
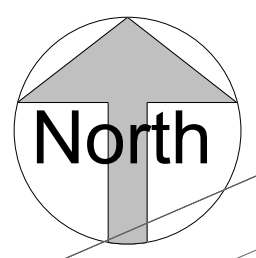


DRAWING REGISTER		
Project Name	Garrane Green Energy Project , Garrane, Co. Limerick.	
	3337-9 (SUIR-Electrical)	
Stage :	Planning	Date: Aug 8, 2025
Circulation:		
Client: Garrane Green Energy Ltd.		
Dwg No.	Drawing Title	
Series	Site Location	
3337-SUIR-SS-DR-C-2005	Drainage System Layout	
3337-SUIR-SS-ZZ-DR-PL-C-2006	Substation Elevations	
3337-SUIR-SS-ZZ-DR-PL-C-2007	Substation Elevations	
3337-SUIR-SS-DR-C-2401	Proposed Eirgrid Building-Plan,Elevations, Section	
3337-SUIR-SS-DR-C-2402	Proposed IPP Building-Plan,Elevations, Section	
3337-SUIR-SS-DR-C-2410	Palisade Fence Typical Details	
3337-SUIR-SS-DR-C-2411	Line Cable Interface Mast (LCIM) Typical Detail	
3337-SUIR-SS-DR-C-2412	Typical Oil Interceptor Tank Details	
3337-SUIR-SS-DR-C-2413	Typical Effluent Tank Details	
3337-SUIR-SS-DR-C-2414	Typical Drainage Details	
3337-SUIR-SS-DR-C-2415	Construction Temporary Compound Layout	
3337-SUIR-SS-DR-C-2416	Generator Bund Detail	
3337-SUIR-GR-DR-C-3000	Standard 110kV Circuit Arrangement Cross Section	
3337-SUIR-GR-DR-C-3003	C2 Chamber typical details	



Proposed Location for Water Well

Oil Interceptor
See Detail 2412

SW Inlet Points from
Underground Cable
Trench (Indicative Only)

Generator & Fuel Tank Plinth
See Detail 2416

Indicative Grid
Transformer

Indicative Distribution Bay

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LEGEND

	GRAVEL/STONE SURFACE
	COMPOUND STONE ACCESS ROADS
	CONCRETE ACCESS ROAD
	GRID CONNECTION ROUTE
	PROPOSED WATERMAIN NETWORK
	PROPOSED FOUL SEWER NETWORK
	PROPOSED SURFACE WATER



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REV	DATE	DESCRIPTION	BY	APP
P04	15/04/25	UPDATED AS PER COMMENTS	SK	JB
P03	04/04/25	UPDATED AS PER COMMENTS	SK	JB
P02	16/01/25	UPDATED AS PER COMMENTS	SK	JB
P01	11/11/24	ISSUED FOR INFORMATION	SK	JB

PROJECT: GARRANE GREEN ENERGY PROJECT

TITLE: Drainage System Layout

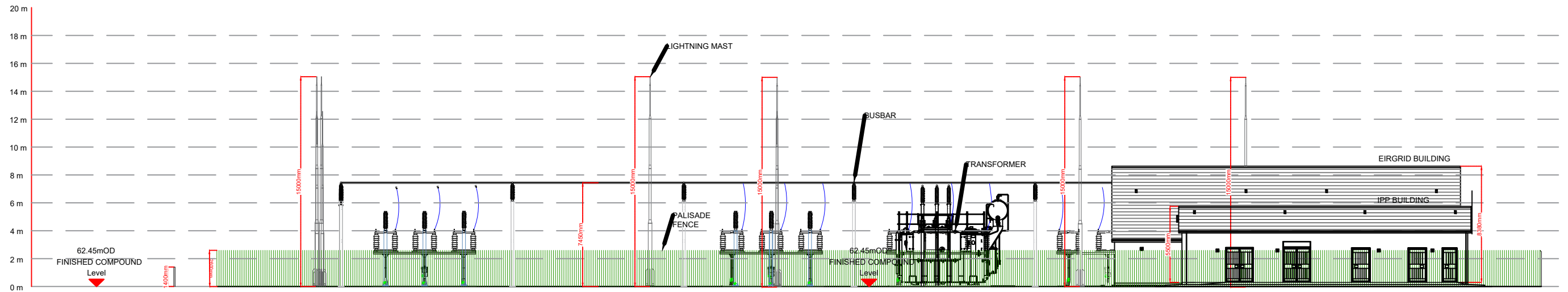
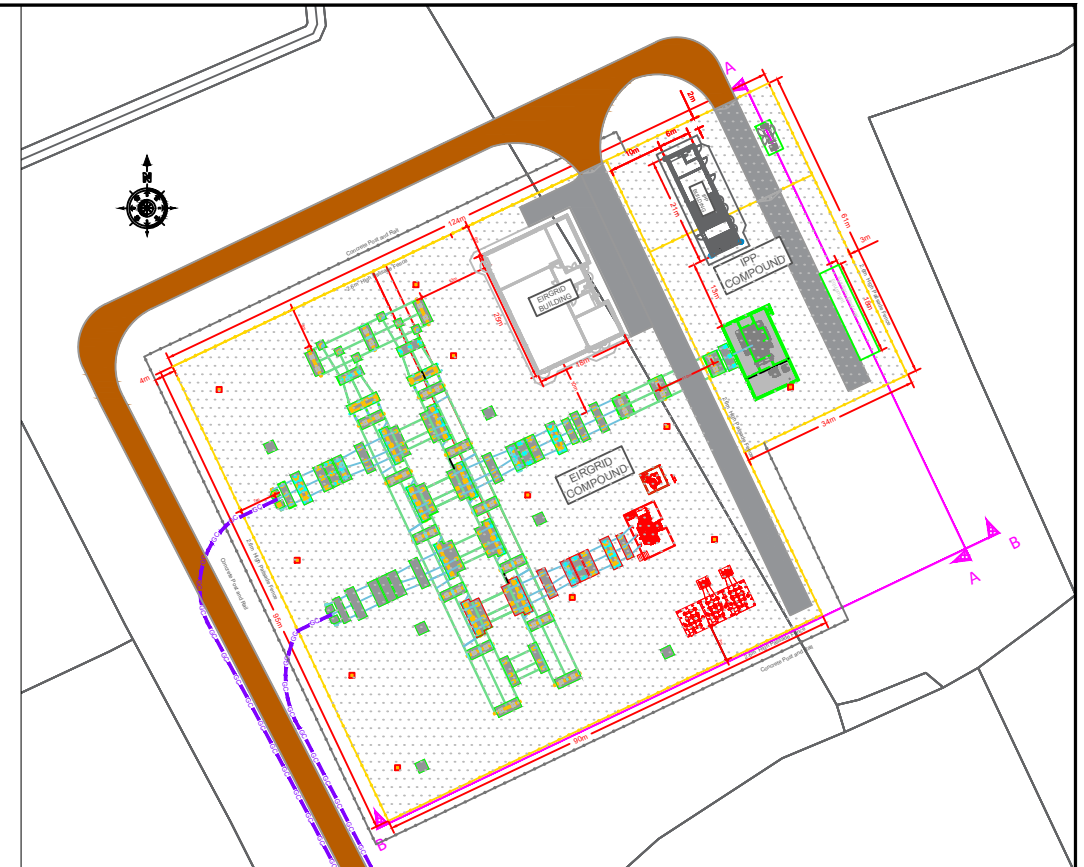
CLIENT: Garrane Green Energy



DRAWN: SK	CHECKED: JB	APPROVED: TS
PROJECT NUMBER: 3337	DATE: 15 May 2025	SCALE @ A1: 1:200
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2
DRAWING NUMBER: 3337-SUIR-SS-DR-C-2005	REV: P04	

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Elevation - AA Scale 1:200

REV	DATE	DESCRIPTION	BY	APP
P02	13/03/25	ADDITIONAL INFORMATION	SK	JB
P01	24/10/24	ISSUED FOR PLANNING	SK	JB

CLIENT

Garrane Green Energy

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LONDON OFFICE:
 33-35 WOODTHROPE ROAD ASHFORD,
 MIDDLESEX, TW15, ENGLAND
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PROJECT:

Garrane Green Energy Project

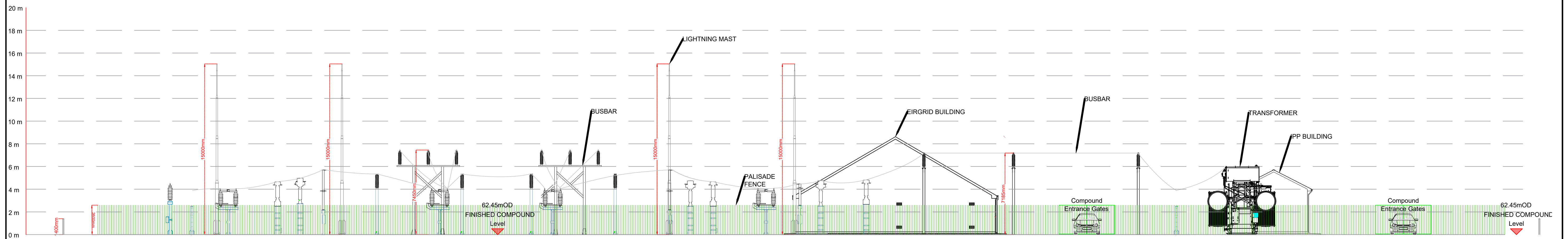
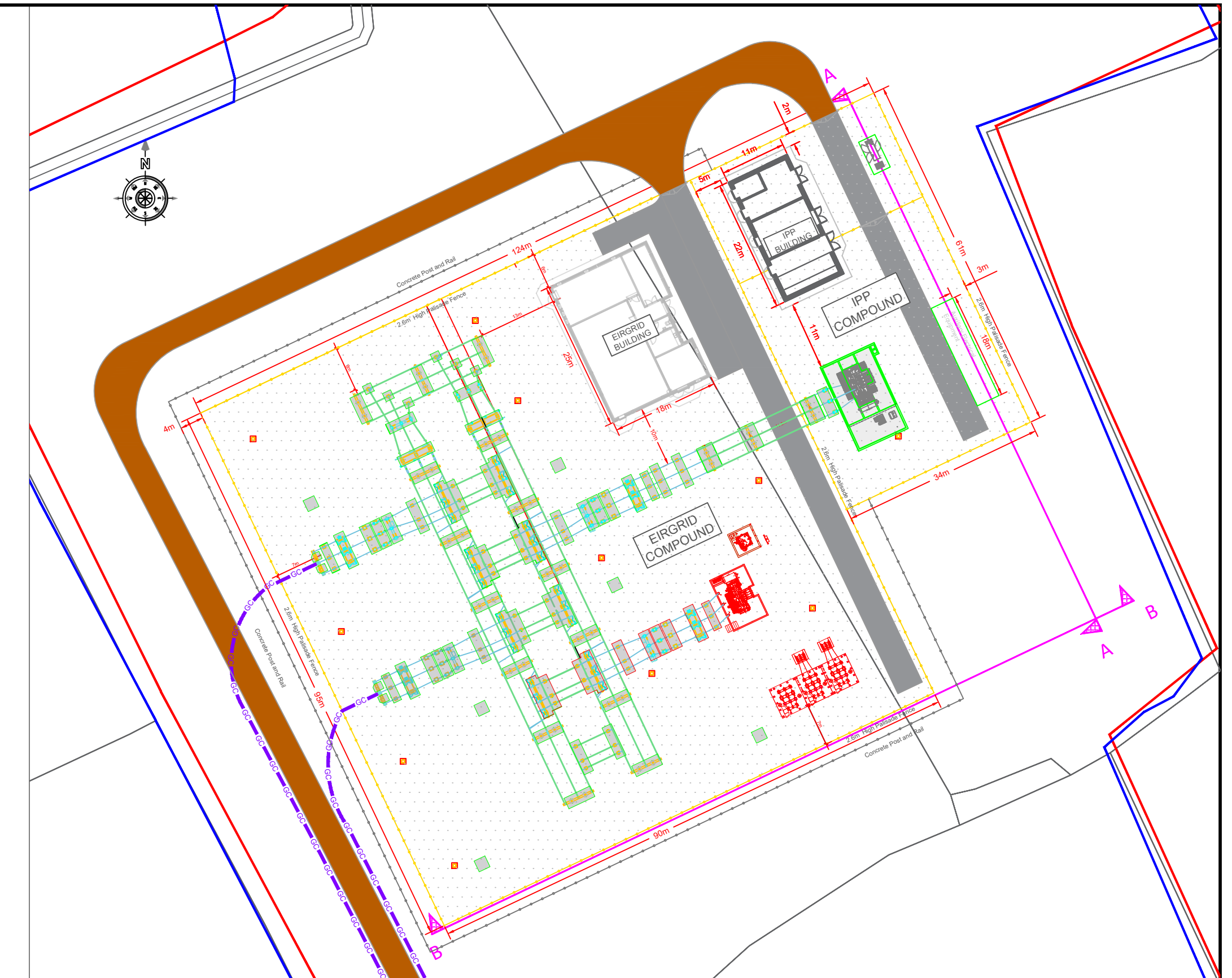
TITLE:

Substation Elevations

DRAWN: SK	CHECKED: JB	APPROVED: TS
PROJECT NUMBER: 3337	DATE: 13/03/2025	SCALE @ A3: 1:200
STATUS DESCRIPTION FOR PLANNING		STATUS: A
DRAWING NUMBER: 3337 - SUIR -SS-ZZ-DR-PL-2006		REV: P03

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Elevation - BB Scale 1:200

REV	DATE	DESCRIPTION	BY	APP
P02	13/03/25	ADDITIONAL INFORMATION	SK	JB
P01	24/10/24	ISSUED FOR PLANNING	SK	JB

CLIENT

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 IRELAND
 TELE: +353 (0) 14691850

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 MIDDLESEX, TW15, ENGLAND
 TELE: +44 (0) 1784 220 900

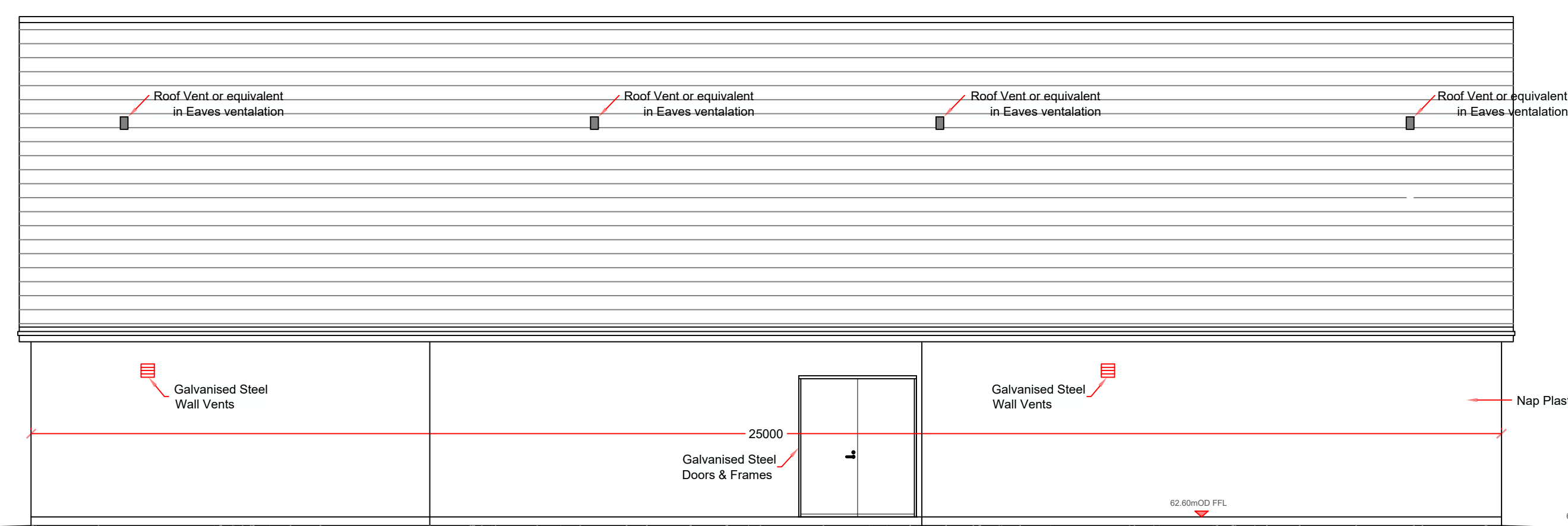
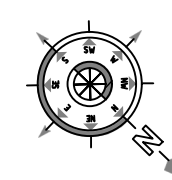
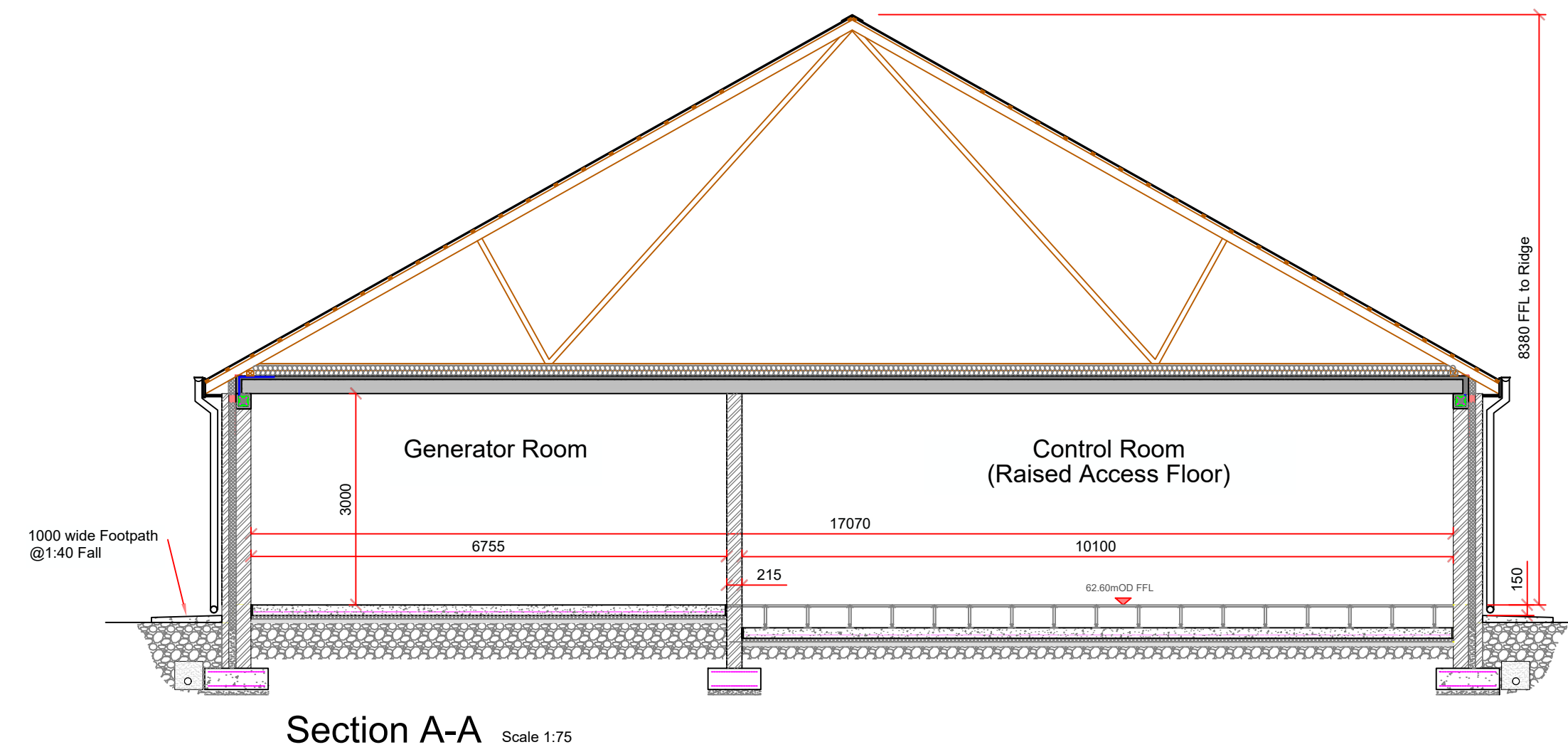
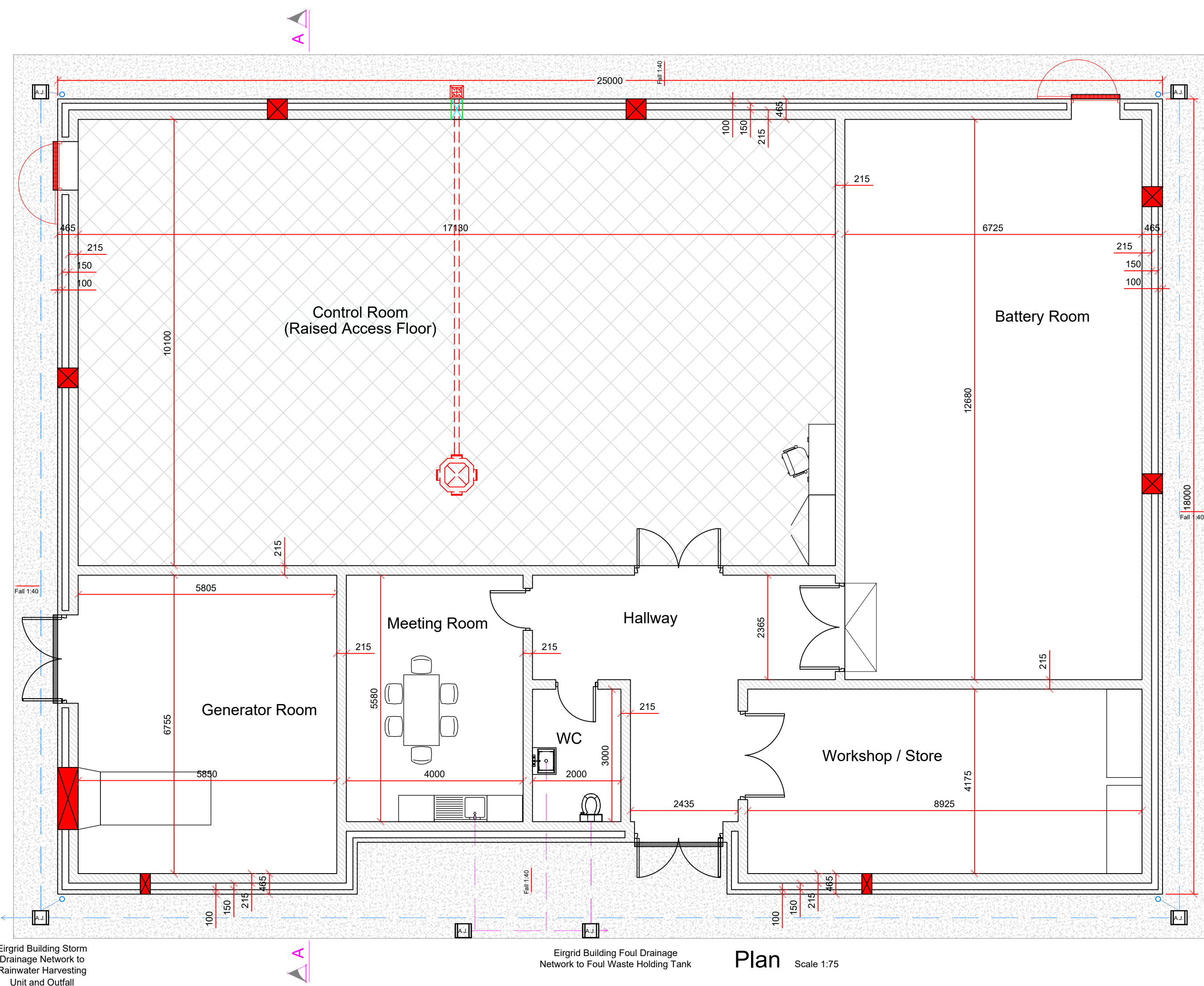
PROJECT:
Garrane Green Energy Project

TITLE:
Substation Elevations

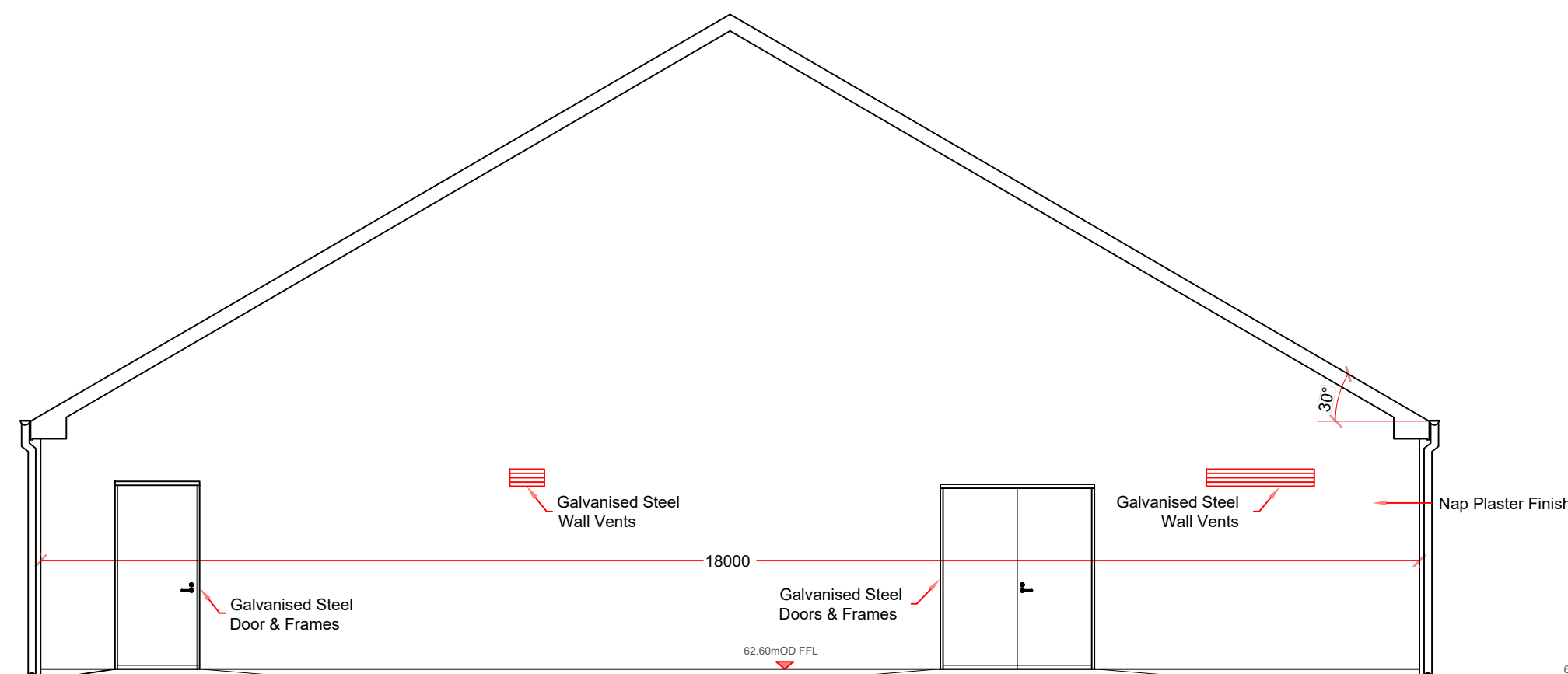
DRAWN: SK	CHECKED: JB	APPROVED: TS
PROJECT NUMBER: 3337	DATE: 13/03/2025	SCALE @ A1 1:200
STATUS DESCRIPTION FOR PLANNING		STATUS: A
DRAWING NUMBER: 3337 - SUIR -SS-ZZ-DR-PL-2007		REV: P02

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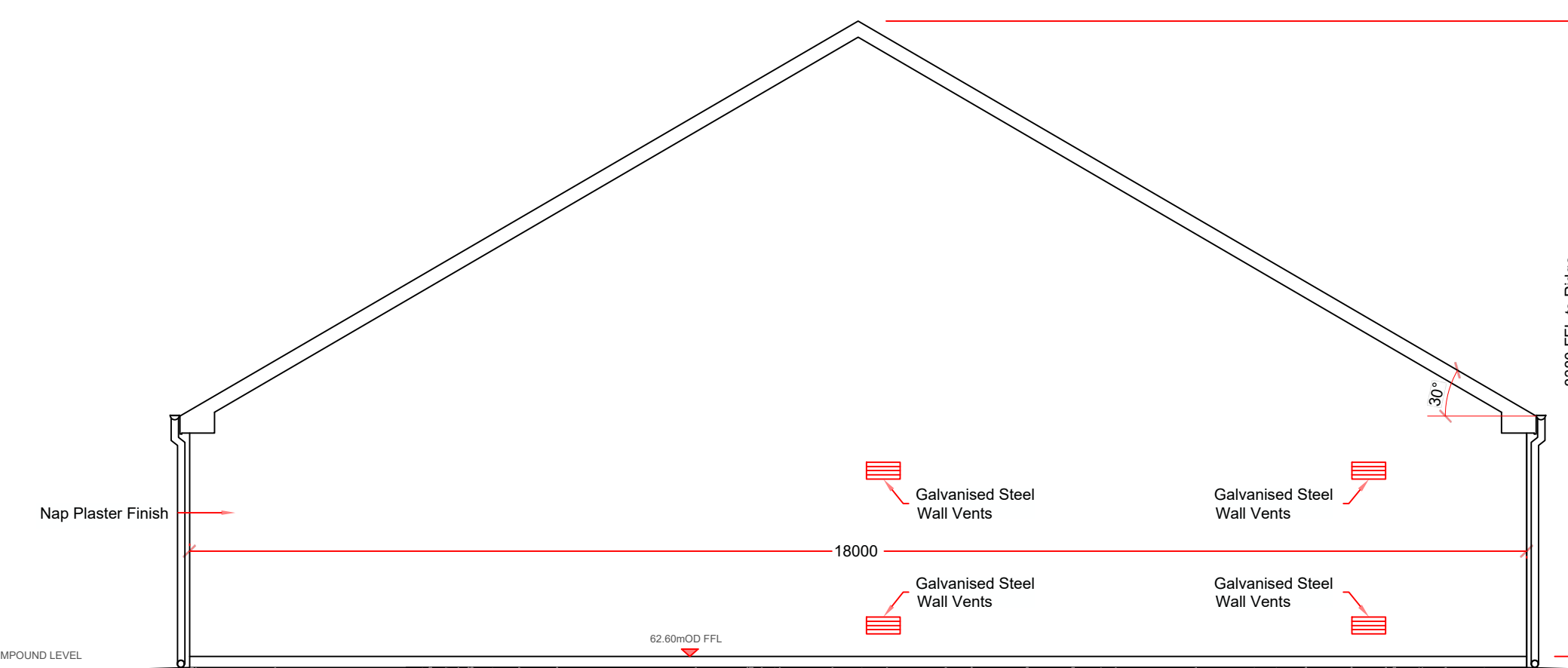
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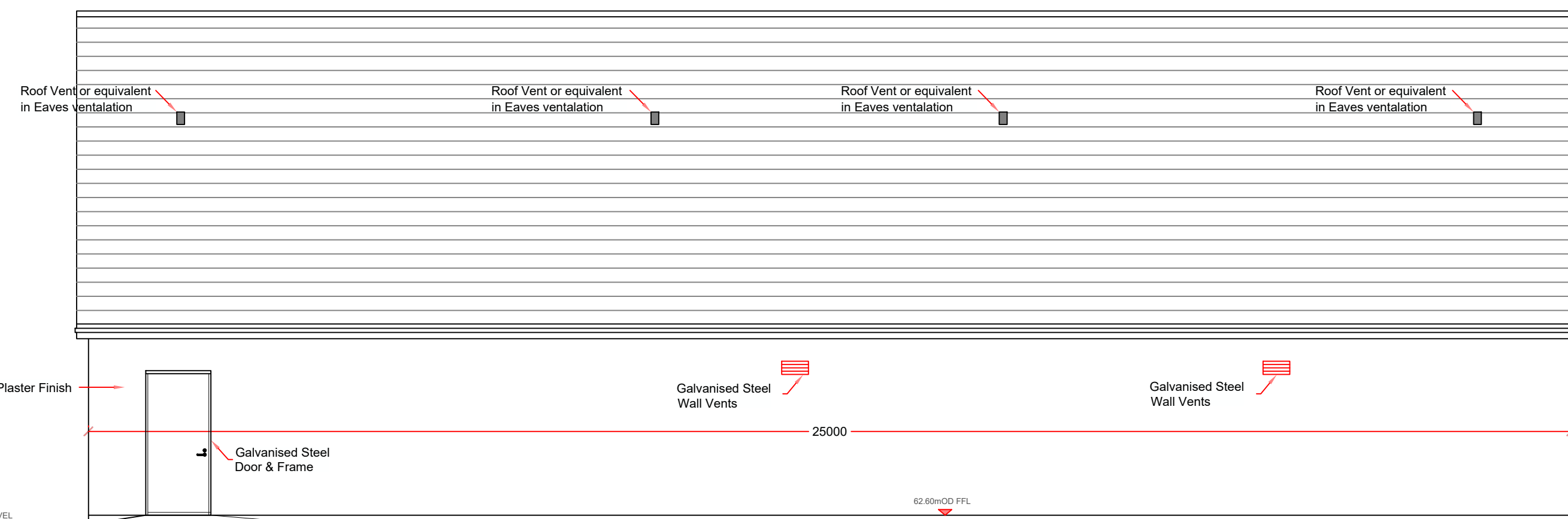
Front Elevation - Northeast Scale 1:75



Side Elevation - Southeast Scale 1:75



Side Elevation - Northwest Scale 1:75



Rear Elevation - Southwest Scale 1:75

REV	DATE	DESCRIPTION	BY	APP
P02	16/01/25	UPDATED AS PER COMMENTS	SK	JB
P01	26/04/24	ISSUED FOR INFORMATION	SK	JB

GARRANE GREEN ENERGY PROJECT

Proposed Eirgrid Building - Plan, Elevations, Section

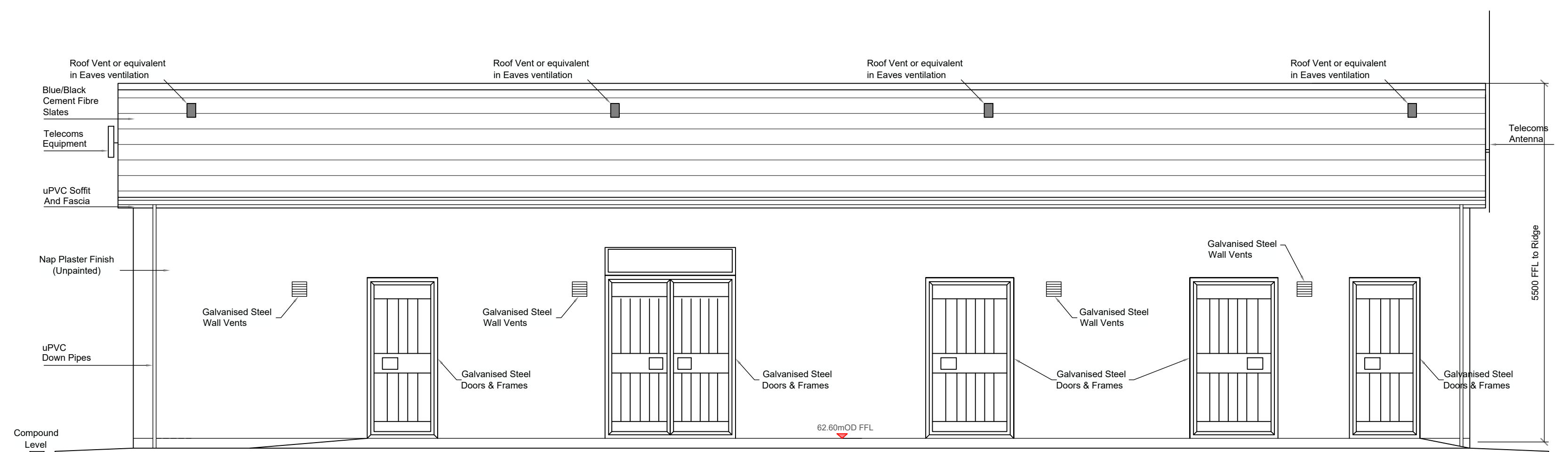
Garrane Green Energy 



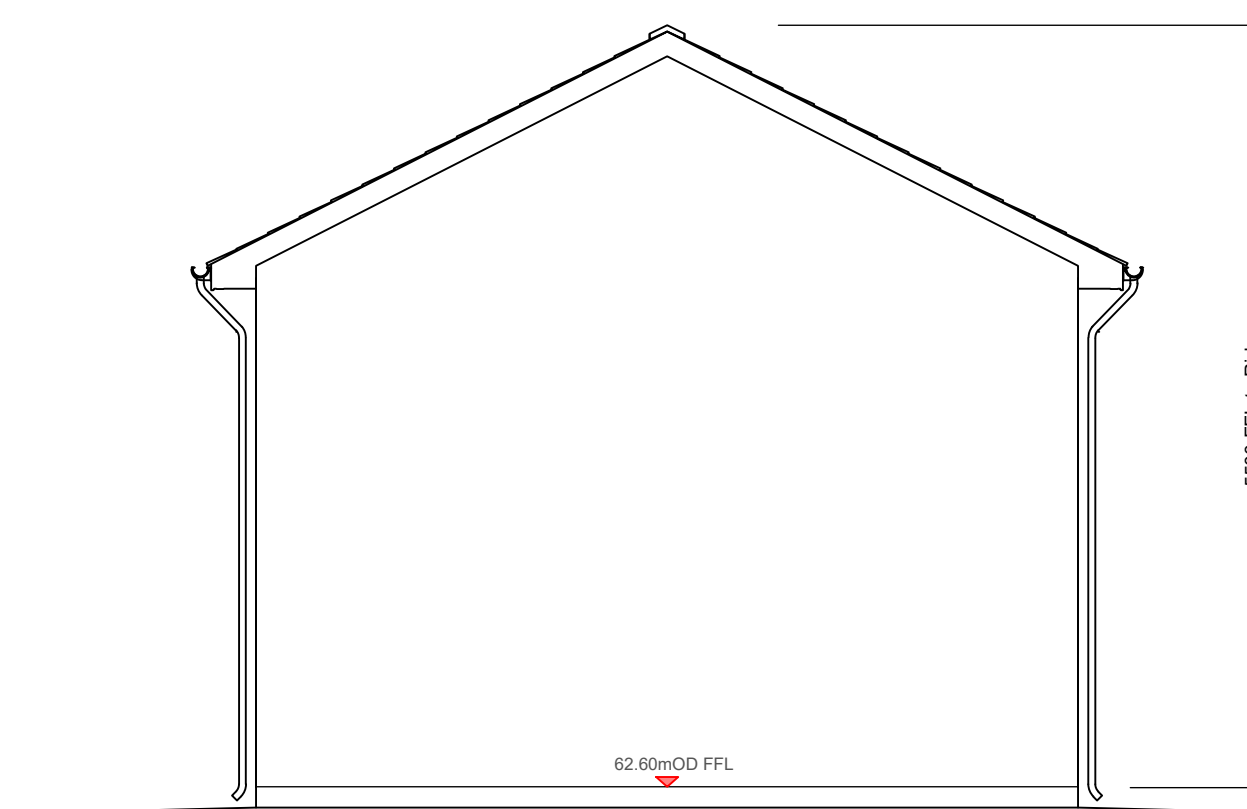
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PROJECT NUMBER: 3337	DATE: 16 Jan 2025	SCALE @ A1: As Shown
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2
DRAWING NUMBER: 3337-SUIR-SS-DR-C-2401		REV: P02

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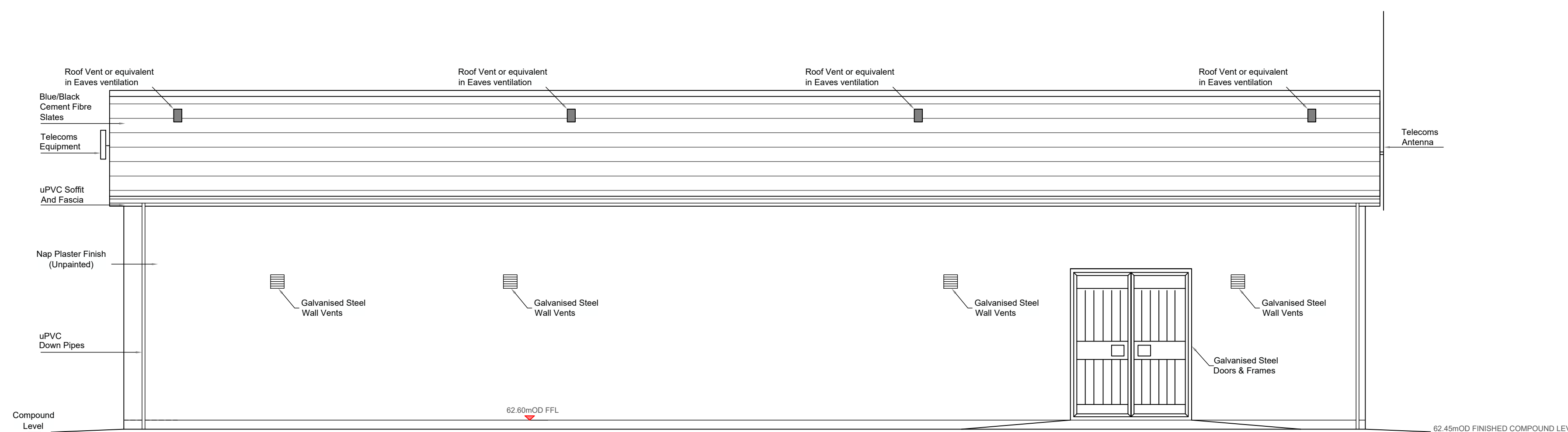
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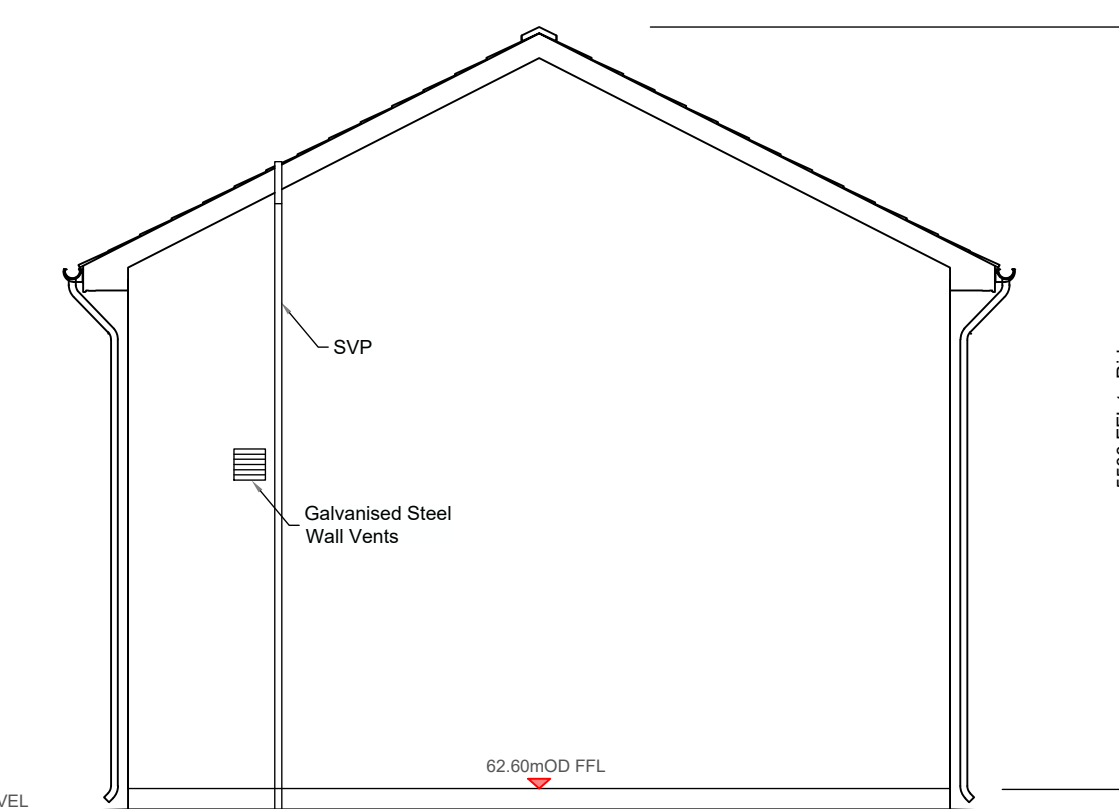
Front Elevation - Northeast Scale 1:50



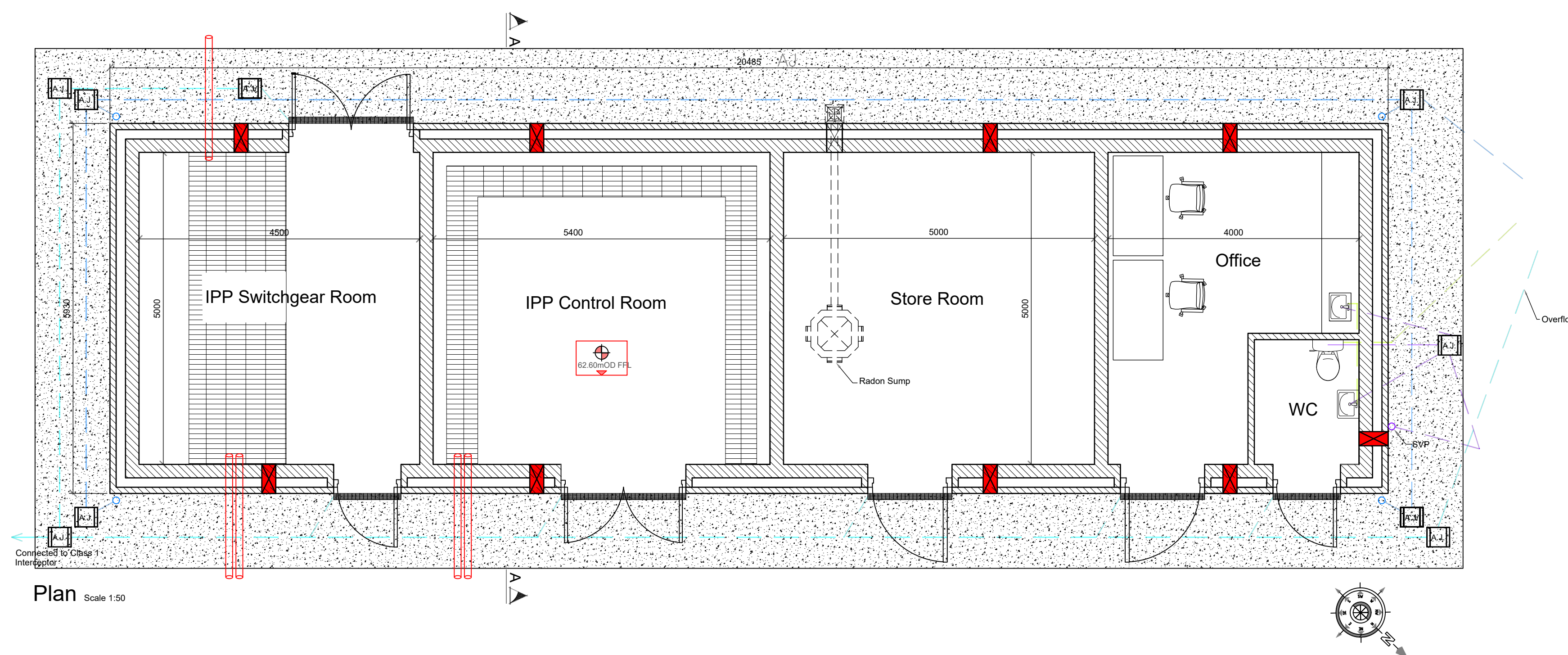
Side Elevation - Southeast Scale 1:50



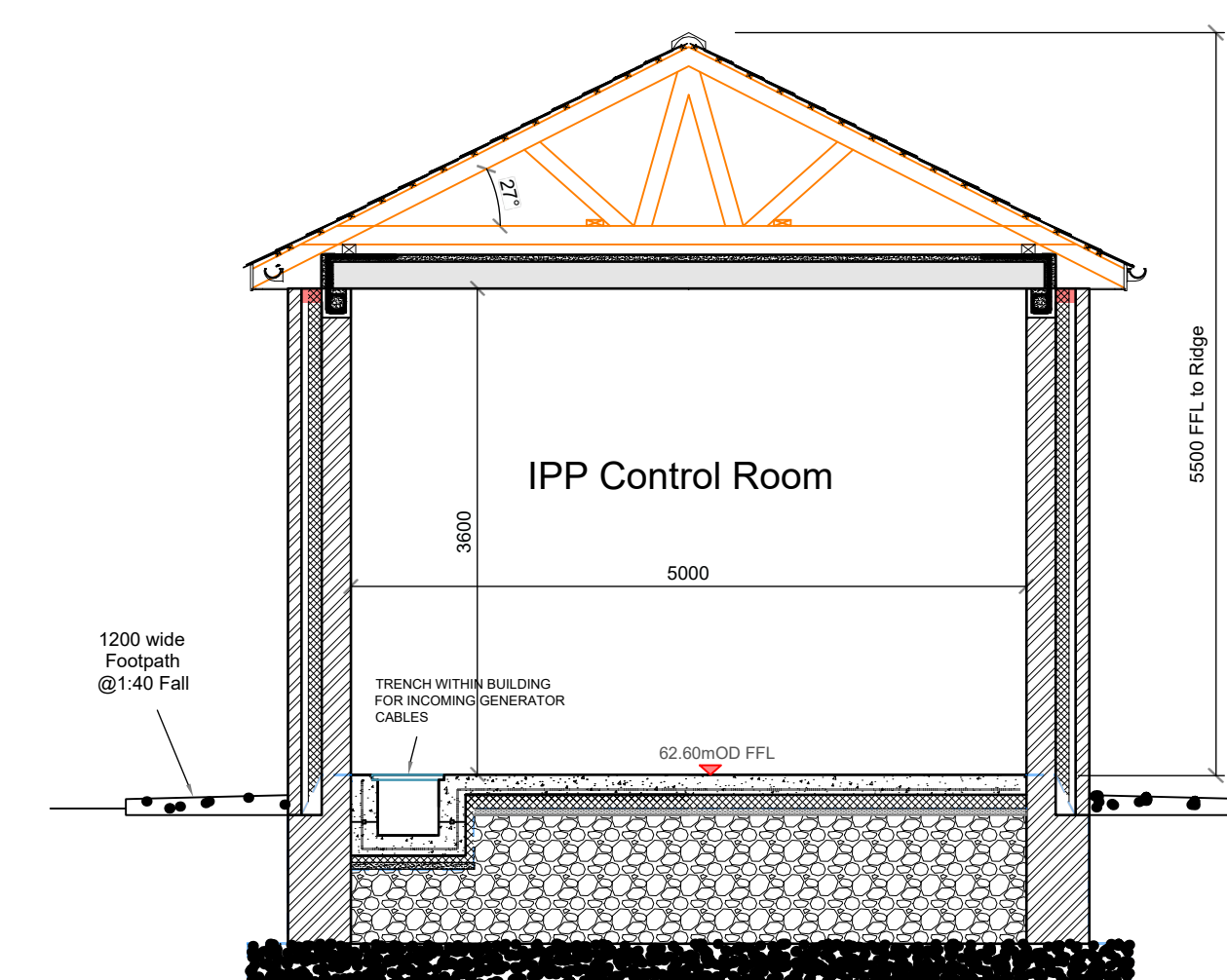
Rear Elevation - Southwest Scale 1:50



Side Elevation - Northwest Scale 1:50



Plan Scale 1:50



Section A-A Scale 1:50

REV	DATE	DESCRIPTION	BY	APP
P02	16/01/25	UPDATED AS PER COMMENTS	SK	JB
P01	26/04/24	ISSUED FOR INFORMATION	SK	JB

PROJECT: GARRANE GREEN ENERGY PROJECT

TITLE: Proposed IPP Building - Plan, Elevations, Section

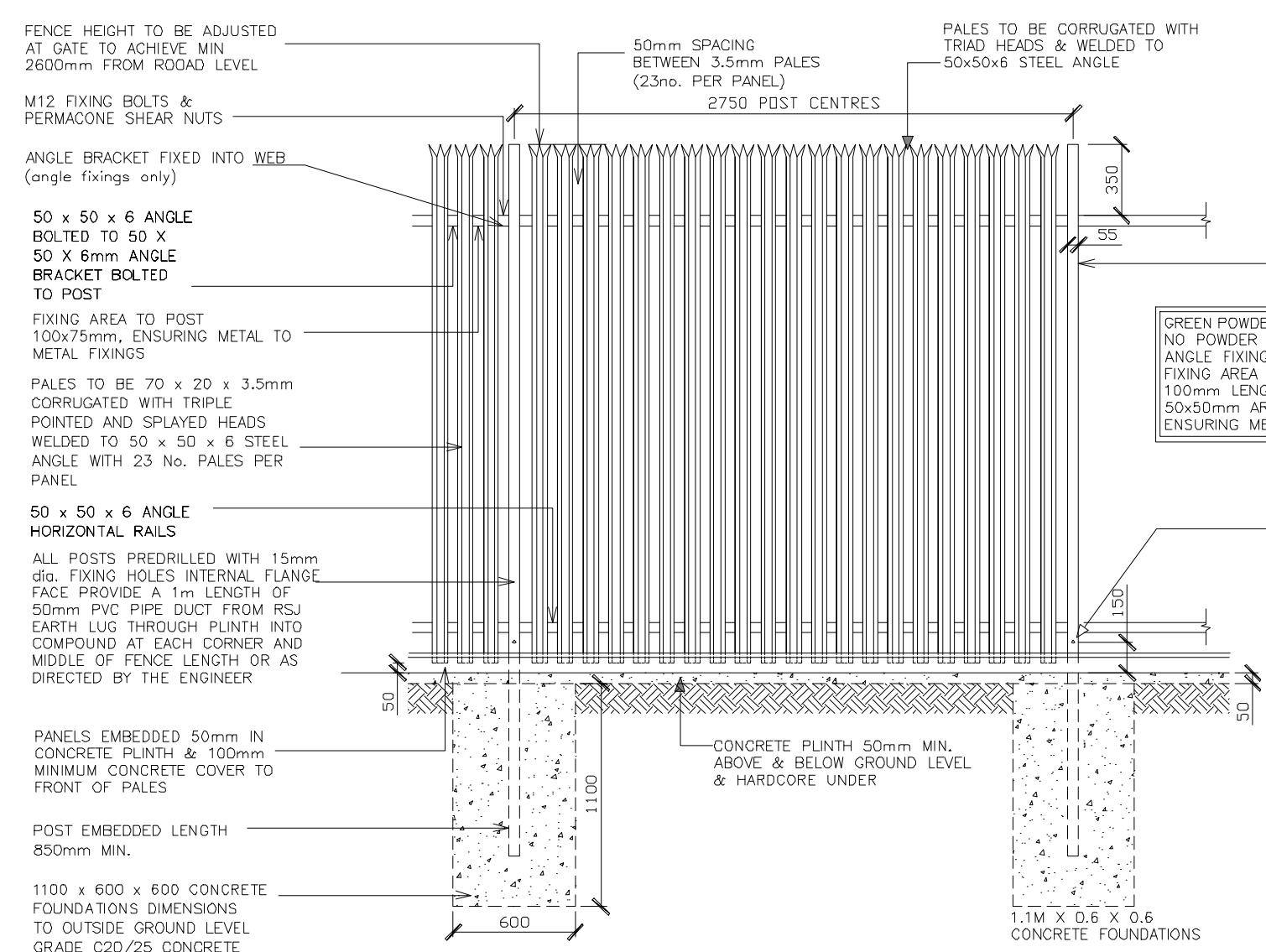
CLIENT: Garrane Green Energy



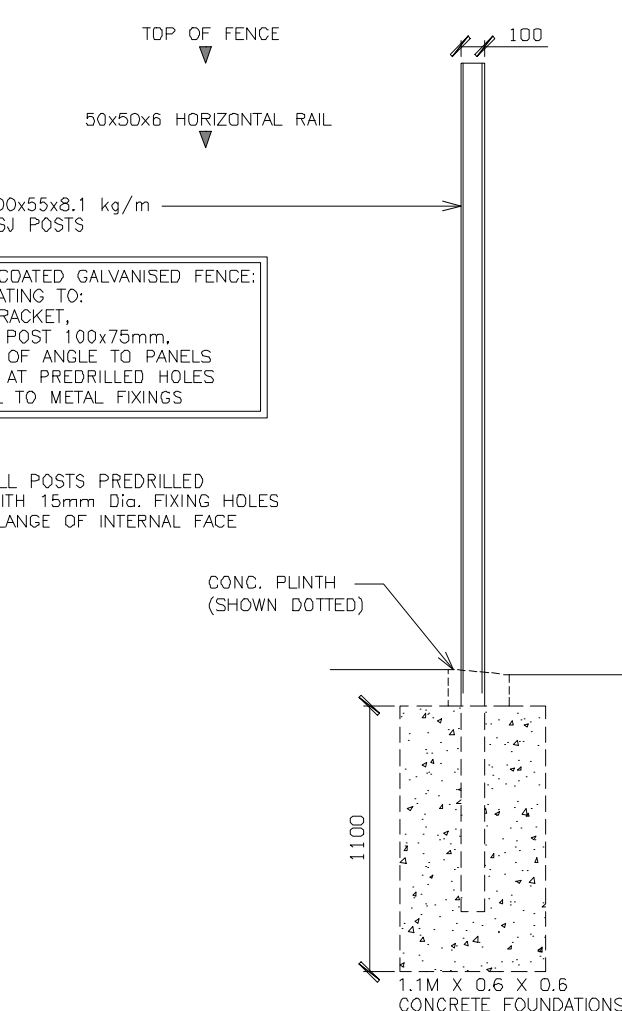
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PROJECT NUMBER: 3337	DATE: 16 Jan 2025	SCALE @ A1: As Shown
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2
DRAWING NUMBER: 3337-SUIR-SS-DR-C-2402		REV: P02

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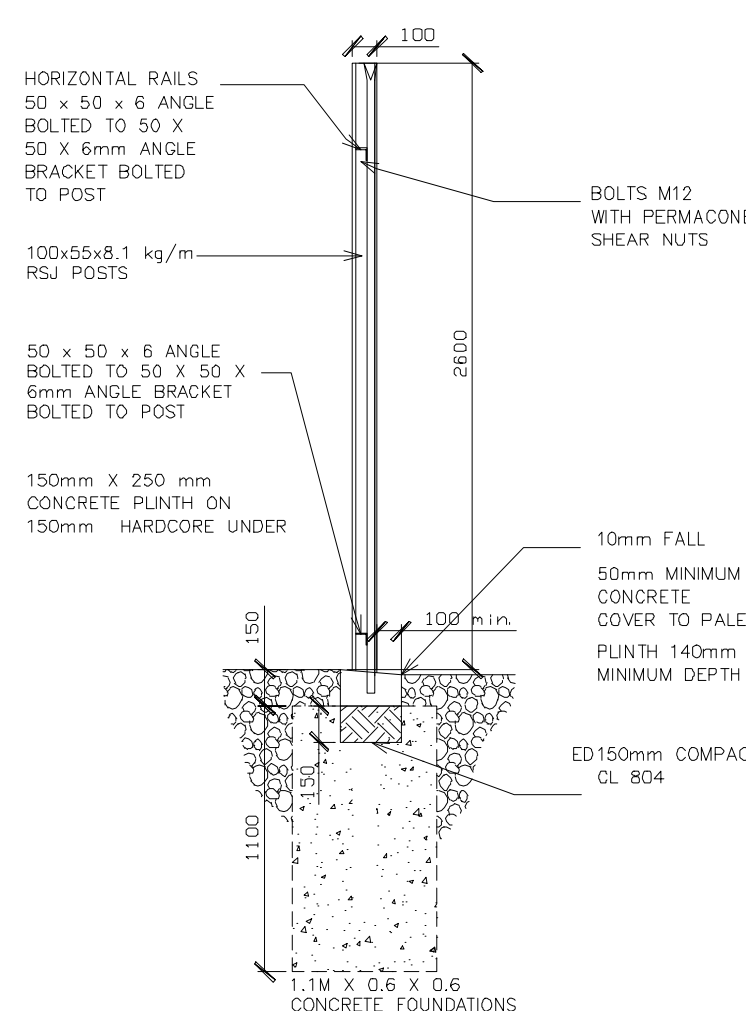
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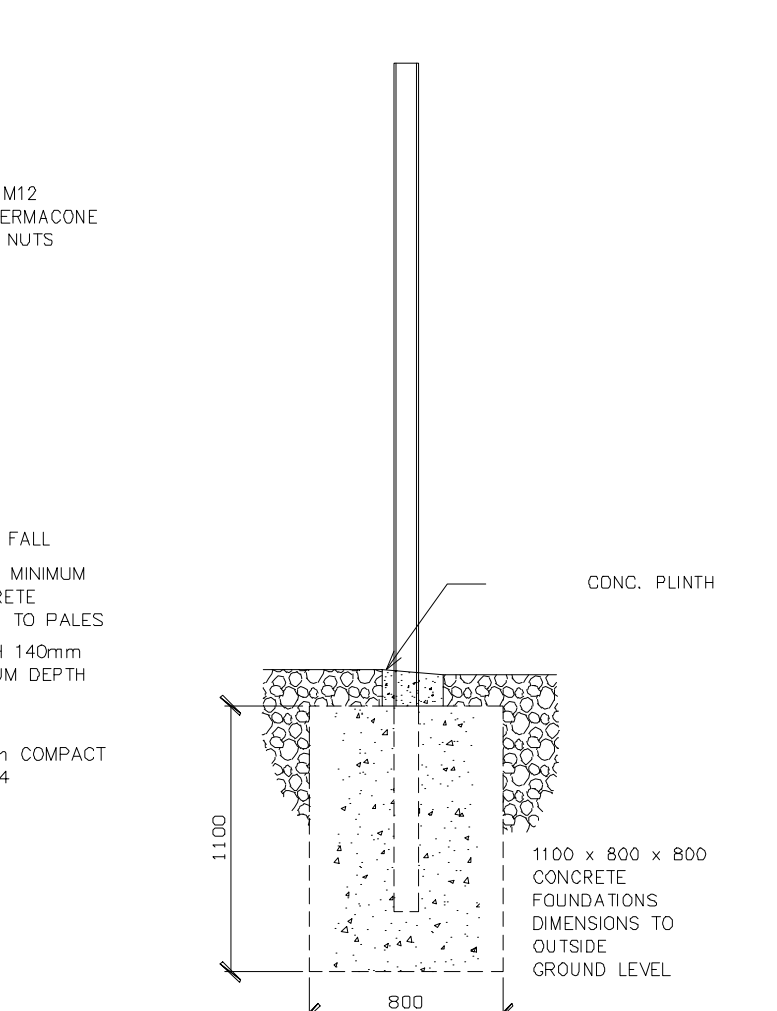
ELEVATION OF FENCE
SCALE 1:50



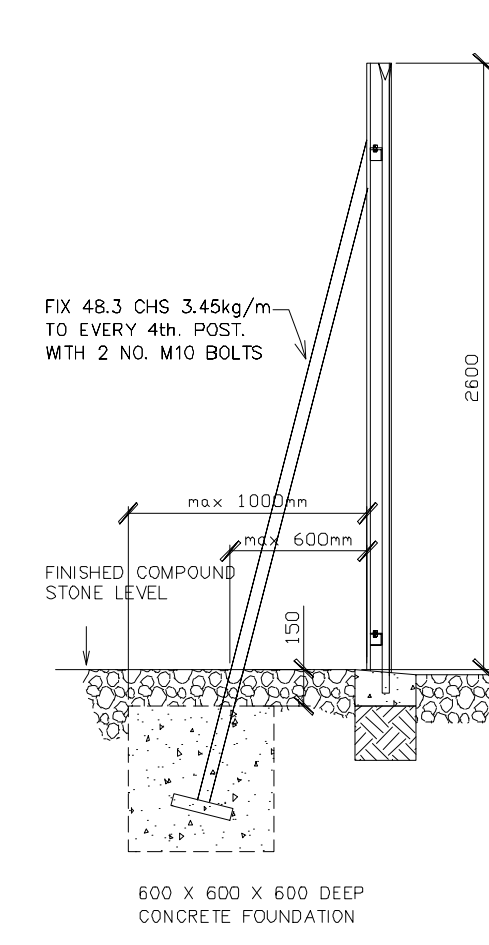
SIDE ELEVATION OF POST
SCALE 1:50



PALES & PLINTH DETAILS
SCALE 1:50



DETAILS OF FOUNDATION TO CORNER POSTS
SCALE 1:50

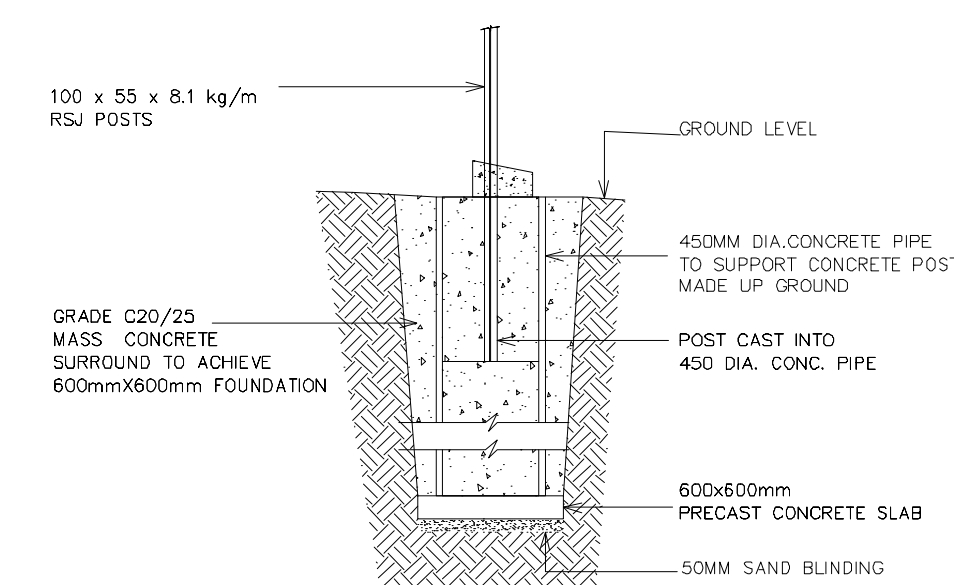


DETAIL OF STRUTS TO FENCING (ONLY WHEN REQUIRED)
SCALE 1:50

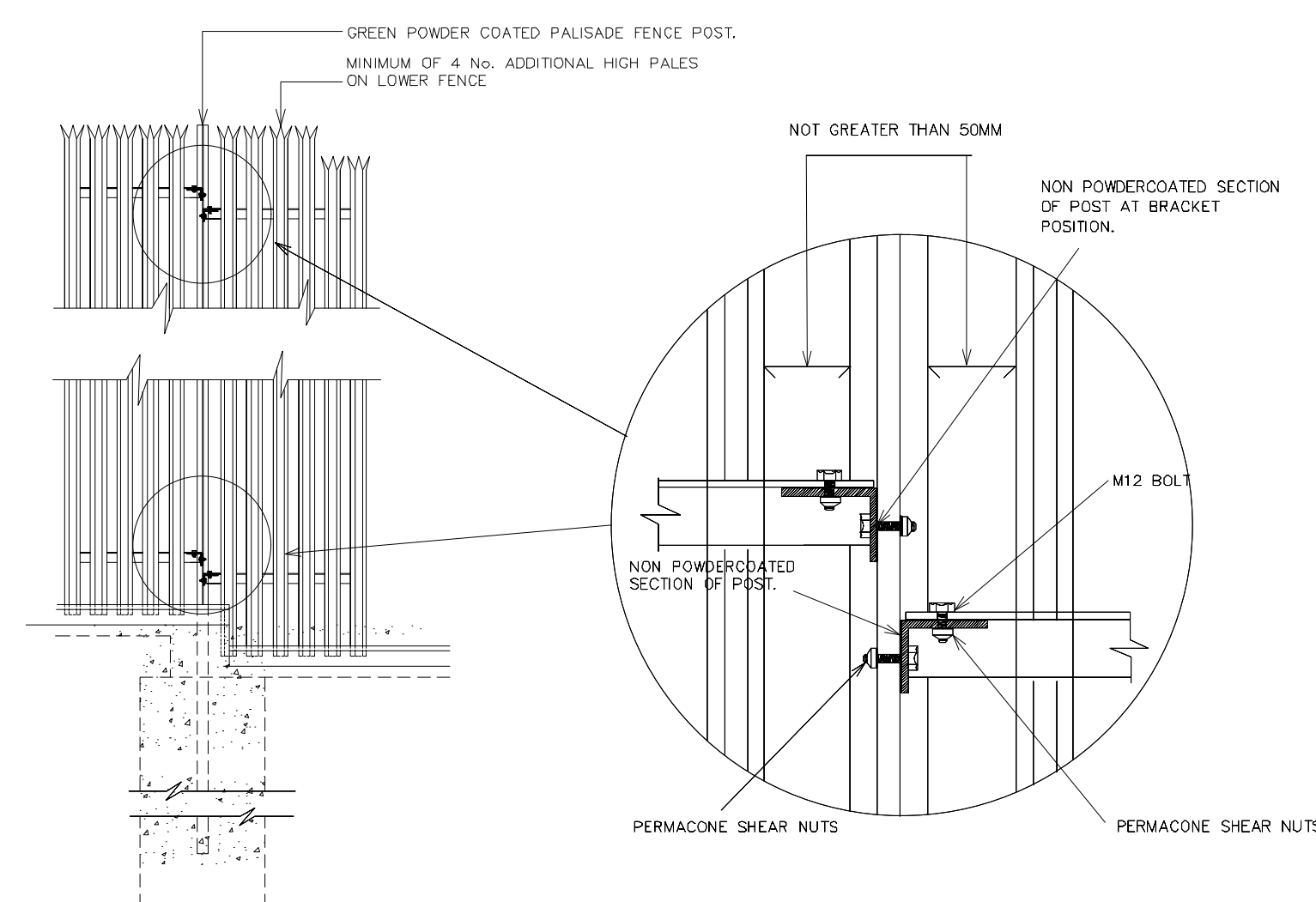
NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ESBI DRAWINGS, BILLS OF QUANTITIES AND SPECIFICATION CS 17-301-5
2. THIS DRAWING IS NOT TO BE SCALED.
3. THE FENCE IS TO BE CONSTRUCTED IN ACCORDANCE WITH B.S. 1722 PART 12
4. GALVANISING TO BE IN ACCORDANCE WITH IS EN ISO 1461.
5. POWDER COATING TO BE IN ACCORDANCE WITH IS EN 13438.
6. PALES TO BE TRIPLE POINTED & SPLAYED, AND WELDED TO RAILS IN ACCORDANCE WITH CL. 5.1 OF BS 1722
7. GAP BETWEEN PALES AND BETWEEN PALES AND RSJ TO BE NOT GREATER THAN 50MM.
8. MINIMUM HEIGHT OF FENCE ON EITHER SIDE OF COMPOUND IS TO BE 2600MM
9. IN AREAS OF MADE-UP GROUND ADDITIONAL CONCRETE TO BE USED IN BASE. QUANTITY TO BE APPROVED BY ESBI IN ADVANCE.
10. CONCRETE TO BE GRADE C20/25 TO BASES, C30/37 TO PLINTHS IN ACCORDANCE WITH TABLE 1 DRAWING PG406-0100-001-001-000

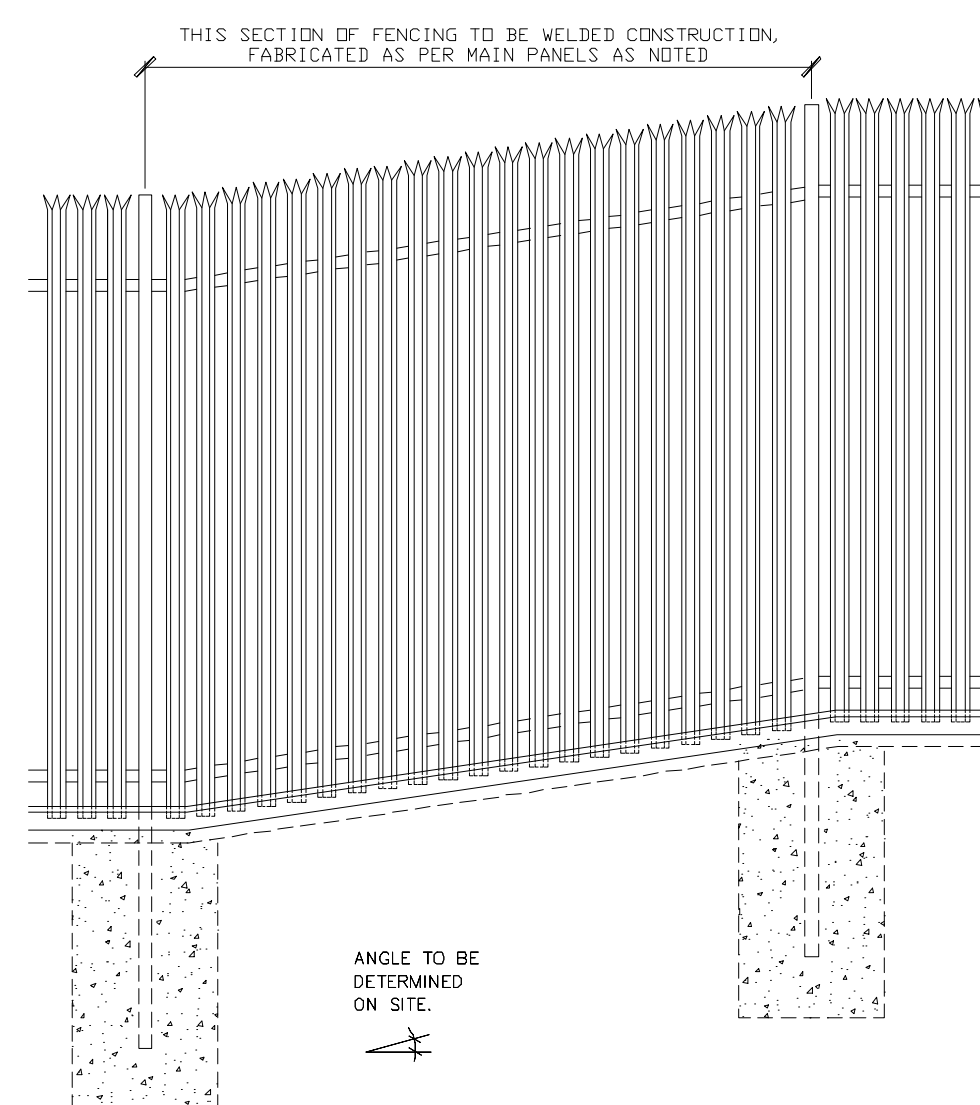
NOTE: 75MM EARTHING DUCT TO BE PROVIDED AT EVERY SECOND POST



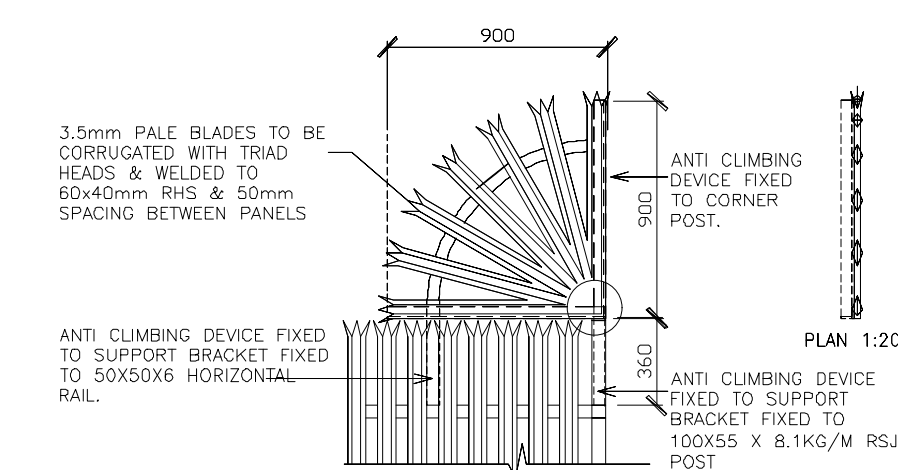
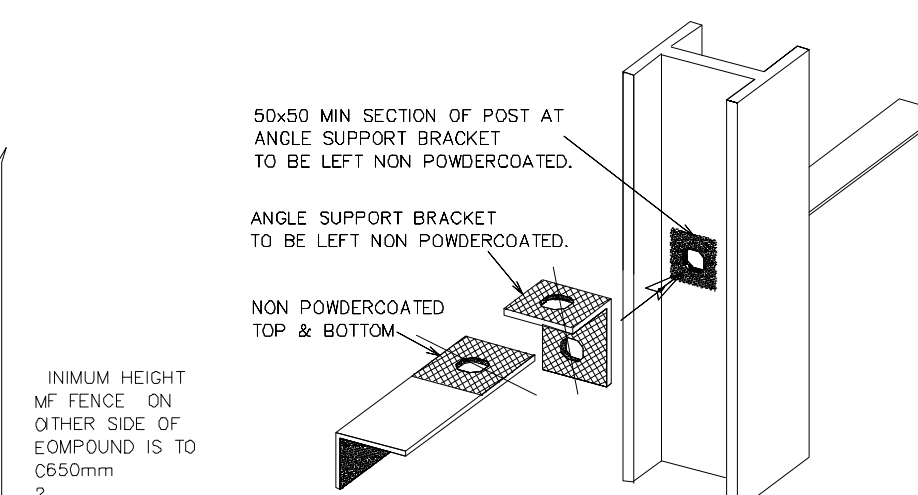
DETAIL WHERE THERE IS MADE-UP GROUND
SCALE 1:50



STEP(S) IN PALISADE FENCE (WHERE APPLICABLE)
SCALE 1:50



ELEVATION TO TYPICAL SLOPED SECTION OF FENCING
SCALE 1:50



DETAILS OF ANTI-CLIMBING AID (WHERE APPLICABLE)
SCALE 1:50

REV	DATE	DESCRIPTION	BY	APP
P02	16/01/25	UPDATED AS PER COMMENTS	SK	JB
P01	26/04/24	ISSUED FOR INFORMATION	SK	JB

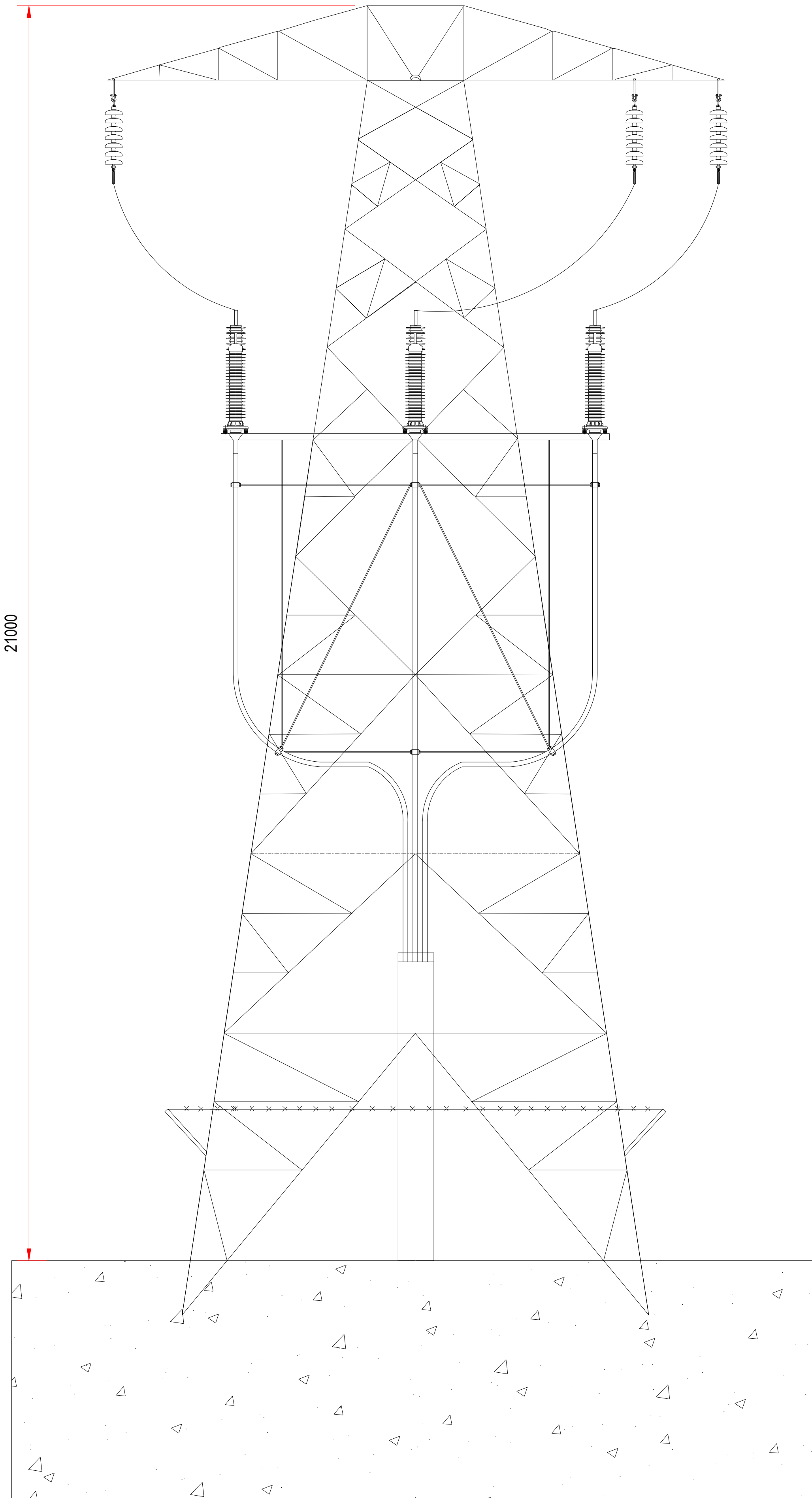
PROJECT: GARRANE GREEN ENERGY PROJECT

TITLE: Palisade Fence Typical Details

CLIENT: Garrane Green Energy



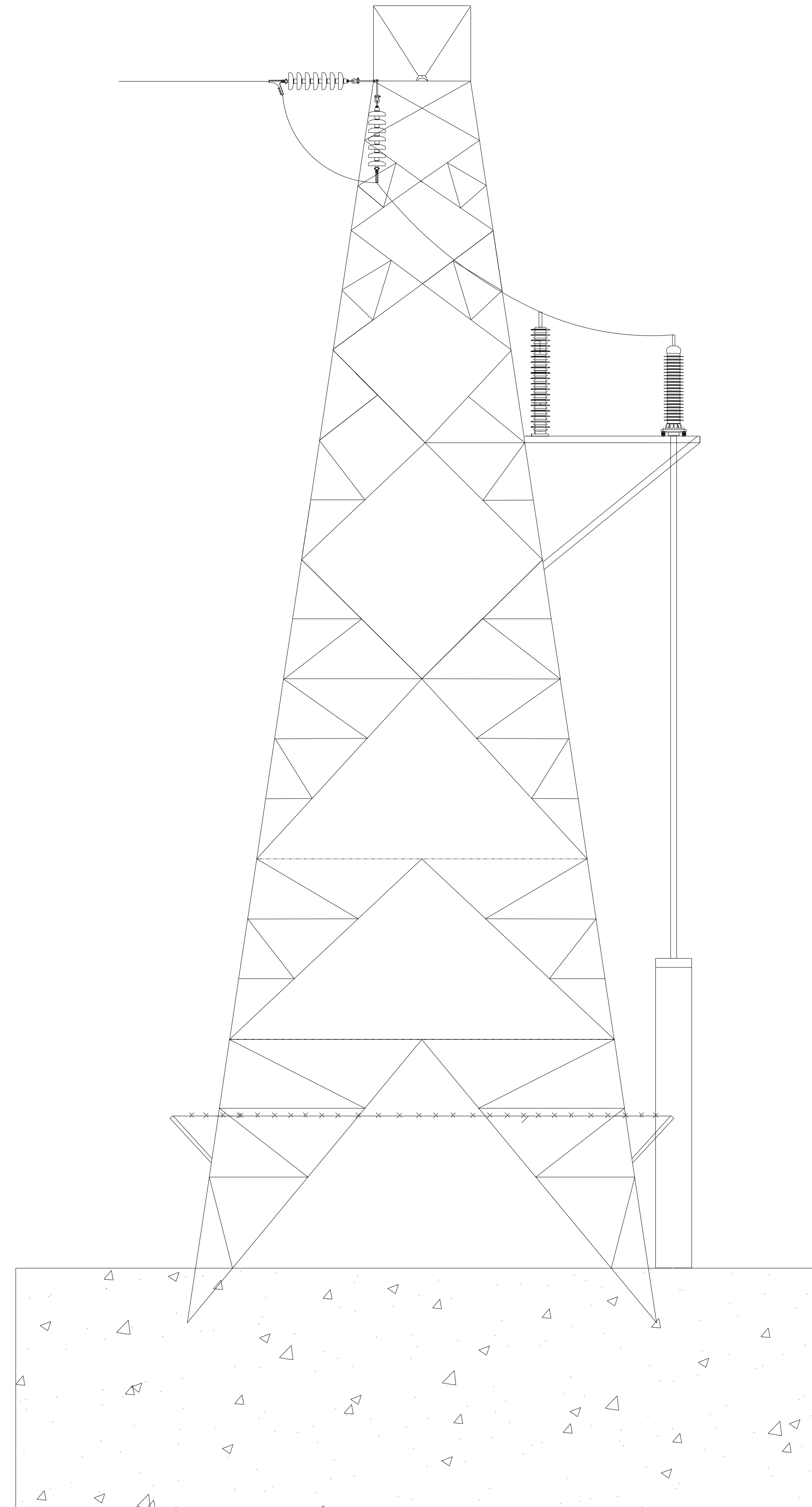
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PROJECT NUMBER: 3337	DATE: 16 Jan 2025	SCALE @ A1: As Shown
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2
DRAWING NUMBER: 3337-SUIR-SS-DR-C-2410	REV: P02	



FRONT ELEVATION

HEIGHT OF TOWER IS SUBJECT TO CHANGE.
DEPENDENT ON EXISTING 110 KV LINE
PROFILE AND POLESETS. TO BE CONFIRMED
WITH DETAILED DESIGN IN CO-ORDINATION
WITH EIRGRID AND MANUFACTURERS
SPECIFICATION.

FOUNDATIONS SHOWN ARE PURELY
INDICATIVE. DESIGN OF FOUNDATIONS WILL
BE CARRIED OUT AT DETAILED DESIGN
STAGE BASED ON A GEOTECHNICAL
INVESTIGATION OF THE GROUND IN THE
AREA SHOWN ON PLAN LAYOUTS



SIDE ELEVATION

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REV	DATE	DESCRIPTION	BY	APP
P02	16/01/25	UPDATED AS PER COMMENTS	SK	JB
P01	26/04/24	ISSUED FOR INFORMATION	SK	JB

PROJECT: GARRANE GREEN ENERGY PROJECT

TITLE: Line Cable Interface Mast (LCIM) Typical Detail

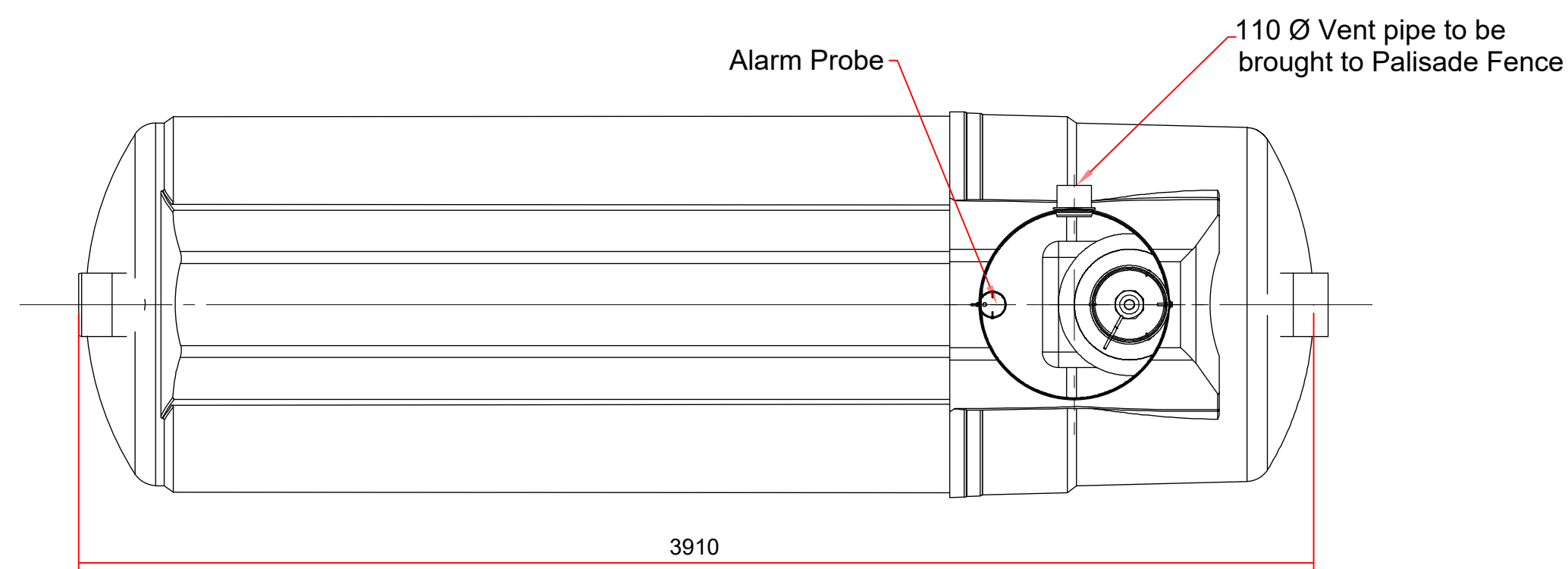
CLIENT: Garrane Green Energy 



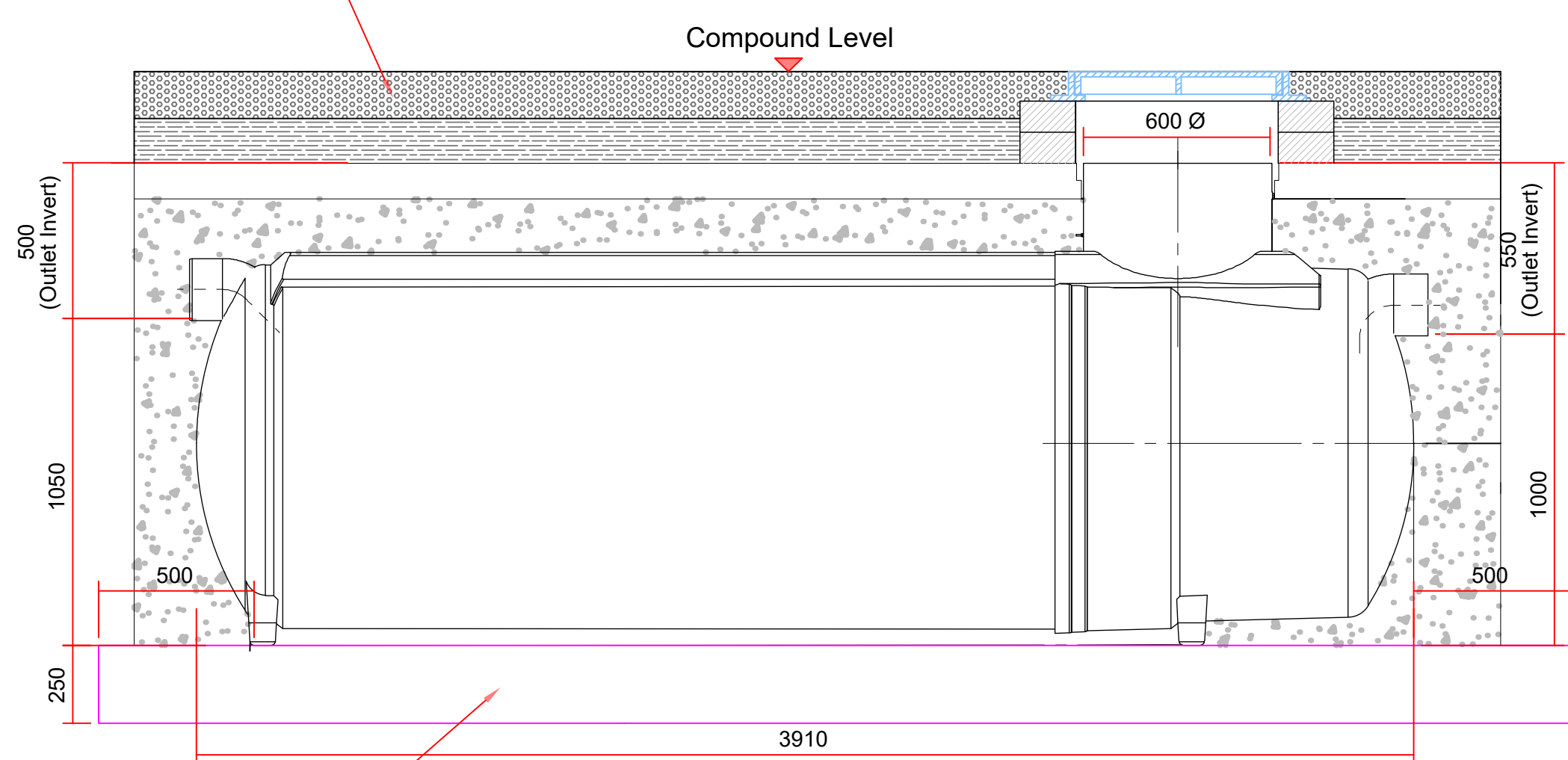
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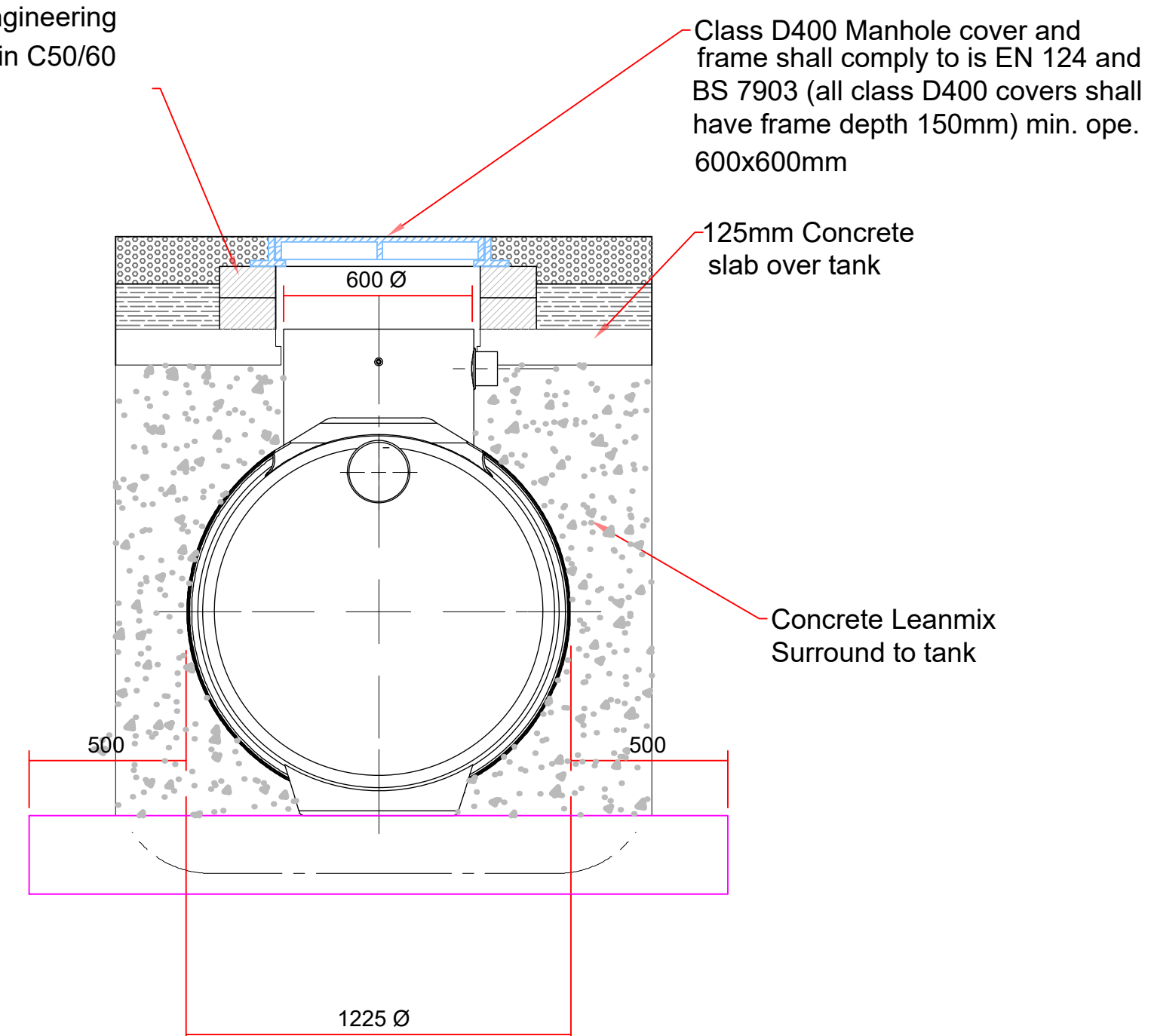


150mm thick top layer of compound stone consisting of 50mm single sized crushed limestone on terram 1300 geotextile membrane



250mm Thk RC Base with 2 layers A393 mesh (1T,1B)

1 No. course min. and 3 No. courses max. of class B engineering bricks set in C50/60 mortar



TYPICAL FULL RETENTION CLASS 1 INTERCEPTOR
NSFA015 fitted with an oil fuel alarm and an adaptor for the larger diameter 225mm pipe. Allow for 50mm standard drop across the interceptor.

Scale 1:20

Note:
 The final details/sizing of the interceptor are subject to confirmation and detailed review on receipt of the transformer suppliers construction drawings. This drawing will be resubmitted once these details are finalised prior to construction. Date of reissue to be confirmed.

REV	DATE	DESCRIPTION	BY	APP
P02	16/01/25	UPDATED AS PER COMMENTS	SK	JB
P01	11/11/24	ISSUED FOR INFORMATION	SK	JB

PROJECT: GARRANE GREEN ENERGY PROJECT

TITLE: Typical Oil Interceptor Tank Details

CLIENT: Garrane Green Energy



DRAWN: SK CHECKED: JB APPROVED: TS

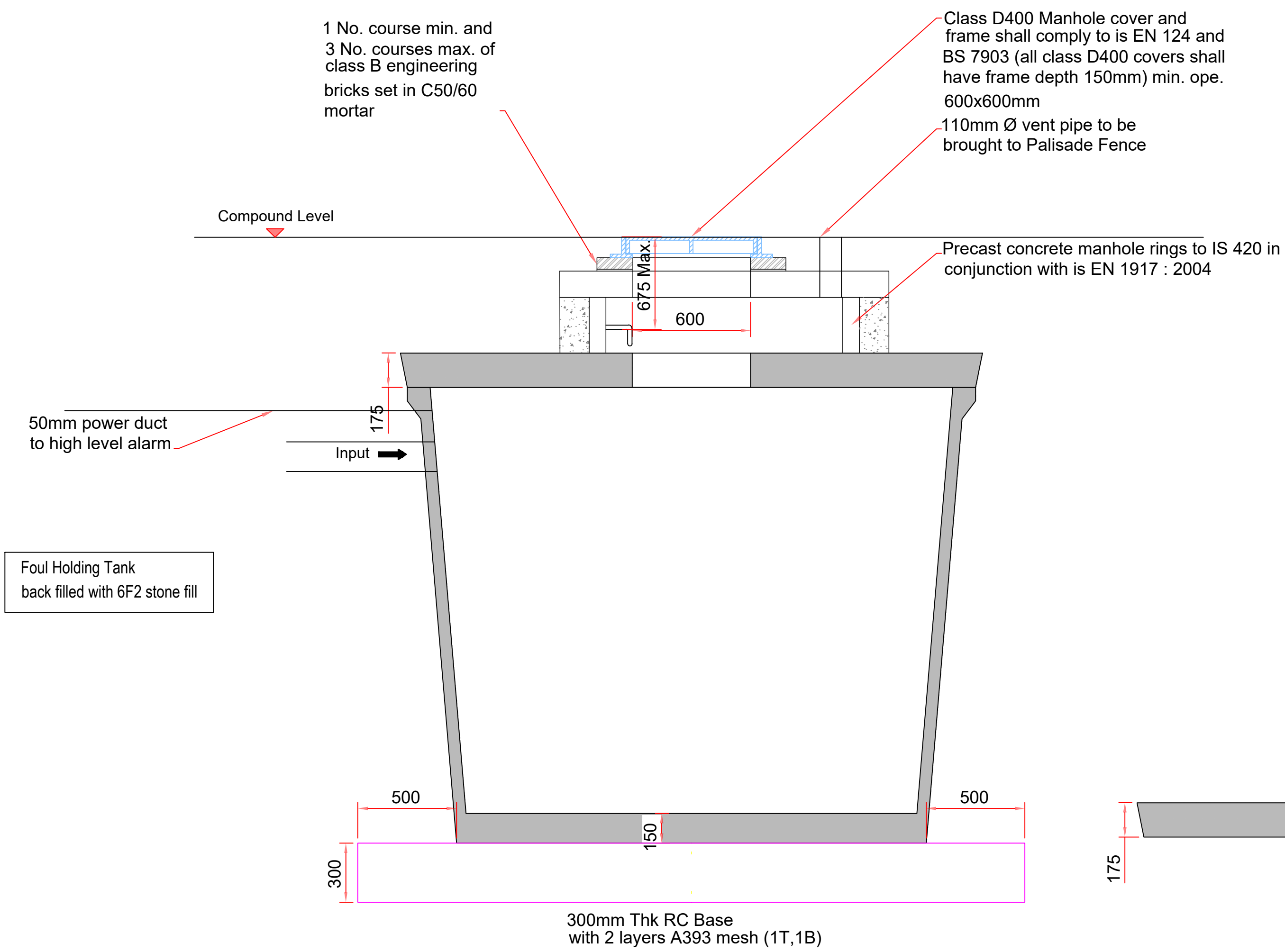
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STATUS DESCRIPTION: FOR INFORMATION STATUS: S2

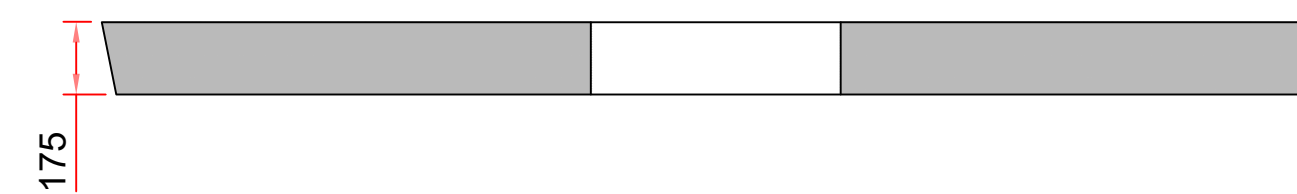
DRAWING NUMBER: 3337-SUIR-SS-DR-C-2412 REV: P02

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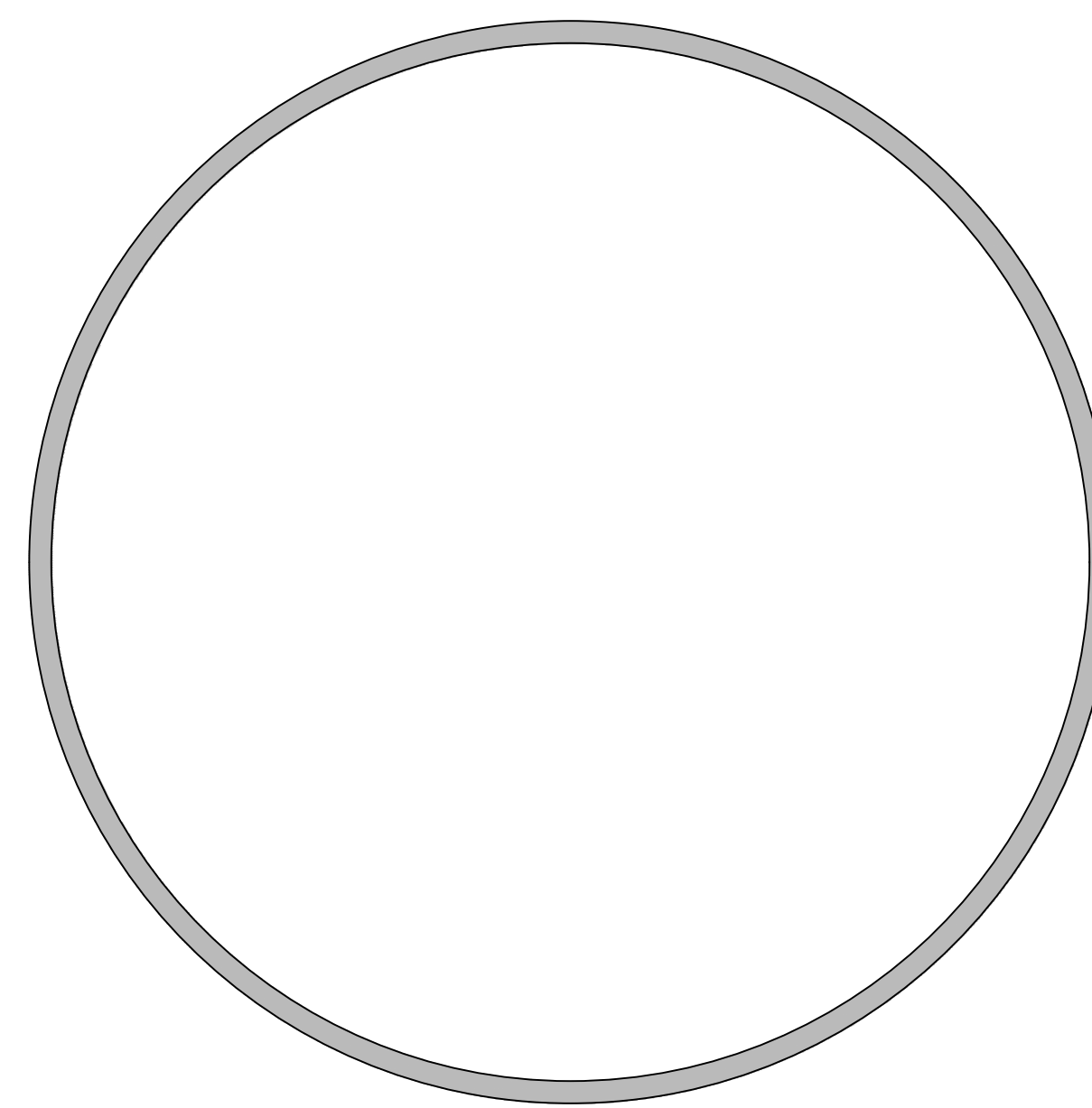
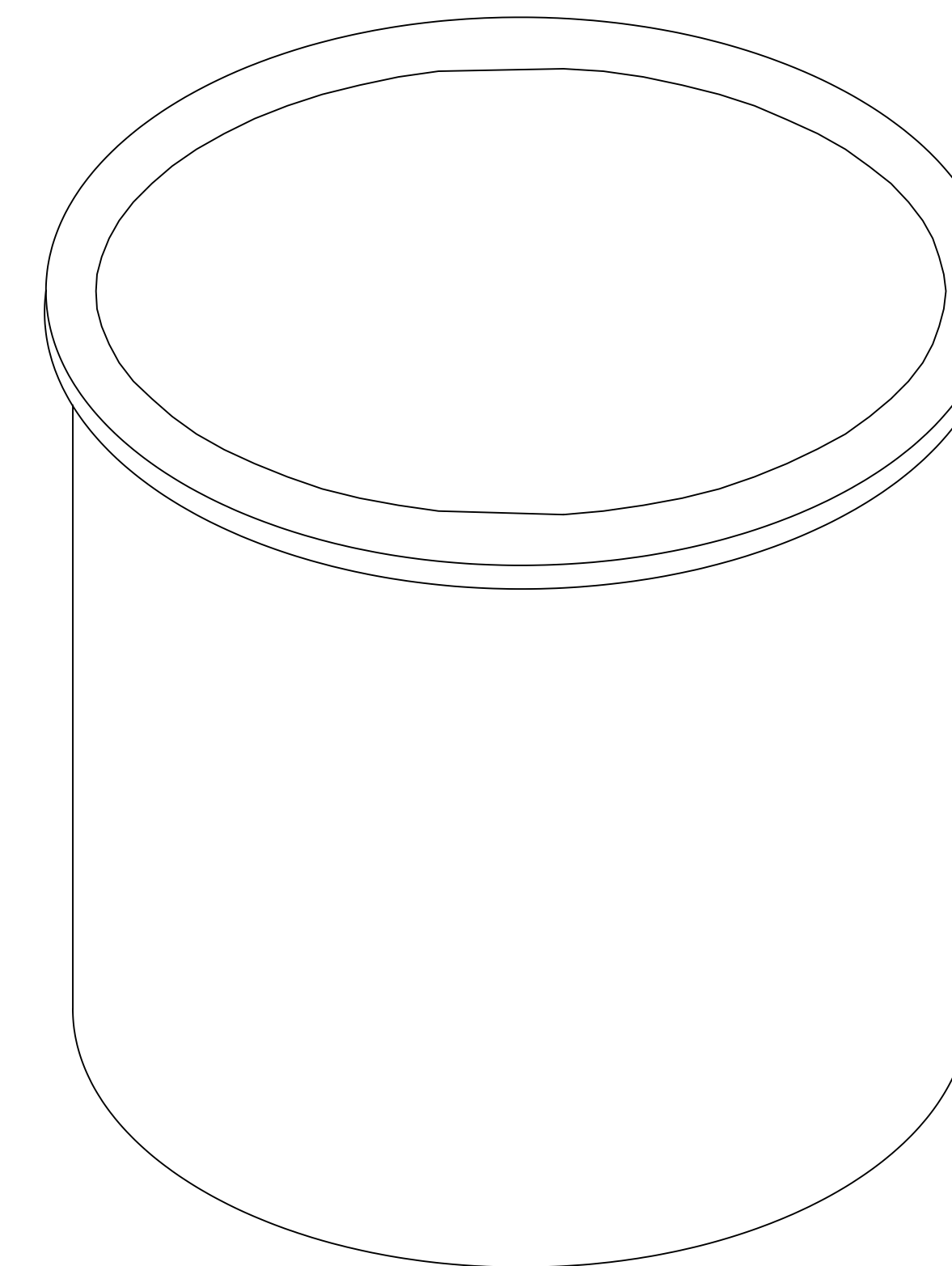
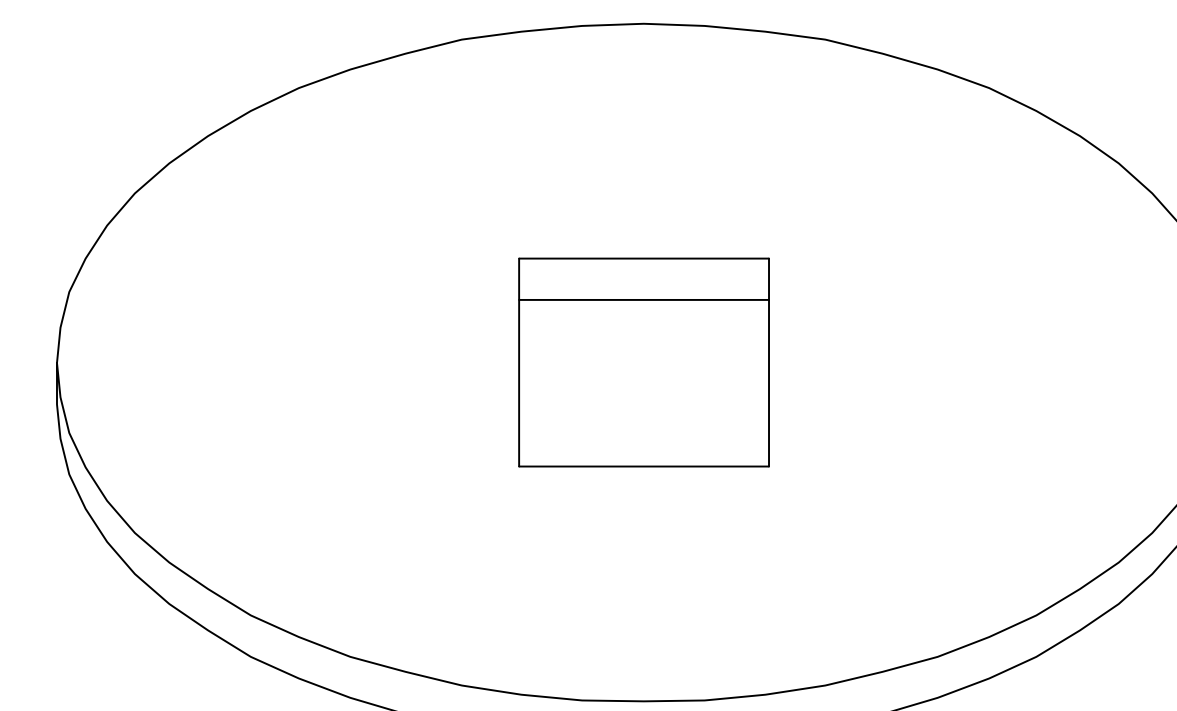
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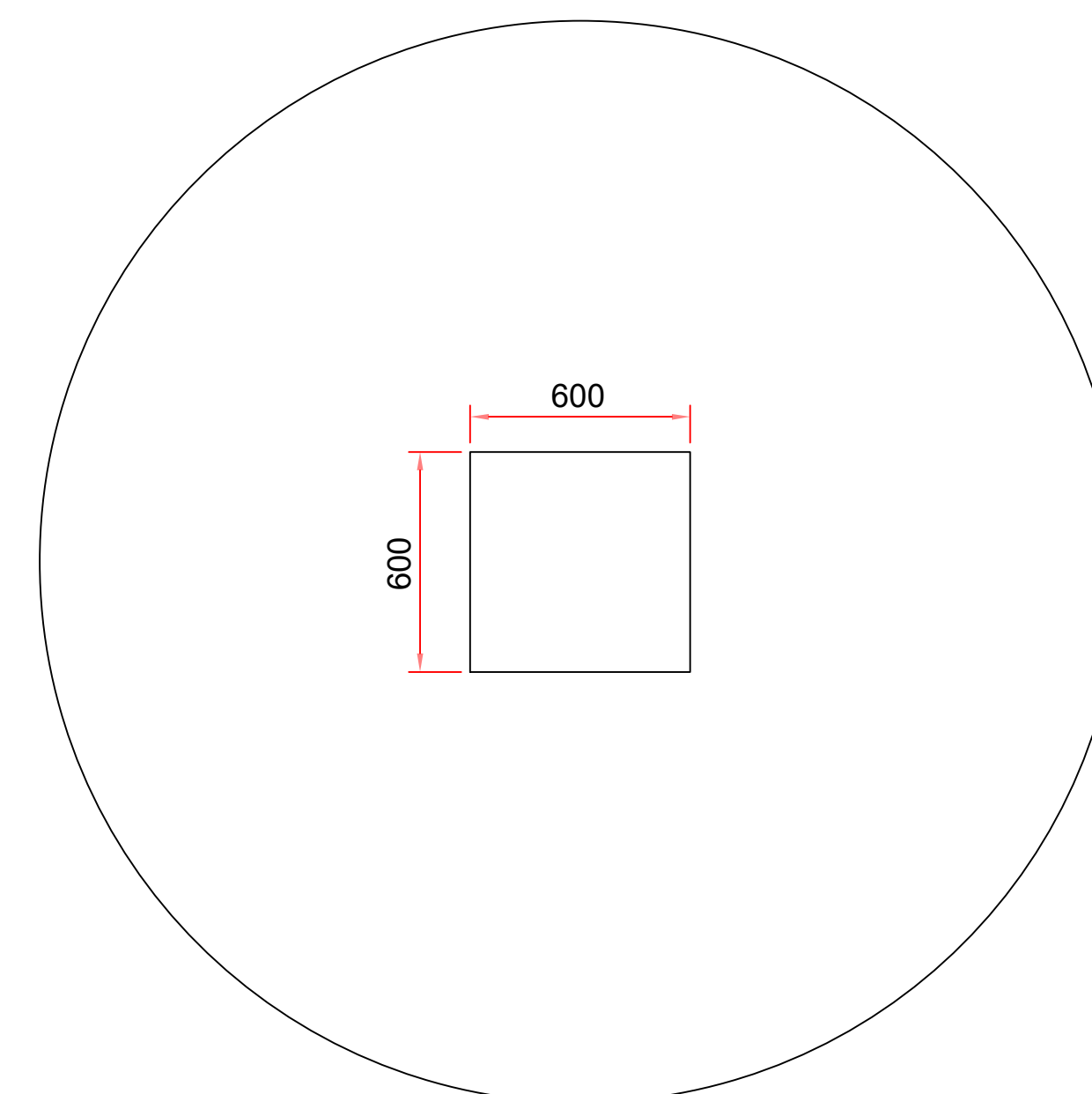
TANK VERTICAL SECTION



LID SECTION



TANK TOP PLAN



LID TOP PLAN

FOUL SEWER HOLDING TANK
(VOLUME 5m³)

SCALE: 1:25

REV	DATE	DESCRIPTION	BY	APP
P02	16/01/25	UPDATED AS PER COMMENTS	SK	JB
P01	11/11/24	ISSUED FOR INFORMATION	SK	JB

PROJECT: GARRANE GREEN ENERGY PROJECT

TITLE: Typical Effluent Tank Details

CLIENT: Garrane Green Energy



DRAWN: SK CHECKED: JB APPROVED: TS

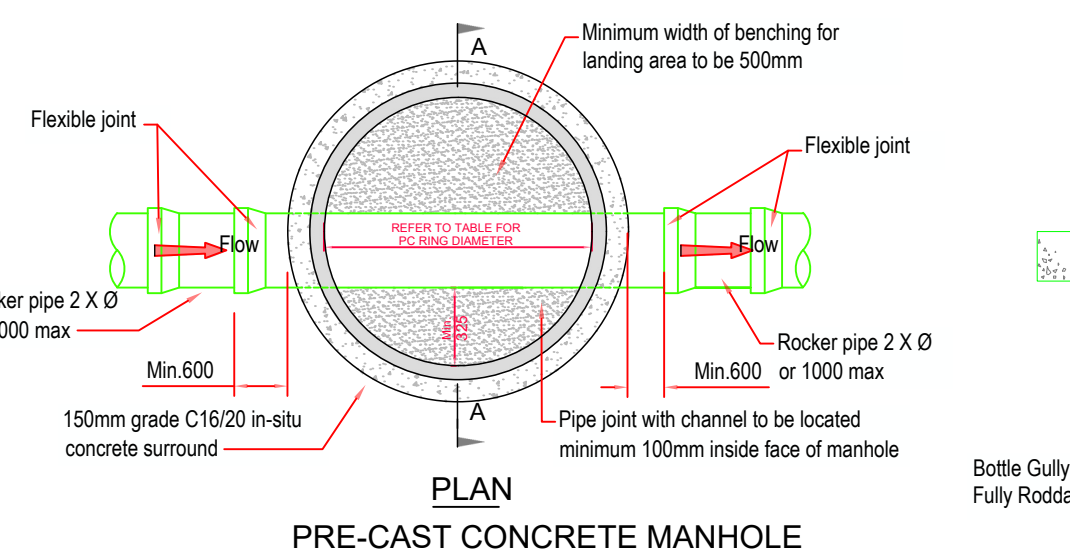
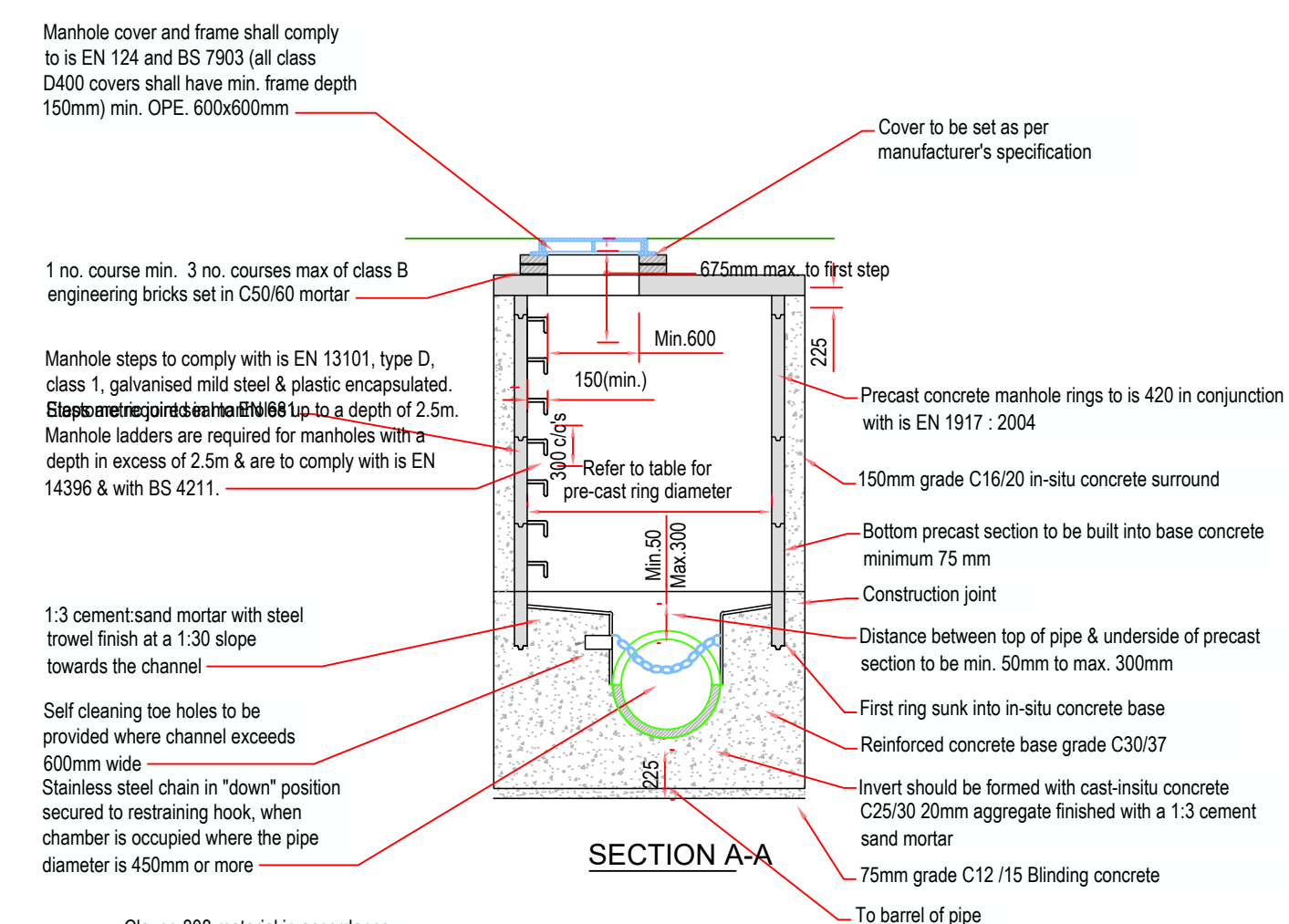
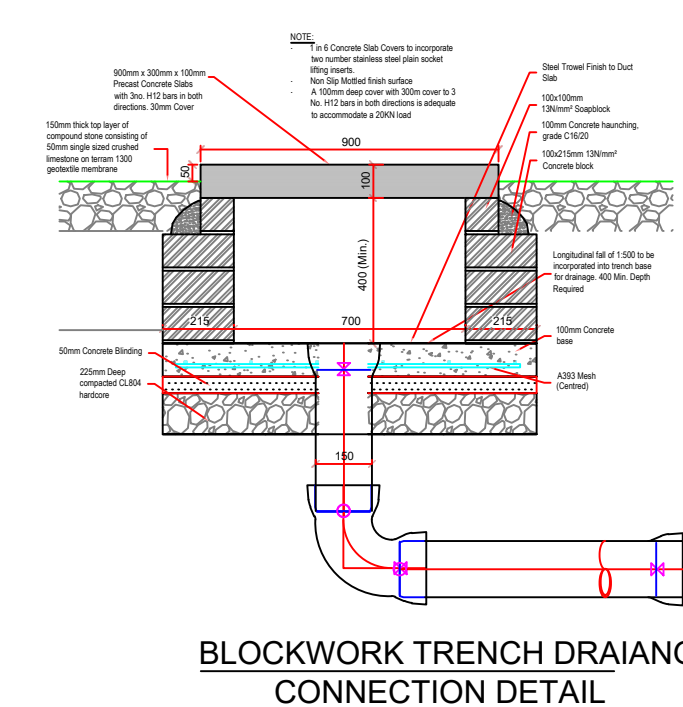
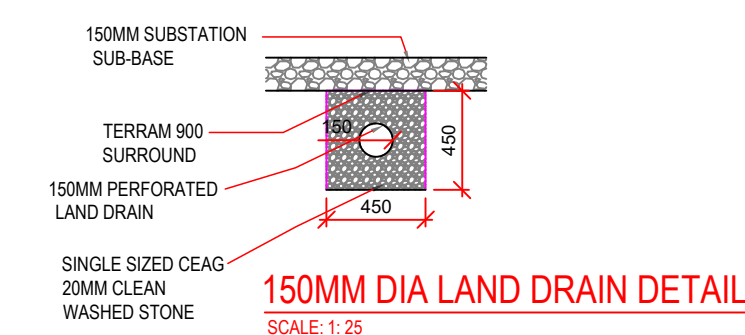
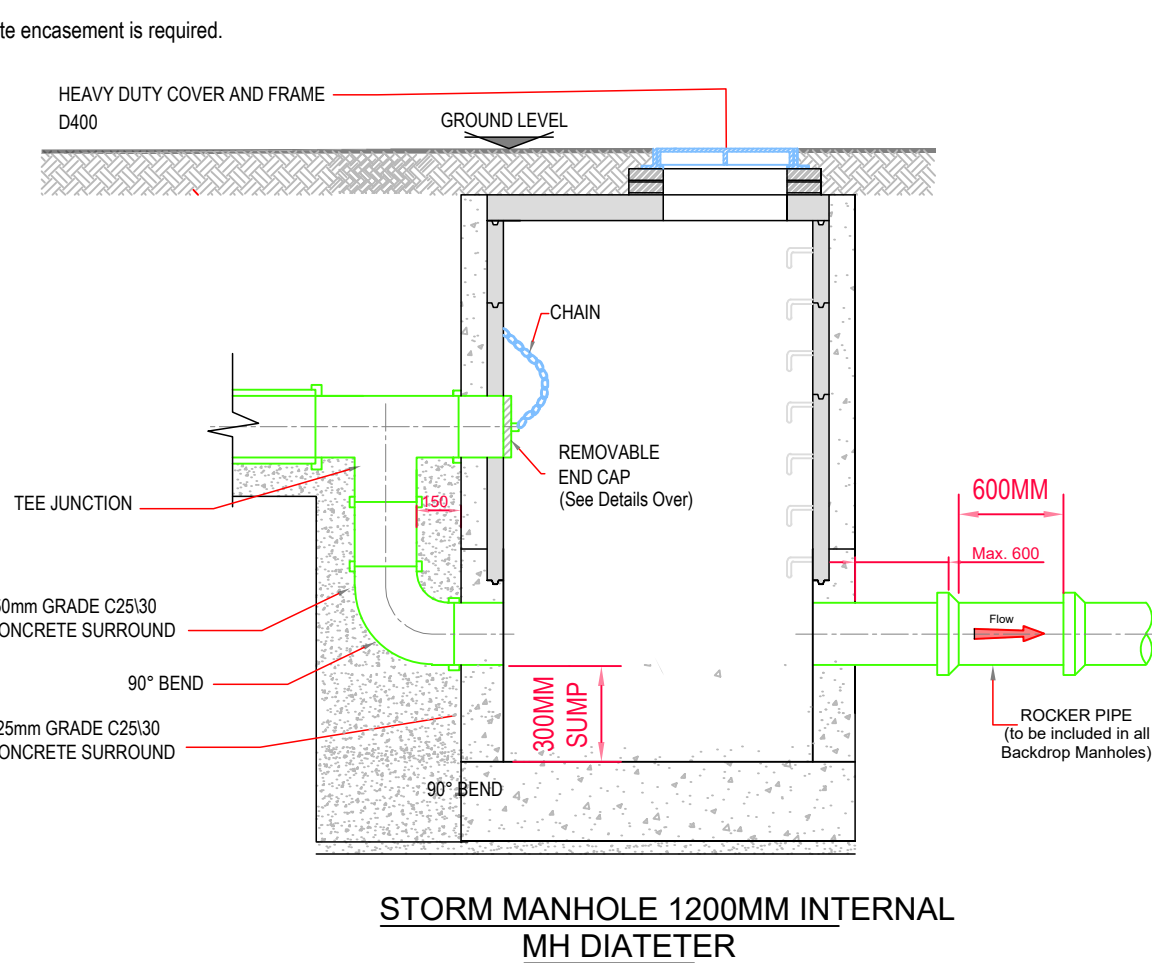
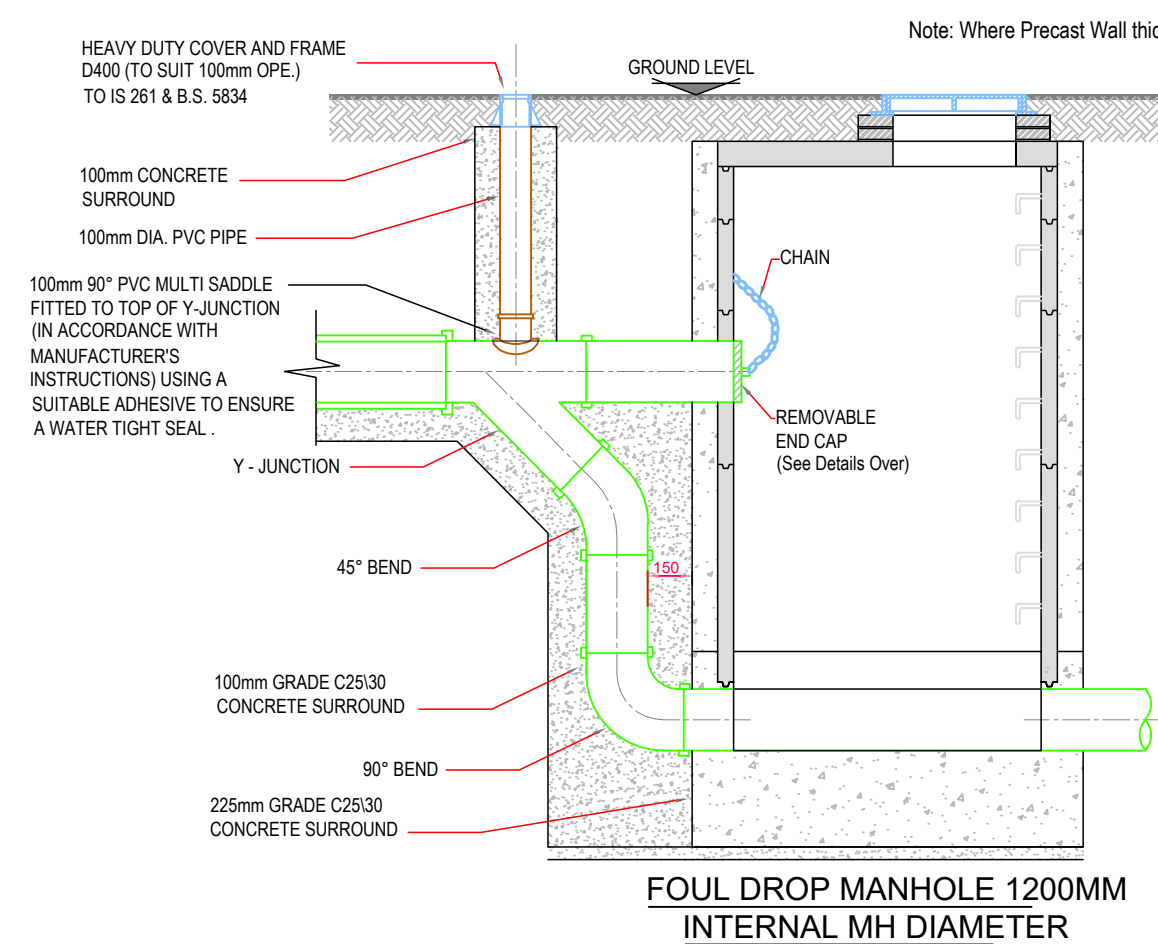
PROJECT NUMBER: 3337 DATE: 16 Jan 2025 SCALE @ A1: As Shown

STATUS DESCRIPTION: FOR INFORMATION STATUS: S2

DRAWING NUMBER: 3337-SUIR-SS-DR-C-2413 REV: P02

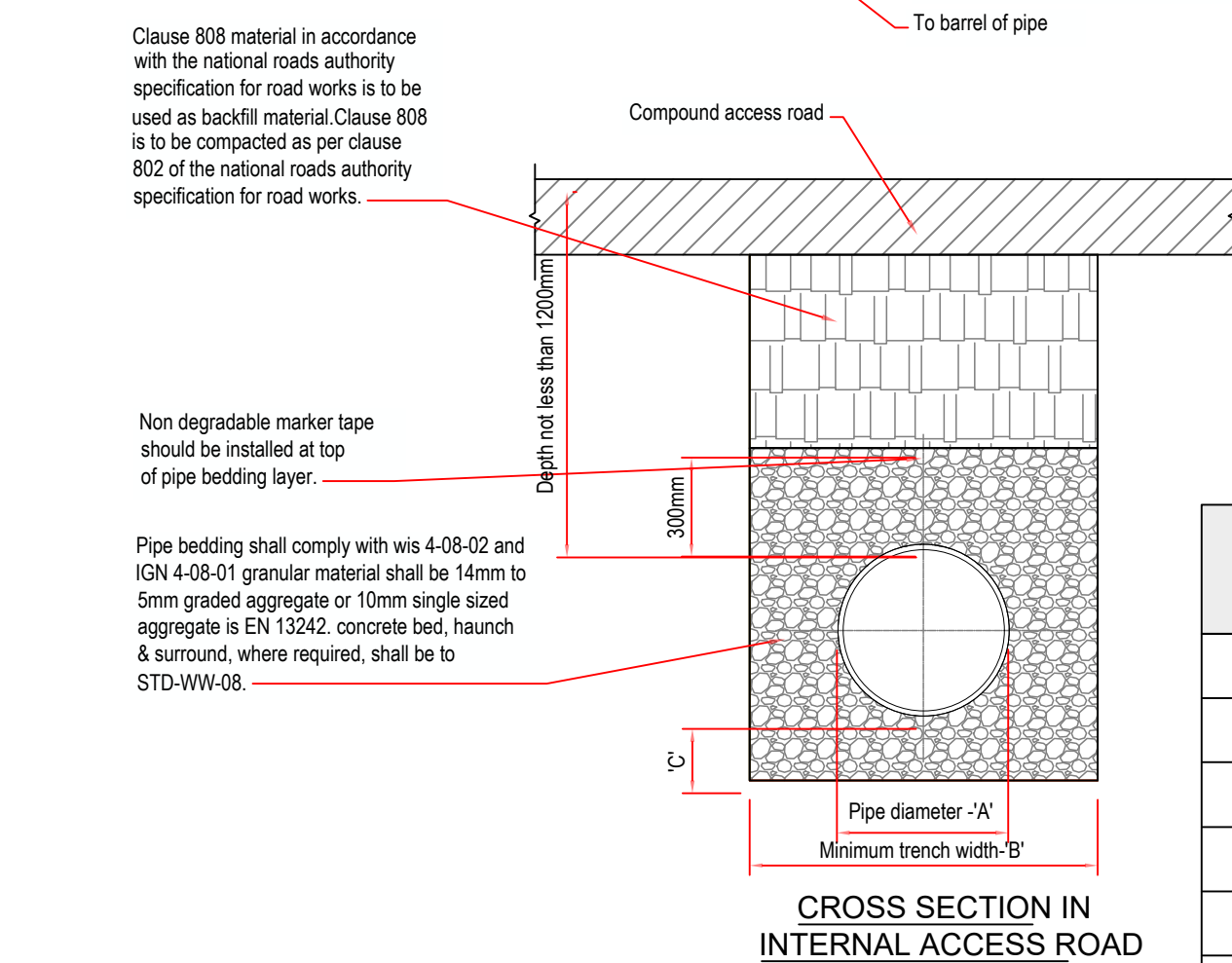
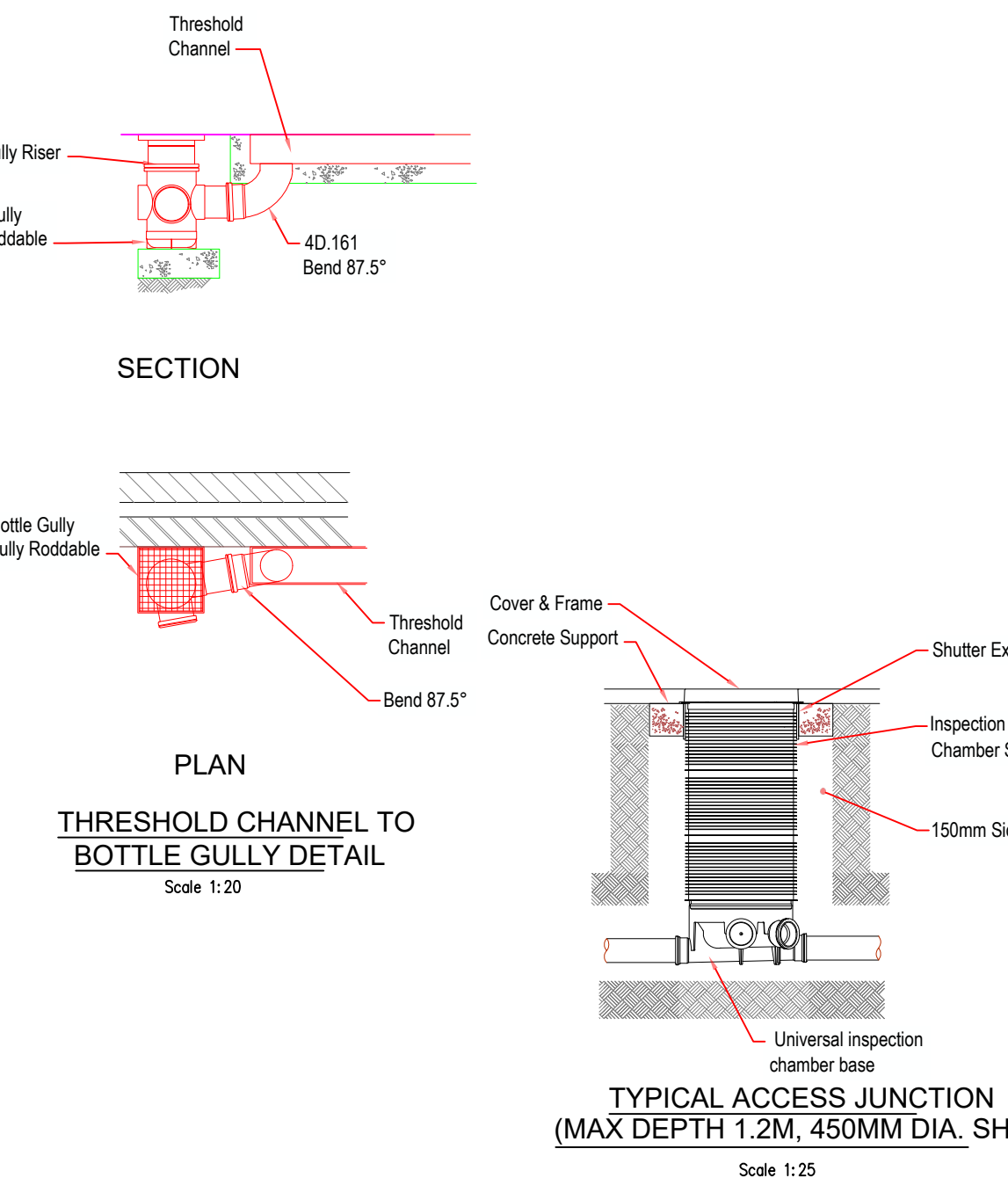
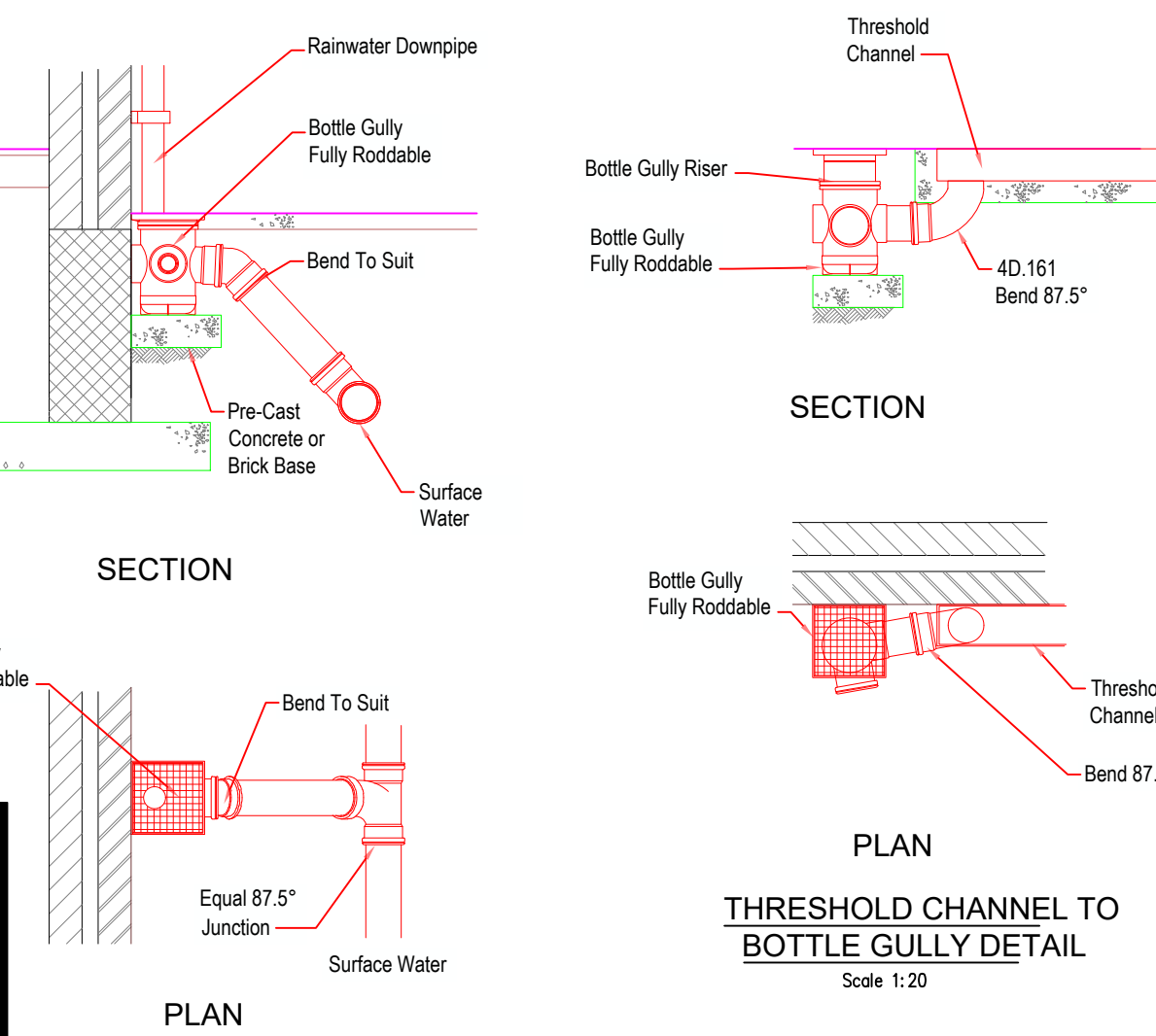
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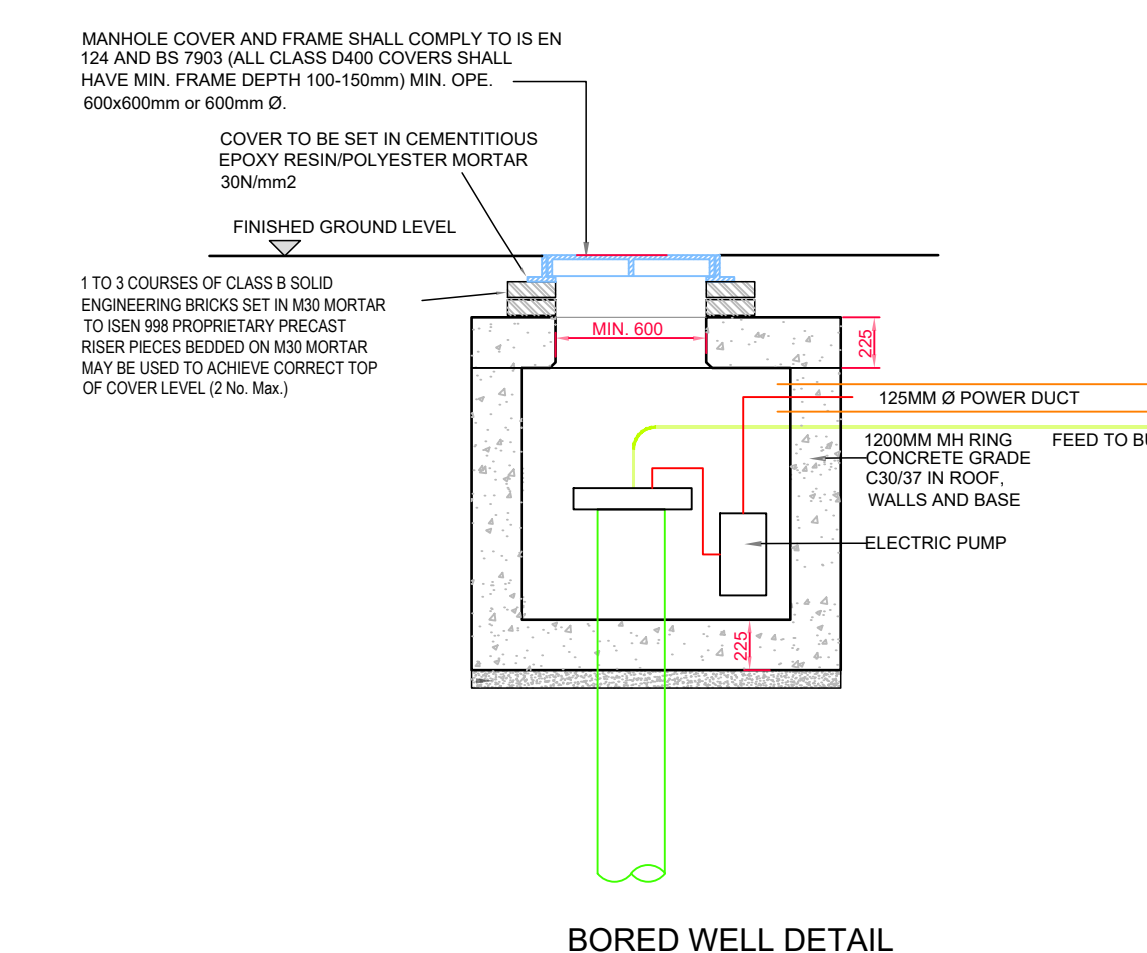
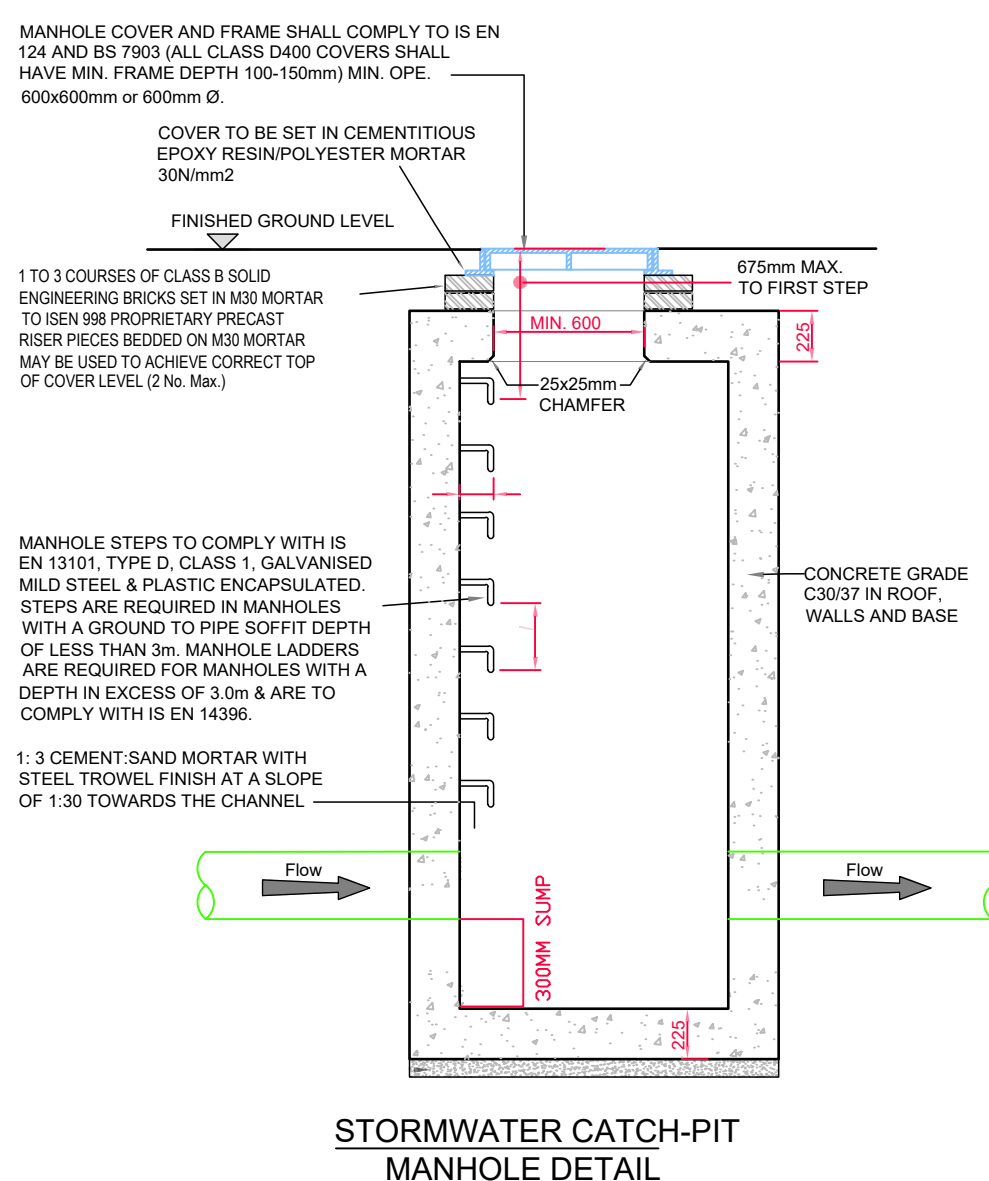
MINIMUM MANHOLE DIAMETERS	
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200
375 TO 450	1350
500 TO 750	1500

BACKDROP MANHOLES
Not to Scale



PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)
100	500
150	600
200	600
250	750
300	750
350	750
400	900
450	900

PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
100	100
150 - 450	200



1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. CONCRETE PIPE BEDS AND HAUNCHES REQUIRED WHERE MINIMUM COVER IS LESS THAN 1200MM ROAD.
3. CONCRETE PIPE BEDS AND HAUNCHES SHALL HAVE A MINIMUM THICKNESS.
4. CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 AND TO BE CLASS C30/37.
5. THE HAUNCHES AND SURROUNDS TO BE FORMED USING FORM WORK TO PROVIDE A ROUGH CAST FINISH.
6. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR PIPE FLEXIBILITY. COMPRESSIBLE FILLER BOARD TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4, AND TO BE 18mm THICK.
7. POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.
8. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES.
9. DETAILED DESIGN OF BORED WELL AS SHOWN ON THE DRAINAGE LAYOUT DRAWING TO BE CARRIED OUT BY SPECIALIST.

REV	DATE	DESCRIPTION	BY	APP
P02	16/01/25	UPDATED AS PER COMMENTS	SK	JB
P01	11/11/24	ISSUED FOR INFORMATION	SK	JB

GARRANE GREEN ENERGY PROJECT

CLIENT: Garrane Green Energy

SUIR ENGINEERING

STATUS: S2

FOR INFORMATION

DATE: 16 Jan 2025

SCALE @ A1: As Shown

DRAWING NUMBER: 3337-SUIR-SS-DR-C-2414

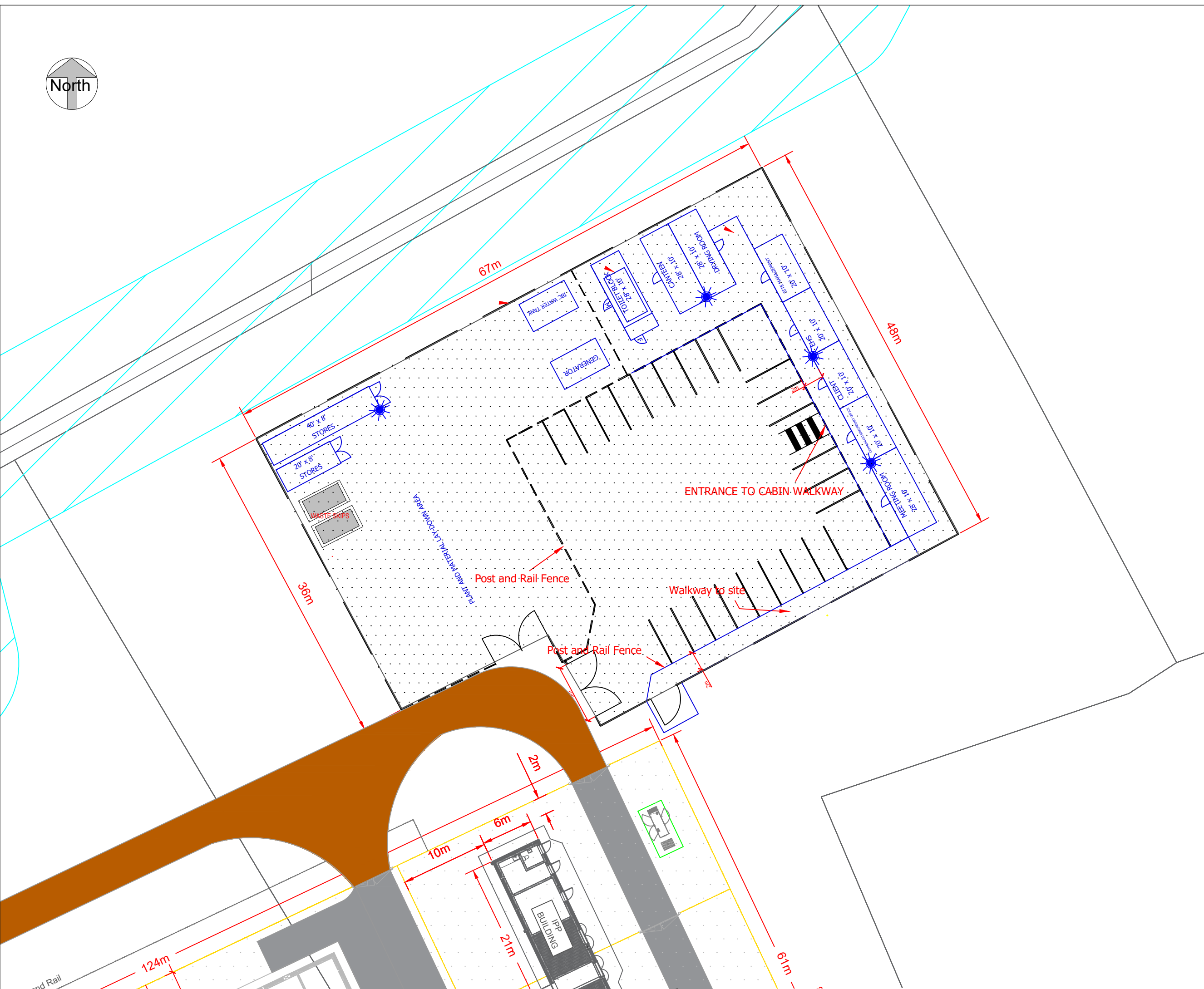
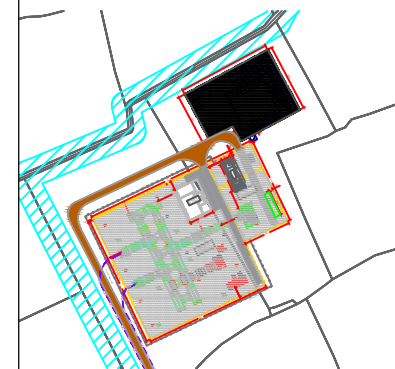
REV: P02



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LEGEND	
	GRAVEL/STONE SURFACE
	COMPOUND STONE ACCESS ROADS
	CONCRETE ACCESS ROAD
	LANDS UNDER CONTROL OF APPLICANT
	PLANNING APPLICATION BOUNDARY
	10m DRAIN BUFFER



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REV	DATE	DESCRIPTION	BY	APP
P03	15/05/25	UPDATED AS PER COMMENTS	SK	JB
P02	14/05/25	UPDATED IPP BUILDING	SK	JB
P01	16/01/25	UPDATED AS PER COMMENTS	SK	JB
P01	11/11/24	ISSUED FOR INFORMATION	SK	JB

PROJECT: GARRANE GREEN ENERGY PROJECT

TITLE: Construction Temporary Compound Layout

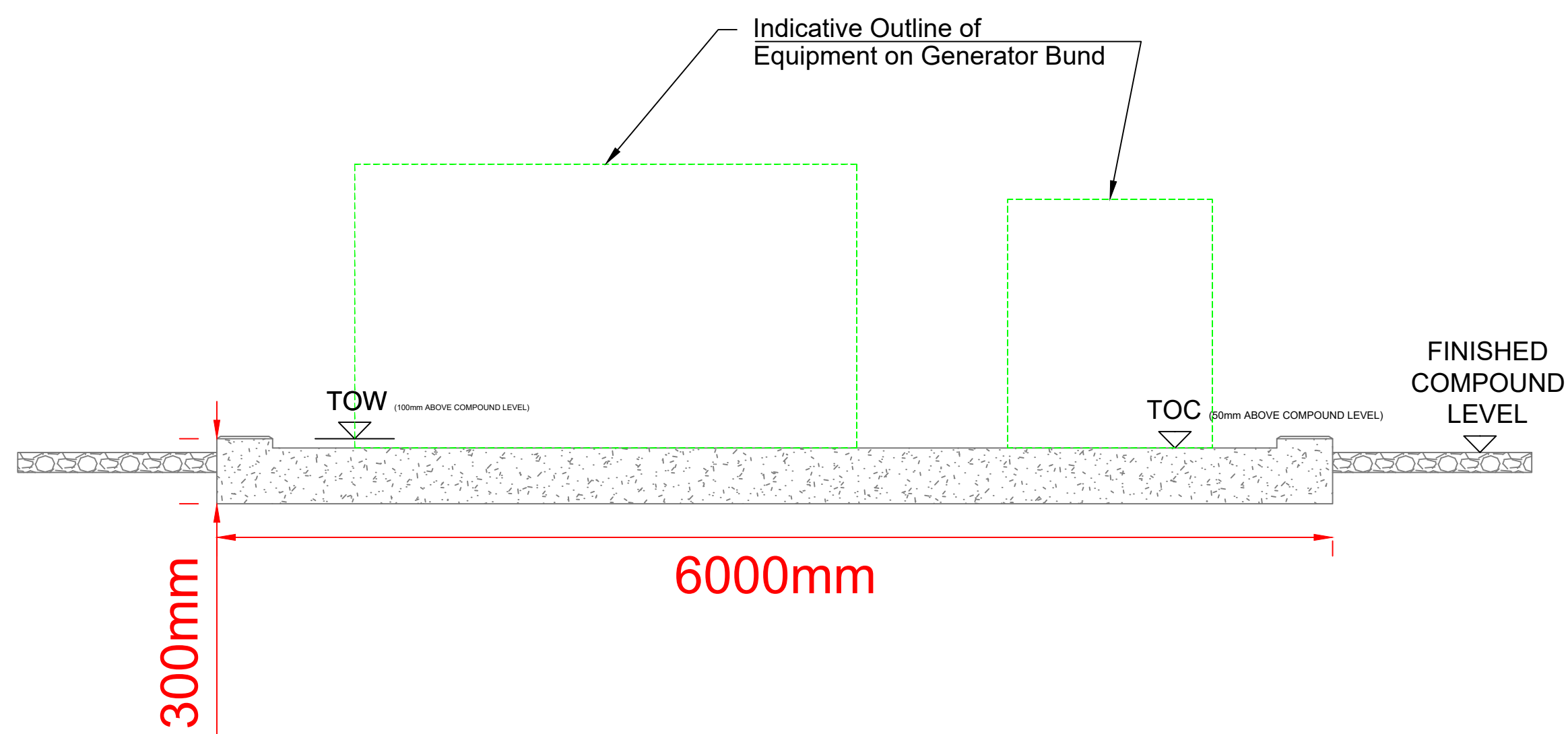
CLIENT: Garrane Green Energy



DRAWN: SK	CHECKED: JB	APPROVED: TS
PROJECT NUMBER: 3337	DATE: 15 May 2025	SCALE @ A1: 1:200
STATUS DESCRIPTION: FOR INFORMATION		STATUS: S2
DRAWING NUMBER: 3337-SUIR-SS-DR-C-2415		REV: P04

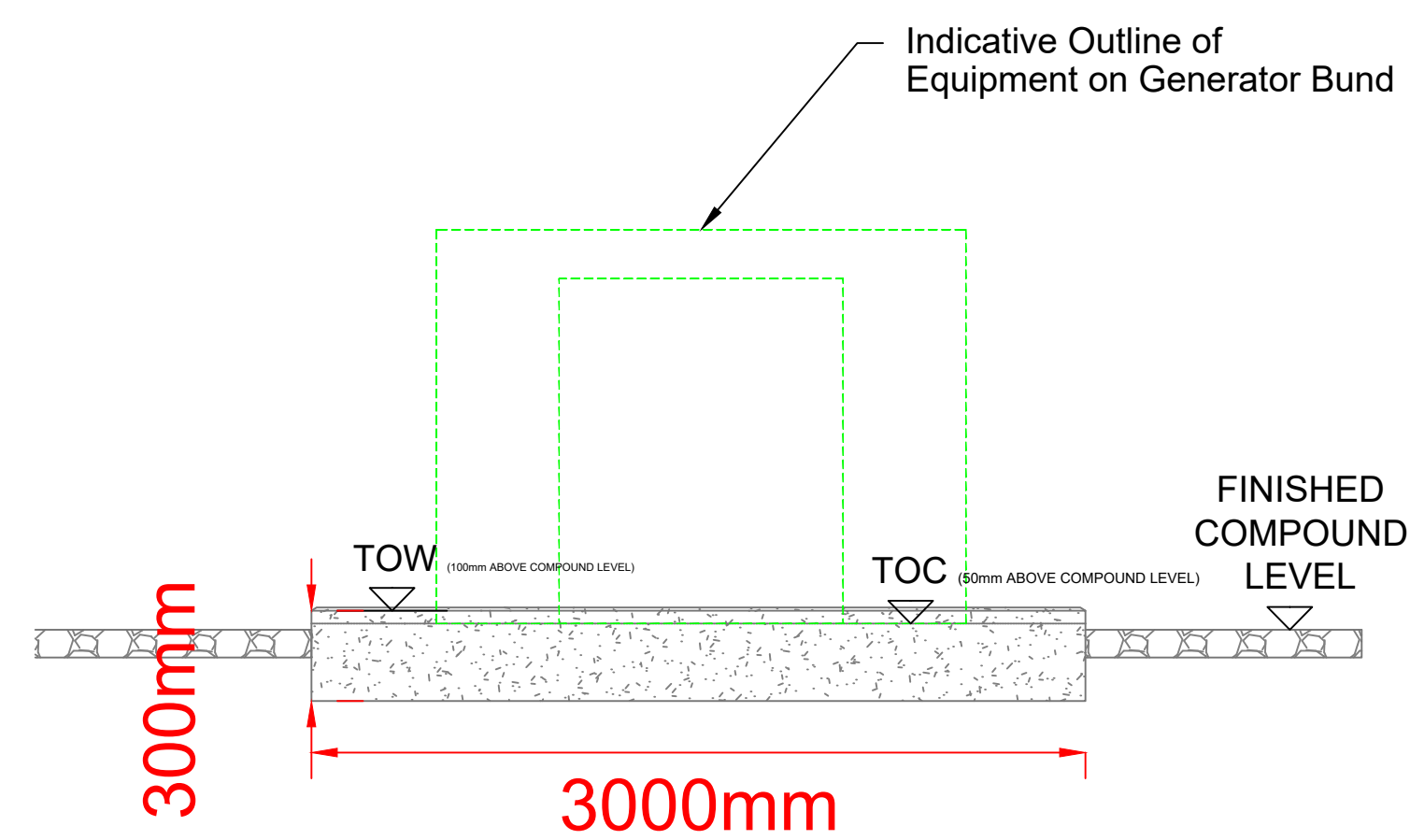
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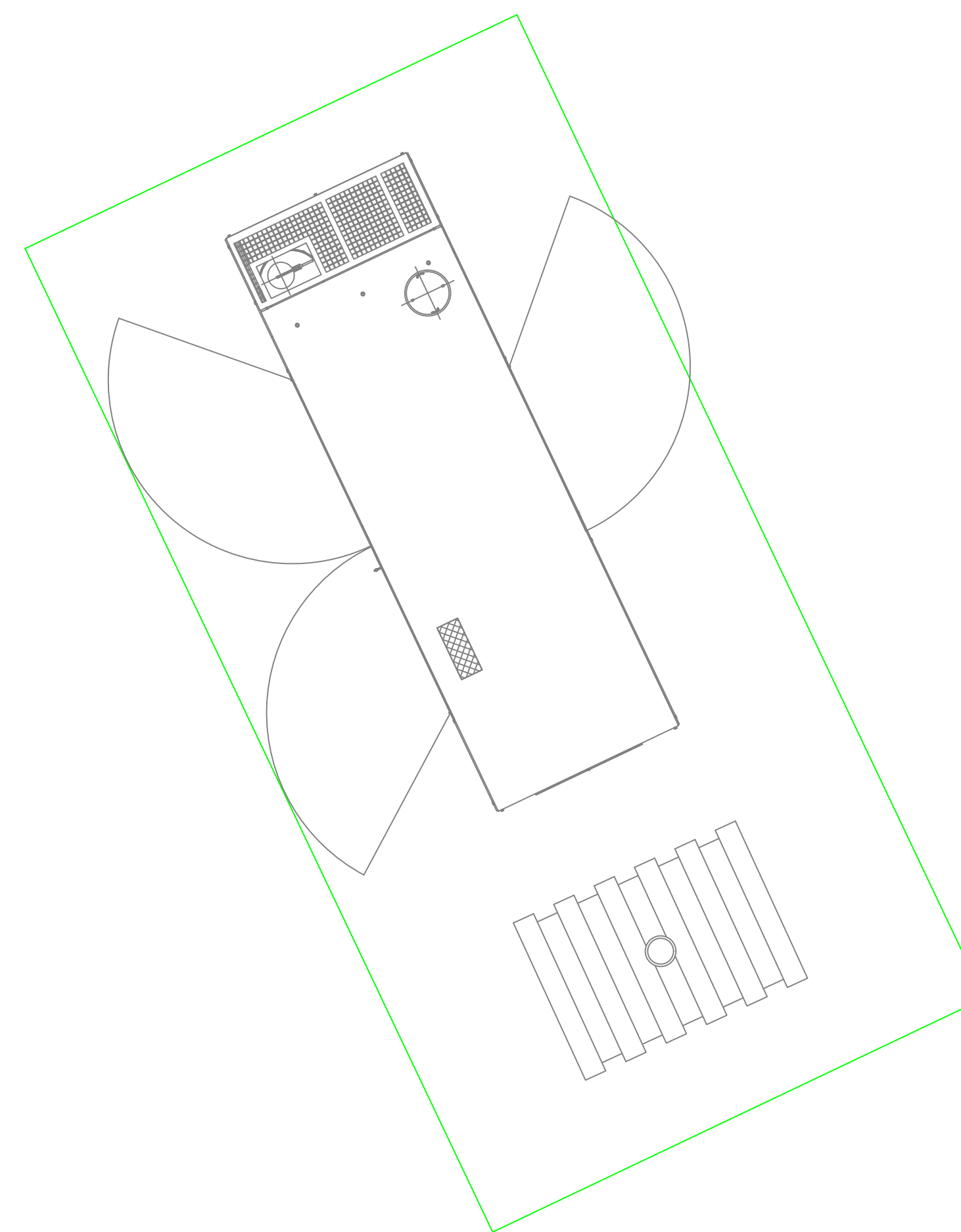
GENERATOR BUND DETAIL - FRONT ELEVATION

SCALE - 1:50



GENERATOR BUND DETAIL - SIDE ELEVATION

SCALE - 1:50



GENERATOR BUND DETAIL - PLAN VIEW

SCALE - 1:50

TYPICAL BUND DETAIL FOR THE DIESEL GENERATOR BUND REQUIRED AS PART OF THE SUBSTATION DEVELOPMENT (AS SHOWN ON PLAN DRAWINGS) - DETAILED DESIGN TO BE CARRIED OUT. BUND TO BE DESIGNED TO HAVE HOLDING CAPACITY FOR ALL CONTAMINANTS IN THE EVENT OF EQUIPMENT FAILURE

REV	DATE	DESCRIPTION	BY	APP
P02	16/01/25	UPDATED AS PER COMMENTS	SK	JB
P01	11/11/24	ISSUED FOR INFORMATION	SK	JB

PROJECT:

GARRANE GREEN ENERGY PROJECT

TITLE:

Generator Bund Detail

CLIENT:

Garrane Green Energy

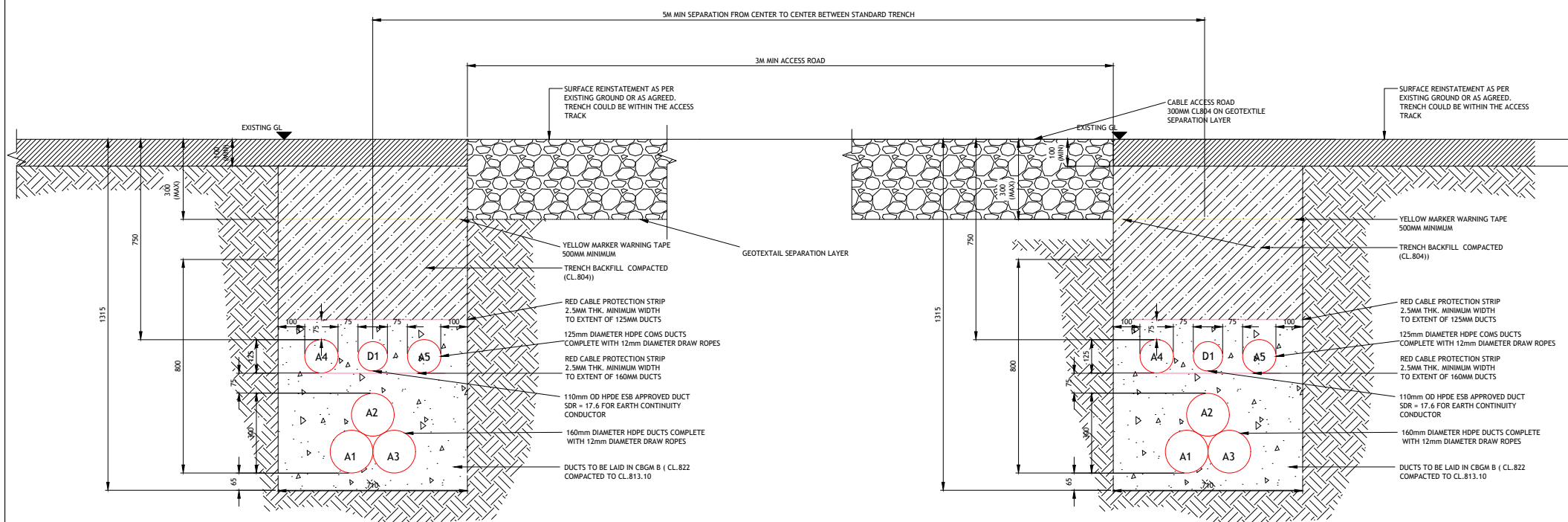


DRAWN: SK CHECKED: JB APPROVED: TS

PROJECT NUMBER: 3337 DATE: 16 Jan 2025 SCALE @ A1: As Shown

STATUS DESCRIPTION: FOR INFORMATION STATUS: S2

DRAWING NUMBER: 3337-SUIR-SS-DR-C-2416 REV: P02



STANDARD 110kV CIRCUIT ARRANGEMENT CROSS SECTION
SCALE 1:20

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R1	CD	JB	NOTES UPDATED	14/03/25
Rev.	Drawn	Chkd	Details of Revision	Date


CLIENT:

Garrane Green Energy 

PROJECT:

GARRANE 110kV SUBSTATION



DRAWN: CD	DATE: 19/11/24	JOB No.: P-3337
CHKD: JB	SCALE: 1:20	A3 

TITLE:

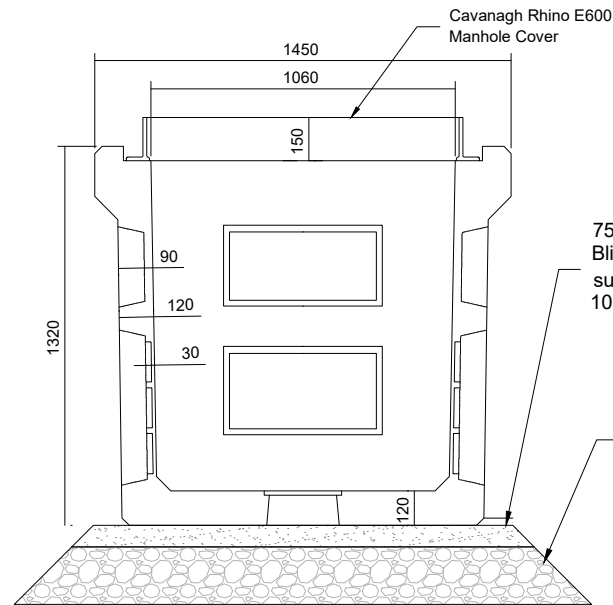
STANDARD 110kV CIRCUIT ARRANGEMENT CROSS SECTION

DRAWING STATUS: INFORMATION	ISSUE: R1
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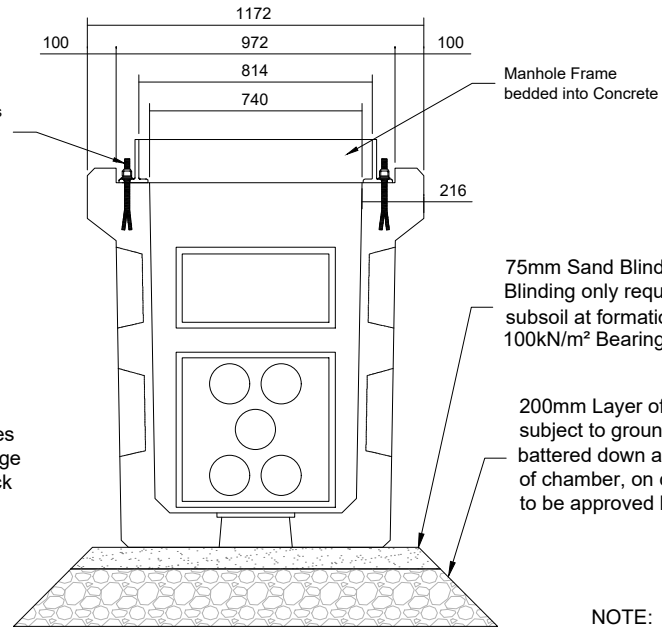
SUIR ENG. DRAWING No.: 3337-SUIR-GR-DR-C-3000

DRG. ORIG.: NA	ORIG. DRG. No.: NA
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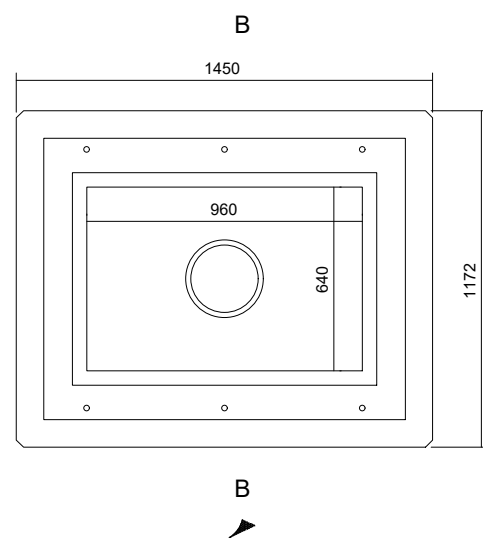
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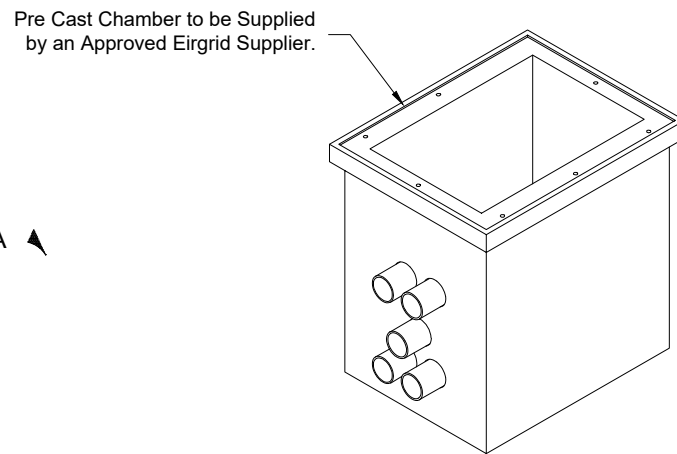
SECTION A - A
NTS



SECTION B - B
NTS



PLAN LAYOUT (E600 CHAMBER)
NTS



ISOMETRIC VIEW
NTS

NOTE:

1. ALL DIMENSION IN MILLIMETERS.
2. REINSTATEMENT TO COMPLY WITH REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY/ASSET OWNER.
3. ENTRANCE & EXIT DUCTS TO BE IN LINE.
4. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS.
5. REINFORCED CONCRETE TO BE MINIMUM GRADE C32/40 , SULPHATE RESISTING CEMENT TO BE USED WHERE AGGRESSIVE SOIL CONDITION APPLY, REFER TO TABLE 6.1 OF B.S. 8110.
6. CARRIAGEWAY COVERS AND FRAMES TO BE B.S. EN 8110.
7. ALL COVERS SHALL HAVE 'ESB' LOGO INCORPORATED IN THEM TO THE APPROVAL OF EIRGRID.
8. STEP IRONS TO BE HOT DIPPED GALVANISED TO B.S. 729 AND POSITIONED AS SHOWN ON ANY CHAMBER DEEPER THAN 700mm ON THE END REMOTE FROM ANY SIDE ENTRY DUCT.
9. CONCRETE PRECAST CHAMBER AND COVER SHOULD BE TESTED THROUGH A 5 POINTS 40 TONNES VERTICAL STATIC LOADING TEST BY AN INDEPENDENT TEST COMPANY. IF REQUIRED, FURTHER DETAILS WILL BE PROVIDED BY EIRGRID.
10. FINAL POSITION OF C2 CHAMBER SHALL BE AGREED WITH EIRGRID.

DRAWN:

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R1	CD	JB	NOTES UPDATED	14/03/25
Rev.	Drawn	Chkd	Details of Revision	Date


CLIENT:

Garrane Green Energy 

PROJECT:

GARRANE 110kV SUBSTATION



DRAWN: CD	DATE: 19/11/24	JOB No.: P-3337
CHKD: JB	SCALE: NTS	A3 

TITLE:

C2 CHAMBER TYPICAL DETAILS

DRAWING STATUS: INFORMATION	ISSUE: R1
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SUIR ENG. DRAWING No.: 3337-SUIR-GR-DR-C-3003

DRG. ORIG.: NA	ORIG. DRG. No.: NA
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