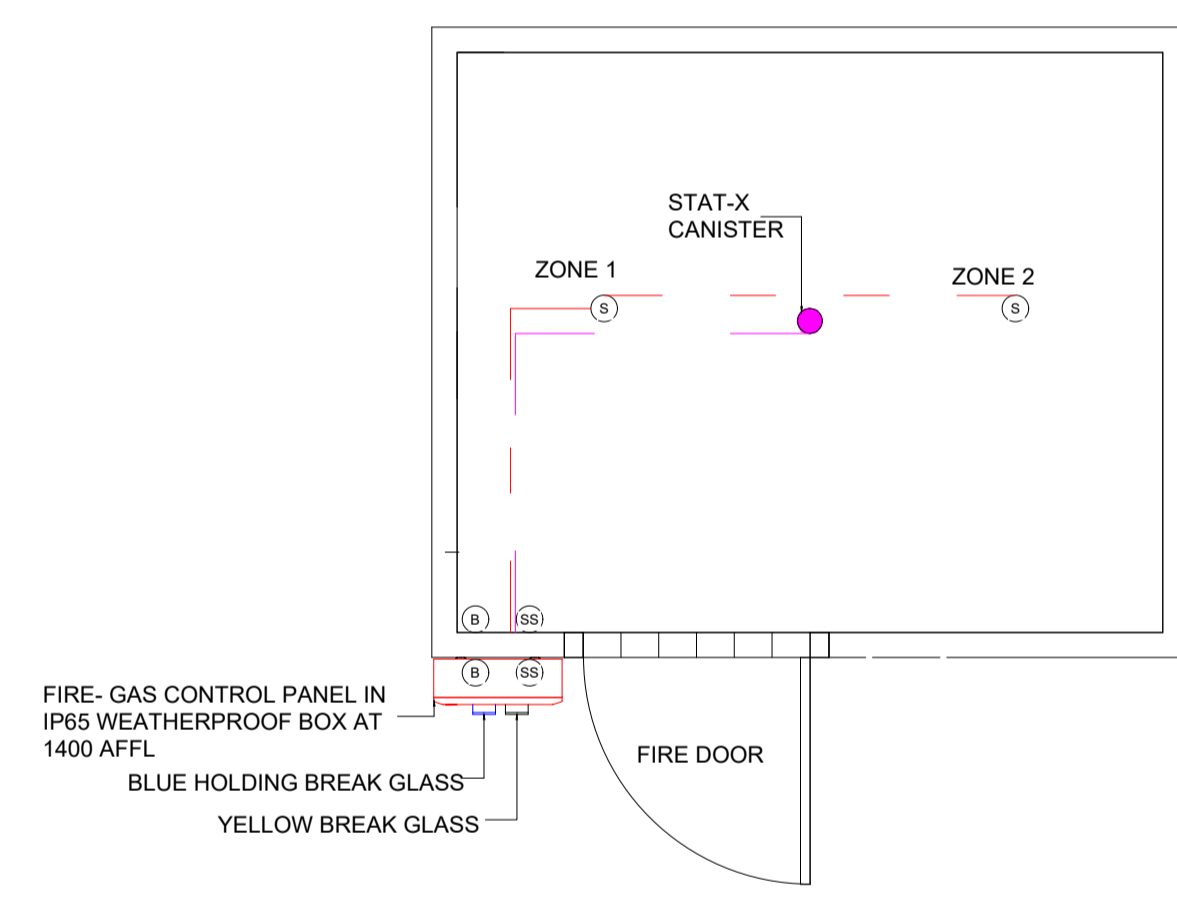
CONTAINER LIGHTING LAYOUT
SCALE 1:30



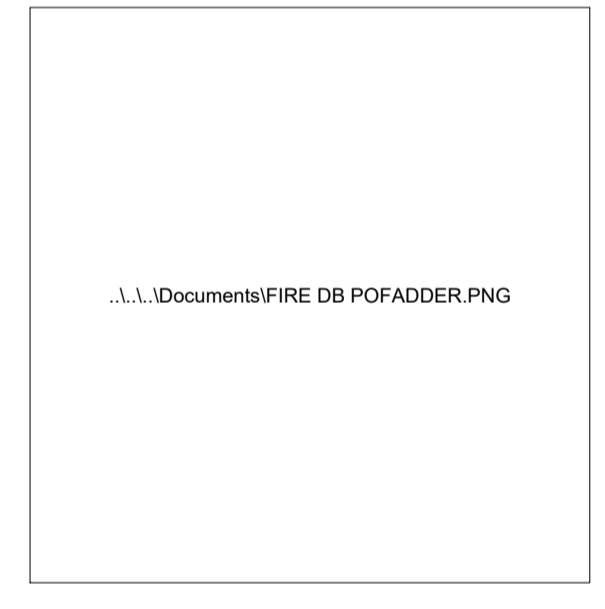
15kW INVERTER CONTROLLER WITH 5X BATTERIES



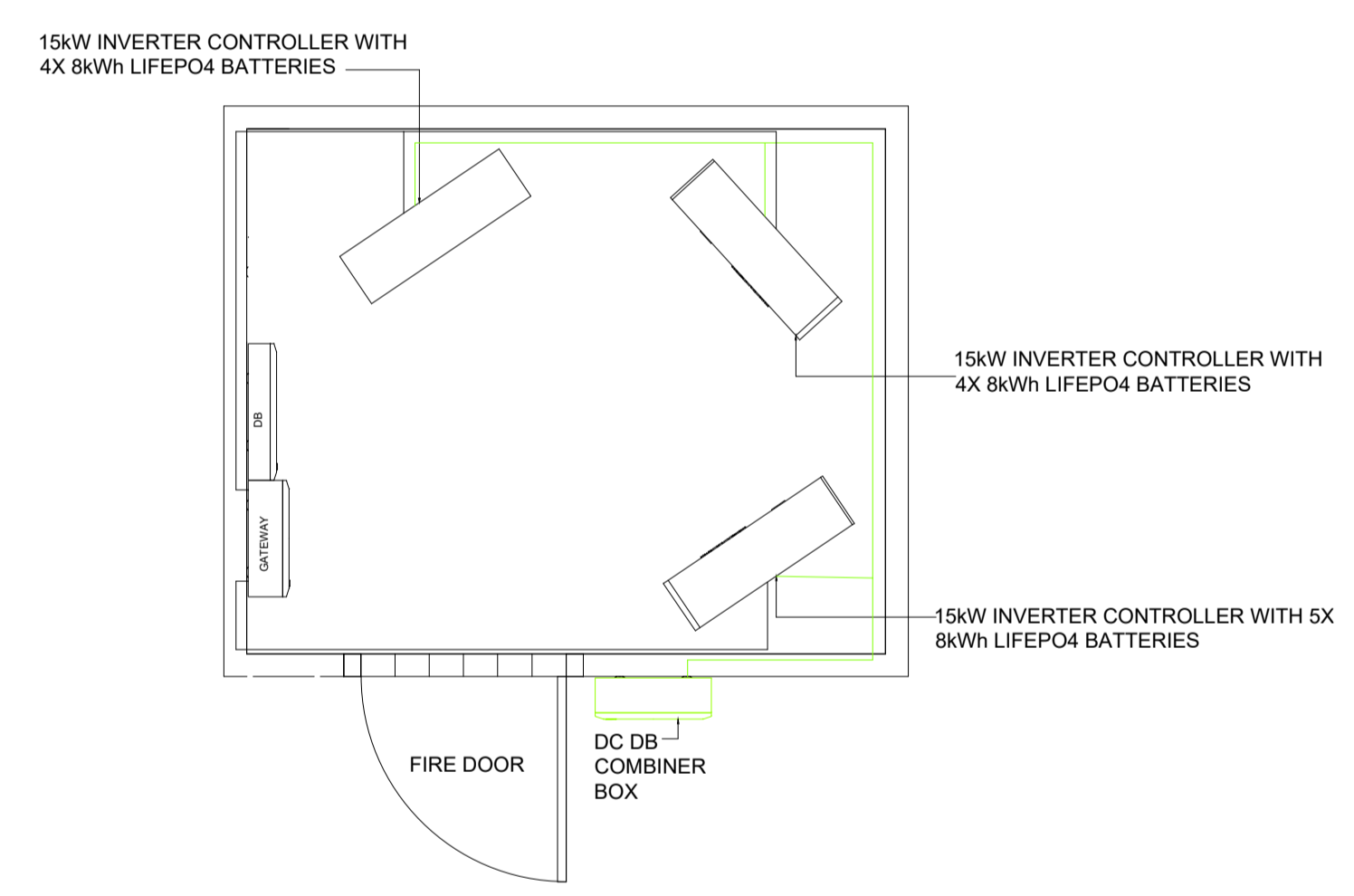
15kW INVERTER CONTROLLER WITH 4X BATTERIES



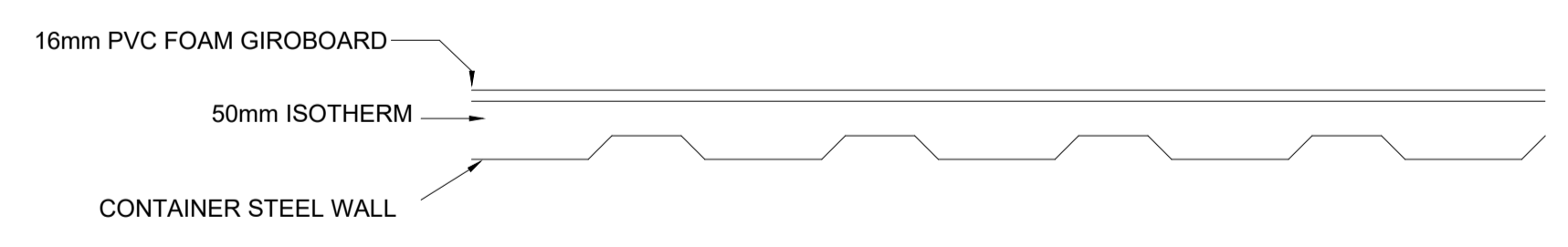
CONTAINER FIRE DETECTION AND PREVENTION LAYOUT
SCALE 1:30



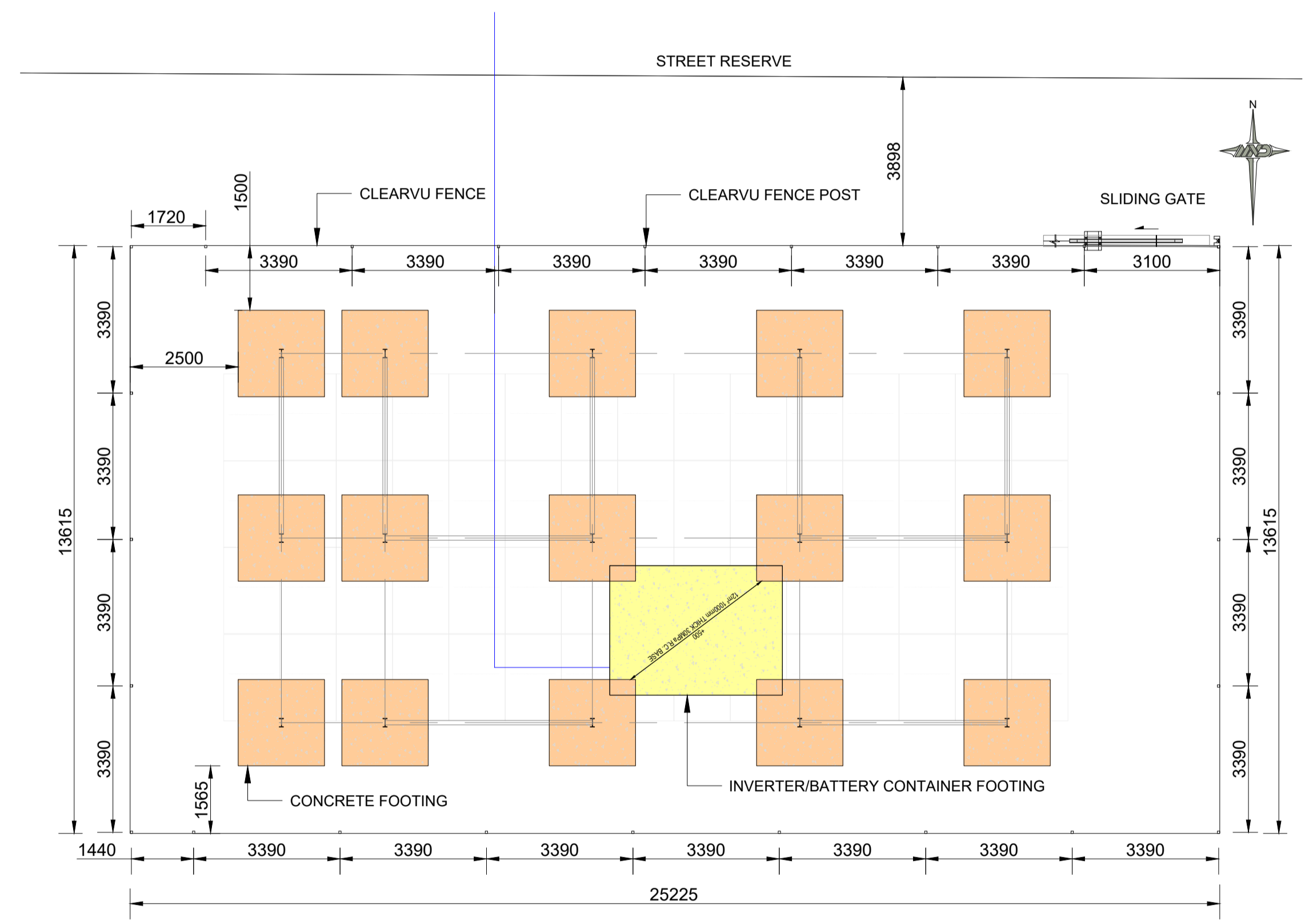
FIRE-GAS CONTROL PANEL



CONTAINER INVERTERS LAYOUT
SCALE 1:30



CONTAINER WALL TOP SECTION DETAIL
SCALE NTS



FENCE PLAN LAYOUT
SCALE 1:100

NOTE:
1. EXISTING CONCRETE FOOTING WILL BE THE REFERENCE POINTS FOR SETTING OUT OF CLEAR VU FENCE
2. TOP OF CONCRETE FOOTING BASES TO BE LEVEL

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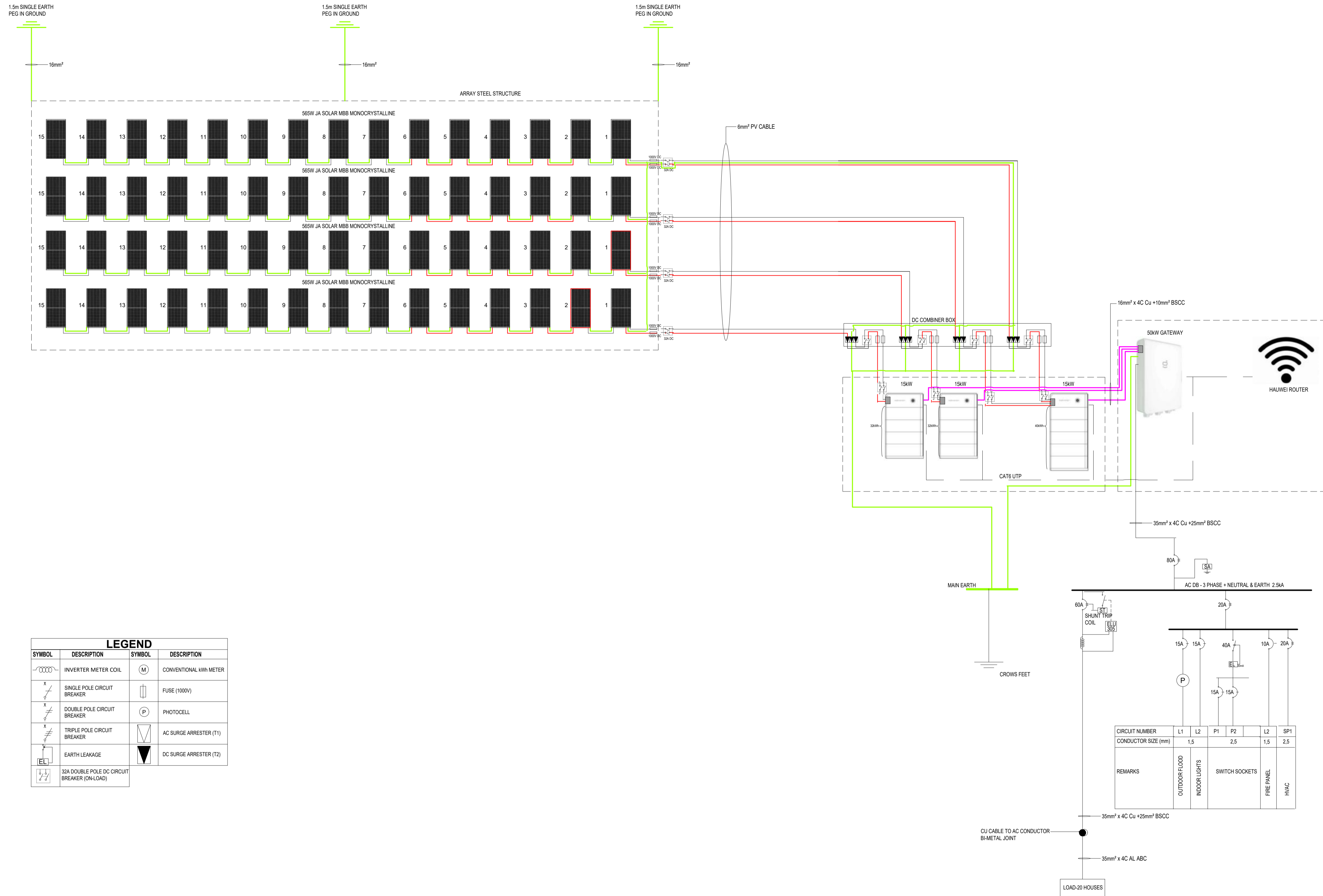
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PAPER SIZE/PAPIER GROOTTE A1	SCALE/SKAAL AS SHWN	DRAWING No./TEKENING Nr. 3094/K/G/L/002	REV No. --

FOR TENDER



LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	INVERTER METER COIL		CONVENTIONAL kWh METER
	SINGLE POLE CIRCUIT BREAKER		FUSE (1000V)
	DOUBLE POLE CIRCUIT BREAKER		PHOTOCELL
	TRIPLE POLE CIRCUIT BREAKER		AC SURGE ARRESTER (T1)
	EARTH LEAKAGE		DC SURGE ARRESTER (T2)
	32A DOUBLE POLE DC CIRCUIT BREAKER (ON-LOAD)		

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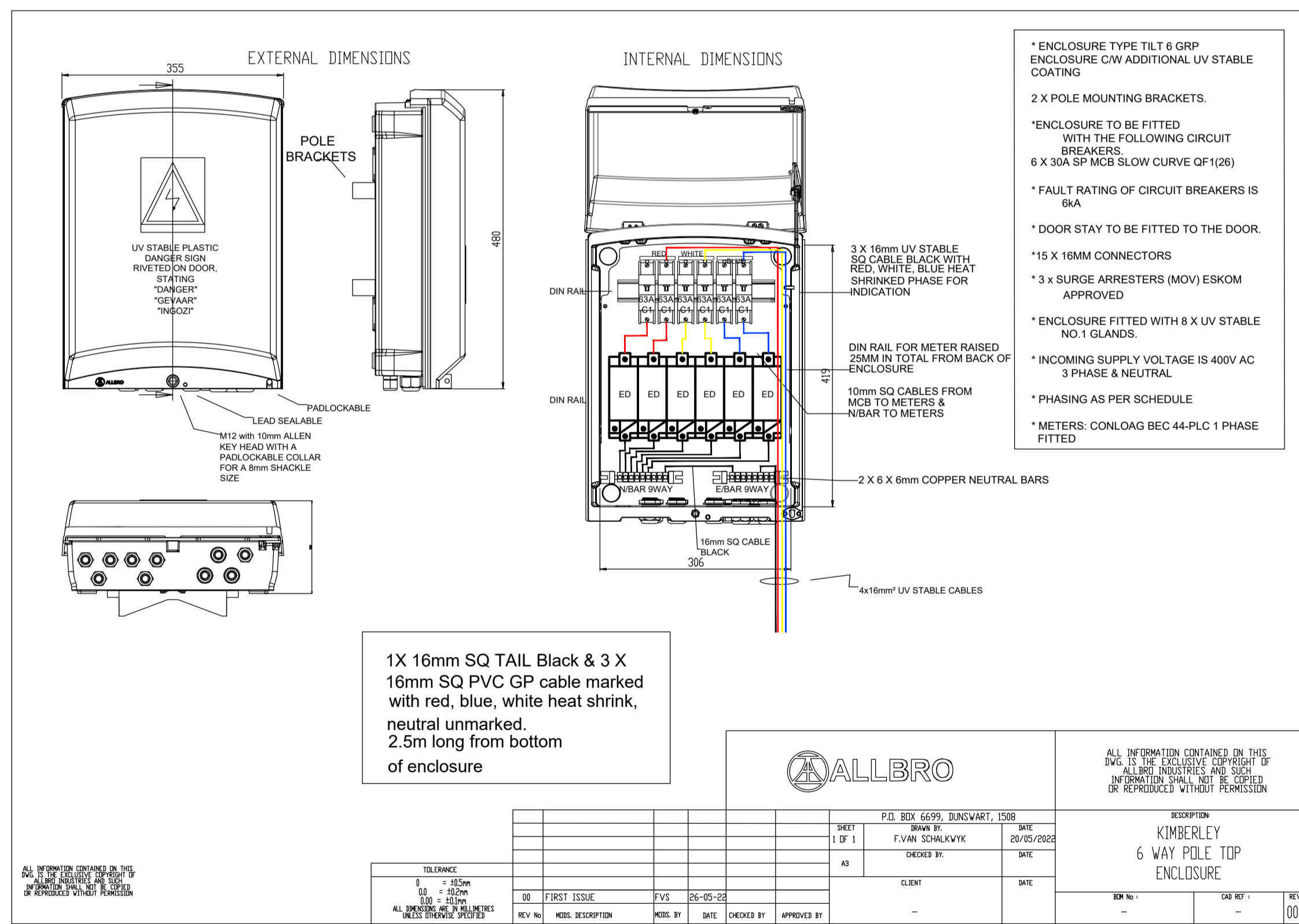
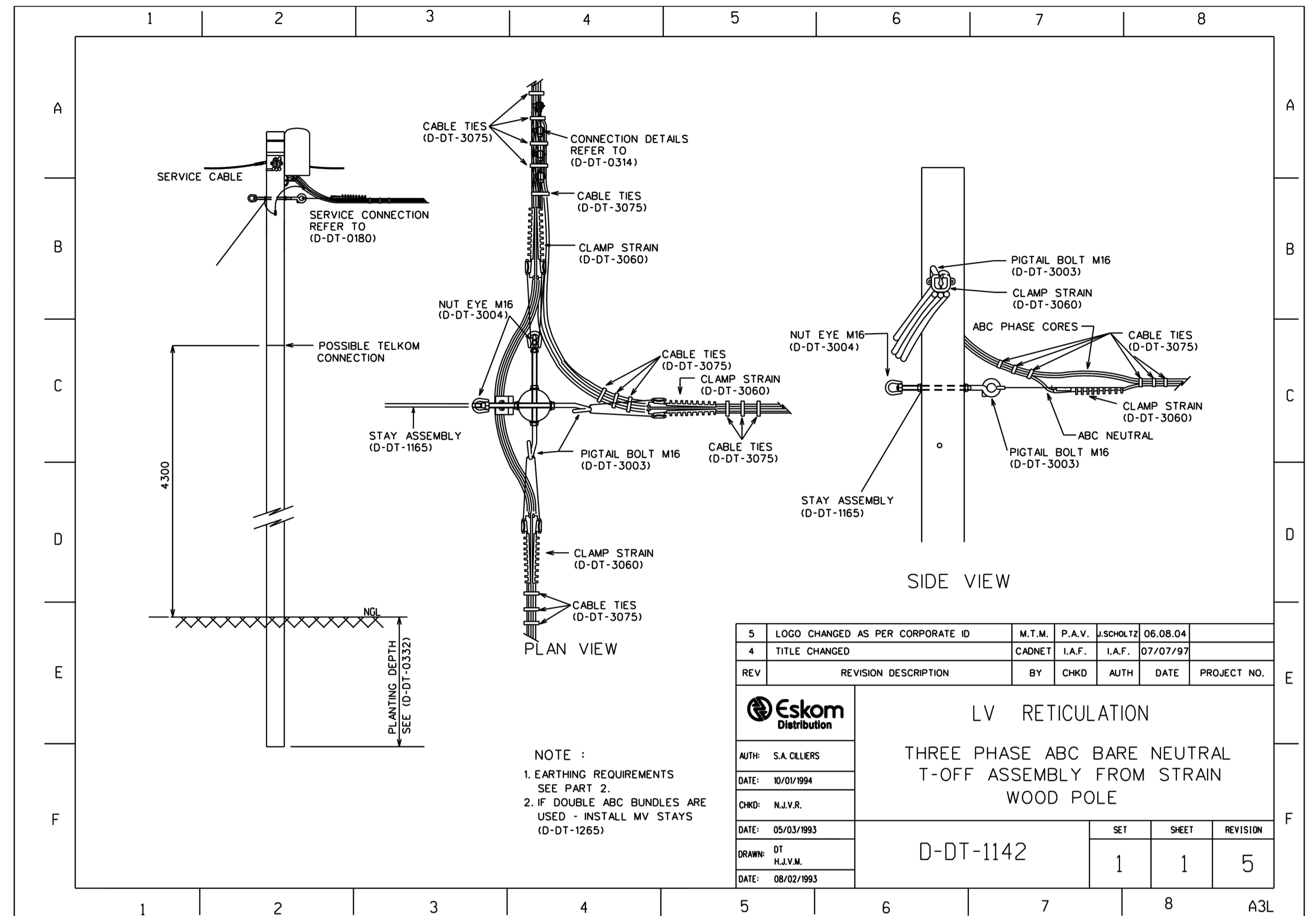
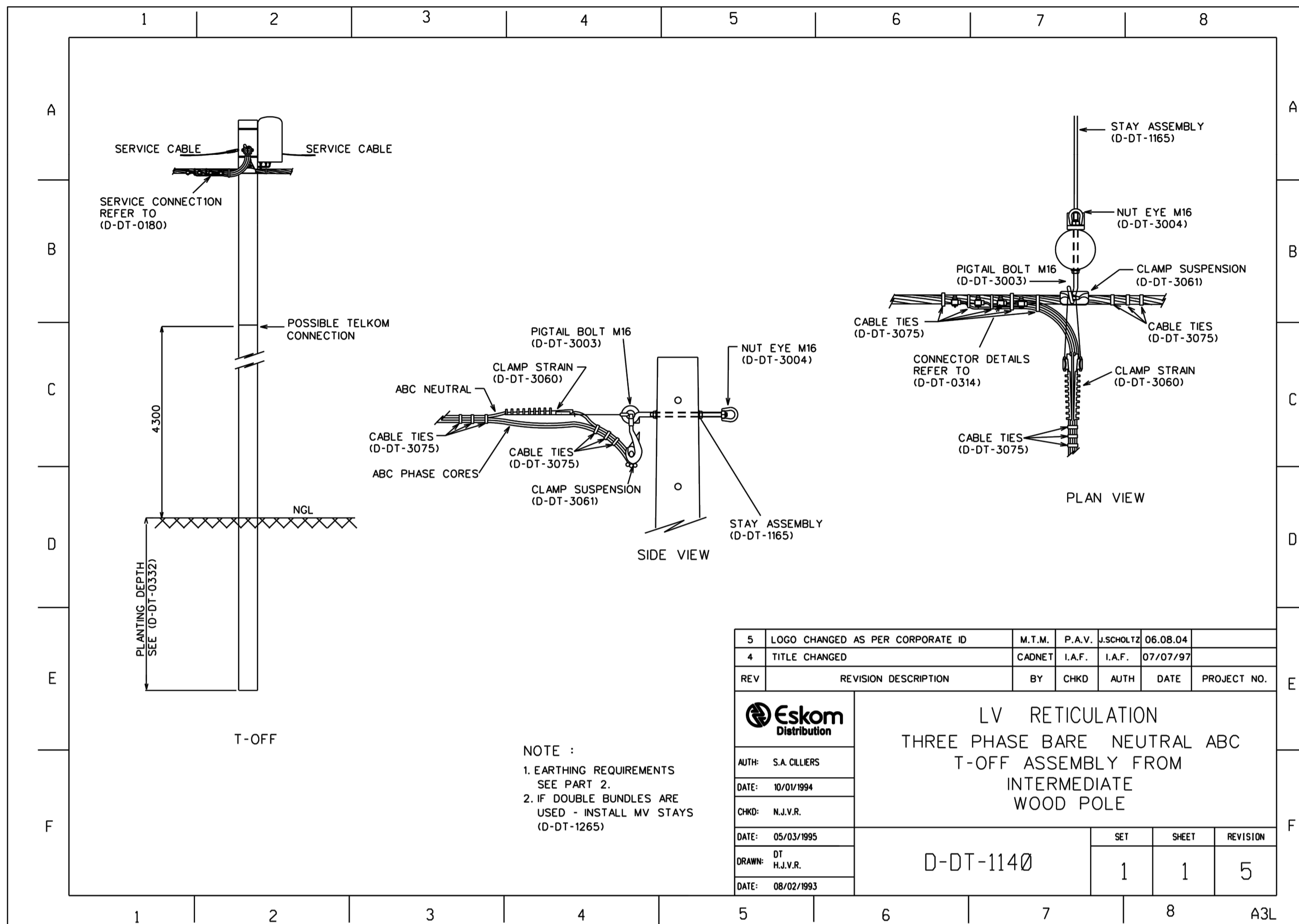
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PAPER SIZE/PAPIER GROOTTE	SCALE/SKAAL	DRAWING No./TEKENING Nr.	REV No.
A1	1:1000	3094/K/G/SLD/001	--

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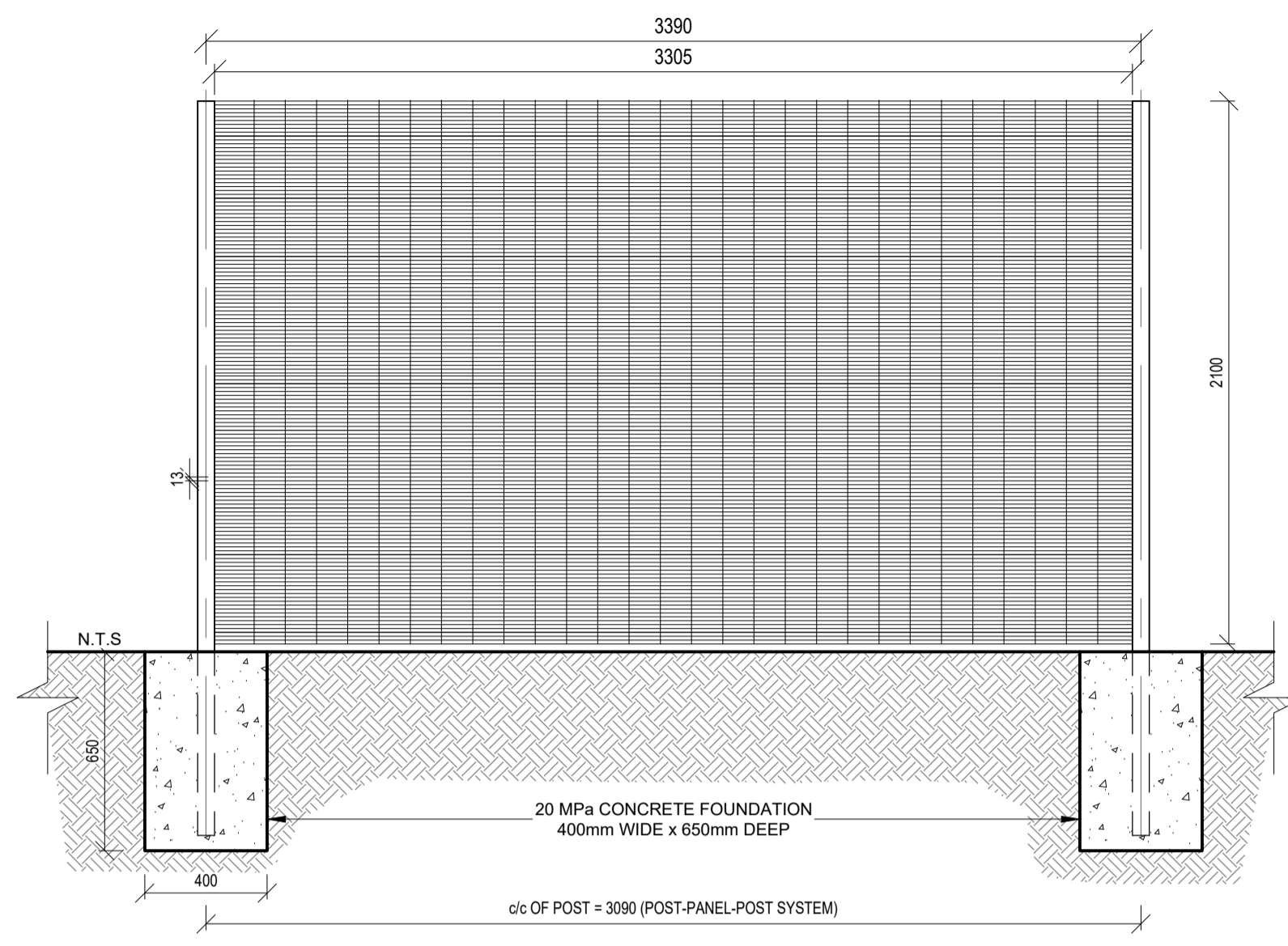
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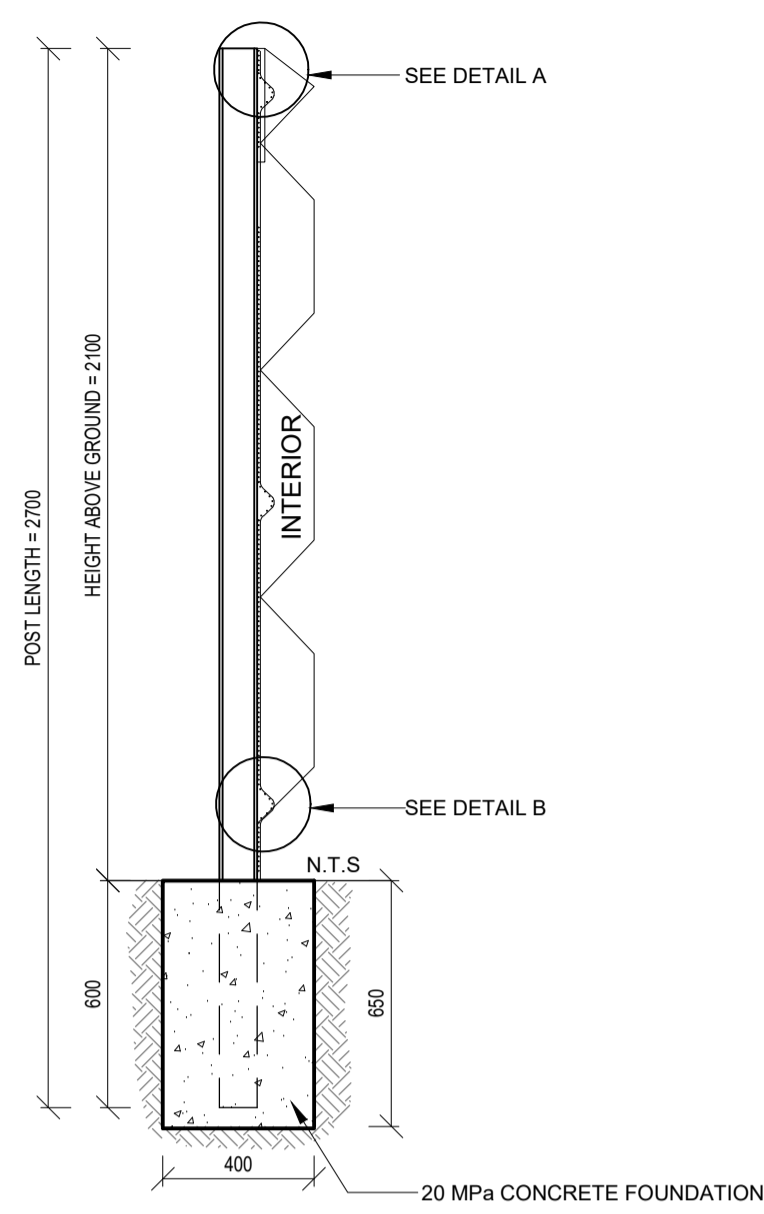
PROJECT/PROEJ: POFADDER-COMPLETION OF OUTSTANDING WORKS OF THE MICROGRID PROJECT

CLIENT/KLIENT	Khai-MA LOCAL MUNICIPALITY
DRAWING DESCRIPTION/TEKENING BESKRIVING	POLES SPECIFICATIONS DETAIL SHEET
PAPER SIZE/PAPIER GROOTTE	A1
SCALE/SKAAL	NTS
DRAWING No./TEKENING Nr.	3094/K/G/D/001
REV No.	--

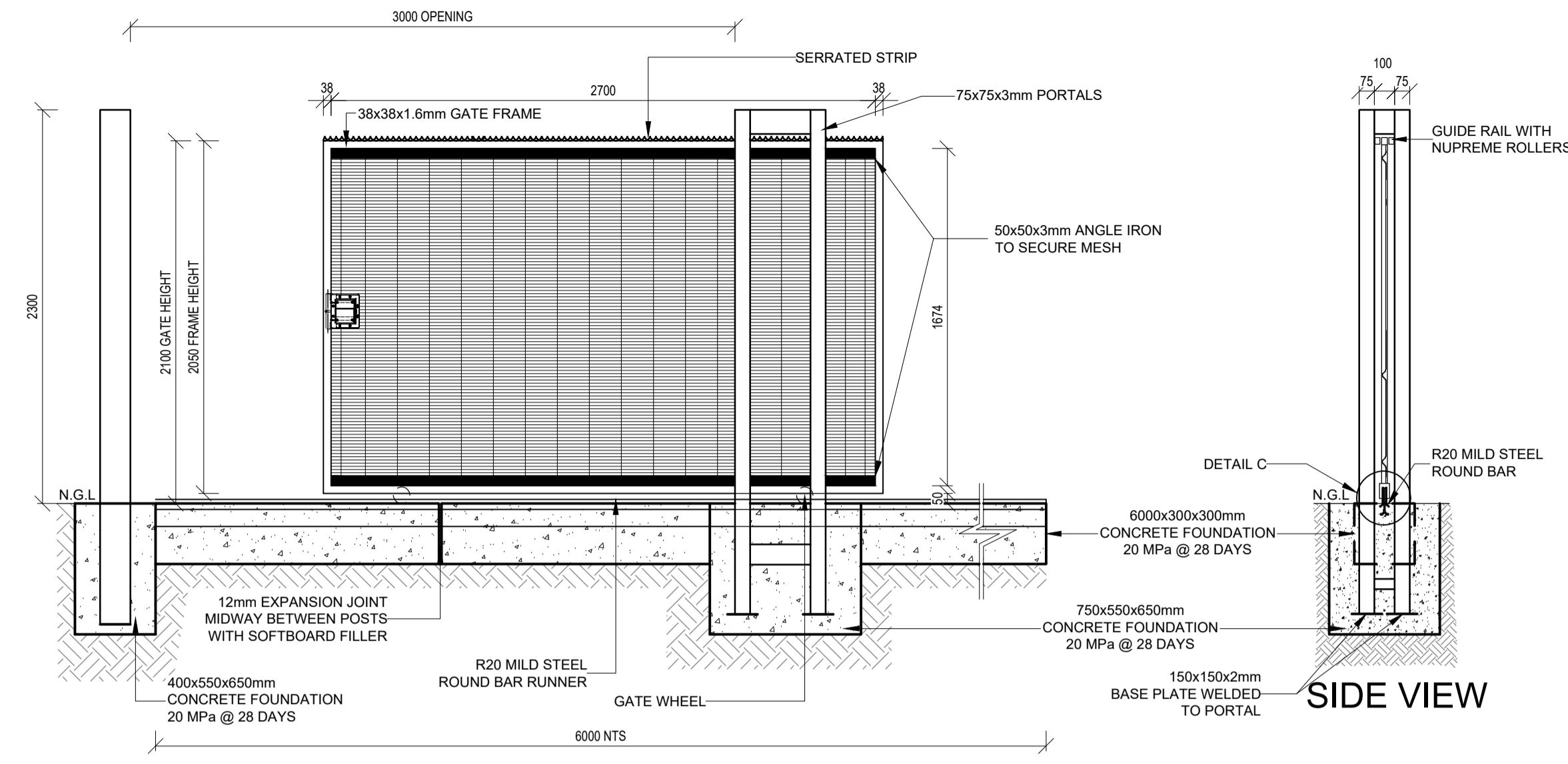
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EXTERIOR ELEVATION

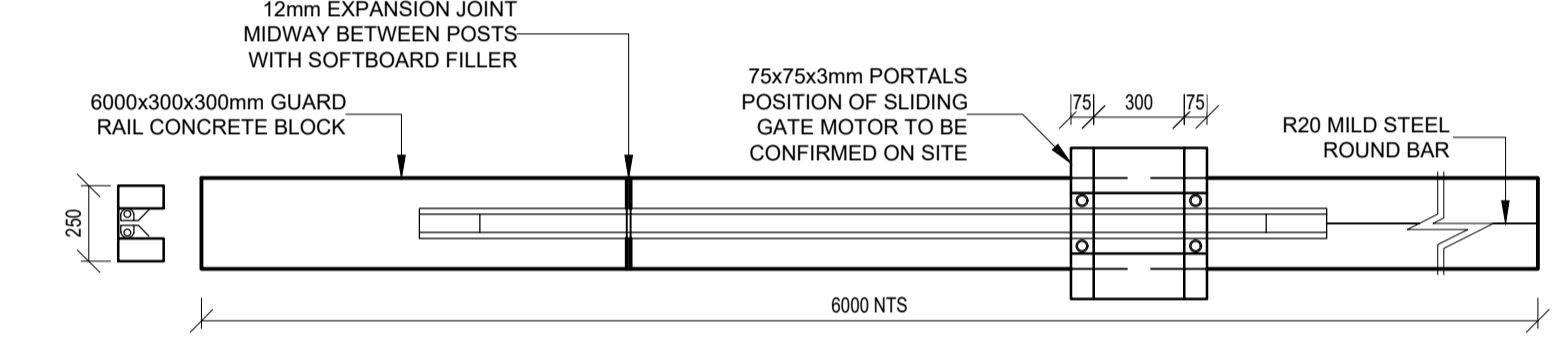


SECTION VIEW

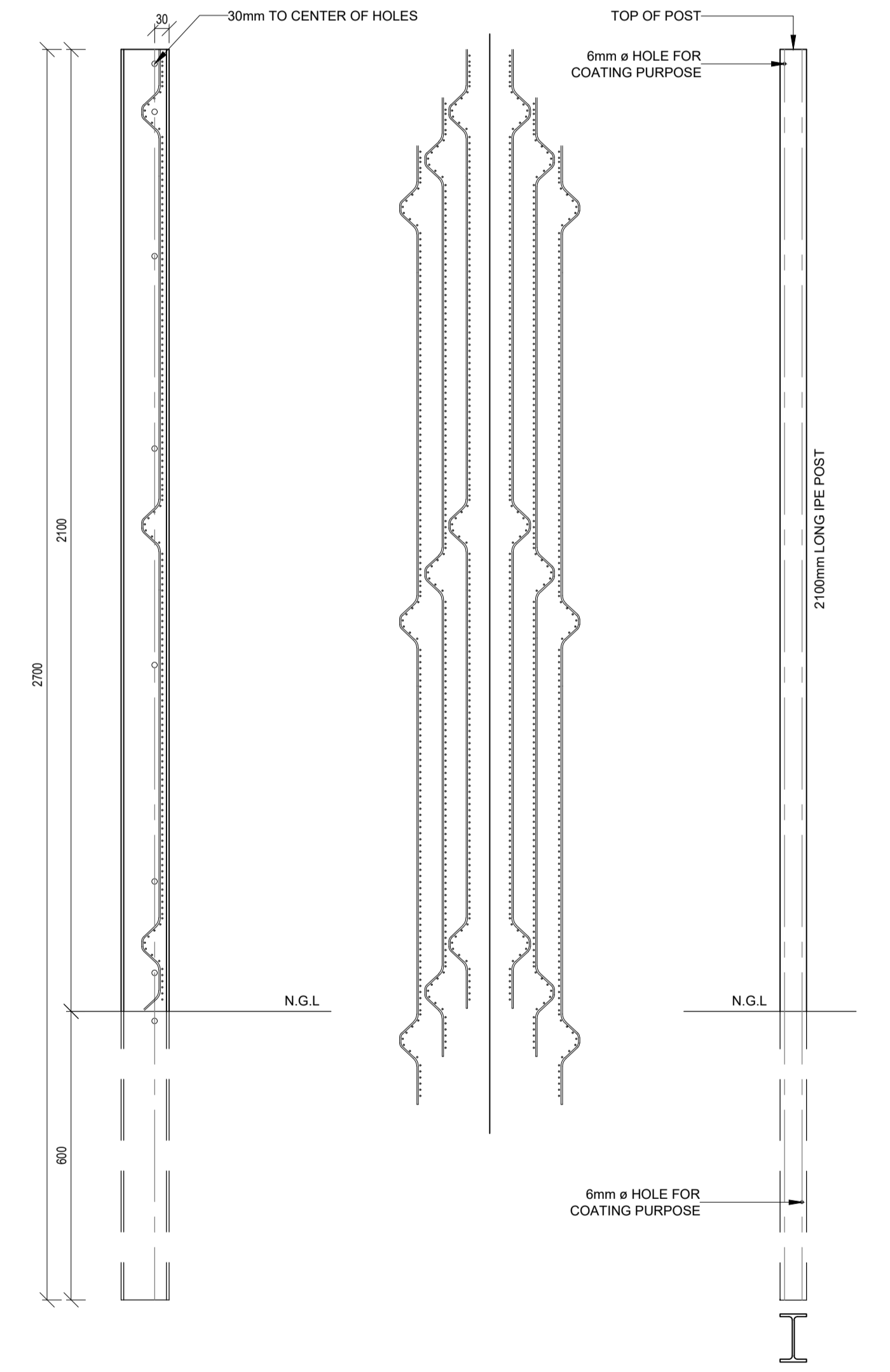


SLIDING GATE - SINGLE SLIDE SECTION VIEW
SCALE NTS

FENCE LAYOUT
SCALE NTS

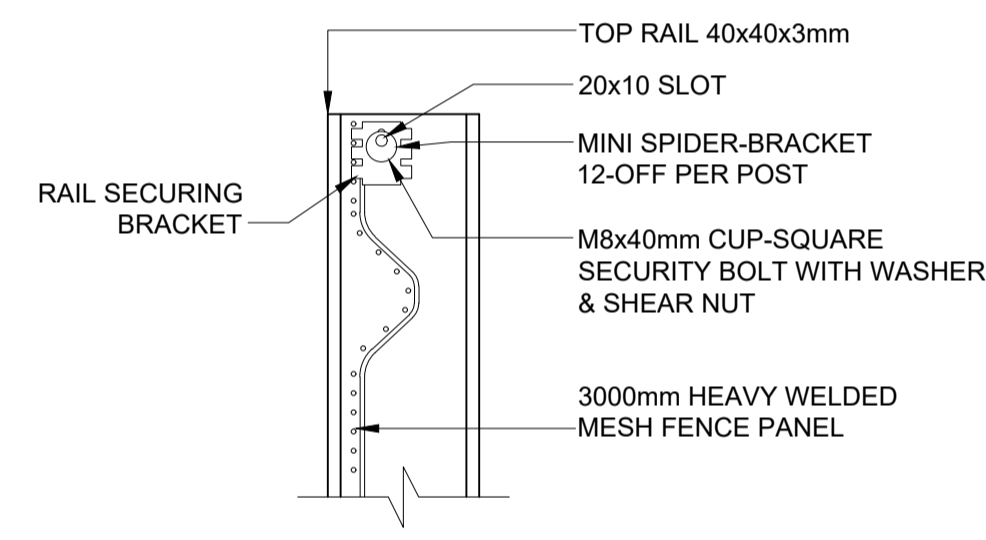
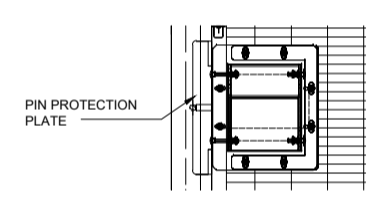


SLIDING GATE - SINGLE SLIDE PLAN VIEW
SCALE 1:25

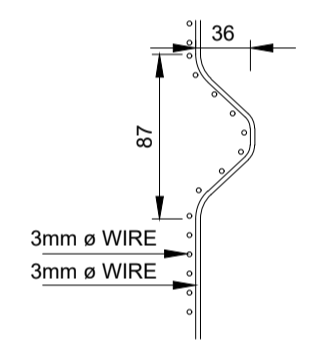


FRONT VIEW
SIDE VIEW
IPE POST 2.1m LONG
SCALE: NTS

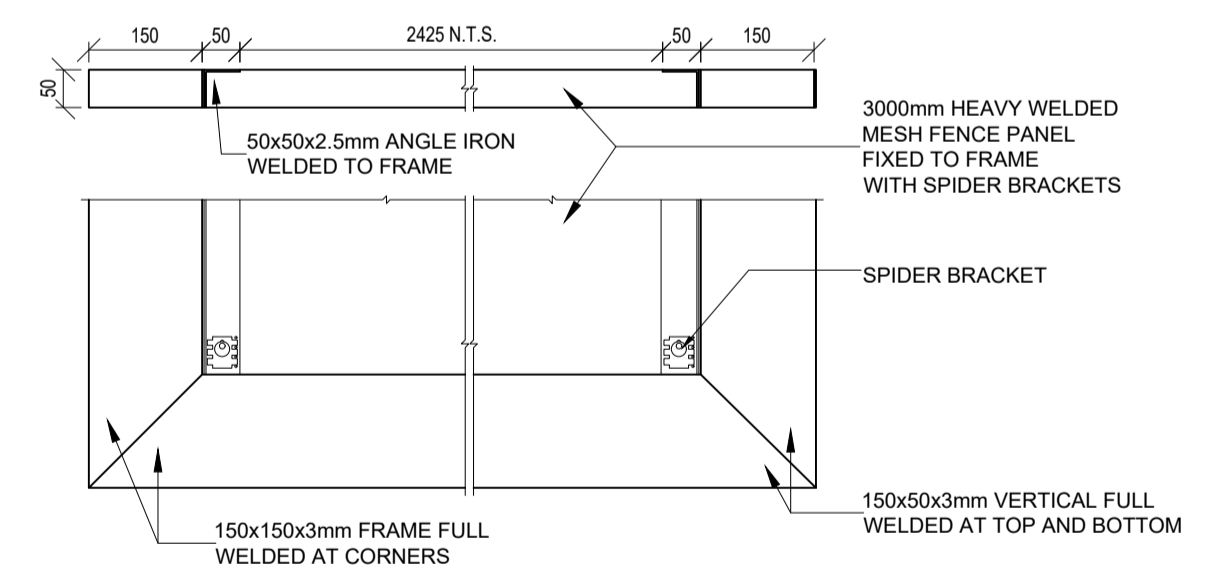
SLIDING GATE LOCK DETAIL
SCALE 1:10



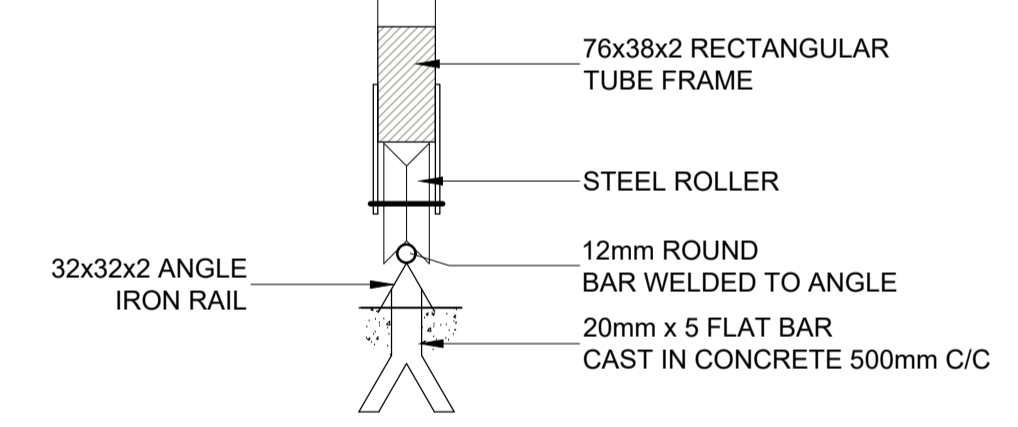
DETAIL A
SCALE 1:5



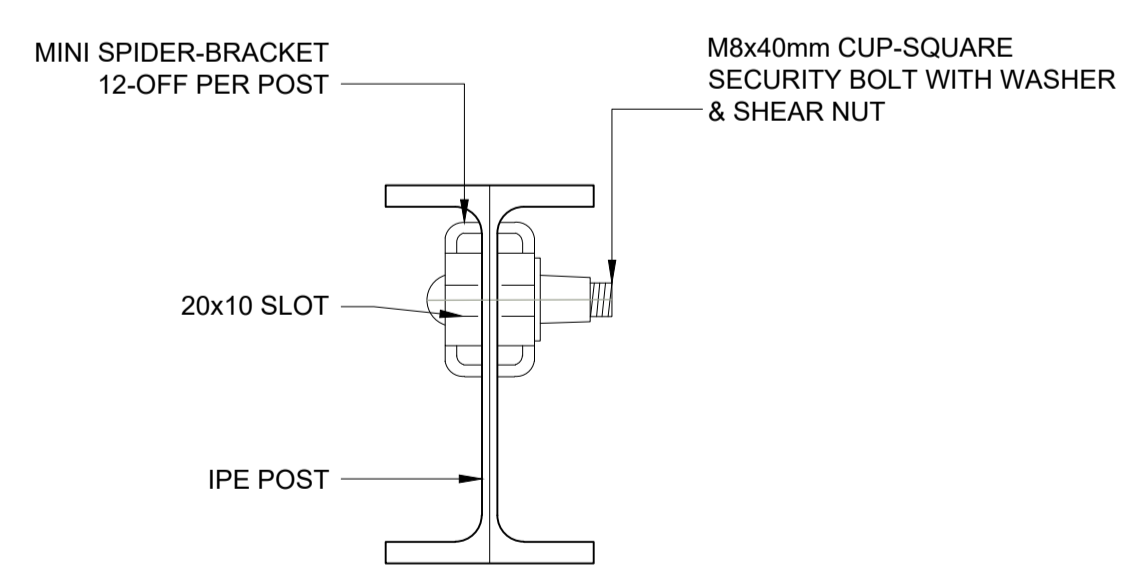
DETAIL B
SCALE 1:5



SLIDING GATE DETAIL
SCALE 1:10



DETAIL C: GUIDE RAIL
SCALE 1:5



PLAN (ASSEMBLY)
SCALE 1:2

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PAPER SIZE/PAPIER GROOTTE A1	SCALE/SKAAL AS SHOWN	DRAWING No./TEKENING Nr. 3094/K/G/D/002
		REV No. --

LEGEND			
	EX. 2000x2000x500mm THICK 30MPa R.C. COLUMN BASE	(A)	IFE 200 (22.4 kg/m)
	EX. 4000x3000x500mm THICK 30MPa R.C. BASE	(B)	PPC 180x70mm (21.1 kg/m)
	EX. 2000x2000x500mm THICK 10MPa M.C. COLUMN BASE	(C)	SHS 75x75x2.5mm (6.7 kg/m)
	EX. 4000x3000x500mm THICK 10MPa M.C. BASE	(D)	SHS 100x100x2.5mm (7.68 kg/m)

NOTE:
ALL STRUCTURAL STEEL TO BE ALL-ROUND 6mm FILLET WELD, UNLESS STATED OTHERWISE.

GENERAL NOTES:

- FOUNDATIONS:
 - 1.1 DEPTHS OF ALL BASES AND STRIPFOOTINGS SHALL BE DETERMINED AND APPROVED ON SITE BY THE ENGINEER IN WRITING PRIOR TO CONCRETING.
 - 1.2 ALL COLUMN BASES SHALL BE CAST ON A BLINDING LAYER OF AT LEAST 50mm AND NOT MORE THAN 250mm THICK.
 - 1.3 SAFE BEARING CAPACITY OF GROUND 100kPa.
- CONCRETE:
 - 2.1 PRESCRIBED MIX 10/19 IN BLINDING LAYERS.
 - 2.2 PRESCRIBED MIX 20/19 IN WALL STRIPFOOTINGS.
 - 2.3 STRENGTH MIX CONCRETE:
 - 2.3.1 CLASS 30/19 IN BASES, COLUMNS AND FLOOR SLABS.
 - 2.3.2 CLASS 30/19 IN BEAMS, SLABS AND WALLS.
 - 2.4 COVER TO REINFORCEMENT (UNLESS OTHERWISE STATED), INCLUDING LINKS, SHALL BE:
 - 2.4.1 COLUMN BASES: 50mm
 - 2.4.2 TO LONGITUDINAL BARS IN COLUMNS: 40mm
 - 2.4.3 TO LONGITUDINAL BARS IN BEAMS (OR DIAMETER OF THICKEST BAR): 25mm
 - 2.4.4 SLABS, WALLS AND RIBS (OR DIAMETER OF THICKEST BAR): 20mm
 - 2.4.5 CONCRETE EXPOSED TO WEATHER: 50mm
 - 2.4.6 ALL OTHER REINFORCED CONCRETE WORK: 20mm
 - 2.5 ALL REINFORCED CONCRETE WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST ISSUES OF SANS-10100 AND SANS-2001-CC1 WITH DEGREE OF ACCURACY II AND STANDARD DEPARTEMENTAL SPECIFICATIONS.
 - 2.6 ALL EXPOSED CONCRETE EDGES TO HAVE A 20mm CHAMFER
 - 2.7 NO CONCRETE MAY BE CAST WITHOUT THE PRIOR WRITTEN APPROVAL OF THE EXCAVATIONS AND REINFORCEMENT BY THE ENGINEER.

- 2.8 REINFORCEMENT MUST BE SECURELY FIXED IN THE CORRECT POSITIONS SUCH THAT DISPLACEMENT DOES NOT OCCUR DURING CASTING OF CONCRETE. IF ANY CONCRETE BLOCKS ARE USED AS SPACERS, THEY MUST BE OF AT LEAST THE STRENGTH AND DENSITY OF THE CONCRETE.
- 2.9 ALL CONCRETE, UNLESS OTHERWISE SPECIFIED, MUST BE COMPACTED TO SUB-CLAUSE 4.7.11 OF SANS 2001 - CC1.
- 2.10 CONSTRUCTION JOINT POSITIONS TO BE APPROVED BY THE ENGINEER PRIOR TO CASTING.
- 2.11 WRITTEN PRIOR APPROVAL MUST BE OBTAINED FROM THE ENGINEER TO USE READY MIX CONCRETE, TO USE ADMIXTURES OR TO USE ANY CEMENT OTHER THAN PORTLAND CEMENT.
- 2.12 BUILDING TOLERANCES WITH RESPECT TO CONCRETE WORK TO BE IN ACCORDANCE WITH SANS 2001 - CC1 (SUB-CLAUSE 4.7) WITH GRADE II DEGREE OF ACCURACY, UNLESS OTHERWISE SHOWN.
- 2.13 FINISHES TO EXPOSED CONCRETE TO BE "SMOOTH" (SANS 2001 - CC1, PAR. 4.7).
- 2.14 NO BRICKWORK MAY BE BUILT ON PROPPED CONCRETE.
- 2.15 CONCRETE MUST BE CURED FOR AT LEAST 7 (SEVEN) DAYS BY PREVENTING THE EVAPORATION OF MOISTURE FROM THE CONCRETE WITH AN APPROVED METHOD.

3. REINFORCEMENT:

- 3.1 ALL REINFORCEMENT STEEL SHALL BE WIRE-BRUSHED AND KEPT CLEAN AND FREE OF ANY MILL-SCALE, RUST, OIL OR ANY OTHER DELETERIOUS COMPOUNDS.
- 3.2 WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.
- 3.3 ALL REINFORCING STEEL, FIXED IN POSITION ON SITE SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONCRETING.

3.4 LEGEND FOR POSITION OF REINFORCEMENT:

- T1 : HIGHEST OF THE TOP LAYERS
 T2 : SECOND HIGHEST OF THE TOP LAYERS
 B1 : LOWEST OF THE BOTTOM LAYERS
 B2 : SECOND LOWEST OF THE BOTTOM LAYERS
 NFI : NEAR FACE INNER
 NFO : NEAR FACE OUTER
 FFI : FAR FACE INNER
 FFO : FAR FACE OUTER
 EFI : EACH FACE INNER
 EFO : EACH FACE OUTER
 T : TOP
 B : BOTTOM
 EW : EACH WAY
 EF : EACH FACE
 FF : FAR FACE
 NF : NEAR FACE
 BF : BOTH FACE
 ABR : ALTERNATE BARS REVERSED
 ALT : ALTERNATIVE
 STG : STAGGERED
 TOG : TOGETHER

- 3.5 STEEL REINFORCEMENT TO COMPLY WITH SANS 920. MILD STEEL BARS SHALL BE PLAIN AND HIGH TENSILE BARS DEFORMED.
- 3.6 MILD SEEL BARS ARE IDENTIFIED BY A CAPITAL "R" AND HIGH TENSILE STEEL BARS BY A CAPITAL "Y" PREFIXED TO THE DIAMETER.
- 3.7 BENDING DIMENSIONS SHALL BE IN ACCORDANCE WITH SANS 282.
- 3.8 ALL BARS SHALL BE BEND COLD.
- 3.9 WELDING SHALL NOT BE PERMITTED FOR MILD STEEL OR HIGH TENSILE STEEL BARS.
- 3.10 RADIUS OF ALL BENDS ARE STANDARD UNLESS "Y" GIVEN ON THE BENDING SCHEDULE.
- 3.11 DIMENSIONS ALL EXTERNAL (ALSO STIRRUPS).
- 3.12 CODES 60, 72 AND 74 MUST HAVE EQUAL HOOKS.
- 3.13 USE SHAPE CODE 99 FOR ALL OTHER SHAPES AND GIVE A DIMENSIONED SKETCH OF THE BAR ON THE BENDING SCHEDULE.

4. FORMWORK:

- 4.1 FORMWORK SHALL BE ERECTED AND FIXED IN AN APPROVED MANNER AND SHALL BE INSPECTED BY THE ENGINEER PRIOR TO CONCRETING.
- 4.2 STRIPPING TIMES OF THE FORMWORK SHALL BE TO THE ENGINEERS SITE INSTRUCTIONS.
- 4.3 APPROVAL OF FORMWORK BY THE ENGINEER SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR CARE OF THE WORKS.
- 4.4 FORMWORK TO BE RIGIDLY CONSTRUCTED TO THE EXACT DIMENSIONS OF CONCRETE MEMBERS UNLESS OTHERWISE SHOWN.

5. STRUCTURAL STEELWORK

- 5.1 DESIGN
 - 5.1.1 ALL STRUCTURAL STEEL GRADE S355JR ACCORDING TO SANS 50025 / EN 10025.
 - 5.1.2 MEMBERS ARE DESIGNED TO THE REQUIREMENTS OF SANS 10162 (LATEST EDITION), AND ALL REFERENCED DESIGN CODES.
 - 5.1.3 STEELWORK GENERALLY OF WELDED CONSTRUCTION WITH SITE CONNECTIONS BOLTED:
 - ALL HOLES 18mm DIA. FOR M16 BOLTS.....U.O.S.
 - ALL BOLTS NUTS AND WASHERS TO BE GRADE 8.8.....U.O.S.
 - ALL GUSSETS EX 6 PLATES.....U.O.S.
 - ALL WELDS TO BE CONTINUOUS FILLET WELDS 6mm NOT EXCEEDING 0.7 TIMES THE THINNER MATERIAL THICKNESS WELDED TO.....U.O.S.
 - 5.1.4 FRICTION TYPE CONNECTIONS:
 - 5.1.4.1 FRICTION GRIP BOLTS TO BE GRADE 10.9S WHERE SPECIFIED.
 - 5.1.4.2 NUTS FOR FRICTION GRIP BOLTS TO BE GRADE 10S ONLY.
 - 5.1.4.3 FRICTION TO BE OBTAINED BY TURNING THE NUT AND NOT THE BOLT.
 - 5.1.4.4 FRICTION GRIP SURFACES TO BE PRE-PAINTED WITH INORGANIC ZINC ONLY.
 - 5.2 FABRICATION AND ERECTION:
 - 5.2.1 ALL STEELWORK SHALL BE SUPPLIED, FABRICATED, DELIVERED AND ERECTED IN ACCORDANCE WITH SABS 1200H AND SANS 10162, AMENDED AS FOLLOWS:
 - 5.2.1.1 CONTRACTOR PROVIDES WORKSHOP DRAWINGS

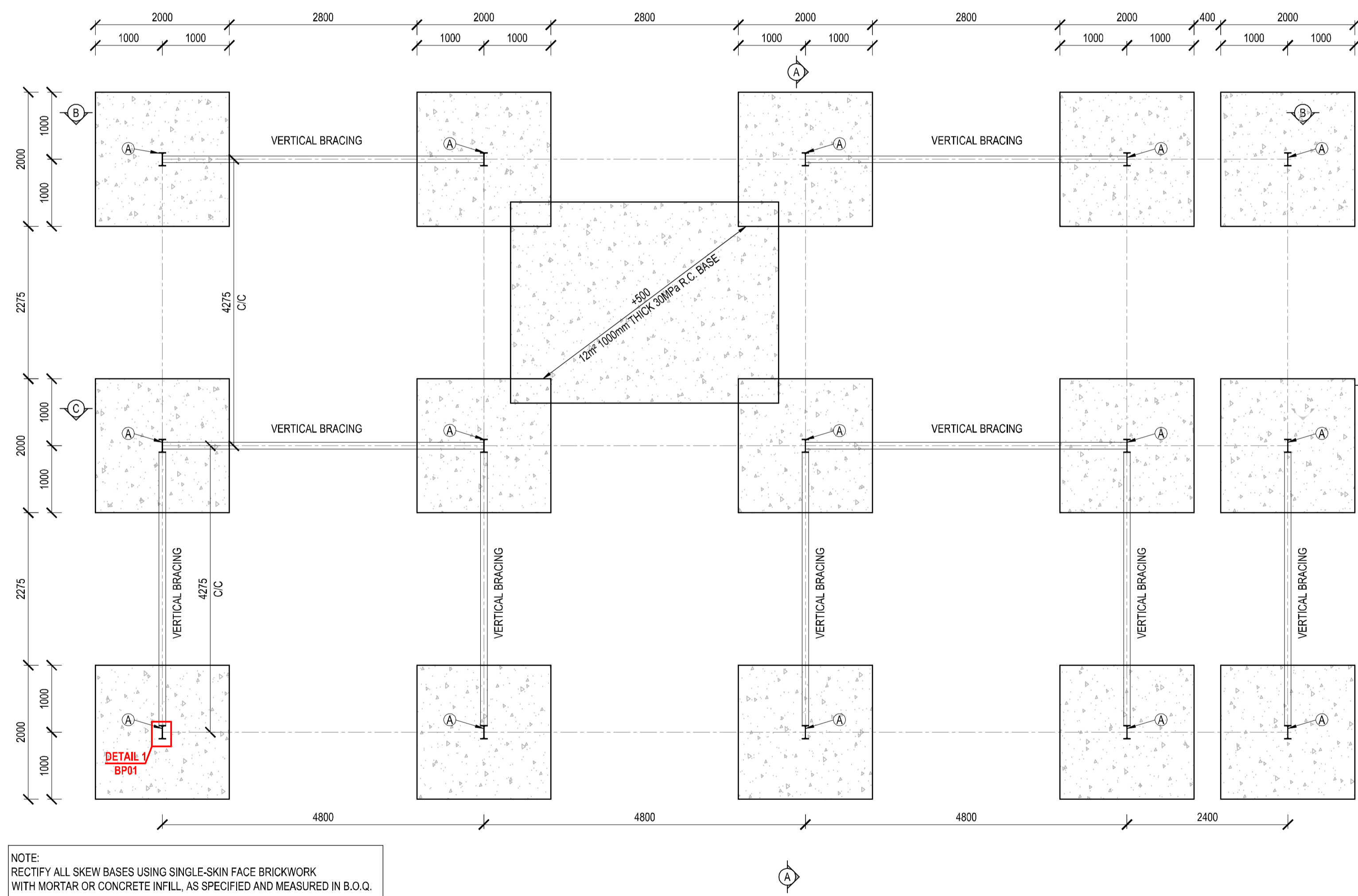
- 5.2.2 STEEL FABRICATION MAY NOT COMMENCE PRIOR TO APPROVAL OF WORKSHOP DRAWINGS BY ENGINEER.
- 5.2.3 MINIMUM EDGE DISTANCE TO BOLTS TO BE 1.75 TIMES BOLT DIAMETER U.O.S.
- 5.2.4 MINIMUM BOLT SPACING TO BE 2.7 TIMES BOLT DIAMETER U.O.S.
- 5.2.5 SITE WELDING SHALL NOT BE PERMITTED WITHOUT THE ENGINEERS APPROVAL.
- 5.2.6 CUTTING OF STEELWORK SHALL ONLY BE DONE BY A MACHINE SAW-CUT PROCESS. THE USE OF OXY-ACETYLENE OR ANY OTHER HAND FLAME CUTTING PROCESS SHALL NOT BE PERMITTED. ALL EDGES OF CUT STEELWORK SHALL BE NEATLY "DRESSED" TO A CLEAN FINISH BY THE REMOVAL OF BURNS AND SHARP EDGES.
- 5.2.7 FLAME CUTTING OF HOLES WILL NOT BE PERMITTED.
- 5.2.8 STRUCTURAL STEEL TO BE INSPECTED IN WORKSHOP BY ENGINEER. CONTRACTOR SHALL NOTIFY ENGINEER OF INSPECTION.
- 5.2.9 ERECTION PROCEDURE: SABS 1200H, CLAUSE 5.5.1 AMENDED AS FOLLOWS: BEFORE COMMENCING ERECTION OF STEELWORK ON SITE, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, FOR HIS GENERAL SCRUTINY AND INFORMATION, FULL DETAILS OF THE ERECTION PROCEDURE AND METHODS OF ERECTION. CONTRACTOR TO ENSURE THE STABILITY AND SAFE ERECTION OF THE STRUCTURE, AND TO PROVIDE ALL NECESSARY BRACING TO ENABLE HIM TO DO SO. SUCH BRACING TO BE INDICATED ON THE ERECTION GENERAL ARRANGEMENT DRAWINGS.
- 5.2.10 PURLINS TO SPAN ACROSS TWO SPANS CONTINUOUSLY MINIMUM, AND ALL PURLIN SPLICES TO BE STAGGERED.
- 5.3 CORROSION PROTECTION:
 - 5.3.1 PAINTWORK IN WORKSHOP:
 - A RED LEAD UNDER-COAT ACCORDING TO SABS 312 TYPE II GRADE II SHALL BE APPLIED TO A FINAL THICKNESS OF 25 MICRON.
 - 5.3.2 PAINTWORK AFTER ERECTION:
 - AN INTERIM LAYER WHICH IS SATISFIABLE TO SANS 681 TYPE I SHALL BE APPLIED TO A FINAL THICKNESS OF 25 MICRON.
 - FINAL FINISHING LAYER:
 - A FINAL ENAMEL LAYER ACCORDING TO SANS 630 GRADE I SHALL BE APPLIED WITHIN 24 HOURS AFTER INTERIM LAYER HAS BEEN APPLIED, TO A FINAL THICKNESS OF 25 MICRON (COLOUR AS INSTRUCTED).

6. BRICKWORK:

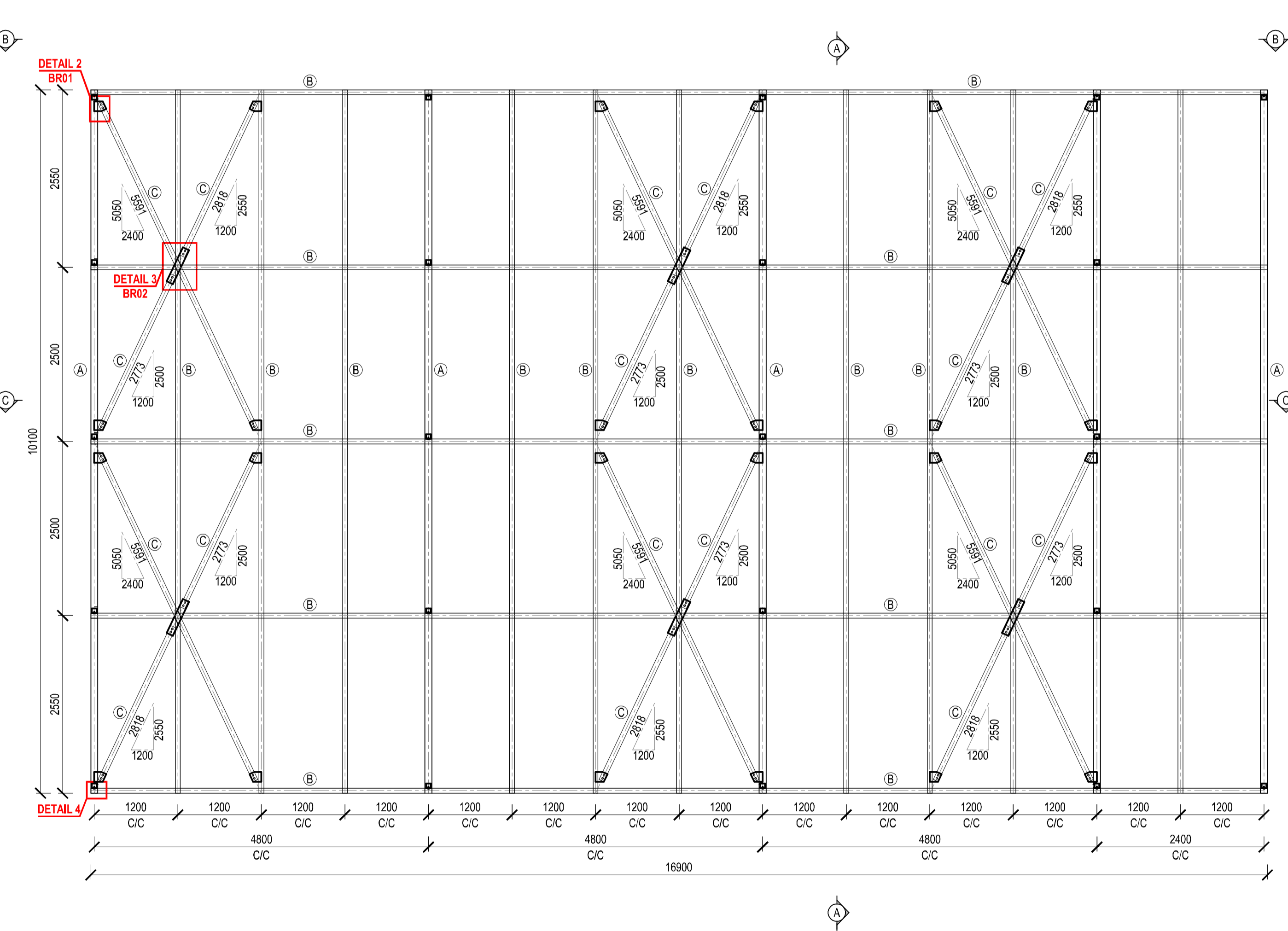
- 6.1 FIX WALL TIES TO CONCRETE COLUMNS AND BUILD INTO BRICK WALLS BETWEEN EVERY 5th BRICK COURSE.
- 6.2 THE GAP BETWEEN TOP OF BRICK WALLS AND THE UNDERSIDE OF RING BEAMS AND SLABS TO BE CAULKED TO THE SATISFACTION OF THE ENGINEER.

7. LOADBEARING BRICKWORK:

- 7.1 ALL LOADBEARING BRICKWORK TO BE CARRIED OUT IN ACCORDANCE WITH THE RELATIVE SANS WITH:
 - 7.1.1 CRUSHING STRENGTH OF BRICKS: 14MPa
 - 7.1.2 MORTAR : CLASS I
 - 7.1.3 BRICKFORCE : EVERY 5TH COURSE.....U.O.S.
- 7.2 TWO LAYERS GALVANIZED SHEETING (MIN 2mm THICK) WITH LUBRICANT IN BETWEEN (MOLUB ALLOY 777-2 NG) TO BE PLACED BETWEEN ALL BRICKWORK AND REINFORCED CONCRETE.
8. STRUCTURAL TIMBER:
 - 8.1 ALL TIMBERWORK MUST CONFORM TO THE LATEST ISSUES OF SANS 1783 AS APPLICABLE.
9. GENERAL:
 - 9.1 READ THIS PLAN IN CONJUNCTION WITH ALL THE RELEVANT DRAWINGS.
 - 9.2 READ THIS PLAN IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS (IF APPLICABLE).
 - 9.3 ALL DIMENSIONS IN MILLIMETRES.
 - 9.4 ALL LEVELS TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK, AND THE ENGINEER MUST BE NOTIFIED IN CASE OF ANY DISCREPANCIES.
 - 9.5 ALL DIMENSIONS AND LEVELS TO EXISTING STRUCTURE BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK, AND THE ENGINEER MUST BE NOTIFIED IN CASE OF ANY DISCREPANCIES.
 - 9.6 ALL WORK MUST BE DONE IN ACCORDANCE TO SABS 1200 UNLESS OTHERWISE SPECIFIED.
 - 9.7 THE ENGINEER WILL NOT BE HELD RESPONSIBLE FOR ANY WORK THAT DEVIATES FROM THE ENGINEERS - OR APPROVED WORKSHOP DRAWINGS.



COLUMN BASE LAYOUT
SCALE 1:50



STEEL FRAME LAYOUT
SCALE 1:50

NOTE/NOTA :
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GEEN AFMETINGS MAG VAN TEKENINGE GESKAAL WORD NIE. ALLE AFMETINGS MOET OP TERREIN NAGEGAAN WORD VOOR KONSTRUKSIE.

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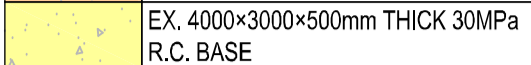
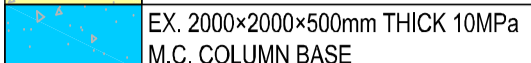
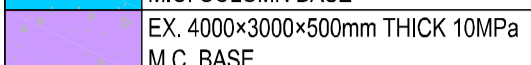
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DRAWN GETEKEN	C.P. MUNDAY
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CLIENT KLIJNT	----
DATE DATUM	MAY 2026

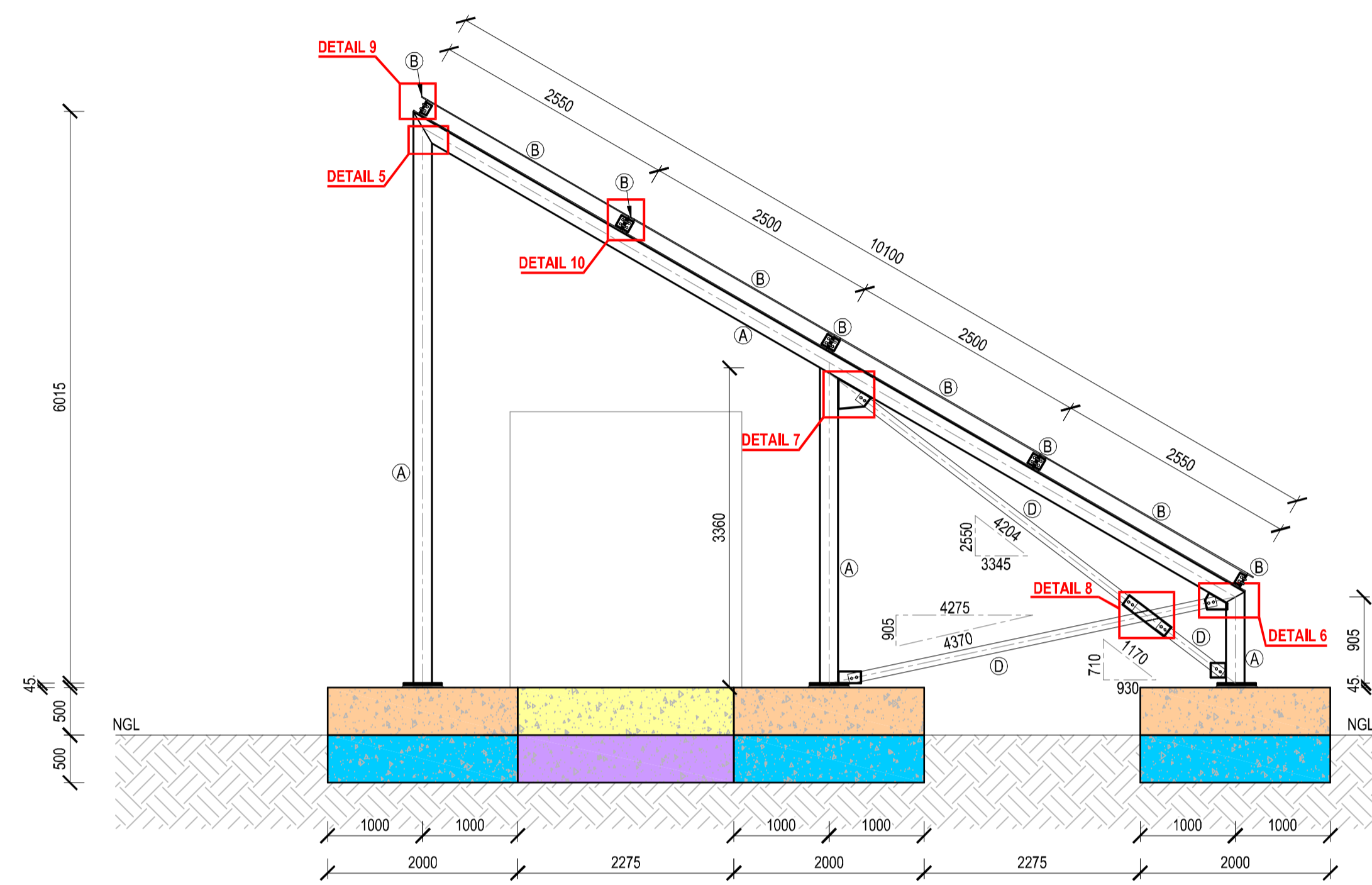
PROJECT/PROJEK
POFADDER-COMPLETION OF OUTSTANDING WORKS OF THE MICROGRID PROJECT

CLIENT/KLIJNT	Khai-MA LOCAL MUNICIPALITY		
DRAWING DESCRIPTION/TEKENING BESKRYWING	CONCRETE AND STEEL LAYOUT		
PAPER SIZE/PAPIER GROOTTE	SCALE/SKAAL	DRAWING No./TEKENING Nr.	REV No.
A1	A.S.	3094/S/S/L/001	

FOR TENDER

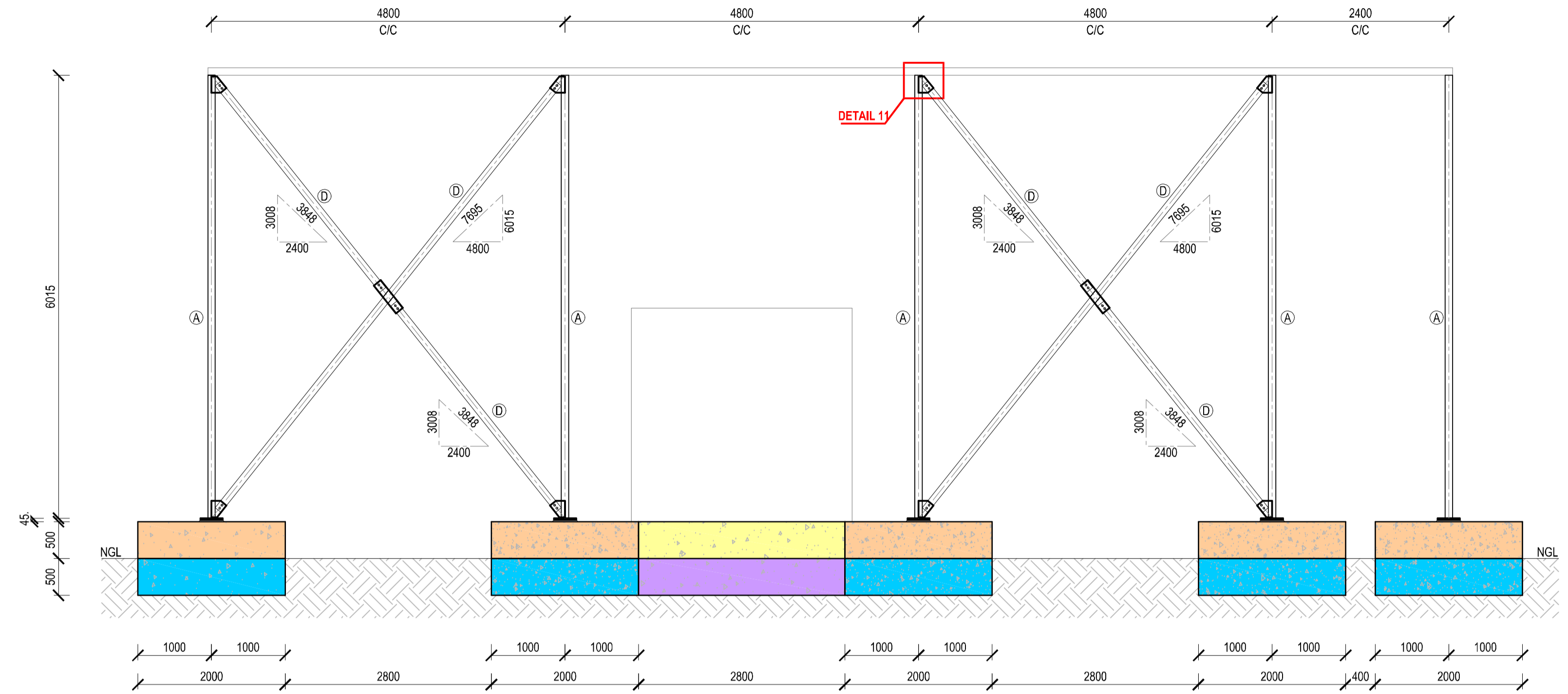
LEGEND			
	EX. 2000x2000x500mm THICK 30MPa R.C. COLUMN BASE	(A)	IPE 200 (22.4 kg/m)
	EX. 4000x3000x500mm THICK 30MPa R.C. BASE	(B)	PFC 180x70mm (21.1 kg/m)
	EX. 2000x2000x500mm THICK 10MPa M.C. COLUMN BASE	(C)	SHS 75x75x2.5mm (5.7 kg/m)
	EX. 4000x3000x500mm THICK 10MPa M.C. BASE	(D)	SHS 100x100x2.5mm (7.68 kg/m)

NOTE: ALL STRUCTURAL STEEL TO BE ALL-ROUND 6mm FILLET WELD, UNLESS STATED OTHERWISE.

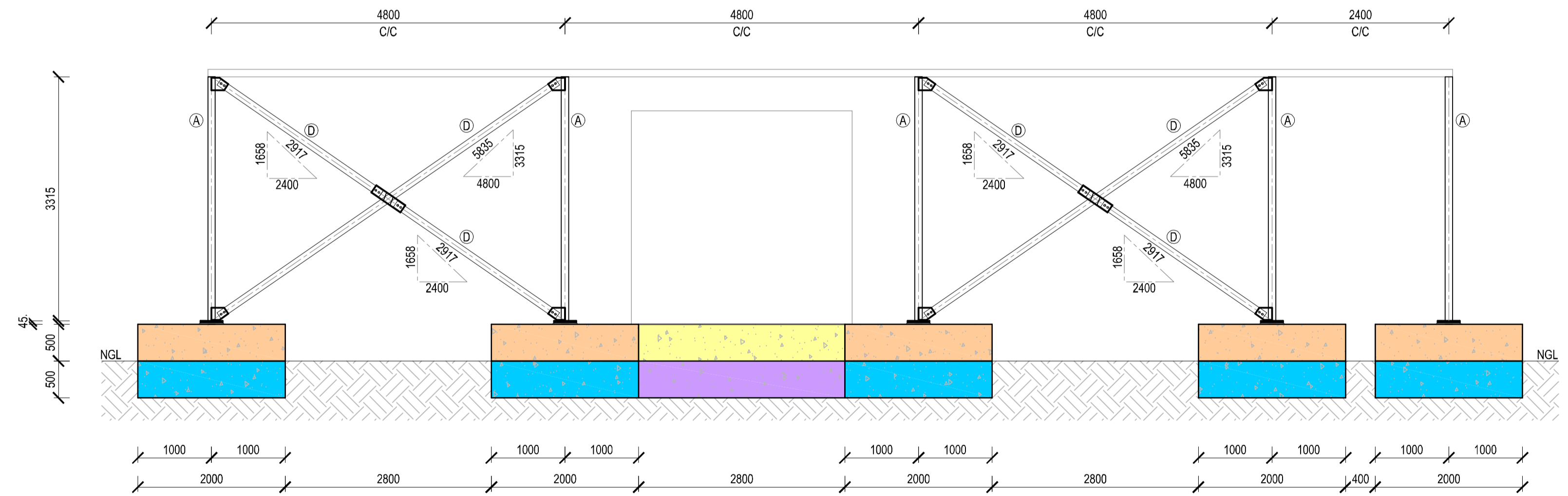


SECTION A-A
SCALE 1:50

NOTE:
RECTIFY ALL SKEW BASES USING SINGLE-SKIN FACE BRICKWORK WITH MORTAR OR CONCRETE INFILL, AS SPECIFIED AND MEASURED IN B.O.Q.



SECTION B-B
SCALE 1:50



SECTION C-C
SCALE 1:50

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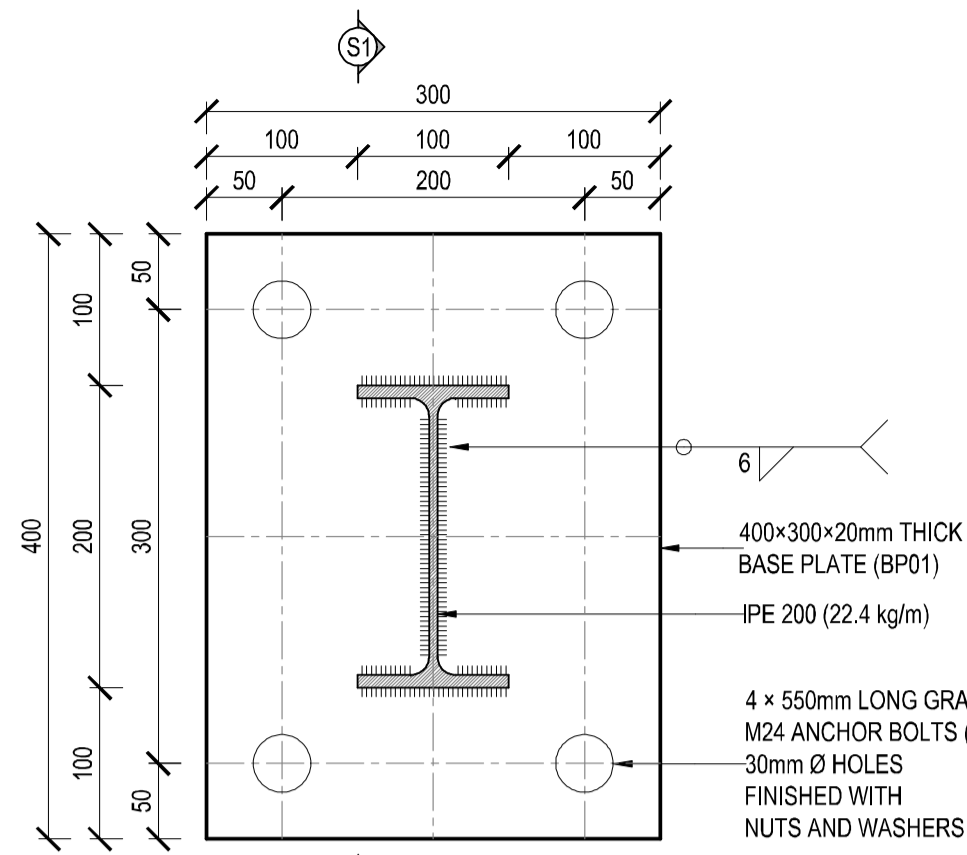
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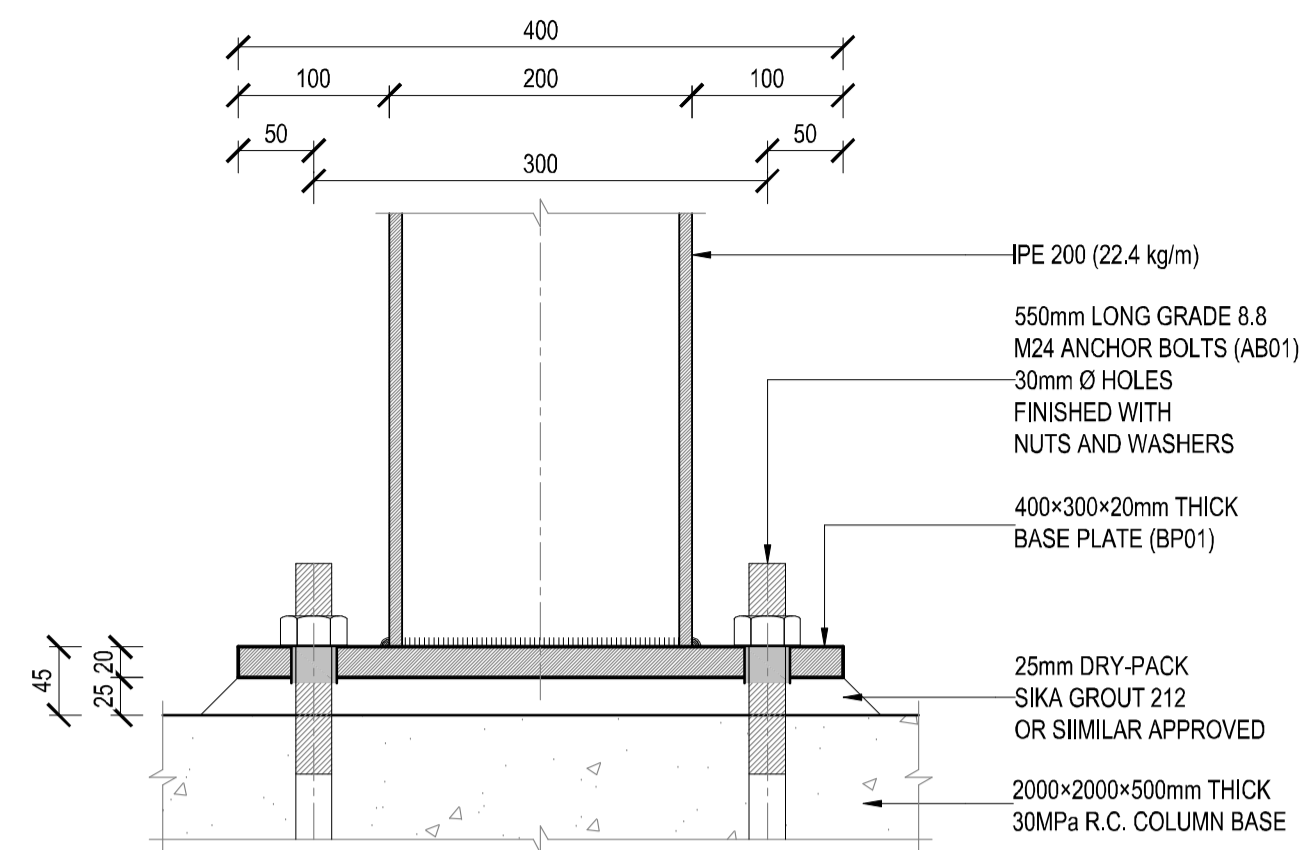
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CLIENT/KLIJNT	Khai-MA LOCAL MUNICIPALITY		
DRAWING DESCRIPTION/TEKENING BESKRYWING	SECTIONS		
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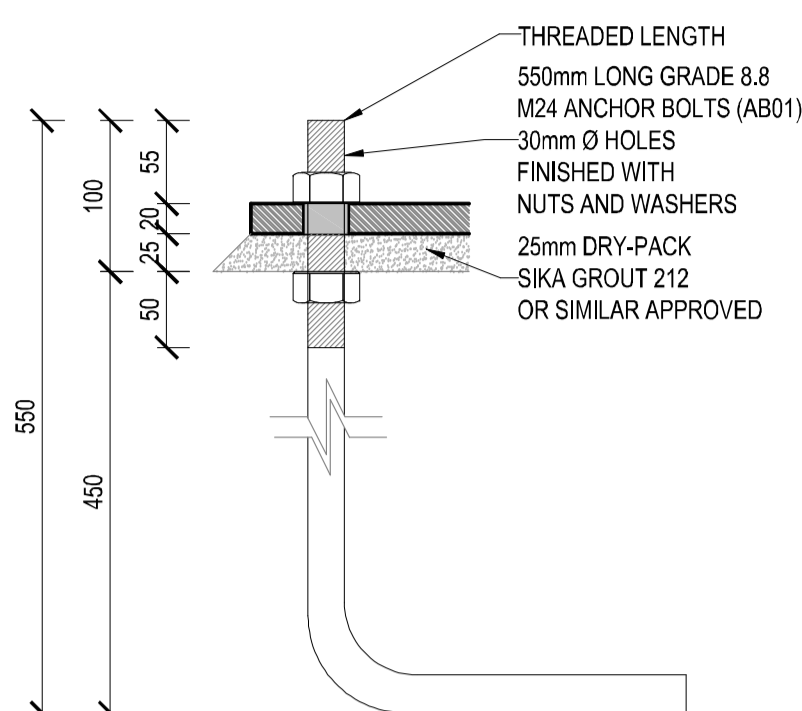
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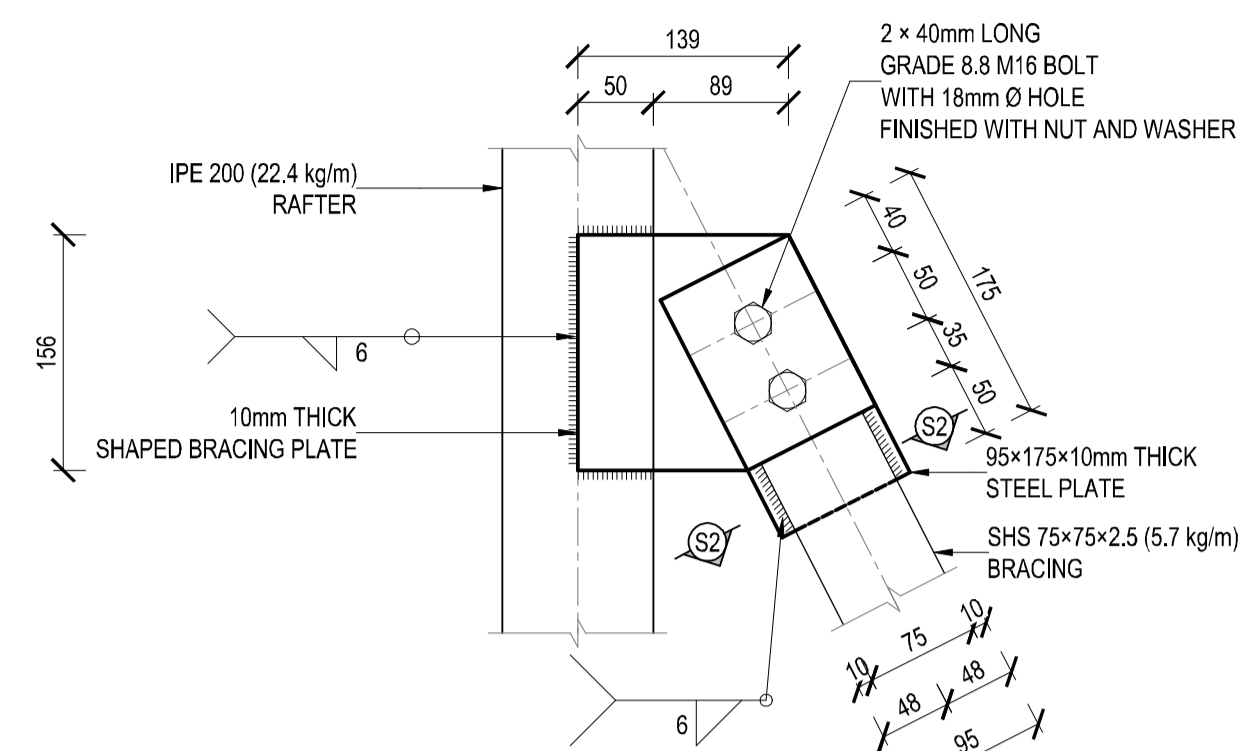
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SCALE 1:5



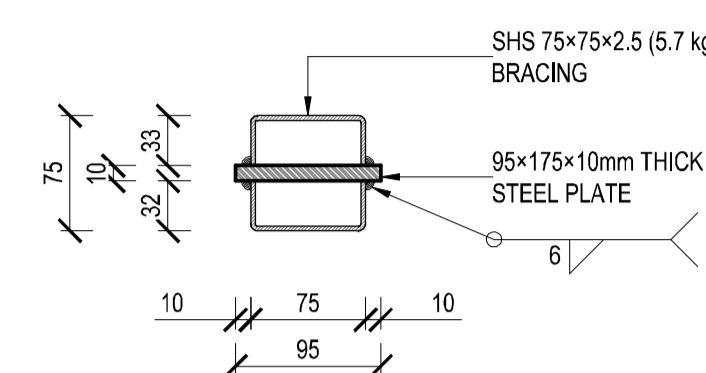
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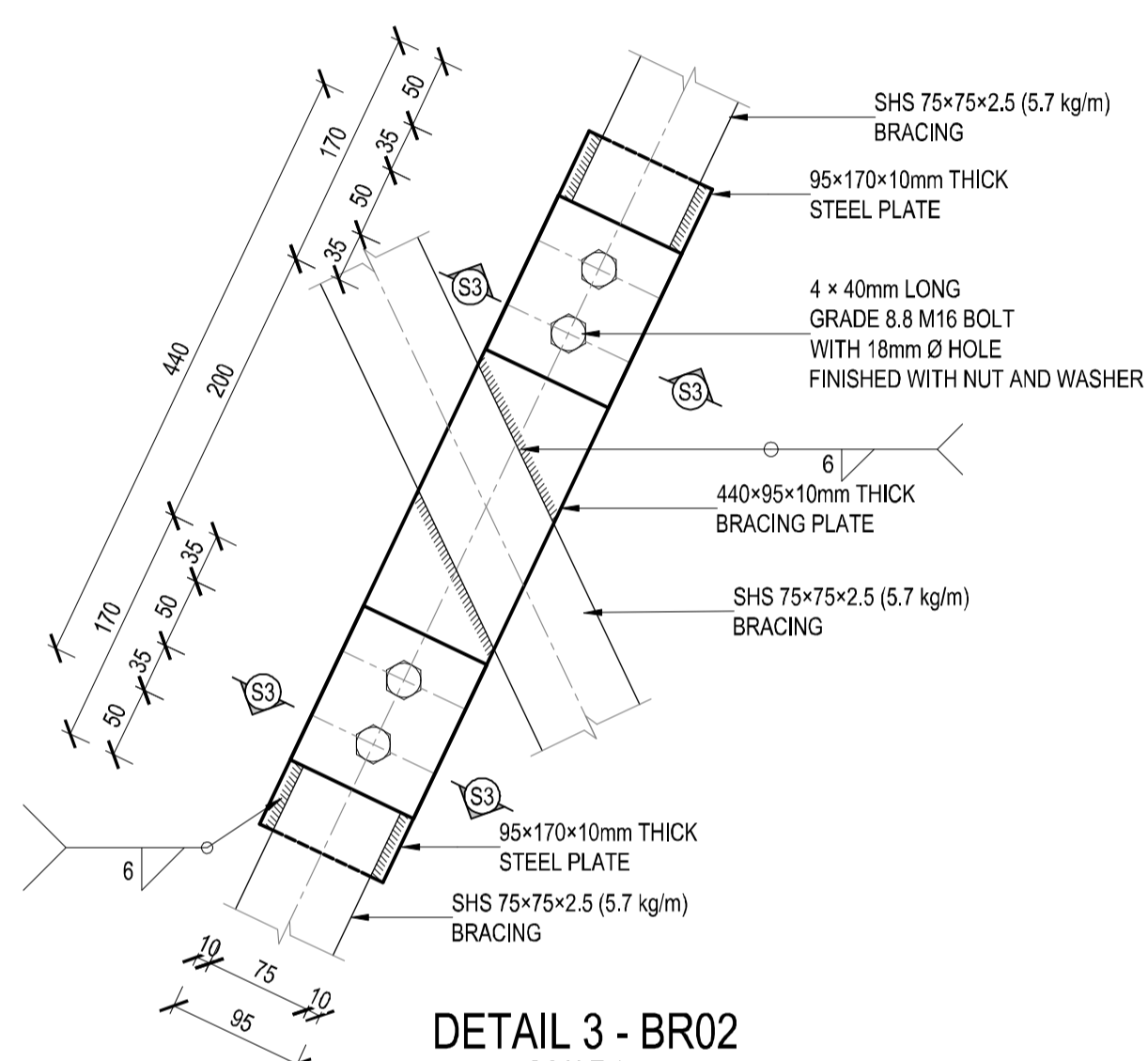
DETAIL AB01 - M24 ANCHOR BOLT
SCALE 1:5



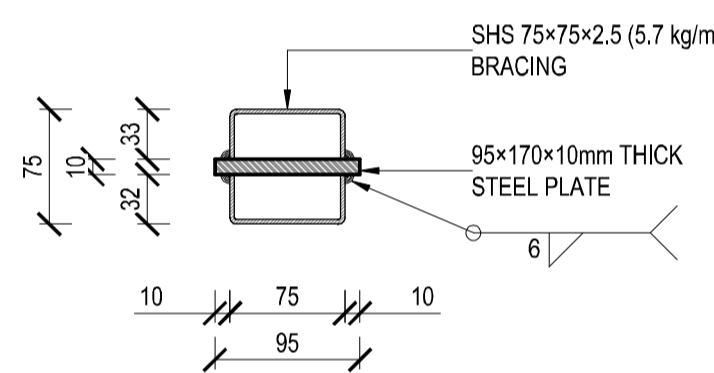
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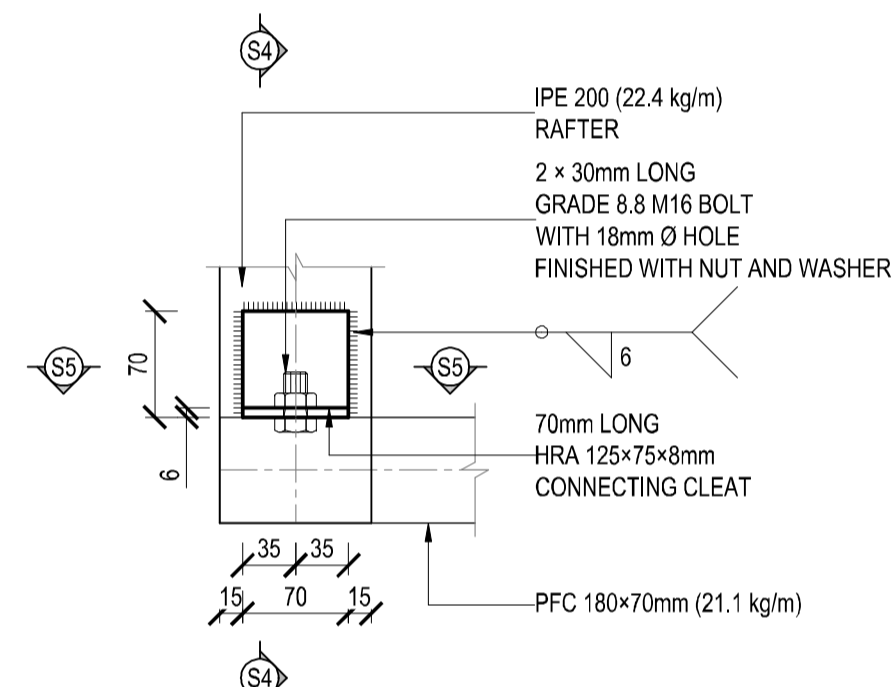
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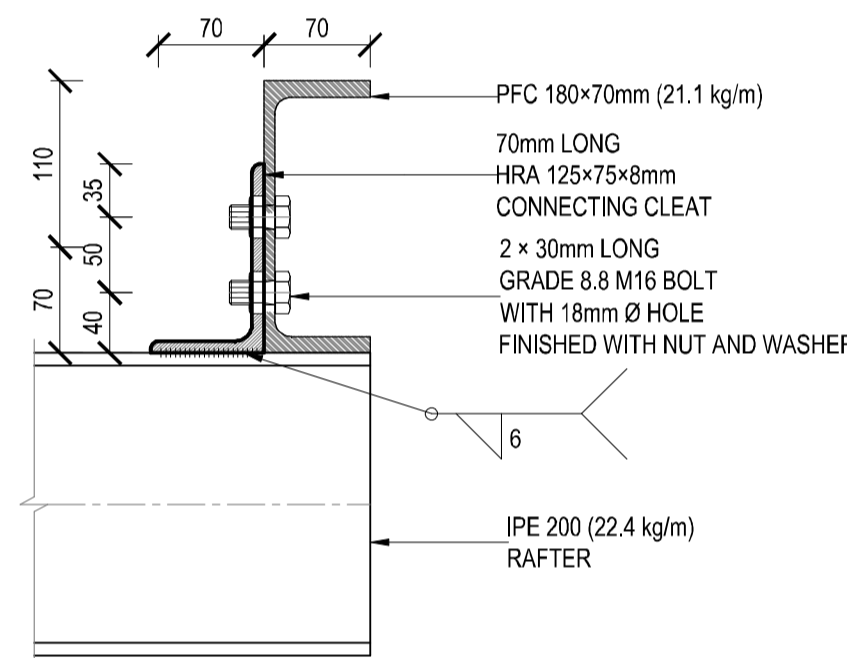
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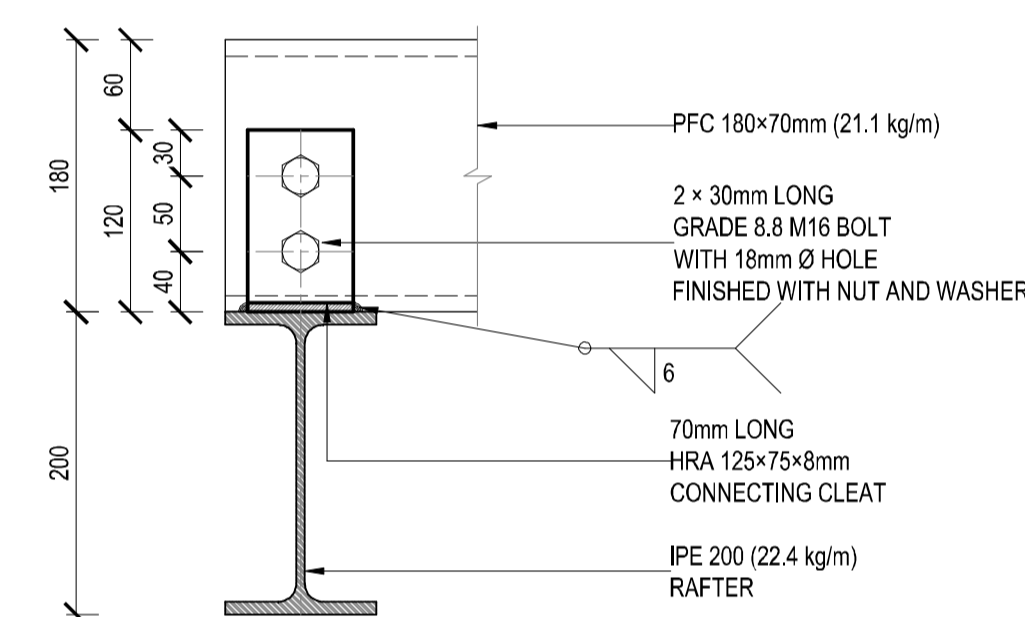
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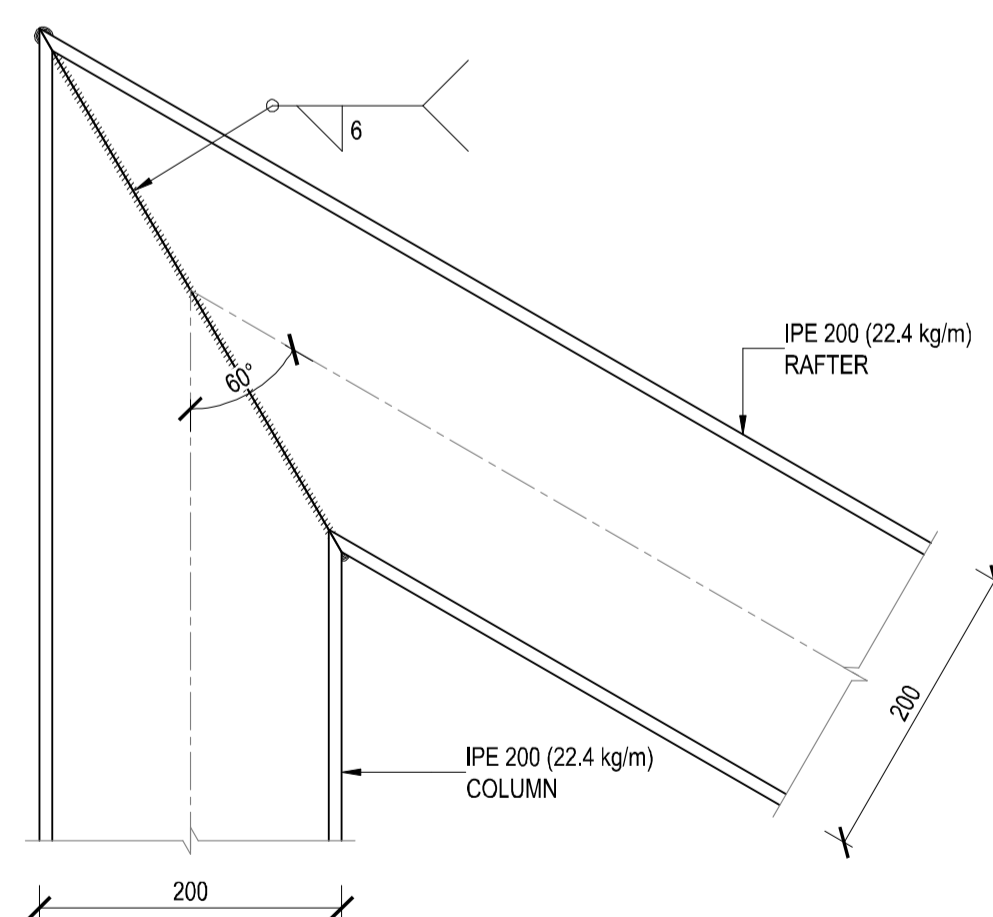
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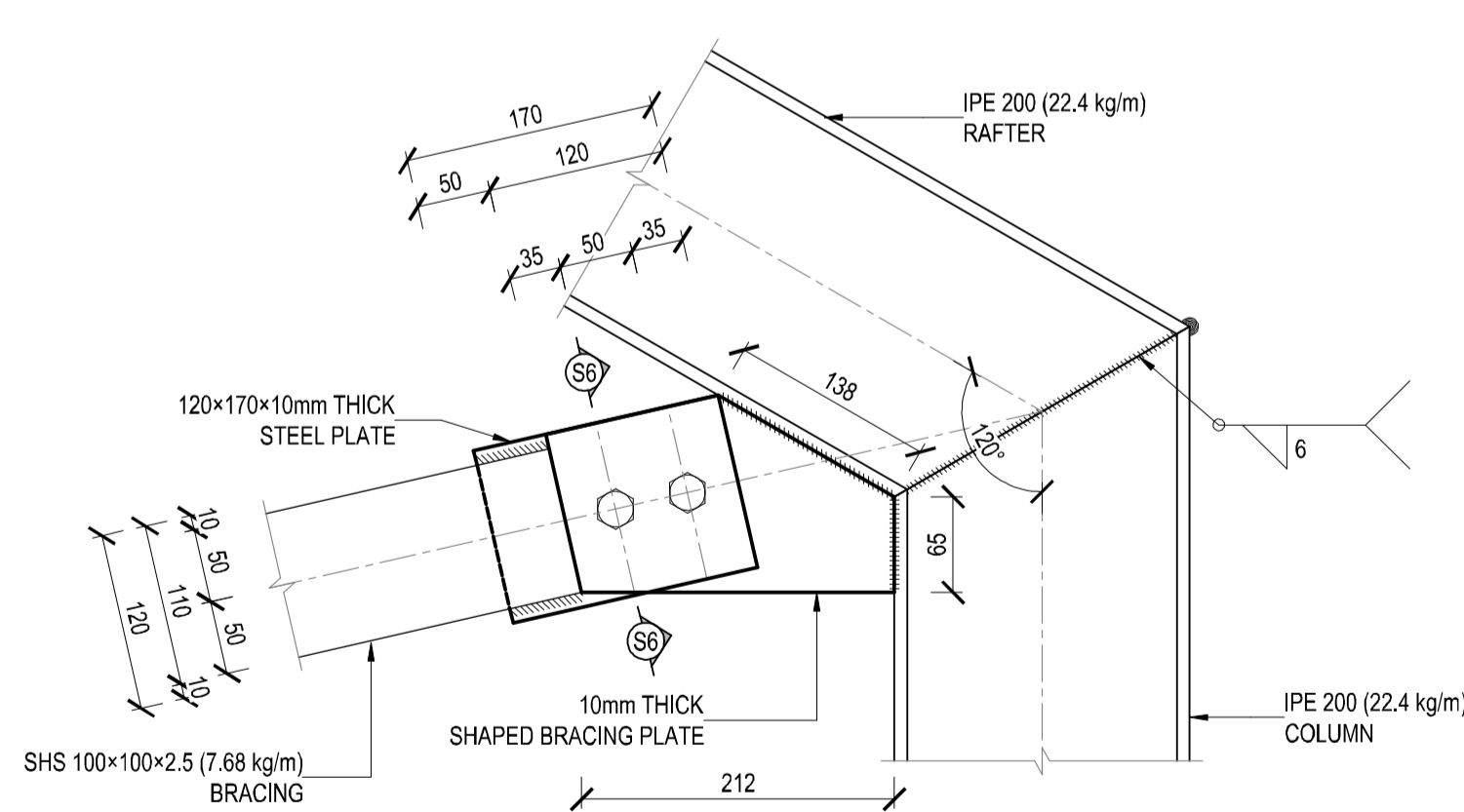
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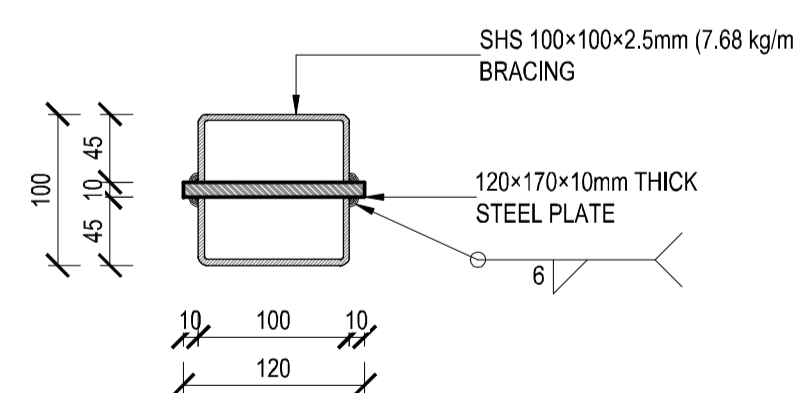
SECTION S5-S5
SCALE 1:5



DETAIL 5
SCALE 1:5



DETAIL 6
SCALE 1:5



SECTION S6-S6
SCALE 1:5

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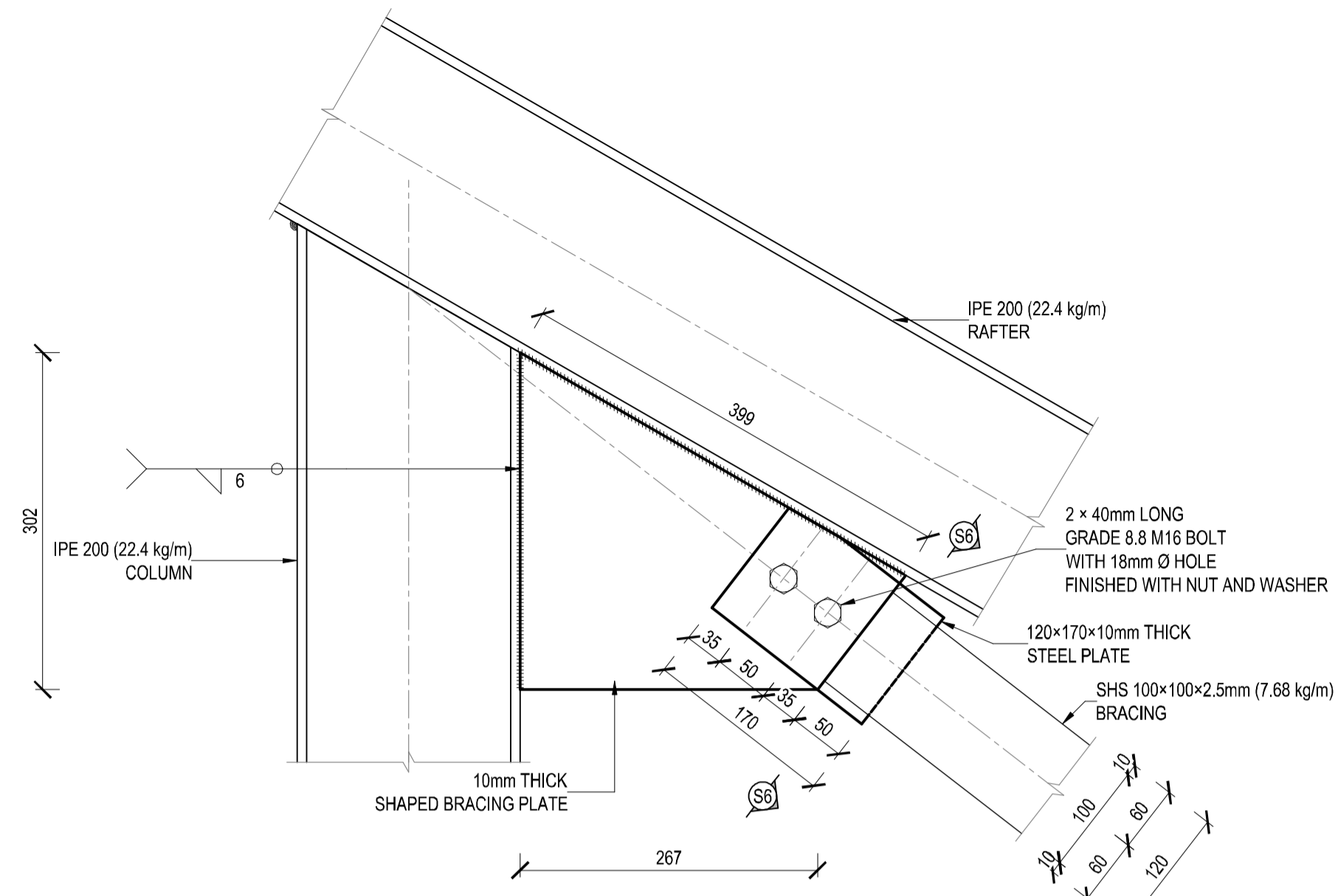
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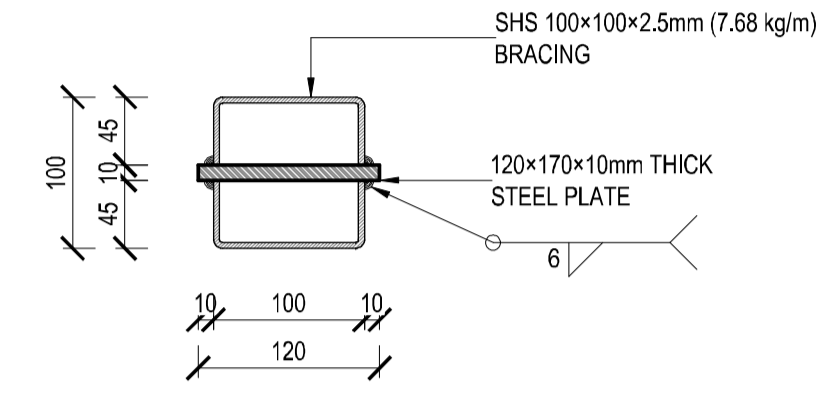
PROJECT/PROEJ
POFADDER-COMPLETION OF OUTSTANDING WORKS OF THE MICROGRID PROJECT

CLIENT/KLIJNT	Khai-MA LOCAL MUNICIPALITY		
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PAPER SIZE/PAPIER GROOTTE	SCALE/SKAAL	DRAWING No./TEKENING Nr.	REV No.
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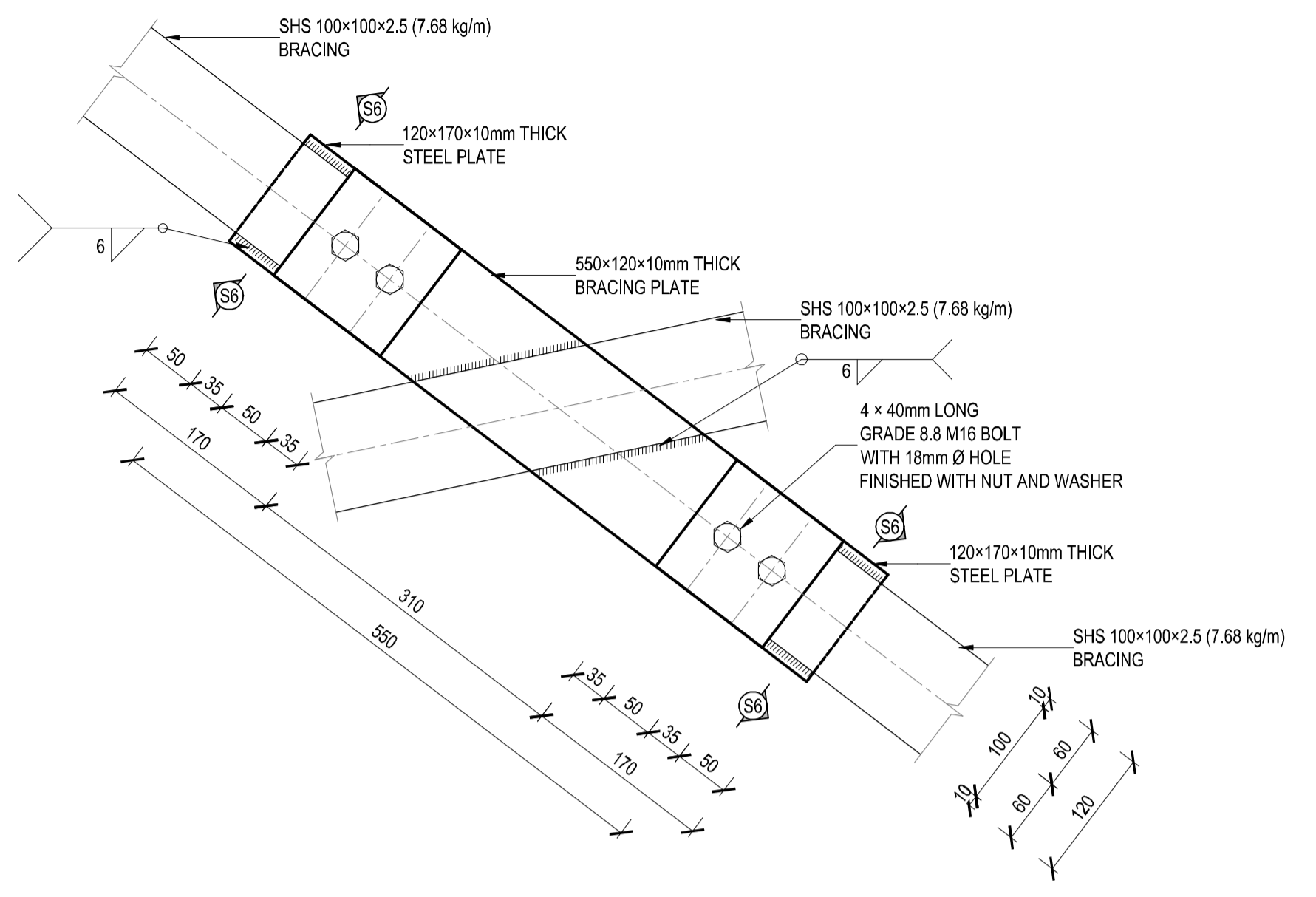
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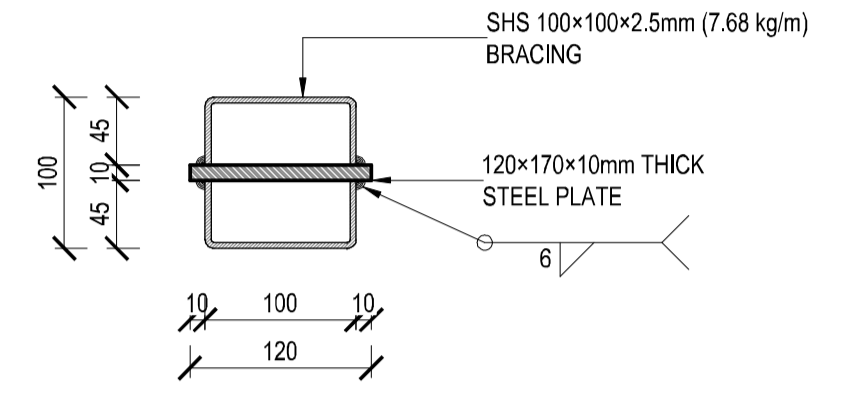
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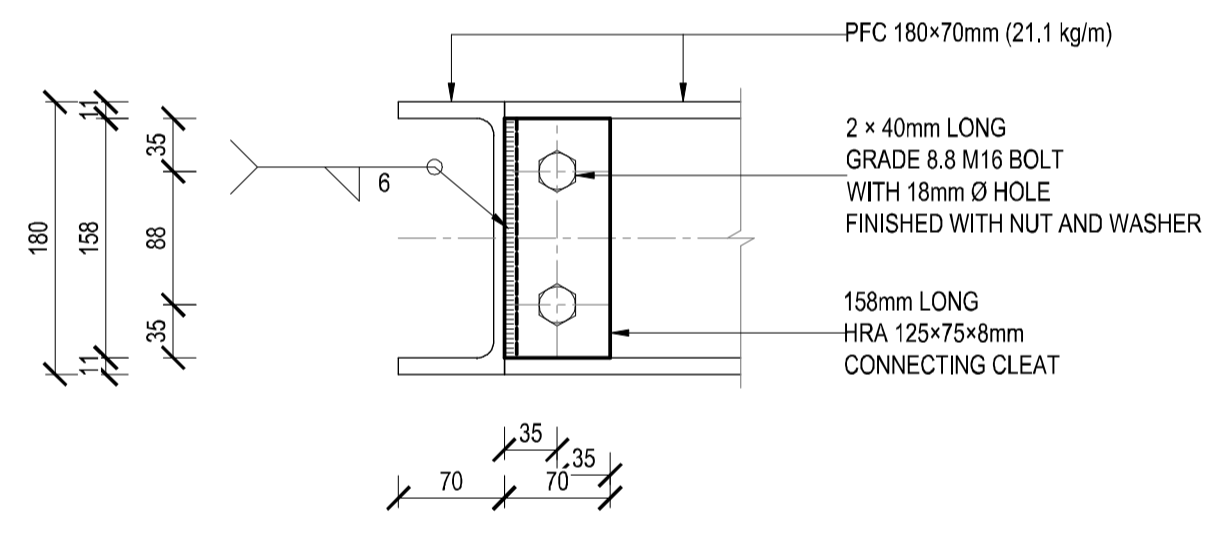
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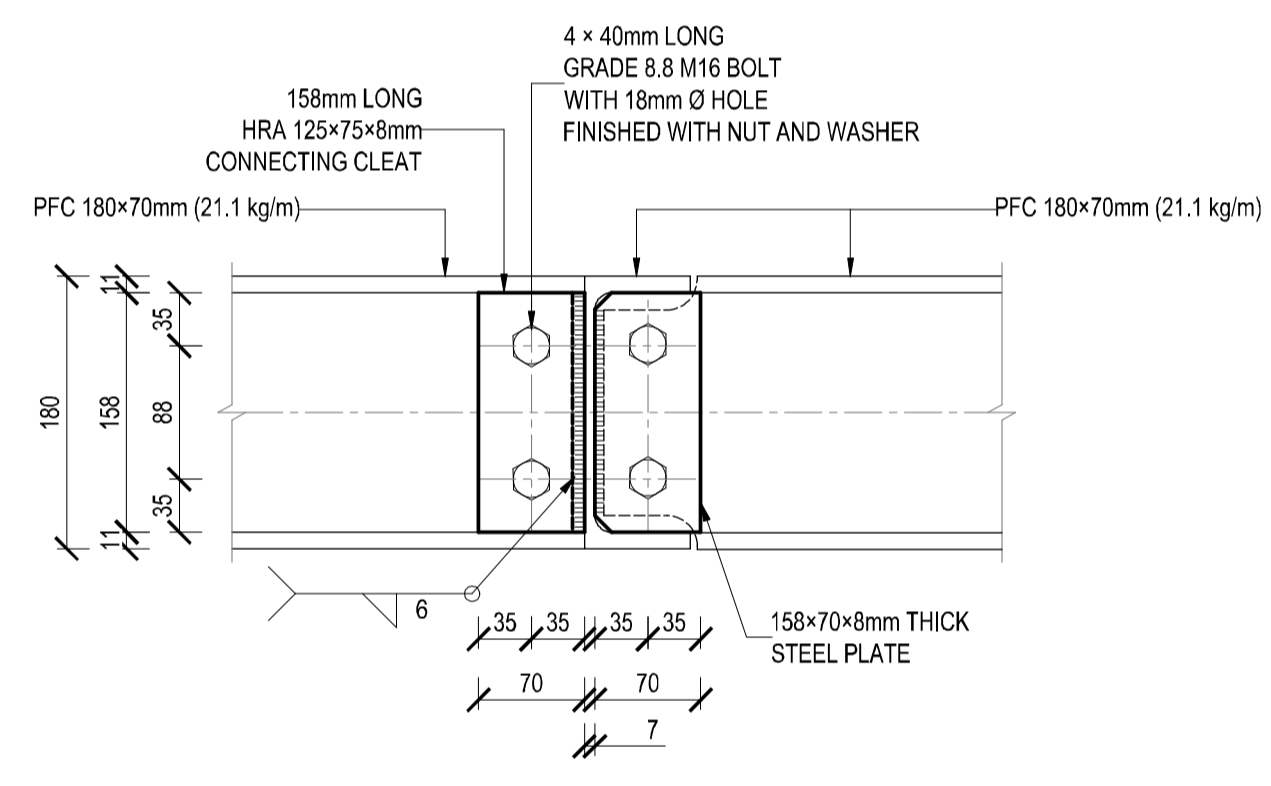
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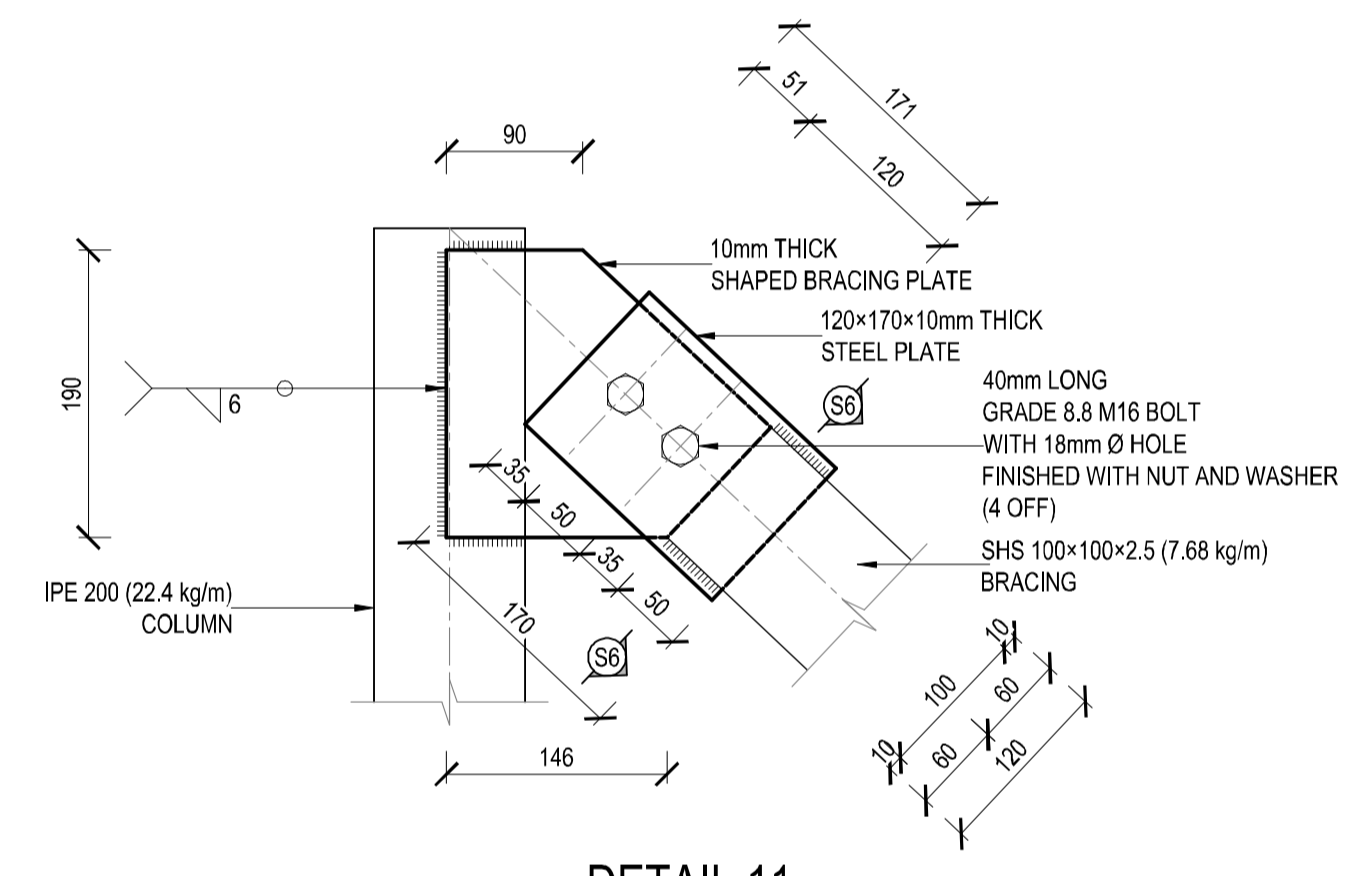
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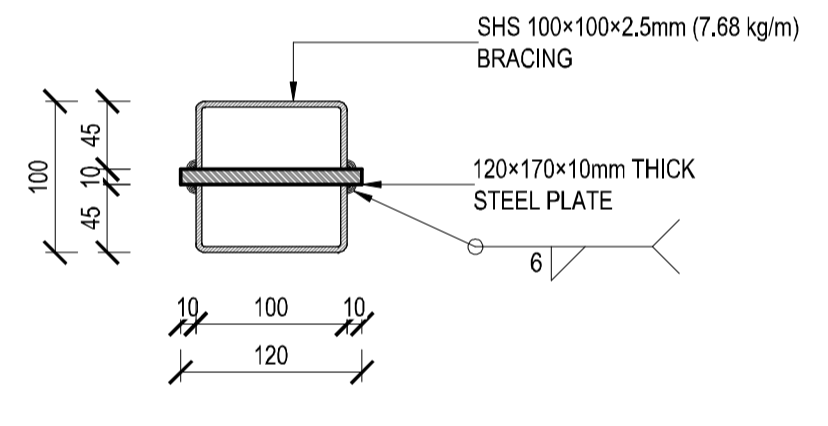
DETAIL 9
SCALE 1:5



DETAIL 10
SCALE 1:5



DETAIL 11
SCALE 1:5



SECTION S6-S6
SCALE 1:5

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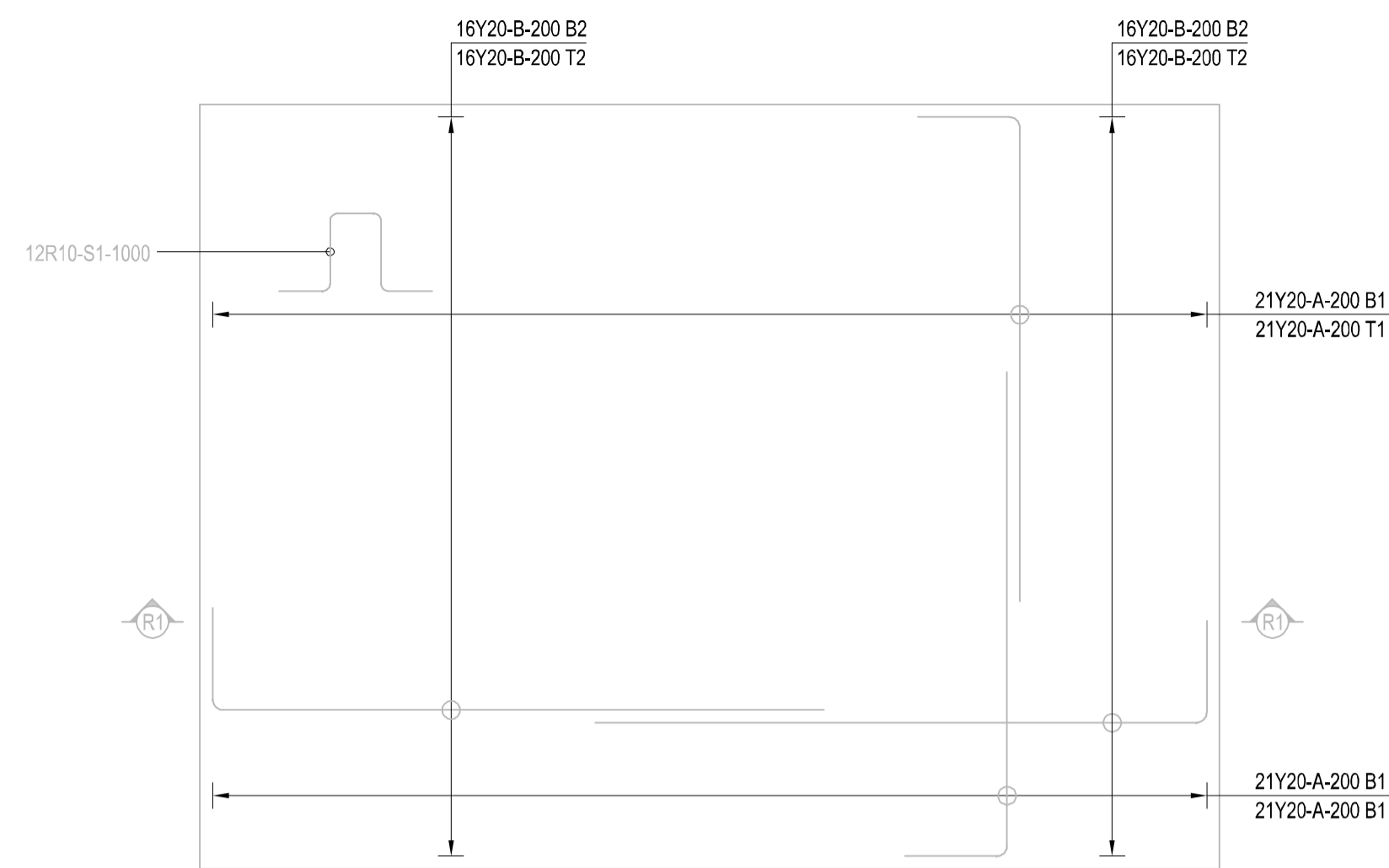
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DRAWN GETEKEN	C.P. MUNDAY
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DATE DATUM	MAY 2026

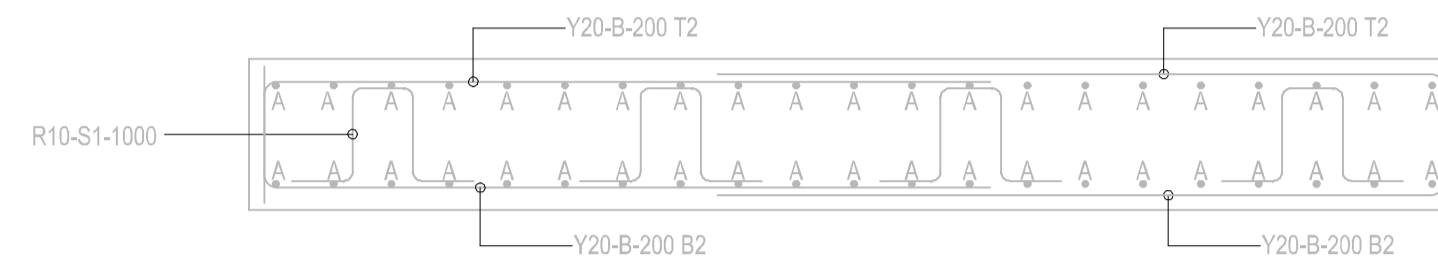
PROJECT/PROJEK
POFADDER-COMPLETION OF OUTSTANDING WORKS OF THE MICROGRID PROJECT

CLIENT/KLIJNT	Khai-MA LOCAL MUNICIPALITY		
DRAWING DESCRIPTION/TEKENING BESKRYWING	CONNECTION DETAILS SHEET 2 OF 2		
PAPER SIZE/PAPIER GROOTTE	SCALE/SKAAL	DRAWING No./TEKENING Nr.	REV No.
A1	A.S.	3094/S/S/D/002	

FOR TENDER



CONCRETE BASE REINFORCEMENT LAYOUT
SCALE 1:25

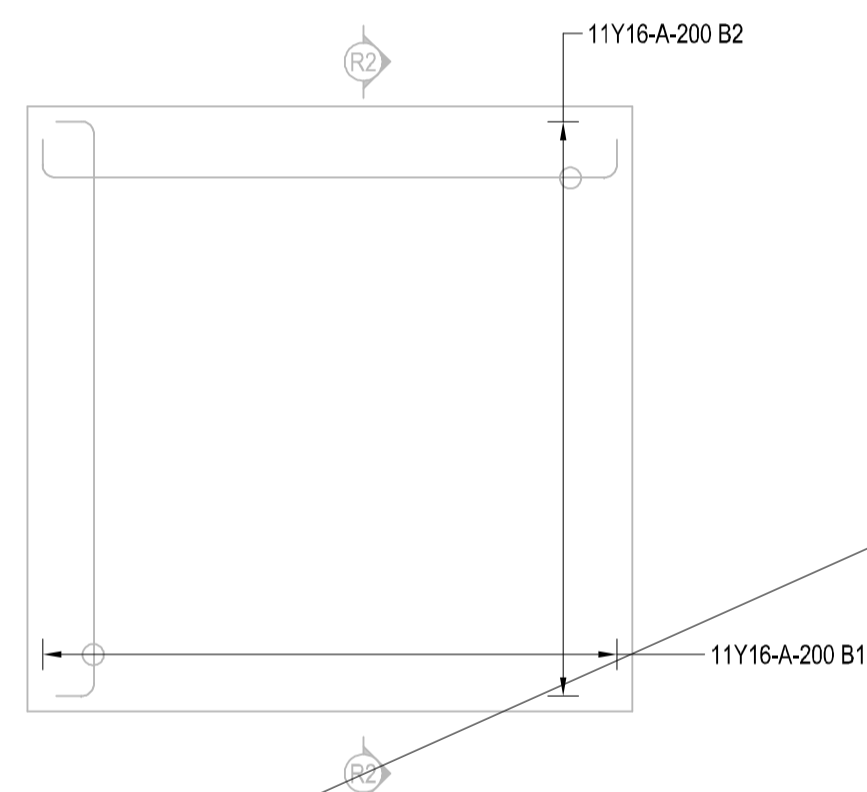


SECTION R1-R1
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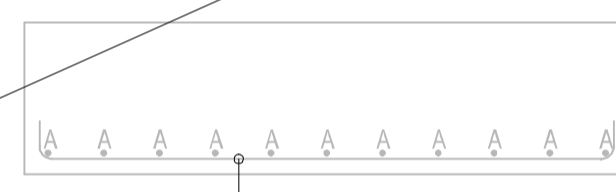
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								A	B	C	D	E/r	
BASE REBAR	1	84	Y20	3200	84	A	37	400	1900				
				4200	64	B	37	400	2400				
		12	R10	1450	12	S1	83	300	400	200	(200)		
	8	10	12	16	20	25	32	40	TOT	Date	2024/11/21		
R									11	Det. by	C.P. MUNDAY		
Y		11							900	Ref Dwg	3094/S/R/L/001		
TOT		11			900				911	Job No	3094		
MVD Kalahari								POFADDER MICROGRID PROJECT		Revision			
Roadgewende Ingenieurs en Stadsbeplanning Consulting Engineers and Town Planning.										Schedule No		CB01	

COVER = 50mm FROM BOTTOM, TOP AND SIDES
30MPa CONCRETE

OMITTED



COLUMN BASE AND STUB COLUMN REINFORCEMENT LAYOUT
SCALE 1:25



SECTION R2-R2
SCALE 1:25

MEMBER	No OF	BARS PER MEMB	DIA.	LENGTH	TOTAL NUM-BER	MARK	S C	BENDING				
								A	B	C	D	E/r
COLUMN BASE	15	22	Y16	2150	330	A	35	1900				
	8	10	12	16	20	25	32	40	TOT	Date	2024/11/21	
R									1120	Det. by	C.P. MUNDAY	
Y									1120	Ref Dwg	3094/S/R/L/001	
TOT					1120				1120	Job No	3094	
MVD Kalahari								POFADDER MICROGRID PROJECT		Revision		
Roadgewende Ingenieurs en Stadsbeplanning Consulting Engineers and Town Planning.										Schedule No		CB02

COVER FOR BASE = 50mm FROM BOTTOM, TOP AND SIDES
30MPa CONCRETE

NOTE/NOTA :
NO DIMENSIONS ARE TO BE SCALED OFF ANY DRAWINGS. ALL DIMENSIONS ARE TO BE RATIFIED ON SITE PRIOR TO ANY CONSTRUCTION.

A BEFORE CONTRACT COMMENCES, VOOR KONTRAK IN AANVANG NEEM.
A1 NA KONTRAK IN AANVANG GENEEM HET.

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NO. NR.	DATE DATUM	AMENDMENTS WYSIGINGS

MVD Kalahari
Consulting Engineers and Town Planning/Raadgewende Ingenieurs en Stadsbeplanning.

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CESA
Consulting Engineers South Africa

DESIGN ONTWERP	L.C. KING
DRAWN GETEKEN	C.P. MUNDAY
CHECKED NAGEGAAN	L.C. KING
CLIENT KLIJNT	----
DATE DATUM	MAY 2026

PROJECT/PROJEK
POFADDER-COMPLETION OF OUTSTANDING WORKS OF THE MICROGRID PROJECT

CLIENT/KLIJNT	Khai-MA LOCAL MUNICIPALITY		
DRAWING DESCRIPTION/TEKENING BESKRYWING	CONCRETE REINFORCEMENT LAYOUT		
PAPER SIZE/PAPIER GROOTTE	SCALE/SKAAL	DRAWING No./TEKENING Nr.	REV No.
A1	A.S.	3094/S/R/L/001	

FOR TENDER