

Lower Thames Crossing
**2.9 Engineering Drawings
and Sections**
**Volume H (overhead diversion
routes and pylon general
arrangement)**
(Clean version)

APFP Regulation 5(2)(o) and 6(2)

Infrastructure Planning (Applications:
Prescribed Forms and Procedure)
Regulations 2009

Volume 2

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Lower Thames Crossing

2.9 Engineering Drawings and Sections Volume H (overhead diversion routes and pylon general arrangement) (Clean version)

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1 Introduction

- 1.1.1 This document is submitted to the Planning Inspectorate on behalf of the Secretary of State in relation to an application made by National Highways (the Applicant) under section 37 of the Planning Act 2008.
- 1.1.2 The application is for the grant of development consent for the A122 Lower Thames Crossing. Should development consent be granted, the draft A122 (Lower Thames Crossing) Development Consent Order (Application Document 3.1) (the draft Order) will be made by the Secretary of State (subject to any modifications considered appropriate).
- 1.1.3 This document comprises part of the suite of application documentation and is included in the application to comply with Regulations 5(2)(o) and 6(2) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (the 2009 Regulations), which require:
- a. *5(2)(o) 'any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance, and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping.*
 - b. *6(2) If the application is for highway related development or for the construction or alteration of a railway, it must be accompanied by section drawings to suitable horizontal and vertical scales, which show, by reference to Ordnance Survey or Chart datum:*
 - c. *the levels of the proposed works, including in particular and where relevant:*
 - i. *ground levels;*
 - ii. *the height of every proposed bridge, viaduct, aqueduct, embankment and elevated guideway;*
 - iii. *the depth of every proposed cutting and tunnel;*
 - iv. *the levels of the bed of any tidal waters or inland waterway in which it is proposed that any works should be situated;*
 - v. *the height of every structure or device (including a cable, but not catenary and related equipment) intended to be erected above, on or below the surface of, or on or beneath the bed of tidal waters or an inland waterway; and*
 - vi. *drainage outfall details for highways;*

- 1.1.4 The purpose of the Engineering Drawings and Sections Plans is to show the key features of the Project for which development consent is sought. The set shows details of the proposed road plan and longitudinal profile including the ground levels, the height of certain structures and embankments, the depth of proposed cuttings and tunnel, and the indicative location and level of drainage outfall features.
- 1.1.6 For each section, the Applicant has provided a key plan of the corresponding geographical area that provides the sheet number and a description of the associated road works to help with its identification within the set. It is important to note that the plans are numbered in each of the aforementioned sections and that the numbering system does not apply to the set as whole.
- 1.1.7 The key plans use a smaller scale than that prescribed in Regulation 5(3) of the 2009 Regulations so that the Project or the section of the Project can be represented in a single sheet plan. The scales in the key plans vary from 1:50000 to 1:5000. The remaining sheets in the set containing the plan and profiles and the cross sections have been prepared at a horizontal scale of 1:2500 and a vertical scale of 1:250.
- 1.1.8 As this document has been informed by and is part of the application documentation it should be read alongside the other application documents. In particular, the plans should be read alongside the Works Plans (Application Document 2.6) and Schedule 1 of the draft Order (Application Document 3.1). Article 6 of the draft Order should also be referred to as it provides the reference points for the application of the upwards and downwards vertical limits of deviation applicable to the elements of the works.
- 1.1.9 Numbered works shown in the Engineering Drawings and Sections Plans are consistent with the information presented in the Works Plans (Application Document 2.6) and Schedule 1 of the draft Order (Application Document 3.1). Further details of the proposed bridges and tunnel structures are provided in the Structures Plans (Application Document 2.13).
- 1.1.10 The information shown on the plans is commensurate with the preliminary design status of the Project. The detailed design will be in accordance with the extent of the defined limits of deviation provided and any approval required under the DCO requirements set out in Schedule 2 of the draft Order (Application Document 3.1).
- 1.1.11 The lateral limits of deviation for the works are shown in the Works Plans (Application Document 2.6) and in the Tunnel Limits of Deviation (Application Document 2.15); article 6 of the draft Order establishes the vertical limits of deviation. Further information about the limits of deviation is provided in the Introduction to the Application (Application Document 1.3).
- 1.1.6 The Engineering Drawings and Sections show the Order Limits. In this plan set, 'the Order Limits' mean the limits of lands to be acquired or used, permanently or temporarily, within which the authorised development may be carried out (see article 2 of the draft Order (Application Document 3.1)).
- 1.1.7 To ensure that the file size of this document does not exceed the 50MB limit prescribed by the Planning Inspectorate, the set has been split into eight volumes:

- a. Volume A contains the A122 Lower Thames Crossing Plan and Profiles;
- b. Volume B contains the A122 Lower Thames Crossing Cross Sections;
- c. Volume C contains the A2/M2 Plan and Profiles and A2 Mainline Plan and Profiles;
- d. Volume D contains the A122 Lower Thames Crossing/A2 Junction Plan and Profiles;
- e. Volume E contains the South Portal Plan and Profiles and Tilbury Plan and Profiles;
- f. Volume F contains the A13 Junction Plan and Profile;
- g. Volume G contains the A122 Lower Thames Crossing/M25 Junction Plan; and
- h. Volume H contains the Overhead Diversion Route and Pylon general arrangements.

1.1.12 These plans have been updated for Deadline 9 to include all agreed proposed changes and amendments throughout Examination.

2 Schedule of Plans included in this application document

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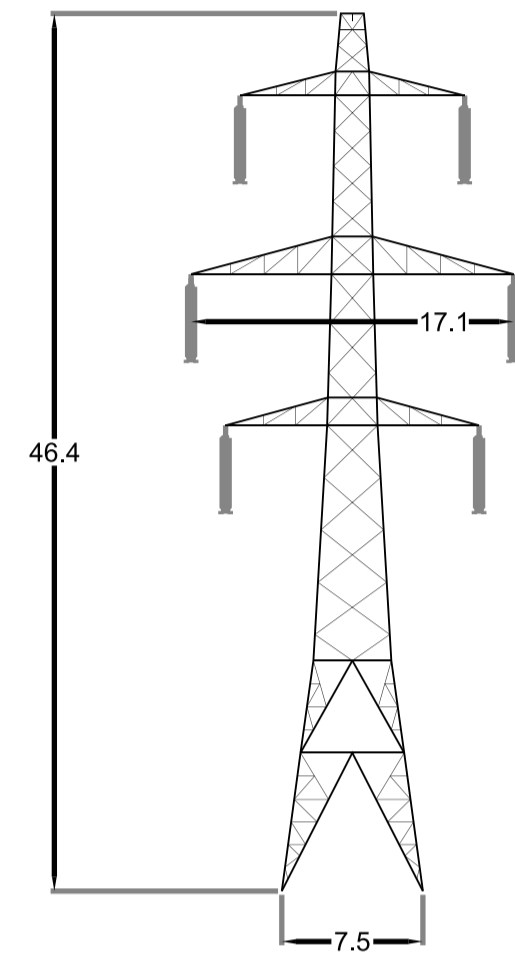
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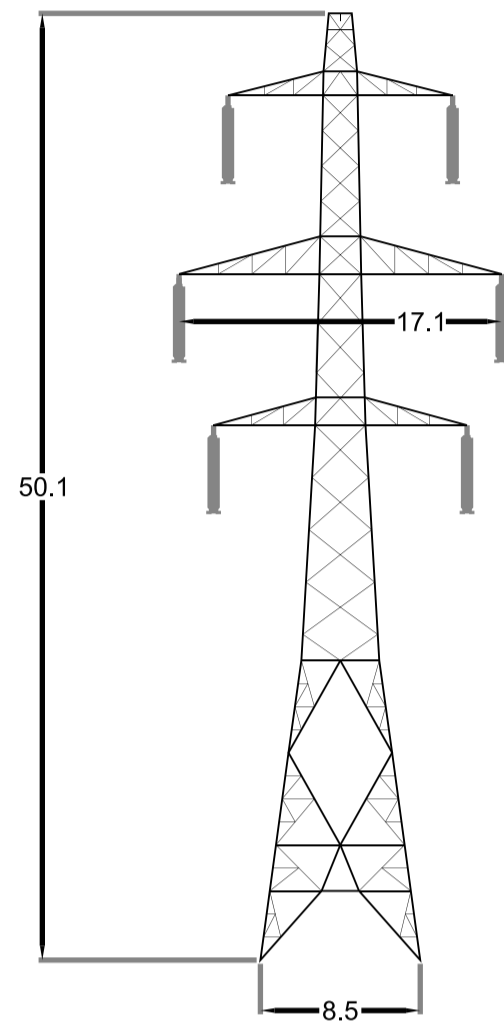
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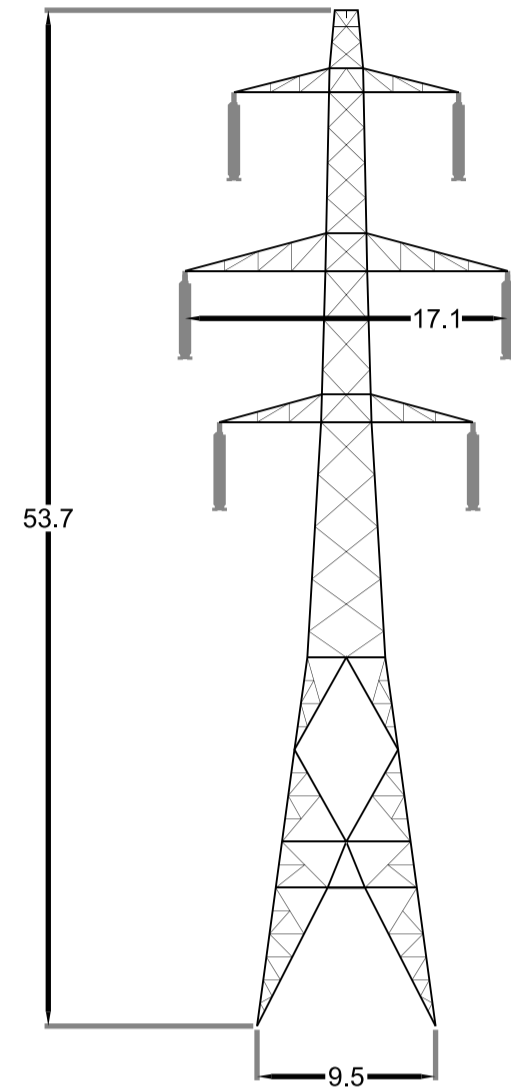
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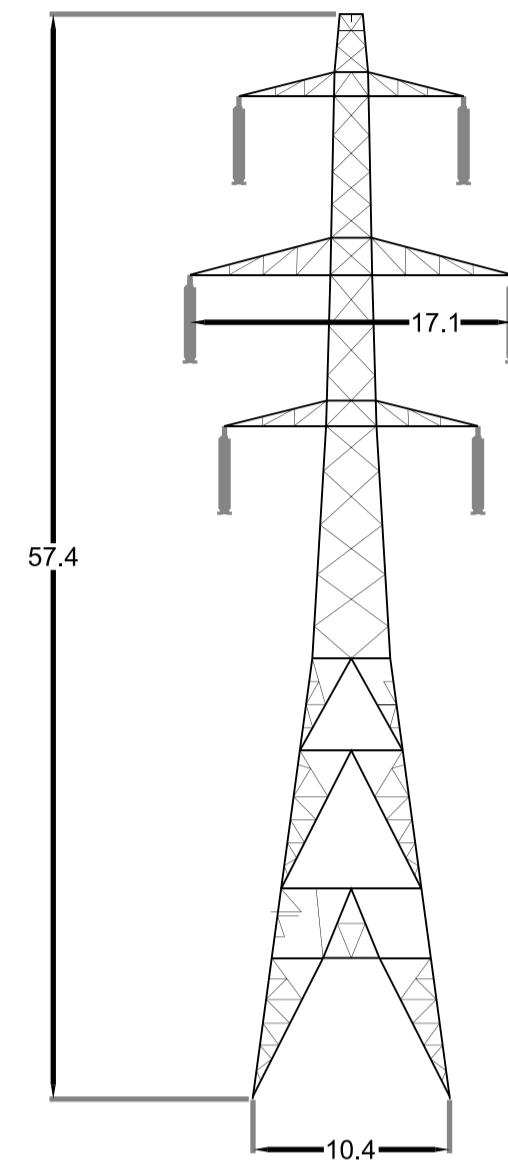
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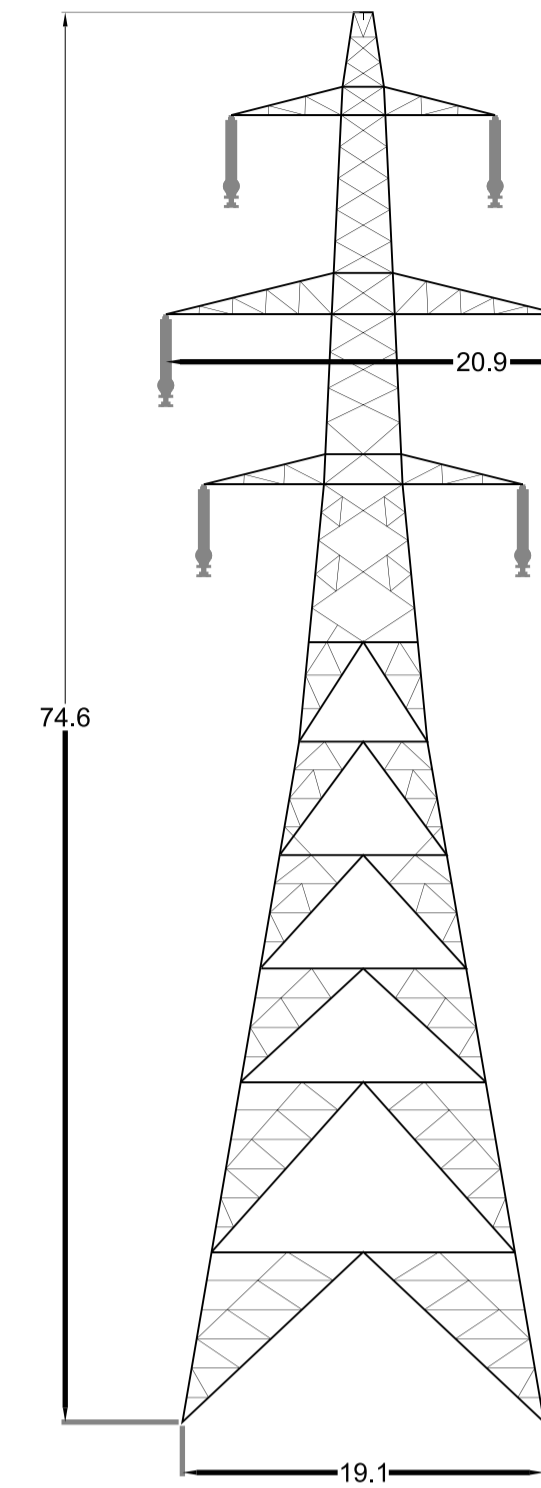
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SUSPENSION



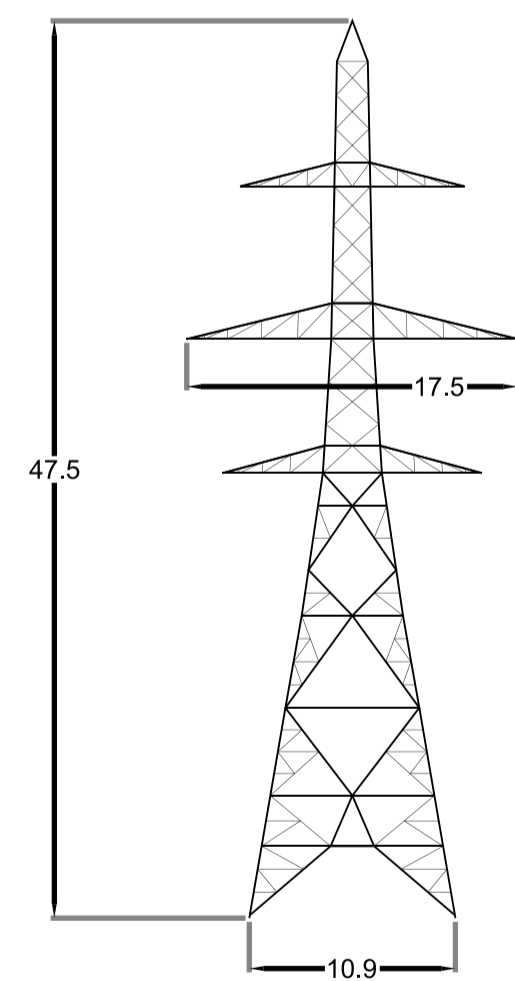
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LATTICE PYLON
SUSPENSION



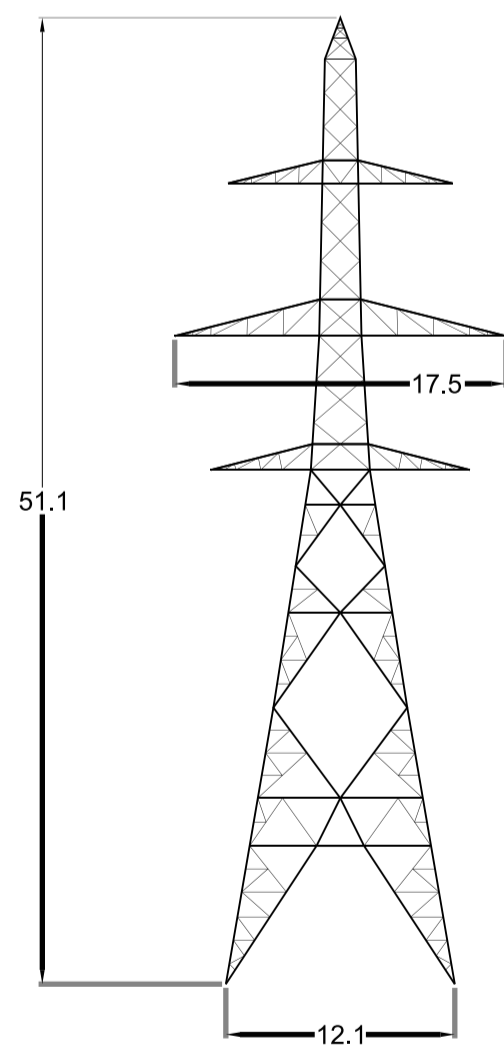
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LATTICE PYLON
SUSPENSION



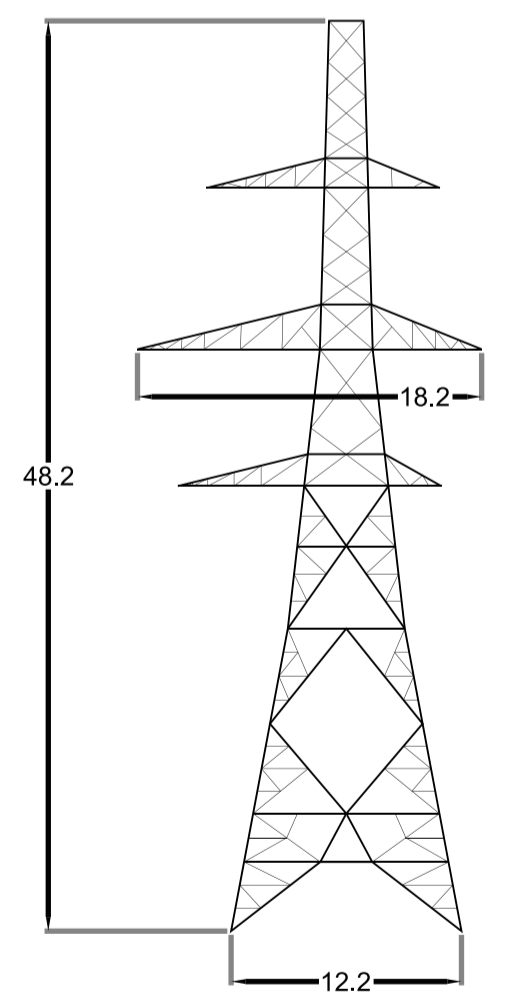
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LATTICE PYLON
SUSPENSION



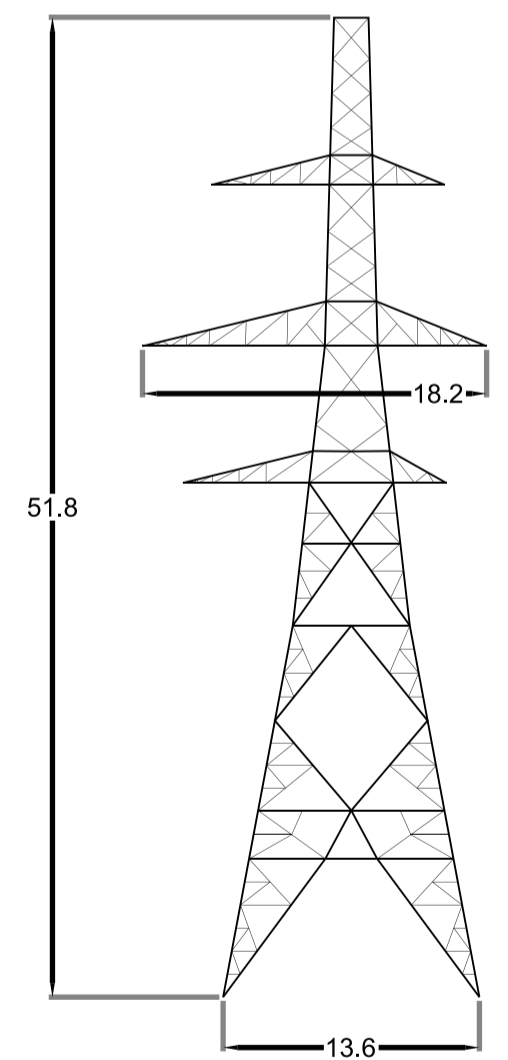
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LATTICE PYLON
TENSION



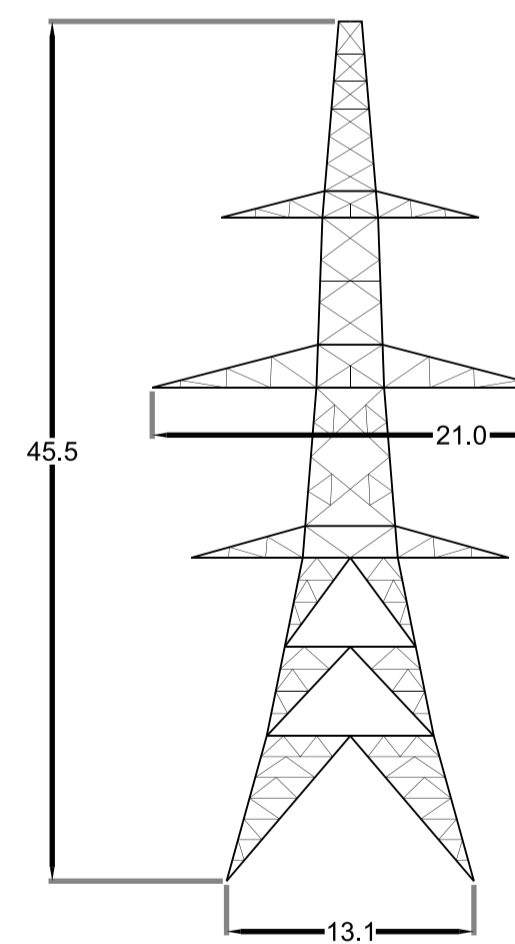
L8c D30 E7.3 275/400kV
LATTICE PYLON
TENSION



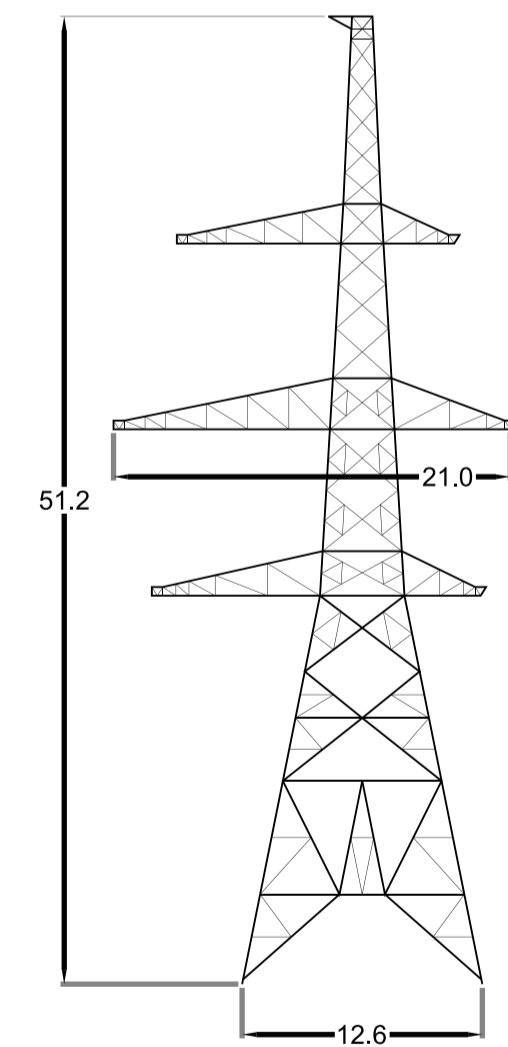
L8c D60 E3.7 275/400kV
LATTICE PYLON
TENSION



L8c D60 E7.3 275/400kV
LATTICE PYLON
TENSION



L6m D30 M3 400kV
LATTICE PYLON
TENSION



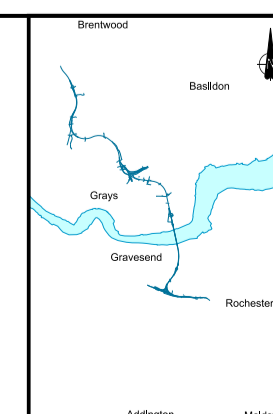
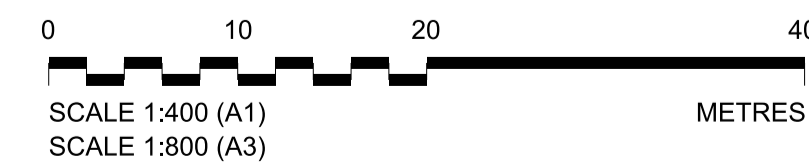
L13 D60 STD 400kV
LATTICE PYLON
TENSION

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NOTES:

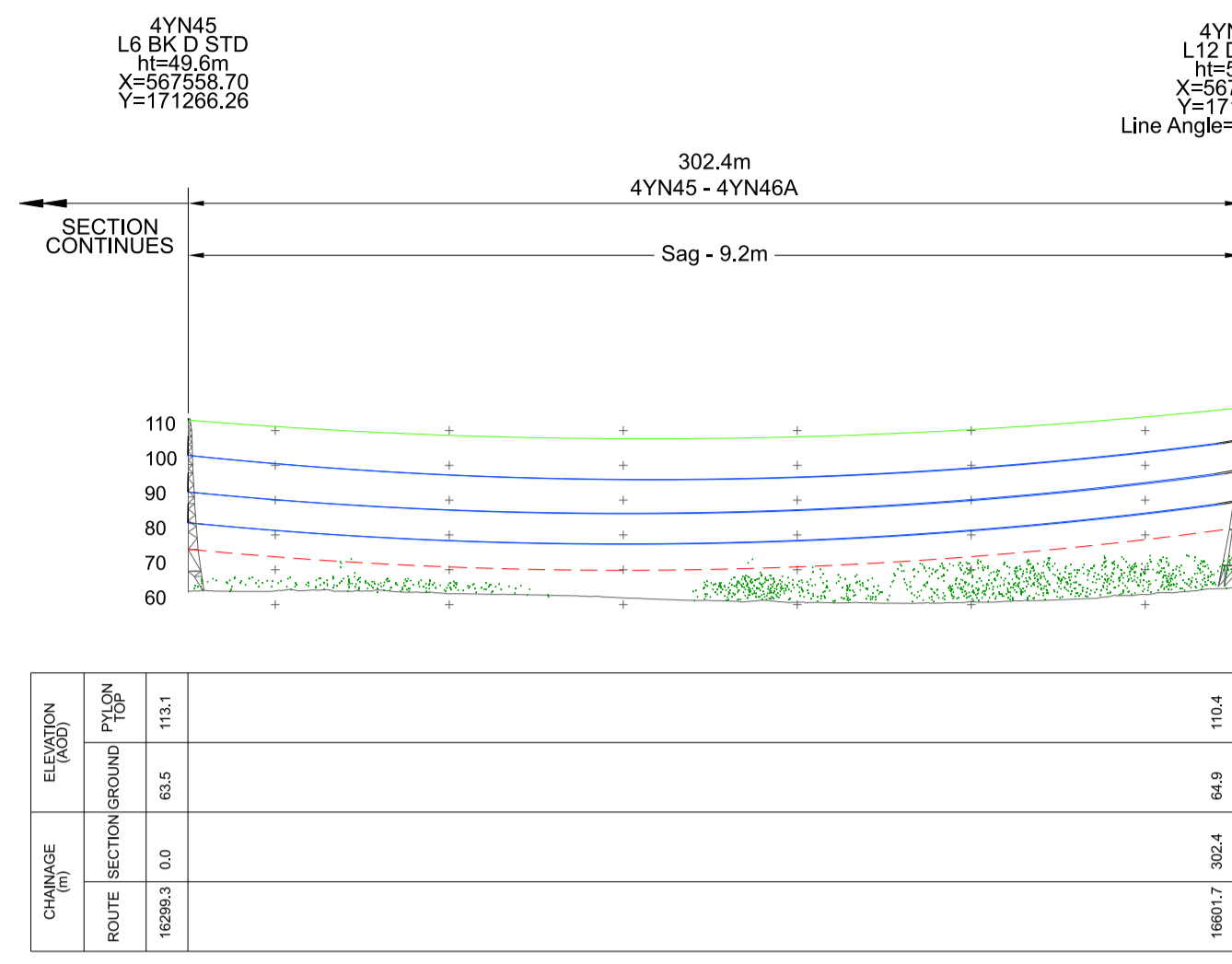
- The proposed design of the structure shown is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
- All dimensions are in metres unless stated otherwise.

P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

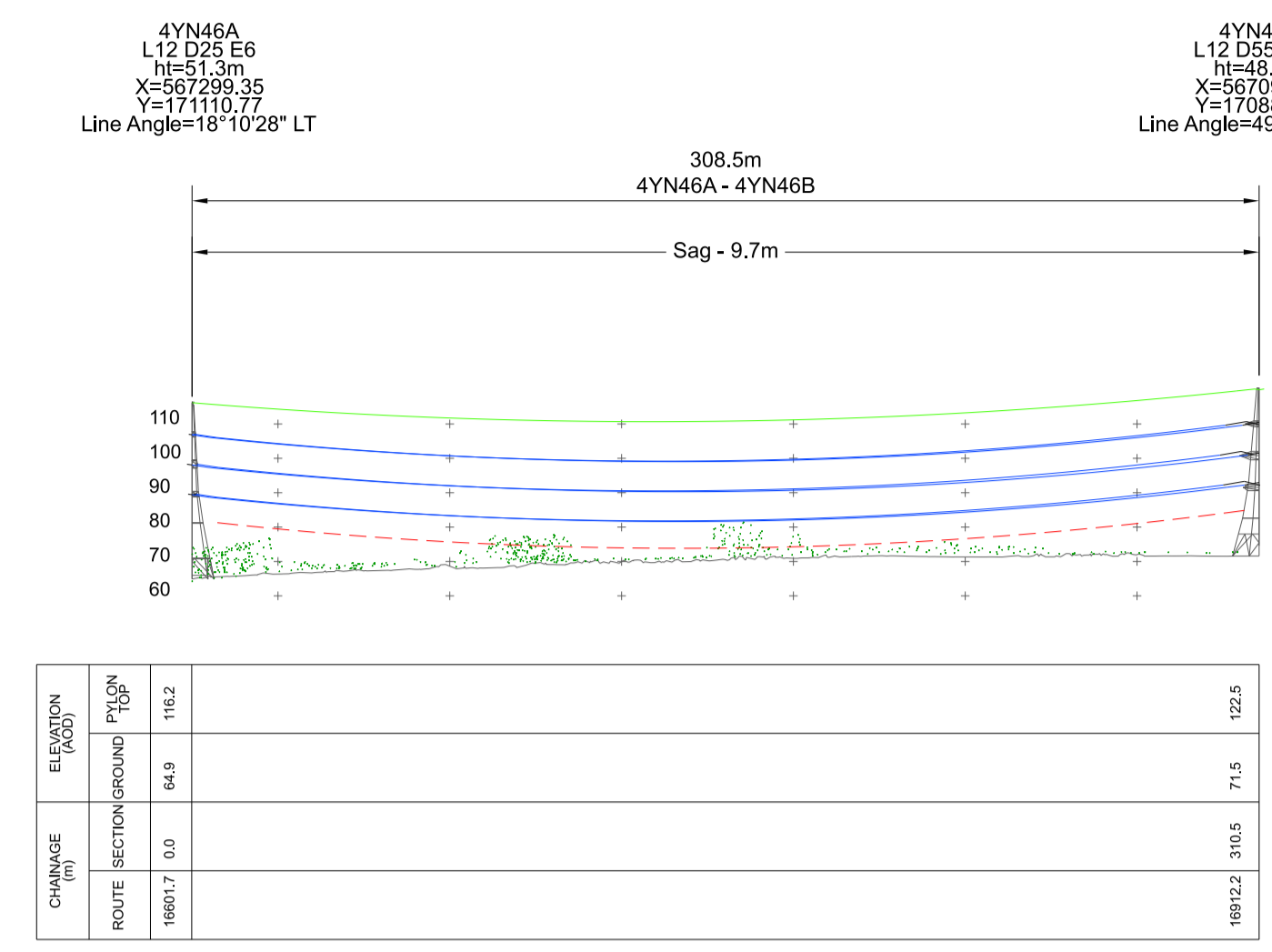


Client
national highways
Project
LOWER THAMES CROSSING

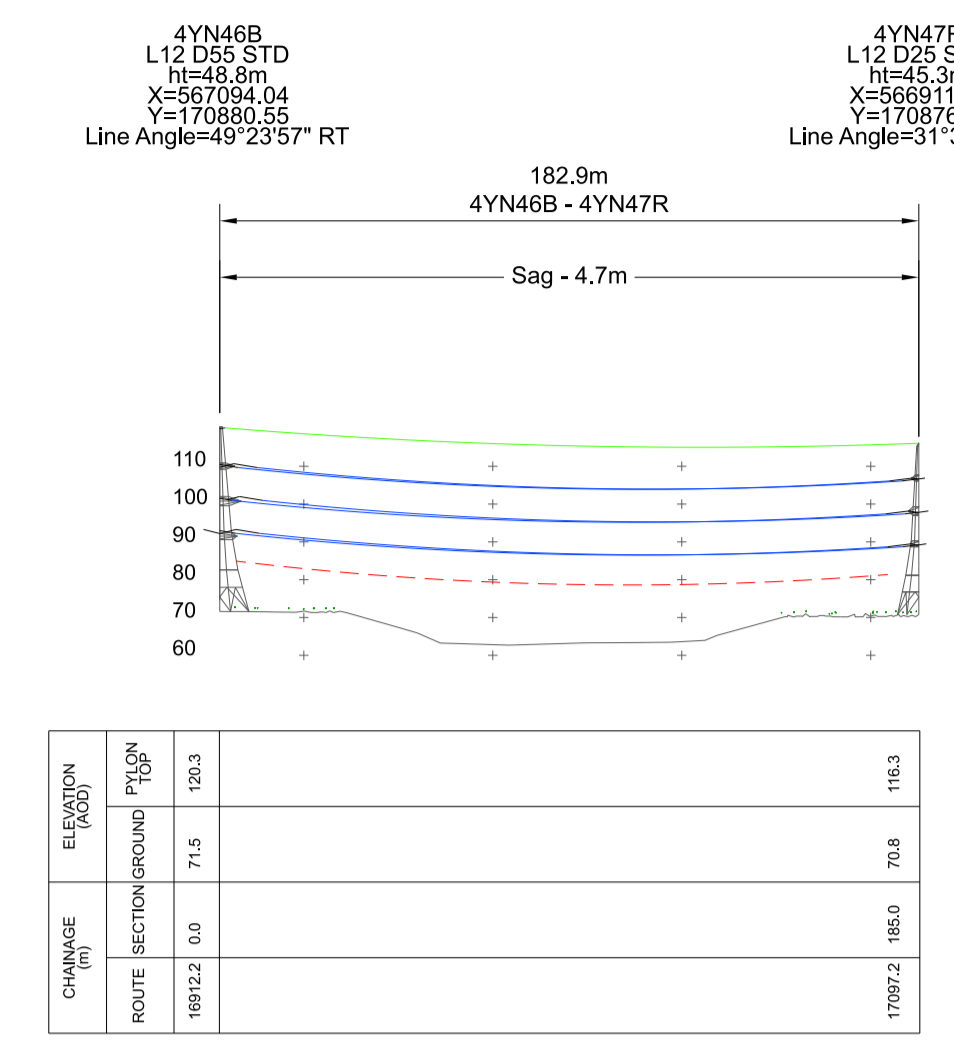
Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	1:400		
Drawing title	OVERHEAD DIVERSION ROUTE REGULATION 5(2)(o) AND 6(2) PYLON LAYOUT				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10800				



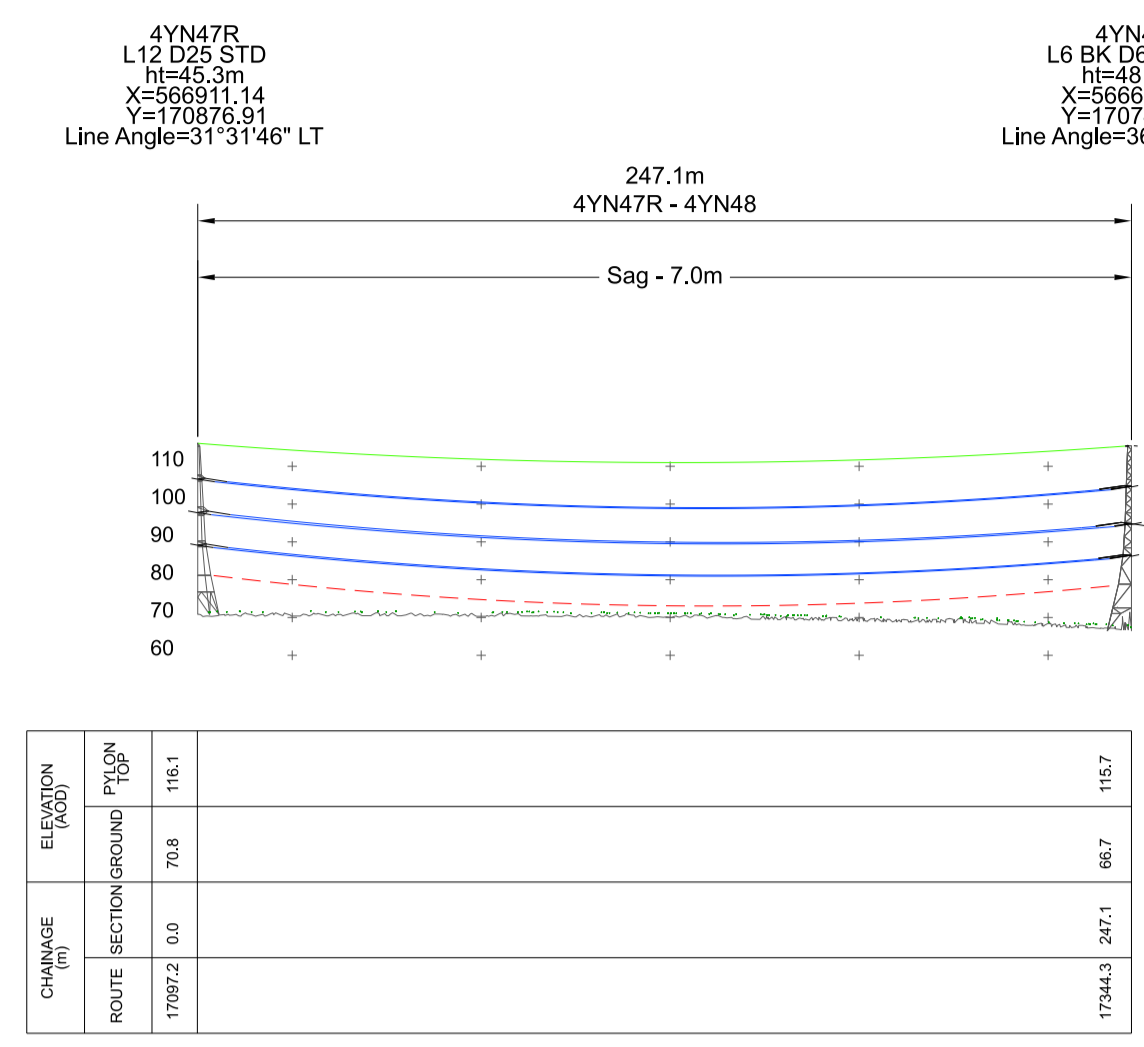
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VERTICAL - NOT TO SCALE



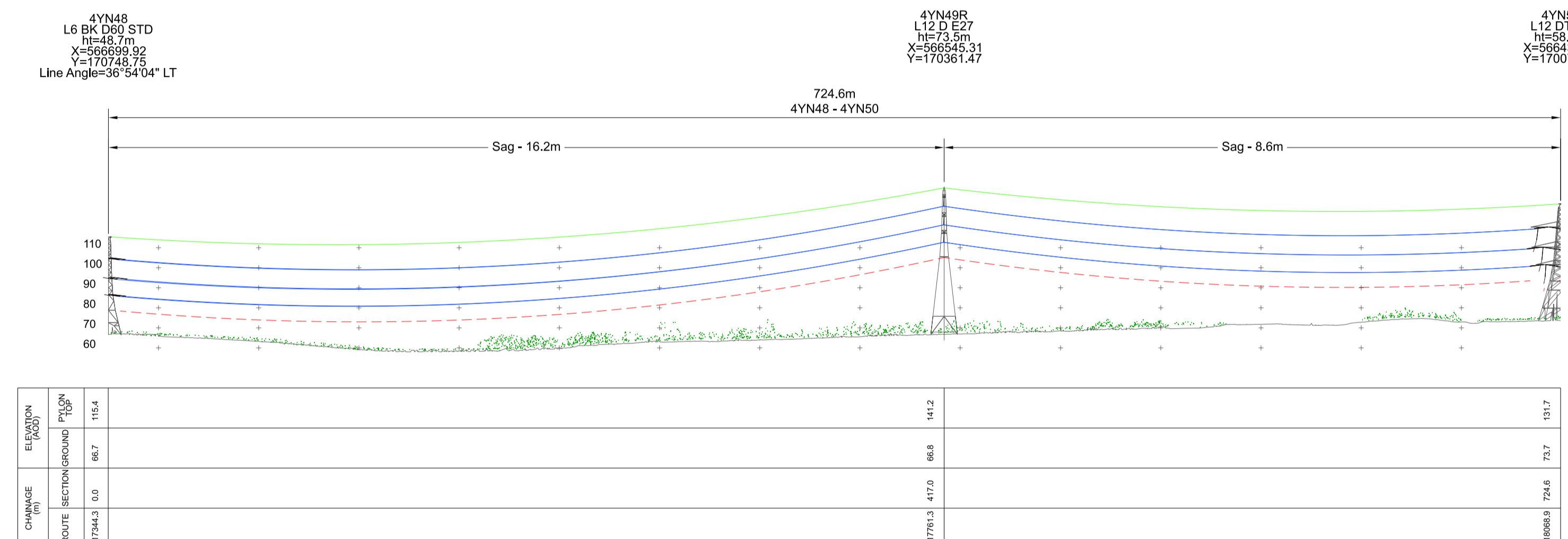
HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE

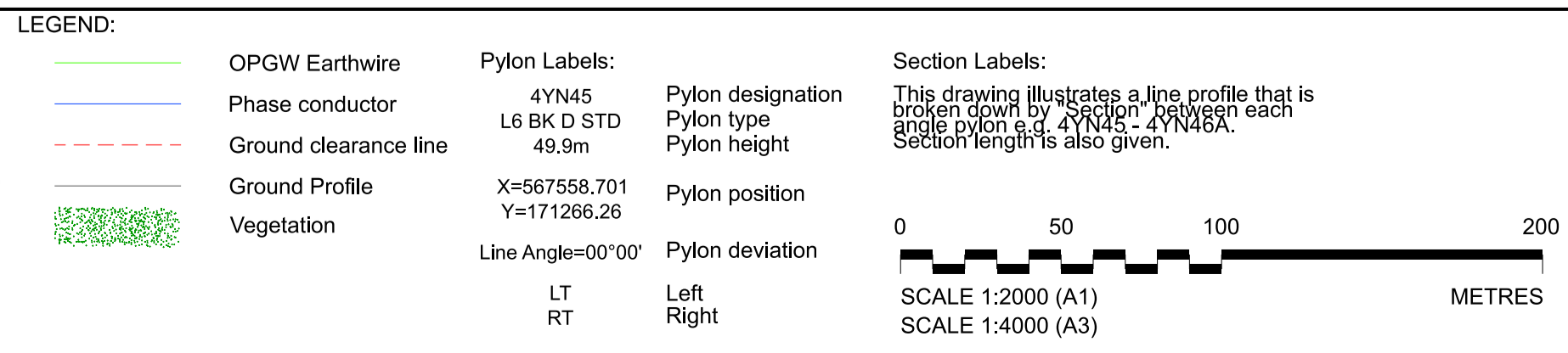
Contains Ordnance Survey data. © Crown copyright and database rights 2023. Ordnance Survey 100030649

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB

NOTES:

- The design and location of the structure is shown here for illustrative purposes only and will be subject to detailed design development in accordance with the provisions of the Development Consent Order (TR010032/APP/3.1).
- For Environmental details refer to the Environmental Masterplan (TR010032/APP/6.2 Fig 2.4) and Environmental Constraints Plan (TR010032/APP/6.2 Fig 2.3) and associated drawings and documents. Drawings show engineering earthworks only. Landscape earthworks are not shown.
- All dimensions in millimetres unless noted otherwise.
- All levels are in metres and relate to Ordnance datum unless stated otherwise.
- Works numbers are described in Schedule 1 (Authorised Development) of the Development Consent Order (TR010032/APP/3.1).
- For pylon locations in plan refer to the Works Plans (TR010032/APP/2.6)

- LEGEND:
- OPGW Earthwire
 - Phase conductor
 - Ground clearance line
 - Ground Profile
 - Vegetation
- Pylon Labels:
- | | |
|-------------------|-------------------|
| 4YN45 | Pylon designation |
| L6 BK D STD | Pylon type |
| 49.9m | Pylon height |
| X=567558.70 | Pylon position |
| Y=171266.26 | Pylon position |
| Line Angle=00°00' | Pylon deviation |
| LT | Left |
| RT | Right |
- Section Labels:
- This drawing illustrates a line profile that is broken down by section between each angle pylon e.g. 4YN45 - 4YN46A. Section lengths are also given.
- 0 50 100 200 METRES
- SCALE 1:2000 (A1)
SCALE 1:4000 (A3)



Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	OVERHEAD DIVERSION ROUTE REGULATION 5(2)(o) AND 6(2) SHEET 1				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10801				

ZJ10
L2 D60 E24
50.2m
X=566987.5
Y=177490.7
Line Angle=32°34'54" LT

ZJ11A
L8(c) D30 E7.3
51.1m
X=567005.5
Y=177602.7
Line Angle=29°6'58" LT

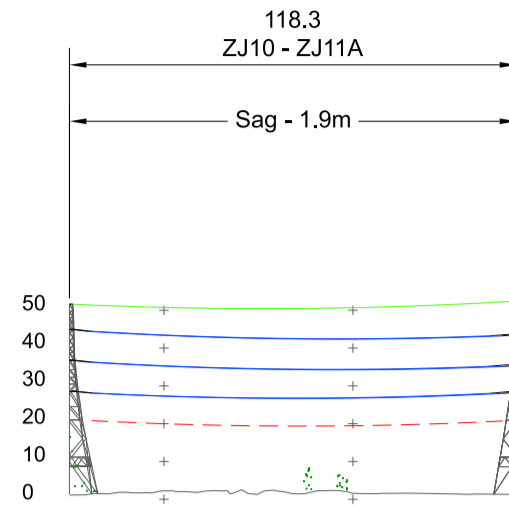
ZJ11A
L8(c) D30 E7.3
51.1m
X=567005.5
Y=177602.7
Line Angle=29°6'58" LT

ZJ11B
L8(c) D E4.9
51.3m
X=566983.1
Y=177835.3

ZJ11C
L8(c) D60 E7.3
51.8m
X=566906.4
Y=178154.8
Line Angle=59°1'18" RT

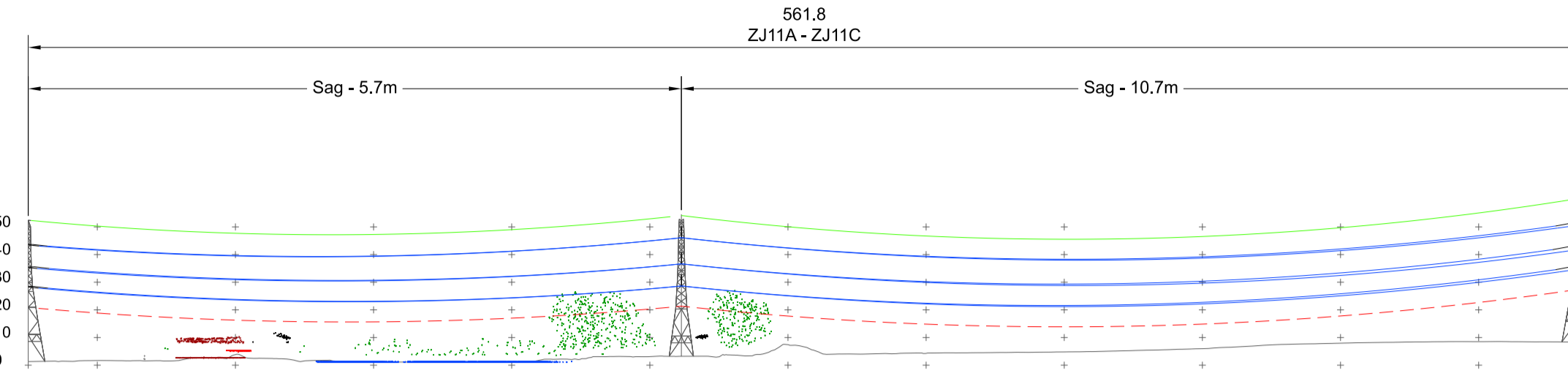
ZJ11C
L8(c) D60 E7.3
51.8m
X=566906.4
Y=178154.8
Line Angle=59°1'18" RT

ZJ12R
L8(c) D60 E7.3
51.8m
X=567082.9
Y=178296.8
Line Angle=53°21'48" LT



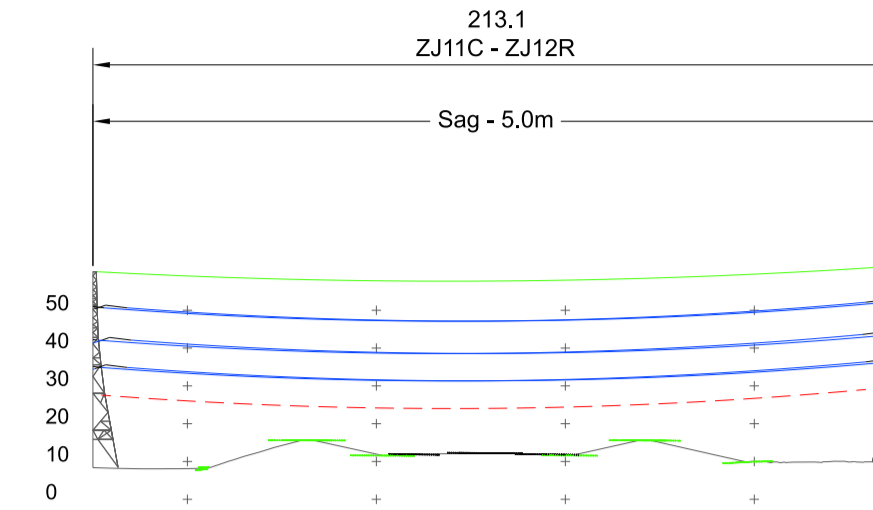
CHANGE (m)	ROUTE SECTION/GROUND	ELEVATION (AOD)	PYLON TOP
0.0	317694.4	1.1	51.3
118.3	317771.7	1.3	52.4

HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



CHANGE (m)	ROUTE SECTION/GROUND	ELEVATION (AOD)	PYLON TOP
0.0	317717	1.3	52.4
294.4	380141	3.2	54.5
191.8	383385.5	8.3	60.1

HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



CHANGE (m)	ROUTE SECTION/GROUND	ELEVATION (AOD)	PYLON TOP
0.0	383385.5	8.3	60.1
213.1	388526	13.3	61.6

HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE

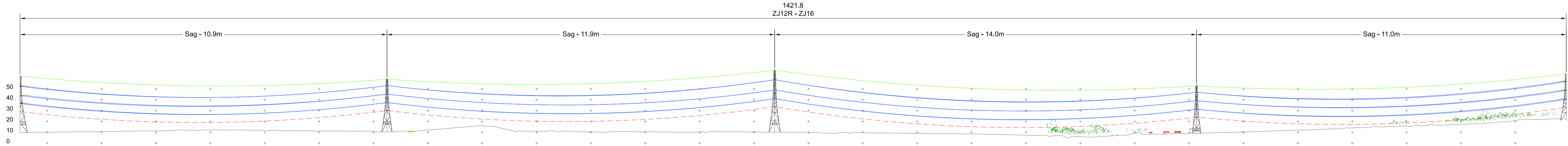
ZJ12R
L8(c) D60 E7.3
51.8m
X=567082.9
Y=178296.8
Line Angle=53°21'48" LT

ZJ13
L2 D E24
48.9m
X=567037
Y=178632.5

ZJ14R
L8(c) D E11
37.4m
X=567007.8
Y=178987.7

ZJ15
L2 D E8
44m
X=566976
Y=179374.3

ZJ16
L2 D60 STD
47.9m
X=566949.1
Y=179713.3
Line Angle=52°7'45" RT



CHANGE (m)	ROUTE SECTION/GROUND	ELEVATION (AOD)	PYLON TOP
0.0	388526	8.3	61.6
327.5	396901	10.4	63.3
683.9	395865.5	18.2	67.8
1081.8	396344	30.0	63.3
1613.8	39674.5	22.4	68.3

HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE

NOTES:

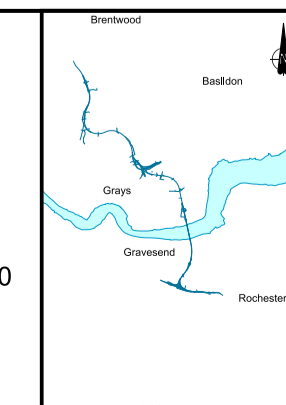
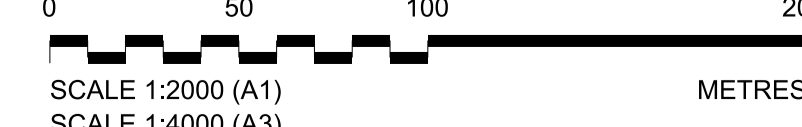
- The proposed works shown are illustrative only and will be subject to change as part of the detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.2).
- These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1).
- For Environmental details refer to the Environmental Masterplan (application document TR010032/APP/6.2 Fig. 2.4) and Environmental Constraints Plan (TR010032/APP/6.2 Fig. 2.3) and associated drawings and documents.
- These plans show engineering earthworks only and landscape earthworks are not shown.
- All dimensions are in millimetres unless stated otherwise.
- All levels are in metres and relate to Ordnance datum unless stated otherwise.

LEGEND:

- OPGW Earthwire
- Phase conductor
- Ground clearance line
- Ground Profile
- Vegetation

- Pylon Labels:**
- 4YN45 Pylon designation
 - L6 BK D STD Pylon type
 - 49.9m Pylon height
 - X=567558.701 Pylon position
 - Y=171266.26 Pylon deviation
 - LT Left
 - RT Right

Section Labels:
This drawing illustrates a line profile that is broken down by section between each angle pylon e.g. 4YN45 - 4YN45A. Section length is also given.

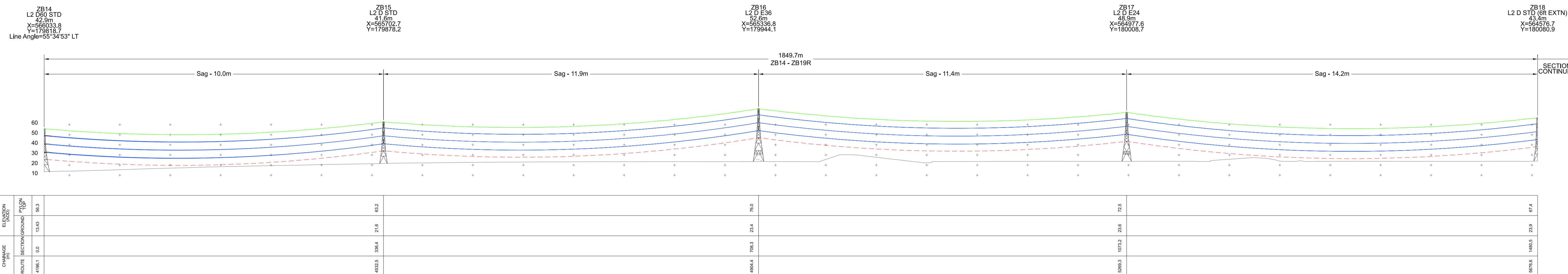


Client: **national highways**

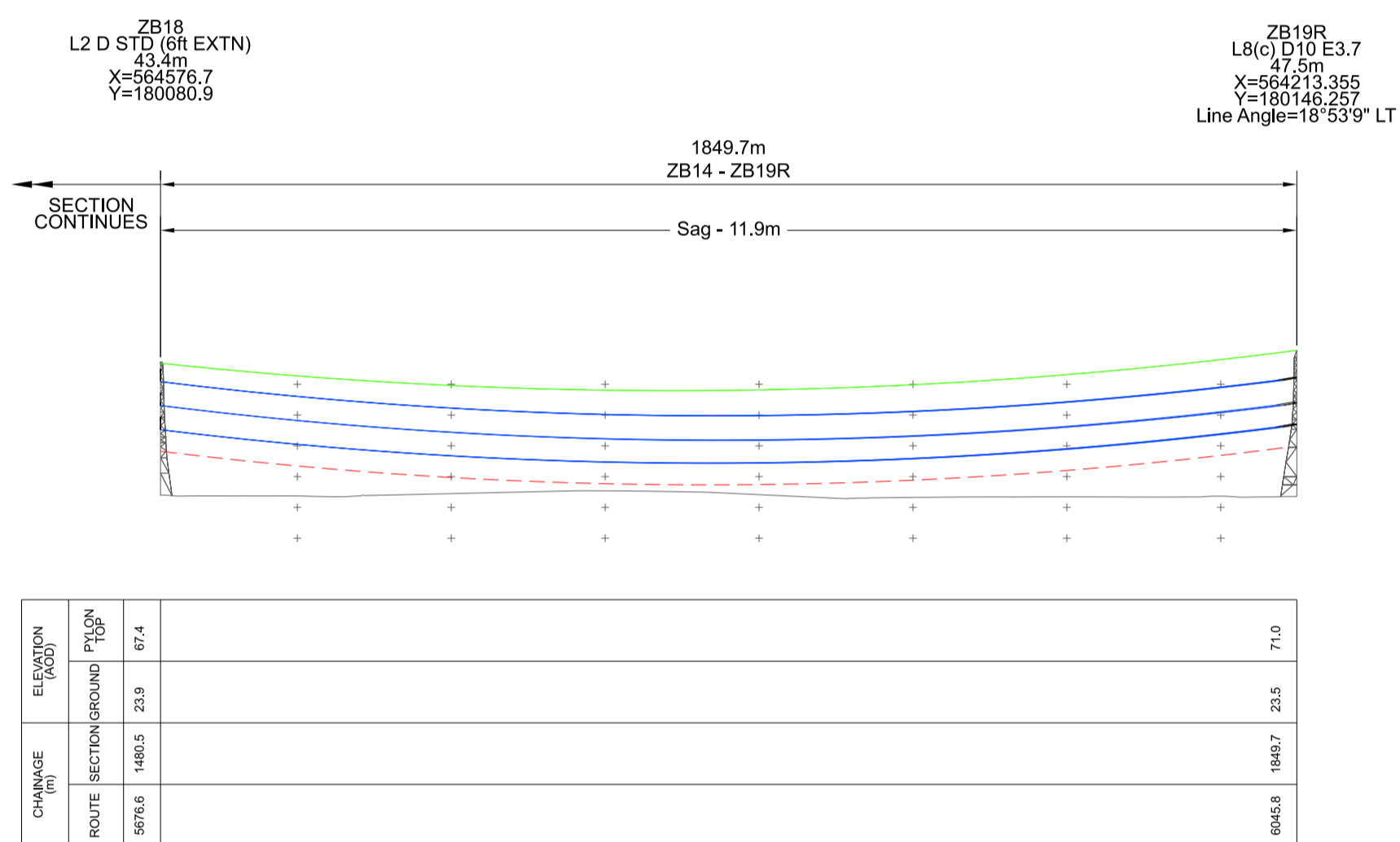
Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	OVERHEAD DIVERSION ROUTE REGULATION 5(2)(o) AND 6(2) SHEET 2				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10802				

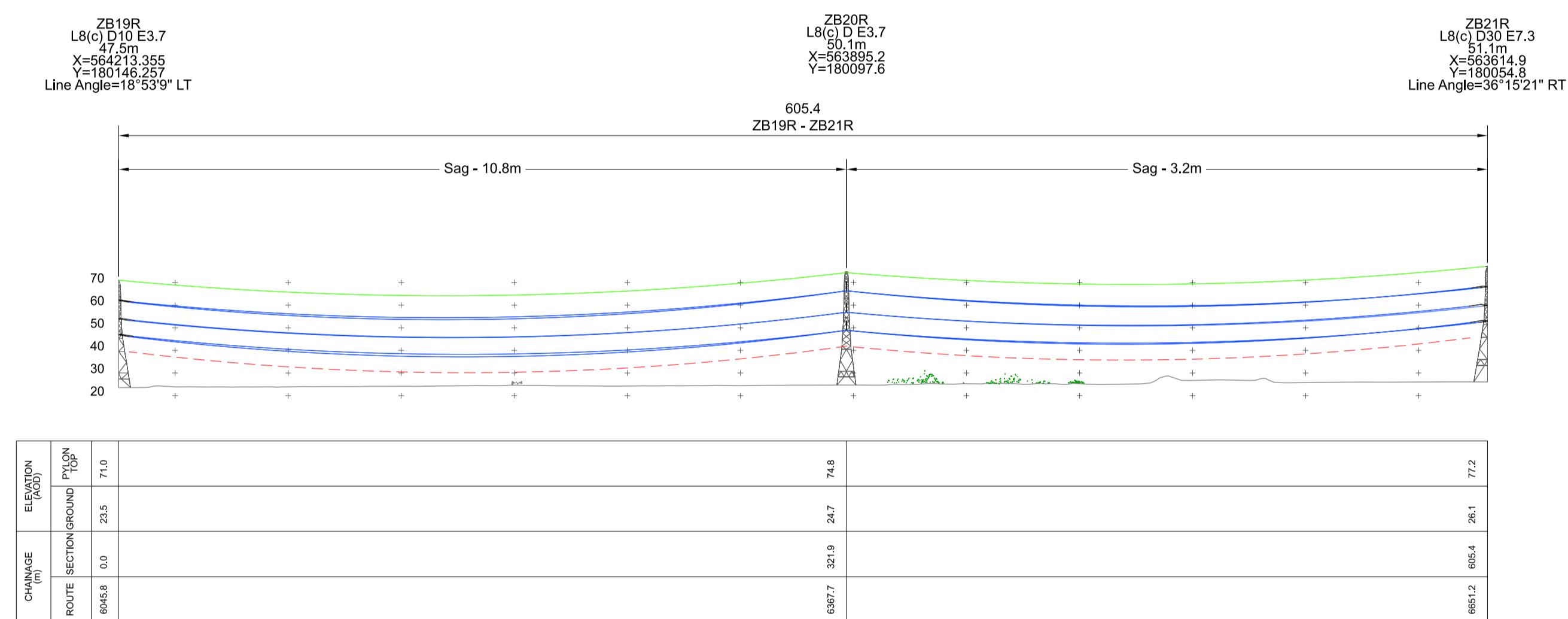
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB



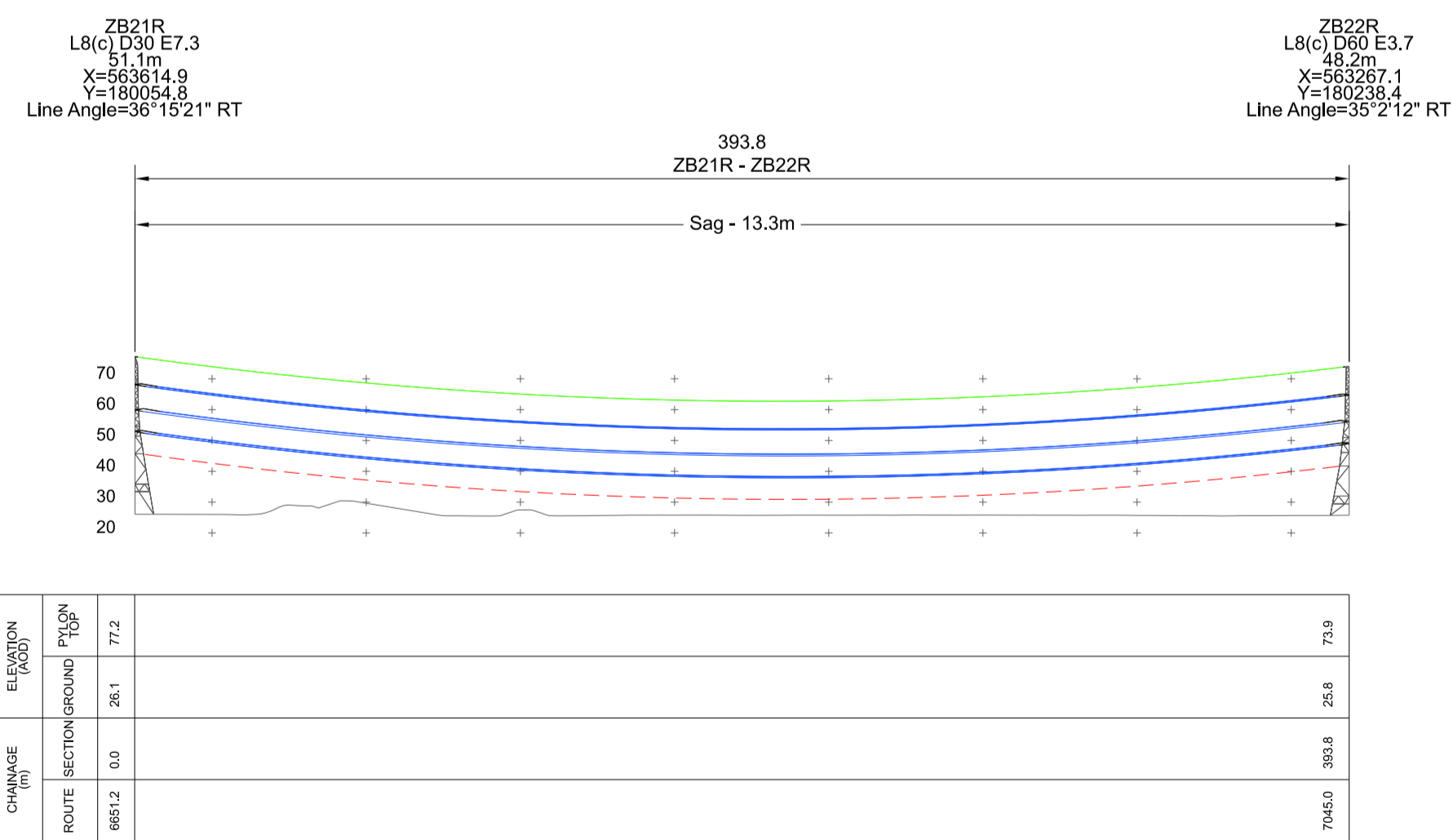
HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE

NOTES:

- The proposed works shown are illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
- These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1).
- For Environmental details refer to the Environmental Masterplan (application document TR010032/APP/6.2 Fig. 2.4) and environmental Constraints Plan (TR010032/APP/6.2 Fig. 2.3) and associated drawings and documents.
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- All levels are in metres and relate to Ordnance datum unless stated otherwise.

LEGEND:

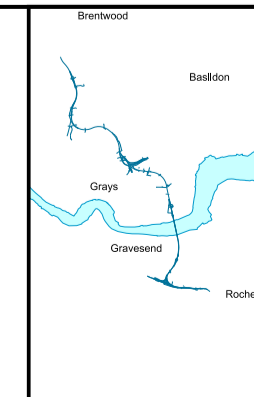
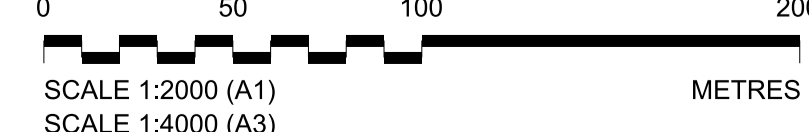
- OPGW Earthwire
- Phase conductor
- Ground clearance line
- Ground Profile
- Vegetation

Pylon Labels:

- 4YN45 Pylon designation
- L6 BK D STD Pylon type
- 49.9m Pylon height
- X=567558.701 Pylon position
- Y=171266.26 Pylon deviation
- LT Left
- RT Right

Section Labels:

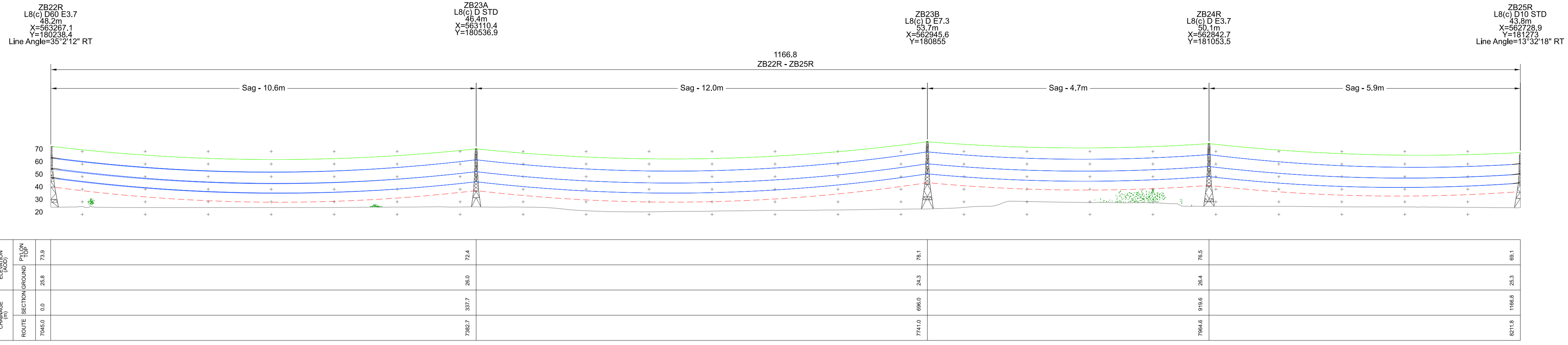
This drawing illustrates a line profile that is broken down by section between each angle pylon e.g. 4YN45 - 4YN46A. Section length is also given.



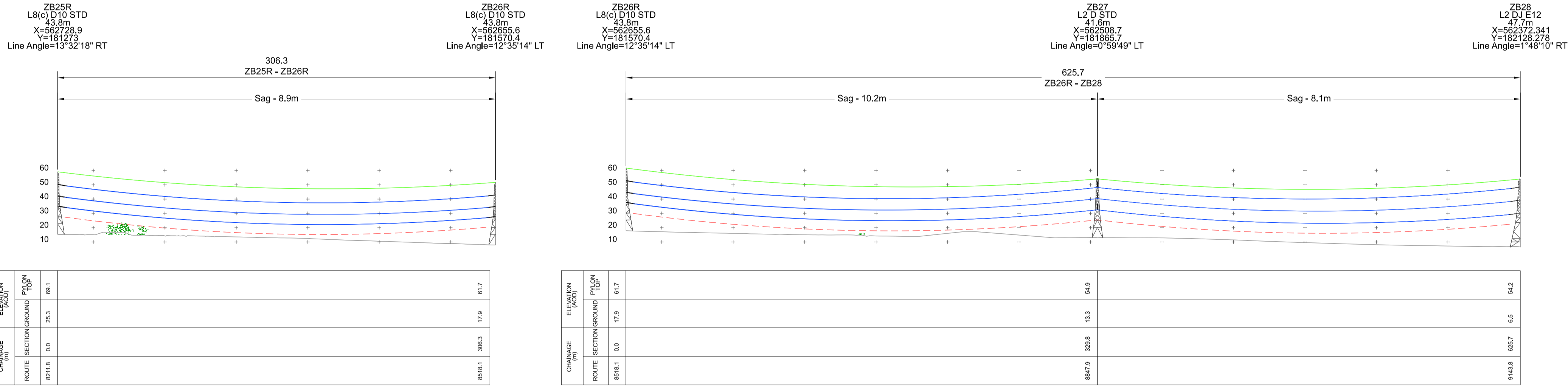
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	OVERHEAD DIVERSION ROUTE REGULATION 5(2)(o) AND 6(2) SHEET 3				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10803				

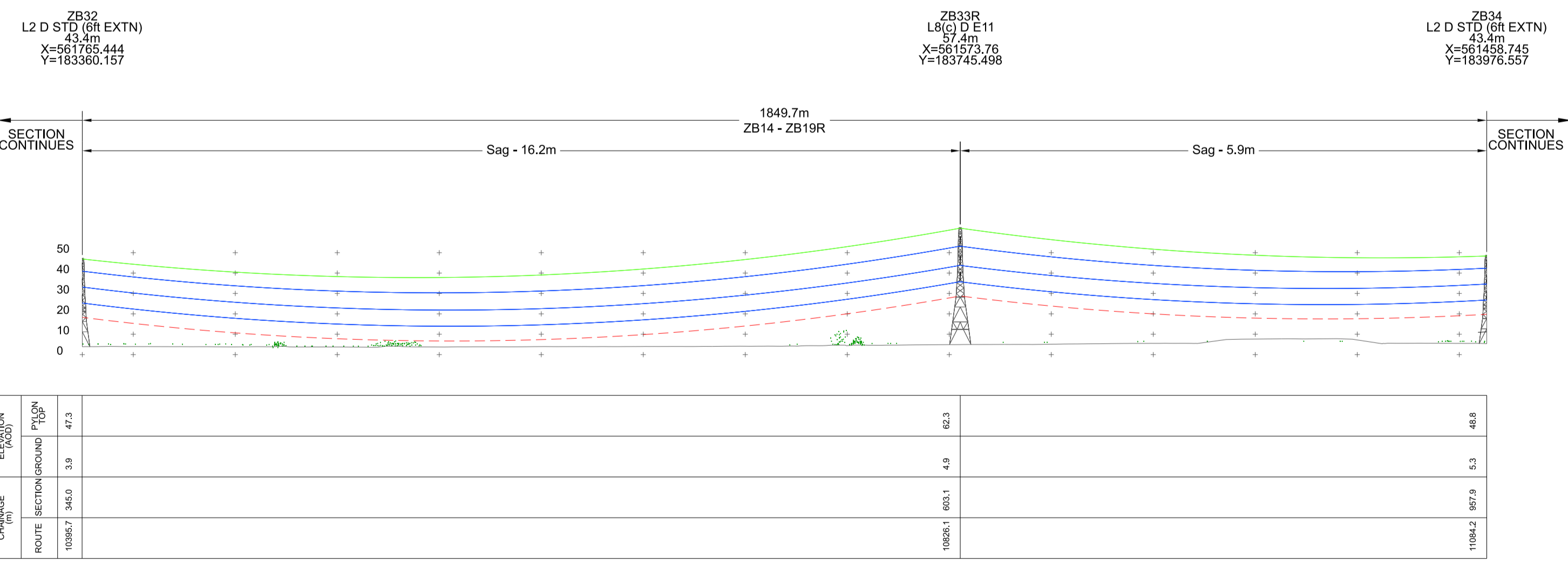


HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE

HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB

NOTES:

- The proposed works shown are illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
- These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1).
- For Environmental details refer to the Environmental Masterplan (application document TR010032/APP/6.2 Fig. 2.4) and environmental Constraints Plan (TR010032/APP/6.2 Fig. 2.3) and associated drawings and documents.
- These plans show engineering earthworks only and landscape earthworks are not shown.
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- All levels are in metres and relate to Ordnance datum unless stated otherwise.

LEGEND:

- OPGW Earthwire
- Phase conductor
- Ground clearance line
- Ground Profile
- Vegetation

Pylon Labels:

4YN45 Pylon designation
L6 BK D STD Pylon type
49.9m Pylon height
X=567558.701 Pylon position
Y=171266.26
Line Angle=00°00'

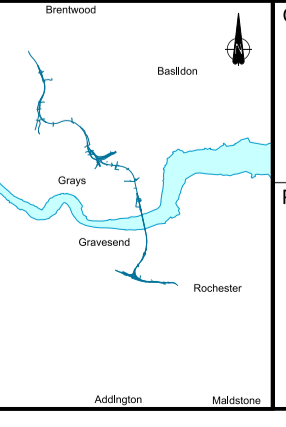
LT Left
RT Right

Section Labels:

This drawing illustrates a line profile that is broken down by section between each angle pylon e.g. 4YN45 - 4YN46A. Section length is also given.

0 50 100 200 METRES

SCALE 1:2000 (A1)
SCALE 1:4000 (A3)



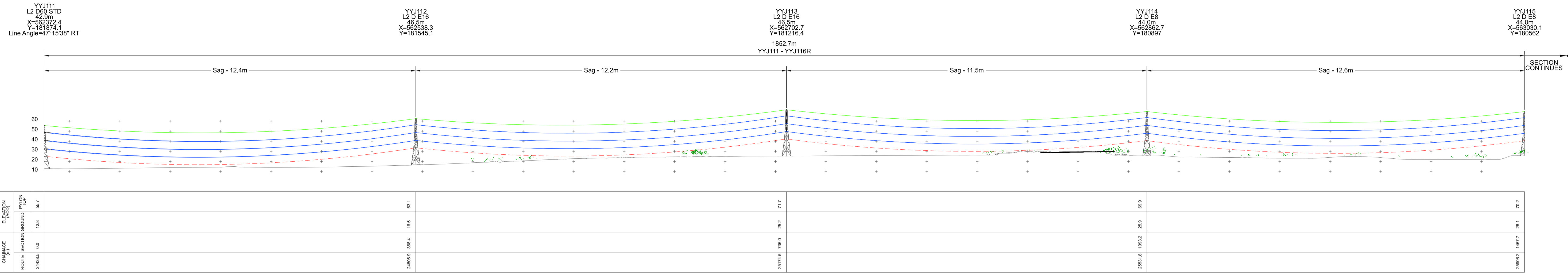
national highways

Client

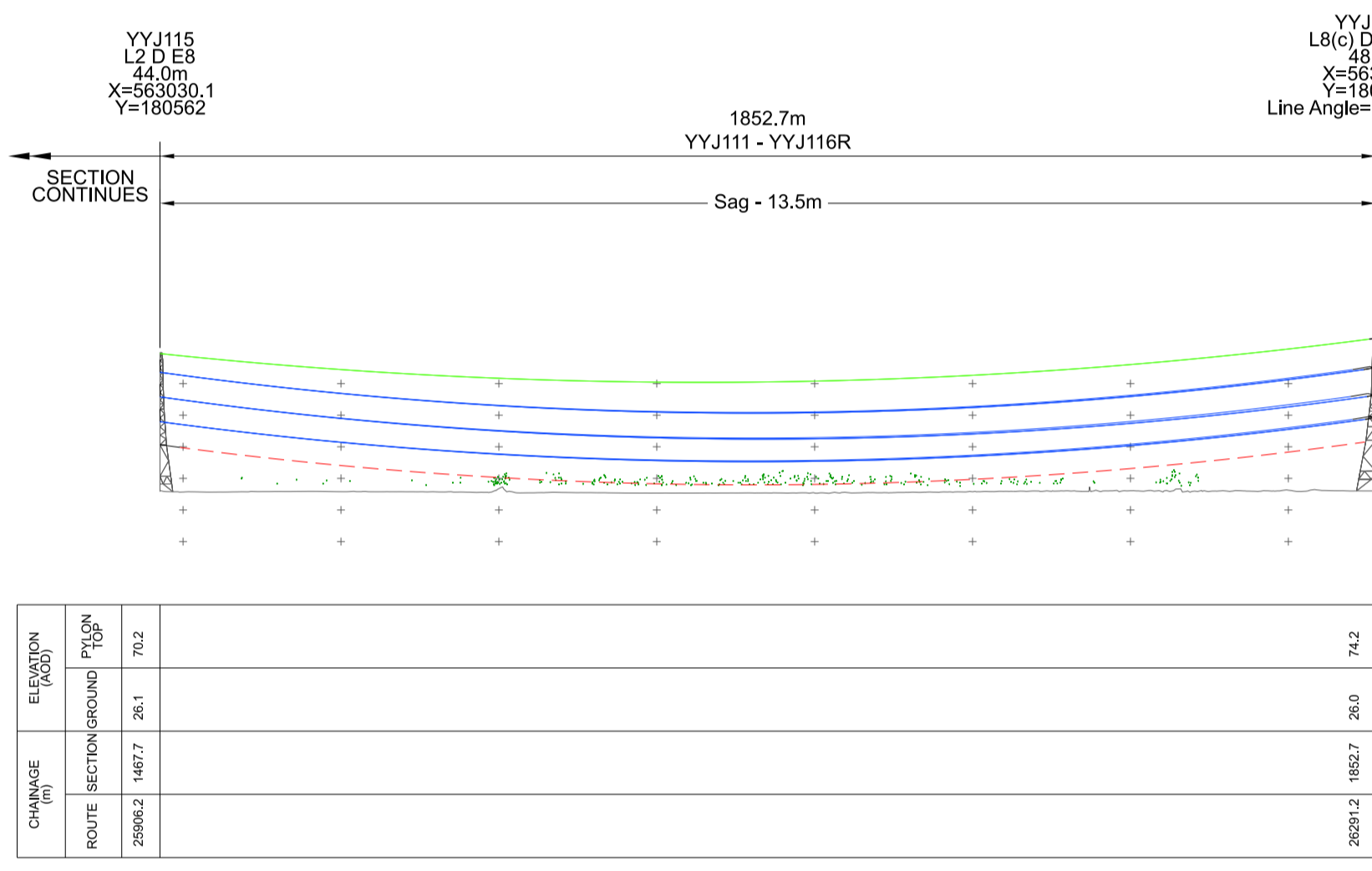
Project

LOWER THAMES CROSSING

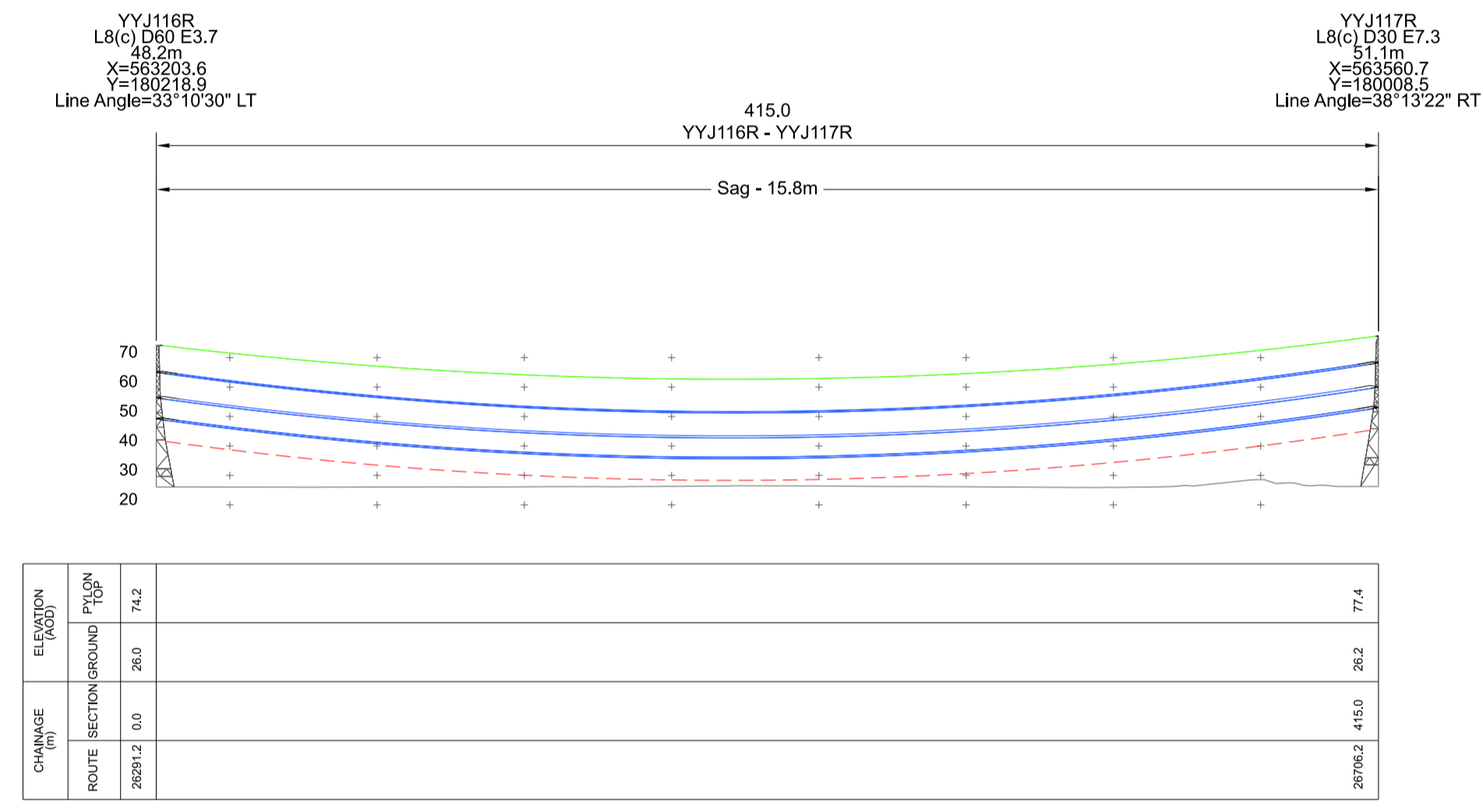
Status	DCO Examination	Original Size	Revision
Application Document Number	TR010032/APP/2.9	A1	P02
Scale	AS SHOWN		
Drawing title	OVERHEAD DIVERSION ROUTE REGULATION 5(2)(o) AND 6(2) SHEET 4		
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10804		



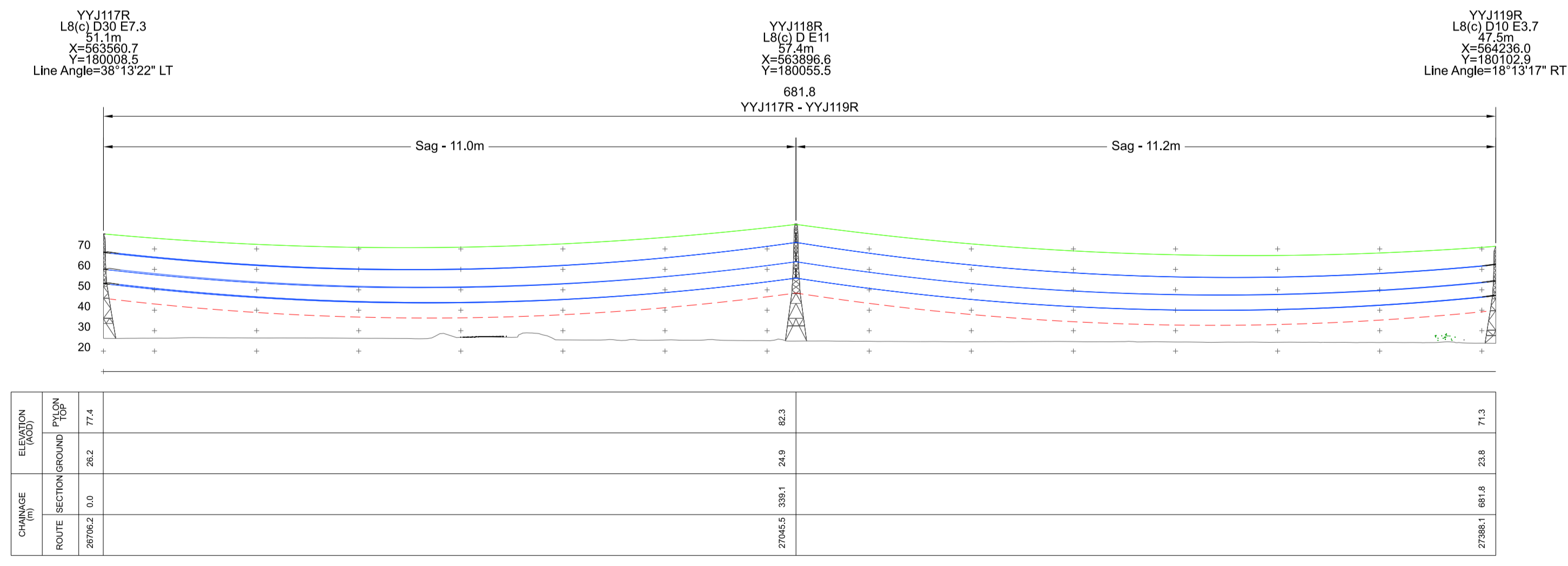
HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE

NOTES:

- The proposed works shown are illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
- These plans should be read in conjunction with Schedule 1 (Authorised Development) of the Development Consent Order (application document reference TR010032/APP/3.1).
- For Environmental details refer to the Environmental Masterplan (application document TR010032/APP/6.2 Fig. 2.4) and environmental Constraints Plan (TR010032/APP/6.2 Fig. 2.3) and associated drawings and documents.
- These plans show engineering earthworks only and landscape earthworks are not shown.
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- All levels are in metres and relate to Ordnance datum unless stated otherwise.

LEGEND:

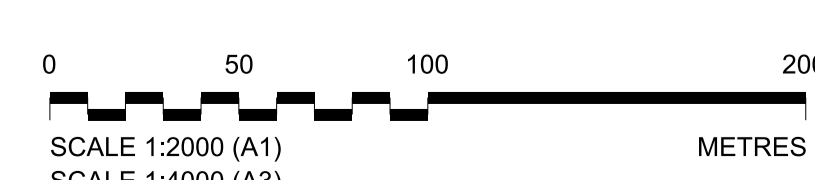
- OPGW Earthwire
- Phase conductor
- Ground clearance line
- Ground Profile
- Vegetation

Pylon Labels:

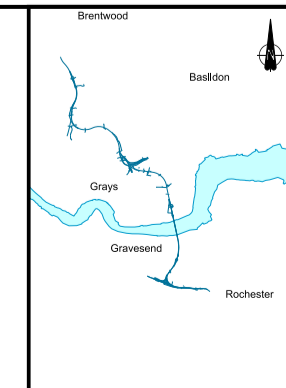
- 4YN45 Pylon designation
- L6 BK D STD Pylon type
- 49.9m Pylon height
- X=567558.701 Pylon position
- Y=171266.26 Pylon deviation
- LT Left
- RT Right

Section Labels:

This drawing illustrates a line profile that is broken down by 'section' between each angle pylon e.g. 4YN45 - 4YN46A. Section length is also given.



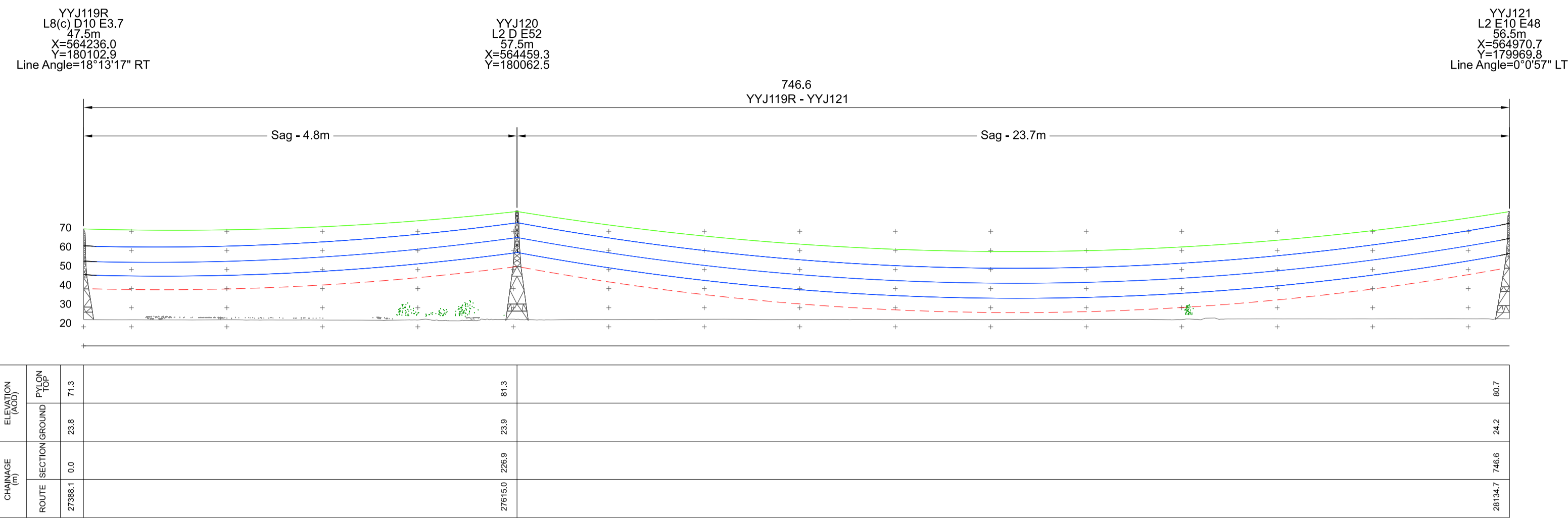
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB



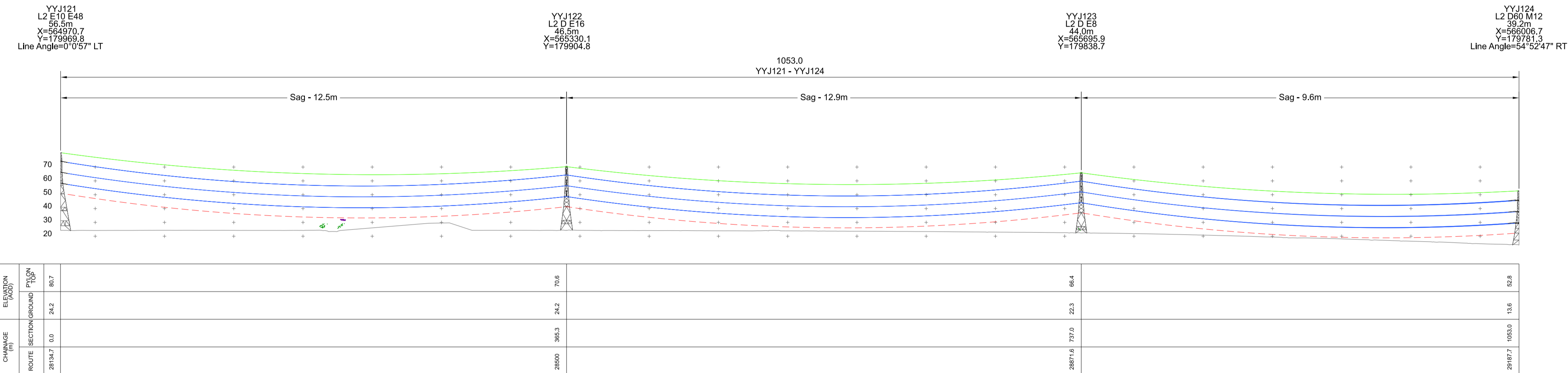
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	Revision
Application Document Number	TR010032/APP/2.9	A1	P02
Drawing title	OVERHEAD DIVERSION ROUTE REGULATION 5(2)(o) AND 6(2) SHEET 5		
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10805		



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE



HORIZONTAL - SCALE 1:2000
VERTICAL - NOT TO SCALE

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB

NOTES:

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- These plans show engineering earthworks only and landscape earthworks are not shown.
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- All levels are in metres and relate to Ordnance datum unless stated otherwise.

LEGEND:

- OPGW Earthwire
- Phase conductor
- Ground clearance line
- Ground Profile
- Vegetation

Pylon Labels:

4YN45
L6 BK D STD
49.9m
X=567558.701
Y=171266.26
Line Angle=00°00'

Pylon designation
Pylon type
Pylon height
Pylon position
Pylon deviation

LT
RT
Left
Right

Section Labels:

This drawing illustrates a line profile that is broken down by 'section' between each angle pylon e.g. 4YN45 - 4YN46A. Section length is also given.

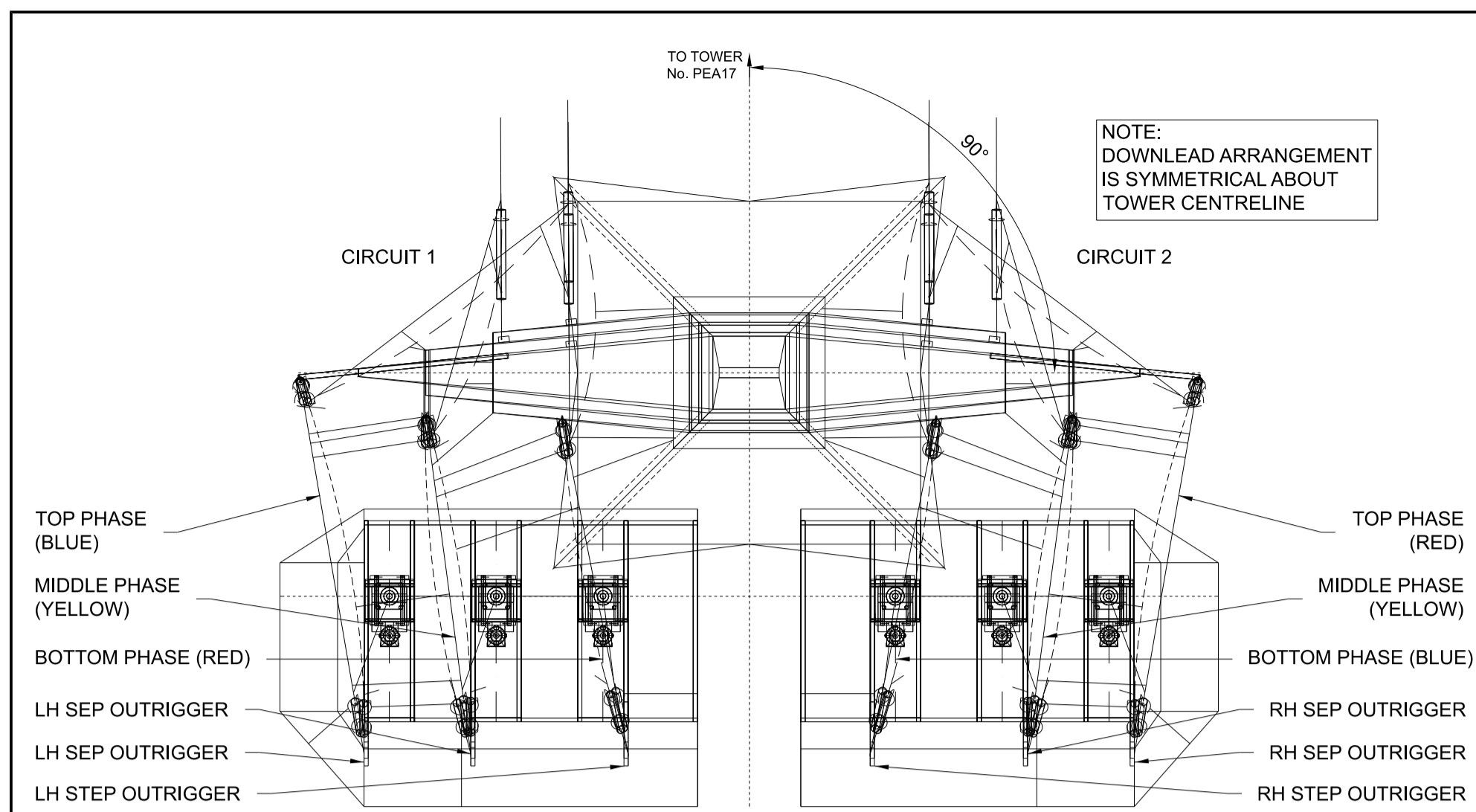
0 50 100 200
SCALE 1:2000 (A1)
SCALE 1:4000 (A3)
METRES



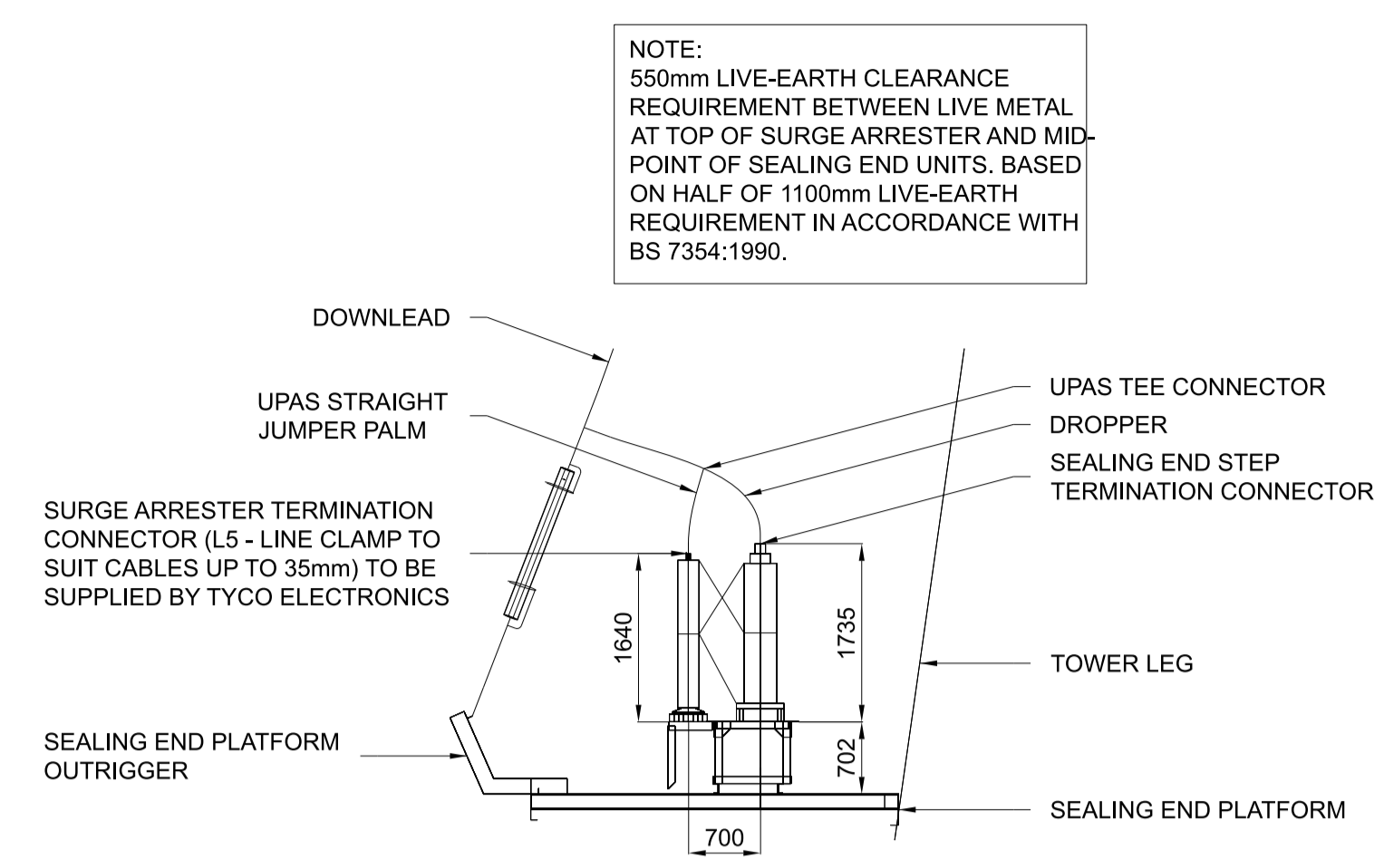
Client: **national highways**

Project: **LOWER THAMES CROSSING**

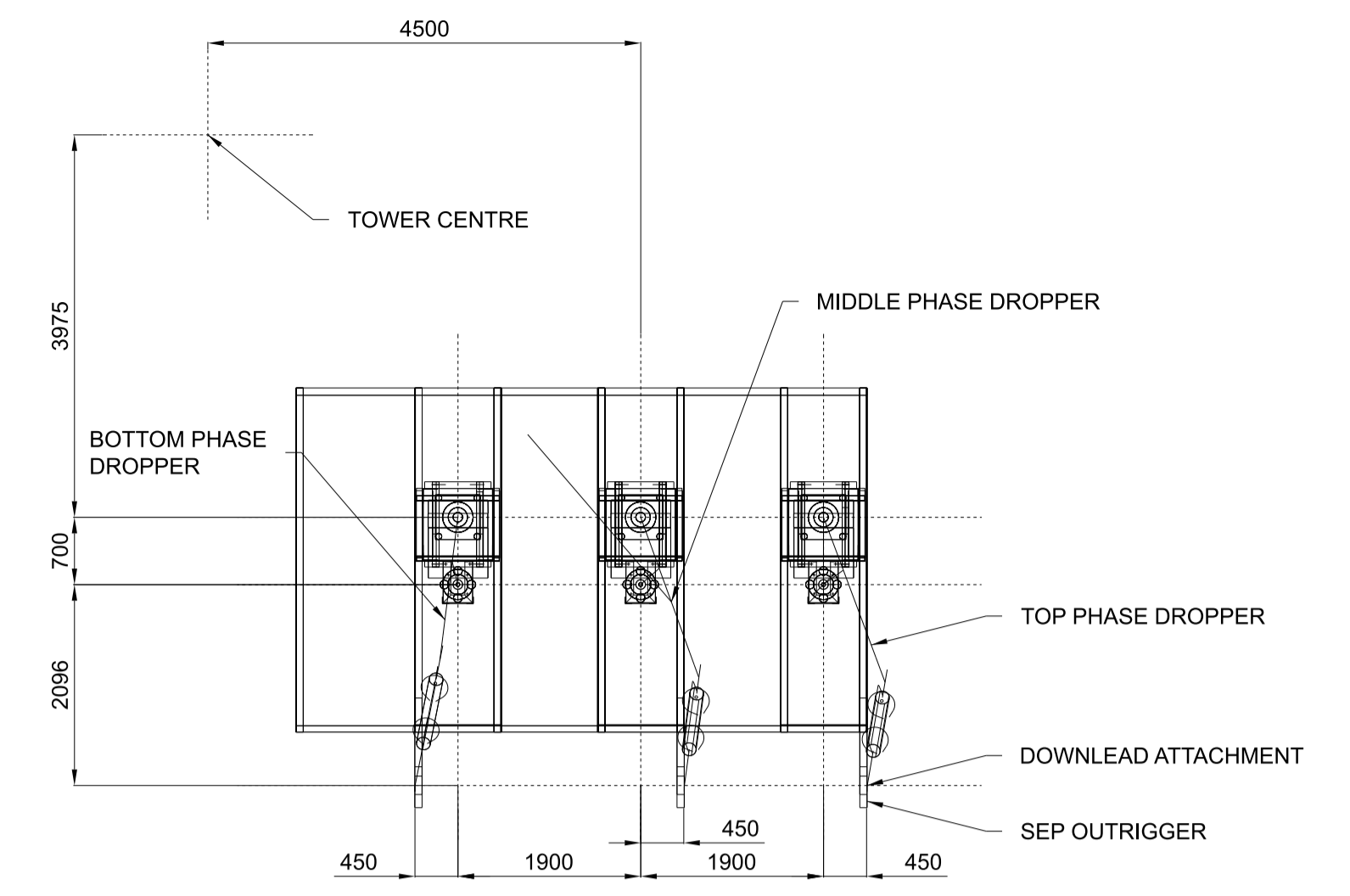
Status	DCO Examination	Original Size	Revision
Application Document Number	TR010032/APP/2.9	A1	P02
Drawing title	OVERHEAD DIVERSION ROUTE REGULATION 5(2)(o) AND 6(2) SHEET 6		
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10806		



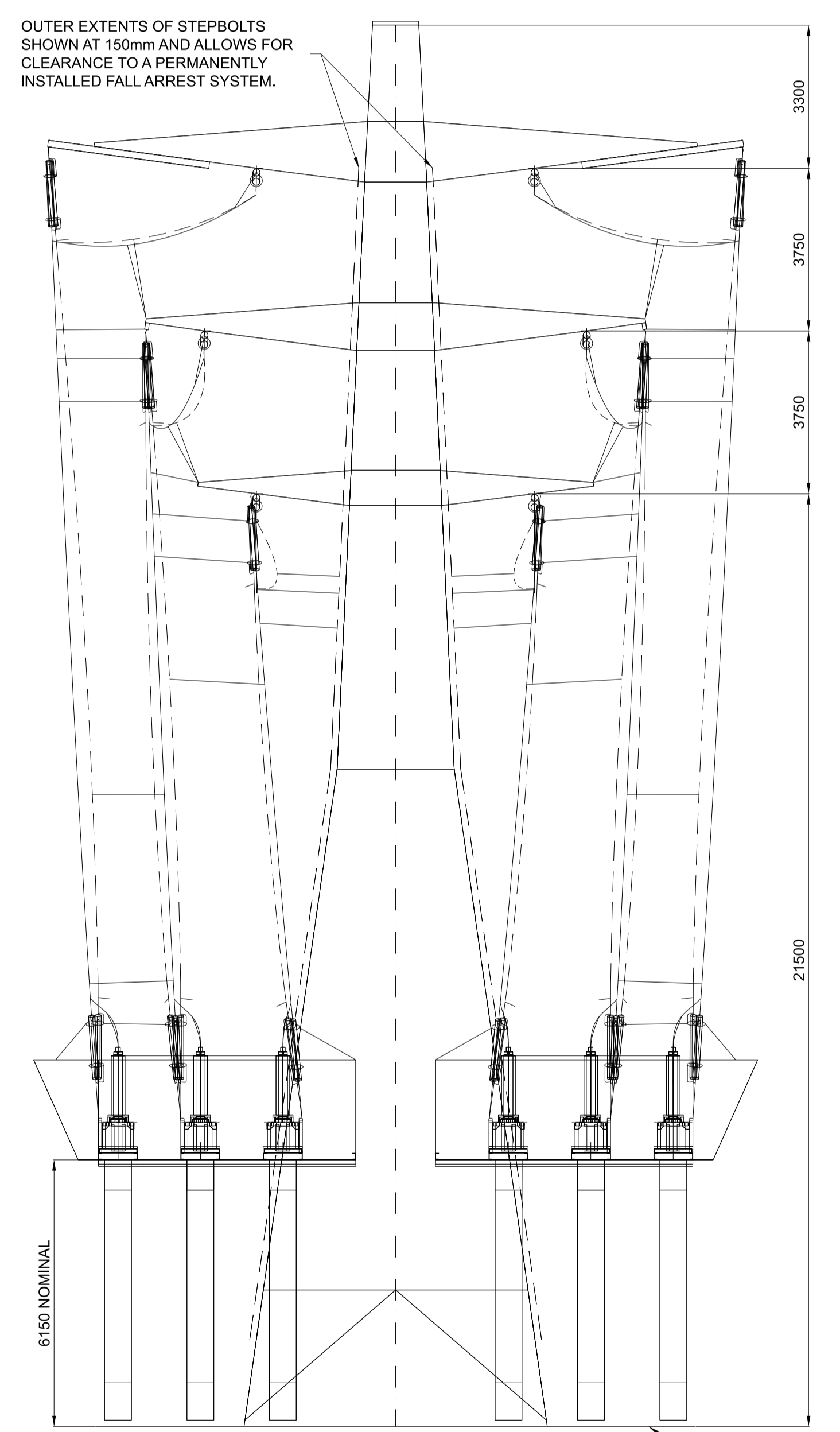
PLAN
1:100



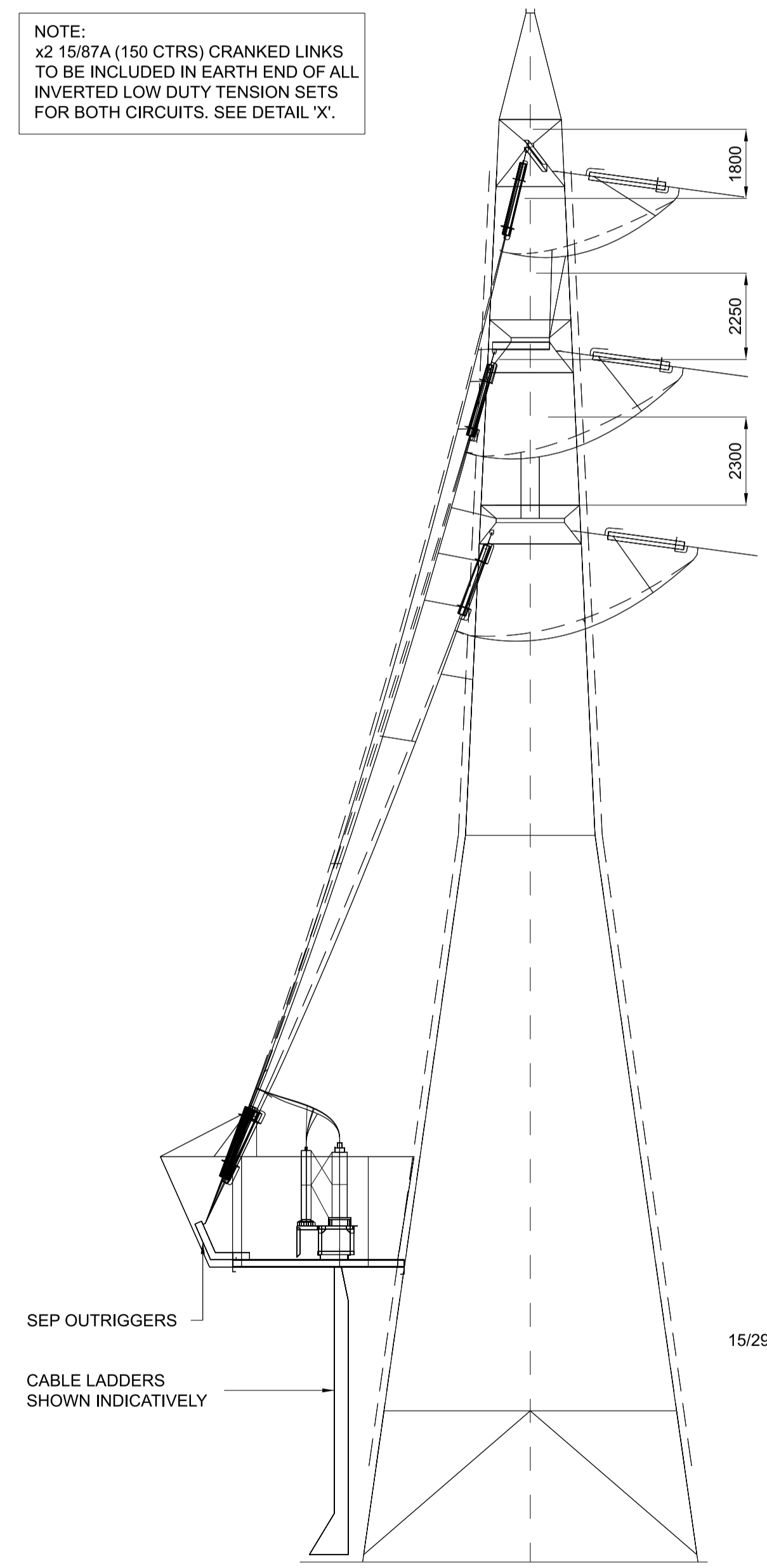
TYPICAL ENLARGED VIEW OF SEALING
END AND SURGE ARRESTERS
1:100



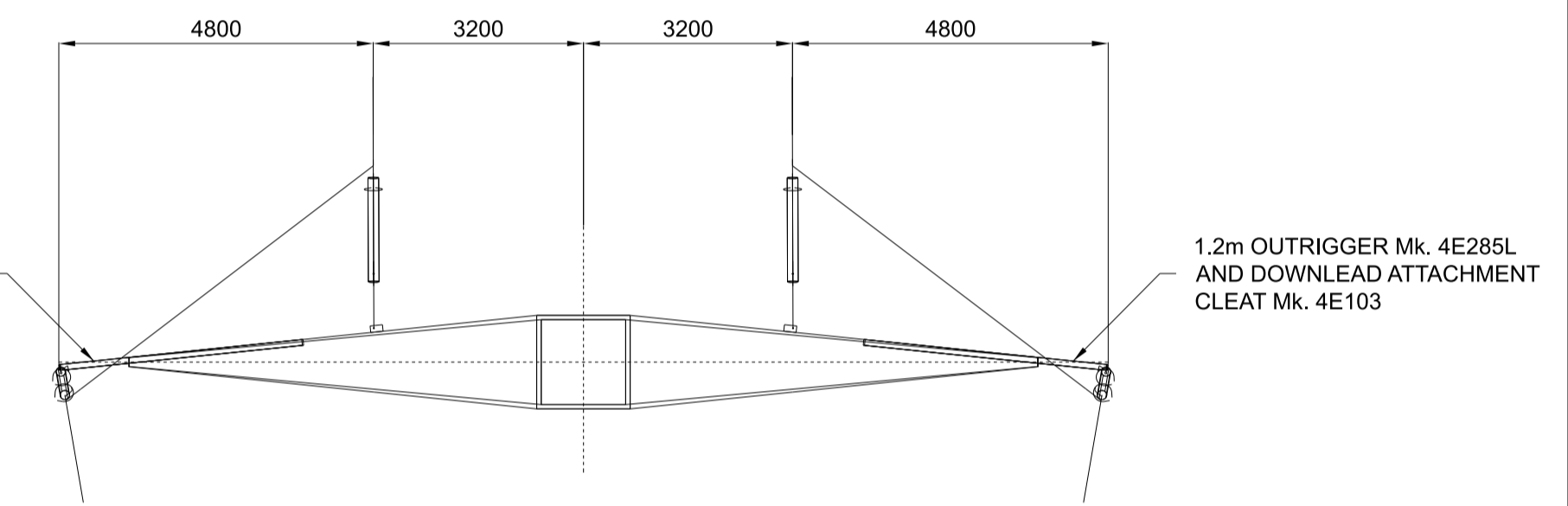
ENLARGED PLAN ON
SEALING END PLATFORM
1:100



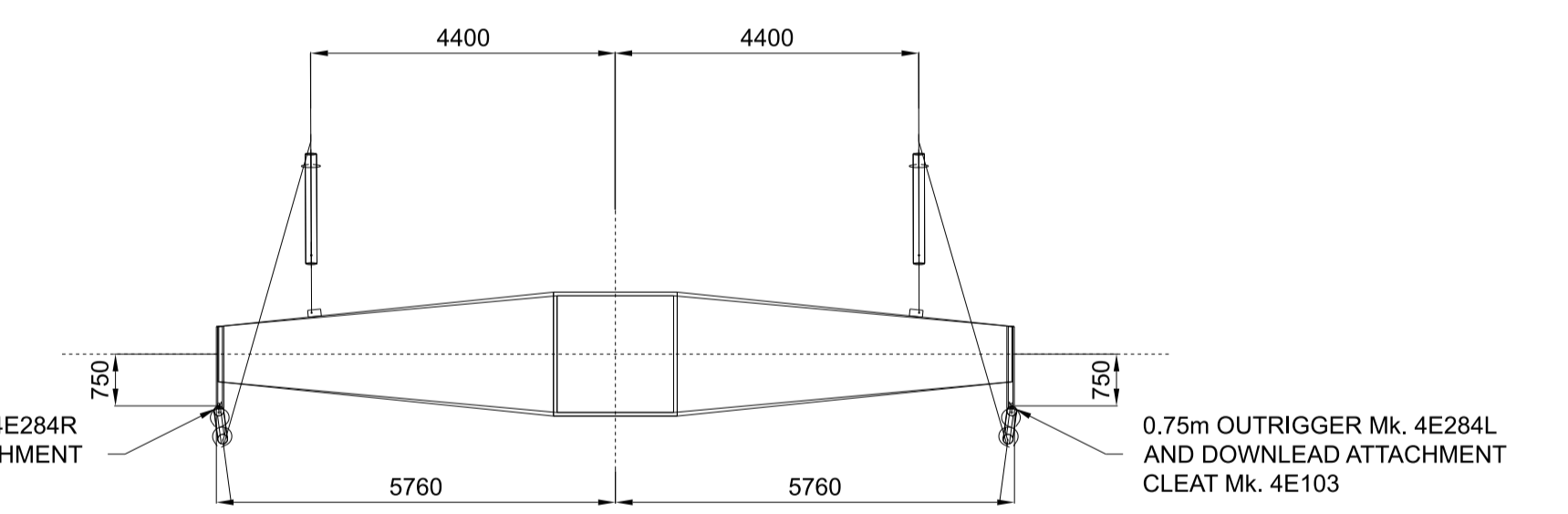
TRANSVERSE ELEVATION
1:100



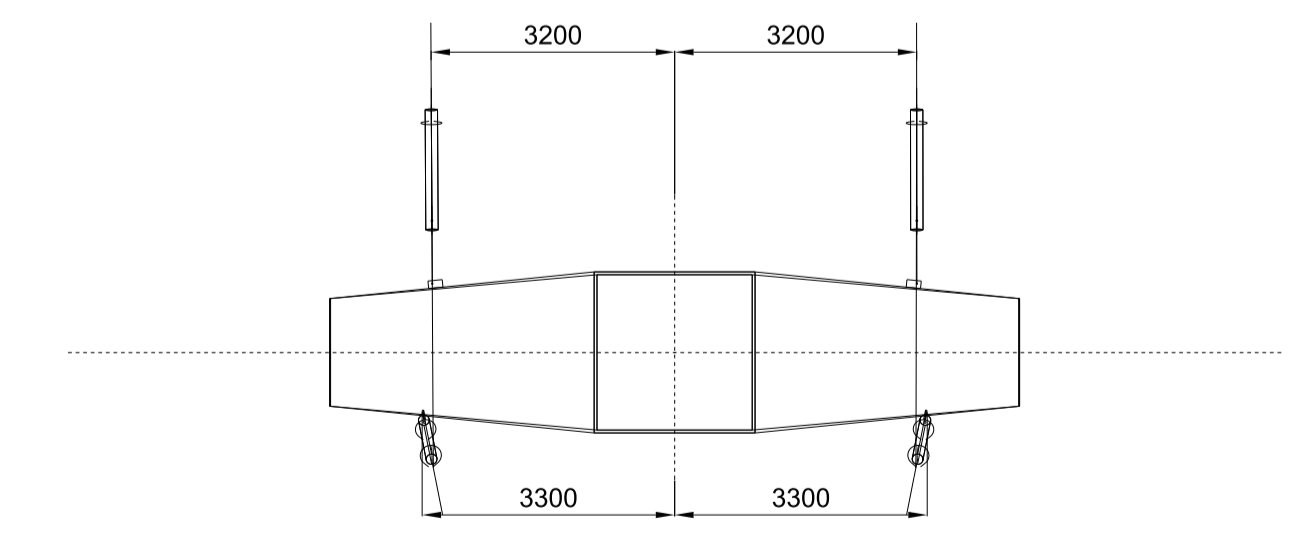
LONGITUDINAL ELEVATION
1:100



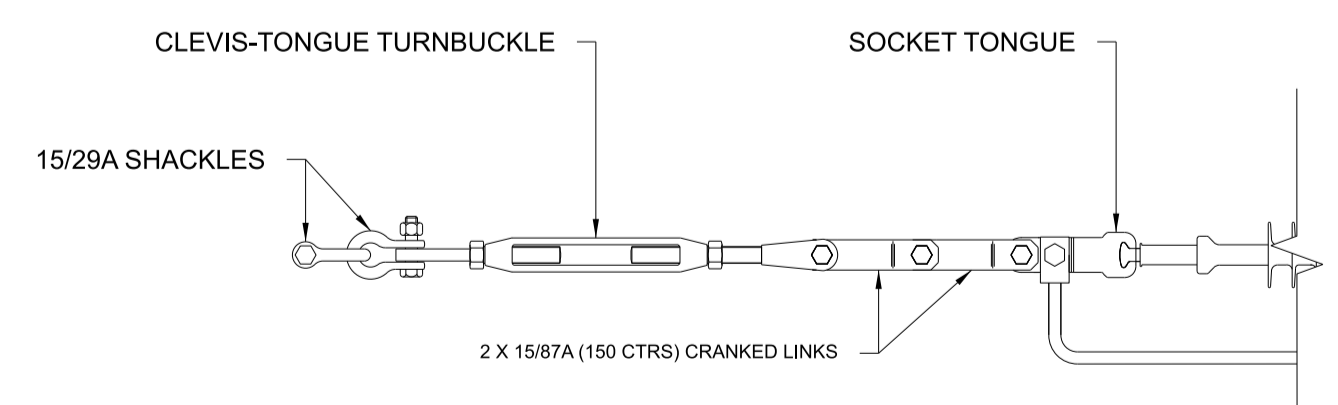
PLAN ON TOP CROSSARMS
1:100



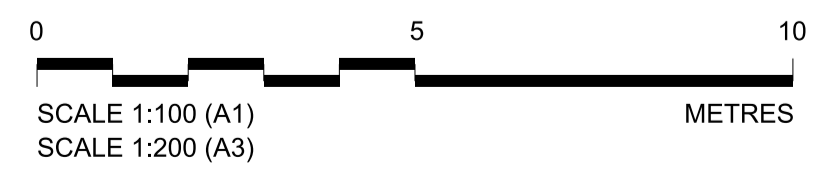
PLAN ON MIDDLE CROSSARMS
1:100



PLAN ON BOTTOM CROSSARMS
1:100



DETAIL X
1:100



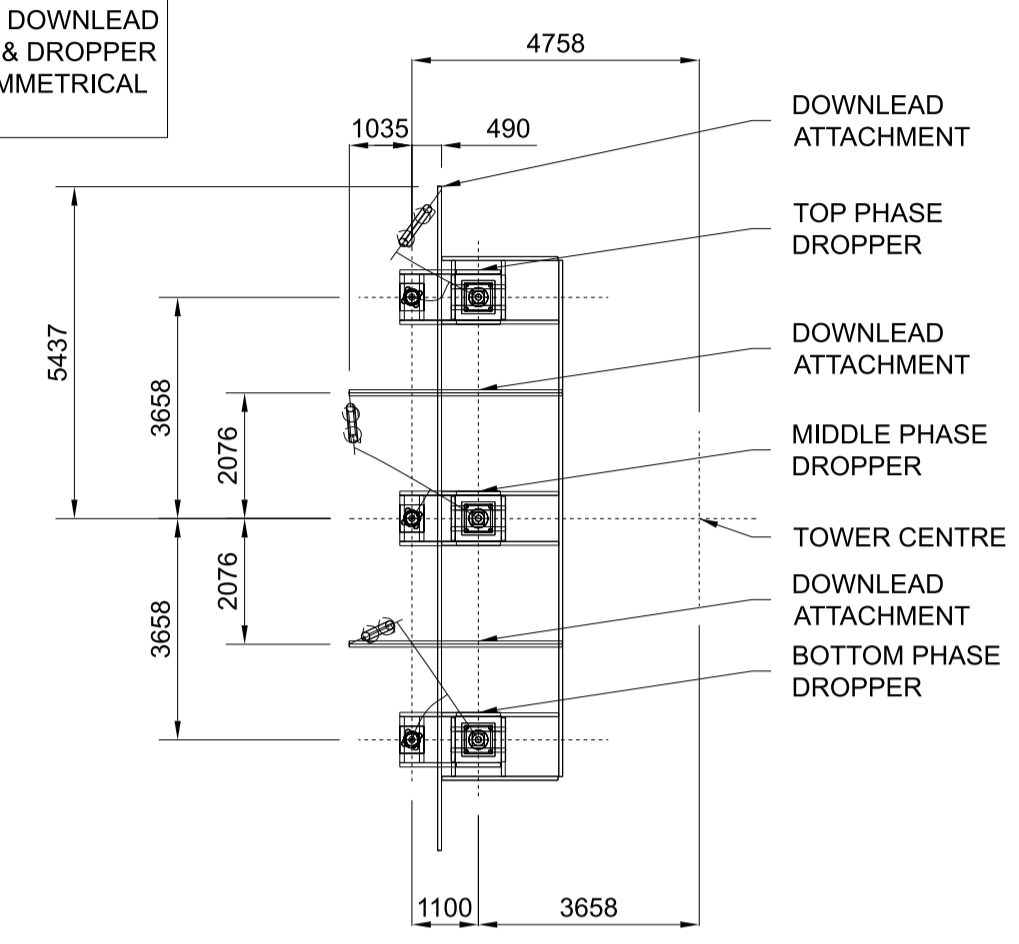
Contains Ordnance Survey data. © Crown copyright and database rights 2023. Ordnance Survey 100030649						
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

NOTES:
 1. The proposed design of the structure shown is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
 2. All dimensions are in millimetres unless stated otherwise.
 3. This is the assumed pylon type for pylon PE16R however is subject to change at detailed design.

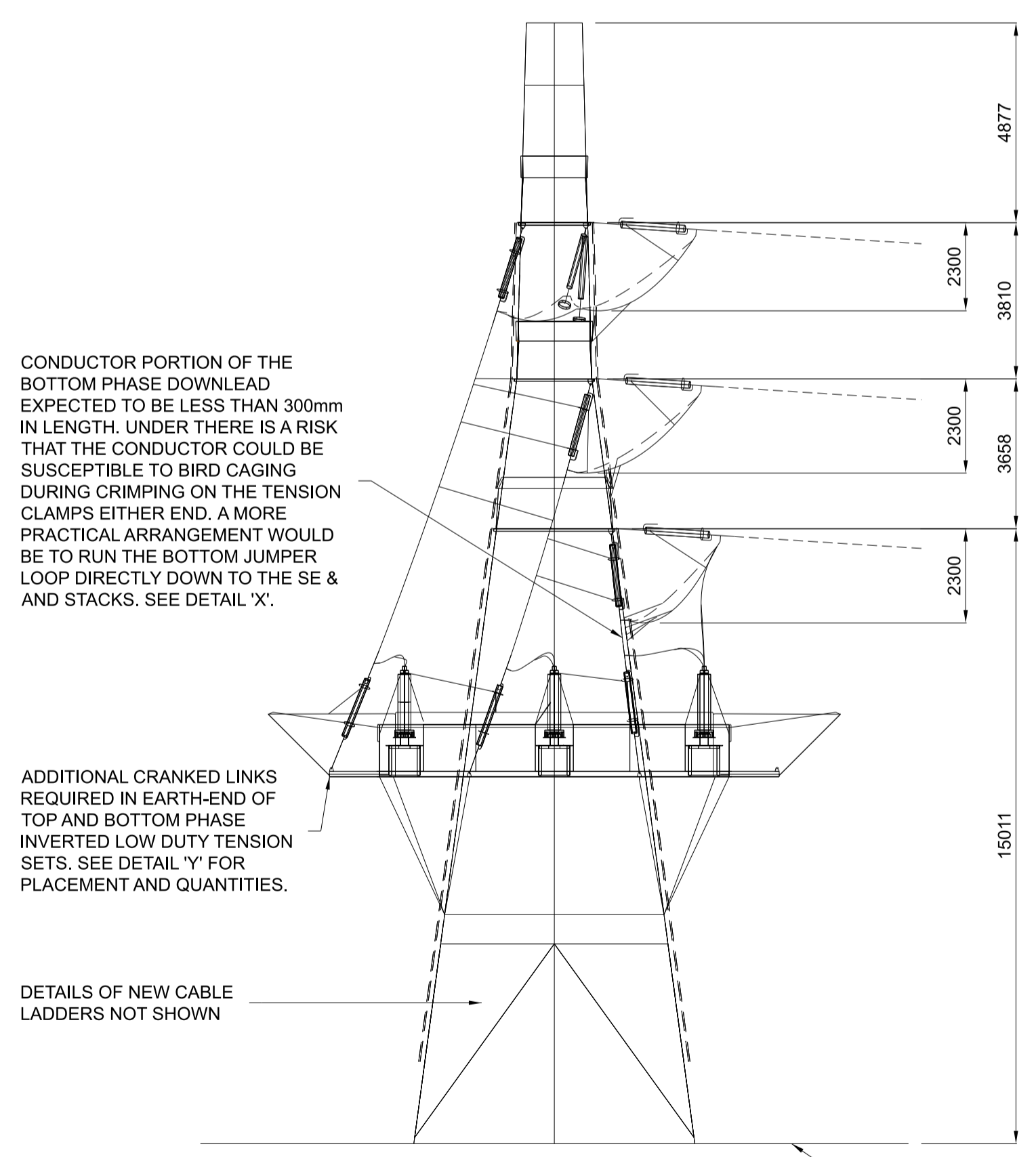
Client
national highways
 Project
LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	PYLON GENERAL ARRANGEMENT REGULATION 5(2)(o) AND 6(2) SHEET 1				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10807				

NOTE:
TOWER, DOWNLEADS, JUMPERS AND STONEGUARD OMITTED FOR CLARITY.
SEALING END PLATFORM, DOWNLEAD ATTACHMENT POSITIONS & DROPPER ARRANGEMENTS ARE SYMMETRICAL ABOUT TOWER CENTRE.



PLAN ON SEALING END PLATFORM
1:100

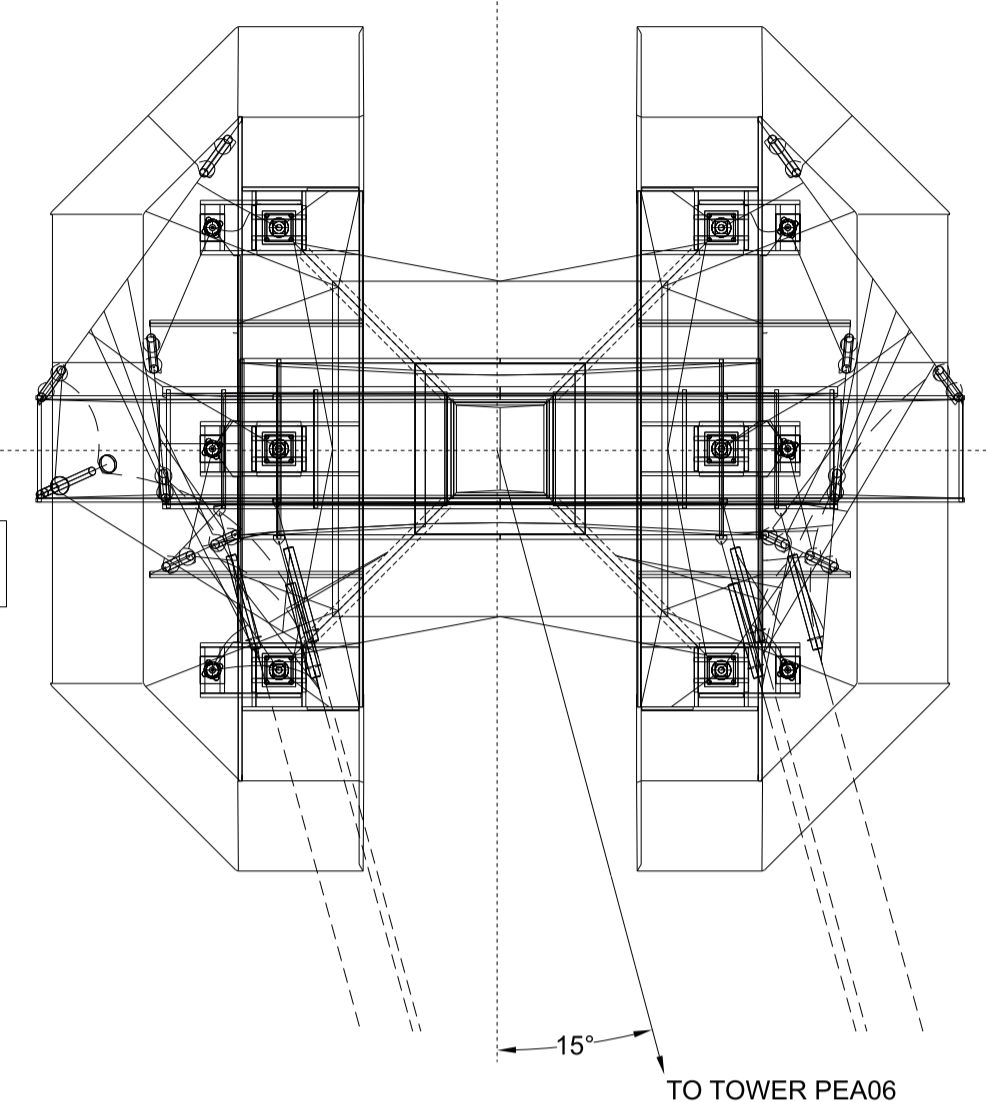


LONGITUDINAL ELEVATION SHOWING TILBURY SHELL CIRCUIT 1 ONLY
1:100

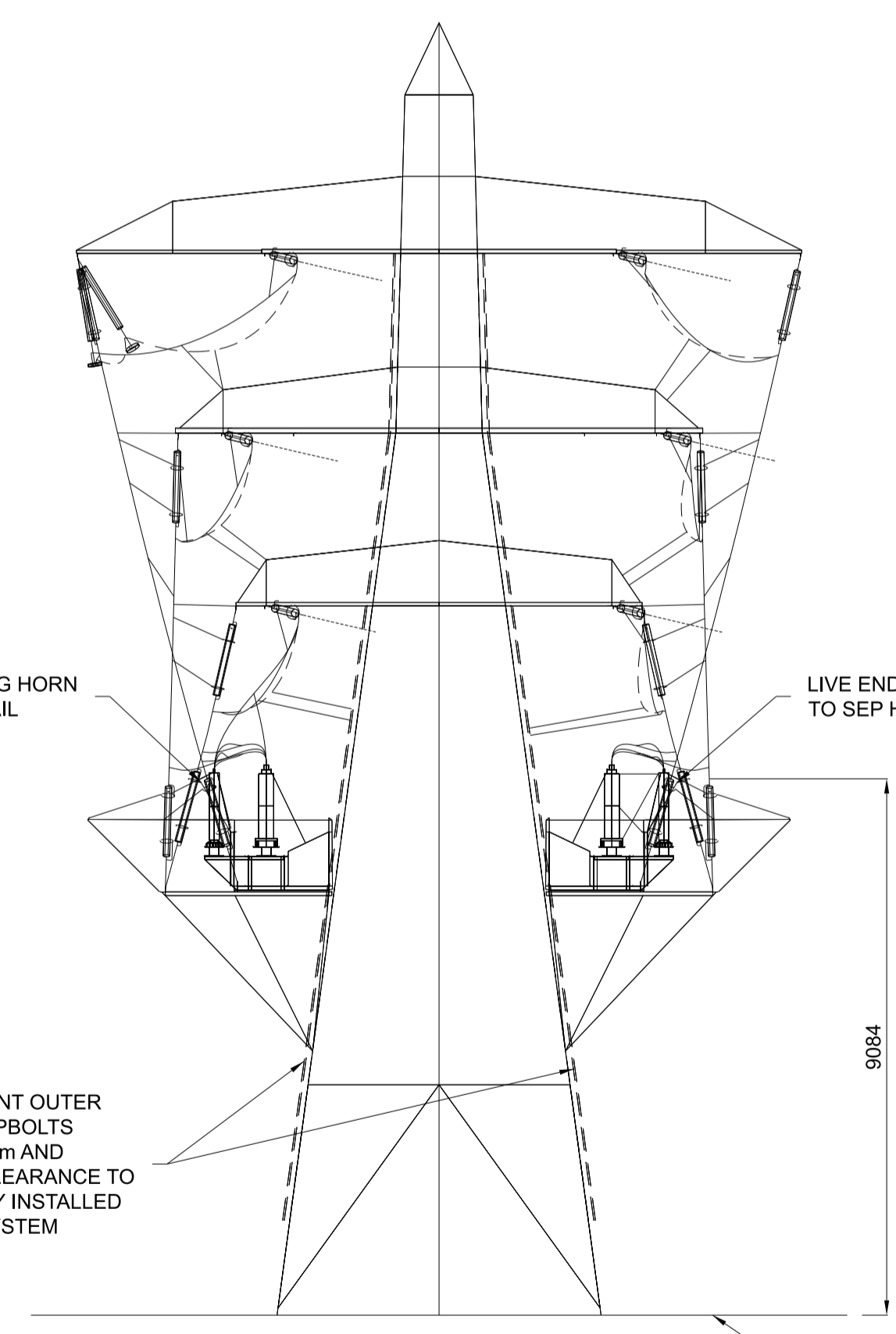
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB

NOTES:
1. The proposed design of the structure shown is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
2. All dimensions are in millimetres unless stated otherwise.
3. This is the assumed pylon type for pylon PEA07 however is subject to change at detailed design.

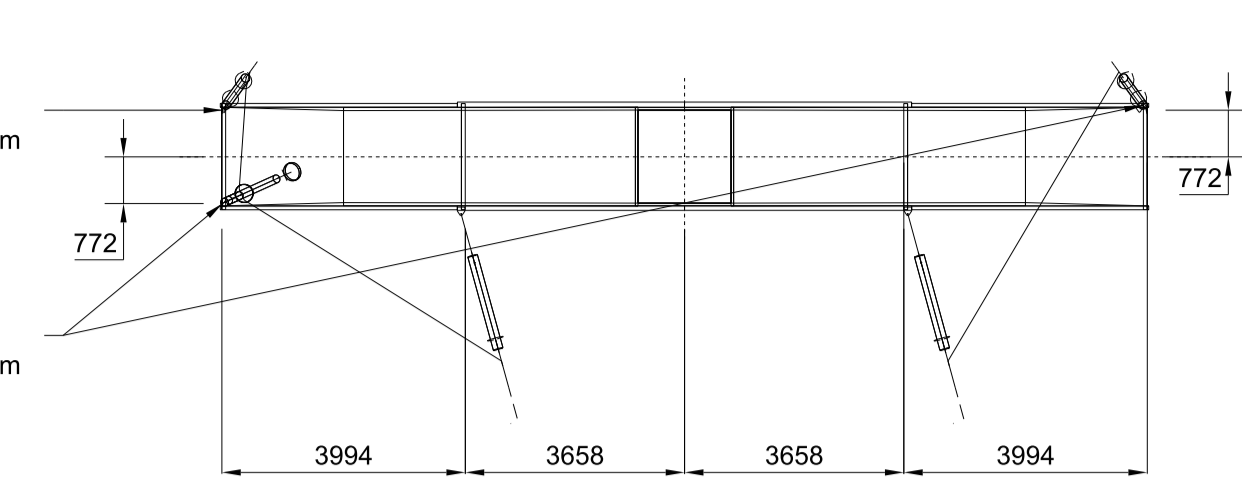
NOTE:
ALL NEW DOWNLEAD AND PILOT SET VERTICAL ATTACHMENT PLATES TO BE FITTED TO THE LONGITUDINAL FACE OF EACH CROSSARM END (AS PER SECTION A-A OF BK35/23261 [XM2092-44]).
PLATES SHOULD BE INSTALLED WITH THE BEND TOWARDS THE TOWER BODY ON THE TOP CROSSARM AND AWAY FROM THE TOWER BODY ON THE MIDDLE AND BOTTOM CROSSARMS.



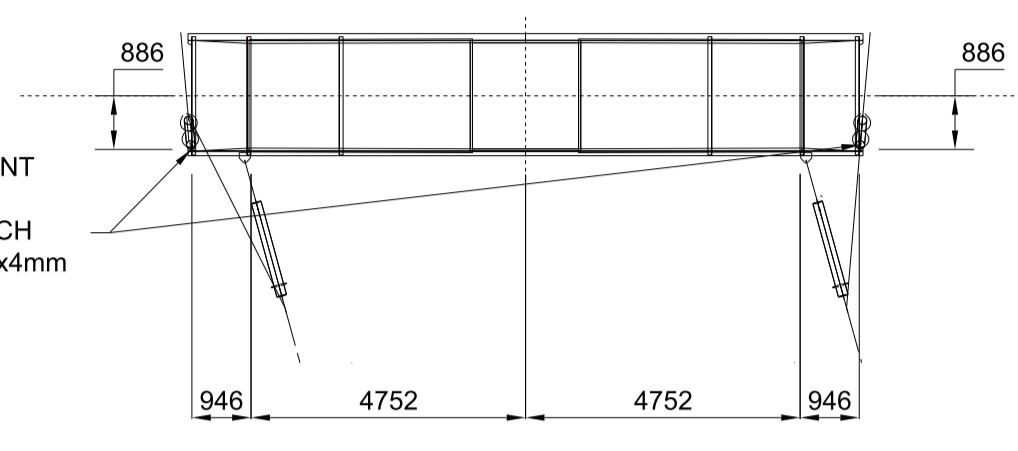
PLAN
1:8



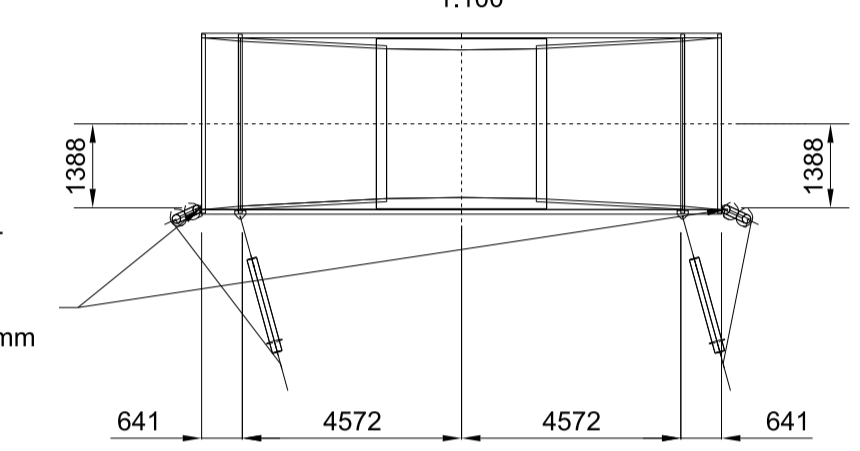
TRANSVERSE ELEVATION
1:100



PLAN ON TOP CROSSARMS
1:100

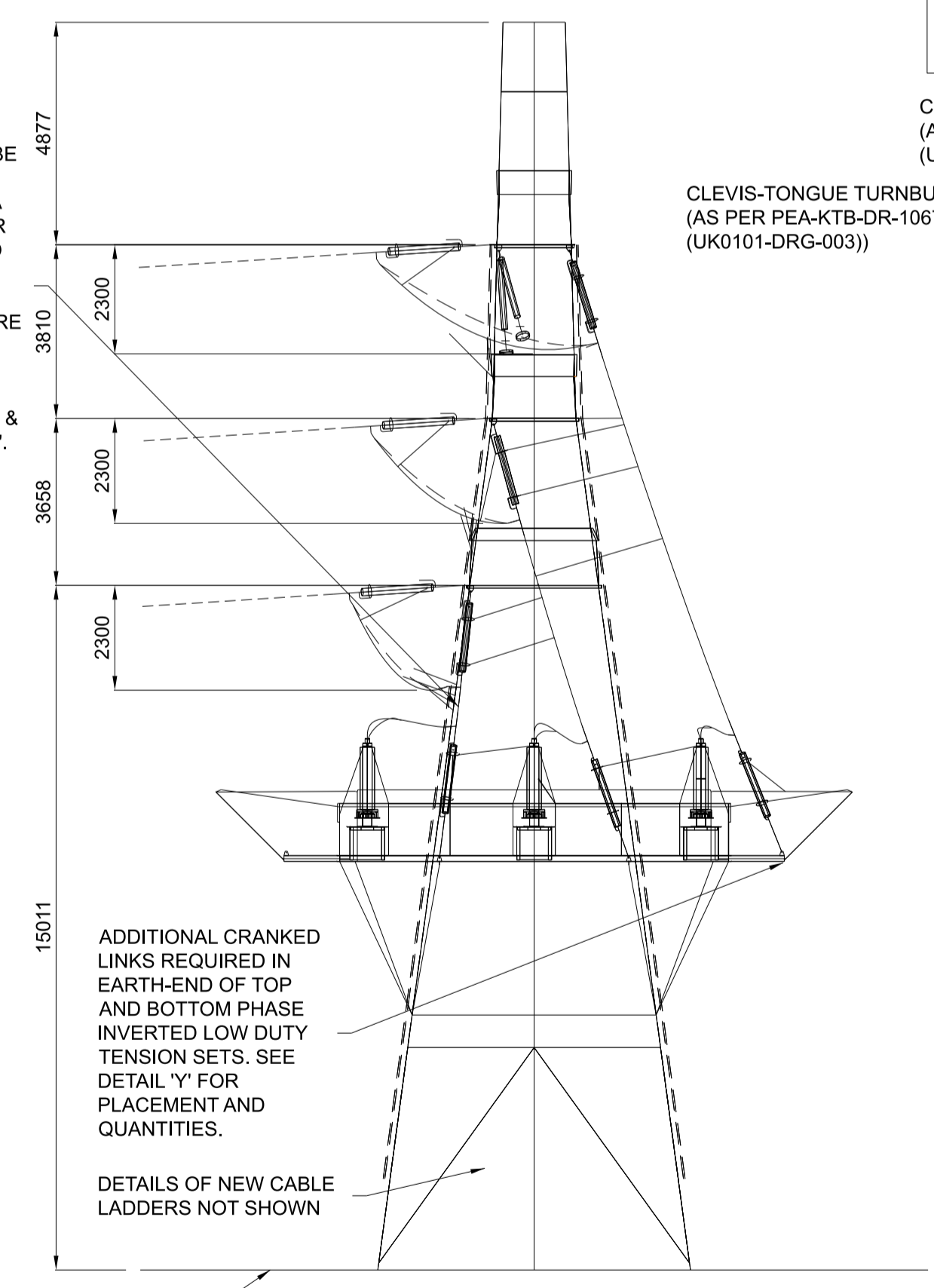


PLAN ON MIDDLE CROSSARMS
1:100

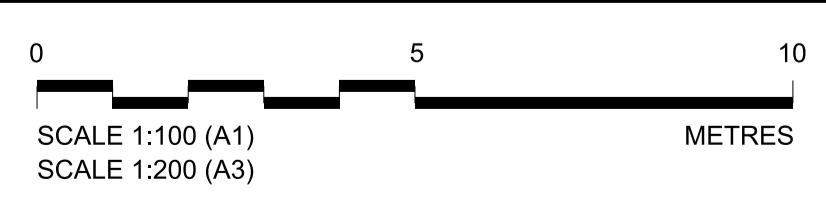


PLAN ON BOTTOM CROSSARMS
1:100

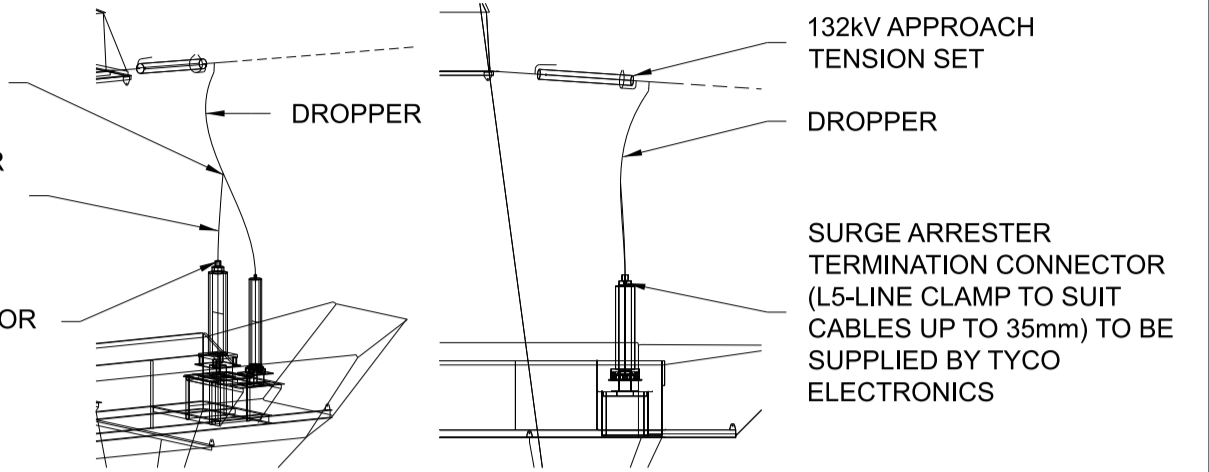
CONDUCTOR PORTION OF THE BOTTOM PHASE DOWNLEAD EXPECTED TO BE LESS THAN 300mm IN LENGTH, UNDER THERE IS A RISK THAT THE CONDUCTOR COULD BE SUSCEPTIBLE TO BIRD CAGING DURING CRIMPING ON THE TENSION CLAMPS EITHER END. A MORE PRACTICAL ARRANGEMENT WOULD BE TO RUN THE BOTTOM JUMPER LOOP DIRECTLY DOWN TO THE SE & AND STACKS. SEE DETAIL 'X'.



LONGITUDINAL ELEVATION SHOWING TILBURY SHELL CIRCUIT 2 ONLY
1:100

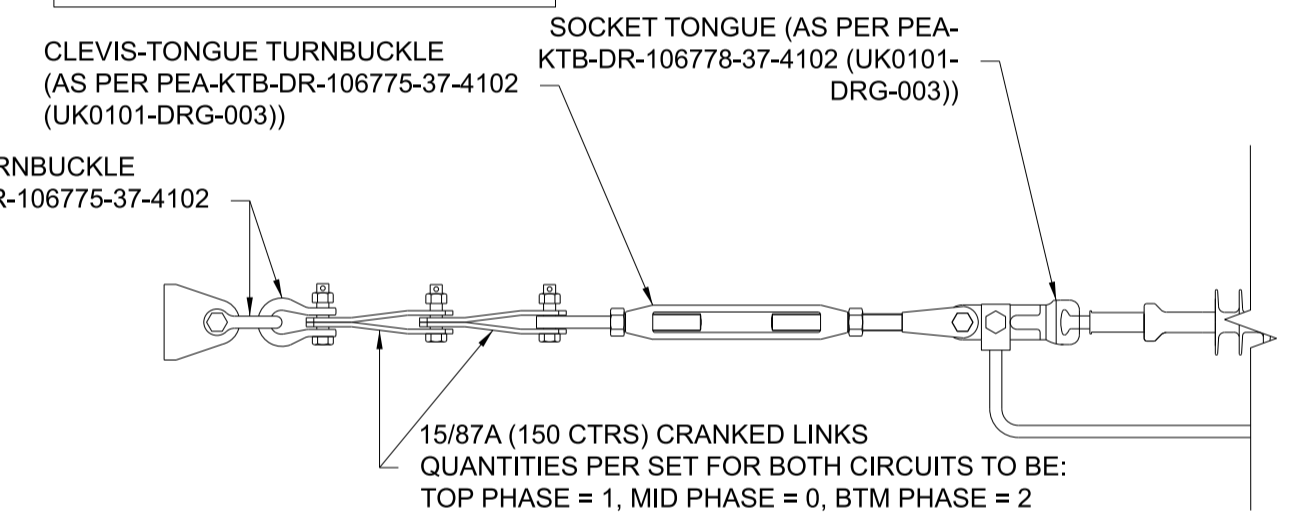


NOTE:
FOR BOTTOM PHASE ONLY, THE JUMPER, DOWNLEAD, UPRIGHT AND INVERTED LOW DUTY SETS ARE REPLACED WITH AN ALTERNATIVE ARRANGEMENT THAT CONNECTS THE MAINLINE INSULATORS DIRECTLY TO THE SURGE ARRESTER/SEALING END.
ALTERNATIVE DROPPER ARRANGEMENT REMOVES THE NEED FOR A BOTTOM PHASE DOWNLEAD, JUMPER, UPRIGHT AND INVERTED LOW-DUTY INSULATOR SETS.
CLEARANCES HAVE BEEN VERIFIED FOR THE ALTERNATIVE ARRANGEMENT.

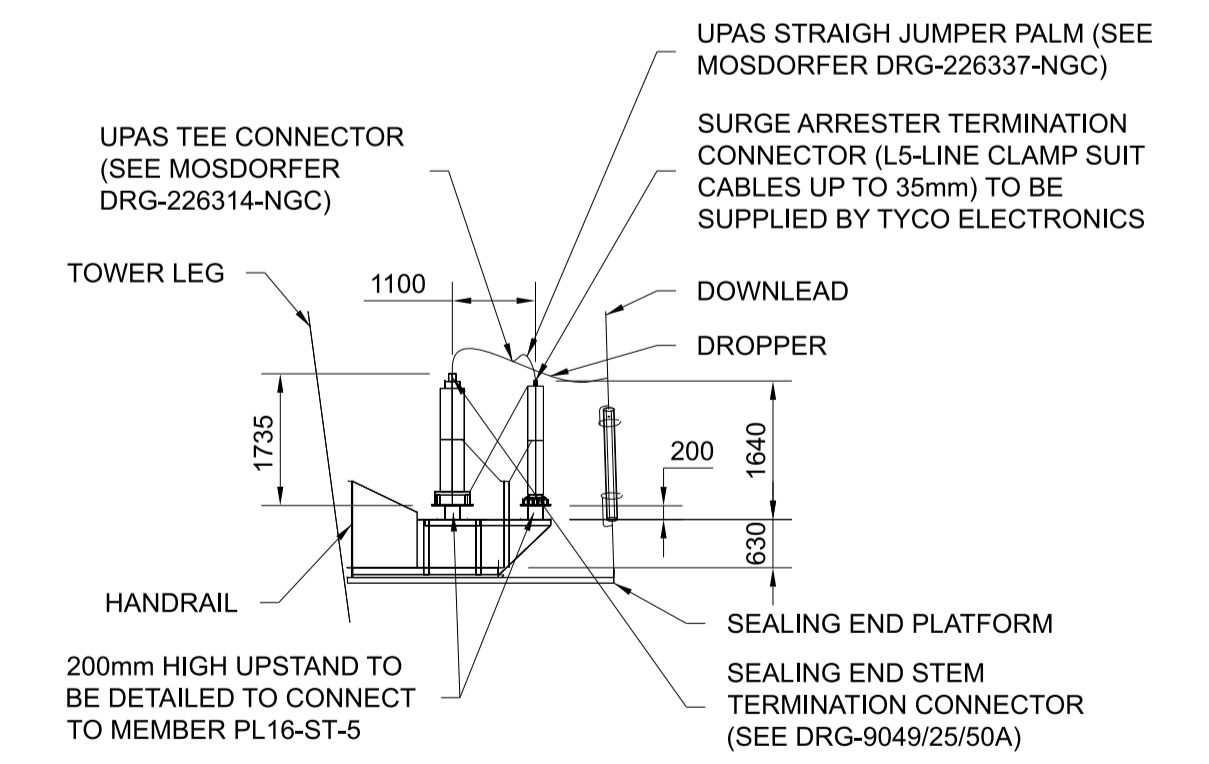


DETAIL X
ALTERNATIVE BOTTOM PHASE DROPPER ARRANGEMENT SHOWING CIRCUIT 1 ONLY
1:100

NOTE:
ADDITIONAL FITTINGS REQUIRED IN EARTH-END OF INVERTED LOW DUTY TENSION SETS



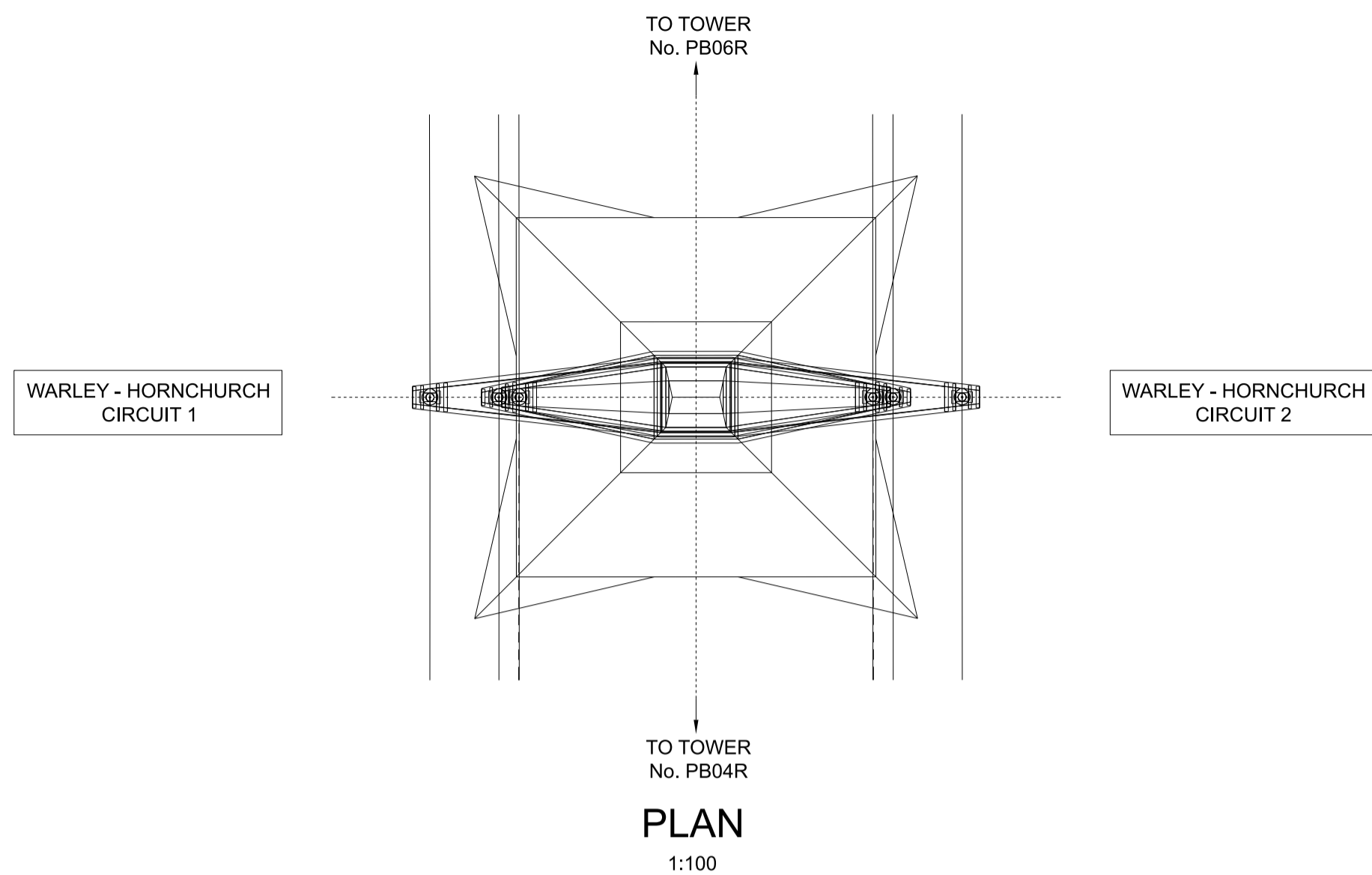
DETAIL Y
1:100



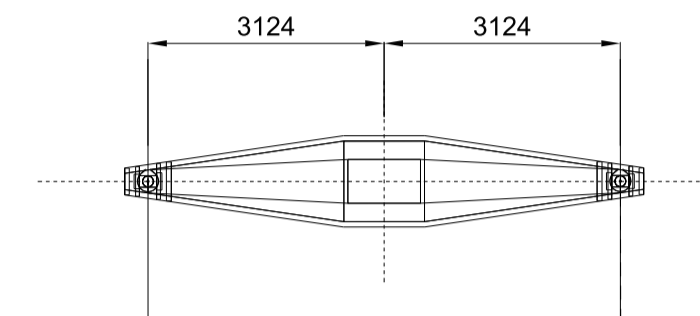
DETAIL Z
TYPICAL ENLARGED VIEW OF SEALING END AND SURGE ARRESTERS
1:100

Client
national highways
Project
LOWER THAMES CROSSING

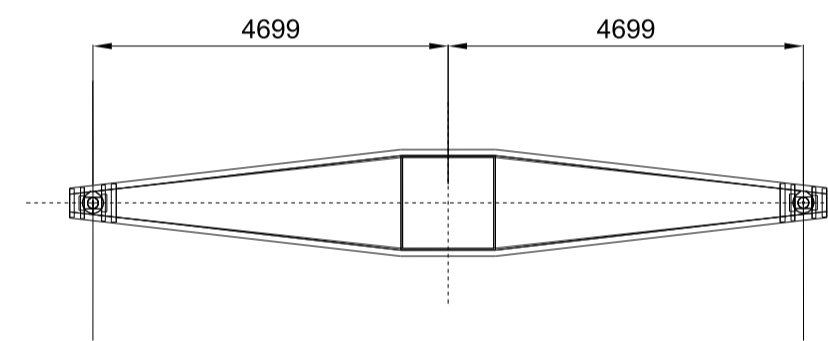
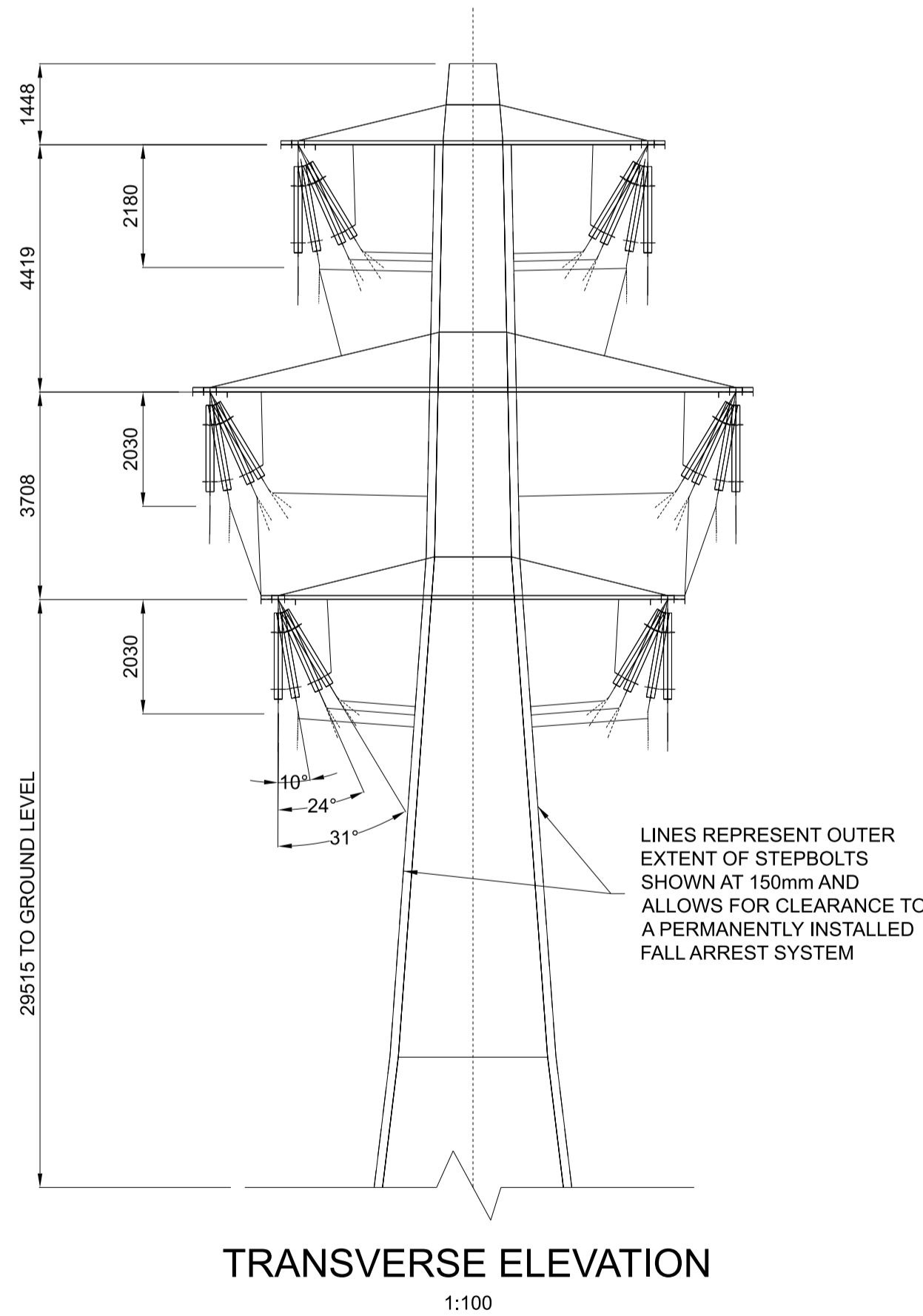
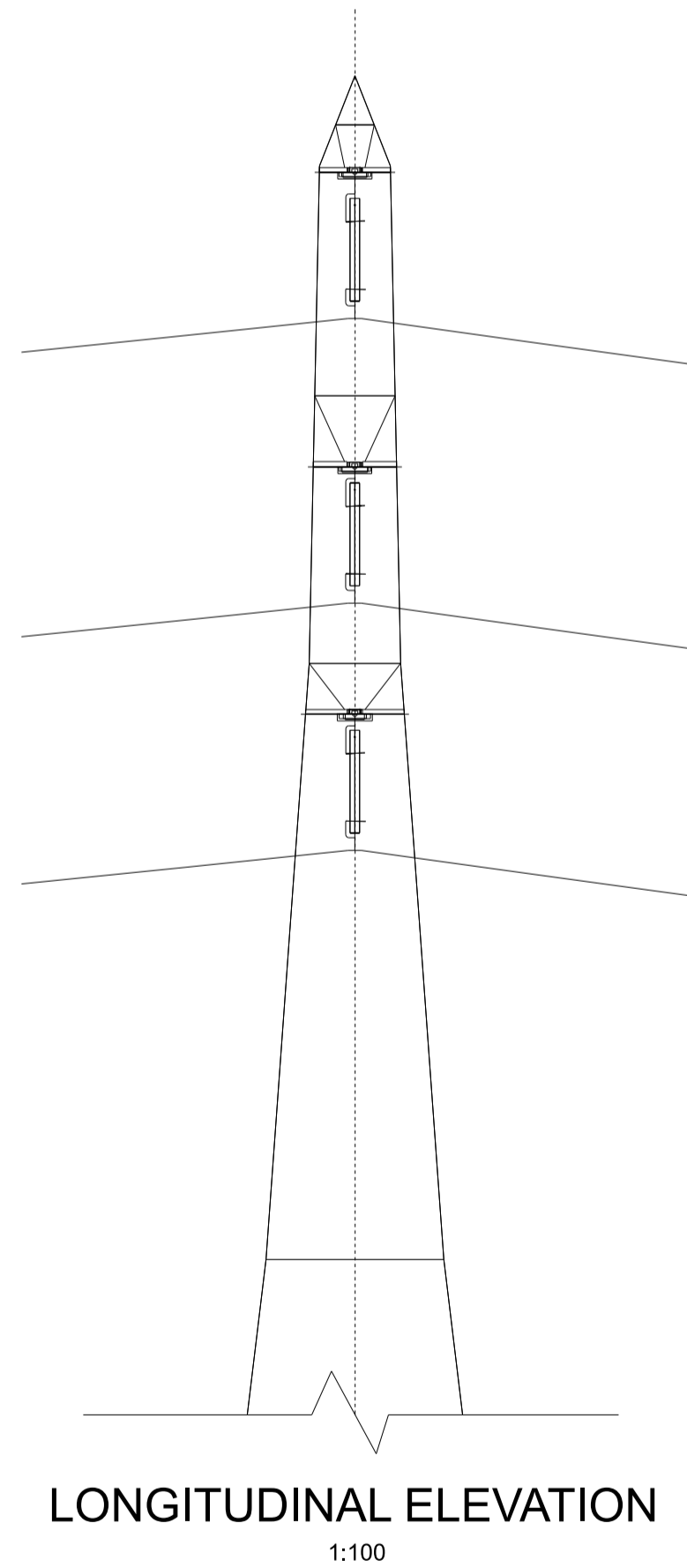
Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	PYLON GENERAL ARRANGEMENT REGULATION 5(2)(o) AND 6(2) SHEET 2				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10808				



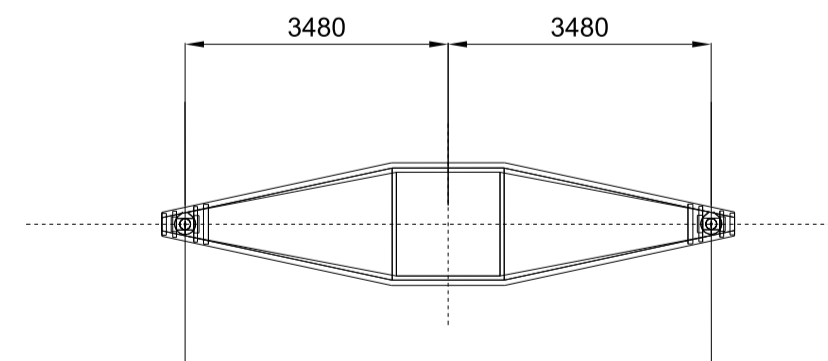
NOTE:
x1 28/87 CRANKED LINK TO BE USED ON TOP PHASES ONLY. AS PER DRAWING PB-KTB-DR-106778-37-4001 (UK0103-DRG-002)



PLAN ON TOP CROSSARMS
1:100



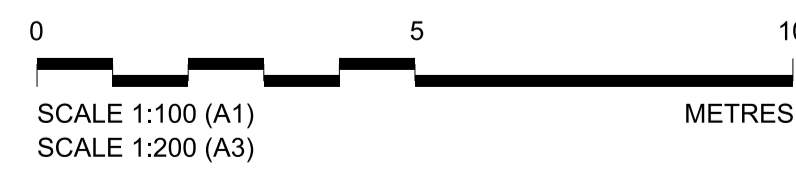
PLAN ON MIDDLE CROSSARMS
1:100



PLAN ON BOTTOM CROSSARMS
1:100

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P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd

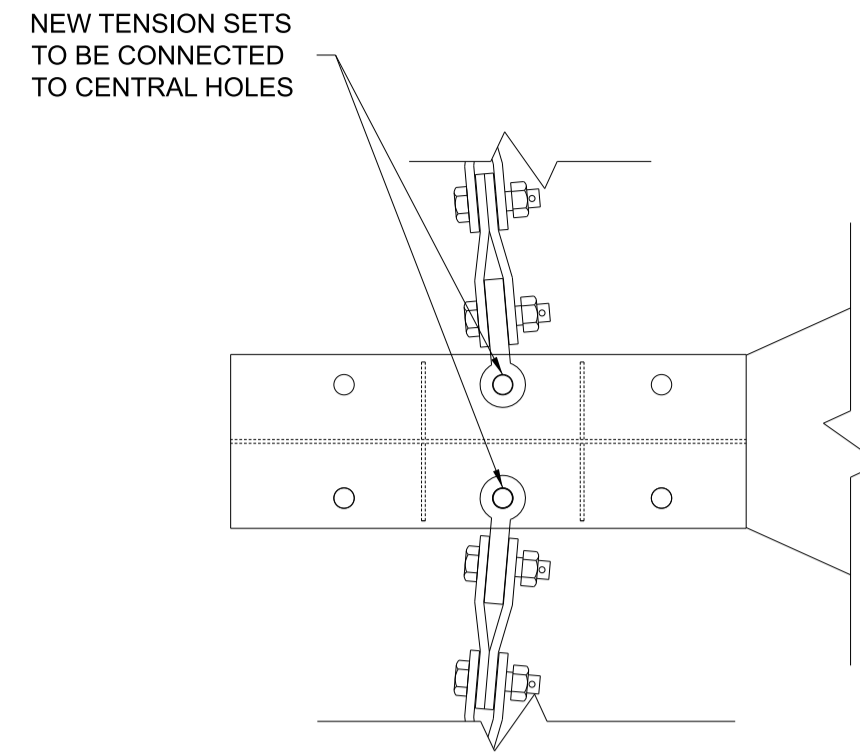
NOTES:
1. The proposed design of the structure shown is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
2. All dimensions are in millimetres unless stated otherwise.
3. This is the assumed pylon type for pylon PB05R however is subject to change at detailed design.



Client:

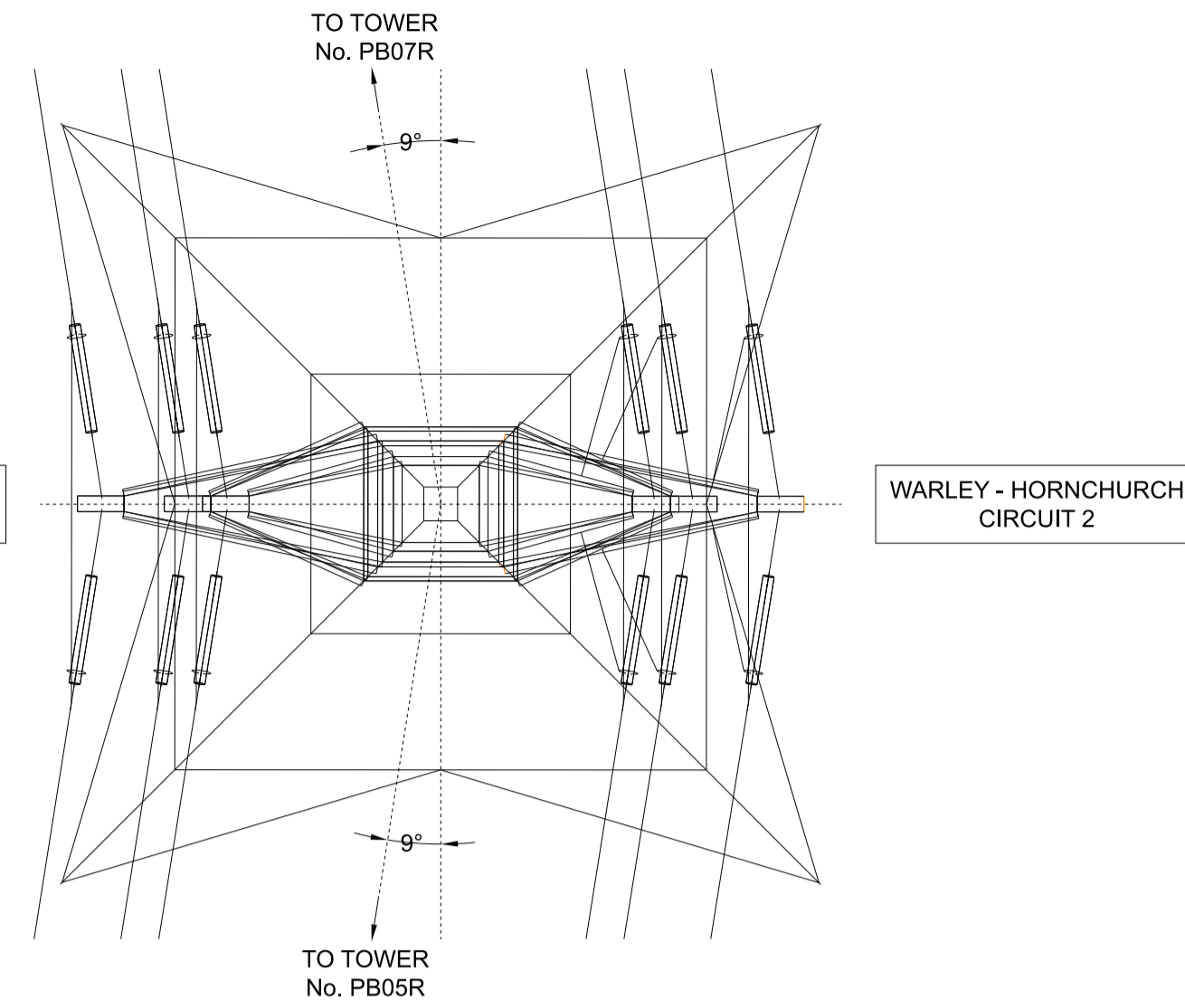
Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	PYLON GENERAL ARRANGEMENT REGULATION 5(2)(o) AND 6(2) SHEET 3 - L7c D E12				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10809				



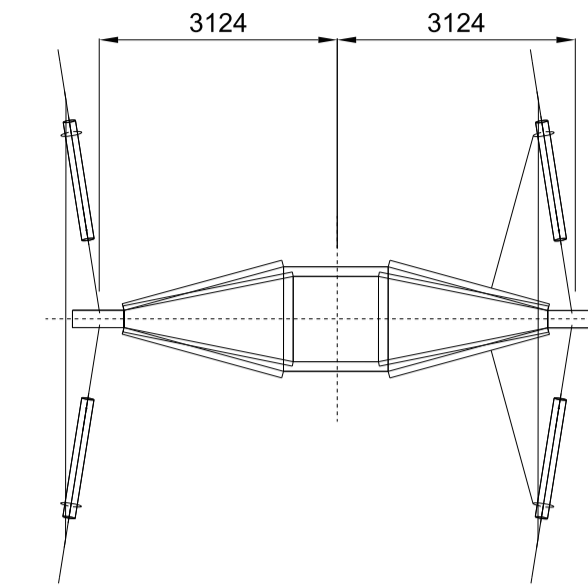
DETAIL A
TYPICAL TENSION SET ATTACHMENT
NOT TO SCALE

NOTE:
NON-TENSION JOINTS TO BE INSTALLED WHERE
CLAMPS ARE USED AND CONDUCTOR TAILS NEED
TO BE CONNECTED TO FORM JUMPER LOOPS

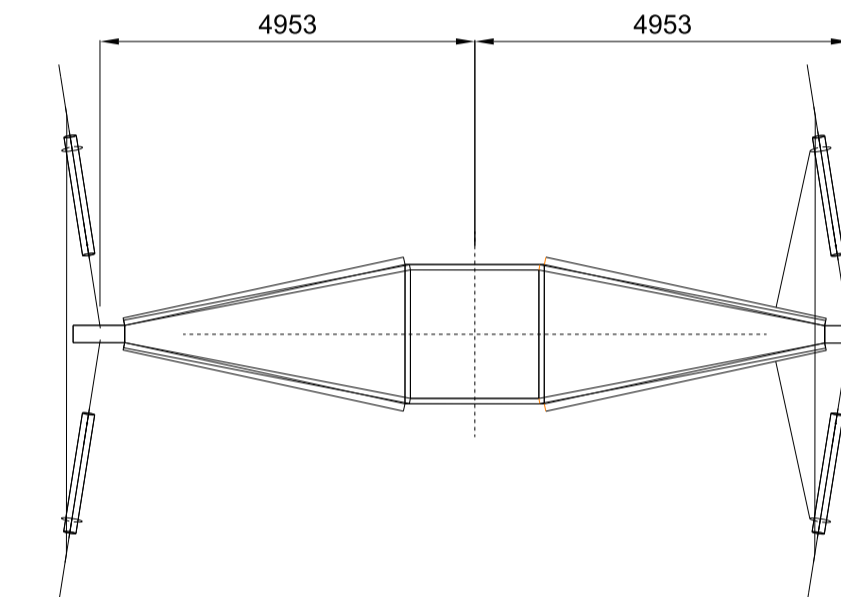


PLAN
1:100

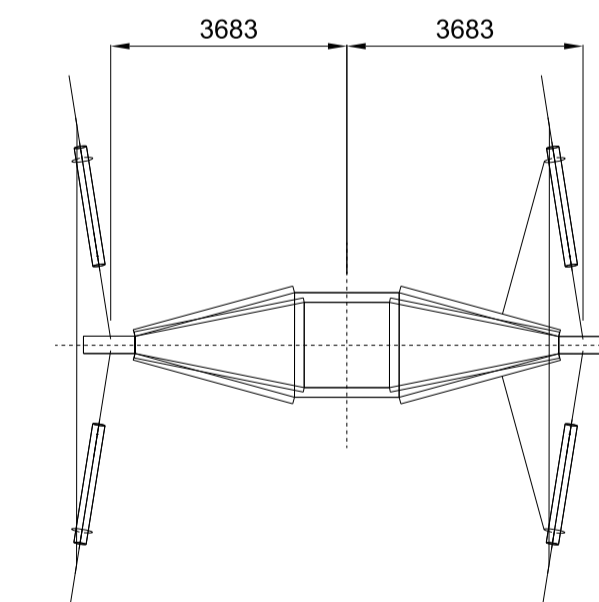
NOTE:
ALL SETS CONNECTED TO CENTRAL SWIVEL
ATTACHMENT POSITION WITHIN WELDED
CROSSARM END ASSEMBLY - SEE DETAIL A



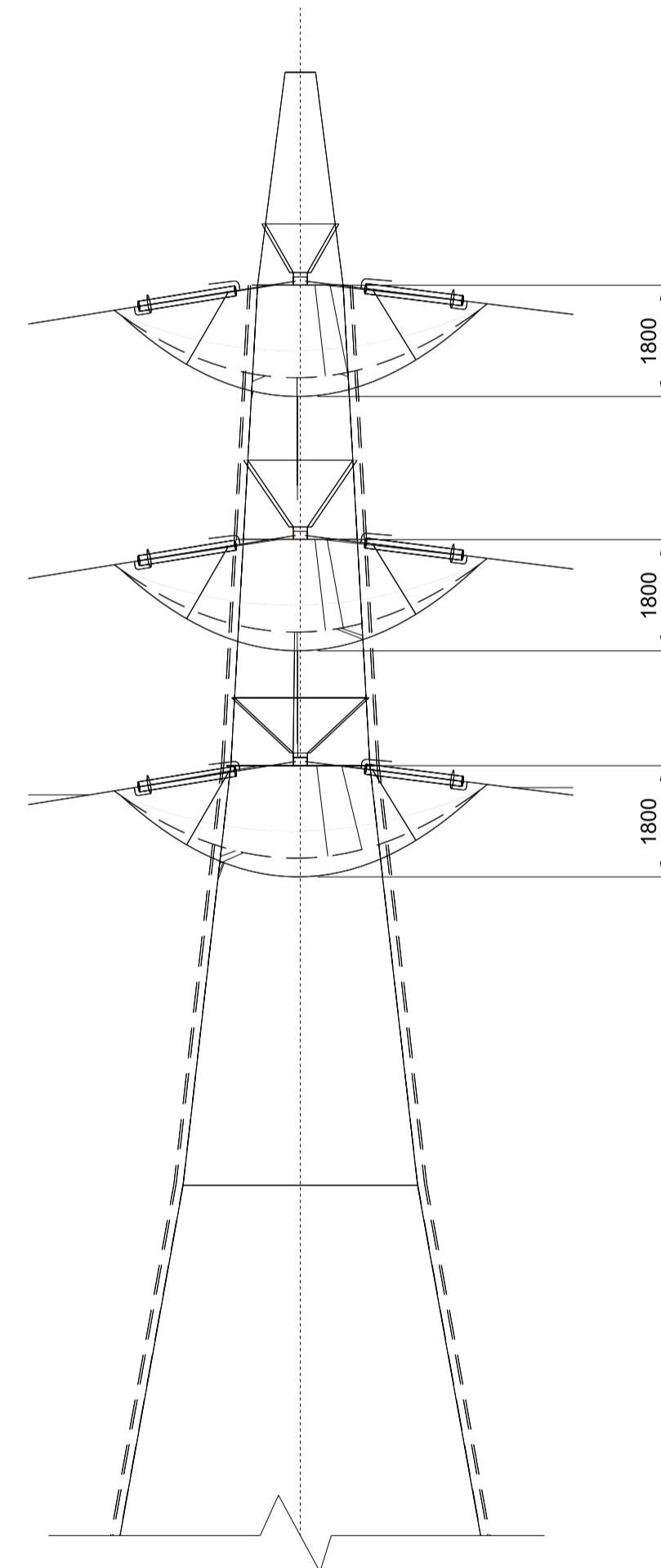
PLAN ON TOP CROSSARMS
1:100



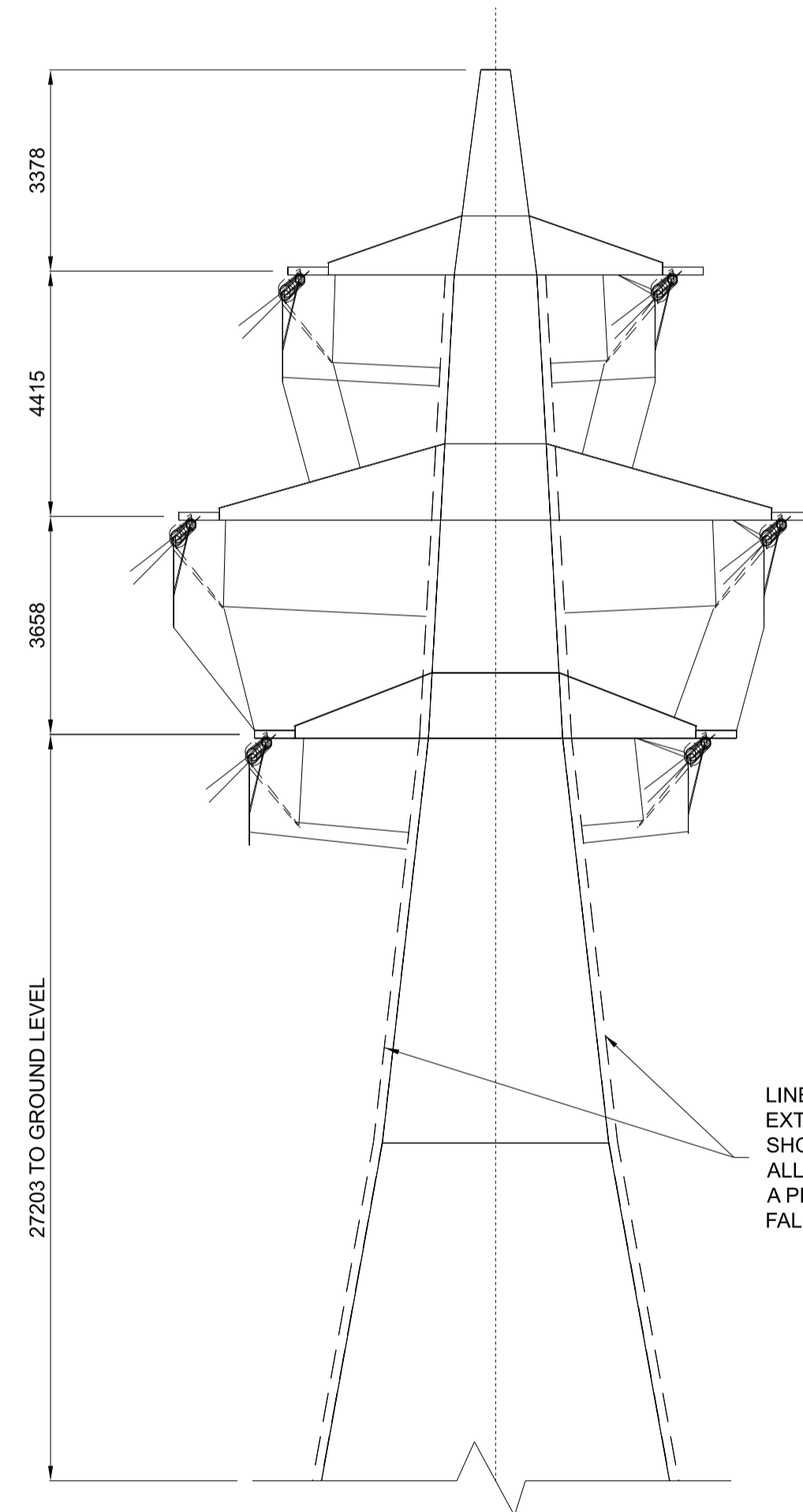
PLAN ON MIDDLE CROSSARMS
1:100



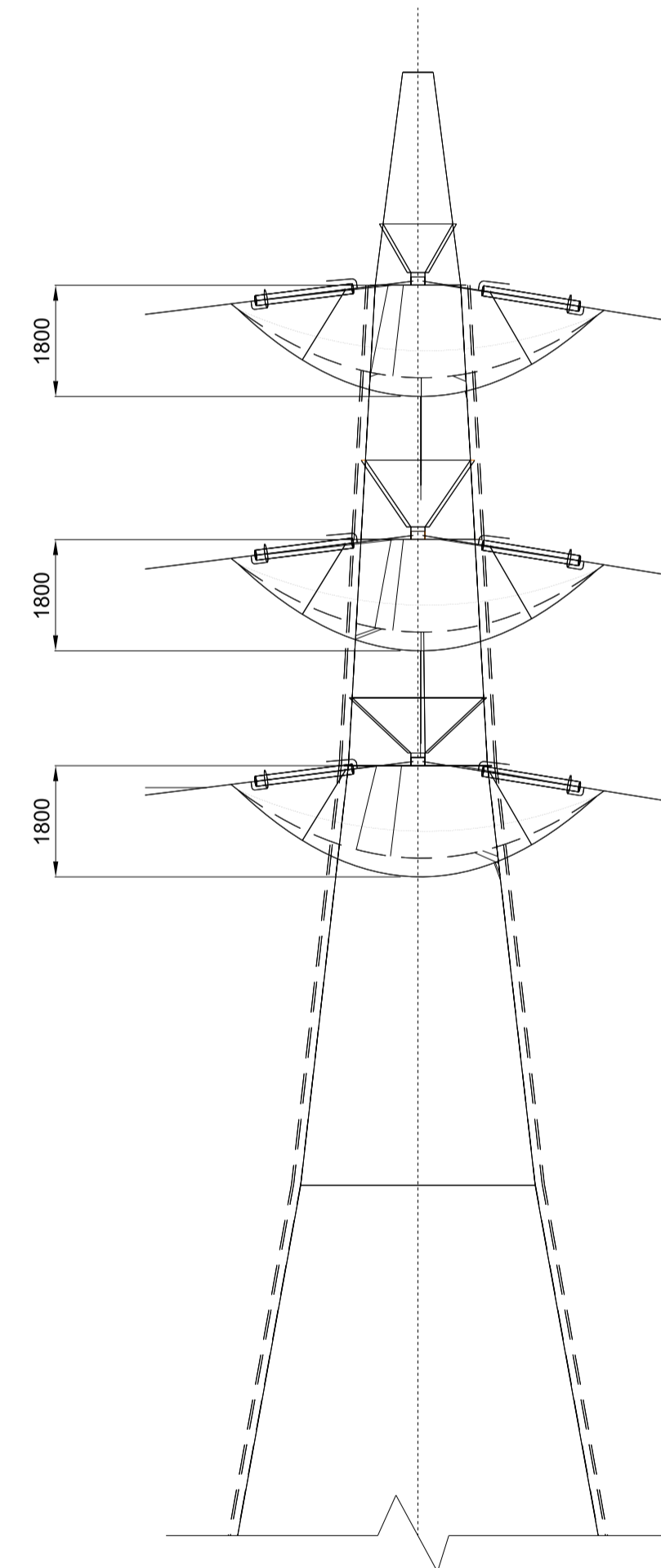
PLAN ON BOTTOM CROSSARMS
1:100



LONGITUDINAL ELEVATION
SHOWING WARLEY - HORNBURCH CIRCUIT 1 ONLY
1:100



TRANSVERSE ELEVATION
1:100



LONGITUDINAL ELEVATION
SHOWING WARLEY - HORNBURCH CIRCUIT 2 ONLY
1:100

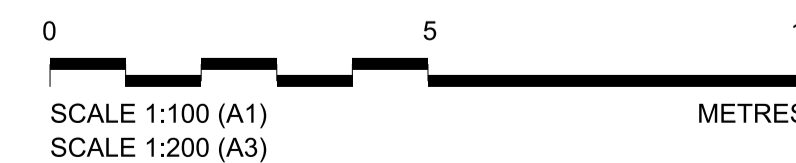
LINES REPRESENT OUTER
EXTENT OF STEPBOLTS
SHOWN AT 150mm AND
ALLOWS FOR CLEARANCE TO
A PERMANENTLY INSTALLED
FALL ARREST SYSTEM

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NOTES:

- The proposed design of the structure shown is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
- All dimensions are in millimetres unless stated otherwise.
- This is the assumed pylon type for Pylons PB06R however is subject to change at detailed design.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB

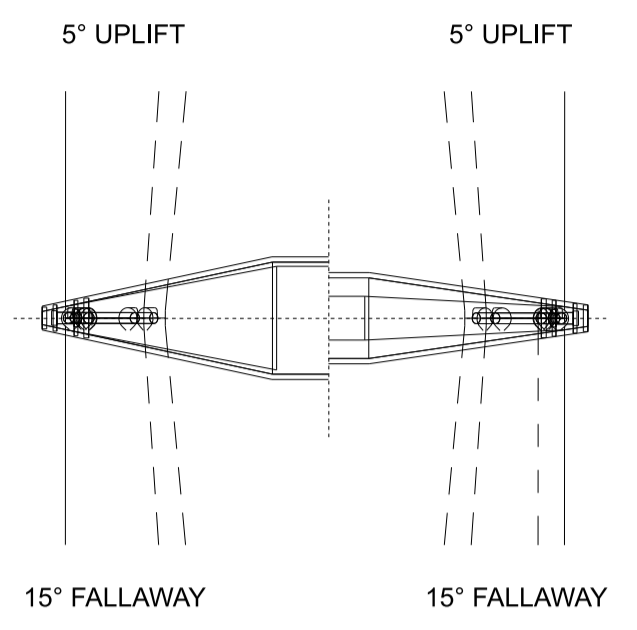


Client
national highways

Project
LOWER THAMES CROSSING

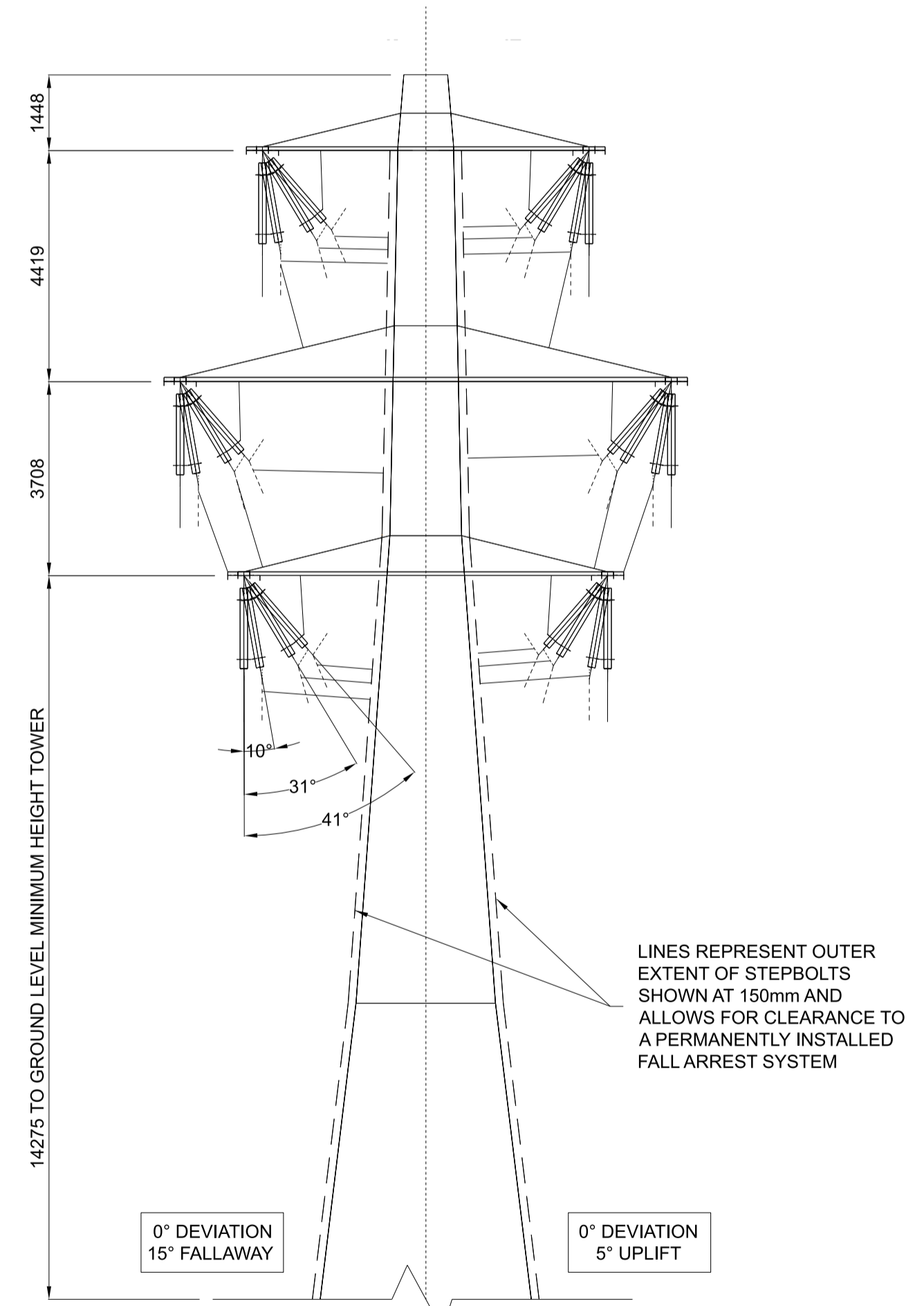
Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	PYLON GENERAL ARRANGEMENT REGULATION 5(2)(o) AND 6(2) SHEET 4 - L7c D30 E12				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10810				

NOTE:
0° DEVIATION:
SHOWING POSITIONS OF
MINIMUM CLEARANCE AT
BOTTOM CROSSARM LEVEL

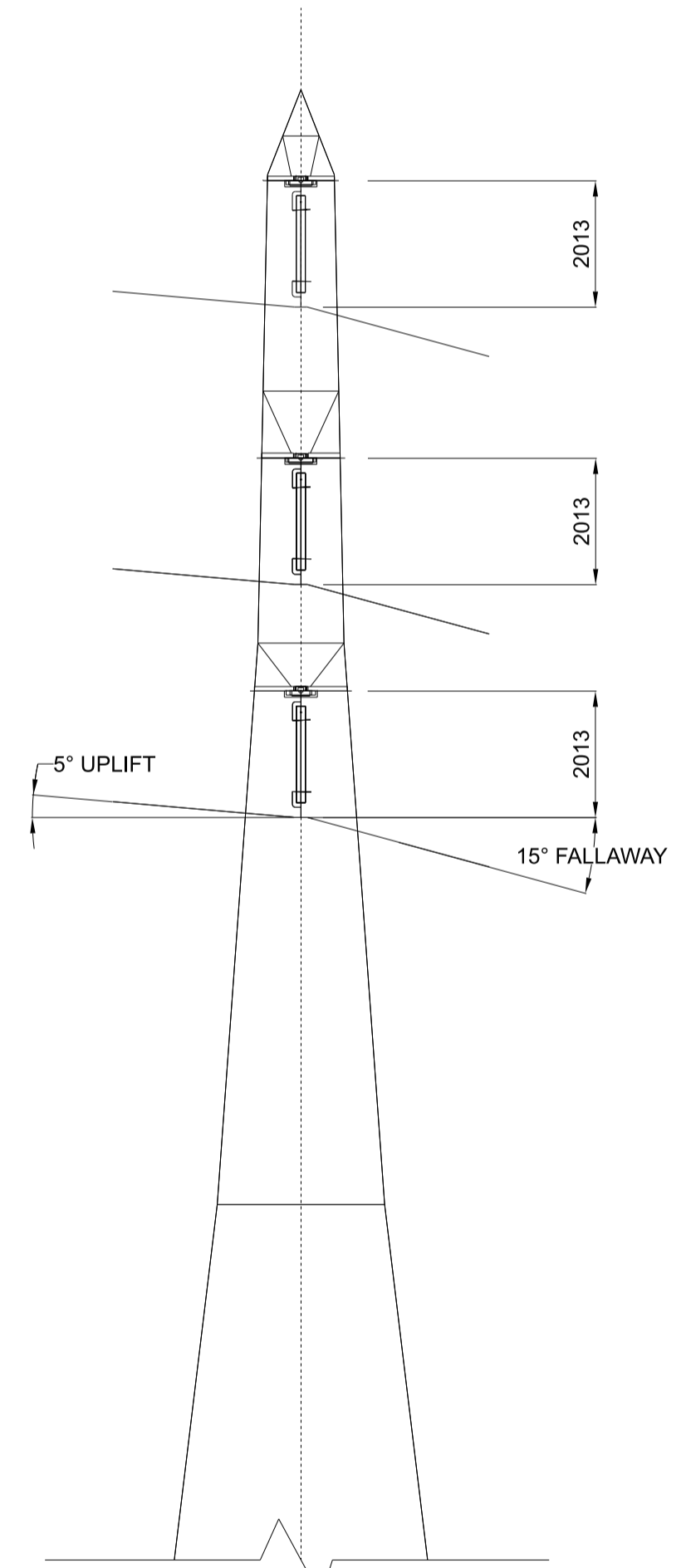


NOTE:
0° DEVIATION:
SHOWING POSITIONS OF
MINIMUM CLEARANCE AT
TOP CROSSARM LEVEL

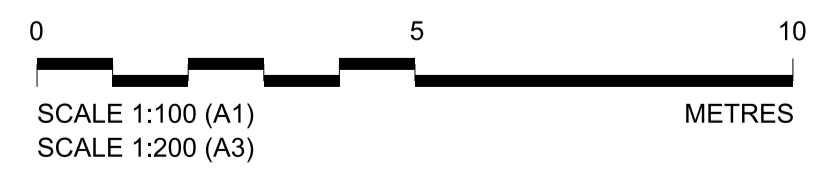
PLAN ON CROSSARMS
1:100



TRANSVERSE ELEVATION
1:100



LONGITUDINAL ELEVATION
1:100



- NOTES:
- The proposed design of the structure shown is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
 - All dimensions are in millimetres unless stated otherwise.
 - These are the assumed pylon types for Pylons PAB13R, PAB15R, PAB16R however is subject to change at detailed design.

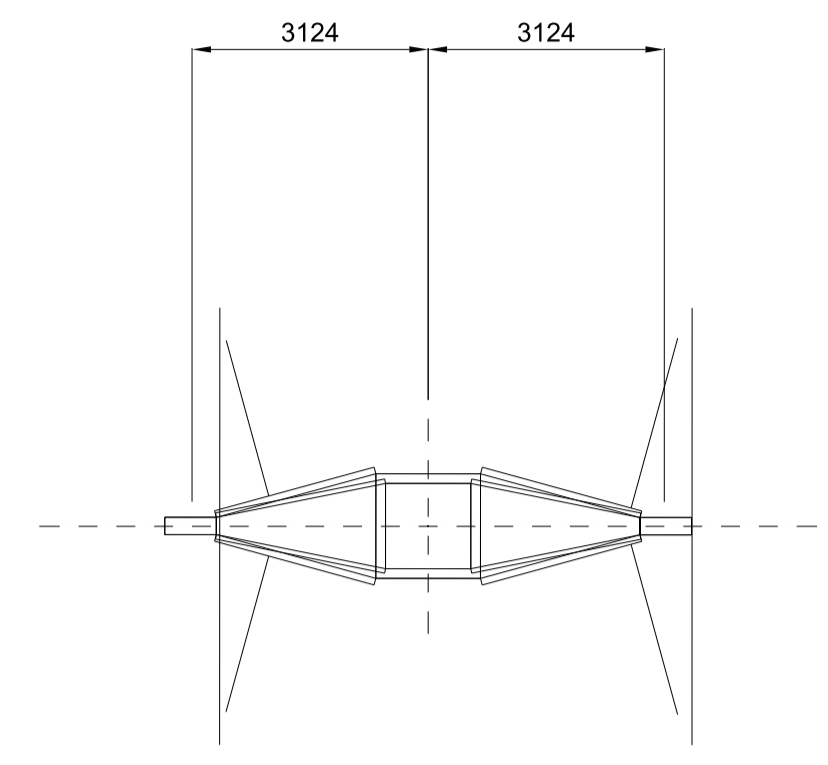
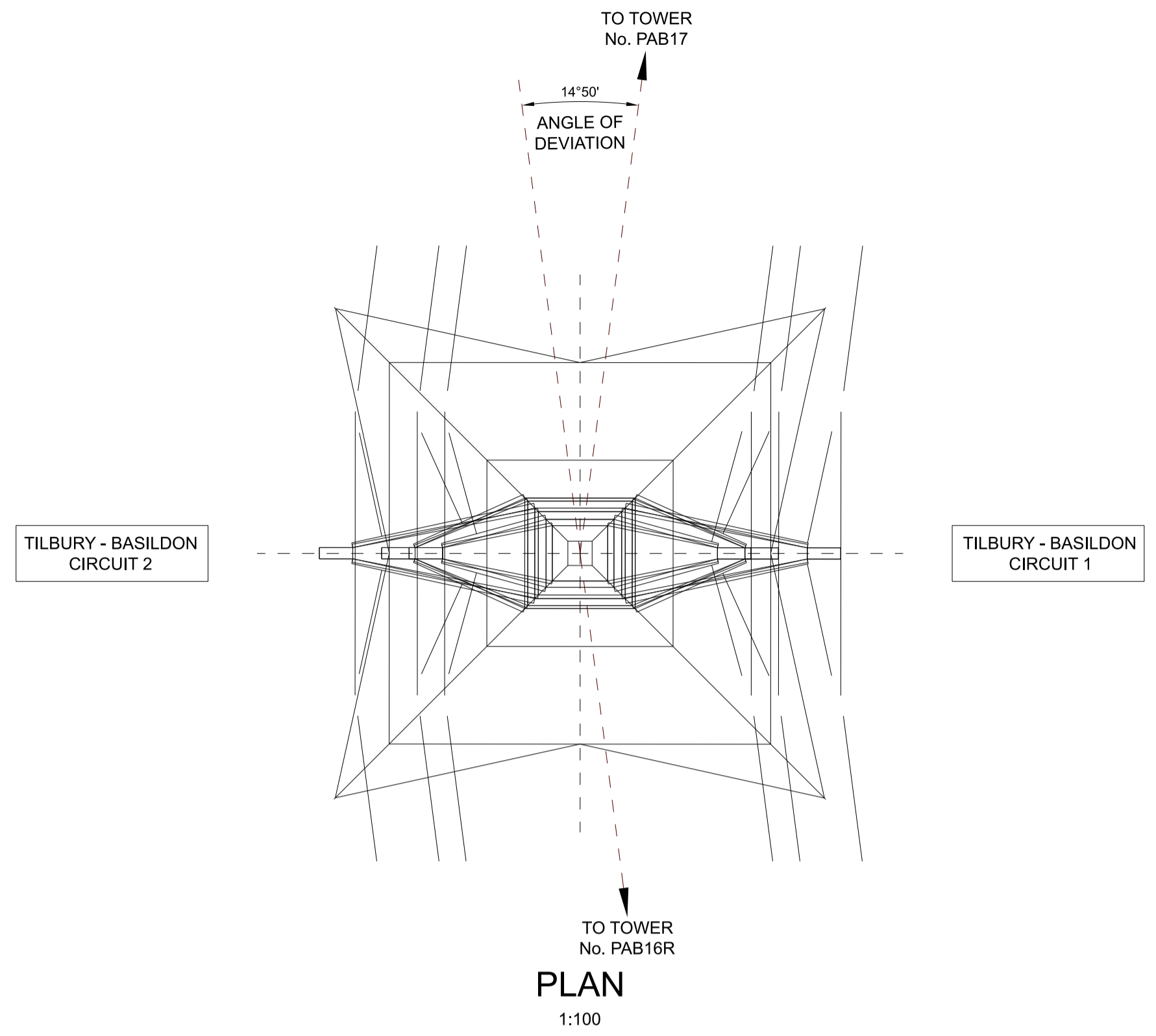
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB

Client

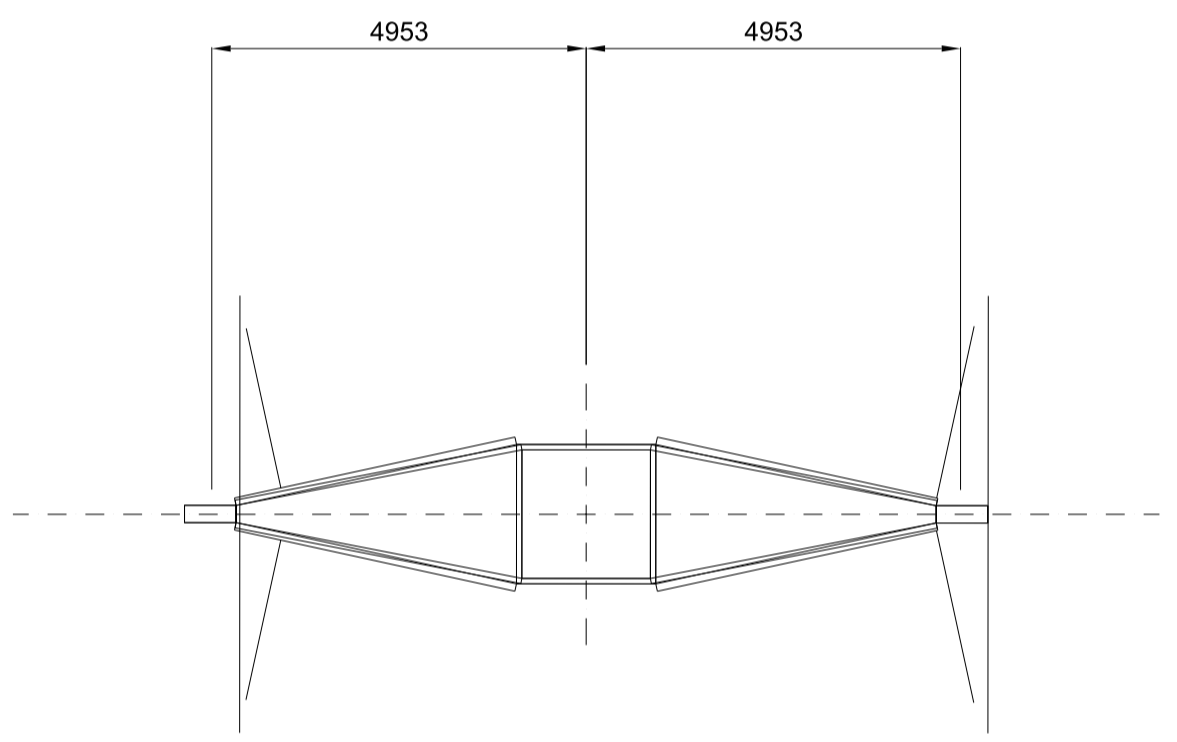
Project

LOWER THAMES CROSSING

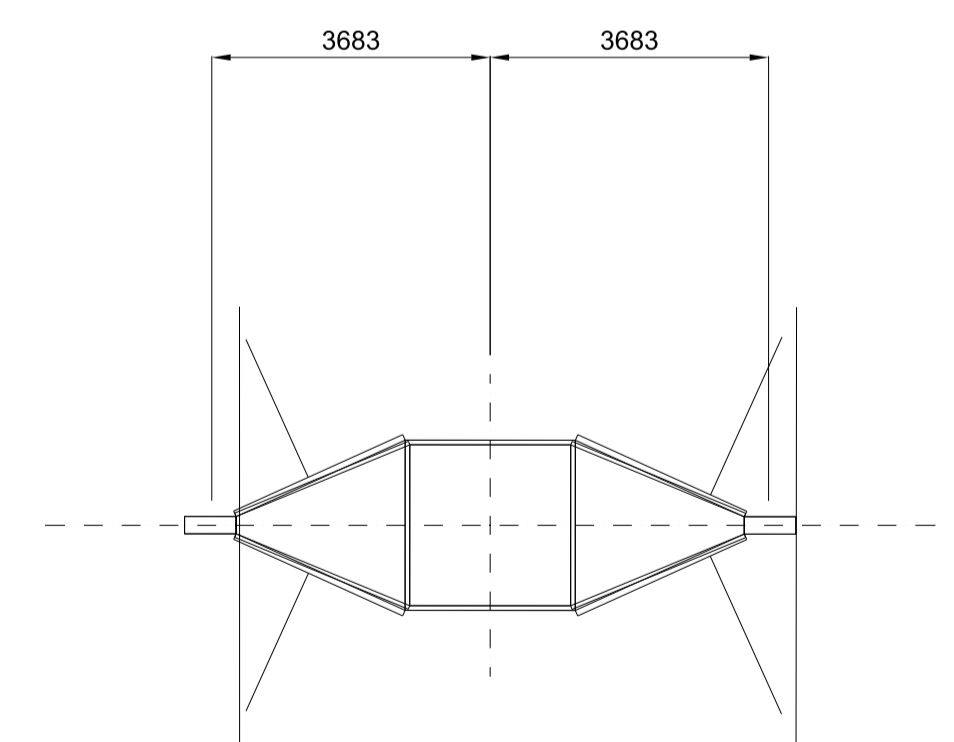
Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	PYLON GENERAL ARRANGEMENT REGULATION 5(2)(o) AND 6(2) SHEET 5 - L7c D E3				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10811				



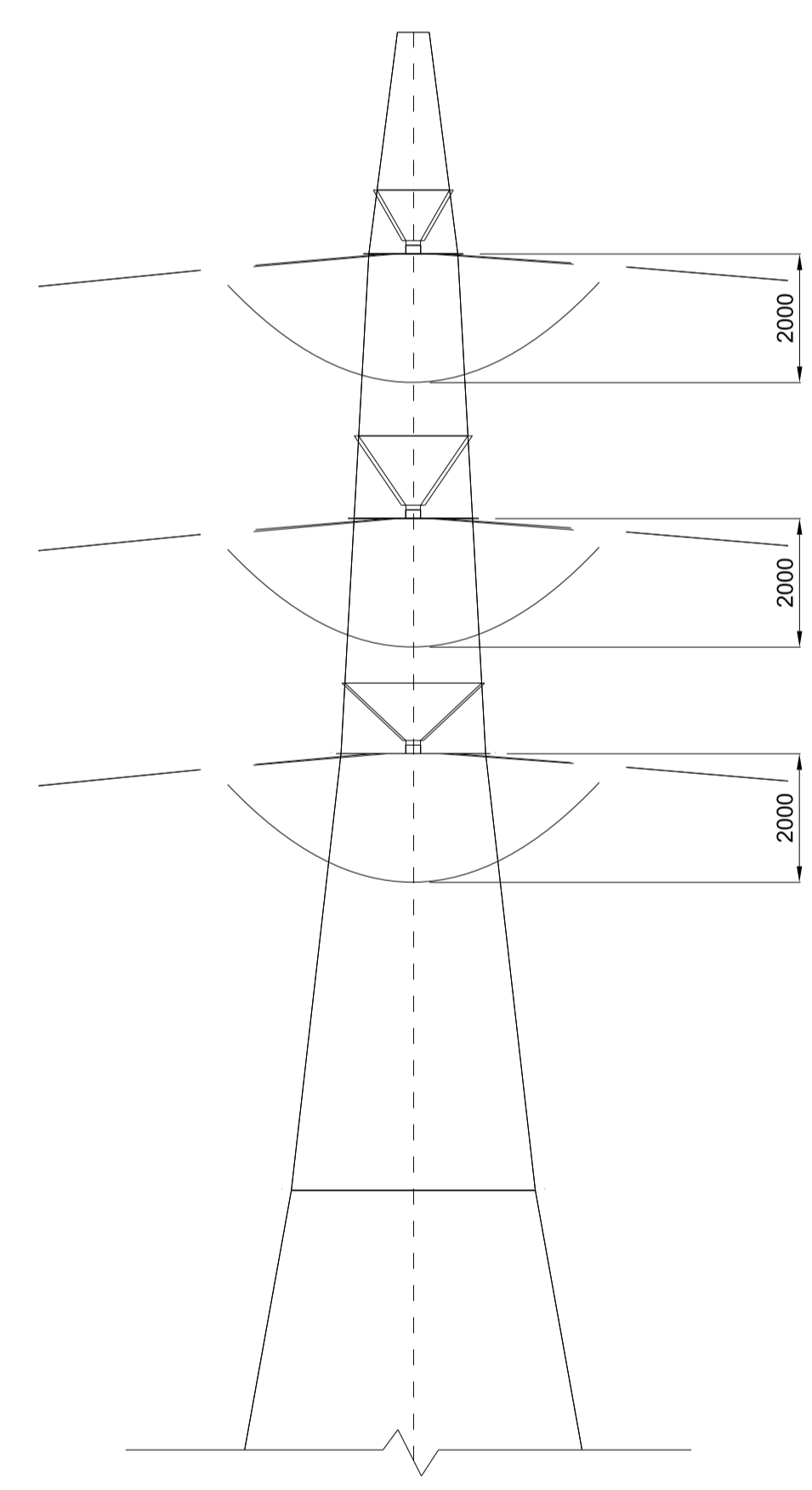
PLAN ON TOP CROSSARMS
1:100



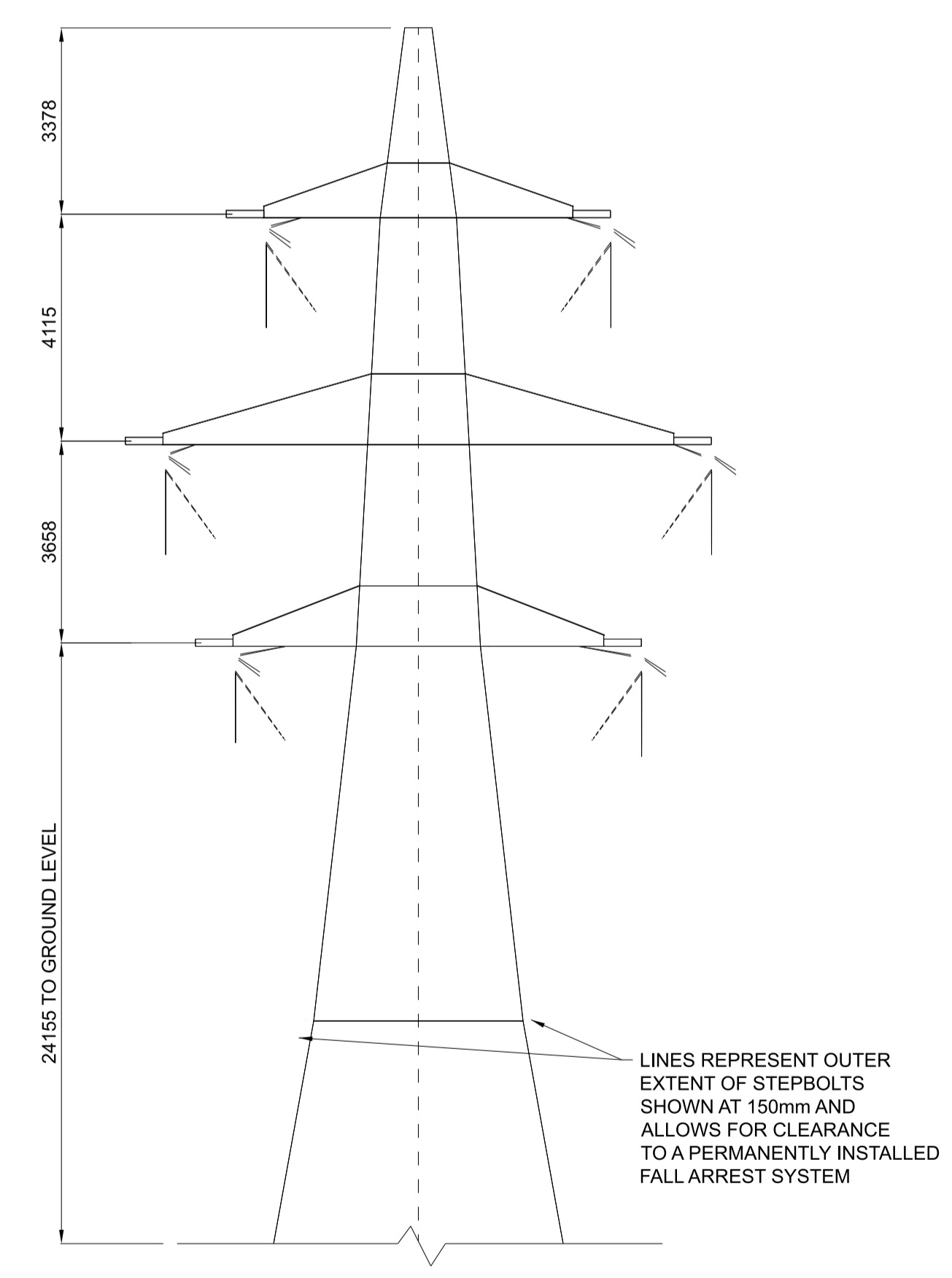
PLAN ON MIDDLE CROSSARMS
1:100



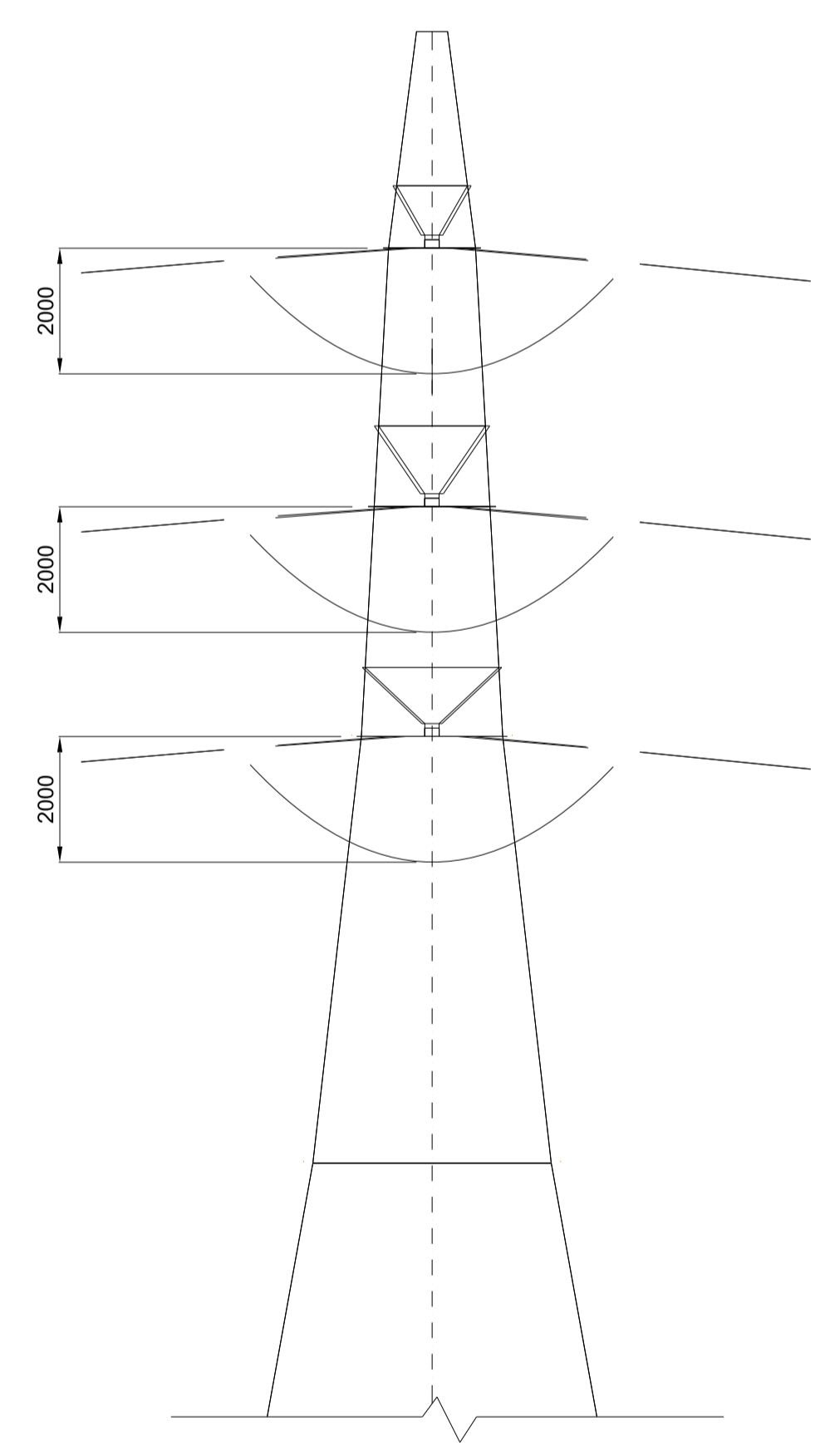
PLAN ON BOTTOM CROSSARMS
1:100



LONGITUDINAL ELEVATION
SHOWING TILBURY - BASILDON
CIRCUIT 2 ONLY
1:100



TRANSVERSE ELEVATION
1:100



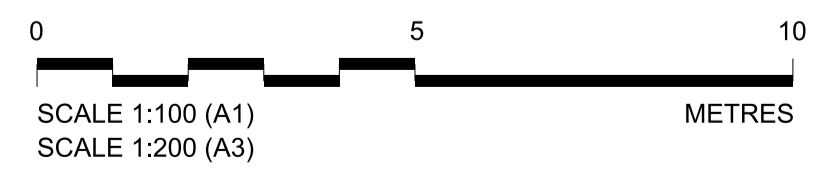
LONGITUDINAL ELEVATION
SHOWING TILBURY - BASILDON
CIRCUIT 1 ONLY
1:100

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd
P01	S8	19/10/2022	DCO Application	LY	BB	ASB
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB

NOTES:

- The proposed design of the structure shown is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
- All dimensions are in millimetres unless stated otherwise.
- These are the assumed pylon types for Pylons PAB14R and PAB17R however is subject to change at detailed design.

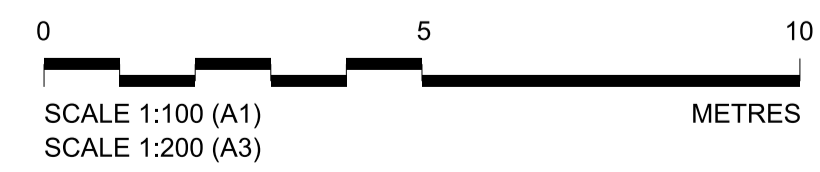
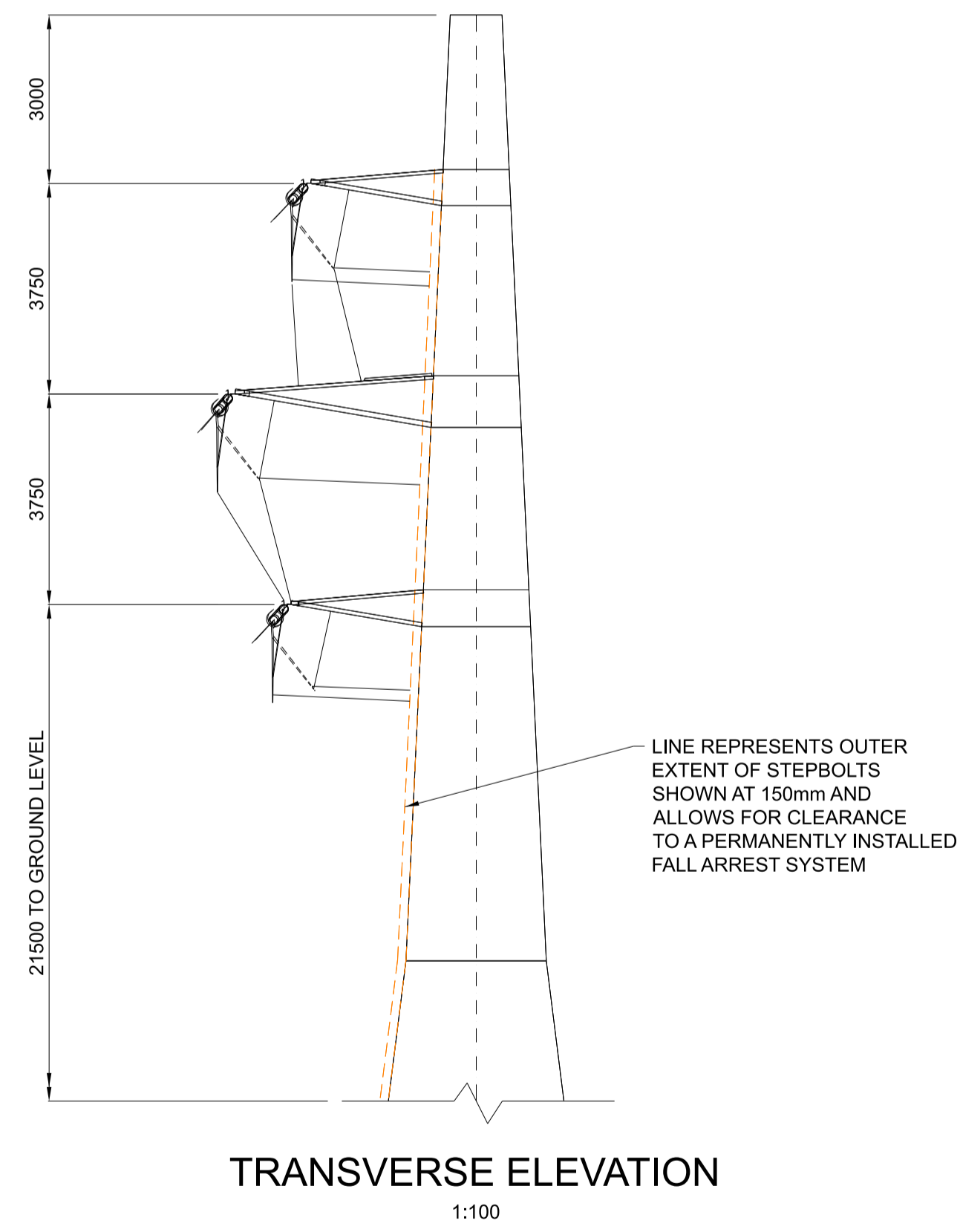
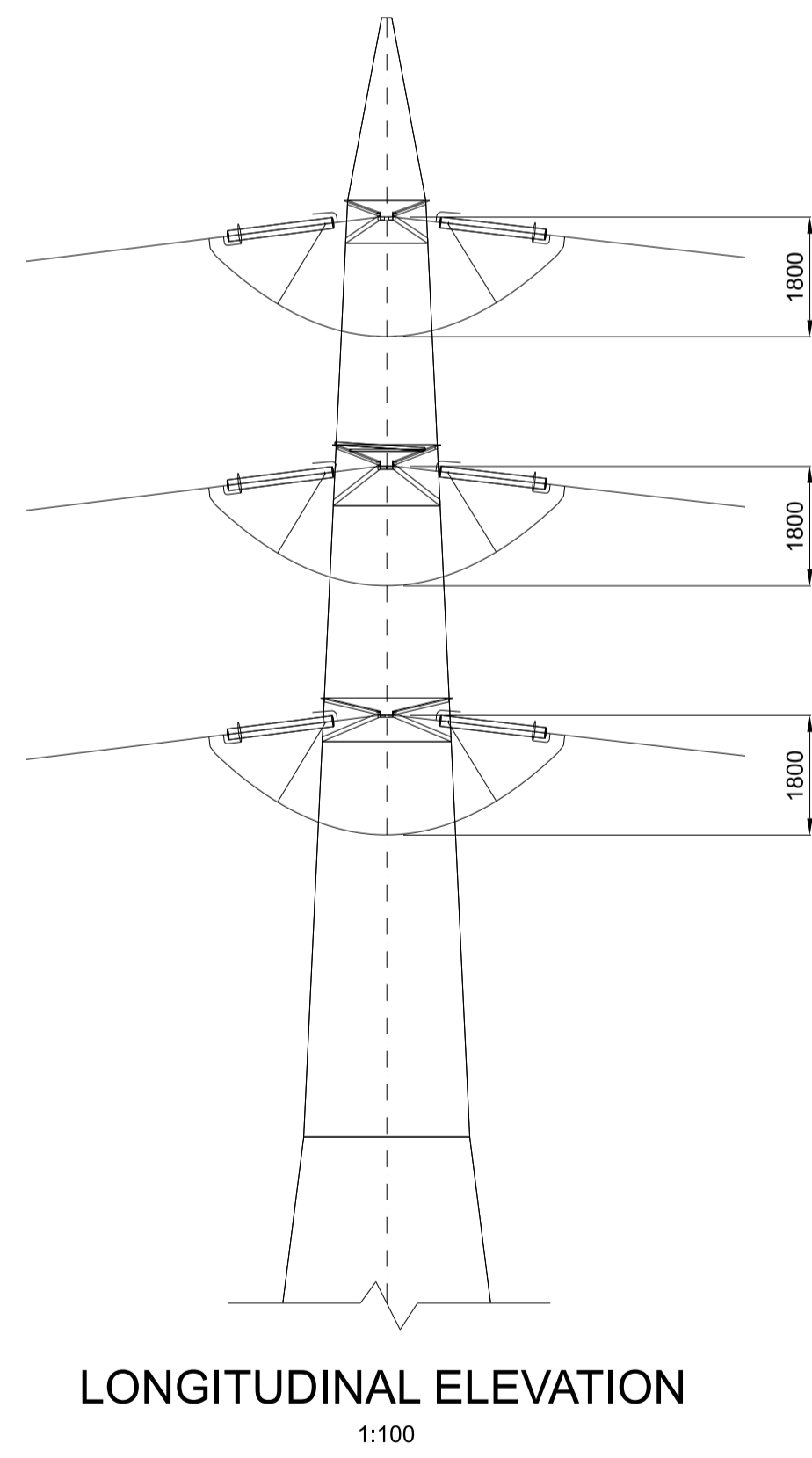
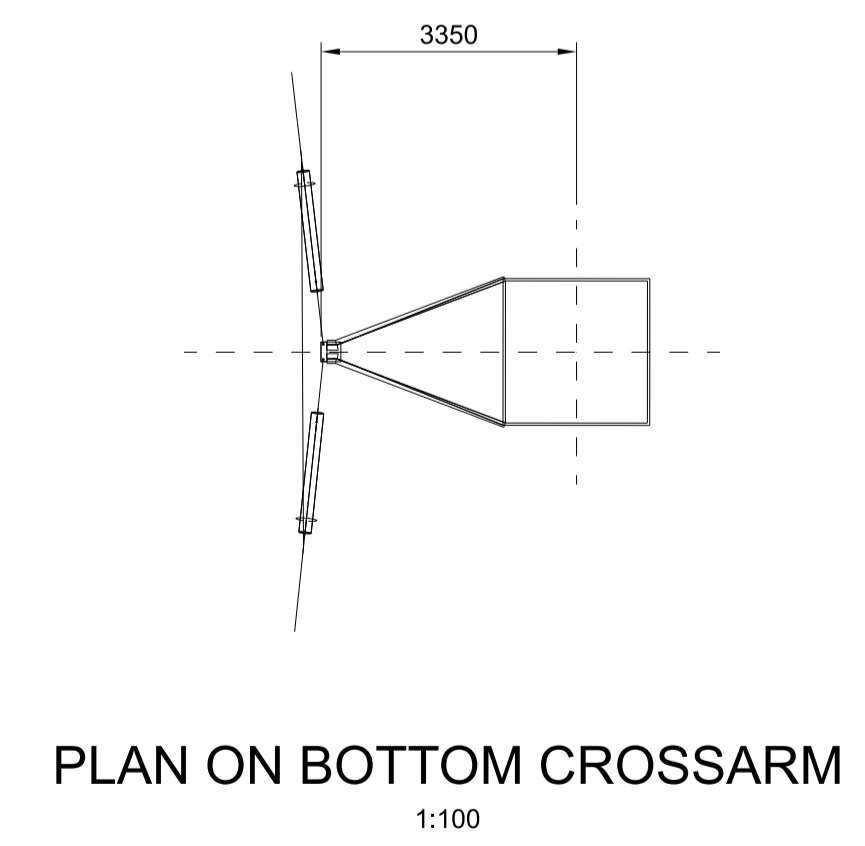
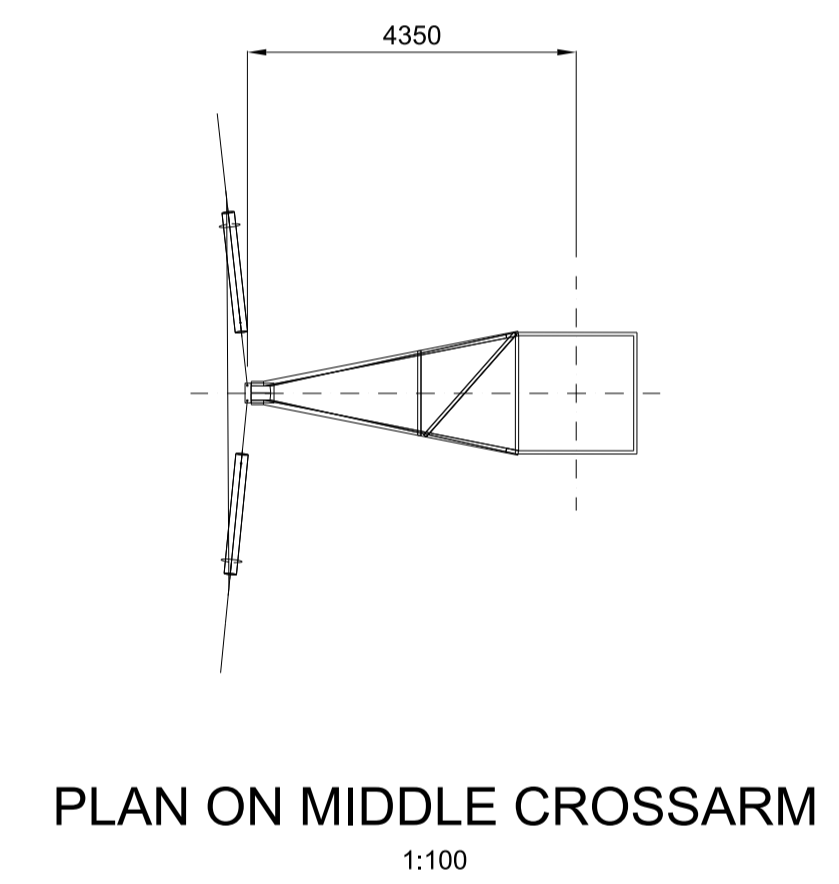
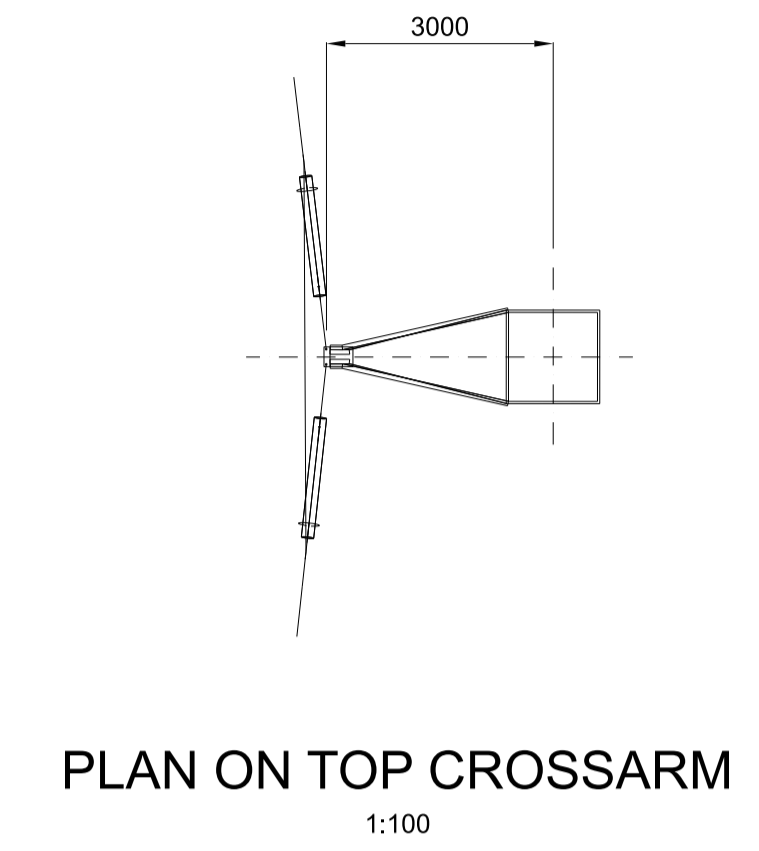
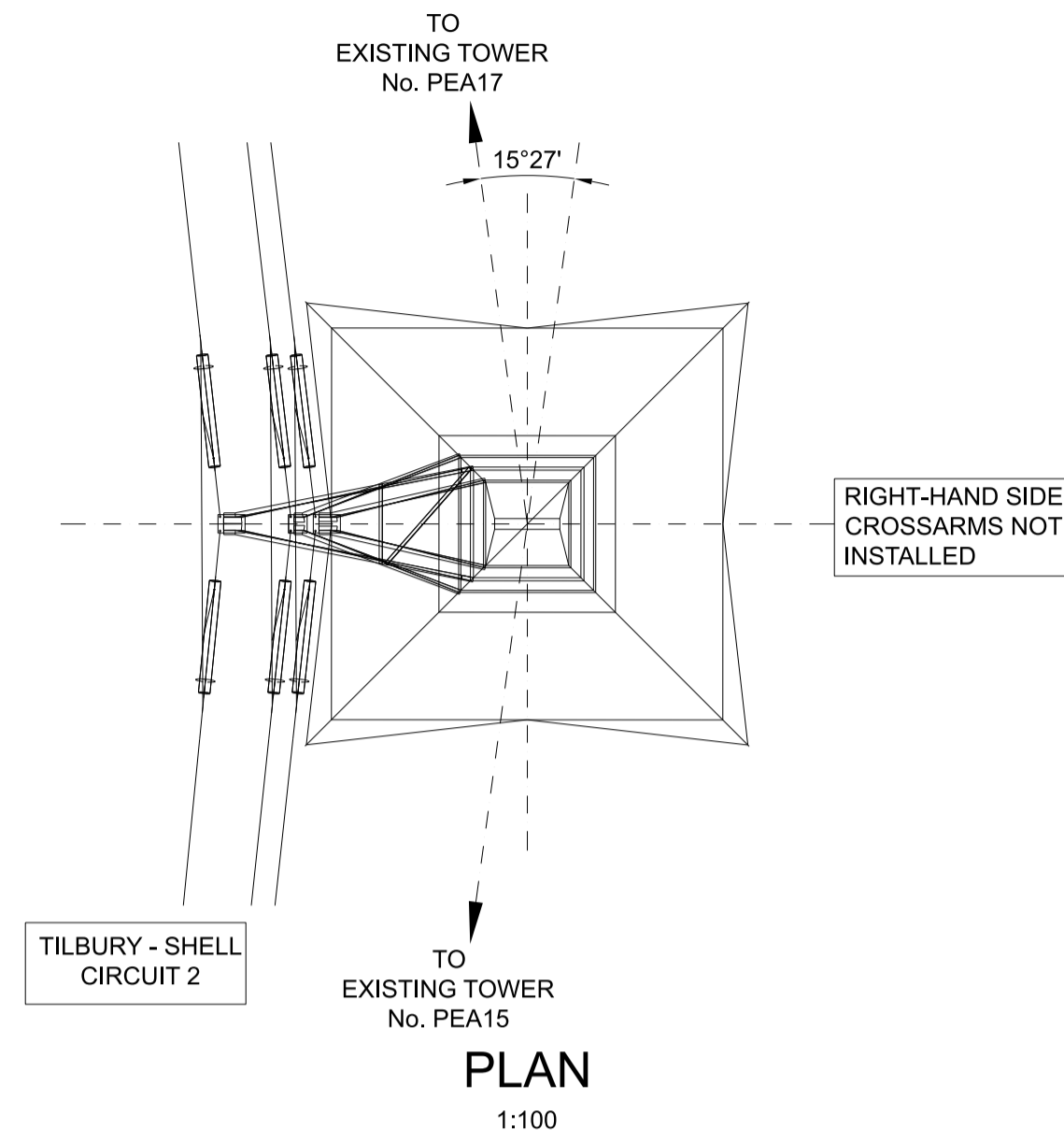


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Project
LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/2.9	Scale	AS SHOWN		
Drawing title	PYLON GENERAL ARRANGEMENT REGULATION 5(2)(o) AND 6(2) SHEET 6 - L7c D30 E9				
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10812				

NOTE:
CONDUCTOR TYPE FOR ALL SECTIONS FROM PEA07 TO PEA18 IS TO BE CONFIRMED PRIOR TO THE ORDERING OF ANY MATERIALS. ACSR JAGUAR CONDUCTOR OR ASSUMED AT THE DESIGN STAGE BASED ON INFORMATION PROVIDED BY THE UKPN. IF THE CONDUCTOR IS IDENTIFIED TO BE NON-JAGUAR, THE DESIGN OFFICE IS TO BE CONTACTED.



NOTES:

- The proposed design of the structure shown is illustrative only and will be subject to change as part of detailed design development. Any changes will be limited to being within the constraints included in the Development Consent Order (application document reference TR010032/APP/3.1).
- All dimensions are in millimetres unless stated otherwise.
- This is the assumed pylon type for Pylon PEA16T however is subject to change at detailed design.

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P01	S8	19/10/2022	DCO Application	LY	BB	ASB				
P02	S8	11/12/2023	Deadline 9	GP	RO	ASB				
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd				

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Status	DCO Examination		Original Size	A1	Revision	P02
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Drawing title:	PYLON GENERAL ARRANGEMENT REGULATION 5(2)(o) AND 6(2) SHEET 6 - L7c DT E9					
Drawing Number	HE540039-CJV-BOP-SZA_RX000000_-DR-CH-10813					

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