

Form 2
(Rule 4.9)

Diocesan Advisory Committee Notification of Advice

This notification constitutes advice only and does not give you permission to carry out the works or other proposals to which it relates. A faculty must be obtained from the court before the works or proposals may lawfully be carried out.

In the diocese of St Albans

Parish of Croxley Green, All Saints

Church of Croxley Green, All Saints

The church is listed under the Planning (Listed Buildings and Conservation Areas) Act 1990.

The listing is grade II

At a meeting of the Diocesan Advisory Committee held on 27/11/2024

The following works or other proposals were considered:

The works or proposals should be described in the petition for a faculty and in the public notice in the same way as they are described here.

5G upgrade of the Vodafone installed telecommunications infrastructure

The Committee RECOMMENDS the works or proposals for approval by the court:

The DAC commented:

The DAC noted that the latest upgrade of equipment is satisfactory, but may be as much as can be fitted in the available space.

This advice does not constitute authority for carrying out the works or proposals and a faculty is required.

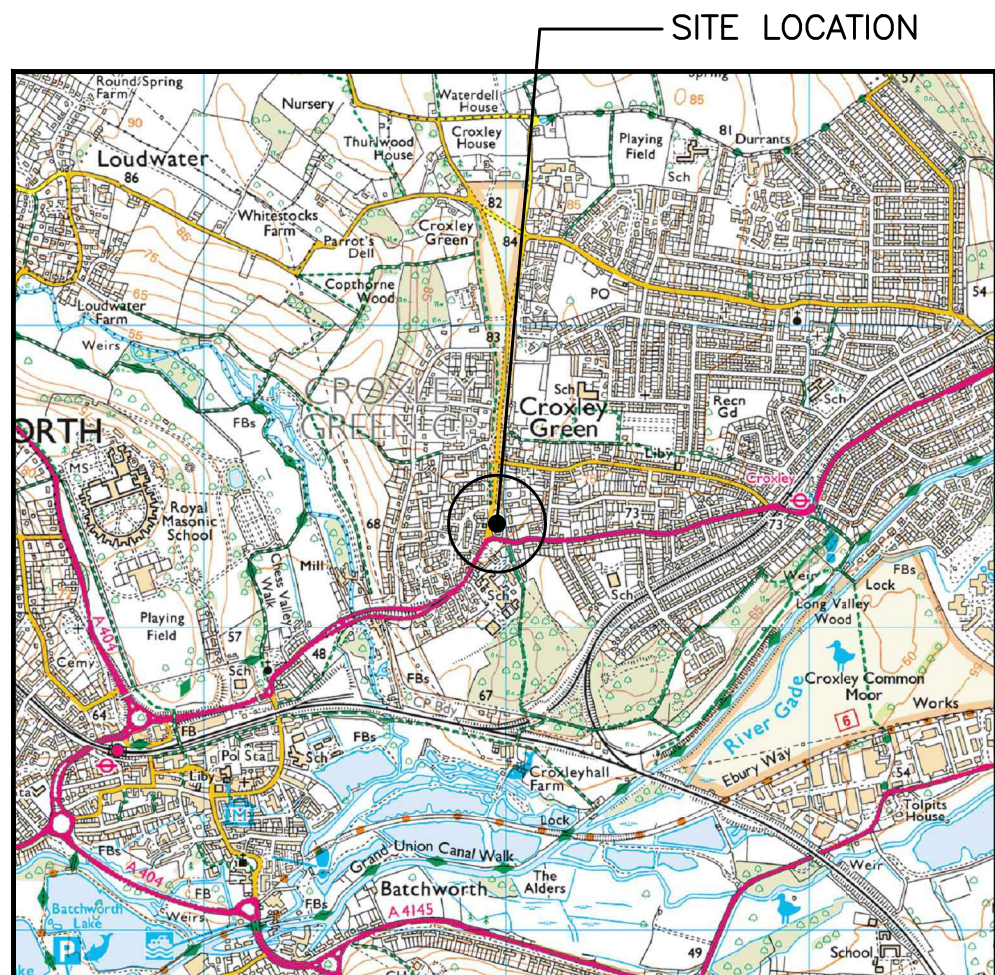
In the opinion of the Committee the work or part of the work proposed is not likely to affect

the character of the church as a building of special architectural or historic interest
the archaeological importance of the building
archaeological remains existing within the church or its curtilage

In the opinion of the Committee rule 9.9 of the Faculty Jurisdiction Rules (publication of notice on diocesan or other publicly accessible website) does not apply to the works or proposals

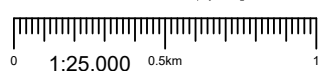
This advice is valid for 24 months from the date given below

Signed: Mrs Emma Critchley Date: 02/12/2024
Secretary to the Diocesan Advisory Committee

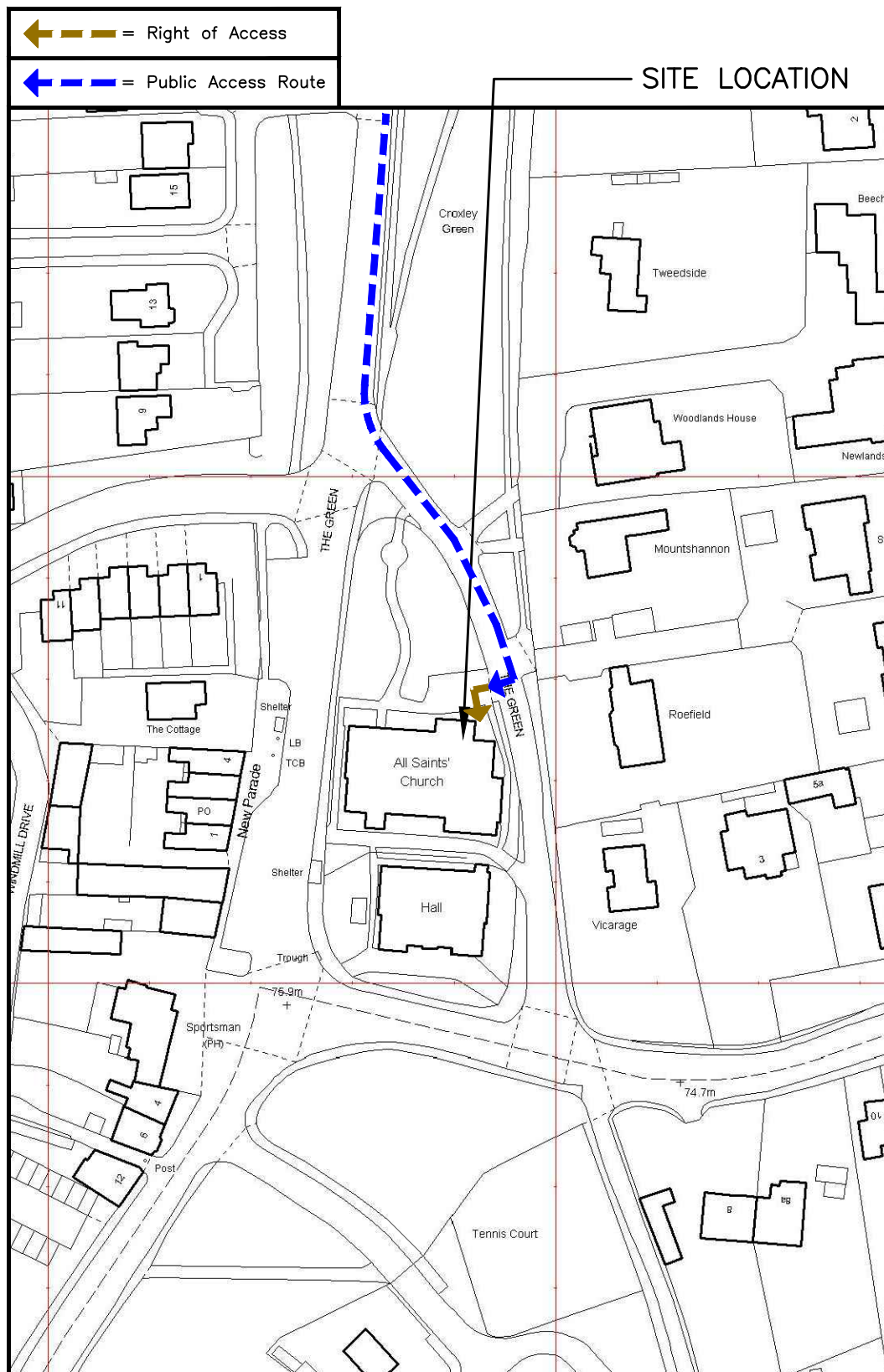
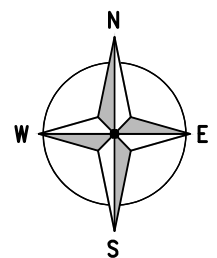


SITE LOCATION
(Scale 1:25000)

Ordnance Survey map extract based upon Landranger map series with the permission of the controller of Her Majesty's Stationery Office Licence No. 100022432 Crown copyright.

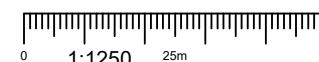


SITE PHOTOGRAPH



DETAILED SITE LOCATION
(Scale 1:1250)

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ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

DIRECTIONS TO SITE:

HEADING CLOCKWISE ON M25. AT JUNCTION 18 TAKE A404 EXIT TOWARDS AMERSHAM/CHORLEYWOOD. TURN RIGHT ONTO A404 (RICKMANSWORTH ROAD). AFTER 1.5 MILES TAKE FIRST EXIT AT ROUNDABOUT ONTO A412. AFTER 0.9 MILE GOING THROUGH 1 ROUNDABOUT TAKE THIRD EXIT ONTO A412 (WATFORD ROAD). TURN LEFT ONTO THE GREEN. CHURCH IS LOCATED ON RIGHT HAND SIDE

NOTES:

A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No

CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details

ALL SAINTS CHURCH
THE GREEN
CROXLEY GREEN
HERTFORDSHIRE
WD3 3HJ

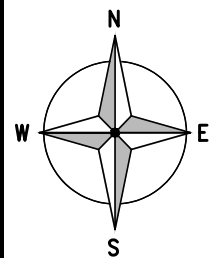
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Purpose of issue: CONSTRUCTION

Drawing Number: 100

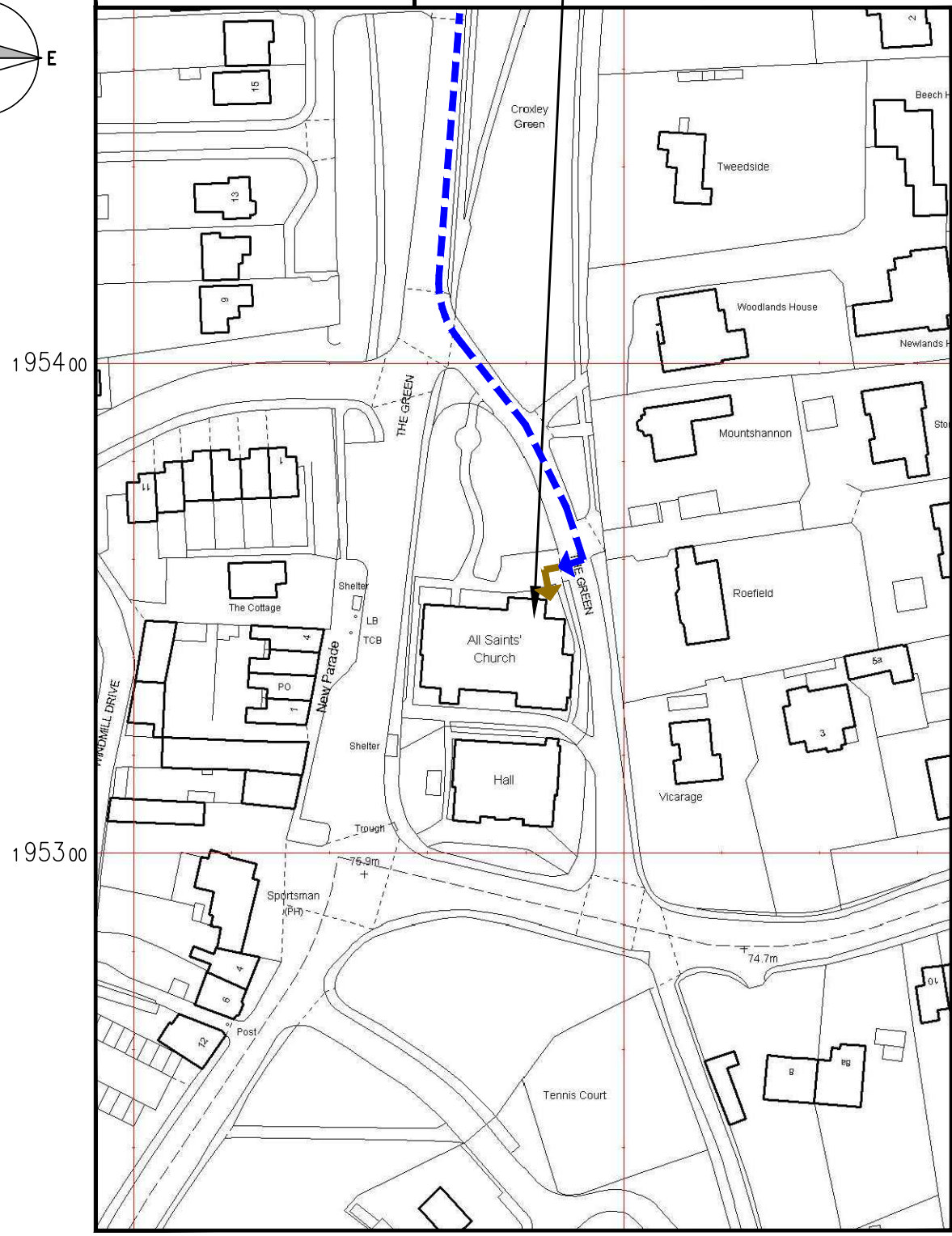
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Drawn: NP Date: 30.06.23 Checked: GD Date: 30.06.23



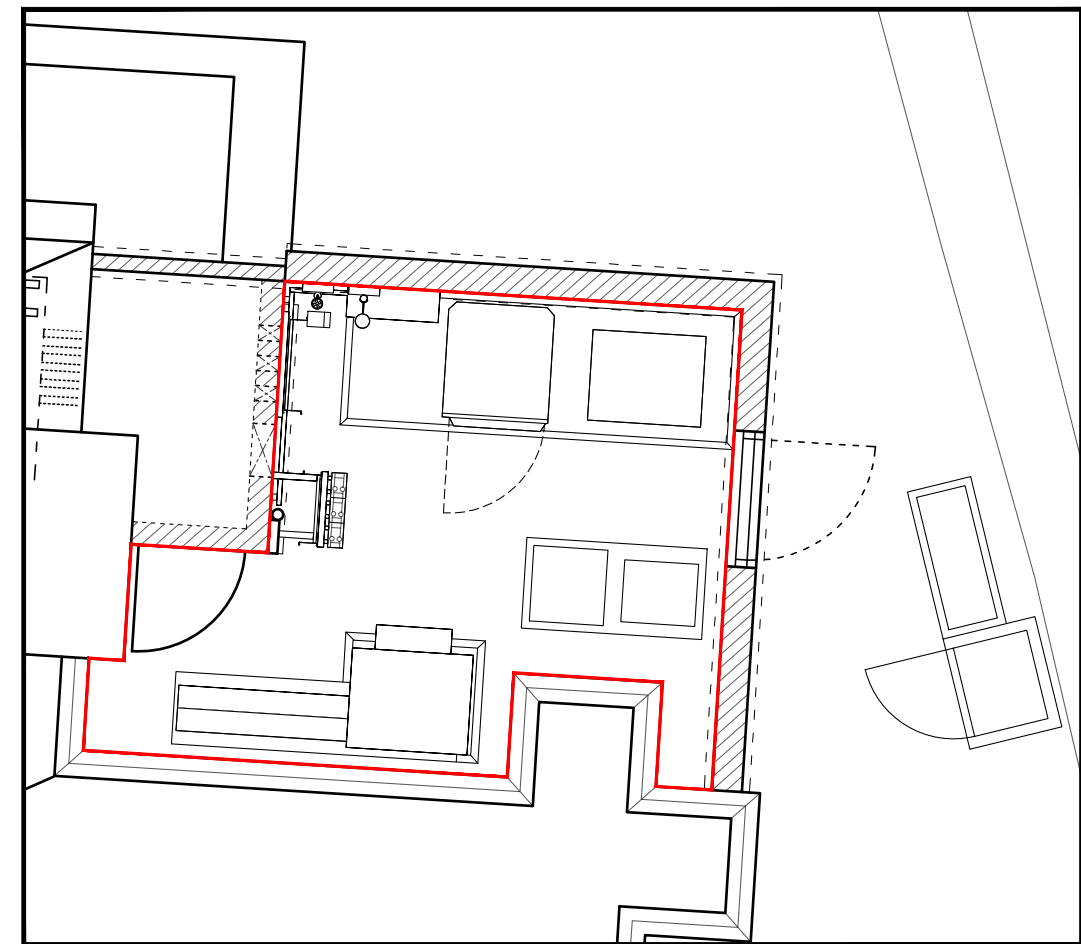
← = Right of Access
 ← = Public Access Route

SITE LOCATION

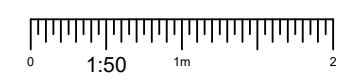


DETAILED SITE LOCATION
 (Scale 1:1250)

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DEMISE PLAN
 (1:50)



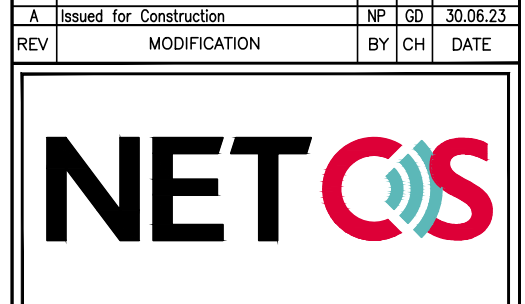
ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

DIRECTIONS TO SITE:
 HEADING CLOCKWISE ON M25. AT JUNCTION 18 TAKE A404 EXIT TOWARDS AMERSHAM/CHORLEYWOOD. TURN RIGHT ONTO A404 (RICKMANSWORTH ROAD). AFTER 1.5 MILES TAKE FIRST EXIT AT ROUNDABOUT ONTO A412. AFTER 0.9 MILE GOING THROUGH 1 ROUNDABOUT TAKE THIRD EXIT ONTO A412 (WATFORD ROAD). TURN LEFT ONTO THE GREEN. CHURCH IS LOCATED ON RIGHT HAND SIDE

NOTES:

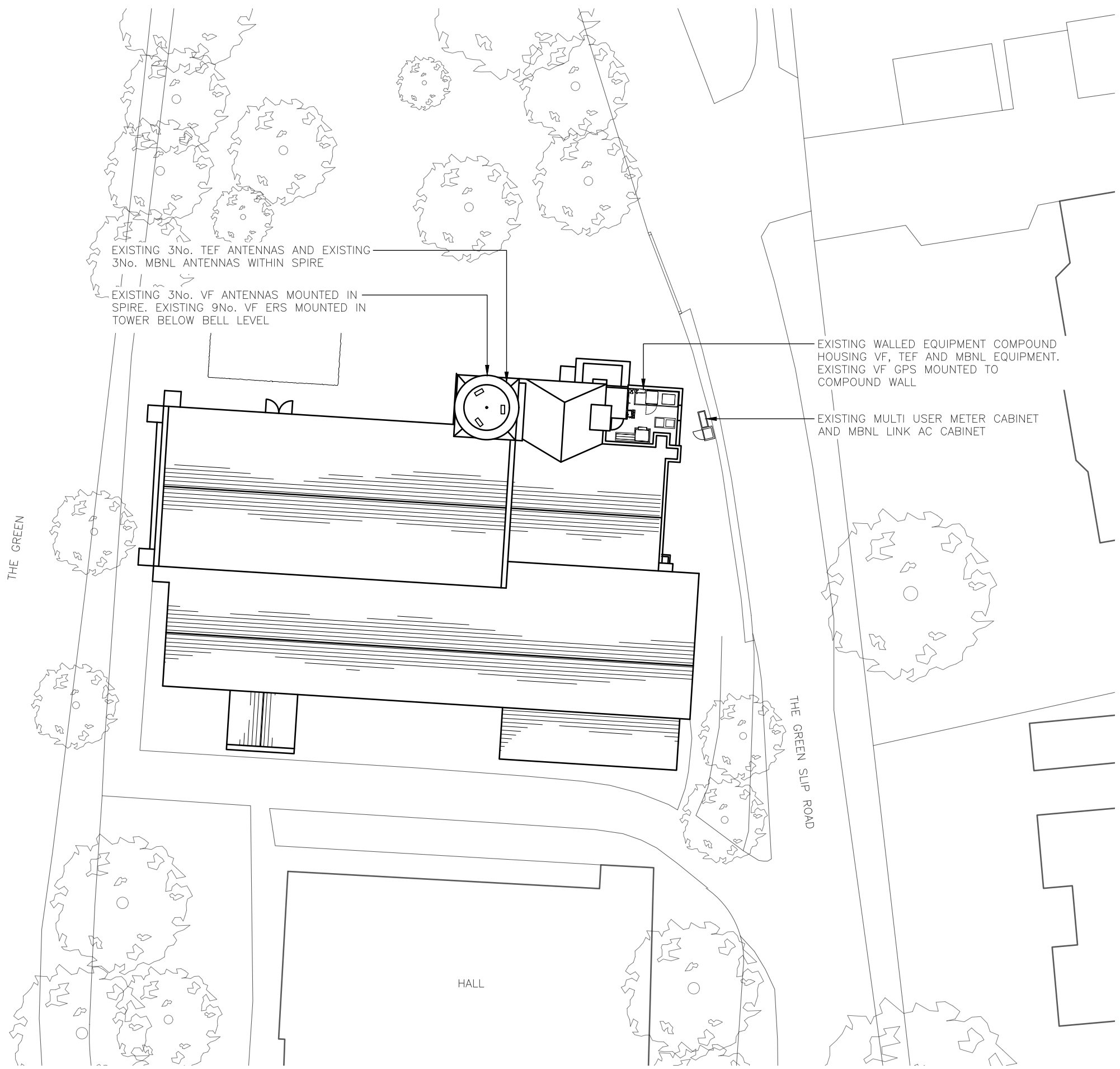
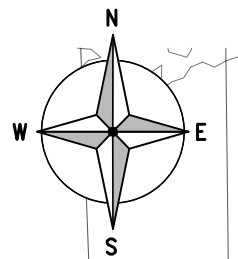
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



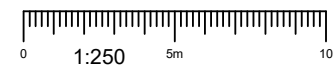
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ALL SAINTS CHURCH		-
Cell ID No		
CORNERSTONE	VF	VMO2
E303525	11246_15	
144306_24		

Site Address / Contact Details
 ALL SAINTS CHURCH
 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

Drawing Title:		LEASE DRAWING	
Purpose of issue:		CONSTRUCTION	
Drawing Number:		101	
Surveyed By:	Original Sheet Size:	Pack Issue:	
DR	A3	A	
Drawn:	Date:	Checked:	Date:
NP	30.06.23	GD	30.06.23
		B	



EXISTING SITE PLAN
(1:250)



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R E: 506975 N: 195331

NOTES:

A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details
 ALL SAINTS CHURCH
 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

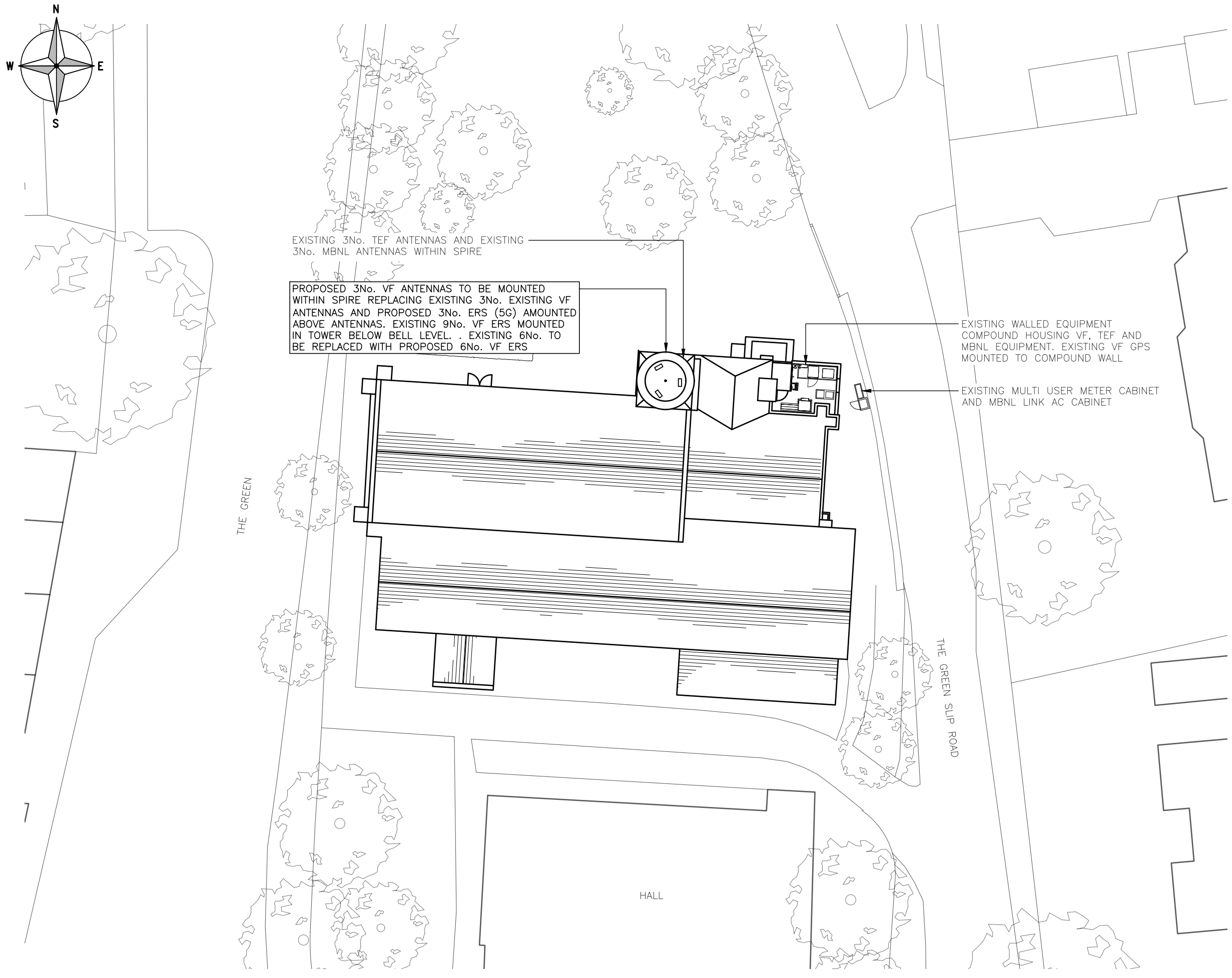
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EXISTING SITE PLAN

Purpose of issue:
CONSTRUCTION

Drawing Number: 200

Surveyed By: DR Original Sheet Size: A3

Drawn: NP Date: 30.06.23 Checked: GD Date: 30.06.23



EXISTING 3No. TEF ANTENNAS AND EXISTING 3No. MBNL ANTENNAS WITHIN SPIRE

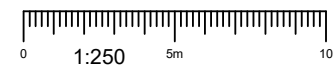
PROPOSED 3No. VF ANTENNAS TO BE MOUNTED WITHIN SPIRE REPLACING EXISTING 3No. EXISTING VF ANTENNAS AND PROPOSED 3No. ERS (5G) AMOUNTED ABOVE ANTENNAS. EXISTING 9No. VF ERS MOUNTED IN TOWER BELOW BELL LEVEL. EXISTING 6No. TO BE REPLACED WITH PROPOSED 6No. VF ERS

EXISTING WALLED EQUIPMENT COMPOUND HOUSING VF, TEF AND MBNL EQUIPMENT. EXISTING VF GPS MOUNTED TO COMPOUND WALL

EXISTING MULTI USER METER CABINET AND MBNL LINK AC CABINET

PROPOSED SITE PLAN
(1:250)

These drawings comply with VF Standard ICNIRP guidelines, under configuration VU6F
Designed in accordance with Cornerstone documents: SDN0009 v5.0



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R E: 506975 N: 195331

NOTES:

A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name
ALL SAINTS CHURCH

Cell ID No

CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details

ALL SAINTS CHURCH
THE GREEN
CROXLEY GREEN
HERTFORDSHIRE
WD3 3HJ

Drawing Title:
PROPOSED SITE PLAN

Purpose of issue:
CONSTRUCTION

Drawing Number:
201

Surveyed By:
DR

Original Sheet Size:
A3

Drawn: NP	Date: 30.06.23	Checked: GD	Date: 30.06.23	Pack Issue: B
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ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

NOTES:

TOP OF VF ANTENNAS +16.33m AGL



U/S OF VF ANTENNAS +15.68m AGL



RIDGE LEVEL +13.4m AGL



G.L.



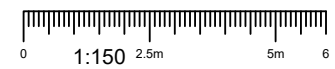
EXISTING MULTI USER METER CABINET AND MBNL LINK AC CABINET

EXISTING WALLED EQUIPMENT COMPOUND HOUSING VF, TEF AND MBNL EQUIPMENT. EXISTING VF GPS MOUNTED TO COMPOUND WALL

EXISTING 3No. VF AND 3No. TEF ANTENNAS MOUNTED IN SPIRE. EXISTING 3No. MBNL ANTENNAS ALSO MOUNTED WITHIN SPIRE. EXISTING 9No. VF ERS MOUNTED IN TOWER BELOW BELL LEVEL



EXISTING NORTH ELEVATION
(1:150)



B	Building & Antenna Heights Corrected	NP	GD	08.09.23
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name
ALL SAINTS CHURCH

Cell ID No

CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details

ALL SAINTS CHURCH
THE GREEN
CROXLEY GREEN
HERTFORDSHIRE
WD3 3HJ

Drawing Title:
EXISTING NORTH ELEVATION

Purpose of issue:
CONSTRUCTION

Drawing Number:
300

Surveyed By:
DR

Original Sheet Size:
A3

Drawn: NP Date: 30.06.23 Checked: GD Date: 30.06.23

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

NOTES:



PROPOSED NORTH ELEVATION
(1:150)

EXISTING MULTI USER METER CABINET AND MBNL LINK AC CABINET

EXISTING WALLED EQUIPMENT COMPOUND HOUSING VF, TEF AND MBNL EQUIPMENT. EXISTING VF GPS MOUNTED TO COMPOUND WALL

B	Building & Antenna Heights Corrected	NP	GD	08.09.23
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ

Drawing Title: PROPOSED NORTH ELEVATION

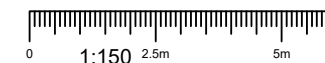
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CONSTRUCTION	B

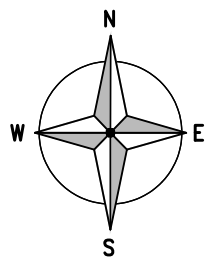
Drawing Number:	Pack Issue:
301	B

Surveyed By:	Original Sheet Size:	Pack Issue:
DR	A3	B

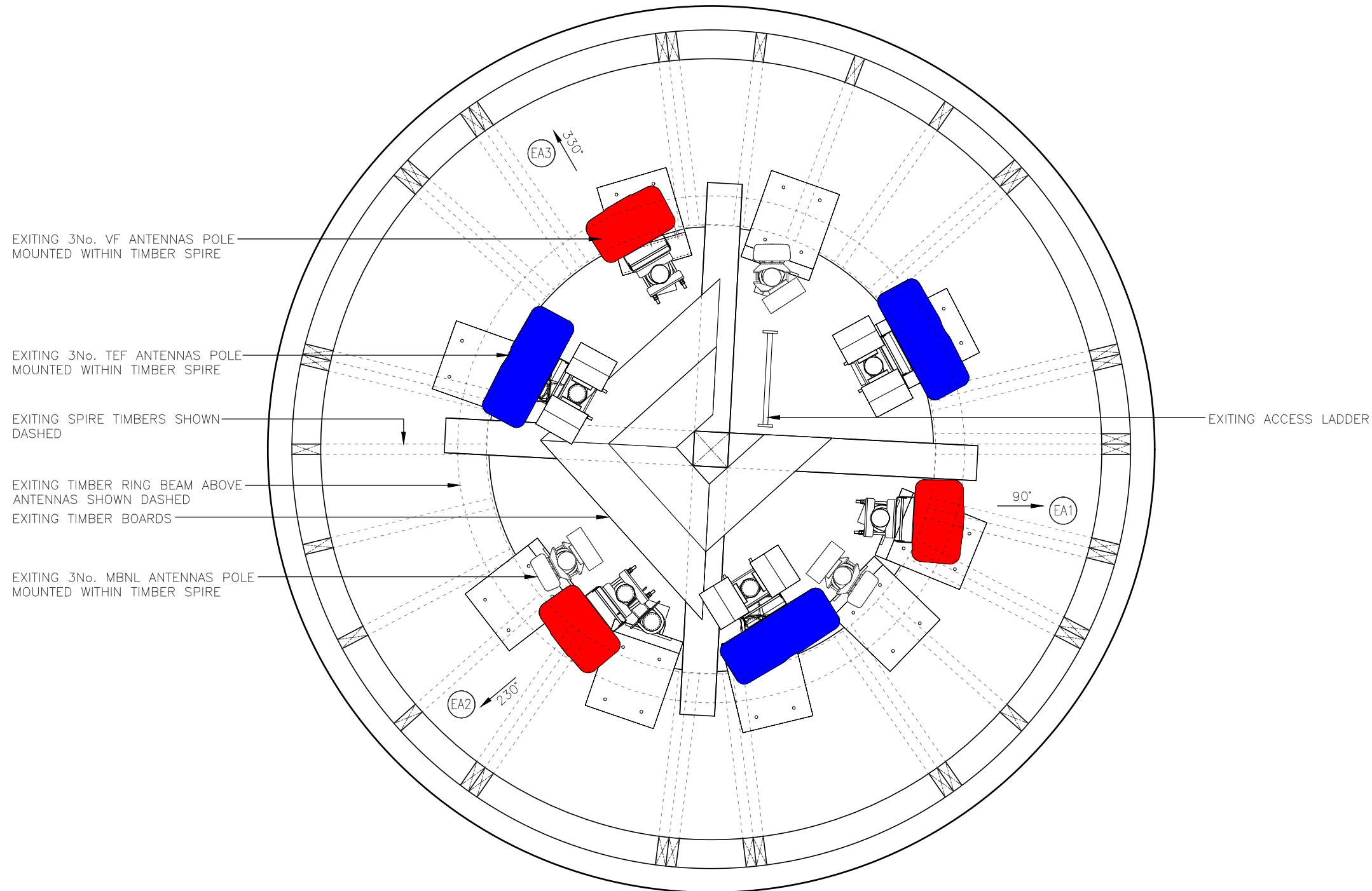
Drawn:	Date:	Checked:	Date:	Pack Issue:
NP	30.06.23	GD	30.06.23	B

These drawings comply with VF Standard ICNIRP guidelines, under configuration VU6F
Designed in accordance with Cornerstone documents: SDN0009 v5.0





NOTE: SPACE WITHIN SPIRE IS VERY LIMITED AND PLAN IS NOT A TRUE REPRESENTATION OF ACTUAL SPACE



EXISTING 3No. VF ANTENNAS POLE MOUNTED WITHIN TIMBER SPIRE

EXISTING 3No. TEF ANTENNAS POLE MOUNTED WITHIN TIMBER SPIRE

EXISTING SPIRE TIMBERS SHOWN DASHED

EXISTING TIMBER RING BEAM ABOVE ANTENNAS SHOWN DASHED

EXISTING TIMBER BOARDS

EXISTING 3No. MBNL ANTENNAS POLE MOUNTED WITHIN TIMBER SPIRE

EXISTING ACCESS LADDER

EXISTING ANTENNA PLAN
(1:20)



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

COLOUR KEY

SHARED EQUIPMENT	
VF ALLOCATED EQUIPMENT	
TEF ALLOCATED EQUIPMENT	

NOTES:

A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details
 ALL SAINTS CHURCH
 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

Drawing Title:
EXISTING ANTENNA PLAN

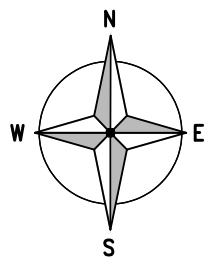
Purpose of issue:
CONSTRUCTION

Drawing Number:
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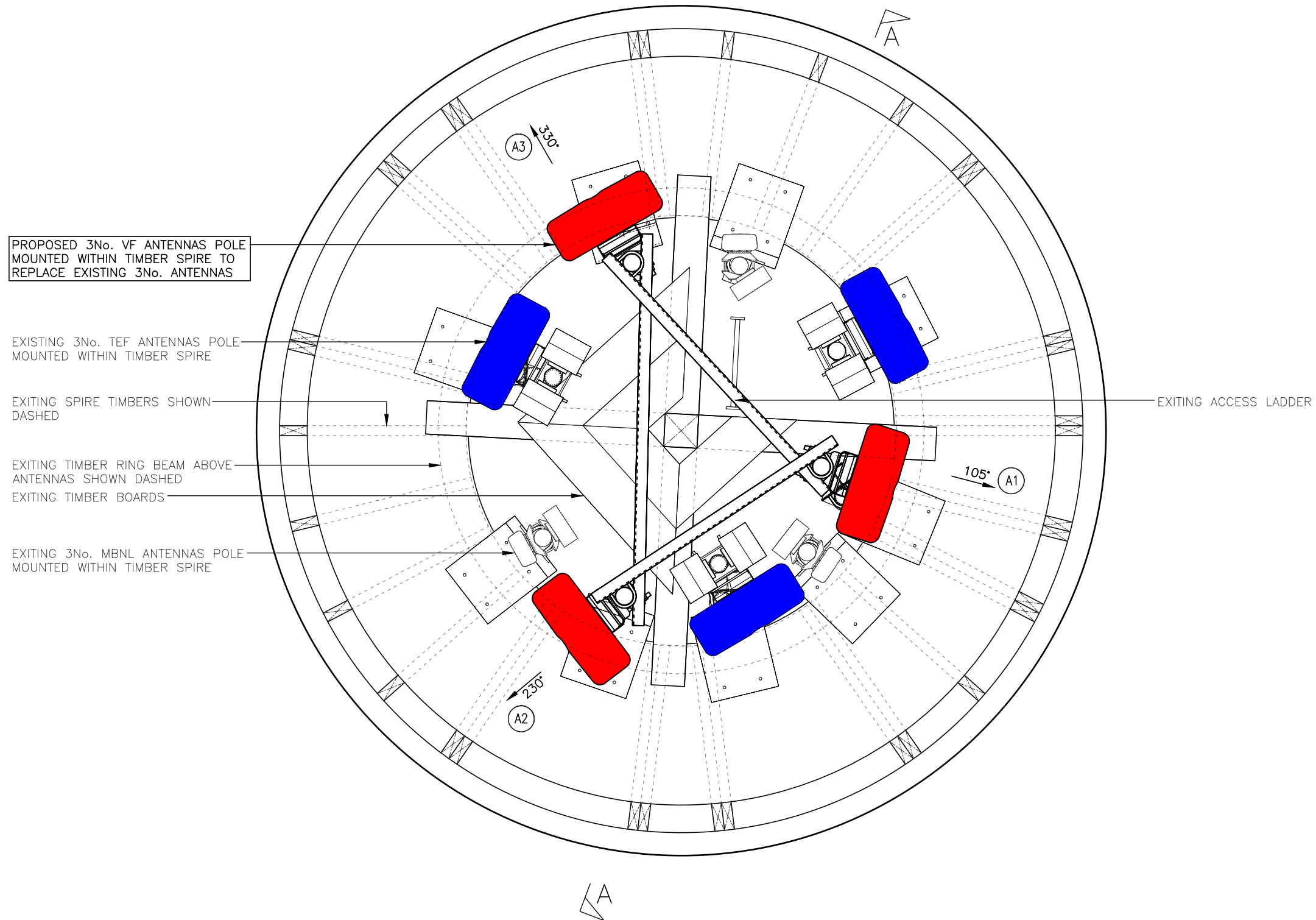
Surveyed By:
DR

Original Sheet Size:
A3

Drawn: NP Date: 30.06.23
 Checked: GD Date: 30.06.23
 Dwg Rev: A
 Pack Issue: B



NOTE: SPACE WITHIN SPIRE IS VERY LIMITED AND PLAN IS NOT A TRUE REPRESENTATION OF ACTUAL SPACE



PROPOSED 3No. VF ANTENNAS POLE MOUNTED WITHIN TIMBER SPIRE TO REPLACE EXISTING 3No. ANTENNAS

EXISTING 3No. TEF ANTENNAS POLE MOUNTED WITHIN TIMBER SPIRE

EXISTING SPIRE TIMBERS SHOWN DASHED

EXISTING TIMBER RING BEAM ABOVE ANTENNAS SHOWN DASHED

EXISTING TIMBER BOARDS

EXISTING 3No. MBNL ANTENNAS POLE MOUNTED WITHIN TIMBER SPIRE

EXISTING ACCESS LADDER

PROPOSED ANTENNA PLAN
(1:20)

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

COLOUR KEY

SHARED EQUIPMENT	
VF ALLOCATED EQUIPMENT	
TEF ALLOCATED EQUIPMENT	

NOTES:

A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details		
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ		

Drawing Title: PROPOSED ANTENNA PLAN

Purpose of issue:	CONSTRUCTION	Dwg Rev:
Drawing Number:	401	A

Surveyed By:	Original Sheet Size:	Pack Issue:
DR	A3	B

Drawn:	Date:	Checked:	Date:	
NP	30.06.23	GD	30.06.23	B

These drawings comply with VF Standard ICNIRP guidelines, under configuration VU6F
Designed in accordance with Cornerstone documents: SDN0009 v5.0



NOTE: SPACE WITHIN SPIRE IS VERY LIMITED AND ELEVATIONS ARE NOT A TRUE REPRESENTATION OF ACTUAL SPACE

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

NOTES:

PROPOSED 3No. 100x50x6 UA BRACEES U-BOLTED TO TOP OF VF ANTENNA POLES WITH 2No. M12 U-BOLTS EACH END PER BRACE

EXITING TIMBER RING BEAM ABOVE ANTENNAS

EXITING SPIRE TIMBERS SHOWN DASHED

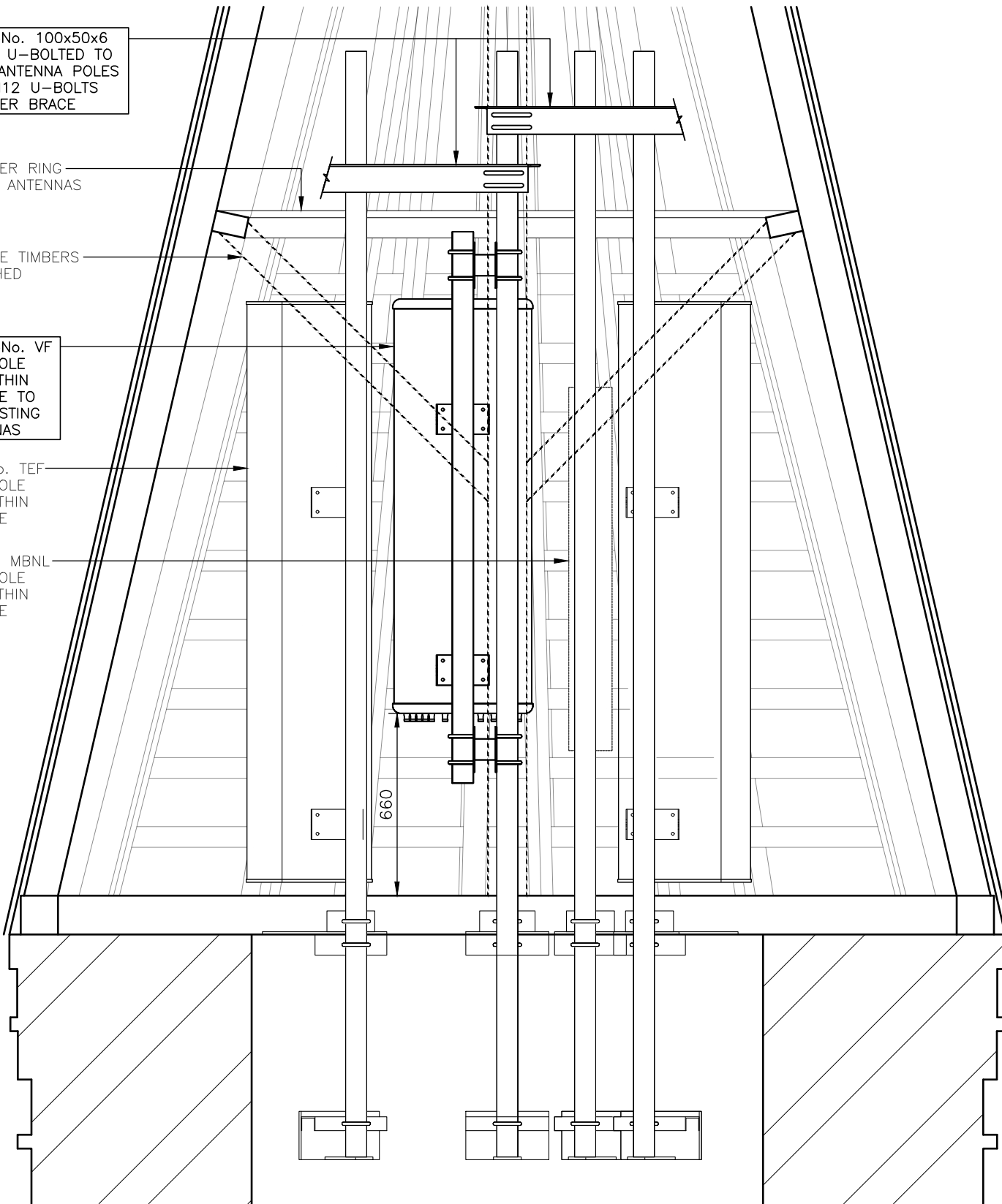
PROPOSED 3No. VF ANTENNAS POLE MOUNTED WITHIN TIMBER SPIRE TO REPLACE EXISTING 3No. ANTENNAS

EXISTING 3No. TEF ANTENNAS POLE MOUNTED WITHIN TIMBER SPIRE

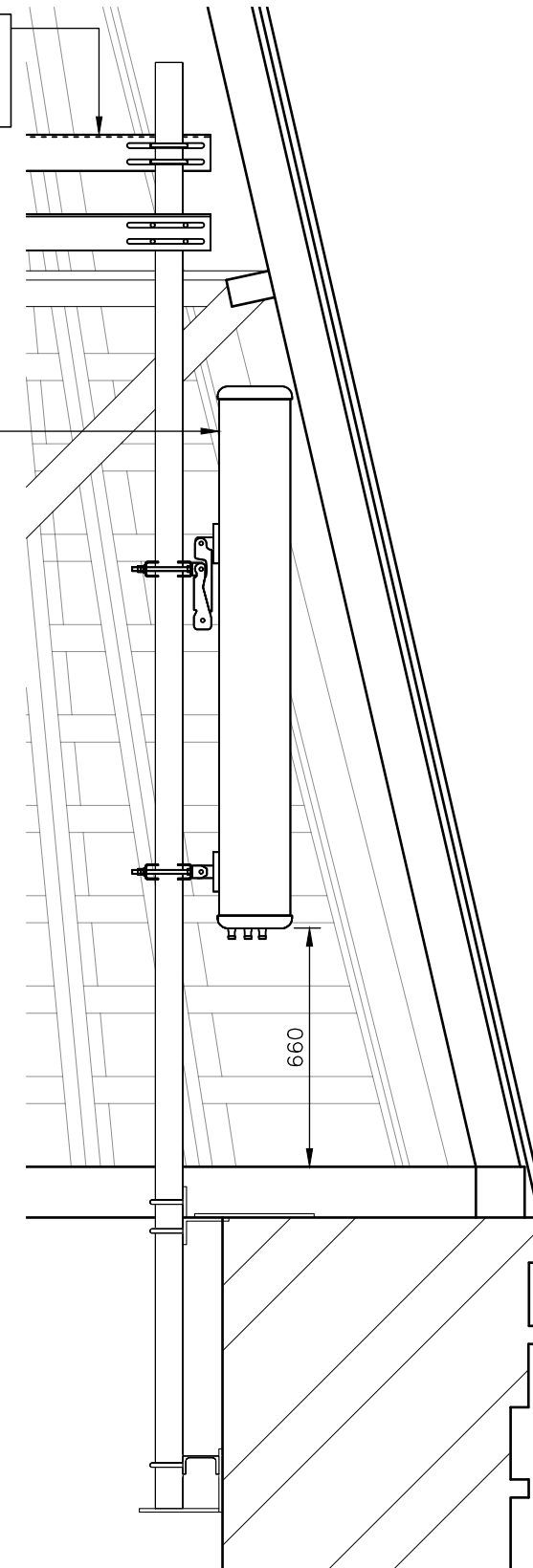
EXISTING 3No. MBNL ANTENNAS POLE MOUNTED WITHIN TIMBER SPIRE

PROPOSED 3No. 100x50x6 UA BRACEES U-BOLTED TO TOP OF VF ANTENNA POLES WITH 2No. M12 U-BOLTS EACH END PER BRACE

PROPOSED 3No. VF ANTENNAS POLE MOUNTED WITHIN TIMBER SPIRE TO REPLACE EXISTING 3No. ANTENNAS



SECTION A-A



SIDE ELEVATION OF VF ANTENNA

PROPOSED ANTENNA SECTIONAL ELEVATIONS

(1:20)

These drawings comply with VF Standard ICNIRP guidelines, under configuration VU6F
Designed in accordance with Cornerstone documents: SDN0009 v5.0



A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

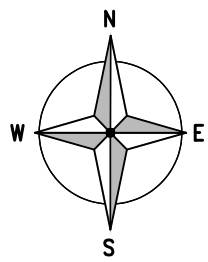
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CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details		
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ		

Drawing Title:
PROPOSED ANTENNA SECTIONAL ELEVATIONS

Purpose of issue:	CONSTRUCTION	Dwg Rev:
Drawing Number:	402	A

Surveyed By:	DR	Original Sheet Size:	A3	Pack Issue:
Drawn:	NP	Date:	30.06.23	Checked:
		Date:	30.06.23	B



EXISTING 3No. TEF RRH'S MOUNTED ON RRH RAIL MOUNTED ON UNISTRUT FRAME FIXED TO STEEL SUPPORT

EXISTING TIMBER BEAM ABOVE BELL FRAME

EXISTING 3No. TEF RRH'S MOUNTED ON RRH RAIL MOUNTED ON UNISTRUT FRAME FIXED TO STEEL SUPPORT

EXISTING TIMBER LOUVER PANELS MOUNTED ON TIMBER SUPPORTS

EXISTING TIMBER BELL SUPPORT AND BELL ABOVE BELL FRAME

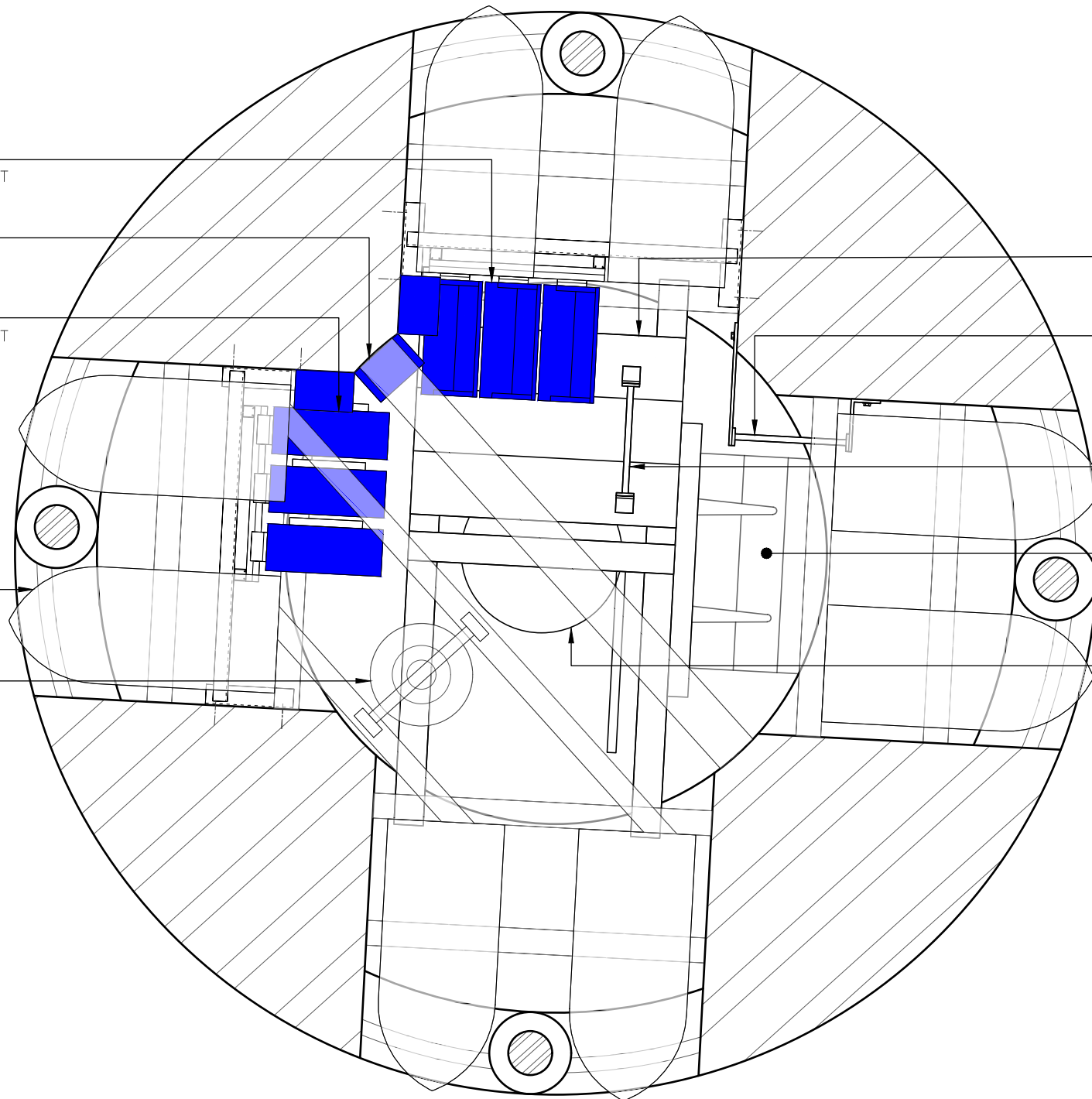
EXISTING TIMBER PLATFORM MOUNTED TO TOP OF BELL FRAME

EXISTING STEEL LADDER UP FROM FLOOR LEVEL TO TIMBER PLATFORM ABOVE BELL

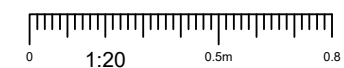
EXISTING STEEL LADDER UPTO ANTENNA LEVEL

EXISTING HATCH WITHIN FLOOR INTO BELL CHAMBER

EXISTING TIMBER BELL FRAME AND BELL



EXISTING BELL CHAMBER PLAN
(1:20)



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

COLOUR KEY

SHARED EQUIPMENT	
VF ALLOCATED EQUIPMENT	
TEF ALLOCATED EQUIPMENT	

NOTES:

A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

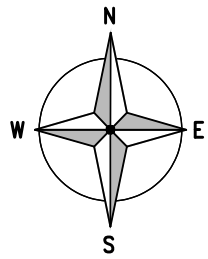
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CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details		
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ		

Drawing Title:
EXISTING BELL CHAMBER PLAN

Purpose of issue:	CONSTRUCTION	Dwg Rev:
Drawing Number:	403	A

Surveyed By:	DR	Original Sheet Size:	A3	Pack Issue:
Drawn:	NP	Date:	30.06.23	Checked:
				GD
				Date:
				30.06.23
				B



NOTE: DRAWING REVISIONS FROM PREVIOUS ISSUED REVISION OUTLINED IN RED

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

COLOUR KEY	
SHARED EQUIPMENT	
VF ALLOCATED EQUIPMENT	
TEF ALLOCATED EQUIPMENT	

NOTES:

EXISTING 3No. TEF RRH'S MOUNTED ON RRH RAIL MOUNTED ON UNISTRUT FRAME FIXED TO STEEL SUPPORT

EXISTING TIMBER BEAM ABOVE BELL FRAME

EXISTING 3No. TEF RRH'S MOUNTED ON RRH RAIL MOUNTED ON UNISTRUT FRAME FIXED TO STEEL SUPPORT

EXISTING TIMBER LOUVER PANELS MOUNTED ON TIMBER SUPPORTS

EXISTING TIMBER BELL SUPPORT AND BELL ABOVE BELL FRAME

EXISTING TIMBER PLATFORM MOUNTED TO TOP OF BELL FRAME

EXISTING STEEL LADDER UP FROM FLOOR LEVEL TO TIMBER PLATFORM ABOVE BELL

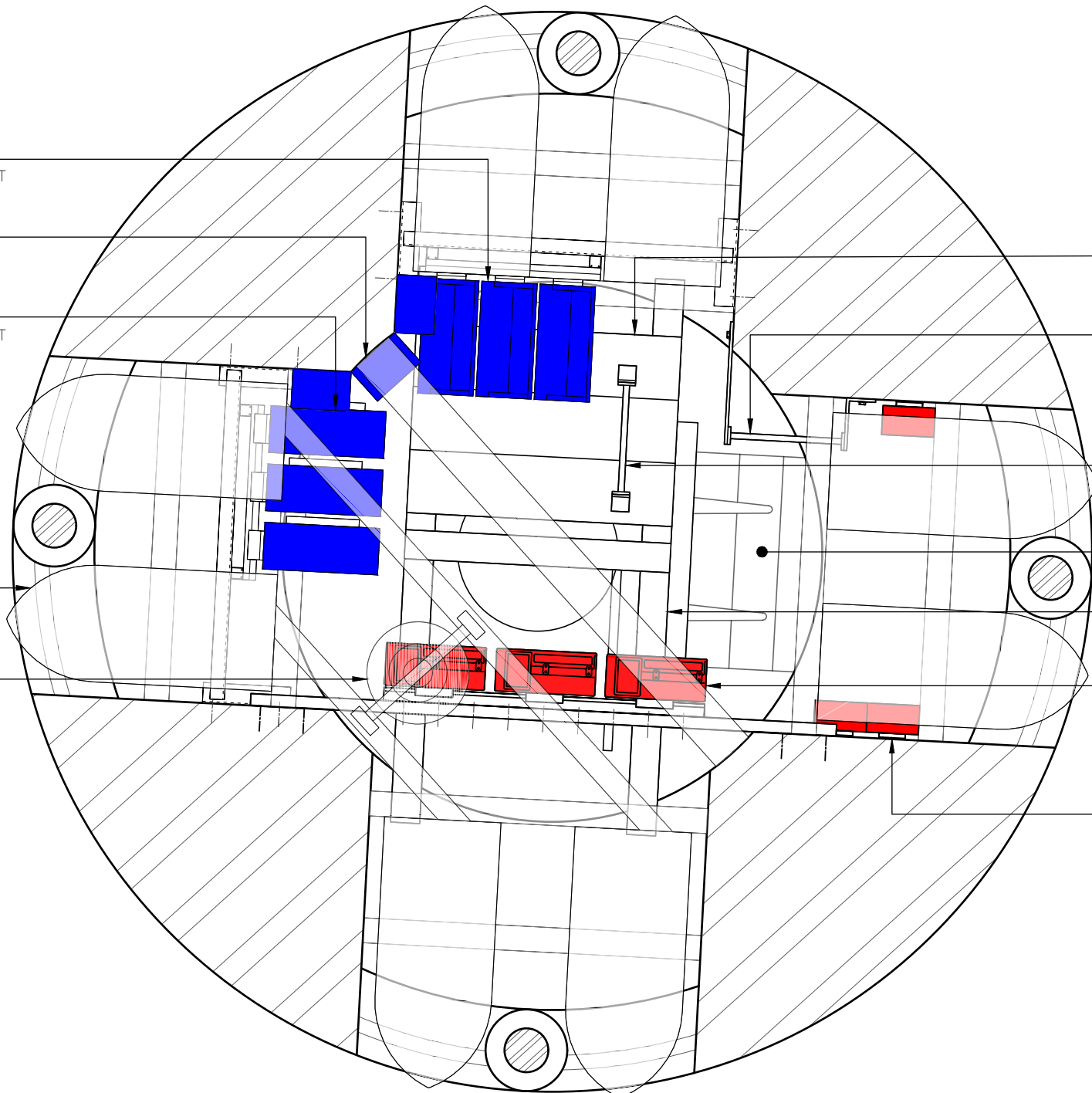
EXISTING STEEL LADDER UPTO ANTENNA LEVEL

EXISTING HATCH WITHIN FLOOR INTO BELL CHAMBER

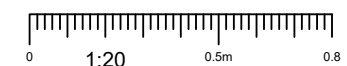
EXISTING TIMBER BELL FRAME AND BELL

PROPOSED 3No. VF ERS (5G) SIDE MOUNTED (NOT END MOUNTED) ON 1No. 1100mm LONG ERS RAIL MOUNTED ON UNISTRUT FRAME FIXED TO WALL ACROSS WINDOW OPENING

PROPOSED 3No. VF BOB MOUNTED TO WALL NEAR HATCH. BOB'S CAN ALSO BE MOUNTED TO HANDRAIL AT EXISTING ERS LEVEL IF POSSIBLE



PROPOSED BELL CHAMBER PLAN – VF 5G ERS
(1:20)



REV	MODIFICATION	BY	CH	DATE
B	BOB's Location Amended	NP	GD	06.09.23
A	Issued for Construction	NP	GD	30.06.23



Cell Name | Opt.
ALL SAINTS CHURCH | -

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

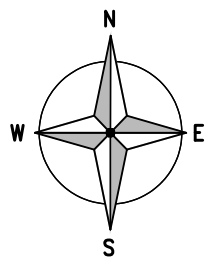
Site Address / Contact Details
ALL SAINTS CHURCH
THE GREEN
CROXLEY GREEN
HERTFORDSHIRE
WD3 3HJ

Drawing Title:
PROPOSED BELL CHAMBER PLAN – VF 5G ERS

Purpose of issue: CONSTRUCTION | Dwg Rev: B

Drawing Number: 404 | Pack Issue: B

Surveyed By: DR | Original Sheet Size: A3 | Drawn: NP | Date: 30.06.23 | Checked: GD | Date: 30.06.23 | B



NOTE: DRAWING REVISIONS FROM PREVIOUS ISSUED REVISION OUTLINED IN RED

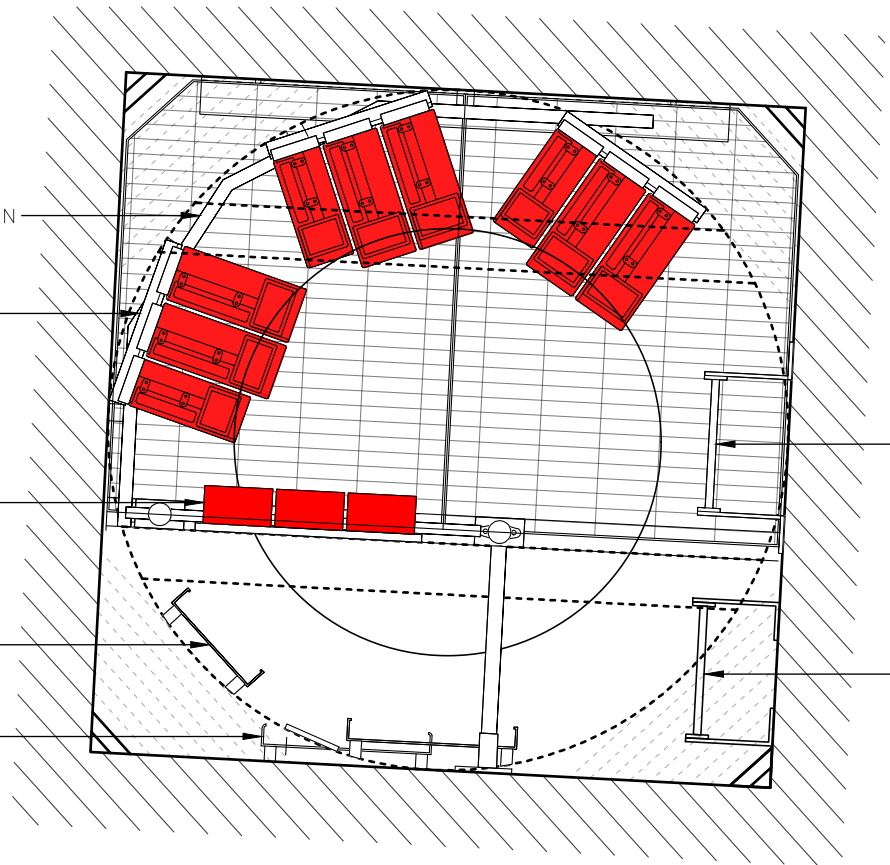
ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

COLOUR KEY	
SHARED EQUIPMENT	
VF ALLOCATED EQUIPMENT	
TEF ALLOCATED EQUIPMENT	

NOTES:

- EXISTING 300mm WIDE CABLE TRAY RUN AROUND WALL BENEATH ERS UNITS LINKING TO VERTICAL CABLE TRAY
- EXISTING 9No. VF ERS MOUNTED TO WALL WITHIN CLOCK ROOM
- EXISTING BOB'S INSTALLED ON PLYWOOD BACK BOARD AND FIXED TO TIMBER BEAM ABOVE PLATFORM
- EXISTING CABLE TRAY RUNNING UP INSIDE OF TOWER TO ANTENNAS
- EXISTING 300mm WIDE VERTICAL CABLE TRAY RUNNING UP



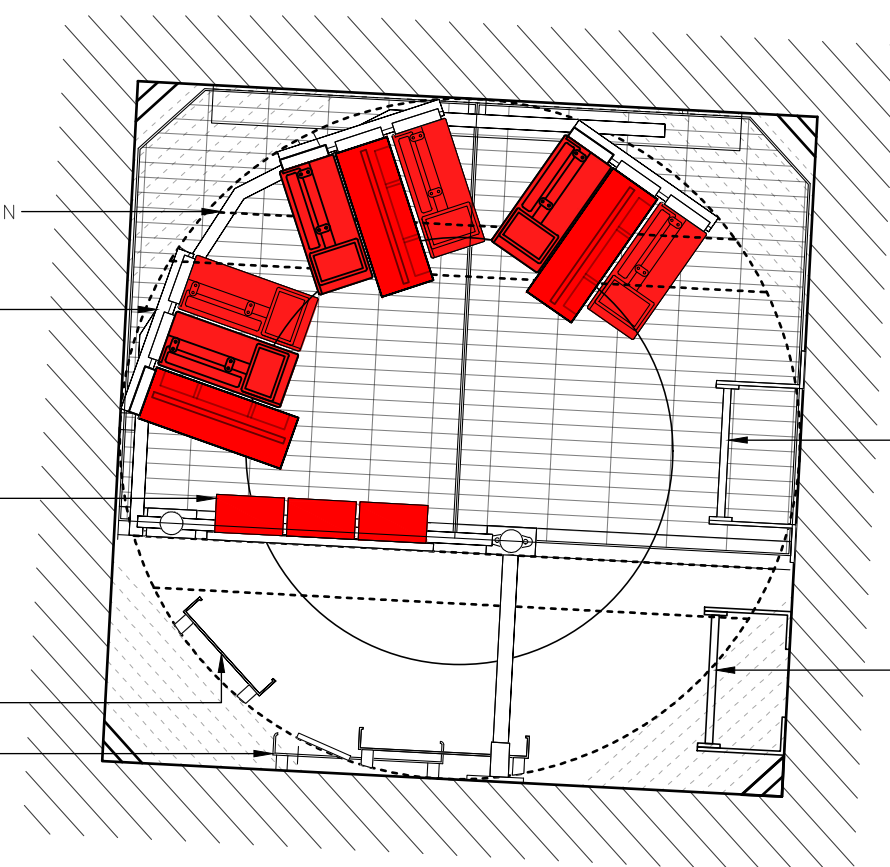
EXISTING STEEL ACCESS LADDER

EXISTING STEEL ACCESS LADDER TO PLATFORM

EXISTING ERS PLAN

NOTE: PROPOSED BOB'S CAN BE MOUNTED TO HANDRAIL IF POSSIBLE INSTEAD OF IN CHAMBER ABOVE

- EXISTING 300mm WIDE CABLE TRAY RUN AROUND WALL BENEATH ERS UNITS LINKING TO VERTICAL CABLE TRAY
- PROPOSED 6No. ERS TO BE RAIL MOUNTED TO REPLACED EXISTING 6No. VF ERS. EXISTING 3No. TO REMAIN (TOTAL 9No.)
- EXISTING BOB'S INSTALLED ON PLYWOOD BACK BOARD AND FIXED TO TIMBER BEAM ABOVE PLATFORM
- EXISTING CABLE TRAY RUNNING UP INSIDE OF TOWER TO ANTENNAS
- EXISTING 300mm WIDE VERTICAL CABLE TRAY RUNNING UP



EXISTING STEEL ACCESS LADDER

EXISTING STEEL ACCESS LADDER TO PLATFORM

PROPOSED ERS PLAN

CLOCK CHAMBER PLANS

(1:20)



REV	MODIFICATION	BY	CH	DATE
B	BOB's Note Added	NP	GD	06.09.23
A	Issued for Construction	NP	GD	30.06.23



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details
 ALL SAINTS CHURCH
 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

Drawing Title:
 CLOCK CHAMBER PLANS

Purpose of issue:
 CONSTRUCTION

Drawing Number:
 405

Surveyed By:
 DR

Original Sheet Size:
 A3

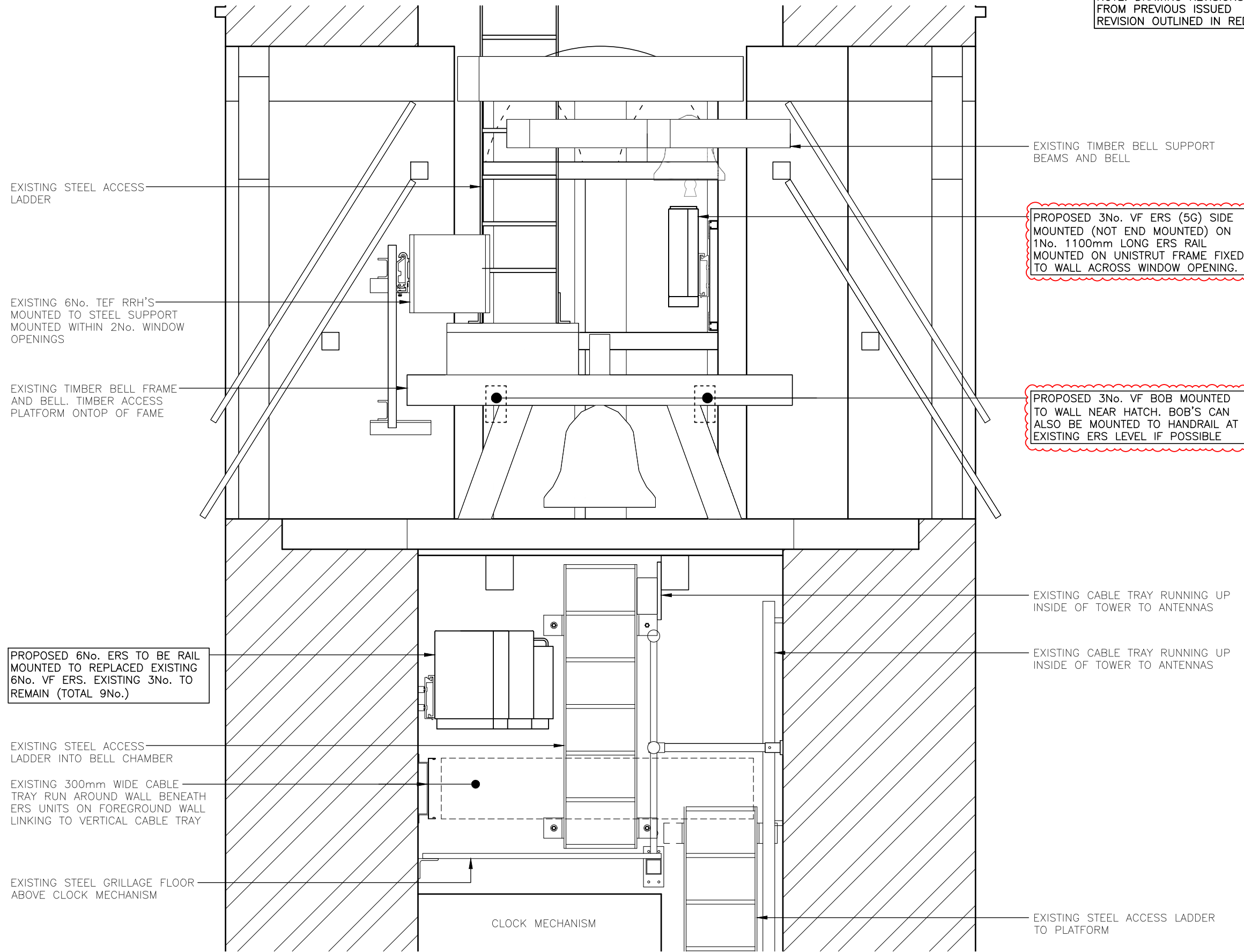
Drawn: NP Date: 30.06.23
 Checked: GD Date: 30.06.23

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

NOTE: DRAWING REVISIONS FROM PREVIOUS ISSUED REVISION OUTLINED IN RED

NOTES:



EXISTING TIMBER BELL SUPPORT BEAMS AND BELL

PROPOSED 3No. VF ERS (5G) SIDE MOUNTED (NOT END MOUNTED) ON 1No. 1100mm LONG ERS RAIL MOUNTED ON UNISTRUT FRAME FIXED TO WALL ACROSS WINDOW OPENING.

PROPOSED 3No. VF BOB MOUNTED TO WALL NEAR HATCH. BOB'S CAN ALSO BE MOUNTED TO HANDRAIL AT EXISTING ERS LEVEL IF POSSIBLE

EXISTING STEEL ACCESS LADDER

EXISTING 6No. TEF RRH'S MOUNTED TO STEEL SUPPORT MOUNTED WITHIN 2No. WINDOW OPENINGS

EXISTING TIMBER BELL FRAME AND BELL. TIMBER ACCESS PLATFORM ON TOP OF FRAME

PROPOSED 6No. ERS TO BE RAIL MOUNTED TO REPLACED EXISTING 6No. VF ERS. EXISTING 3No. TO REMAIN (TOTAL 9No.)

EXISTING STEEL ACCESS LADDER INTO BELL CHAMBER

EXISTING 300mm WIDE CABLE TRAY RUN AROUND WALL BENEATH ERS UNITS ON FOREGROUND WALL LINKING TO VERTICAL CABLE TRAY

EXISTING STEEL GRILLAGE FLOOR ABOVE CLOCK MECHANISM

EXISTING CABLE TRAY RUNNING UP INSIDE OF TOWER TO ANTENNAS

EXISTING CABLE TRAY RUNNING UP INSIDE OF TOWER TO ANTENNAS

EXISTING STEEL ACCESS LADDER TO PLATFORM

CLOCK MECHANISM

PROPOSED INTERNAL EQUIPMENT ELEVATION

(1:20)



B	BOB's Location Amended	NP	GD	06.09.23
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

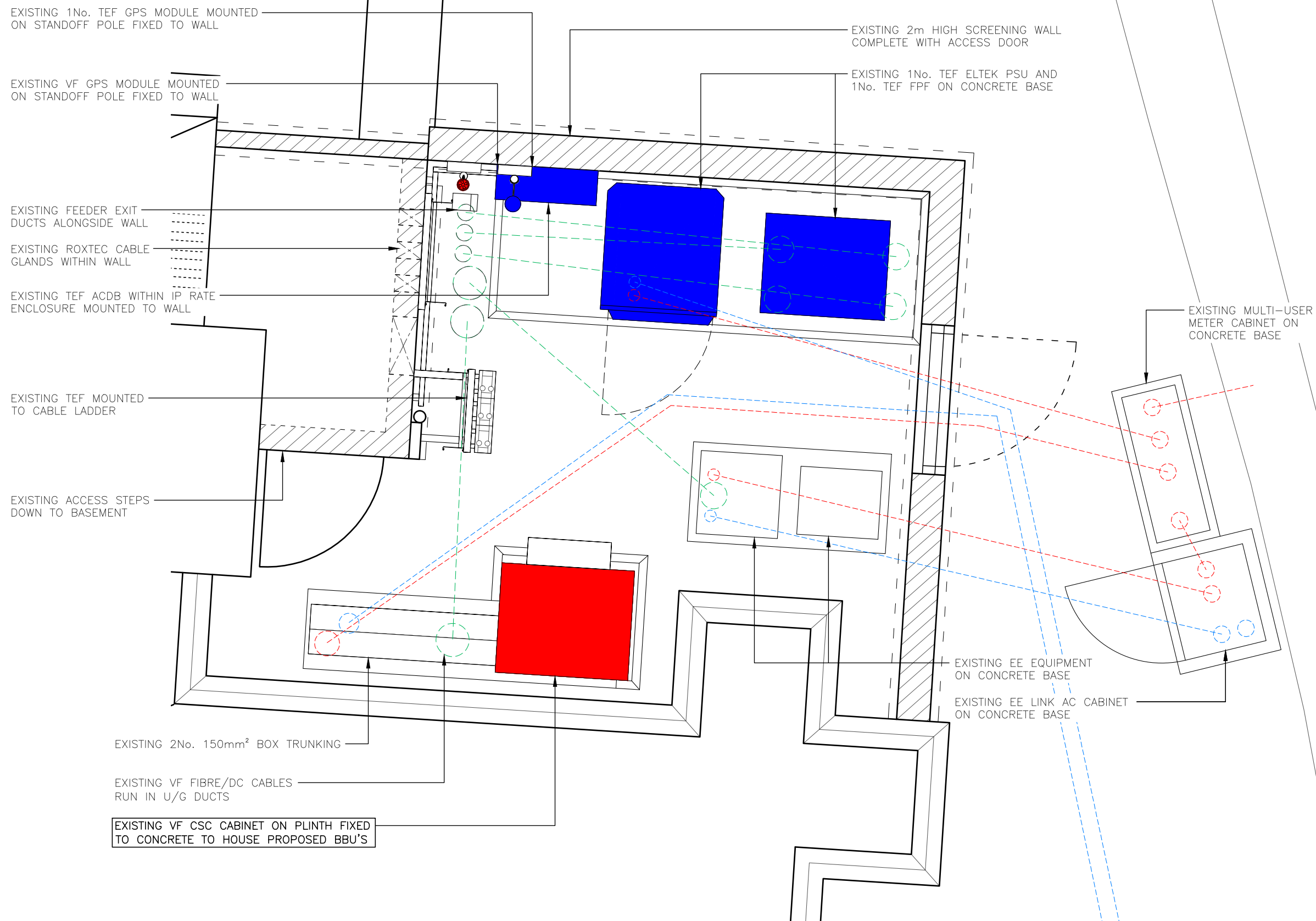
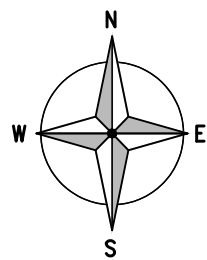
Site Address / Contact Details	
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ	

Drawing Title: PROPOSED INTERNAL EQUIPMENT ELEVATION

Purpose of issue:	CONSTRUCTION	Dwg Rev:
Drawing Number:	406	B

Surveyed By:	Original Sheet Size:	Pack Issue:
DR	A3	B

Drawn:	Date:	Checked:	Date:	
NP	30.06.23	GD	30.06.23	B



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

DUCT KEY	
	EXISTING 100ø POWER
	EXISTING 100ø COMMS
	EXISTING 150ø FEEDER
	EXISTING 100ø INCOMING*
	PROPOSED 100ø POWER
	PROPOSED 100ø COMMS
	PROPOSED 150ø FEEDER
	PROPOSED 100ø POKE-OUT*
	PROPOSED 150ø FIBRE

*INCOMING AND POKE-OUT DUCTS TO BE COLOURED BY DUCT TYPE (POWER/COMMS/FEEDER).
TX DUCTS TO BE TERMINATED 1m FROM EDGE OF CABINET

COLOUR KEY	
SHARED EQUIPMENT	
VF ALLOCATED EQUIPMENT	
TEF ALLOCATED EQUIPMENT	

NOTES:

REV	MODIFICATION	BY	CH	DATE
A	Issued for Construction	NP	GD	30.06.23



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details	
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ	

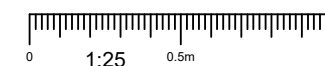
Drawing Title:
PROPOSED EXTERNAL EQUIPMENT PLAN

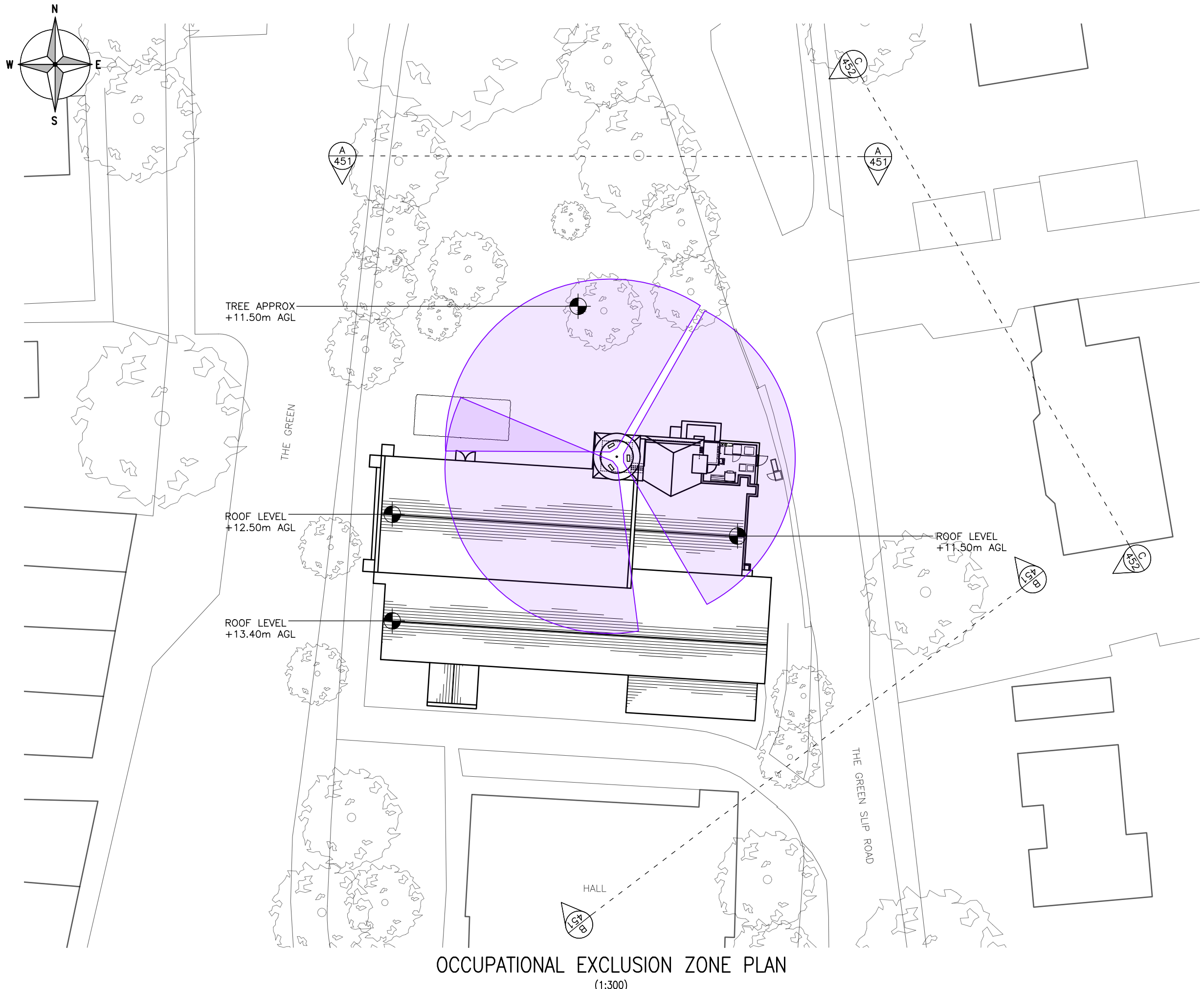
Purpose of issue:	Dwg Rev:
CONSTRUCTION	A

Drawing Number:	Pack Issue:
407	B

Surveyed By:	Original Sheet Size:	Pack Issue:
DR	A3	B
Drawn:	Date:	Checked:
NP	30.06.23	GD
Date:	30.06.23	

PROPOSED EXTERNAL EQUIPMENT PLAN
(1:25)





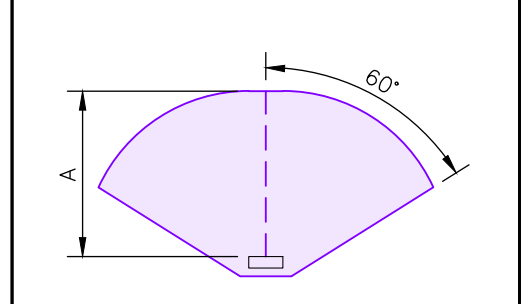
ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

ICNIRP ZONE INFORMATION

DOCUMENT REF.	SDN0009 (VF)	v5.0
ICNIRP DOCUMENT SECTION	8.3.2	
ICNIRP CONFIG CAPACITY	VM7F	
700-3800		

MORAN	SECTOR(S)	ALL
OCCUPATIONAL ICNIRP ZONE		
OCCUPATIONAL EXCL. ZONE (A)	13.41m	
OCCUPATIONAL BUILD HGT. (B)	3.71m	



B	Building Heights Corrected	NP	GD	08.09.23
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

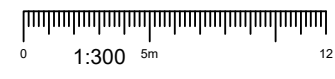
Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

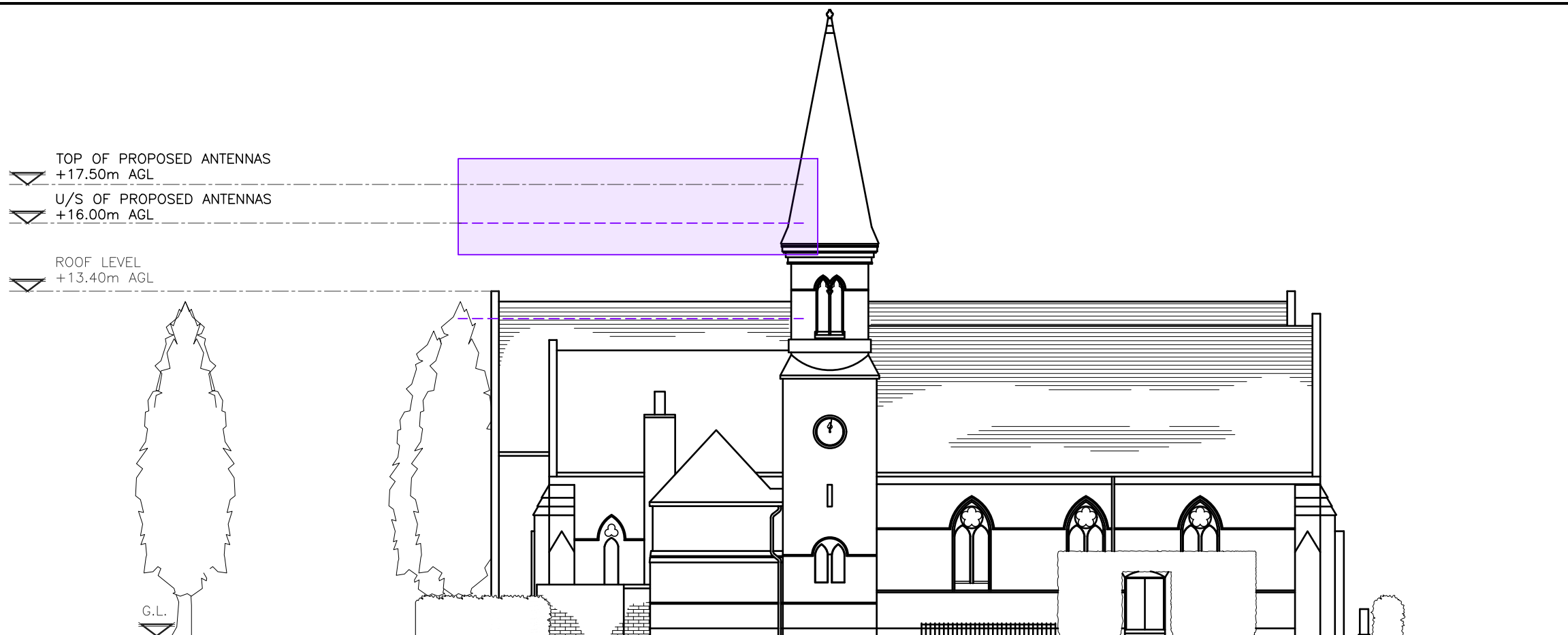
Site Address / Contact Details

ALL SAINTS CHURCH
 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

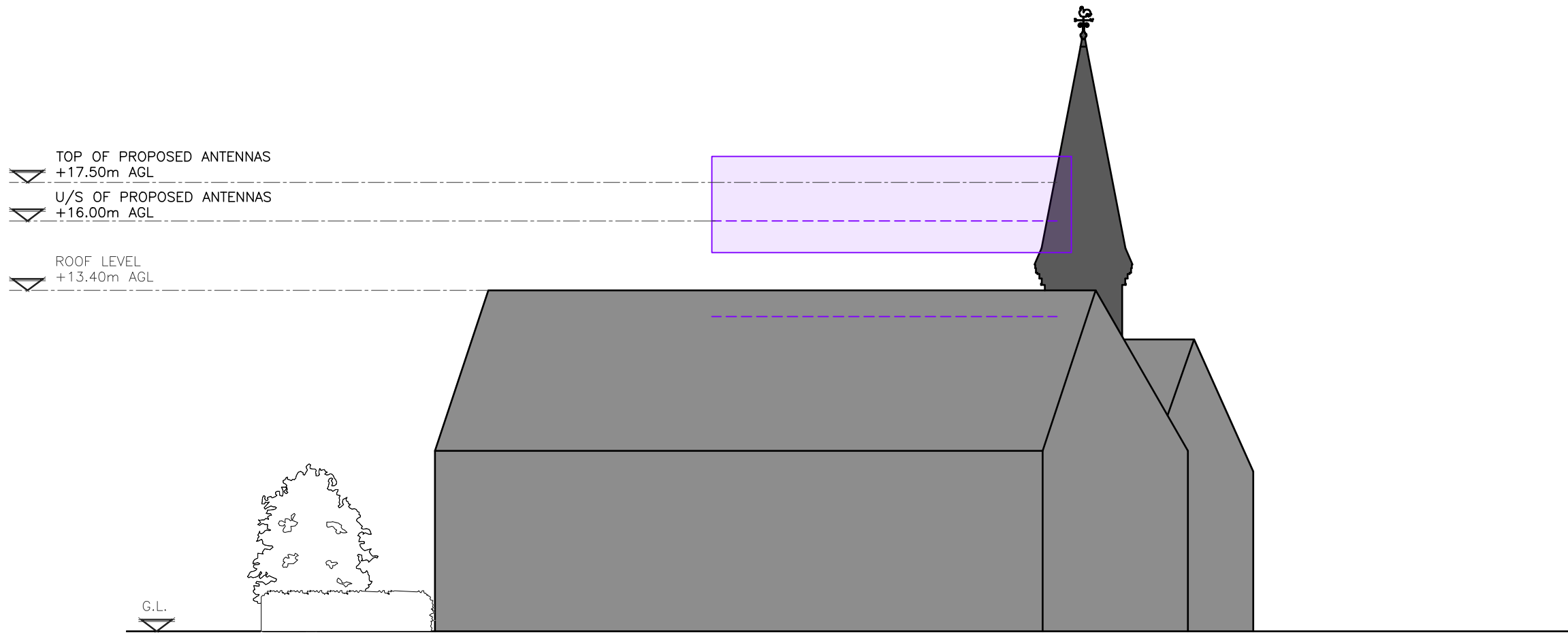
Drawing Title: OCCUPATIONAL ICNIRP ZONE PLAN			
Purpose of issue: CONSTRUCTION			Dwg Rev: B
Drawing Number: 450			B
Surveyed By: DR	Original Sheet Size: A3	Pack Issue:	
Drawn: NP	Date: 30.06.23	Checked: GD	Date: 30.06.23

These drawings comply with VF Standard ICNIRP guidelines, under configuration VU6F
 Designed in accordance with Cornerstone documents: SDN0009 v5.0





OCCUPATIONAL EXCLUSION ZONE ELEVATION A-A
(1:200)



OCCUPATIONAL EXCLUSION ZONE ELEVATION B-B
(1:200)

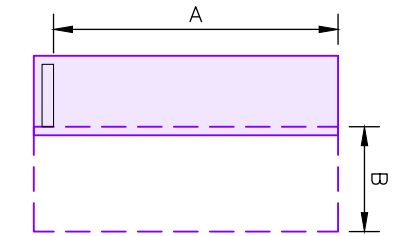
These drawings comply with VF Standard ICNIRP guidelines, under configuration VU6F
Designed in accordance with Cornerstone documents: SDN0009 v5.0



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R	E: 506975	N: 195331
ICNIRP ZONE INFORMATION		
DOCUMENT REF.	SDN0009 (VF)	v5.0
ICNIRP DOCUMENT SECTION	8.3.2	
ICNIRP CONFIG CAPACITY	VM7F	
700-3800		

MORAN	SECTOR(S)	ALL
OCCUPATIONAL ICNIRP ZONE		
OCCUPATIONAL EXCL. ZONE (A)	13.41m	
OCCUPATIONAL BUILD HGT. (B)	3.71m	



B	Building & Antenna Heights Corrected	NP	GD	08.09.23
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details

ALL SAINTS CHURCH
THE GREEN
CROXLEY GREEN
HERTFORDSHIRE
WD3 3HJ

Drawing Title:
OCCUPATIONAL ICNIRP ZONE ELEVATIONS – SHEET 1

Purpose of issue:	CONSTRUCTION	Dwg Rev:
Drawing Number:	451	B

Surveyed By:	Original Sheet Size:	Pack Issue:
DR	A3	

Drawn:	Date:	Checked:	Date:	
NP	30.06.23	GD	30.06.23	B

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

ICNIRP ZONE INFORMATION

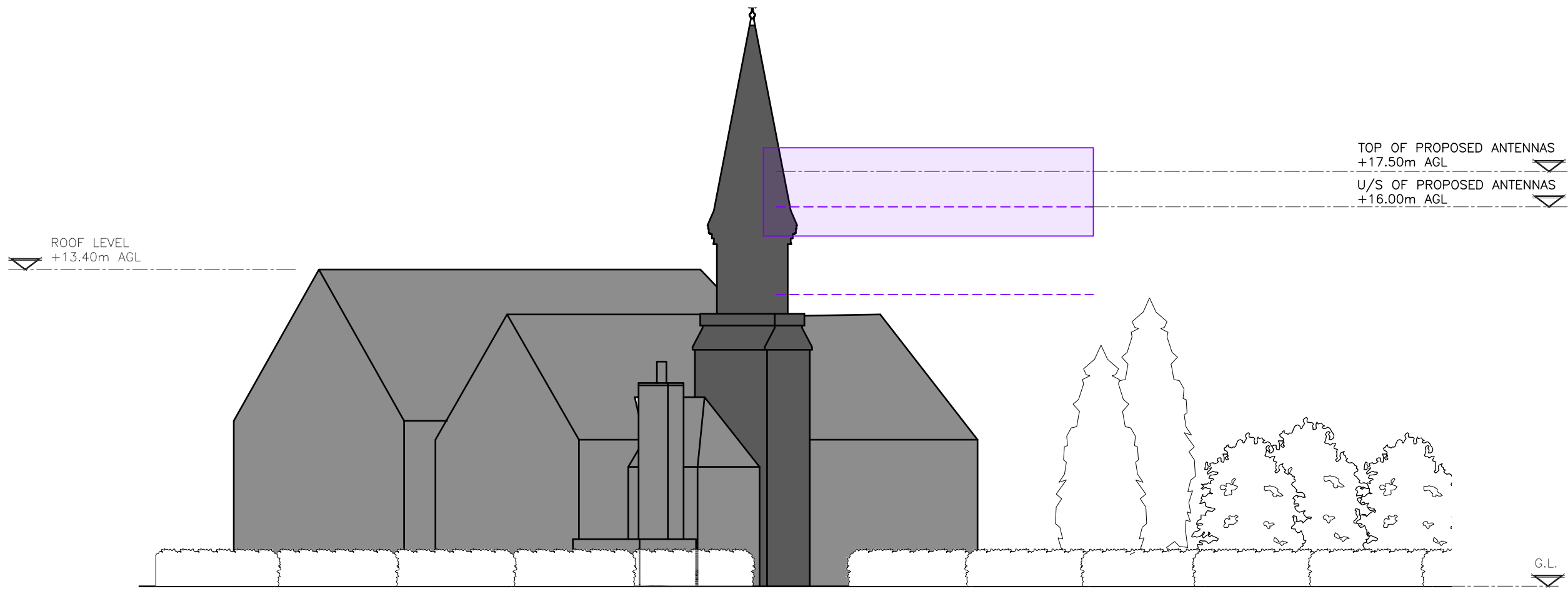
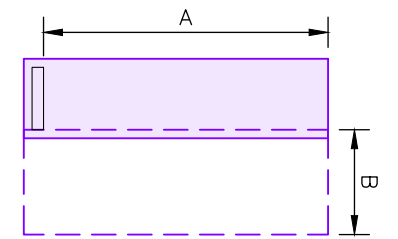
DOCUMENT REF.	SDN0009 (VF)	v5.0
ICNIRP DOCUMENT SECTION	8.3.2	
ICNIRP CONFIG CAPACITY	VM7F	
700-3800		

MORAN | SECTOR(S) | ALL

OCCUPATIONAL ICNIRP ZONE

OCCUPATIONAL EXCL. ZONE (A) 13.41m

OCCUPATIONAL BUILD HGT. (B) 3.71m



OCCUPATIONAL EXCLUSION ZONE ELEVATION C-C
(1:200)

B	Building & Antenna Heights Corrected	NP	GD	08.09.23
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name | Opt.
ALL SAINTS CHURCH | -

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details
ALL SAINTS CHURCH
THE GREEN
CROXLEY GREEN
HERTFORDSHIRE
WD3 3HJ

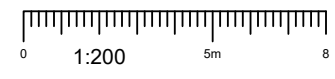
Drawing Title:
OCCUPATIONAL ICNIRP ZONE ELEVATION - SHEET 2

Purpose of issue: CONSTRUCTION | Dwg Rev: B

Drawing Number: 452

Surveyed By: DR | Original Sheet Size: A3 | Pack Issue: B

Drawn: NP | Date: 30.06.23 | Checked: GD | Date: 30.06.23 | B



VF VOD CODE: MJ2+MJ11+J31

EXISTING & PROPOSED ANTENNA SCHEDULE (EXISTING EQUIPMENT SHOWN GREY)

PROPOSED & EXISTING ANTENNAS	OPERATOR	FUNCTION	FEEDER/FIBRE				BIAS T's/MHA's/RRU's/JUMPERS/COMBINERS							ANTENNAS														
			LENGTH(m) & DIAMETER (SEE GUIDANCE NOTES BELOW)				TYPE (COAX OR FIBRE)	FEEDERS QTY		FIBRE QTY	FIBRE LENGTH	BIAS T QTY	MHA QTY	MHA TO ANTENNA JUMPER LENGTH (m) (R'TOPS & G'FIELDS)	RRU QTY	RRU TO ANTENNA JUMPER LENGTH (m) (MAX. LENGTH AS PER TEF/VF SPEC)	LOW LEVEL COMBINER TYPE (ADJ. TO RADIO EQUIPMENT)	HIGH LEVEL COMBINER TYPE (ADJ. TO ANTENNA)	ANT. REF.	ANTENNA MANUFACTURERS PART No.	BRG'	HEIGHT TO TOP (m)	HEIGHT TO C/L (m)	HEIGHT TO U/S (m)	LOCATION (POLE MOUNTED, HEADFRAME, WITHIN SHROUD ETC)	STATUS	COMMENTS	
			MF1	MF(J1)	MF(J2)	TOTAL		EX'TNG	PROP																			
SEC 1 E	VF	1L08	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	A1a	COMMSCOPE EGYHHTT-65B-R6	90	17.50	16.59	15.68	POLE MOUNT	REMOVE	-	
	VF	1GU09	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	A1b									
	VF	1L21(TX)	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	A1c									
	VF	1L21(RX)	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	A1d									
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A1e
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A1f
SEC 1 P	VF	1L08	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	A1a	COMMSCOPE RRYHHHTS4-65A-R7	90	17.50	16.75	16.00	POLE MOUNT	NEW	-	
	VF	1GU09	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	A1b									
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A1c
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A1d
	VF	1LU21	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	A1e									
	VF	1L26	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	A1g									
SEC 2 E	VF	2L08	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	A2a	COMMSCOPE EGYHHTT-65B-R6	230	17.50	16.59	15.68	POLE MOUNT	REMOVE	-	
	VF	2GU09	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	-									A2b
	VF	2L21(TX)	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	-									A2c
	VF	2L21(RX)	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	-									A2d
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A2e
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A2f
SEC 2 P	VF	2L08	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	A2a	COMMSCOPE RRYHHHTS4-65A-R7	230	17.50	16.75	16.00	POLE MOUNT	NEW	-	
	VF	2GU09	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	-									A2b
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A2c
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A2d
	VF	2LU21	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	A2e									
	VF	2L26	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	A2g									
SEC 3 E	VF	3L08	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	A3a	COMMSCOPE EGYHHTT-65B-R6	330	17.50	16.59	15.68	POLE MOUNT	REMOVE	-	
	VF	3GU09	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	-									A3b
	VF	3L21(TX)	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	-									A3c
	VF	3L21(RX)	-	-	-	-	FIBRE	-	-	1	30	-	-	-	1	5m	-	-	-									A3d
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A3e
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A3f
SEC 3 P	VF	3L08	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	A3a	COMMSCOPE RRYHHHTS4-65A-R7	330	17.50	16.75	16.00	POLE MOUNT	NEW	-	
	VF	3GU09	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	-									A3b
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A3c
	VF	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									A3d
	VF	3LU21	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	A3e									
	VF	3L26	-	1/2"=8m	-	-	FIBRE	-	-	2	30	-	-	-	1	8m	-	-	A3g									
SEC 3 P	VF	3NR34	-	-	-	-	FIBRE	-	-	1	40	-	-	-	1	3m	-	-	A3i	COMMSCOPE RRYHHHTS4-65A-R7	330	17.50	16.75	16.00	POLE MOUNT	NEW	-	
	VF	3NR34	-	-	-	-	FIBRE	-	-	1	40	-	-	-	1	3m	-	-	-									A3h

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

DESIGN CONCESSION LIST

No.	DESCRIPTION OF CONCESSION REQUIRED	
-	-	
CONCESSION TYPE	CONCESSION NUMBER	APPROVAL DATE
-	-	-

B	Antenna Heights Corrected	NP	GD	08.09.23
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name		Opt.
ALL SAINTS CHURCH		-
Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

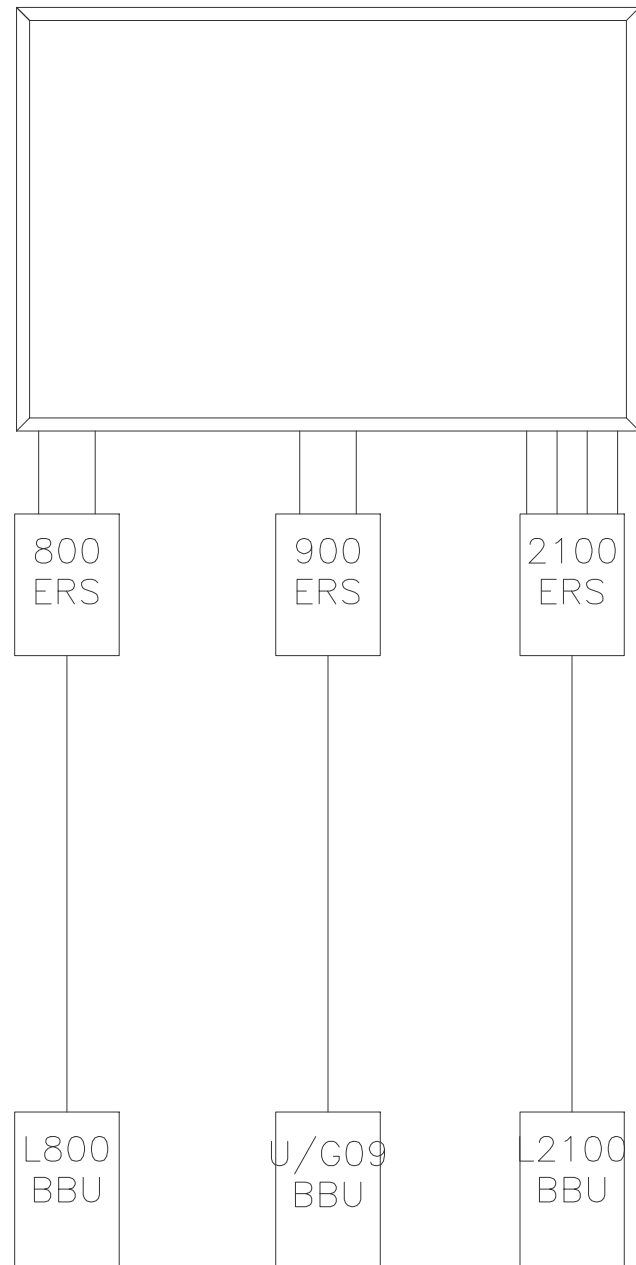
Site Address / Contact Details
 ALL SAINTS CHURCH
 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

Drawing Title: ANTENNA SCHEDULES				
Purpose of issue: CONSTRUCTION				Dwg Rev:
Drawing Number: 550				B
Surveyed By: DR	Original Sheet Size: A3		Pack Issue:	
Drawn: NP	Date: 30.06.23	Checked: GD	Date: 30.06.23	B

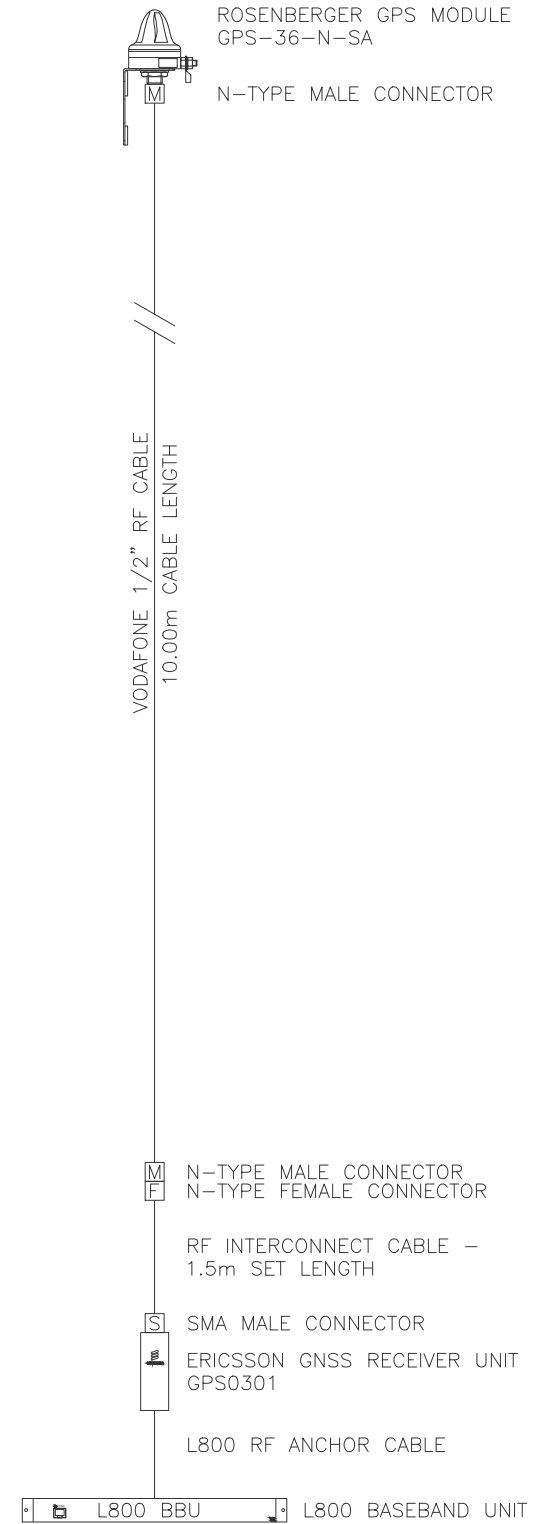
OPERATOR & FUNCTION LEGEND		FEEDER/FIBRE LEGEND		BIAS T's/MHA's/RRU's/JUMPER/COMBINERS LEGEND		ANTENNA LEGEND	
TEF =	TELEFONICA	MF1 =	MAIN FEEDER LENGTH (INCLUDING PRE-RIGGED IN SF COLUMN)	BIAS T =	No. OF BIAS T's FOR GIVEN TECHNOLOGY	A =	DESIGNATION (A-Z)
VF =	VODAFONE	MF(J1) =	MAIN FEEDER JUMPER 1 LENGTH (LOW LEVEL COMBINERS)	MHA =	No. OF MHA's FOR GIVEN TECHNOLOGY	1 =	SECTOR (1-6)
1 =	SECTOR (2,3 etc)	MF(J2) =	MAIN FEEDER JUMPER 2 LENGTH (HIGH LEVEL COMBINERS)	MHA JUMPER =	JUMPER LENGTH BETWEEN MHA & MAIN FEEDER	b =	PORT REFERENCE (a-z)
U =	UMTS (G=GSM) (L=LTE)	TOTAL =	TOTAL FEEDER LENGTH	RRU =	No. OF RRU's FOR GIVEN TECHNOLOGY (ERS/RRH)	BRG' =	REQUIRED BEARING IN DEGREES
21 =	2100 BAND (09=0900,18=1800)	TYPE =	COAX, FIBRE OR HYBRID	RRU JUMPER =	JUMPER LENGTH BETWEEN RRU & MAIN FEEDER	STATUS =	EITHER NEW, REMAIN, OR REMOVE

M3B e_EOM_340_2205_00B

COMMSCOPE
EGYHHTT-65B-R6 14-PORT



EXISTING VF ANTENNA SCHEMATIC
(NTS)



EXISTING VF GPS SCHEMATIC
(NTS)

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

NOTES:

A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details		
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ		

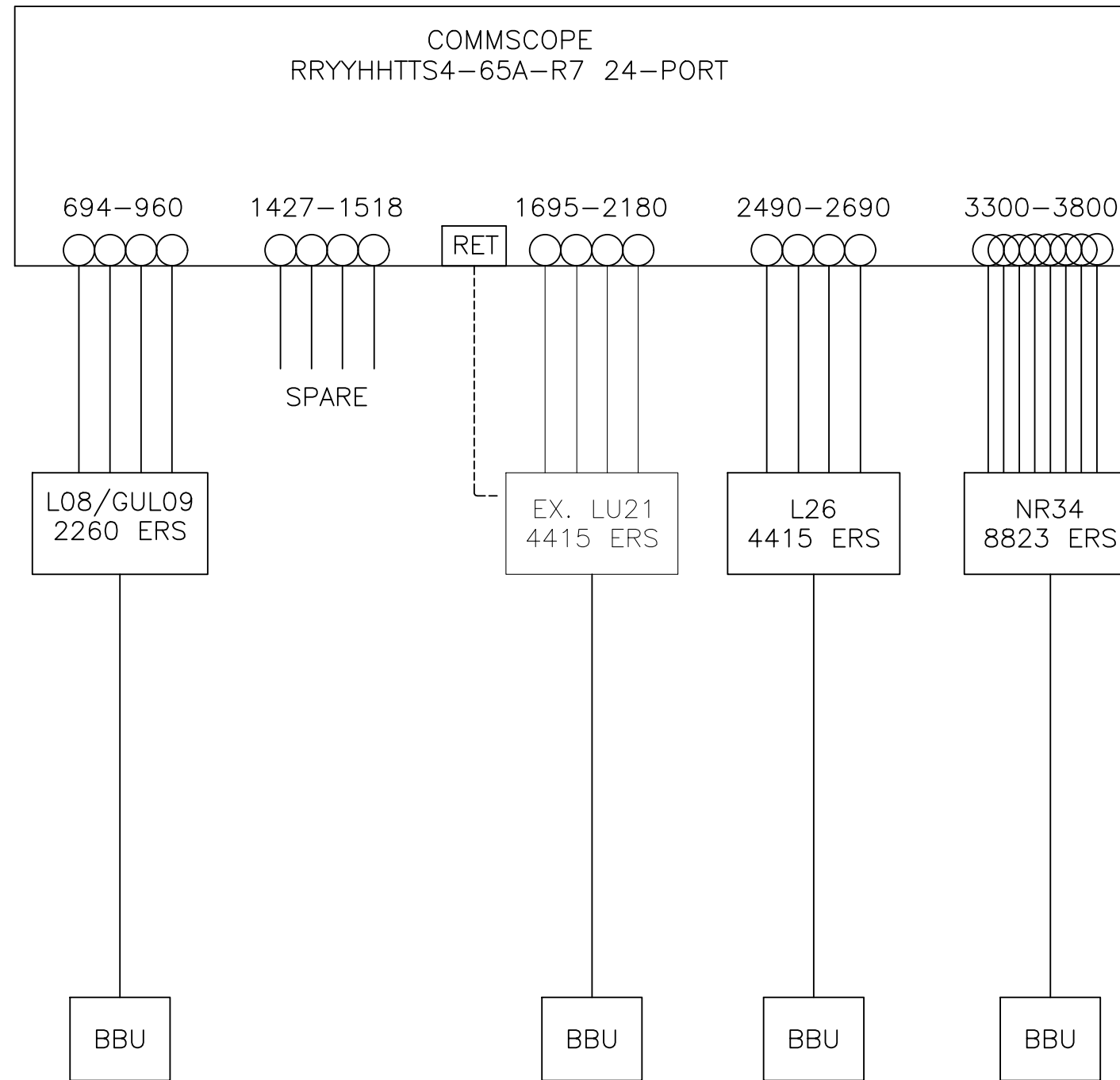
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EXISTING VF ANTENNA SCHEMATIC

Purpose of issue:	CONSTRUCTION	Dwg Rev:
Drawing Number:	551	A

Surveyed By:	Original Sheet Size:	Pack Issue:
DR	A3	B

Drawn:	Date:	Checked:	Date:	
NP	30.06.23	GD	30.06.23	B

VF VOD CODE:
MJ2+MJ11+J31



PROPOSED VF ANTENNA SCHEMATIC
(NTS)

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

NOTES:

A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details		
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ		

Drawing Title:
PROPOSED VF ANTENNA SCHEMATIC

Purpose of issue:	CONSTRUCTION	Dwg Rev:
Drawing Number:	552	A

Surveyed By:	Original Sheet Size:	Pack Issue:
DR	A3	B

Drawn:	Date:	Checked:	Date:	
NP	30.06.23	GD	30.06.23	B

ENCLOSURE SCHEDULE								
EXISTING/ PROPOSED	OPERATOR	MANUFACTURER	MODEL	DIMENSIONS (WxDxH)	LOCATION	COLOUR/ FINISH	STATUS	COMMENTS
EXISTING	VF	TFL	CSC	800x660x1770	COMPOUND	GREY	REMAIN	WITH PLINTH

RF EQUIPMENT SCHEDULE									
EXISTING/ PROPOSED	OPERATOR	MANUFACTURER	MODEL	DIMENSIONS (WxDxH)	LOCATION	QUANTITY	COLOUR/ FINISH	STATUS	COMMENTS
EXISTING	VF	ERICSSON	2212 ERS	342x149x420	CLOCK CHAMBER	3	STANDARD	REMOVE	GU09
EXISTING	VF	ERICSSON	2217 ERS	298x128x351	CLOCK CHAMBER	3	STANDARD	REMOVE	L08
EXISTING	VF	ERICSSON	4415 ERS	342x149x420	CLOCK CHAMBER	3	STANDARD	REMAIN	L21
EXISTING	VF	ERICSSON	GU BBU 6620	-	CSC	1	STANDARD	REMAIN	-
EXISTING	VF	ERICSSON	L BBU 6630	-	CSC	1	STANDARD	REMAIN	-
EXISTING	VF	ROSENBERGER	GPS MODULE	68.5ø x 95mm	COMPOUND WALL	1	GREY	REMAIN	-
EXISTING	VF	ROSENBERGER	GPS RECEIVER	-	CSC	1	-	REMAIN	-
EXISTING	VF	ERICSSON	ERS RAIL	450mm LONG	CLOCK CHAMBER	3	-	REMAIN	-
PROPOSED	VF	ERICSSON	2260 ERS	398x143x447	CLOCK ROOM	3	STANDARD	NEW	L08/GUL09
PROPOSED	VF	ERICSSON	4480 ERS	398x151x553	CLOCK ROOM	3	STANDARD	NEW	L21/L26
PROPOSED	VF	ERICSSON	4415 ERS	342x149x420	CLOCK CHAMBER	3	STANDARD	NEW	L26
PROPOSED	VF	ERICSSON	8823 ERS	342x146x495	CLOCK ROOM	3	STANDARD	NEW	NR34
PROPOSED	VF	ERICSSON	ERS RAIL	180mm LONG	ABOVE ANTENNAS	3	STANDARD	NEW	SEF 901 305/0180
PROPOSED	VF	ERICSSON	ERS RAIL POLE BRACKET	-	ABOVE ANTENNAS	3	STANDARD	NEW	SXK 125 2540/01
PROPOSED	VF	ERICSSON	NR BBU 6651	-	CSC	-	STANDARD	NEW	-

AC POWER SUPPLY SCHEDULE									
EXISTING/ PROPOSED	OPERATOR	LOCATION	SUPPLY TYPE (LL/DNO/LOCAL THIRD PARTY)	PHASE (SINGLE/THREE/TWO)	SOURCE OCPD RATING (A)	EARTHING SYSTEM TYPE (TN-C-S/TT)	2nd SUPPLY TO BUILDING (Y/N)	LPS (ADDITION/NEW)	COMMENTS
EXISTING	CORNERSTONE	METER CABINET	DNO	THREE	100A	-	Y	-	-

DC POWER SUPPLY UNIT SCHEDULE									
EXISTING/ PROPOSED	OPERATOR	MANUFACTURER	MODEL	LOCATION	AC SUPPLY TO PSU BREAKER SIZE (AMPS)	RECTIFIER SIZE (kW)	RECTIFIER QUANTITY	UPGRADE REQUIRED (Y/N)	COMMENTS
EXISTING	VF	DELTA	-	CSC	63A	2.9kW	4	N	-

TRANSMISSION SUPPLY SCHEDULE								
EXISTING/ PROPOSED (ENCLOSURE)	OPERATOR		TRANSMISSION ENCLOSURE	TRANSMISSION SOLUTION (MICROWAVE ONLY/FIBRE ONLY/ MICROWAVE+FIBRE (WITH PROVIDER NAME))	U SPACE AVAILABLE	CURRENT TRANSMISSION EQUIPMENT LOCATION	PROPOSED TRANSMISSION EQUIPMENT LOCATION	COMMENTS
	HOST	SHARER						
EXISTING	VF	-	CSC	FIBRE	7U	X	-	-

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

DESIGN DEPENDENCIES	COMPLETED
STAT SEARCH RESULTS	NO -
ASBESTOS REPORT	✓ 14.11.2018
RADAR SCAN REPORT	NO -
COOLING CALCULATIONS	NO -
LL FIRE ALARM ASSESS.	NO -
GDC LEVEL 2	NO -
STRUCTURAL CALCS.	✓ 01.08.2023
HD BOLT GRADE TEST	NO -
FOUNDATION CALCS.	NO -
BOREHOLE REPORT	NO -
TRIAL HOLE REPORT	NO -
BOLT PULL TEST	NO -
BUILDING REG'S APP.	NO -
NET RAIL TECH. PACK	NO -
DNO QUOTE APPROVAL	NO -
GRP APPROVAL	NO -

REFER TO THE SITE SPECIFIC DRAWING SUBMISSION CHECKLIST (SDN0020) FOR A COMPREHENSIVE LIST AND INSTRUCTION ON WHERE TO FIND ALL ACCOMPANYING DESIGN DOCUMENTATION.

REV	MODIFICATION	BY	CH	DATE
A	Issued for Construction	NP	GD	30.06.23



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No	
CORNERSTONE	VF
E303525	VMO2
144306_24	11246_15
	36310

Site Address / Contact Details
 ALL SAINTS CHURCH
 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

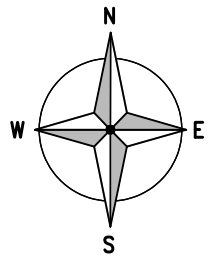
Drawing Title: EQUIPMENT SCHEDULE

Purpose of issue: CONSTRUCTION Dwg Rev:

Drawing Number: 570 A

Surveyed By: DR Original Sheet Size: A3 Pack Issue:

Drawn: NP Date: 30.06.23 Checked: GD Date: 30.06.23 B



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

NOTE: EXISTING ANTENNA SUPPORT POLE TOP BRACKETS TO HAVE RESIN ANCHORS PROOF TESTED TO A MAXIMUM LOAD OF 0.50KN

NOTES:

PROPOSED 1No. VF ANTENNA TO BE MOUNTED ON EXISTING POLE

PROPOSED 1No. 1600mm LONG 100x50x6 UA BRACE U-BOLTED TO TOP OF ANTENNA POLE WITH 2No. M12 U-BOLTS EACH END

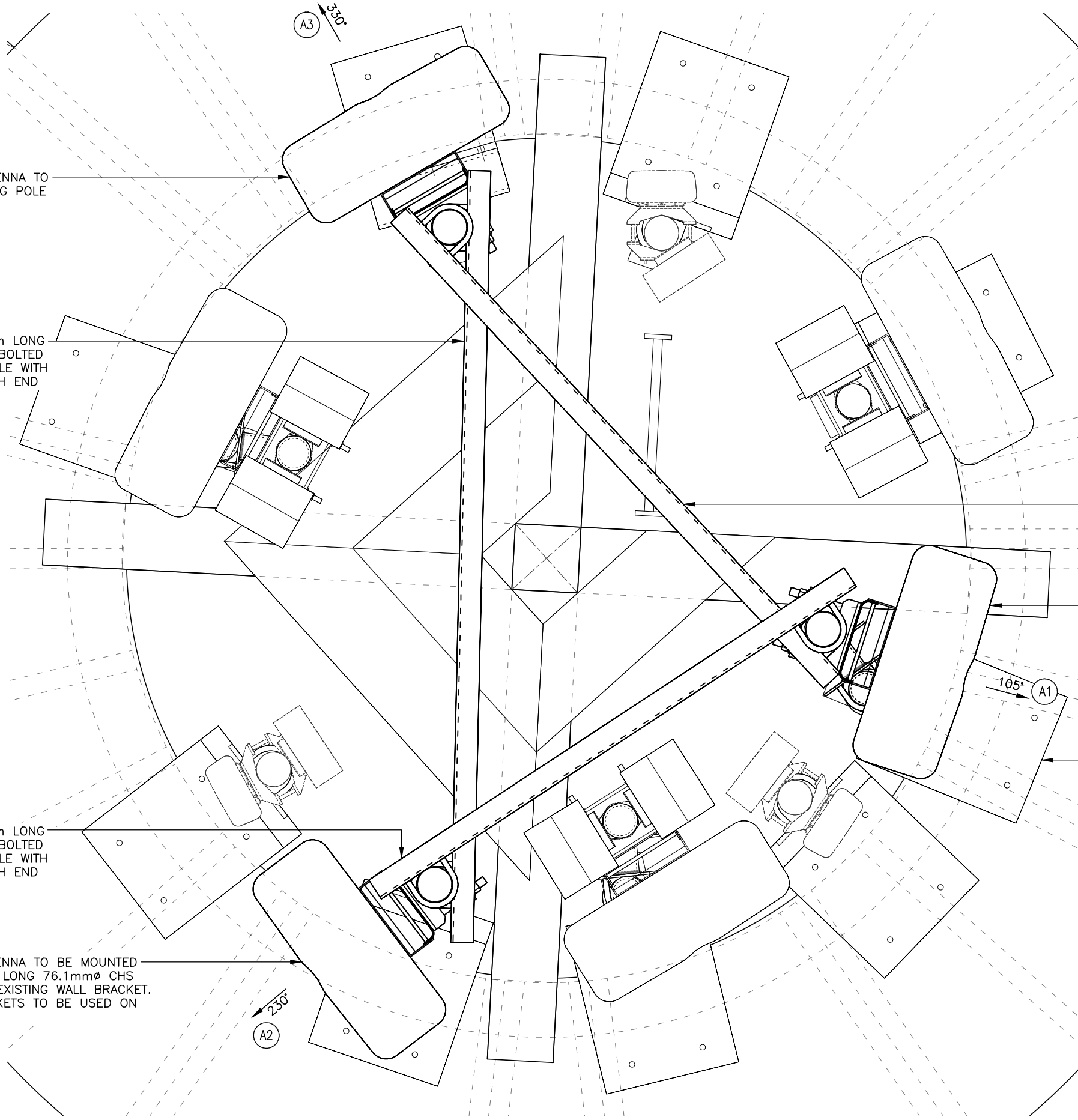
PROPOSED 1No. 1400mm LONG 100x50x6 UA BRACE U-BOLTED TO TOP OF ANTENNA POLE WITH 2No. M12 U-BOLTS EACH END

PROPOSED 1No. VF ANTENNA TO BE MOUNTED ON PROPOSED 2000mm LONG 60.3mm ϕ CHS 5 SUPPORT POLE MOUNTED TO EXISTING POLE USING EXISTING OFF-SET BRACKETS

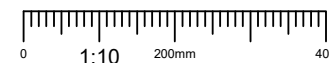
EXISTING ANTENNA MOUNTING. SEE DETAILS ON DWG 601 & 602

PROPOSED 1No. 1250mm LONG 100x50x6 UA BRACE U-BOLTED TO TOP OF ANTENNA POLE WITH 2No. M12 U-BOLTS EACH END

PROPOSED 1No. VF ANTENNA TO BE MOUNTED ON PROPOSED 3500mm LONG 76.1mm ϕ CHS 5.0 POLE MOUNTED TO EXISTING WALL BRACKET. EXISTING OFF-SET BRACKETS TO BE USED ON OTHER SECTOR



ANTENNA SETTING OUT PLAN
(1:10)



A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ

Drawing Title: ANTENNA SETTING OUT PLAN

Purpose of issue:	Dwg Rev:
CONSTRUCTION	

Drawing Number:	A
600	

Surveyed By:	Original Sheet Size:	Pack Issue:
DR	A3	

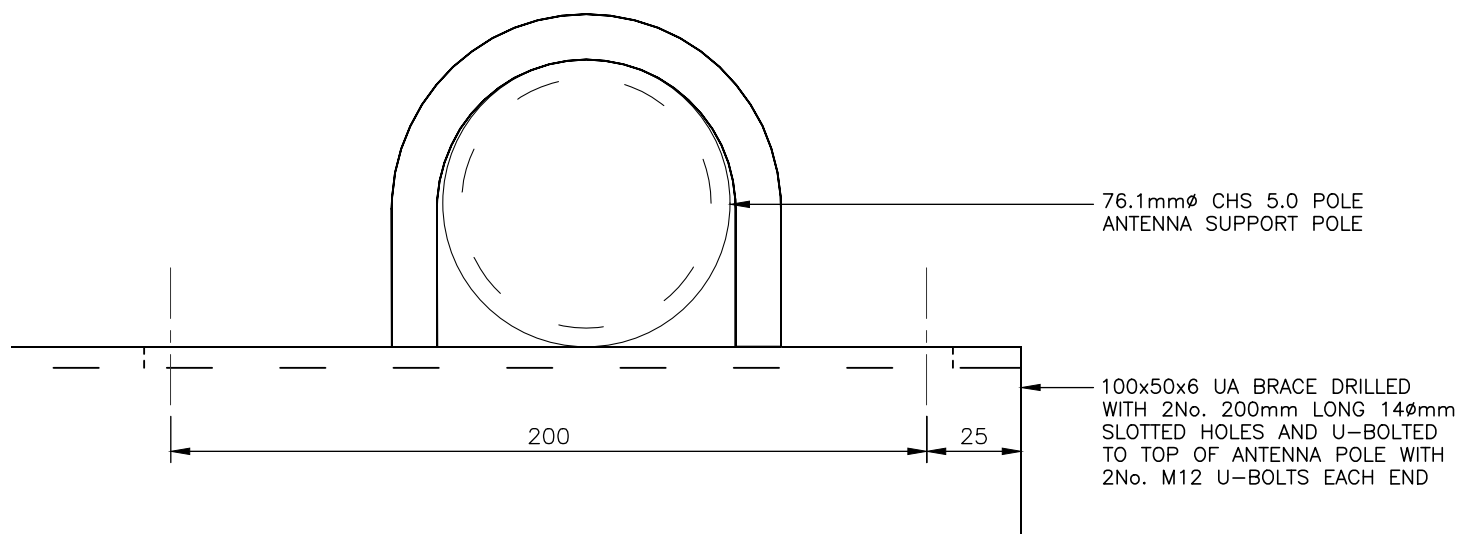
Drawn:	Date:	Checked:	Date:	B
NP	30.06.23	GD	30.06.23	

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

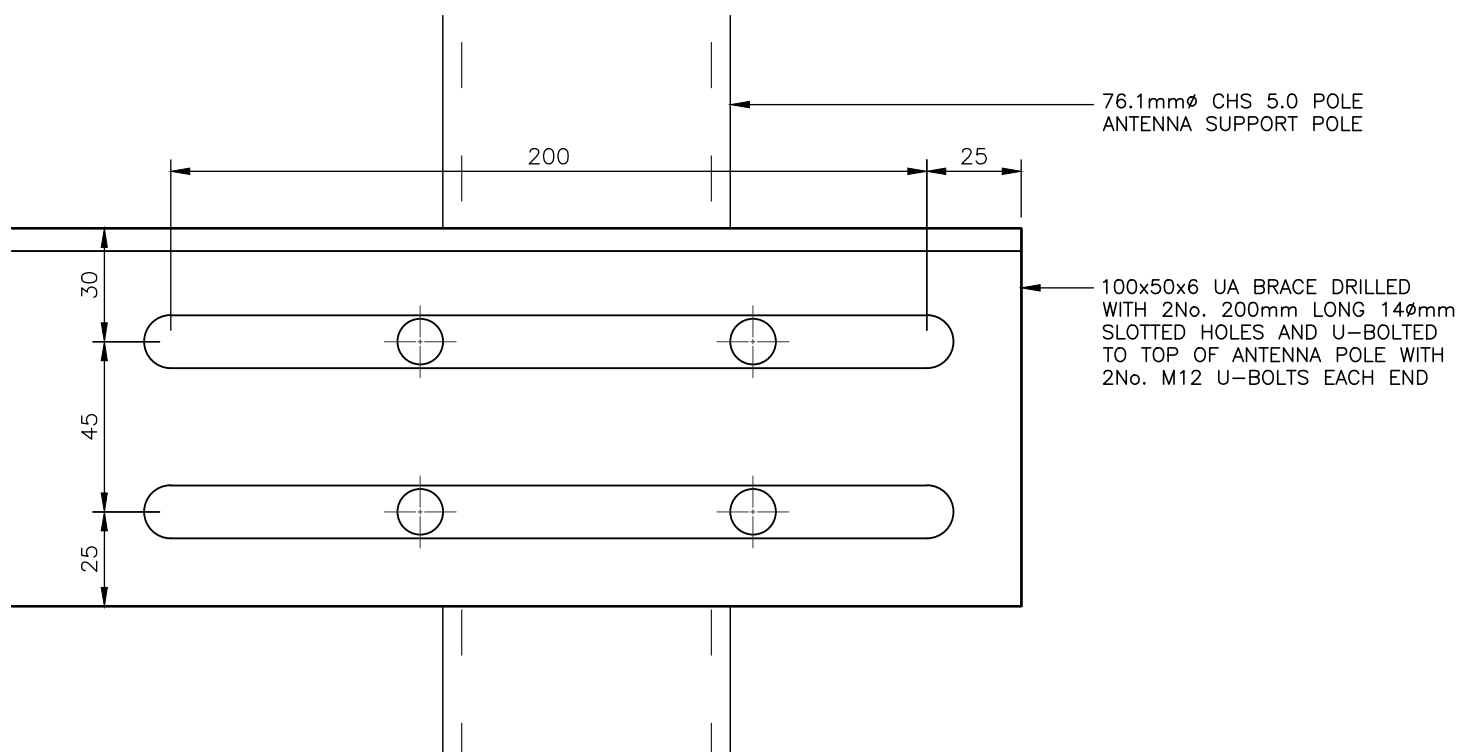
N.G.R | E: 506975 | N: 195331

NOTE: EXISTING ANTENNA SUPPORT POLE TOP BRACKETS TO HAVE RESIN ANCHORS PROOF TESTED TO A MAXIMUM LOAD OF 0.50KN

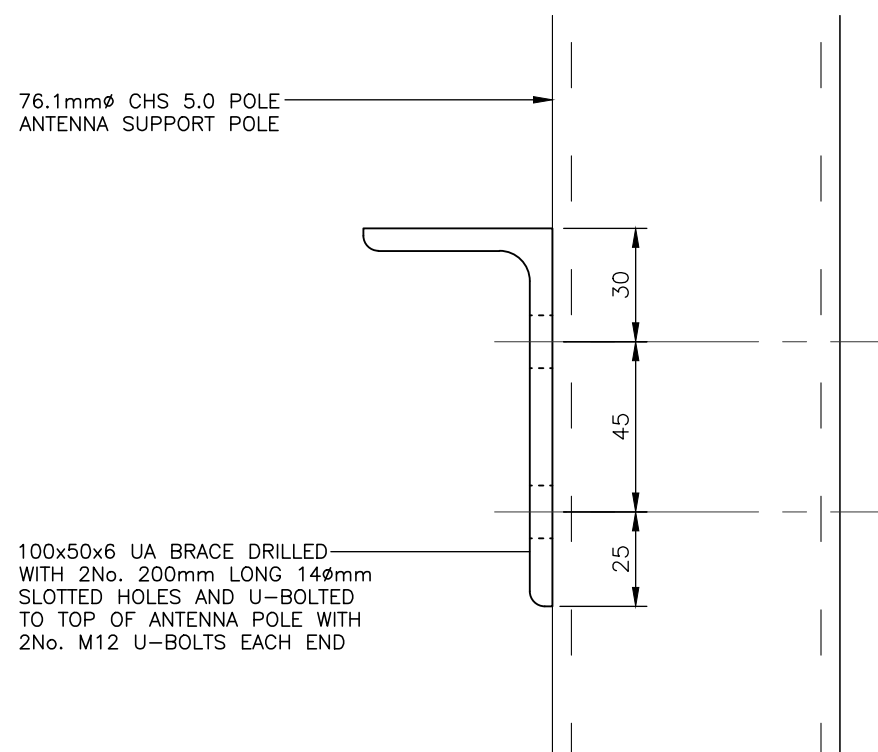
NOTES:



PLAN



FRONT ELEVATION



SIDE ELEVATION

VF ANTENNA BRACE SUPPORT DETAIL
(1:2)



A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details		
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ		

Drawing Title:
VF ANTENNA BRACE SUPPORT DETAIL

Purpose of issue:	CONSTRUCTION	Dwg Rev:
		A

Drawing Number:	601	Pack Issue:
		B

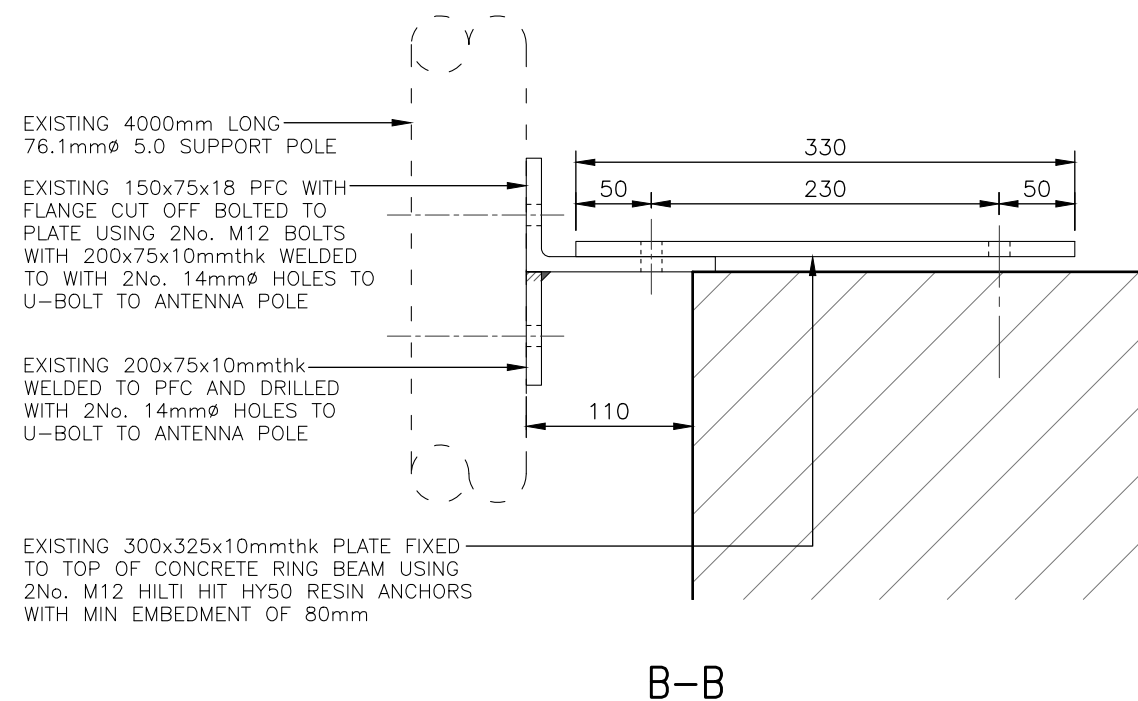
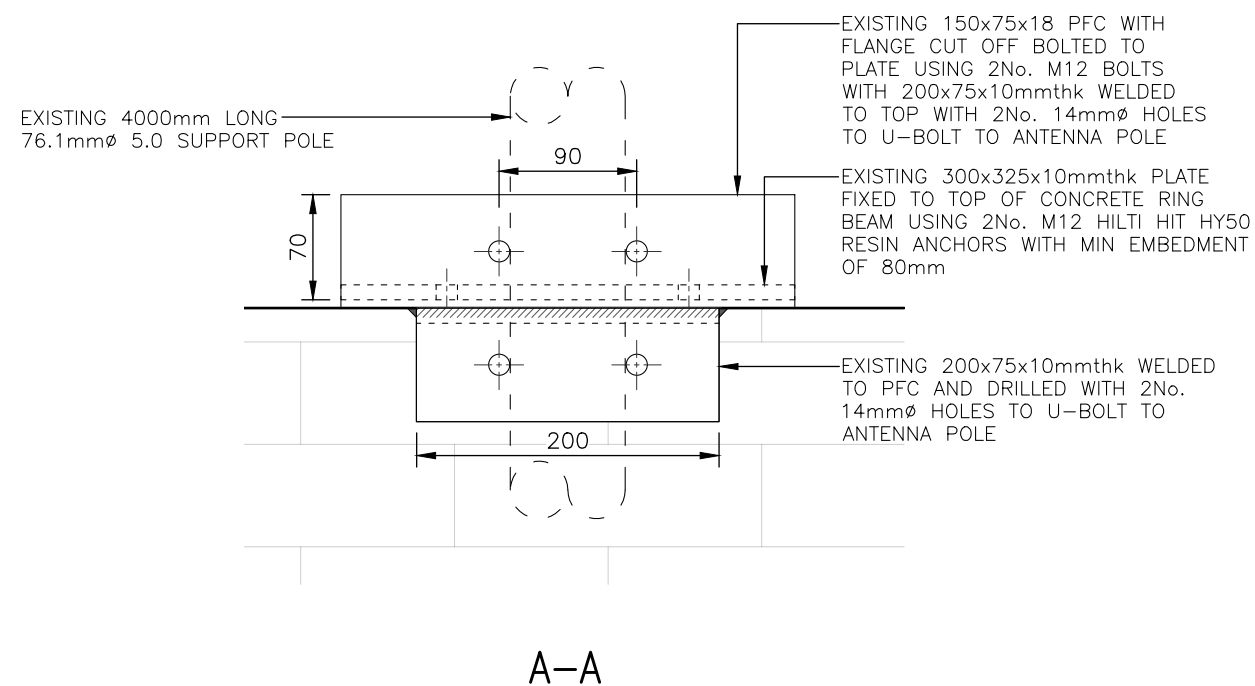
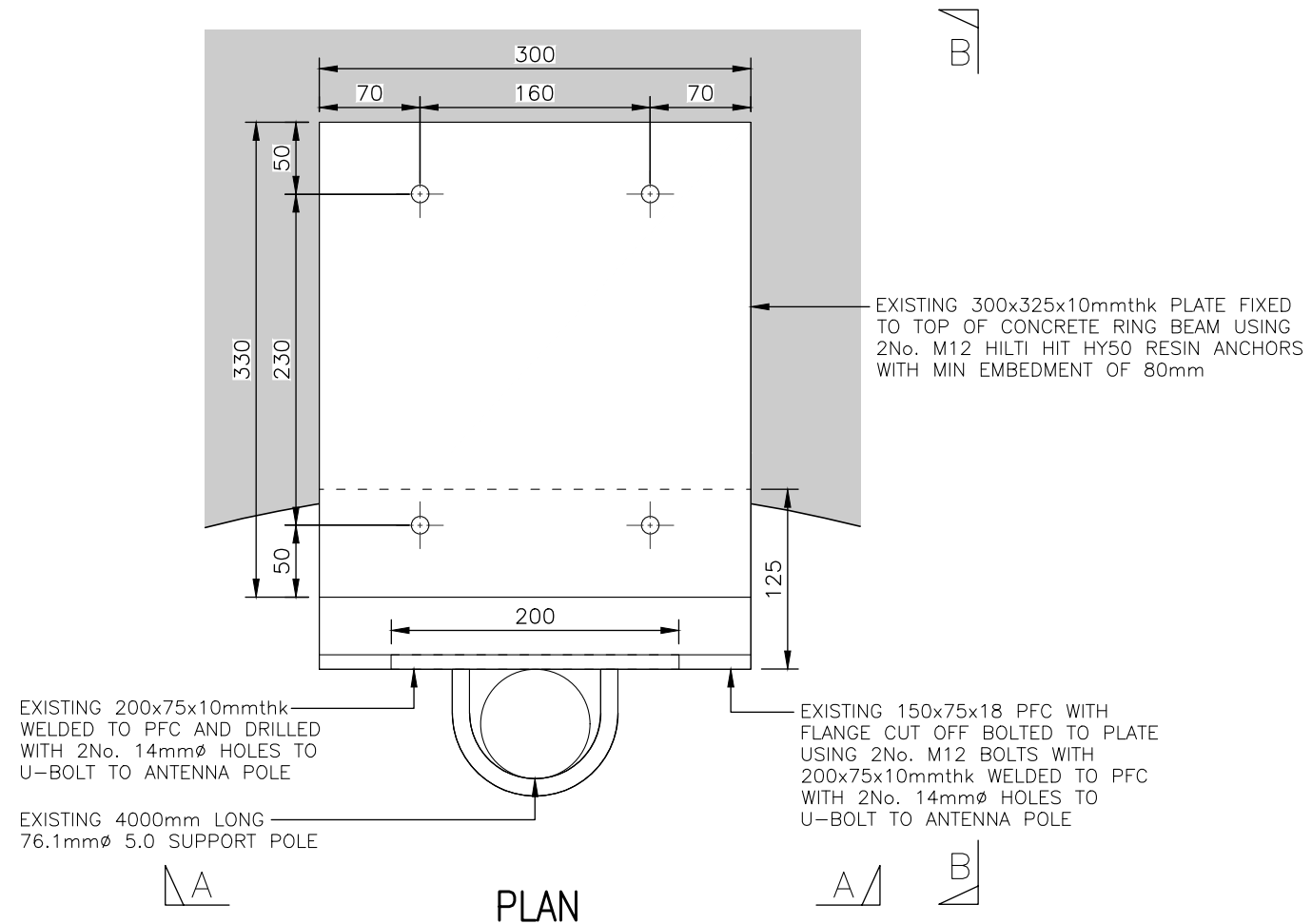
Drawn:	Date:	Checked:	Date:	
NP	30.06.23	GD	30.06.23	B

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

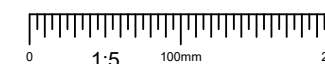
N.G.R E: 506975 N: 195331

NOTES:

NOTE: EXISTING ANTENNA
SUPPORT POLE TOP BRACKETS
TO HAVE RESIN ANCHORS
PROOF TESTED TO A MAXIMUM
LOAD OF 0.50KN



EXISTING ANTENNA SUPPORT DETAILS – TOP FIXING
(1:5)



REV	A	Issued for Construction	NP	GD	30.06.23
		MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details

ALL SAINTS CHURCH
THE GREEN
CROXLEY GREEN
HERTFORDSHIRE
WD3 3HJ

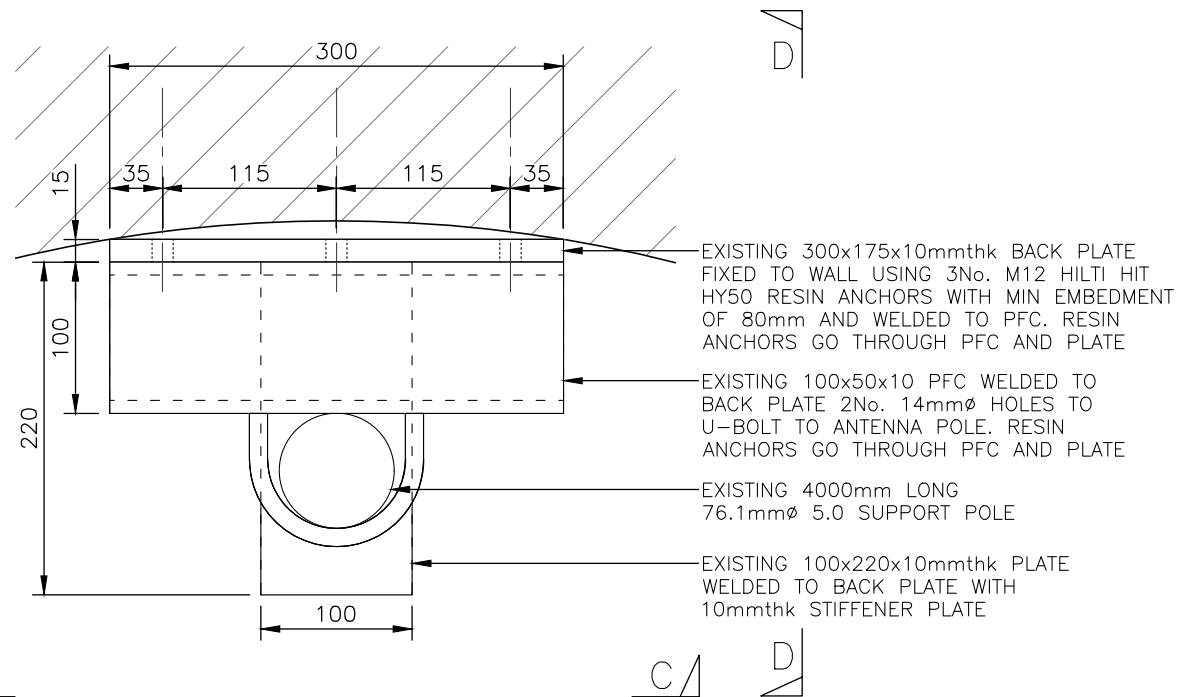
Drawing Title:
EXISTING ANTENNA SUPPORT DETAILS – TOP FIXING

Purpose of issue:	CONSTRUCTION	Dwg Rev:
Drawing Number:	602	A

Surveyed By:	DR	Original Sheet Size:	A3	Pack Issue:
Drawn:	NP	Date:	30.06.23	Checked:
				Date:
				30.06.23

NOTES:

NOTE- OFF-SET
TO BE RE-USED

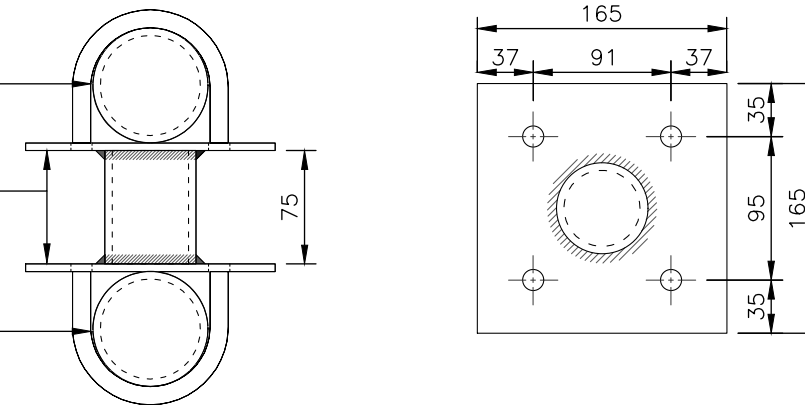


PLAN

EXISTING 76.1mm ϕ 5.0 POLE U-BOLTED TO PLATE WITH 2No. M-12 U-BOLTS

EXISTING 2No. 165x165x10mmthk PLATES WELED TOGETHER USING 75mm LONG 60.3mm ϕ CHS 5 AND DRILLED WITH 4No. 14mm ϕ HOLES PER PLATE

EXISTING 76.1mm ϕ 5.0 POLE U-BOLTED TO PLATE WITH 2No. M-12 U-BOLTS



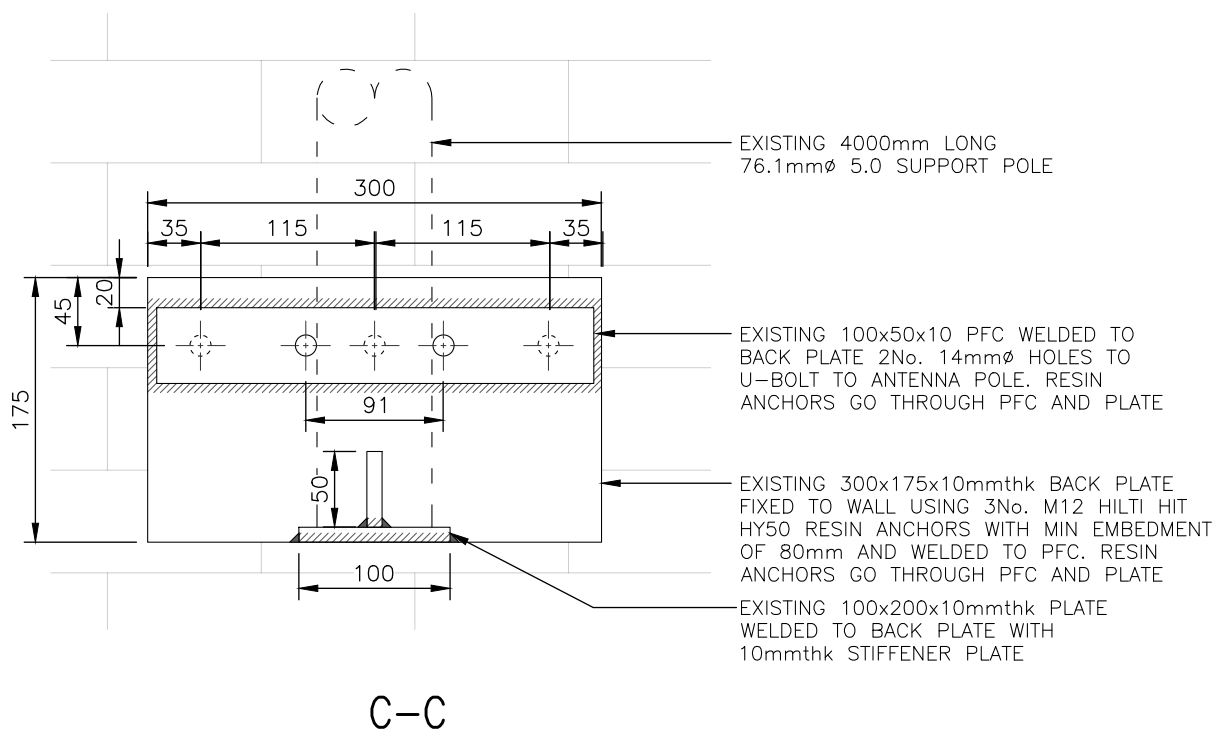
EXISTING OFF-SET BRACKET DETAIL

(1:5)

C

C/A

D



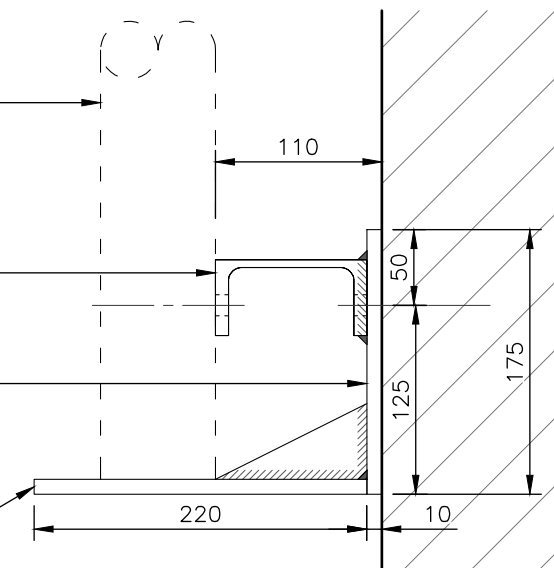
C-C

EXISTING 4000mm LONG 76.1mm ϕ 5.0 SUPPORT POLE

EXISTING 100x50x10 PFC WELDED TO BACK PLATE 2No. 14mm ϕ HOLES TO U-BOLT TO ANTENNA POLE. RESIN ANCHORS GO THROUGH PFC AND PLATE

EXISTING 300x175x10mmthk BACK PLATE FIXED TO WALL USING 3No. M12 HILTI HIT HY50 RESIN ANCHORS WITH MIN EMBEDMENT OF 80mm AND WELDED TO PFC. RESIN ANCHORS GO THROUGH PFC AND PLATE

EXISTING 100x200x10mmthk PLATE WELDED TO BACK PLATE WITH 10mmthk STIFFENER PLATE

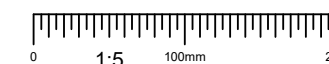


D-D

NOTE: EXISTING ANTENNA SUPPORT POLE TOP BRACKETS TO HAVE RESIN ANCHORS PROOF TESTED TO A MAXIMUM LOAD OF 0.50KN

EXISTING ANTENNA SUPPORT DETAILS - BOTTOM FIXING

(1:5)



A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

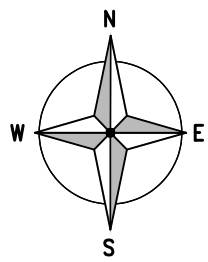
Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details		
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ		

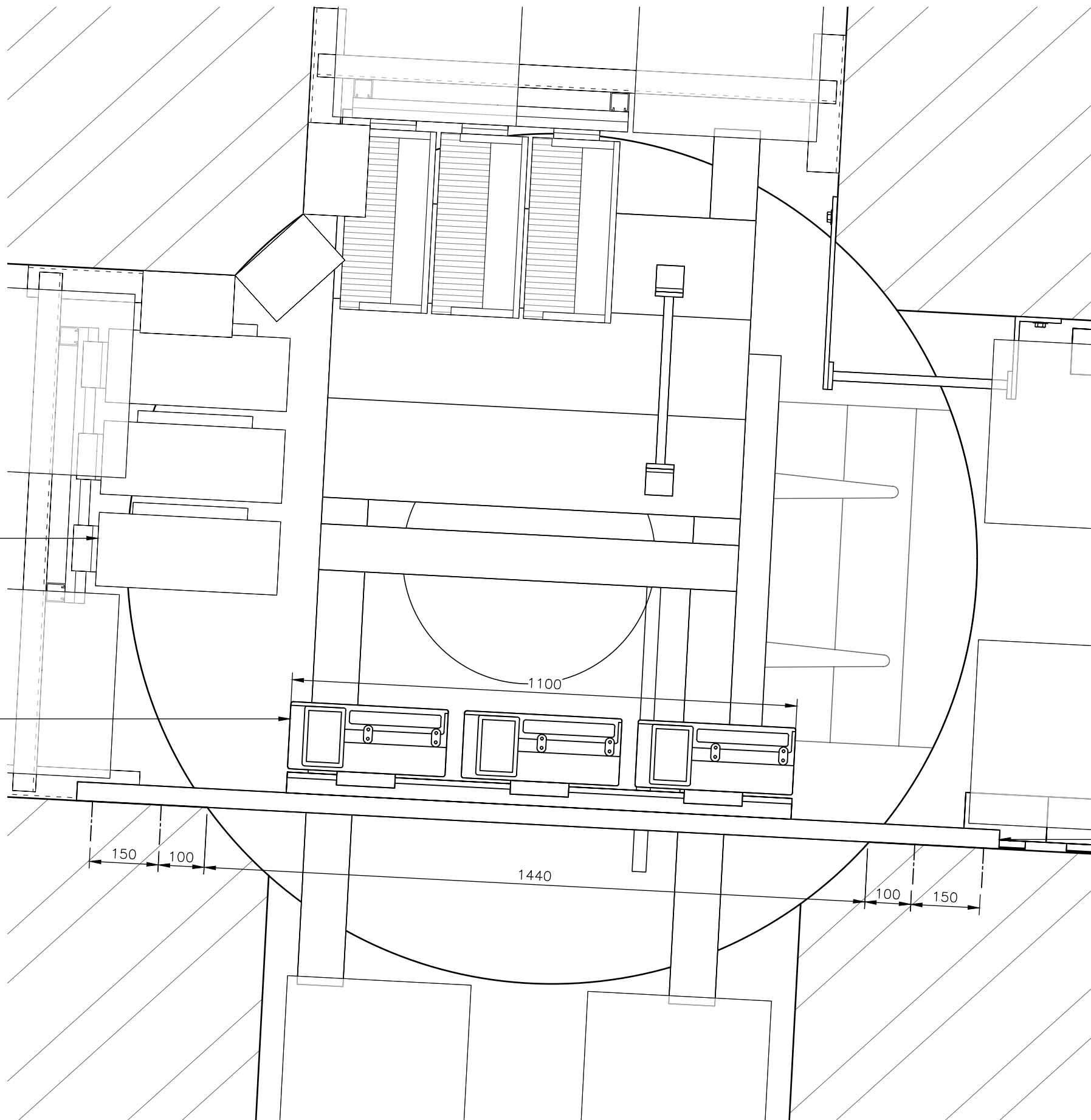
Drawing Title:
EXISTING ANTENNA SUPPORT DETAILS - BOTTOM FIXING

Purpose of issue:	CONSTRUCTION	Dwg Rev:
Drawing Number:	603	A

Surveyed By:	DR	Original Sheet Size:	A3	Pack Issue:
Drawn:	NP	Date:	30.06.23	Checked:
		Date:	30.06.23	B



NOTE: ERS TO BE
SIDE MOUNTED
NOT END MOUNTED

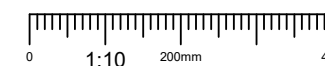


EXISTING TEF RRU'S

PROPOSED 3No. VF ERS (5G)
SIDE MOUNTED (NOT END
MOUNTED) ON 1No. 1100mm
LONG ERS RAIL MOUNTED ON
UNISTRUT FRAME FIXED TO WALL
ACROSS WINDOW OPENING

PROPOSED UNISTRUT FIXED TO
WALL USING HILTI HIT-HY270 +
2No. HIT-V (5.8) M12, HIT-SC
18x85 WITH MIN OF 80mm
EMBEDMENT

ERS (5G) SETTING OUT PLAN
(1:10)



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R E: 506975 N: 195331

NOTES:

B	BOB's Location Amended	NP	GD	06.09.23
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details
ALL SAINTS CHURCH
THE GREEN
CROXLEY GREEN
HERTFORDSHIRE
WD3 3HJ

Drawing Title:
ERS (5G) SETTING OUT PLAN

Purpose of issue:
CONSTRUCTION

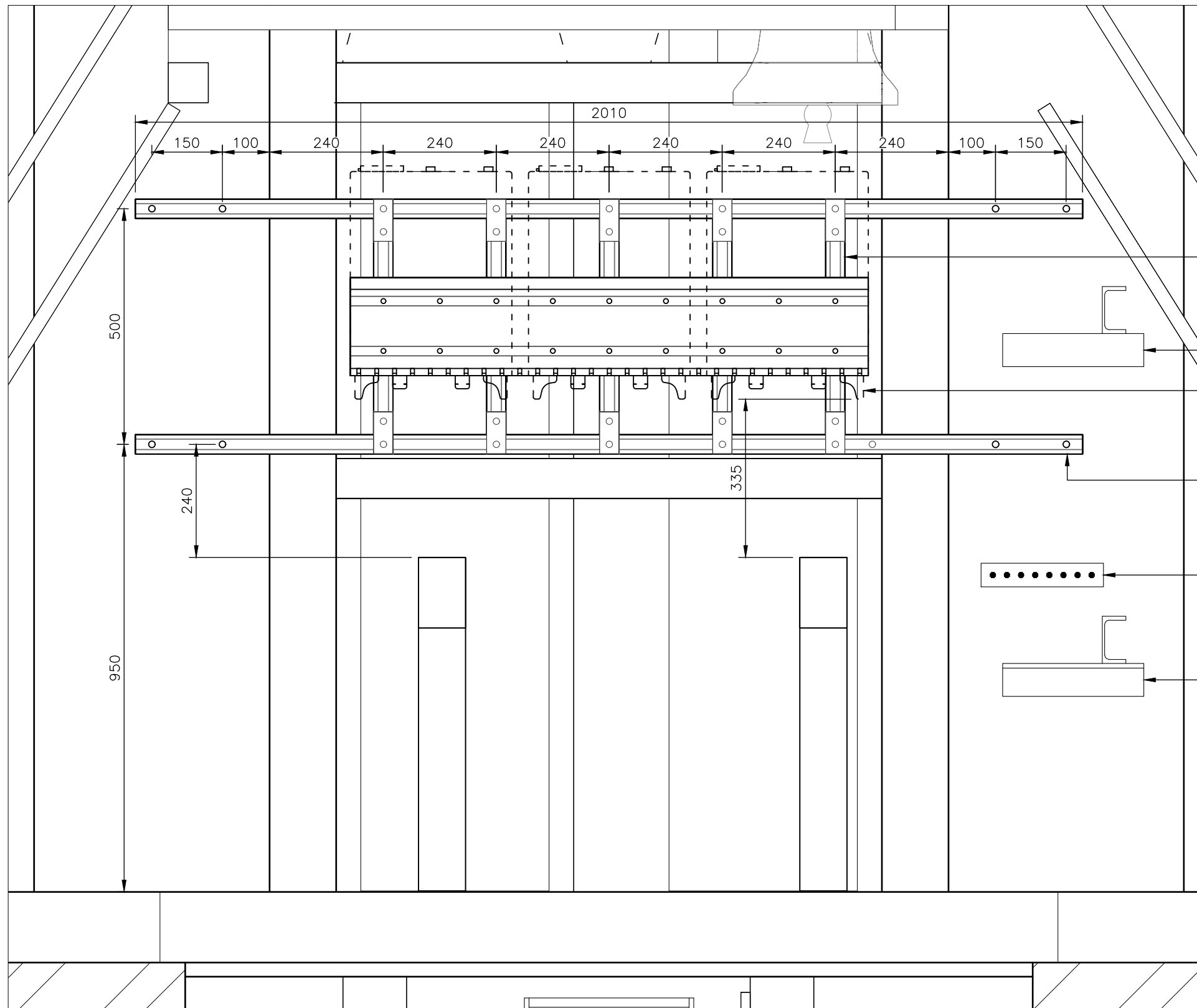
Drawing Number:
604

Surveyed By:
DR

Original Sheet Size:
A3

Drawn: NP Date: 30.06.23 Checked: GD Date: 30.06.23 Pack Issue: B

NOTE: ERS TO BE
SIDE MOUNTED
NOT END MOUNTED



PROPOSED VERTICAL UNISTRUT SECTIONS MOUNTED TO HORIZONTAL UNISTRUT USING P1065 FLAT FITTINGS, PNL12 CHANNEL BUTS AND M12 BOLTS WITH WASHERS

EXISTING TEF RRU SUPPORT

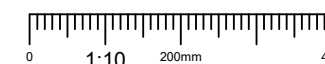
PROPOSED 3No. VF ERS (5G) SIDE MOUNTED (NOT END MOUNTED) ON 1No. 1100mm LONG ERS RAIL MOUNTED ON UNISTRUT FRAME FIXED TO WALL ACROSS WINDOW OPENING

PROPOSED 2No. HORIZONTAL UNISTRUT FIXED TO WALL USING HILTI HIT-HY270 + 2No. HIT-V (5.8) M12, HIT-SC 18x85 WITH MIN OF 80mm EMBEDMENT

EXISTING EARTH BAR

EXISTING TEF RRU SUPPORT

ERS (5G) SETTING OUT ELEVATION
(1:10)



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R E: 506975 N: 195331

NOTES:

B	BOB's Location Amended	NP	GD	06.09.23
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details
ALL SAINTS CHURCH
THE GREEN
CROXLEY GREEN
HERTFORDSHIRE
WD3 3HJ

Drawing Title:
ERS (5G) SETTING OUT ELEVATION

Purpose of issue:
CONSTRUCTION

Drawing Number:
605

Surveyed By:
DR

Original Sheet Size:
A3

Drawn: NP Date: 30.06.23 Checked: GD Date: 30.06.23

1.0 GENERAL

- 1.1. DO NOT SCALE DRAWINGS.
- 1.2. ALL DIMENSIONS IN MM UNLESS NOTED OTHERWISE.
- 1.3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING DIMENSIONS AND LEVELS ON SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR FABRICATION.
- 1.4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT THE PROJECT ON SITE.
- 1.5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY AND INTEGRITY OF EXISTING STRUCTURES AND GROUND PROFILES WITHIN AND ADJACENT TO THE WORKS, FROM THE DATE OF TAKING POSSESSION OF THE SITE UNTIL PRACTICAL COMPLETION OF THE WORKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL NECESSARY TEMPORARY WORKS TO COMPLY WITH THIS REQUIREMENT.
- 1.6. THE CONTRACTOR SHALL ENSURE THAT TOLERANCES ARE INTEGRATED AND CO-ORDINATED THROUGHOUT THE WORKS TO ENSURE THE EFFICIENT IMPLEMENTATION OF THE WORKS.
- 1.7. WHERE THE EXISTING WEATHERPROOF ENVELOPE IS PIERCED TO IMPLEMENT THE WORKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT INGRESS OF WATER DOES NOT OCCUR DURING THE CONSTRUCTION PERIOD.
- 1.9. DEVIATIONS BETWEEN SITE DIMENSIONS, LEVELS OR EXISTING DETAILS TO THOSE SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR COMMENT AND RESOLUTION.
- 1.10. PREPARATION, HANDLING AND APPLICATION OF THE PROPRIETARY PRODUCTS SHALL BE ALL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PRODUCT MANUFACTURER, HEALTH AND SAFETY LEGISLATION AND THE SPECIFICATIONS AND DETAILS OF THE ENGINEER. WHERE CONTRADICTIONS OCCUR BETWEEN THESE REQUIREMENTS, REFERENCE SHOULD BE MADE TO THE ENGINEER FOR RESOLUTION.
- 1.11. WHERE SPECIFIC PROPRIETARY PRODUCTS ARE REFERENCED AN EQUAL PRODUCT APPROVED BY THE ENGINEER MAY BE SUBSTITUTED, UNLESS NOTED OTHERWISE.

2.0. FASTENERS AND CONNECTIONS – STEEL TO STEEL

- 2.1. ALL BOLTS SHALL BE M16 GRADE 8.8 TO BS 4190 UNLESS NOTED OTHERWISE.
- 2.2. ALL BOLTS SHALL BE SPUN GALVANISED FINISH IN ACCORDANCE WITH BS 7371.
- 2.3. ALL BOLTS SHALL BE SIZED IN LENGTH TO GIVE A MINIMUM EXTENSION BEYOND THE NUT OF THREE THREADS.
- 2.4. WHERE CONNECTIONS ARE MADE USING DISSIMILAR MATERIALS, ALL CONNECTIONS SHALL BE PROVIDED WITH NEOPRENE, 'TOP-HAT' WASHERS, SPRING WASHERS OR OTHER APPROVED BARRIER BETWEEN CONNECTOR AND MAIN MATERIAL, TO MINIMISE THE RISK OF BI-METALLIC (ELECTROLYTIC) CORROSION.
- 2.5. WHERE APPROPRIATE, TAPER WASHERS SHALL BE USED IN BOLTED CONNECTIONS.
- 2.6. WHERE A CONNECTION IS SUBJECT TO VIBRATION OR CYCLIC LOADING USE SHALL BE MADE OF LOCKNUTS, LOCKWASHERS OR SPRING WASHERS OR OTHER APPROVED METHODS AT LOCATIONS INDICATED ON THE DRAWING BY THE ENGINEER TO MINIMISE THE RISK OF LOOSENING OF THE CONNECTORS.

3.0. FASTENERS AND CONNECTIONS – STEEL TO CONCRETE OR MASONRY

- 3.1. THE PREFERRED METHOD OF FIXING STRUCTURAL FIXINGS INTO SOLID CONCRETE OR MASONRY WALLS SHALL BE THROUGH-BOLT FIXINGS UNLESS SPECIFIED OTHERWISE. WHERE THE THROUGH-BOLT FIXINGS CANNOT BE ACHIEVED RESIN ANCHOR FIXINGS SHOULD BE UTILISED UPON CONSULTATION WITH ENGINEER.
- 3.2. ALL RESIN ANCHORS INTO SOLID CONCRETE SHALL BE HILTI HIT-HY200 RESIN INJECTION SYSTEM WITH HAS-R STAINLESS STEEL ANCHOR COMPONENTS, OR SIMILAR APPROVED, UNLESS NOTED OTHERWISE.
- 3.3. ALL RESIN ANCHORS INTO SOLID BRICKWORK OR OTHER SOLID MASONRY SHALL BE HILTI HIT-HY270 RESIN INJECTION SYSTEM WITH HAS-R STAINLESS STEEL ANCHOR COMPONENTS, OR SIMILAR APPROVED, UNLESS NOTED OTHERWISE.

3.4. MINIMUM EMBEDMENT DEPTHS OF ANCHORS SHALL BE AS FOLLOWS: (UNO)

MATERIAL	ANCHOR DIAMETER	MINIMUM EMBEDMENT DEPTH (mm)
SOLID BRICK OR STONE	M10	90
SOLID BRICK OR STONE	M12	110
SOLID CONCRETE	M10	90
SOLID CONCRETE	M12	110
SOLID CONCRETE	M16	125
SOLID CONCRETE	M20	170
EMBEDMENT LENGTHS ARE STATED IN THE HILTI TECHNICAL LITERATURE		

- 3.5. WHERE A CONNECTION IS MADE BETWEEN DISSIMILAR METALS, ALL CONNECTIONS SHALL BE PROVIDED WITH NEOPRENE, 'TOP-HAT' WASHERS/SPRING WASHERS OR OTHER APPROVED BARRIER BETWEEN CONNECTOR AND MAIN MATERIAL, TO MINIMISE THE RISK OF BI-METALLIC (ELECTROLYTIC) CORROSION.
- 3.6. WHERE APPROPRIATE, TAPER WASHERS SHALL BE USED IN BOLTED CONNECTIONS.
- 3.7. WHERE A CONNECTION IS SUBJECT TO VIBRATION OR CYCLIC LOADING USE SHALL BE MADE OF LOCKNUTS, LOCKWASHERS, SPRING WASHERS OR OTHER APPROVED METHODS, AS INDICATED ON THE DRAWING BY THE ENGINEER, TO MINIMISE THE RISK OF LOOSENING OF THE CONNECTORS.
- 3.8. ANCHORS SHALL BE TESTED IN ACCORDANCE WITH 'CONSTRUCTION FIXINGS ASSOCIATION GUIDANCE NOTE : PROCEDURE FOR TESTING CONSTRUCTION FIXINGS' AND 'BS 5080 : PART 1 – STRUCTURAL FIXINGS IN CONCRETE AND MASONRY' OR MANUFACTURERS RECOMMENDATIONS.
- 3.9. THE TESTING RATE OF ANCHORS SHALL BE 5 NO. FIXINGS OR 2.5% OF THE TOTAL NO. OF FIXINGS OF EACH SIZE AND TYPE, WHICHEVER GIVES THE GREATER NUMBER. FOR SITUATIONS WHERE THERE ARE LESS THAN 5 NO. ANCHORS OF ANY TYPE OR SIZE THEN ALL ANCHORS SHALL BE TESTED. WHERE THE PROJECT SPECIFICATIONS DEVIATE FROM THIS TESTING FREQUENCY, THE PROJECT SPECIFICATIONS SHALL TAKE PRIORITY.
- 3.10. THE ENGINEER SHALL BE ADVISED A MINIMUM OF 48 HOURS IN ADVANCE TO AFFORD THE OPPORTUNITY OF WITNESSING THE TEST.
- 3.11. ALL TESTS SHALL BE CARRIED OUT TO THE FOLLOWING TEST LOADS: (UNO)

MATERIAL	ANCHOR DIAMETER	TEST LOAD (kN)
SOLID BRICK OR STONE	M10	3.0
SOLID BRICK OR STONE	M12	3.5
SOLID CONCRETE	M10	6.3
SOLID CONCRETE	M12	9.5
SOLID CONCRETE	M16	12.1
SOLID CONCRETE	M20	20
TEST LOAD IS BASED ON $1.0 \times N_{rec} (f_{cc} = 33 \text{ Nmm}^2)$ FOR SOLID BRICKWORK AND $1.0 \times F_{REC} (f_{cc} = 30 \text{ Nmm}^2)$ OBTAINED FROM THE HILTI TECHNICAL LITERATURE		

- 3.12. ALL TESTS SHALL BE DOCUMENTED WITH LOCATION SKETCHES AND UNIQUE REFERENCES FOR EACH BOLT TESTED, IN SUCH A MANNER THAT EACH TEST LOCATION CAN BE IDENTIFIED ON SITE FROM THE DOCUMENTATION.
- 3.13. ALL NUTS, BOLTS AND STUDDINGS USED IN CONNECTIONS TO POROUS MATERIALS SHALL BE STAINLESS STEEL.
- 4.0. STEELWORK**
- 4.1. STRUCTURAL STEEL TO BE GRADE S275 MILD STEEL TO BS 4360
- 4.2. ALL WELDS TO BE MINIMUM 6mm FILLET WELD UNLESS NOTED OTHERWISE. WELDS AT TUBE TO TUBE CONNECTIONS TO BE FULL PENETRATION BUTT WELDS.
- 4.3. BOLTS TO BE GRADE 8.8 TO BS 4190, MINIMUM SIZE 16mm DIA U.N.O. BEARING SURFACES TO BE CLEAN GALVANISED.
- 4.4. ALL STEELWORK TO BE GALVANISED.
- 4.5. MINOR SITE ERECTION DAMAGE TO BE MADE GOOD WITH BRUSH APPLIED GALVAFROID.

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 | N: 195331

NOTES:

A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

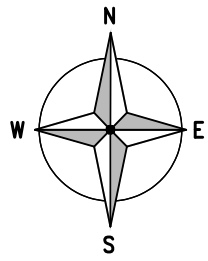
Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details
 ALL SAINTS CHURCH
 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

Drawing Title: NOTES – CIVLS

Purpose of issue:	CONSTRUCTION	Dwg Rev:
Drawing Number:	606	A

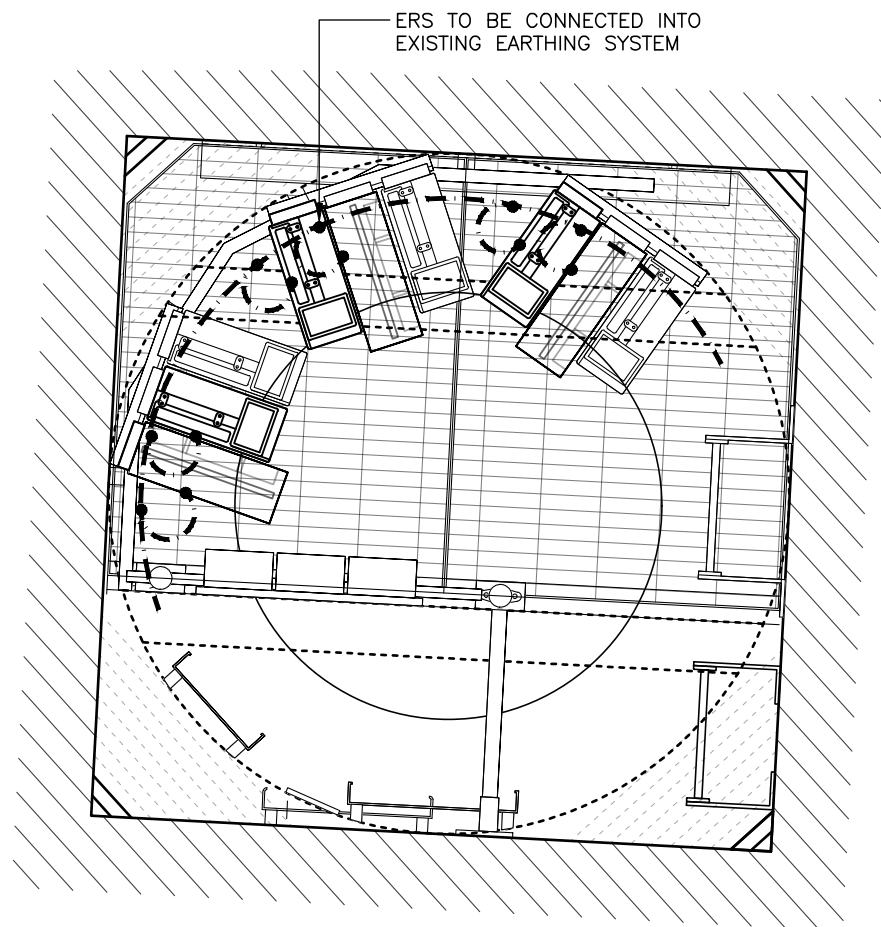
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Drawn:	NP	Date:	30.06.23	Checked:
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				30.06.23
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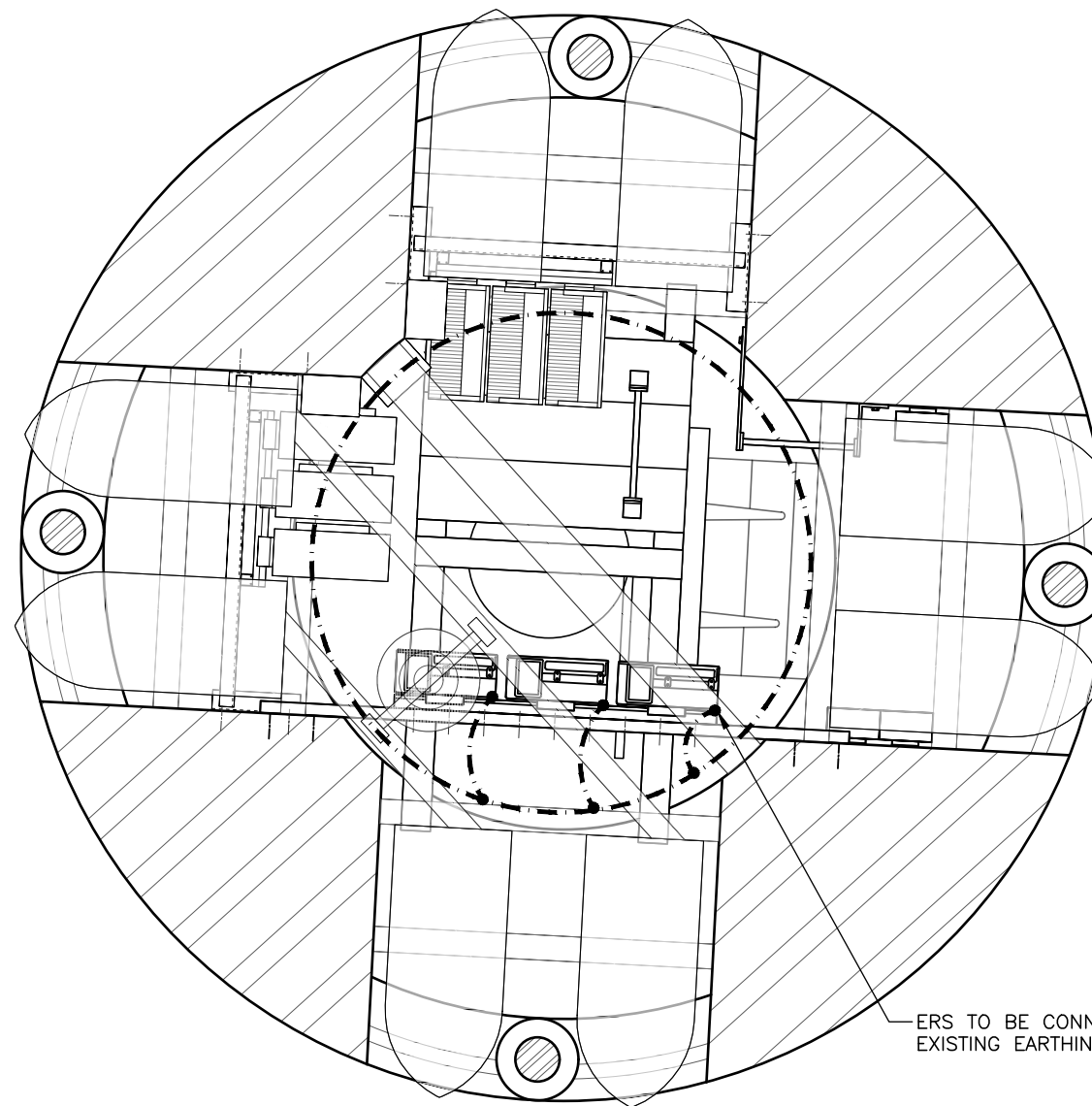
ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R | E: 506975 N: 195331

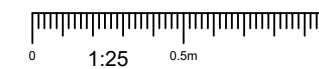
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PROPOSED ERS EARTHING PLAN
(1:20)



ANTENNA EARTHING PLAN
(1:25)



B	BOB's Location Amended	NP	GD	06.09.23
A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE



Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No	
CORNERSTONE	VF
E303525	VMO2
144306_24	11246_15
	36310

Site Address / Contact Details
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ

Drawing Title:	EARTHING PLANS
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Purpose of issue:	CONSTRUCTION	Dwg Rev:
		B

Drawing Number:	650	Pack Issue:
		B

Surveyed By:	Original Sheet Size:	Pack Issue:
DR	A3	B

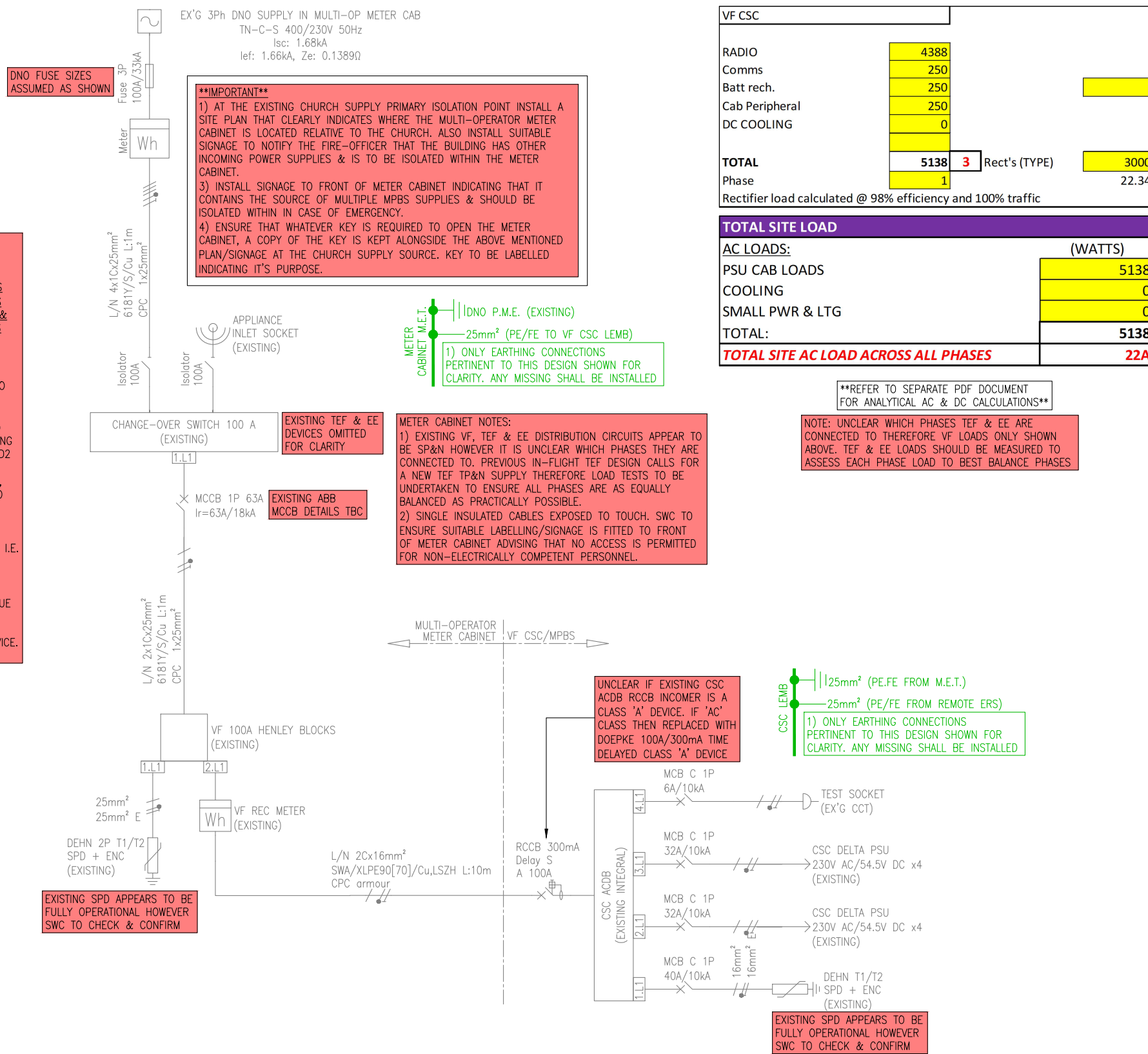
Drawn:	Date:	Checked:	Date:	
NP	30.06.23	GD	30.06.23	B

NOTES:

KEY	
 	CTIL EQUIPMENT / NEW INSTALLATIONS
 	VF ONLY EQUIPMENT / NEW INSTALLATIONS
 	TEF ONLY EQUIPMENT / NEW INSTALLATIONS
 	EXISTING / RETAINED INSTALLATIONS
 	VF & TEF SHARED / NEW INSTALLATION
 	EARTHING / L.P.
 	IMPORTANT NOTIFICATIONS

ELECTRICAL DESIGN DEPENDENCIES:
 (**THE BELOW FORM THE BASIS OF THIS ELECTRICAL DESIGN DUE TO UNKNOWN, IT HAS BEEN NECESSARY TO MAKE EDUCATED ASSUMPTIONS. THE BELOW ARE "NOT" CONFIRMATION STATEMENTS UNLESS SPECIFICALLY STATED AS 'CONFIRMED'. ALL UNKNOWN MUST BE VERIFIED/CONFIRMED PRIOR TO WORKS COMMENCING TO VALIDATE THIS DESIGN. SWC MUST CONFIRM ALL UNKNOWN & CHANGES AS IF FINDINGS DIFFER TO THAT SHOWN ON THIS DESIGN THEN THIS DESIGN MAY NEED TO BE AMENDED):

- 100A DNO FUSES.
- P.M.E. EARTHING SYSTEM.
- DETAILS OF EXISTING CABLES, IF & WHERE DETAILS ARE SHOWN, ARE TO BE VERIFIED. CABLE INFORMATION SHOWN HAS BEEN USED FOR CALCULATION PURPOSES BUT MUST BE CONFIRMED TO VALIDATE THIS DESIGN (TBC).
- IF NECESSARY, UNDERTAKE INTRUSIVE, C/W OUTAGE, INVESTIGATIONS, TO CONFIRM UNKNOWN & NOTED ASSUMPTIONS & TO ALSO CONFIRM THE EXISTING INSTALLATION & EARTHING SYSTEM IS COMPLIANT WITH WITH BS77671:2018:AMD2 TO COMPLY WITH REG 132.16.
- THIS DESIGN EXCLUDES THE DESIGN OF LIGHTING, EMERGENCY LIGHTING, FIRE ALARM & LPS SYSTEMS. SUITABLE SPECIALISTS SHOULD BE EMPLOYED TO ENSURE COMPLAINT DESIGNS FOR THESE ELEMENTS OF THE INSTALLATION IF OTHERS DEEM THESE SERVICES AS NECESSARY.
- **MULTIPLE SUPPLIES PRESENT**** ALL MPBS & NON-MPBS EXPOSED & EXTRANEOUS CONDUCTIVE PARTS, WHERE WITHIN 2.5M OF EACH OTHER OTHER I.E. SIMULTANEOUSLY TOUCHABLE, MUST BE TESTED TO ENSURE THERE IS NO PRESENCE OF TOUCH VOLTAGES >50V.
- WHERE NEW RCD/RCCB/RBOS ARE SHOWN, THESE MUST BE MINIMUM CLASS 'A' SO AS TO REDUCE ISSUES RELATING TO MASKING OF AC FAULTS DUE TO DC SATURATION OF THE DEVICE. THIS DESIGN ASSUMES THE TOTAL WORST CASE DC CURRENT LEVELS PRESENT WITHIN THE PASSIVE SYSTEM WILL BE SUFFICIENTLY LOW ENOUGH NOT TO PREVENT NORMAL OPERATION OF THE DEVICE. DC LEAKAGE DATA TO BE SUBMITTED BY RADIO MANUFACTURER.



VF CSC	
RADIO	4388
Comms	250
Batt rech.	250
Cab Peripheral	250
DC COOLING	0
TOTAL	5138
Phase	1
Rectifier load calculated @ 98% efficiency and 100% traffic	22.34

TOTAL SITE LOAD (WATTS)	
AC LOADS:	
PSU CAB LOADS	5138
COOLING	0
SMALL PWR & LTG	0
TOTAL:	5138
TOTAL SITE AC LOAD ACROSS ALL PHASES	22A

REFER TO SEPARATE PDF DOCUMENT FOR ANALYTICAL AC & DC CALCULATIONS

NOTE: UNCLEAR WHICH PHASES TEF & EE ARE CONNECTED TO THEREFORE VF LOADS ONLY SHOWN ABOVE. TEF & EE LOADS SHOULD BE MEASURED TO ASSESS EACH PHASE LOAD TO BEST BALANCE PHASES

AC ELECTRICAL SCHEMATIC

REV	MODIFICATION	BY	CH	DATE
B	Schematic Updated	NP	GD	06.09.23
A	Issued for Construction	NP	GD	30.06.23



Cell Name		Opt.
ALL SAINTS CHURCH		-
Cell ID No		
CORNERSTONE	VF	VMO2
E303525	11246_15	36310

Site Address / Contact Details
 ALL SAINTS CHURCH
 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

Drawing Title:		AC ELECTRICAL SCHEMATIC	
Purpose of issue:		CONSTRUCTION	
Drawing Number:		651	
Surveyed By:		Original Sheet Size:	
DR		A3	
Drawn:		Checked:	
NP		GD	
Date:		Date:	
30.06.23		30.06.23	
Pack Issue:		B	

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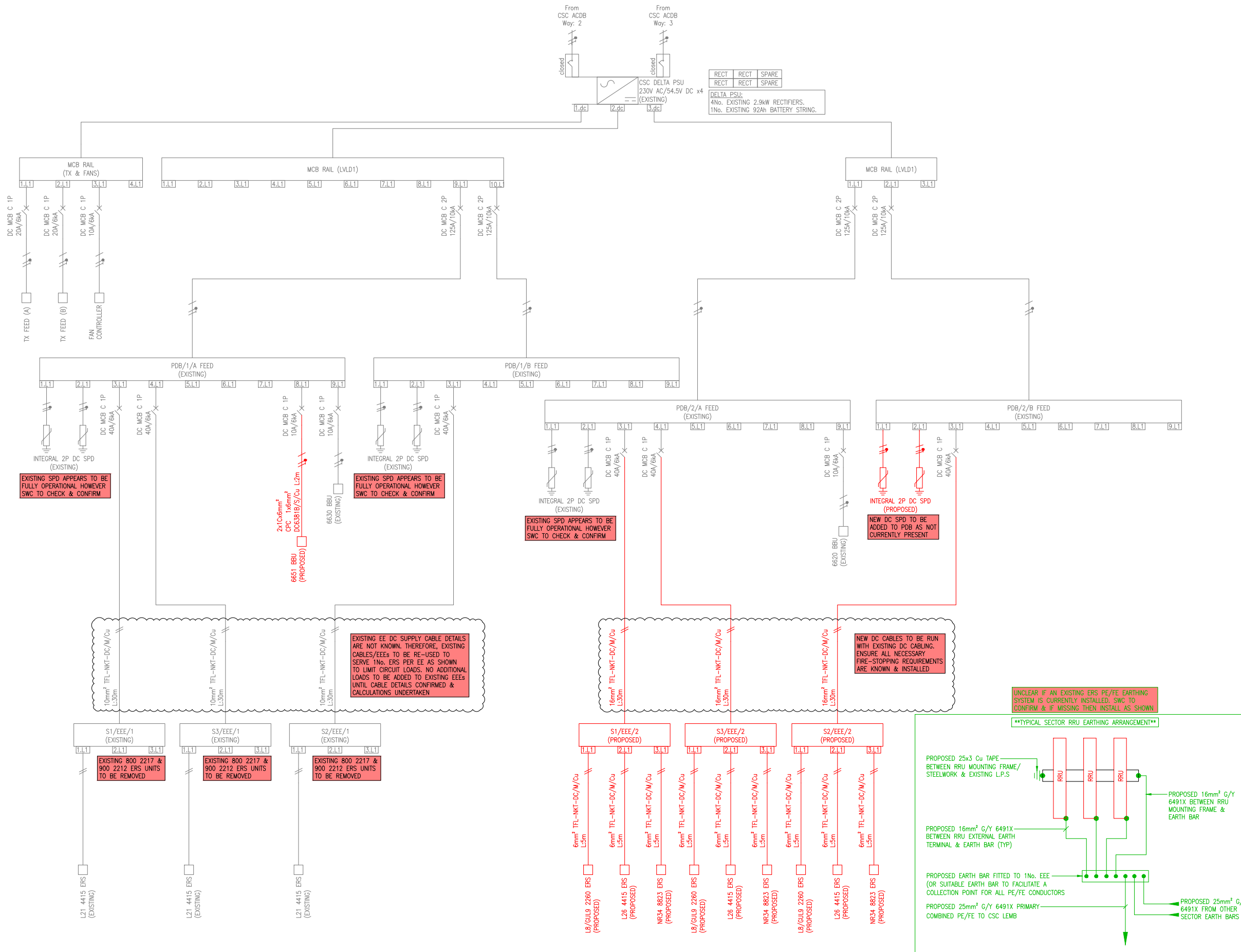
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B	Schematic Updated	NP	GD	06.09.23
A	Issued for Construction	NP	GD	30.06.23



Cell Name		Opt.
ALL SAINTS CHURCH		-
Cell ID No		
CORNERSTONE	VF	VMO2
E303525	11246_15	36310

Site Address / Contact Details
 ALL SAINTS CHURCH
 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

Drawing Title: DC ELECTRICAL SCHEMATIC		Dwg Rev:
Purpose of issue: CONSTRUCTION		B
Drawing Number: 652		B
Surveyed By: DR	Original Sheet Size: A3	Pack Issue:
Drawn: NP	Date: 30.06.23	Checked: GD
	Date: 30.06.23	B



DC ELECTRICAL SCHEMATIC

ELECTRICAL, LIGHTNING PROTECTION AND EARTHING NOTES

1. ELECTRICAL WORKS SHALL BE CARRIED OUT IN KEEPING WITH BS 7671.
2. THE LIGHTNING PROTECTION INSTALLATION SHALL BE SUPPLIED, INSTALLED, TESTED, COMMISSIONED AND SET TO WORK IN KEEPING WITH BS EN 62305. WORKS SHALL ENCOMPASS BEST WORKING PRACTICES BY SUITABLY EXPERIENCED AND QUALIFIED PERSONNEL.
3. EARTHING AND BONDING WORKS SHALL COMPLY WITH BS 7430.
4. ALL MATERIAL'S SHALL BE THE PROPRIETARY TYPE AS DEFINED IN THE PROJECT SPECIFICATION AND/ OR CONSTRUCTION DRAWINGS.
5. CONNECTION OF EXISTING OR INSITU EQUIPMENT, NORMALLY NOT ASSOCIATED WITH THE INSTALLATION SHALL BE KEPT TO A MINIMUM. THIS DOES NOT INCLUDE EXISTING SERVICES THAT MAY AFFECT THE INTEGRITY OF THE EQUIPMENT UNDER FAULT CONDITIONS.
6. THE COMPOSITE LIGHTNING PROTECTION SYSTEM SHALL ACHIEVE A RESISTIVITY VALUE < 10 OHMS. THIS VALUE SHALL BE RECORDED IN ISOLATION TO ANY EXTERNAL INFLUENCES.
7. WHERE AN EXISTING OR PART EXISTING LIGHTNING PROTECTION SYSTEM IS ADOPTED FOR PURPOSES, THE SPECIALIST CONTRACTOR SHALL VERIFY IN ADVANCE IT'S SUITABILITY. VERIFICATION SHALL BE ACHIEVED BY A COMBINATION OF EXISTING TEST CERTIFICATION, VALID TO WITHIN 1 YEAR AND VISUAL INSPECTION. WHERE EXISTING TEST CERTIFICATION IS NOT AVAILABLE OR HAS EXCEEDED THE DUE EXPIRY DATE THEN THE SPECIALIST CONTRACTOR SHALL ARRANGE TO INSPECT AND RE-TEST THE SYSTEM IN LINE WITH BS EN 62305.
8. EXISTING LIGHTNING PROTECTION SYSTEMS SHALL ONLY BE UPGRADED ON FORMAL APPROVAL FROM THE NET CONSULTANT DESIGN ENGINEER. DISCONNECTION OR MODIFICATION OF ANY EXISTING LIGHTNING PROTECTION SYSTEM, INCLUDING DISCONNECTION FOR TEST PURPOSES, SHALL BE UNDERTAKEN WITH THE WRITTEN APPROVAL OF THE SITE PROVIDER AND THE DESIGN ENGINEER.
9. THE FOLLOWING SERVICES SHALL BE INTERCONNECTED DIRECTLY WITH THE LIGHTNING PROTECTION SYSTEM WHERE APPLICABLE.
 - *SUPPLY EARTH (POINT OF CLOSEST PROXIMITY).
 - *EXISTING FACILITY SUPPLY EARTH.
 - *EXISTING LIGHTNING PROTECTION SYSTEM.
 - *EXTRANEIOUS STEEL WORK INCLUDING ASSOCIATED CONTAINMENT AND GRILLAGES (ALSO SEE NOTE 5).
 - *OTHER FACILITY EARTH BARS.
 - *SERVICE PROVIDER EARTH BARS.
 - *CONDUCTIVE FENCES, GATES & HANDRAILS.
 - *ANTENNA SUPPORT'S
 - *FEEDER EARTH'S
 SURFACE FIXED LIGHTNING PROTECTION TAPES SHALL BE THE AL 25X3MM INSULATED TYPE UNLESS SPECIFIED DIFFERENTLY ON THE CONSTRUCTION DRAWINGS.
10. WHERE IN CONTACT WITH OTHER DISSIMILAR METALS SUCH AS CU ELECTRODES OR FERROUS SUPPORTS THEN BI-METALLIC CONNECTORS SHALL BE USED. WHERE THE USE OF BI-METALLIC CONNECTORS IS NOT POSSIBLE, AL TAPES WILL BE DULY TREATED TO NEGATE DETERIORATION. WHERE PASTE OR OTHER SIMILAR COMPOUNDS ARE USED THAT WILL REQUIRE ROUTINE MAINTENANCE THEN CONTRACTOR SHALL INDICATE THOSE AREA'S ON THE AS-BUILT DRAWINGS.
11. TAPES BELOW GROUND LEVEL SHALL BE THE BARE CU TYPE 25X3MM. WHERE BURIED WITHIN PEDESTRIAN AREA'S, CU SERVICES SHALL BE LOCATED A MINIMUM 1 METRE BELOW FINISHED GROUND LEVEL AND INSULATED UP TO FINISHED GROUND LEVEL. WITHIN OTHER AREA'S TAPE CONDUCTORS SHALL BE LOCATED 600MM BELOW FINISHED GROUND LEVEL.
12. ALL RING CONDUCTORS SHALL BE COMPLETE WITH A CONTINUOUS LINE OF MARKER TAPE LOCATED 300MM BELOW FINISHED GROUND LEVEL. WHERE INSTALLED ELECTRODES SHALL BE COMPLETE WITH A FLUSH FITTING CONCRETE INSPECTION CHAMBER AND BE READILY ACCESSIBLE FOR TESTING PURPOSES.
13. ALL INSPECTION CHAMBERS SHALL BE COMPLETE WITH TEST LINK FACILITY AND IDENTIFIED IN LINE WITH THE PROJECT SPECIFICATION/DRAWINGS.
14. LIGHTNING PROTECTION SYSTEMS SHALL BE IN PLACE AND FULLY FUNCTIONAL PRIOR TO THE ERECTION OF ANY MASTS, TOWERS, ANTENNAS OR OTHER SUCH EQUIPMENT THAT MAY INCREASE THE LIKELIHOOD OF A LIGHTNING STRIKE TO THE HOST OR ADJACENT STRUCTURES.
15. SOIL PREPARATION AGENTS SHALL NOT BE USED.
16. WHERE LIGHTNING PROTECTION TAPES CONNECT TO OTHER SERVICES, CONNECTION SHALL BE ACHIEVED VIA A PROPRIETARY BOLTED CONNECTION SUITABLE FOR THE PURPOSE INTENDED. THIS SHALL INCLUDE FLEXIBLE OR BRAIDED CONNECTIONS WHERE THE CONNECTION MAY BE SUBJECT TO MECHANICAL STRESS. LIGHTNING PROTECTION TAPES SHALL NOT BE DRILLED OUT OR PENETRATED TO ACHIEVE CONNECTION. ALL TERMINATION'S SHALL BE SUITABLY PROTECTED TO NEGATE DETERIORATION.
17. SURFACE FIXED TAPES SHALL BE SECURED AT 600MM CENTRES VIA PROPRIETARY PVC INSULATED CLIPS. CLIPS SHALL GENERALLY BE THE SELF-ADHESIVE TYPE SO AS TO AVOID PENETRATING THE BUILDING FABRIC. SCREW/CAVITY FIXINGS SHALL ONLY BE CONSIDERED WHERE THE SELF-ADHESIVE TYPE ARE UNSUITABLE AND THEIR USE WILL NOT DAMAGE THE BUILDING FABRIC.
18. ALL LIGHTNING PROTECTION EQUIPMENT SHALL BE DULY IDENTIFIED AND SIGNAGE POSTED IN KEEPING WITH BS EN 62305. DETAILED WORDING AS PER THE PROJECT SPECIFICATION.
19. WHERE THE SOURCE OF SUPPLY IS LOCATED EXTERNAL TO AN EXISTING BUILDING, A BONDING CONDUCTOR SHALL BE INSTALLED BETWEEN THE NEW AND EXISTING SUPPLY EARTH TERMINALS. THIS CONDUCTOR SHALL BE A MINIMUM A 16MM XLPE/PVC GREEN/YELLOW CU CABLE. PROTECTION AS REQUIRED. CLEARLY DESIGNATED "SUPPLEMENTARY EARTH DO NOT REMOVE" (WHERE THE NATURE OF THE SUPPLIES DIFFER, THE CONTRACTOR SHALL ADVISE THE NET CONSULTANTS DESIGN ENGINEER).
20. ALL CONDUCTIVE PARTS LOCATED WITHIN THE EQUIPOTENTIAL ZONE SHALL BE CROSS-BONDED AND TIED TO EARTH. THIS SHALL INCLUDE NON EQUIPMENT THAT MAY EFFECT THE EQUIPMENT OR PERSONNEL UNDER FAULT CONDITIONS,
21. CONTINUOUS CONTAINMENT SYSTEM RUNS SHALL BE BONDED DIRECTLY TO THE LIGHTNING PROTECTION SYSTEM AT A MAXIMUM 20 METRE INTERVAL. WHERE BONDED DIRECTLY TO THE LIGHTNING PROTECTION SYSTEM BOND'S SHALL BE 25X3MM CU. TAPE OR BRAID AS REQUIRED. PARALLEL OR DISSIMILAR TRAY RUNS SHALL BE CROSS-BONDED, AS SHOULD CONDUCTIVE FENCES AND GATES. 25X3MM CU. TAPE OR BRAID AS REQUIRED.
22. CABLES SHALL BE SUPPLIED IN ACCORDANCE WITH FOLLOWING :
 - A) EARTH CABLES SHALL BE SINGLE CORE REF. 6491X TO BS 6004.
 - B) SWA TYPE CABLES 3 OR 5 CORE REF. 6943X TO BS 5467.
 - C) MIC ALARM CABLE 2 PAIR 1/0.50MM CEL-PE/PJF/PE/SWA/PE BLACK TO CS1128/1198 (EG BATT CABLES P/N 42125).
 - D) PCM CABLES SHALL BE SWA RG59 FOR EXTERNAL USE, COMPLETE WITH IP66 GLAND CW205/16. INTERNAL USE BS20S.
23. CABLES SHALL BE IDENTIFIED IN KEEPING WITH THE PROJECT SPECIFICATION.
24. WHERE BURIED ELECTRICAL CABLES SHALL BE INSTALLED IN KEEPING WITH THE CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATION. PRIOR TO THE OPENING OF ANY TRENCHES THE CONTRACTOR SHALL DEMONSTRATE THAT THE AREA TO BE EXCAVATED IS FREE FROM OTHER SERVICES AND ALL NECESSARY SAFEGUARDS HAVE BEEN PUT IN PLACE TO NEGATE RISK TO SITE PERSONNEL, BUILDING FABRIC, MEMBERS OF THE PUBLIC AND SITE PROVIDER EMPLOYEE'S.
25. EXCAVATION AND ELECTRICAL ISOLATIONS SHALL BE DONE WITH THE FULL CONSENT OF THE SITE PROVIDER AND UNDER COVER OF A PERMIT TO WORK SYSTEM. CONTAINMENT SYSTEMS SHALL BE THE PROPRIETARY TYPE AS DETAILED ON THE CONSTRUCTION DRAWINGS I.E. ROOFPRO OR APPROVED. CONTAINMENT SYSTEMS SHALL BE COMPLETE PRIOR TO CABLE INSTALLATION.
25. BENDS OFFSETS AND OTHER ACCESSORIES SHALL BE THE PROPRIETARY TYPE. SITE FABRICATED INSTALLATIONS IN LIEU OF MANUFACTURERS EQUIPMENT SHALL BE AVOIDED WHERE PRACTICALLY POSSIBLE.
26. CABLES INCLUDING COMMUNICATIONS, POWER AND FIRE ALARM SHALL BE SEGREGATED IN KEEPING WITH THE PROJECT SPECIFICATION.
27. WHERE THE HOST BUILDING IS COMPLETE WITH A FIRE ALARM SYSTEM, THAT SYSTEM SHALL BE EXTENDED AND/ OR MODIFIED TO PROVIDE AUDIBLE INDICATION OF FIRE ALARM ACTIVATION AND CALL POINT FACILITY. WHERE PRACTICAL DB LEVELS SHALL BE 65 OR 5 DB ABOVE PREVAILING BACKGROUND NOISE. ASSOCIATED CABLES SHALL BE THE MICC TYPE 1.5MM 2 CORE WITH RED XLPE OUTER SHEATH. CLIPS SHALL BE PROPRIETARY CU INSULATED TYPE FIXED DIRECTLY TO BUILDING FABRIC AND/ OR DEDICATED CONTAINMENT. FIRE ALARM WORKS SHALL BE RESTRICTED TO THE INSTALLATION BUT ARE DEEMED TO INCLUDE MODIFICATION AS REQUIRED TO THE EXISTING FIRE ALARMS SYSTEM E-PROM AND/ OR MIMIC DRIVER. FIRE ALARM WORKS SHALL ONLY BE UNDER TAKEN ON APPROVAL FROM THE BUILDING OFFICER OR HIS NOMINATED SPECIALIST CONTRACTOR.
28. EXTERNAL LIGHTING SHALL BE PROVIDED TO THE CABIN VIA THE AGREED ACCESS ROUTE ONLY. FITTINGS SHALL BE THE "MAINTAINED" DUAL FUNCTIONAL/EMERGENCY 28WATT TYPE WITH 3 HOUR STANDBY BATTERY CAPACITY. SWITCHING SHALL BE ACHIEVED VIA 2 WAY SWITCHES, POSITIONED IN SUCH A WAY AS TO FACILITATE SAFE OPERATION FROM THE CABIN AND THE NOMINATED ENTRY/EXIT POINT.
29. DISTRIBUTION BOARDS, FUSE SWITCHES AND SUNDRIES SHALL BE SUPPLIED IN ACCORDANCE WITH THE FOLLOWING (SEE SDN5001):
 - A) 100AMP SWITCH DISCONNECTOR SHALL BE TO BS EN 60947-3.
 - B) MCB'S TO BS EN 60898.
 - C) RCD'S TO BS EN 61009.
 - D) SPD'S THAT ARE INSTALLED IN TO DISTRIBUTION BOARDS OR OTHER EQUIPMENT CERTIFIED AGAINST BS EN 61439.
 - E) DISTRIBUTION BOARDS - CABIN & IN BUILDING BS EN 61439 & BS 7671. ANY NEW OR REPLACEMENT DB WILL BE SCHNEIDER ELECTRIC ACTI 9 SIZED TO SUIT THE REPLACEMENTS OF THE INSTALLATIONS. THE ACTI 9 IS SUITABLE OF AC AND DC USE. DISTRIBUTION BOARDS WILL BE SIZED APPROPRIATELY FOR THEIR REQUIREMENT. TYPICAL PART NUMBERS ARE :
 - SEA9AN14. TYPE A. SINGLE PHASE DIS BOARD. UNPOPULATED. 14 SP WAYS, 7DP WAYS.
 - SEA9BN8. TYPE B. THREE PHASE DIS BOARD. UNPOPULATED. 8 TP WAYS, 12 DP, 24SP WAYS
 - F) SWITCH FUSES 32AMP SP&N AND TP&N TO BS EN 60947-3 (MEM 30KXSC2F OR EQUIVALENT)
SWITCH FUSES 63AMP SP&N AND TP&N TO BS EN 60947-3 (MEM 63GNC OR EQUIVALENT)
SWITCH FUSES 100AMP SP&N AND TP&N TO BS EN 60947-3 (MEM 103GNC OR EQUIVALENT).
 - G) PLUGS AND SOCKETS 16AMP IP44 ANGLED IN ACCORDANCE WITH BS EN 60309-2 (MK COMMANDO 9201 BLU)
PLUGS AND SOCKETS 16AMP IP44 STRAIGHT IN ACCORDANCE WITH BS EN 60309-2 (MK COMMANDO 9201 BLU)
PLUGS AND SOCKETS 16AMP IP67 SWITCH OUTLET IN ACCORDANCE WITH BS EN 60309-2 (HUBEL BK 1663)
RCD 13AMP 30MA TWIN SWITCH SOCKET SHALL BE SUPPLIED TO BS 7288 METAL CLAD (VOLEX VT9208 SG).
30. ACCESSORIES SHALL BE SUPPLIED IN ACCORDANCE WITH THE FOLLOWING :
 - A) WARNING LABELS SHALL BE SUPPLIED TO BS EN ISO 7010:2012 + A7 2017.
 - B) SINGLE PVC BACK BOX FOR ALARM CONNECTIONS SHALL BE SUPPLIED TO BS 5733.
 - C) SINGLE BLANK PLATE ENGRAVED ALARM CONTACTS FOR BACK BOX SHALL BE SUPPLIED TO BS 5733.
 - D) AMP CONNECTOR STRIP SHALL BE SUPPLIED TO BS 5733.

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N.G.R | E: 506975 N: 195331

NOTES:

A	Issued for Construction	NP	GD	30.06.23
REV	MODIFICATION	BY	CH	DATE

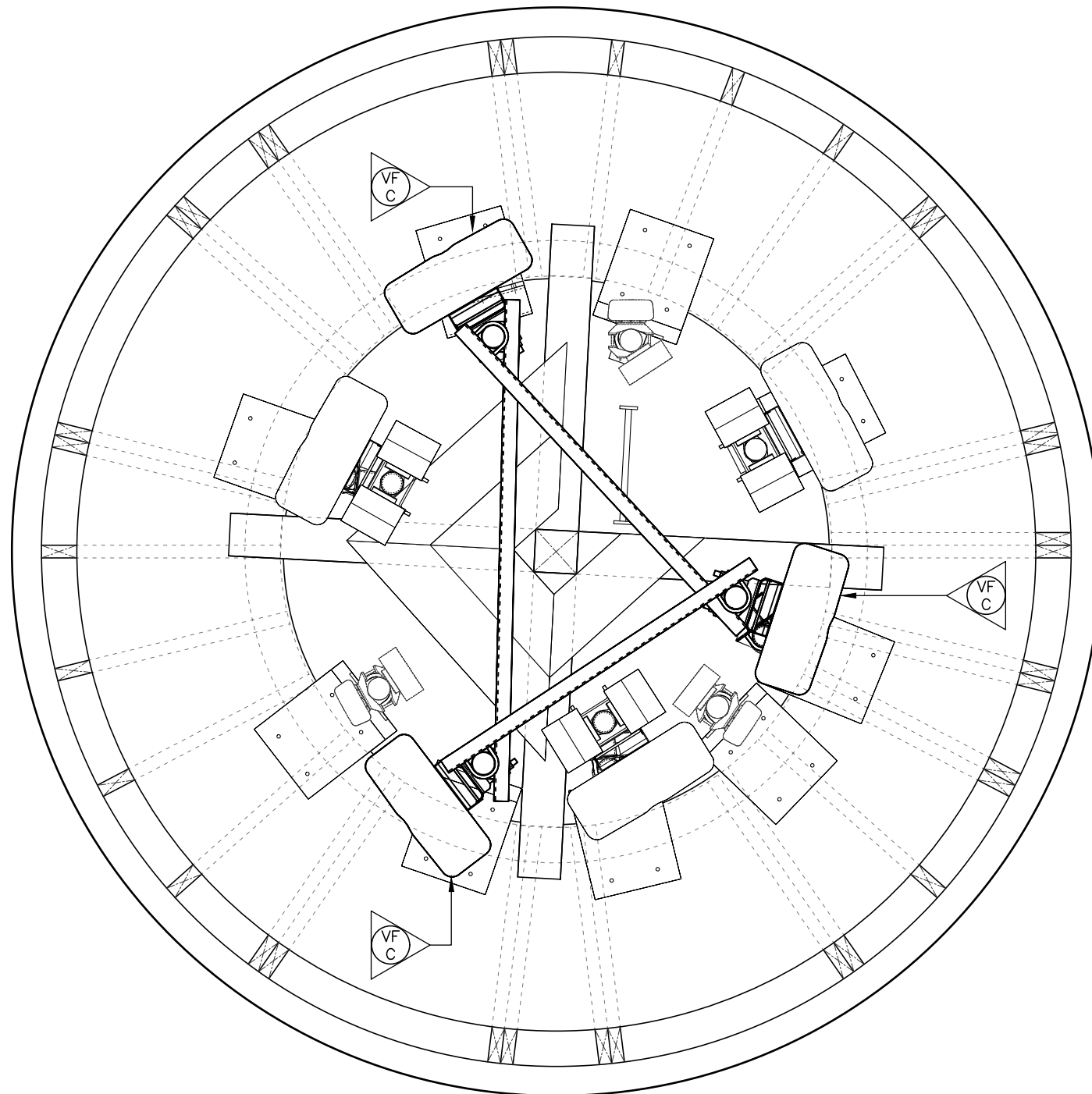
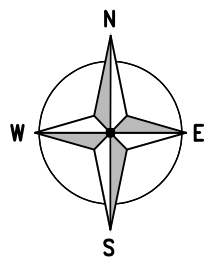


Cell Name	Opt.
ALL SAINTS CHURCH	-

Cell ID No		
CORNERSTONE	VF	VMO2
E303525		
144306_24	11246_15	36310

Site Address / Contact Details		
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3JH		

Drawing Title: NOTES - ELECTRICAL				
Purpose of issue: CONSTRUCTION				Dwg Rev:
Drawing Number: 653				A
Surveyed By: DR	Original Sheet Size: A3		Pack Issue:	
Drawn: NP	Date: 30.06.23	Checked: GD	Date: 30.06.23	B



ANTENNA SIGNAGE PLAN
(1:20)



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NOTES:

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 THE GREEN
 CROXLEY GREEN
 HERTFORDSHIRE
 WD3 3HJ

Drawing Title:
ANTENNA SIGNAGE PLAN

Purpose of issue:	Dwg Rev:
CONSTRUCTION	A

Drawing Number:	Pack Issue:
700	B

Surveyed By:	Original Sheet Size:	Pack Issue:
DR	A3	B
Drawn:	Date:	Checked:
NP	30.06.23	GD
		Date:
		30.06.23

SHARED ANTENNA RF SIGNAGE DETAIL			
Ref. Letter	Type/Symbol	Remarks	Location
A		Danger of radio transmitters operating and that all further signage is to be obeyed This sign is required on all sites as a MINIMUM STANDARD (VPN 305-428 & 305-435)	Sign A is the site entry sign. It is placed at the entry(s) points of the site. On a rooftop site placed at access door(s) to the rooftop. Two parts to sign upper part warns of presence of transmitter, lower parts operator contact details
B1		Danger of radio frequencies present. To be deployed alongside and in addition to the standard sign B on shared antenna sites	Fitted in areas where access is controlled, but may exceed occupational exposure guidelines. e.g demarked areas of rooftops At entry points for fixed ladders or other climbable structure that give access to areas where antennas are fitted and would be readily accessible once the structure was climbed. e.g at the base of lattice towers
C1		Danger of antennas operating close by To be deployed alongside and in addition to the standard sign C on shared antenna sites	Fitted all sides of directional antennas (where they can be approached either directly, or indirectly through use of access equipment such as cradles) on the base of omni-directional antennas on GRP panels used to disguise antennas such as false chimneys
E		For Multi Operator Remote Radio Heads (RRH). To have the logo of the lead operator only (e.g Vodafone)	To be placed on the Remote Unit
F		This is a new sign and with the purpose to alert personnel under operator control that the antenna combiner system has multiple inputs including multiple CSR's.	It is envisaged that this would be placed on the entry point to a cabin or cabinet door. This Sign is not a replacement for sign B
For further details of site specific RF signage requirements, please consult CTIL document 'RF Site Signage on Telefonica UK & Vodafone Sites' by Paul Cowap. Ref: SDN0002 Issue 1_1 (28.11.2012)			

VODAFONE RF SIGNAGE DETAIL			
Ref. Letter	Type/Symbol	Remarks	Location
B		Danger of radio frequencies present. This sign is required on ALL Sites as a MINIMUM STANDARD (VPN 800-333)	Fitted in areas where access is controlled, but may exceed occupational exposure guidelines. e.g demarked areas of rooftops At entry points for fixed ladders or other climbable structure that give access to areas where antennas are fitted and would be readily accessible once the structure was climbed. e.g at the base of lattice towers
C		Danger of radio Antennas close by This sign is required on ALL Sites as a MINIMUM STANDARD (VPN 800-334)	Fitted all sides of directional antennas (where they can be approached either directly, or indirectly through use of access equipment such as cradles) on the base of omni-directional antennas on GRP panels used to disguise antennas such as false chimneys
D		Owner Label	Contact strip fits under main part of the sign A. Its purpose is to advise the operators's site Ref No. and also contact details.
G		Owner and emergency Label for Vodafone Equipment within the cabinet, it indicates the emergency contact No. Vodafone DWG Ref 1507DT04LTP	It is placed on the side of a streetworks cabinet (top edge 100mm down from the top of the cabinet, and side edge 100mm in from the side). Refer to SDN0002 pg 17/18)

SIGNAGE SCOPE OF WORKS ON BEACON CONSOLIDATED SITE:

Signs A & D

For a Site under Beacon consolidation the Sign A will normally have been fitted already. Thus it should only be necessary to remove the Sign D of the relevant operator if it not already present

Sign B

On a site where a Sign B has been installed it will be necessary to remove the Sign 'B' of the redundant operator and fit the Sign B of the relevant operator if its not already present

Sign C

The Sign C this should be replaced where it is safe to do so. This will normally be during any re-rigging or antenna swap activity

Shared Antenna Sign B1

On Beacon Consolidated outside London sites where this has been fitted it should be removed and replaced with the Sign 'B' of the relevant operator

Shared Antenna Sign C1

This sign will generally not be in an easily of safety accessible area and then it will not be necessary to change it. If However there is re-rigging or antenna swap as part of the Beacon Consolidation activity then it can be replaced with the Sign C of the relevant operator

Sign F

Where this sign has been fitted after the site has been fully consolidated under Beacon the sign can be removed.

Street Works Signs

The operator site identification Sign G or H will need to be changed in ownership of the radio base station equipment. Thus in case of a Vodafone equipment cabinet in the east which is taken over Telefonica the Sign H should be fitted and the Sign G (if fitted) should be removed.

SIGNAGE SCOPE OF WORKS ON BEACON CONSOLIDATED SITE (LONDON SITES)

Signs A & D:

The Sign A & D of the host will normally have been fitted already unless its a completely new site. Thus it should only be necessary to add the sign D of the sharer if it is not already present. If it is a completely new site then the Sign A and Sign D's of the host and sharer must be fitted.

Sign B & B1

The Sign B will normally have been installed unless it is a completely new site. If the Upgrade work involves antenna sharing then the Sign B1 will need to be fitted. If it is a completely new site then a sign B (if separate antennas) or Sign B1 (if Shared Antennas) will need to be installed

Sign C & C1

The Sign C will normally have been installed unless the site is completely new. If the upgrade work involves antenna sharing then a Sign C1 will need to be fitted. This should be replaced where it is safe to do so. This will normally be during and re-rigging or antenna swap activity

If it is a completely new site then a Sign C (If separate Antennas) or Sign C1 (if shared antennas) will need to be installed. This would be done during the antenna rigging activities

Sign F

This sign will need to be fitted where there are both Vodafone and Telefonica input to a system

Street Works Signs

Where there is active equipment in a cabinet separately controlled by Vodafone and Telefonica then both Signs G & H should be fitted. Where the sharer equipment is added to the hosts cabinet then the sharer sign will need to be added

ADDITIONAL SIGNAGE TO REDUCE RISK				
Ref. Letter	Type/Symbol	Remarks	Location	Sign Size
		Describes what must be done or what must not be done to avoid/control the following hazards/risks	Describes the ideal location fixing for the safety signage	All sizes in mm Length x Width
K		Presence of live electrical equipment on site 'LIVE ELECTRICAL EQUIPMENT' This sign is required on ALL Sites as a MINIMUM STANDARD	Fixed to perimeter fence or structure on the site and to exterior of meter, or electrical equipment cabinet or enclosure	300 x 200 and 150 x 100
L		'KEEP OUT' This sign is required on ALL sites as a MINIMUM STANDARD	Fixed adjacent to entry to a working area(s) or access route to a working area(s) or to perimeter fence	300 x 200
M		To prevent entry of general public 'NO UNAUTHORISED ACCESS' This sign is required on ALL sites as a MINIMUM STANDARD	Fixed adjacent to entry to a working area(s) or access route to a working area(s) or to perimeter fence	300 x 200
N		Low overhead electricity or telephone lines over the site, site access or immediately adjacent to the site 'OVERHEAD ELECTRICAL POWER LINES'	Fixed to perimeter fence, or structure on the site, or on access route or approaches to the site	400 x 300
P		Presence of asbestos sheet, PVC roof lights or other fragile roofing on or adjacent to site or access route to the site 'DANGER FRAGILE ROOF'	Fixed adjacent to, or on the approach to working areas where flat or sloping fragile roofing or roof lights are present	300 x 200
R		Presence of an unprotected unfenced, unguarded edge where falls are greater than 1m 'DANGER UNPROTECTED EDGE'	Fixed adjacent to, or on the approach to an unprotected fall or unprotected roof edge	300 x 200
S		'HARNES ATTACHMENT POINT'	Fixed adjacent to the point where the safe conditions exists	300 x 200
T		Access to the site working area is only permitted when wearing a harness e.g Working with 2m of edge of rooftop or climbing towers 'WEAR SAFETY HARNES'	Fixed immediately adjacent to the working area(s)	300 x 200
V		Safe access to working area is only by using walkways 'USE WALKWAYS'	Fixed immediately adjacent to entry to access route	300 x 200

Additional signage is to be placed in appropriate locations to warn of any additional risks highlighted through risk assessment, in areas where other management techniques do not remove the risk.

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Cell ID No		
CORNERSTONE	VF	VMO2
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144306_24	11246_15	36310
Site Address / Contact Details		
ALL SAINTS CHURCH THE GREEN CROXLEY GREEN HERTFORDSHIRE WD3 3HJ		
Drawing Title: SIGNAGE DETAILS		
Purpose of issue: CONSTRUCTION		Dwg Rev:
Drawing Number: 701		A
Surveyed By: DR	Original Sheet Size: A3	Pack Issue:
Drawn: NP	Date: 30.06.23	Checked: GD
Date: 30.06.23	Date: 30.06.23	B