The Great Grid Upgrade

North Humber to High Marnham

NHHM-LSTC-ENG-DWG-0049

North Humber to High Marnham

Volume 2: Plans, Drawings and Sections

Document 2.12 Typical Design Drawings

Final Issue A

October 2026

Planning Inspectorate Reference: EN020034

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(o)

nationalgrid

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
LIST OF DESIGN & CONSTRUCTION DRAWINGS
REGULATION 5(2)(o)
SHEET 1 OF 20

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LIST OF DESIGN & CONSTRUCTION DRAWINGS	1 OF 20	A
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ILLUSTRATIVE LATTICE PYLONS L2 D STD, L6 J.L. EVE D STD, L8(c) D STD & L6m D STD	4 OF 20	A
ILLUSTRATIVE LATTICE PYLONS L6(m) SFT STD & L6(m) D E78	5 OF 20	A
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ILLUSTRATIVE SCAFFOLD PROTECTION FOR OVERHEAD LINE CONDUCTOR STRINGING	20 OF 20	A

Legend

N/A

Notes

N/A

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	DB	JL	CJ

Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
LIST OF DESIGN & CONSTRUCTION DRAWINGS
REGULATION 5(2)(o)
SHEET 1 OF 20

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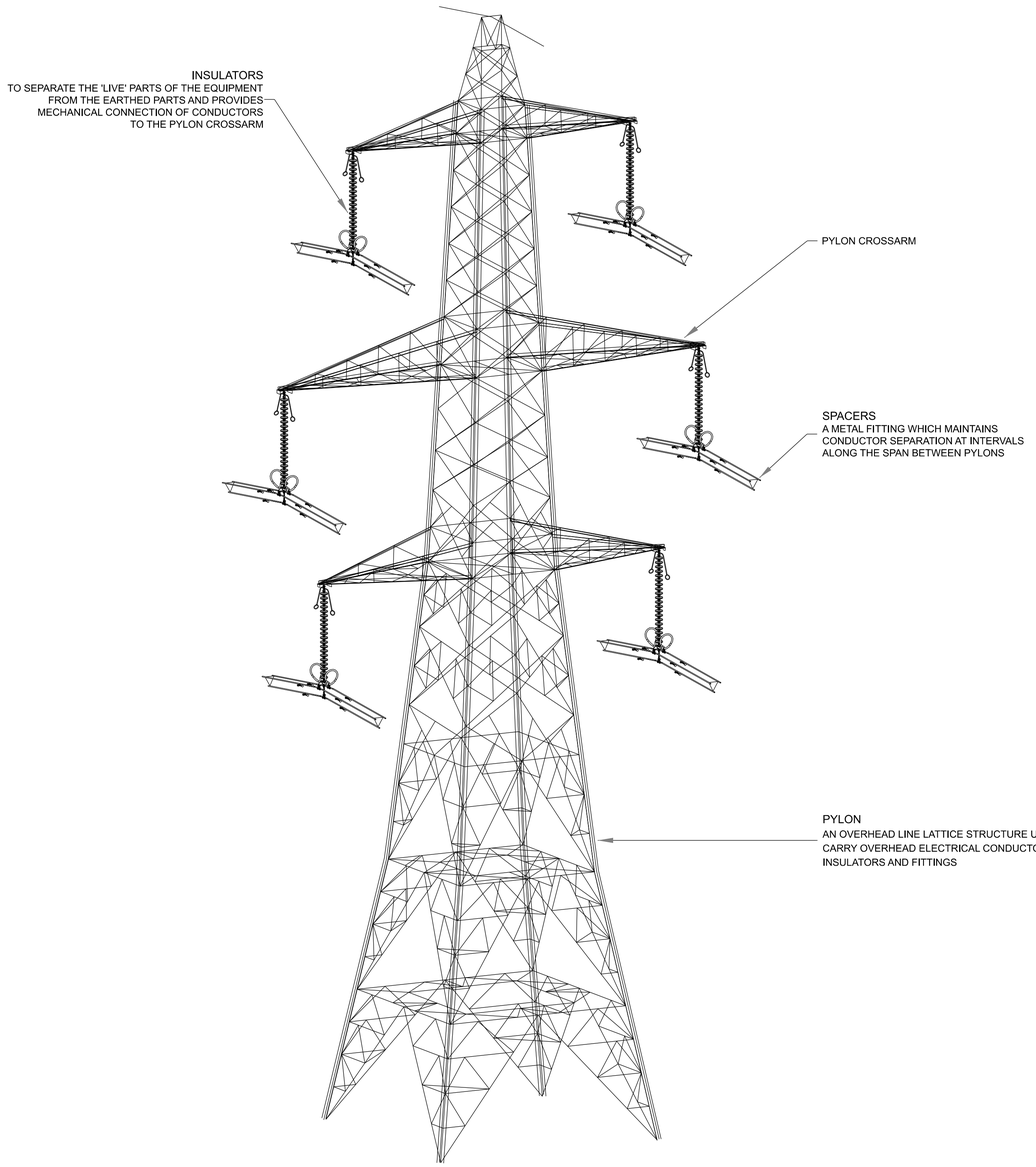
Application Number
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National Grid Drawing Reference
NHHM-LSTC-ENG-DWG-0049

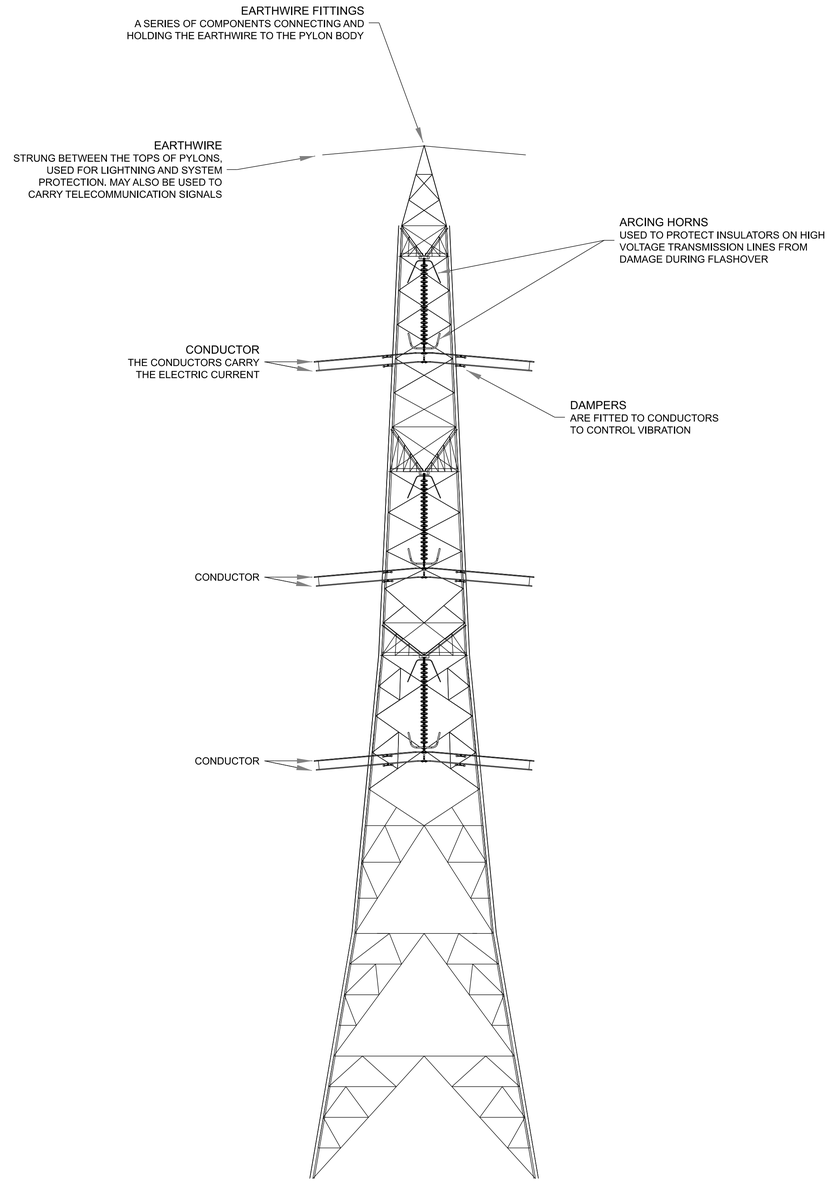
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE SUSPENSION LATTICE PYLON
REGULATION 5(2)(o)
SHEET 2 OF 20



ISOMETRIC VIEW ON PYLON
L6(m) D STD



LONGITUDINAL VIEW ON PYLON
L6(m) D STD

Legend

N/A

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING SHOWS BASIC COMPONENTS IN A SUSPENSION LATTICE PYLON.
3. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
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Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE SUSPENSION LATTICE PYLON
REGULATION 5(2)(o)
SHEET 2 OF 20

nationalgrid

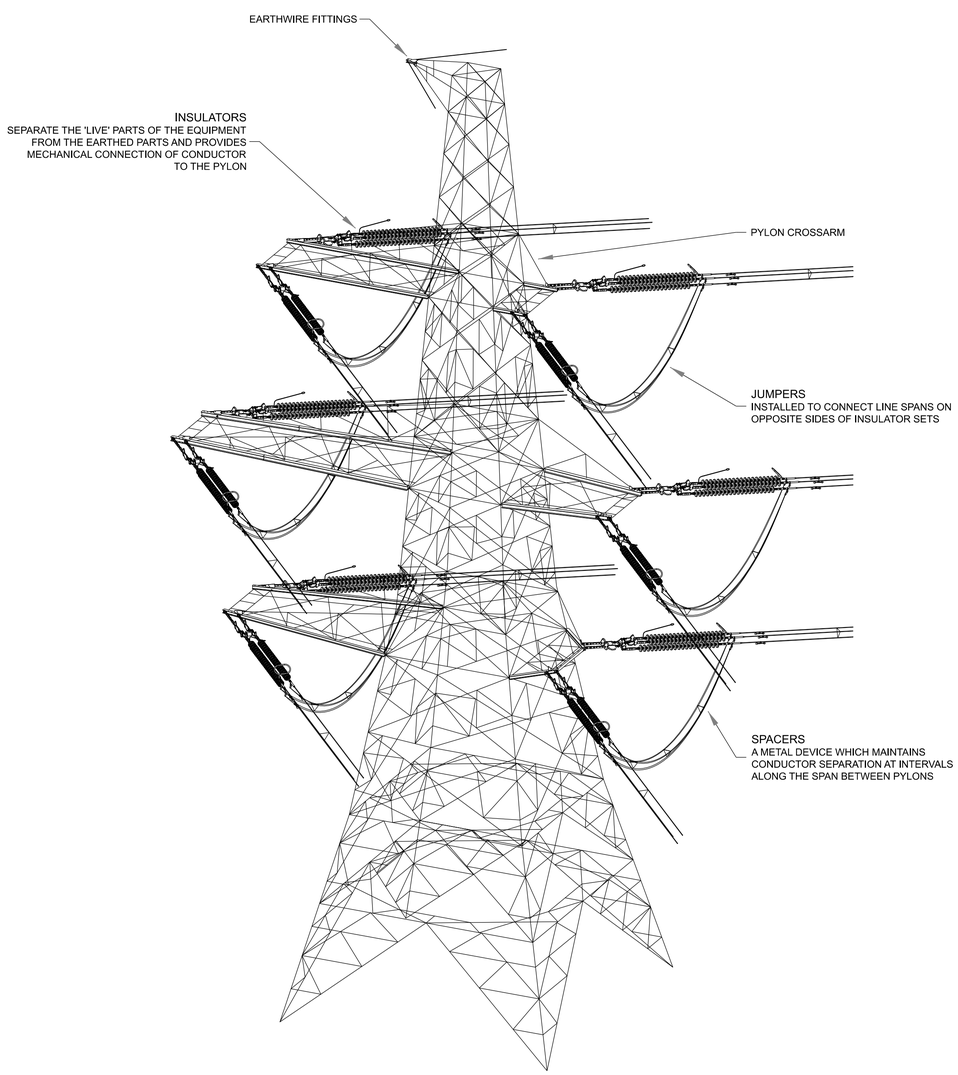
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National Grid Drawing Reference
NHHM-LSTC-ENG-DWG-0049

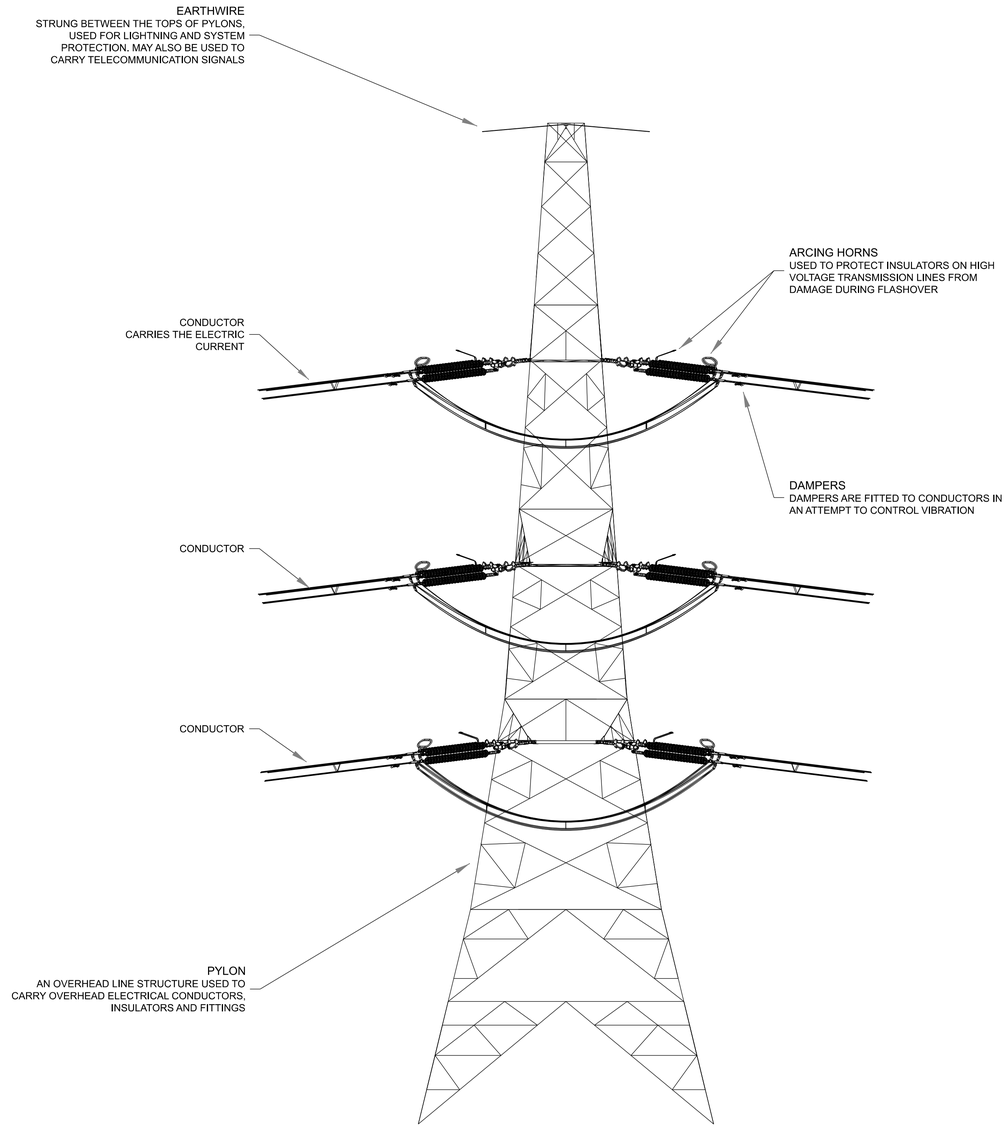
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE TENSION LATTICE PYLON
REGULATION 5(2)(o)
SHEET 3 OF 20



ISOMETRIC VIEW OF PYLON
L12 D90 STD



LONGITUDINAL VIEW OF PYLON
L12 D90 STD

Legend

N/A

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. REFER TO DRAWINGS BK35_18205 & BK35_18246 - 18354 FOR ANGLED LATTICE PYLON DESIGN.
3. THIS DRAWING SHOWS BASIC COMPONENTS OF A L12 D90 TENSION LATTICE PYLON.
4. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE TENSION LATTICE PYLON
REGULATION 5(2)(o)
SHEET 3 OF 20

nationalgrid

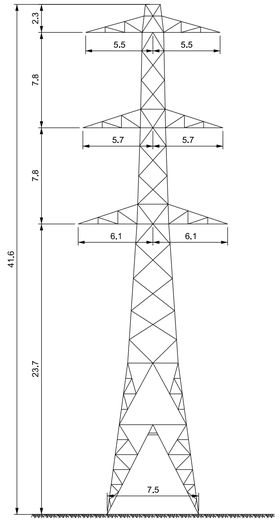
Application Number
EN020034

National Grid Drawing Reference
NHHM-LSTC-ENG-DWG-0049

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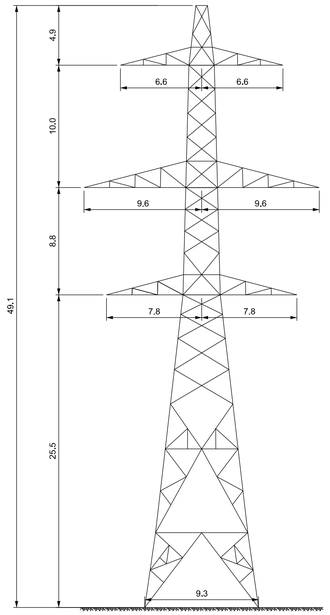
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLONS L2 D STD, L6 J.L. EVE D STD, L8(c) D STD & L6m D STD
REGULATION 5(2)(o)
SHEET 4 OF 20



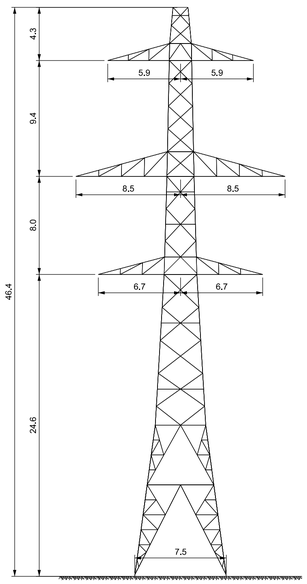
L2 D STD

EXISTING PYLON



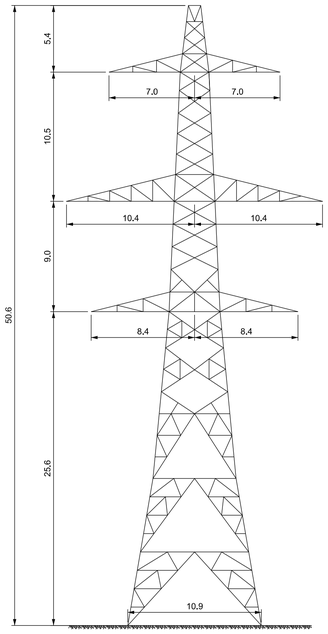
L6 J.L. EVE D STD

EXISTING PYLON



L8(c) D STD

PROPOSED PYLON



L6m D STD

PROPOSED PYLON

Legend

N/A

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE.
2. PYLON LEG SPACING AT GROUND LEVEL ASSUMES LEVEL GROUND CONDITIONS.
3. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLONS
L2 D STD, L6 J.L. EVE D STD,
L8(c) D STD & L6m D STD
REGULATION 5(2)(o)
SHEET 4 OF 20

nationalgrid

Application Number
EN020034

National Grid Drawing Reference
NHHM-LSTC-ENG-DWG-0049

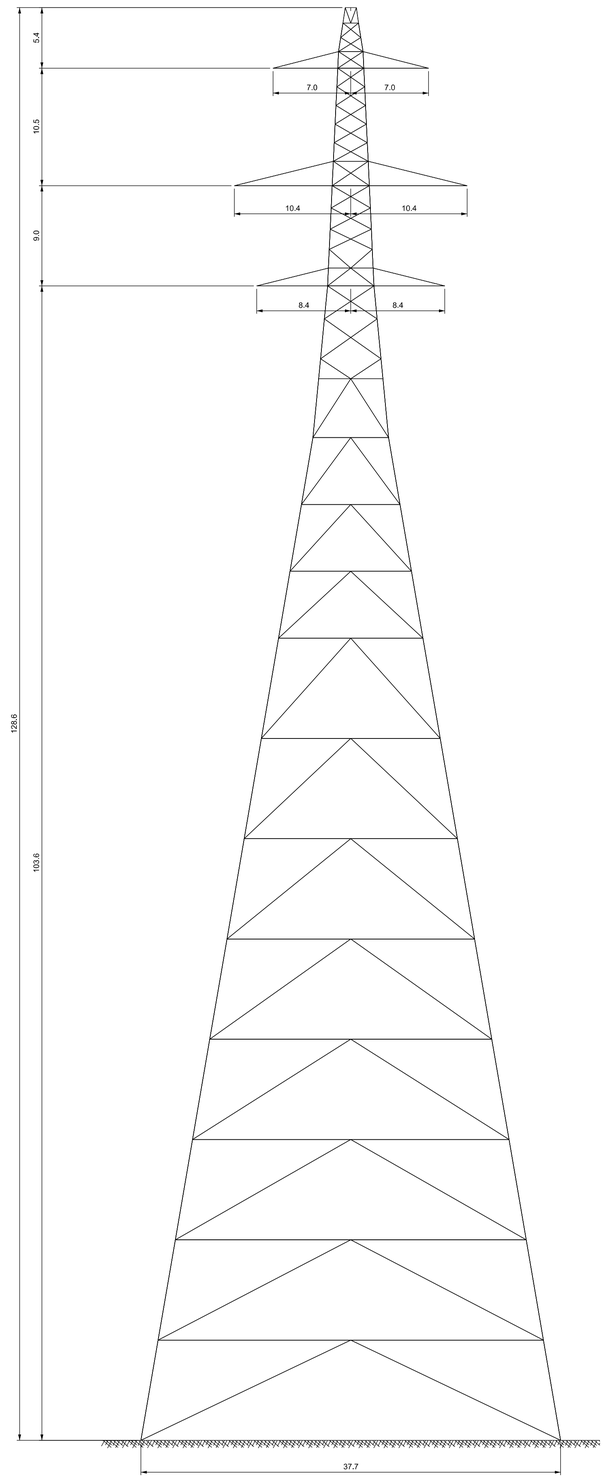
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLONS L6(m) SFT STD & L6(m) D E78
REGULATION 5(2)(o)
SHEET 5 OF 20



L6(m) SFT STD
PROPOSED PYLON



L6(m) D E78
PROPOSED PYLON

Legend

N/A

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE.
2. PYLON LEG SPACING AT GROUND LEVEL ASSUMES LEVEL GROUND CONDITIONS.
3. L6(m) D E78 PYLONS FOR RIVER CROSSING WILL BE BESPOKE AND SUBJECT TO DETAIL DESIGN. DIMENSIONS SHOWN ARE PRELIMINARY ONLY.
4. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

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THE NATIONAL GRID
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ILLUSTRATIVE LATTICE PYLONS
L6(m) SFT STD & L6(m) D E78
REGULATION 5(2)(o)
SHEET 5 OF 20

nationalgrid

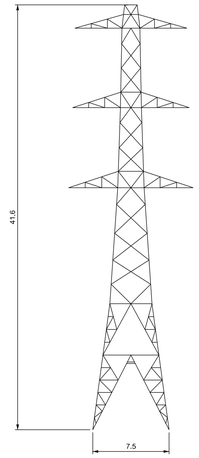
Application Number
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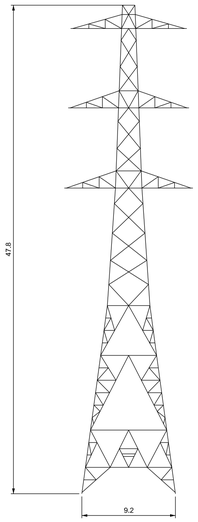
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE MIN-MAX LATTICE PYLONS
REGULATION 5(2)(o)
SHEET 6 OF 20

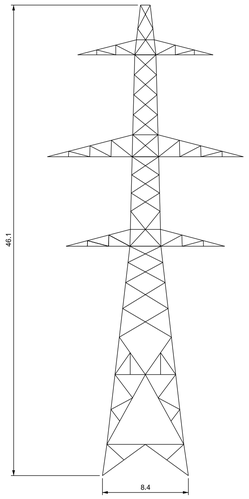


L2 D STD

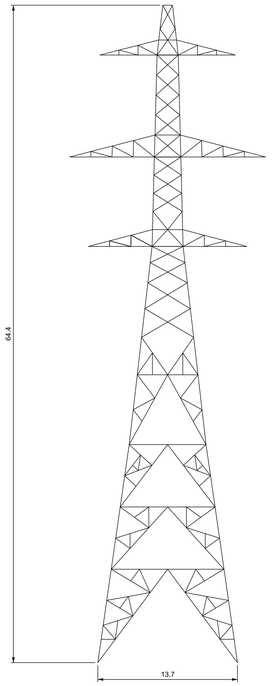


L2 D E20

EXISTING PYLON

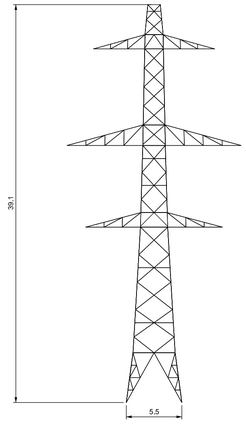


L6 J.L.EVE D M10

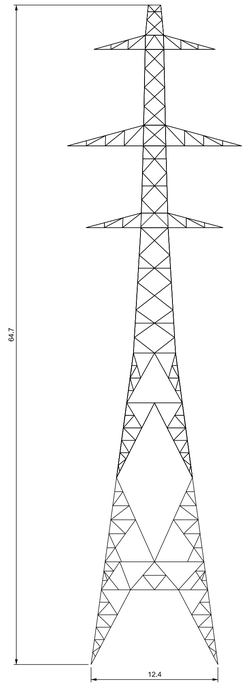


L6 J.L.EVE D E50

EXISTING PYLON

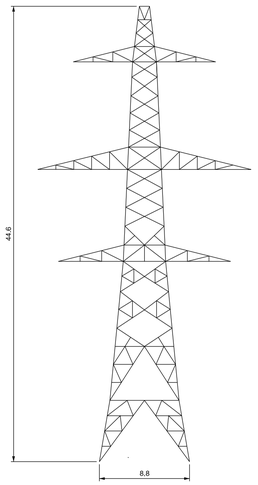


L8(c) D M7.3

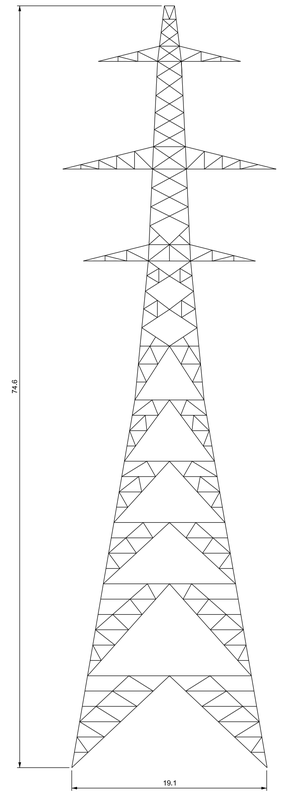


L8(c) D E18.3

PROPOSED PYLON



L6m D M6



L6m D E24

PROPOSED PYLON

Legend

N/A

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE.
2. PYLON LEG SPACING AT GROUND LEVEL ASSUMES LEVEL GROUND CONDITIONS.
3. MINIMUM AND MAXIMUM HEIGHTS FOR EXISTING PYLONS ARE BASED ON PYLONS ASSOCIATED WITH THE WORKS REQUIRED FOR THE PROPOSED DEVELOPMENT.
4. MIMIMUM AND MAXIMUM HEIGHTS FOR PROPOSED PYLONS ARE BASED ON THE EXTENTIONS AVAILABLE WITHIN THE PROPOSED PYLON SUITE.
5. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	DB	JL	CJ

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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE MIN-MAX LATTICE PYLONS
REGULATION 5(2)(o)
SHEET 6 OF 20

nationalgrid

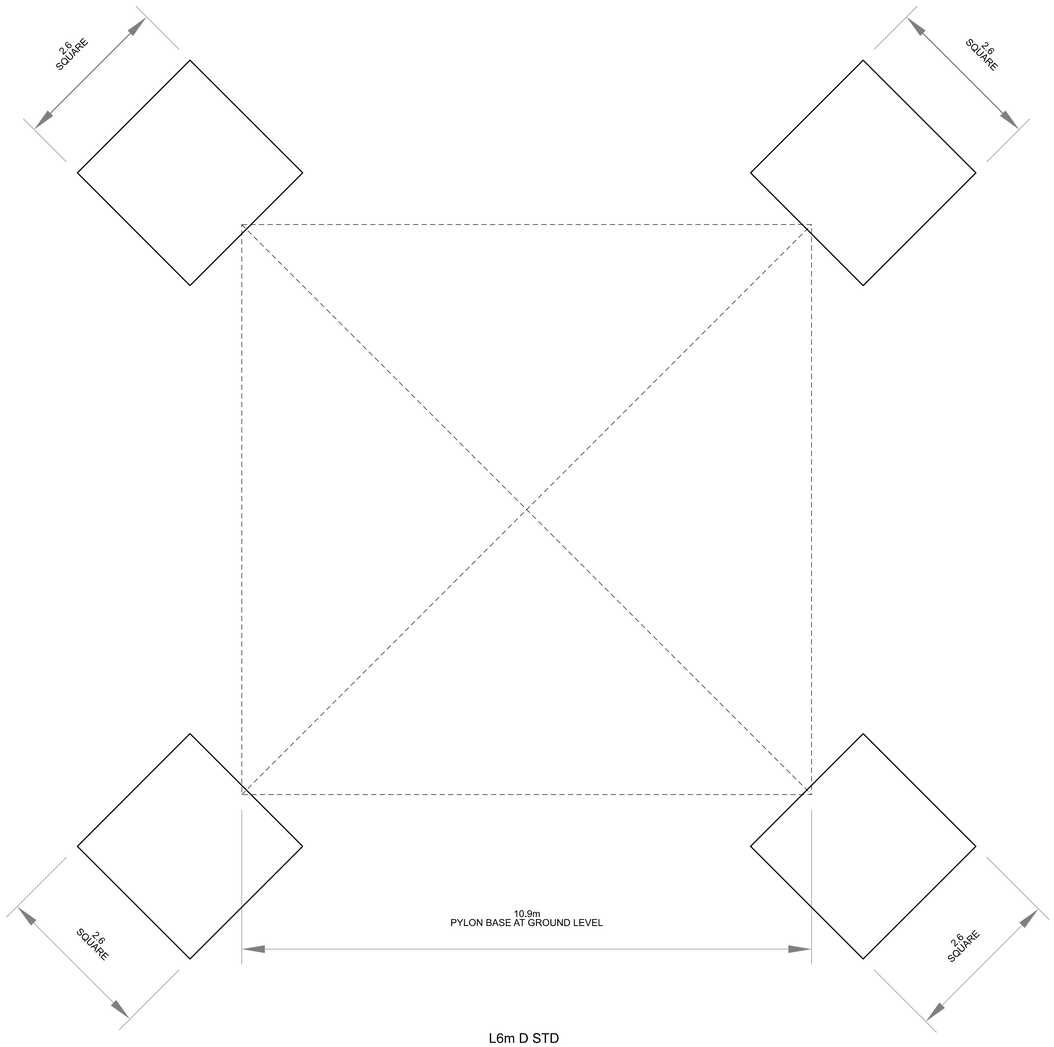
Application Number
EN020034

National Grid Drawing Reference
NHHM-LSTC-ENG-DWG-0049

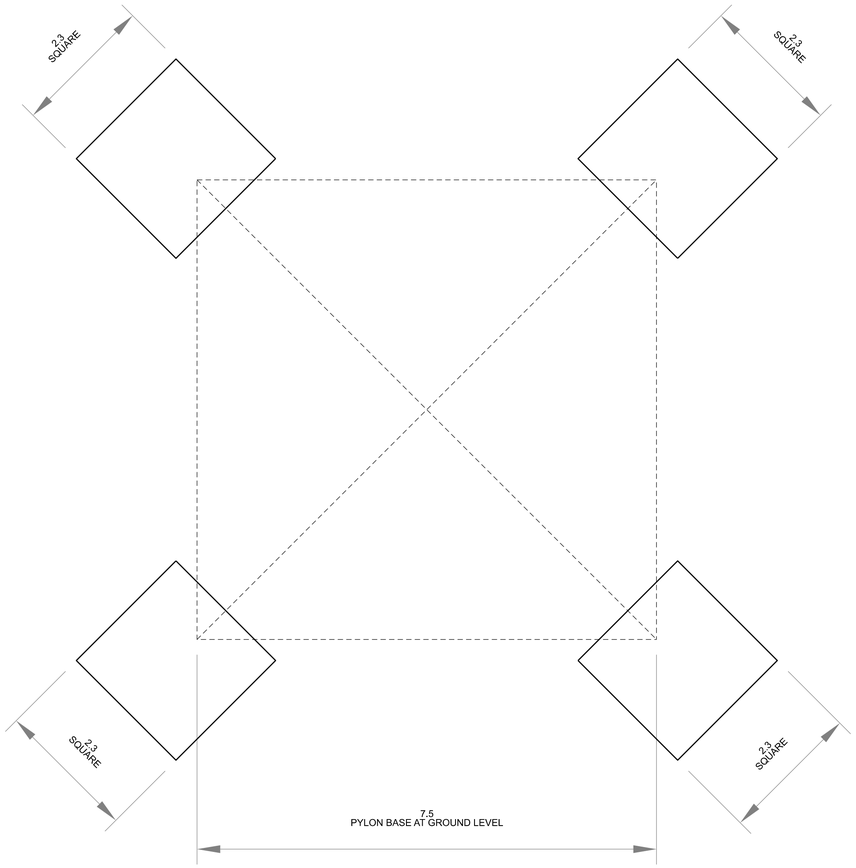
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N.T.S	N/A	SHEET 6 OF 20	A

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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLON FOOTPRINTS
REGULATION 5(2)(o)
SHEET 7 OF 20



L6m D STD



L8(c) D STD

Legend

PYLON FOOTPRINT

FOUNDATION
(BELOW GROUND LEVEL)

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. FOUNDATION FOOTPRINTS SHOWN ARE INDICATIVE ONLY BASED ON TYPICAL PAD & COLUMN FOUNDATION TYPE. THE FOOTPRINTS MAY VARY DEPENDING ON SITE SPECIFIC CONSTRAINTS, GROUND CONDITIONS AND FOUNDATION TYPE.
4. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLON FOOTPRINTS
REGULATION 5(2)(o)
SHEET 7 OF 20

nationalgrid

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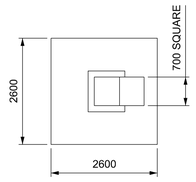
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLON FOUNDATIONS
REGULATION 5(2)(o)
SHEET 8 OF 20

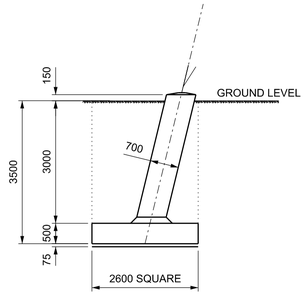
L6m D STD

PAD AND COLUMN FOUNDATION



PLAN VIEW

PAD AND COLUMN FOUNDATION



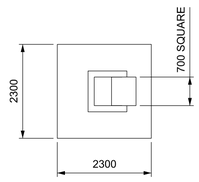
ELEVATION VIEW

PAD AND COLUMN FOUNDATION

CONCRETE = 5.1m³ per leg
EXCAVATION = 23.7m³ per leg

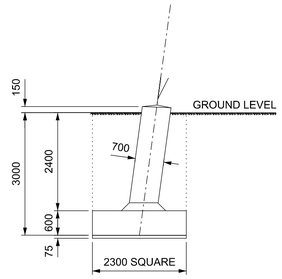
L8(c) D STD

PAD AND COLUMN FOUNDATION



PLAN VIEW

PAD AND COLUMN FOUNDATION

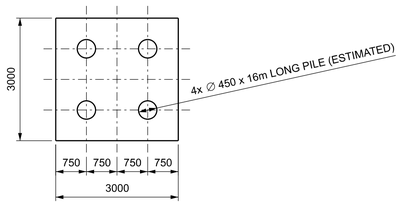


ELEVATION VIEW

PAD AND COLUMN FOUNDATION

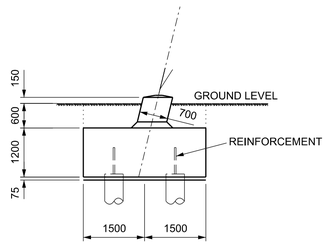
CONCRETE = 4.5m³ per leg
EXCAVATION = 15.9m³ per leg

TUBE PILE FOUNDATION



PLAN VIEW

TUBE PILE FOUNDATION

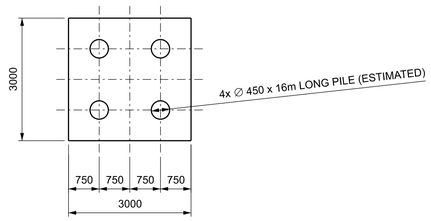


ELEVATION VIEW

TUBE PILE FOUNDATION

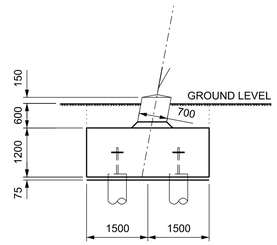
CONCRETE = 21.0m³ per leg
EXCAVATION = 16.2m³ per leg

TUBE PILE FOUNDATION



PLAN VIEW

TUBE PILE FOUNDATION



ELEVATION VIEW

TUBE PILE FOUNDATION

CONCRETE = 21.0m³ per leg
EXCAVATION = 16.2m³ per leg

Legend

SIDE OF EXCAVATION

GROUND LEVEL



PYLON STEELWORK CONNECTED TO ABOVE GROUND CONCRETE

Notes

1. ALL DIMENSIONS ARE INDICATED IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST.
3. FOUNDATION DESIGNS ARE CONCEPTUAL ONLY & SUBJECT TO FINAL DETAIL DESIGN.
4. CONCRETE VOLUMES EXCLUDE MINIMUM BLINDING DEPTHS.
5. DIMENSIONS ARE ESTIMATED AND WOULD BE SUBJECT TO GROUND CONDITIONS AS DETERMINED BY A GEOTECHNICAL INVESTIGATION.
6. PAD & COLUMN TYPE FOUNDATIONS ARE SUITABLE FOR STANDARD, COHESIVE / GRANULAR GROUND AS DEFINED BY NGTS 3.04.15
7. FOUNDATIONS DESIGNED IN ACCORDANCE WITH ACTUAL FOOTING LOADS AS PER PRELIMINARY DESIGN
8. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

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(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLON FOUNDATIONS
REGULATION 5(2)(o)
SHEET 8 OF 20

nationalgrid

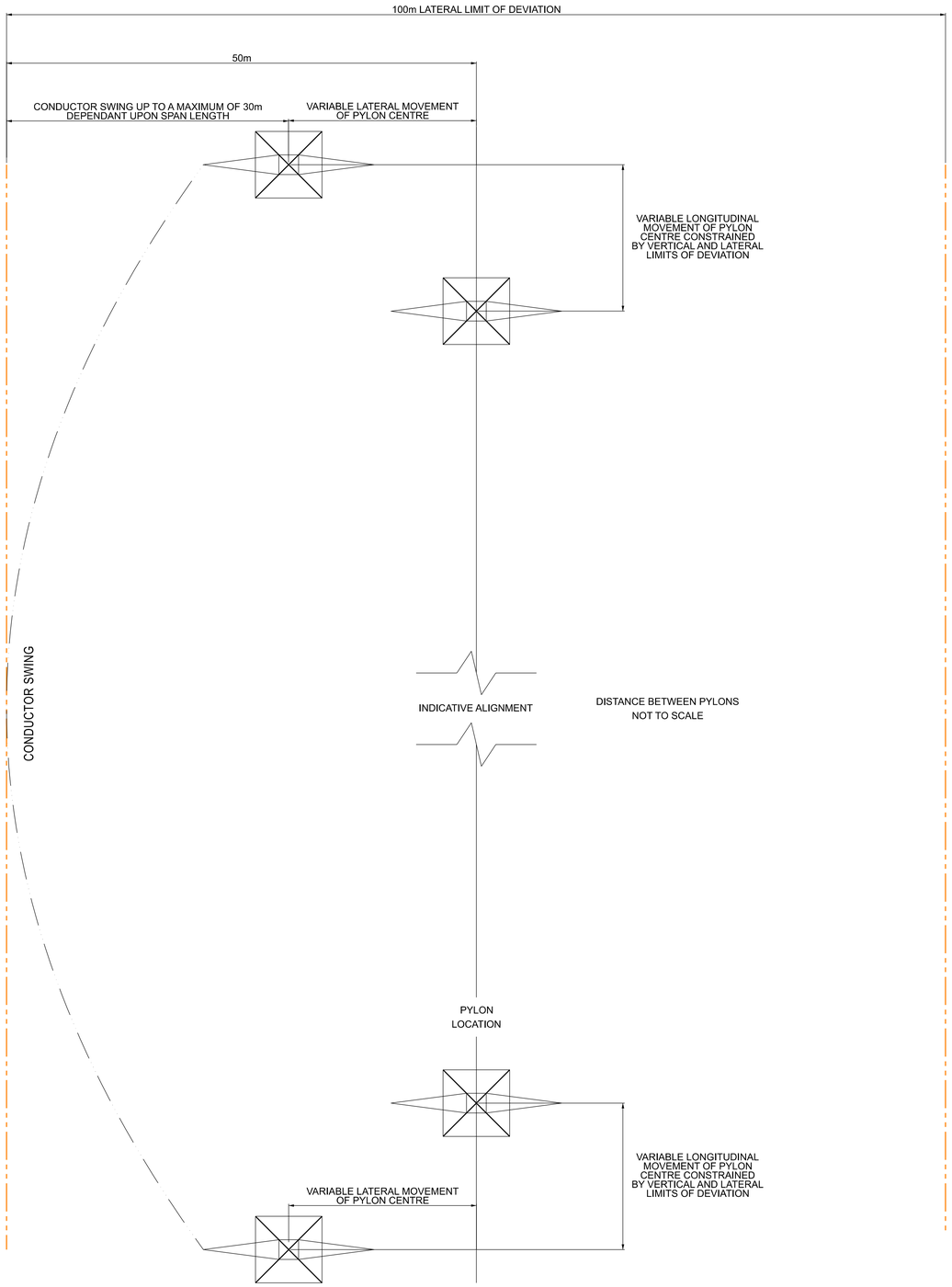
Application Number
EN020034

National Grid Drawing Reference
NHHM-LSTC-ENG-DWG-0049

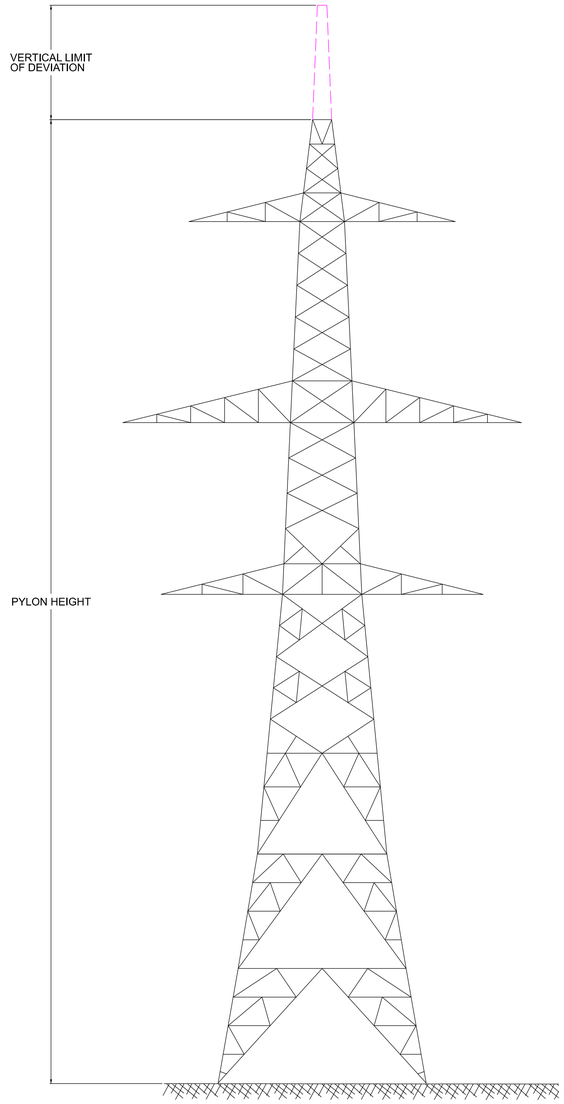
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE OVERHEAD LINE LIMITS OF DEVIATION
REGULATION 5(2)(o)
SHEET 9 OF 20



LATERAL AND LONGITUDINAL LIMITS OF DEVIATION



VERTICAL LIMIT OF DEVIATION

Legend

PYLON

POSITION OF OUTER OVERHEAD LINE CONDUCTOR IN CONDITIONS OF MAXIMUM SWING

HORIZONTAL LIMITS OF DEVIATION

VERTICAL LIMIT OF DEVIATION

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING SHOWS THE LIMITS OF DEVIATION OF PYLONS FROM THEIR INDICATIVE LOCATIONS. PYLONS MAY BE MOVED SUBJECT TO THESE LIMITS WHERE LOCAL CONSTRAINTS ARE IDENTIFIED PRIOR TO OR DURING CONSTRUCTION.
3. FOR PYLON VERTICAL LIMITS OF DEVIATION, PLEASE REFER TO THE DRAFT DEVELOPMENT CONSENT ORDER IN VOLUME 3 OF THE DCO APPLICATION AND THE ENVIRONMENTAL STATEMENT IN VOLUME 6 OF THE DCO APPLICATION.
4. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	DB	JL	CJ

Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE OVERHEAD LINE LIMITS OF DEVIATION
REGULATION 5(2)(o)
SHEET 9 OF 20

nationalgrid

Application Number
EN020034

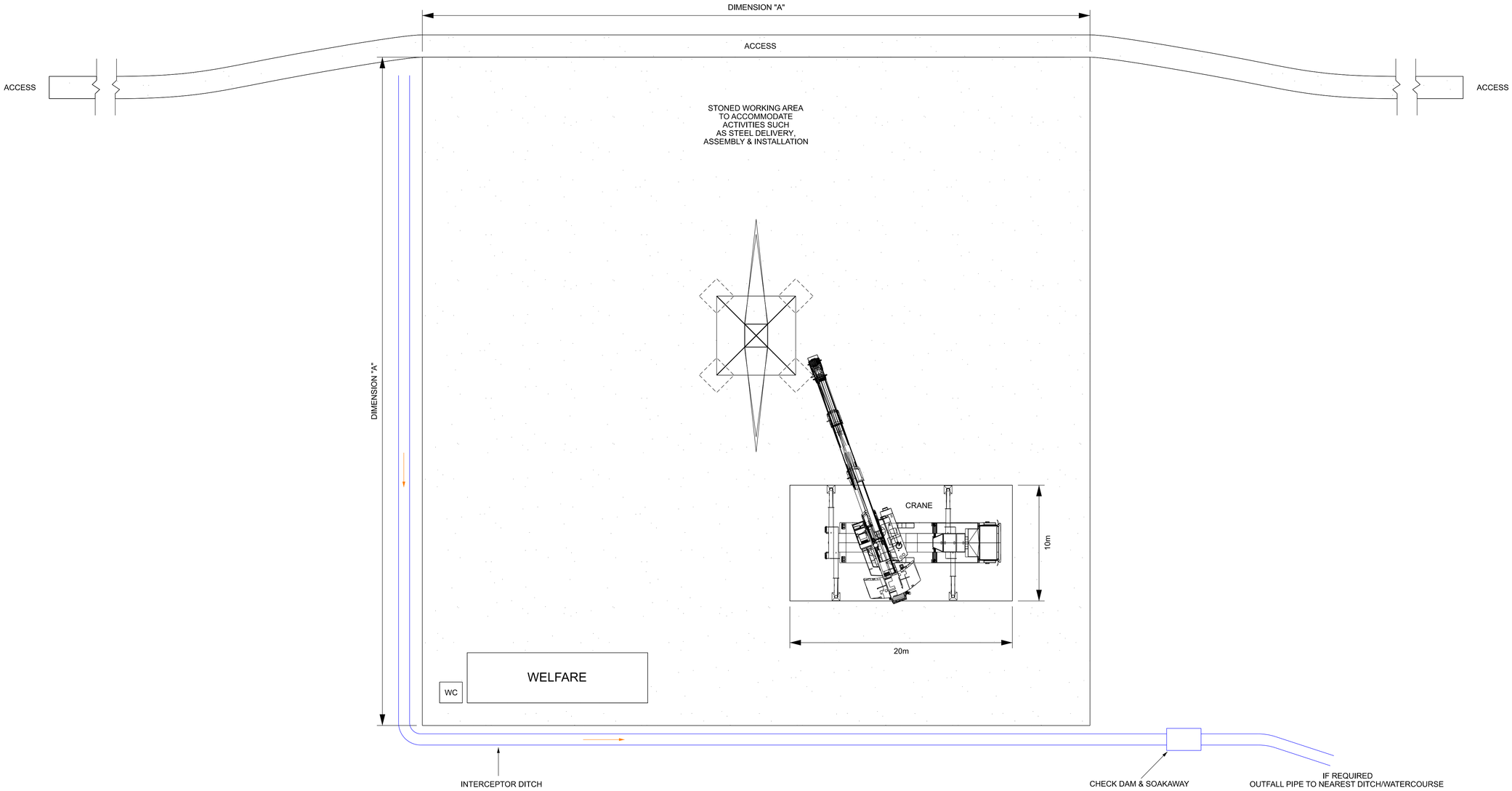
National Grid Drawing Reference
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLON WORKING AREA
REGULATION 5(2)(o)
SHEET 10 OF 20

TOWER TYPE	DIMENSION "A"
SUSPENSION	60m
ANGLE	70m



Legend

PYLON

FOUNDATION
(BELOW GROUND LEVEL)

INTERCEPTOR DITCH

WORKING AREA / ACCESS
(STONED)

DOWNSTREAM DIRECTION

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING SHOWS AN INDICATIVE WORKING AREA DURING PYLON INSTALLATION.
3. SOIL STORAGE CAN BE OUTSIDE OF THE WORKING AREA.
4. ACCESS WILL TYPICALLY EXTEND BEYOND THE AREA REPRESENTED IN THIS DRAWING.
5. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	DB	JL	CJ

Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLON WORKING AREA
REGULATION 5(2)(o)
SHEET 10 OF 20

nationalgrid

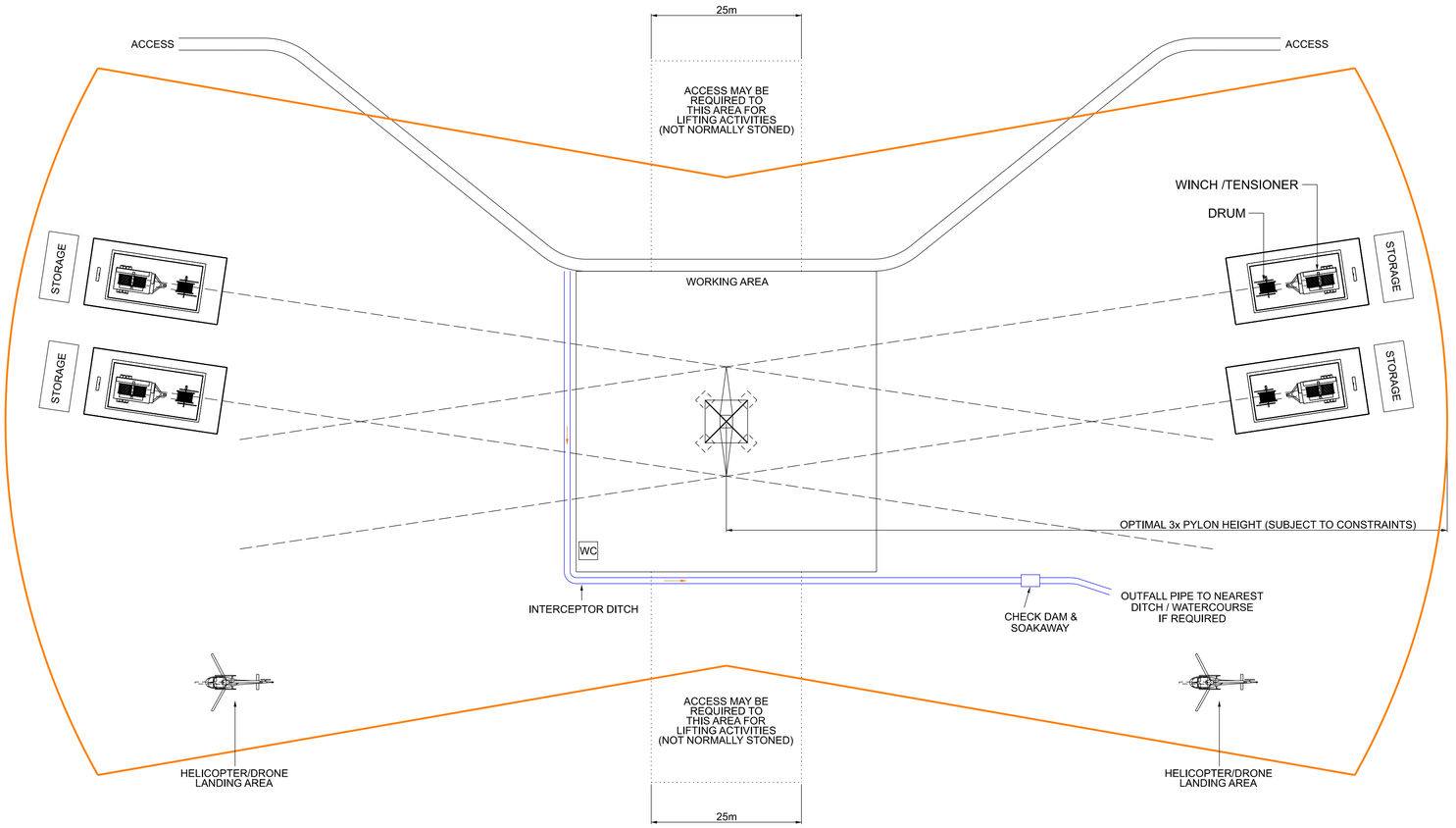
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National Grid Drawing Reference
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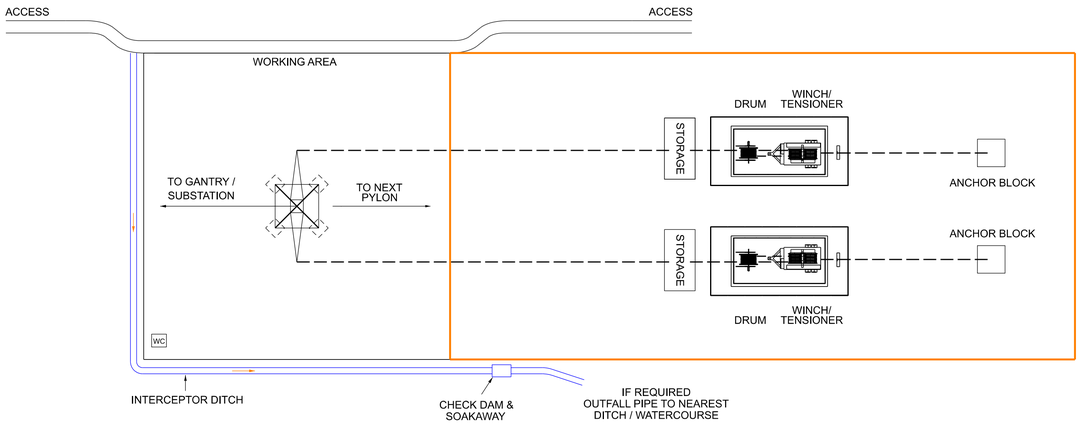
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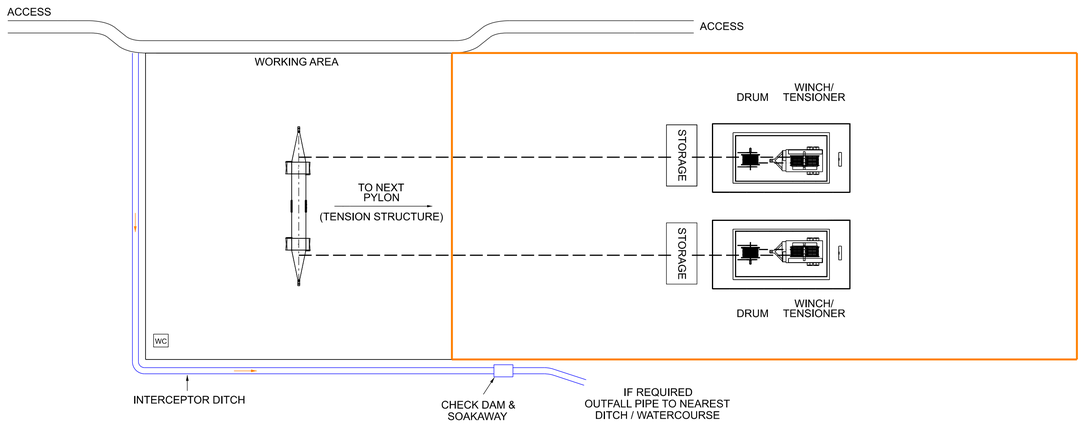
THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLON CONDUCTOR STRINGING POSITIONS
REGULATION 5(2)(o)
SHEET 11 OF 20



ARRANGEMENT AT ANGLE PYLON



ARRANGEMENT AT TERMINAL PYLON



ARRANGEMENT AT SFT (SINGLE CIRCUIT FLAT FORMATION) TOWER

Legend

- PYLON
- FOUNDATION (BELOW GROUND LEVEL)
- ACCESS TRACK/ROAD
- INTERCEPTOR DITCH
- OHL CONDUCTORS
- CONDUCTOR STRINGING POSITION
- DOWNSTREAM DIRECTION

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE.
2. FOR TERMINAL PYLON, EQUIPMENT FOR STRINGING ACTIVITY IS SHOWN ON THE RIGHT-HAND SIDE, HOWEVER THIS CAN BE REVERSED.
3. THIS DRAWING SHOWS A CONDUCTOR STRINGING AREA DURING CONDUCTOR INSTALLATION.
4. STRINGING POSITIONS COULD BE USED AS HELICOPTER/DRONE LANDING AREAS.
5. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	DB	JL	CJ

Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE LATTICE PYLON CONDUCTOR STRINGING POSITIONS
REGULATION 5(2)(o)
SHEET 11 OF 20

nationalgrid

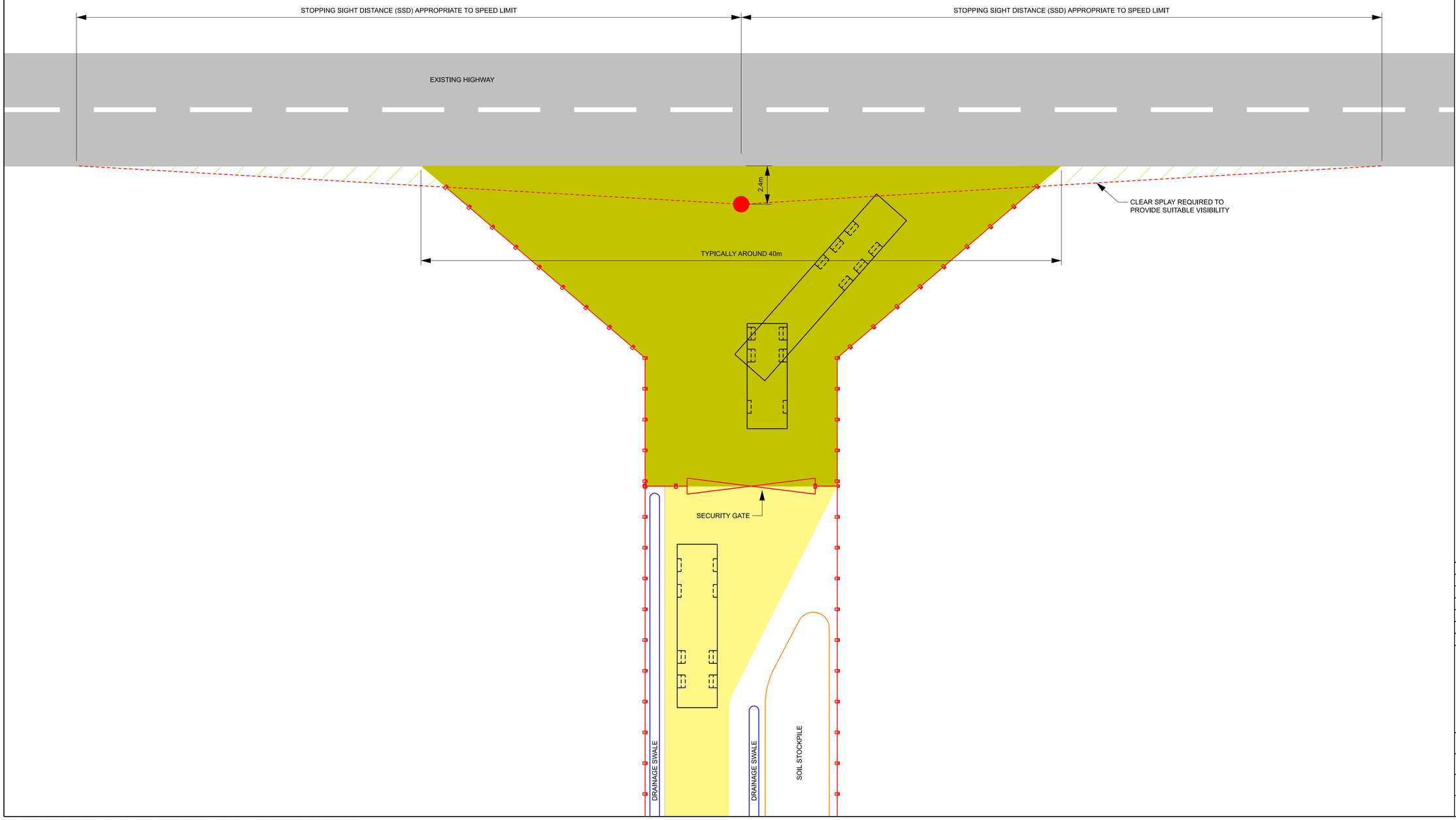
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National Grid Drawing Reference
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE ACCESS BELLMOUTH AND VISIBILITY SPLAY
REGULATION 5(2)(o)
SHEET 12 OF 20



Legend

- VISIBILITY SPLAY
- PROPOSED SECURITY FENCE
- SECURITY GATE
- TIPPER TRUCK
- ARTICULATED LOW LOADER
- ZONE OF VISIBILITY
- BELLMOUTH
- ACCESS ROAD

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST
3. THE PROPOSED ARRANGEMENT IS SHOWN FOR INDICATIVE PURPOSES ONLY, DIMENSIONS AND DESIGN MAY VARY ACCORDING TO SITE CONDITIONS AND CONSTRUCTION ACCESS REQUIREMENTS.
4. BELLMOUTH DESIGN HAS BEEN BASED ON THE DESIGN MANUAL FOR ROADS & BRIDGES (DMRB)
5. THE DRAWING DOES NOT INCLUDE ANY INFORMATION ON BELLMOUTH OR HIGHWAY DRAINAGE, UTILITIES, OR OTHER ASSETS WHICH MAY NEED TO BE PROTECTED OR DIVERTED AS PART OF THE WORKS, THESE WILL BE DETERMINED IN THE DETAILED DESIGN.
6. DETAILS OF ANY SIGNAGE, LINING, SURFACING, OR OTHER HIGHWAYS INFRASTRUCTURE ASSOCIATED WITH BELLMOUTH CONSTRUCTION SUBJECT TO AGREEMENT WITH THE RELEVANT LOCAL HIGHWAY AUTHORITY.
7. FOR DETAILS OF ACCESS ROAD BEYOND THIS POINT, REFER TO TYPICAL ACCESS ROAD CROSS SECTION DRAWING.
8. VEGETATION CLEARANCE AND/OR GROUNDWORKS MAY BE REQUIRED TO FACILITATE MINIMUM SIGHT DISTANCES, VISIBILITY SPLAY DEPTH TAKEN AS 2.4m, AS SET OUT FOR A SIMPLE PRIORITY JUNCTION IN DESIGN MANUAL FOR ROADS AND BRIDGES DOCUMENT CD 123 PARAGRAPH 3.8 (2B).
9. VISIBILITY SPLAYS SUBJECT TO SITE SPECIFIC CONDITIONS.
10. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.
11. SSD (STOPPING SIGHT DISTANCE) TABLE

MPH	KPH (exact)	KPH (rounded)	SSD (m) per kph
30	48	50	70
37	60	60	90
40	64	70	120
50	80	80	160
60	97	100	215

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	DB	JL	CJ

Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE ACCESS BELLMOUTH
AND VISIBILITY SPLAY
REGULATION 5(2)(o)
SHEET 12 OF 20

nationalgrid

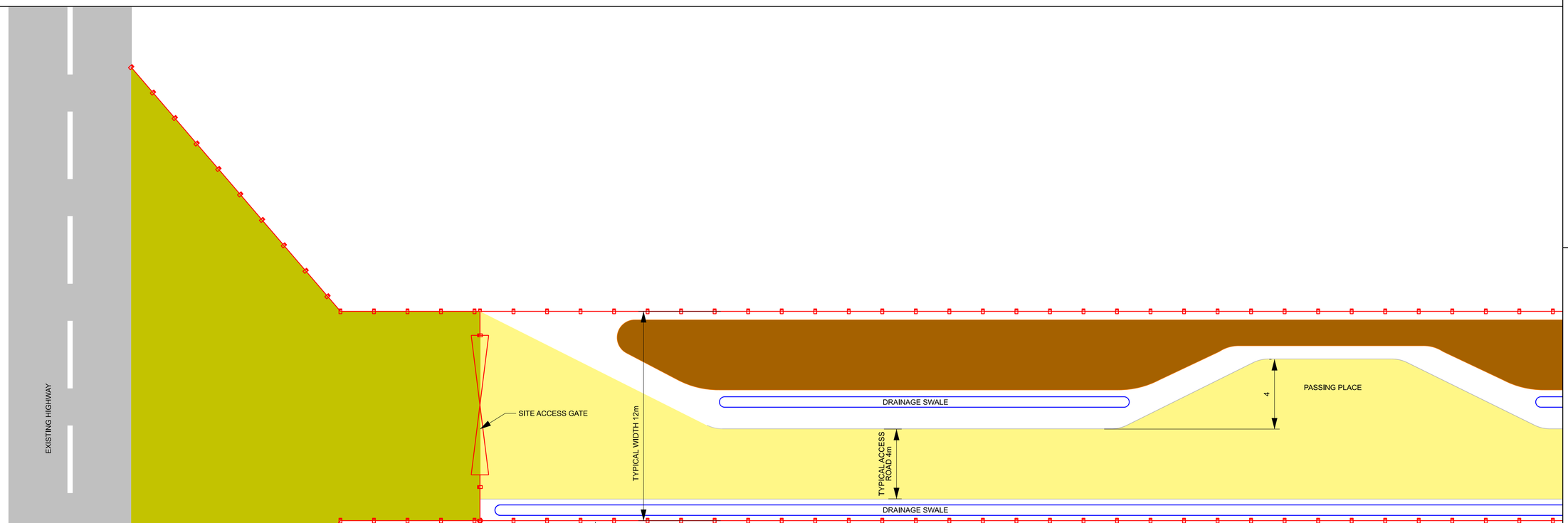
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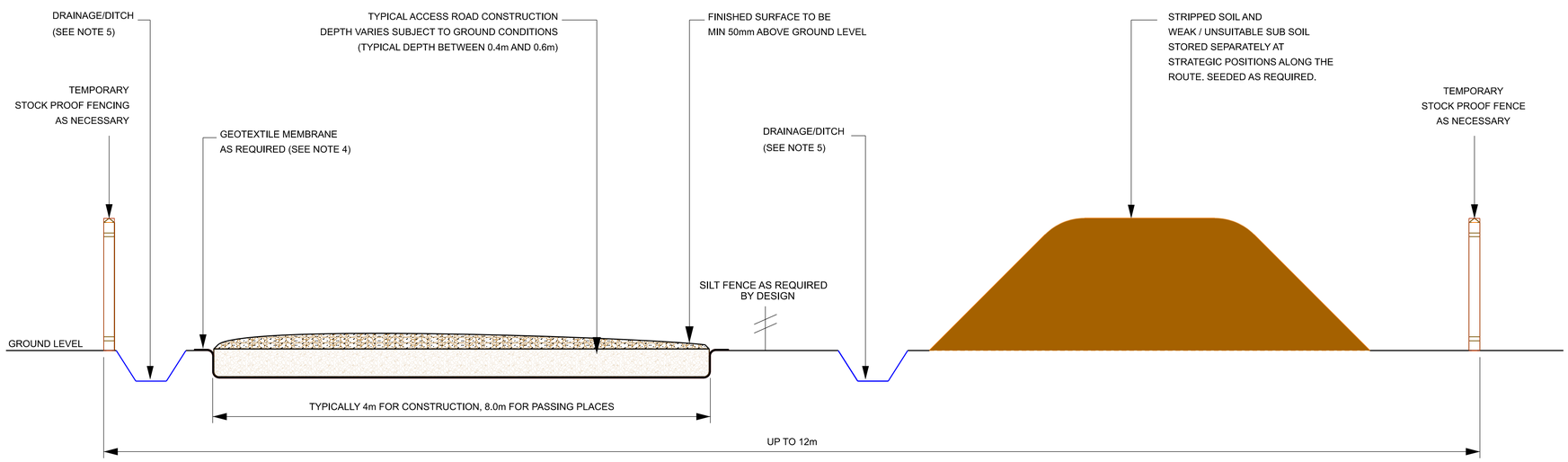
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE STONE ACCESS ROAD
REGULATION 5(2)(o)
SHEET 13 OF 20



PLAN VIEW



TYPICAL ACCESS ROAD CROSS SECTION

Legend

- FINISHING SURFACE
- SUB BASE CAPPING
- SOIL STOCKPILE
- DRAINAGE SWALE
- FENCE
- BELLMOUTH
- ACCESS ROAD

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING SHOWS THE TYPICAL STONE ROAD CONSTRUCTION, WHICH WILL BE USED TO REACH CONSTRUCTION AREAS SUCH AS PYLON WORKING AREAS
3. GEOTEXTILE IS A VERY THIN WOVEN PERMEABLE SYNTHETIC SHEET WHICH STOPS AGGREGATES MIGRATING INTO THE EXISTING GROUND.
4. CROSS DRAINS MAY BE REQUIRED WHERE ROADS BLOCK EXISTING SURFACE RUN OFF
5. DAMS CONSTRUCTED FROM GRAVEL, STRAW BALES AND / OR SILT NETTING MAY BE PROVIDED IN THE DITCHES TO SLOW AND TREAT FLOWS.
6. EXISTING TOPSOIL UNDER THE PROPOSED SUBSOIL BUND TO BE STRIPPED PRIOR TO CREATION OF THE SUBSOIL BUND. THIS IS TO MITIGATE THE RISK OF CONTAMINATION BETWEEN SOIL TYPES.
7. SOIL STOCKPILE FOOTPRINTS BASED ON ASSUMED TYPICAL EXCAVATION FOR HAUL ROAD AND STOCKPILE STACK ANGLE, ASSUMING A 30% BULKING FACTOR. SUBSOIL BUND PROPOSED TO BE ADJACENT TO SWALE AS EXCAVATED AFTER TOPSOIL, WITH TOPSOIL BUND LOCATED ADJACENT TO FENCE LINE.
8. STOCKPILES CAN ALSO BE LOCATED OUTSIDE OF THE ACCESS SWATHE, WITHIN THE ORDER LIMITS.
9. FOR PROPOSED ACCESS BELLMOUTH DETAILS SEE TYPICAL ACCESS BELLMOUTH AND VISIBILITY SPLAY DRAWING.
10. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	DB	JL	CJ

Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE STONE ACCESS ROAD
REGULATION 5(2)(o)
SHEET 13 OF 20

nationalgrid

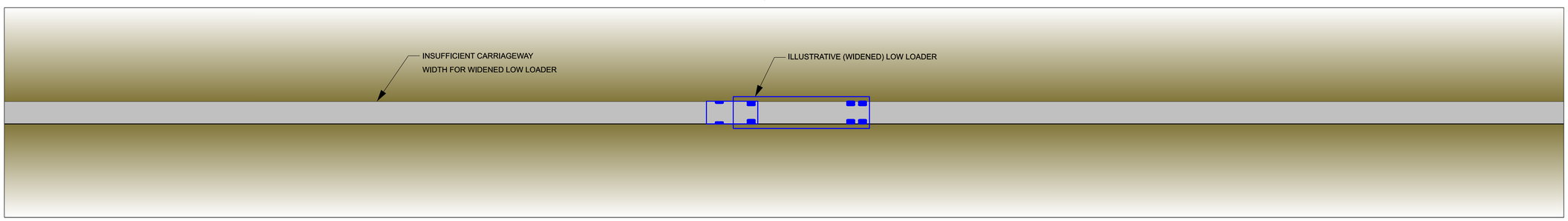
Application Number
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National Grid Drawing Reference
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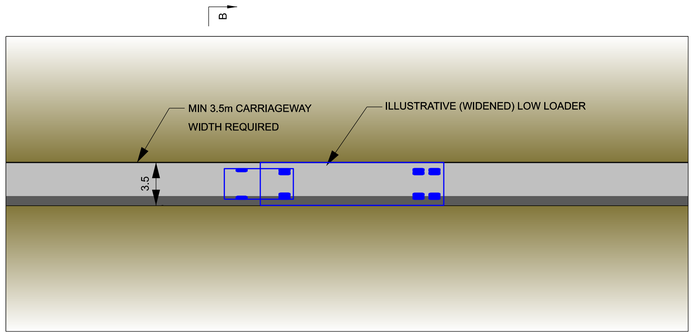
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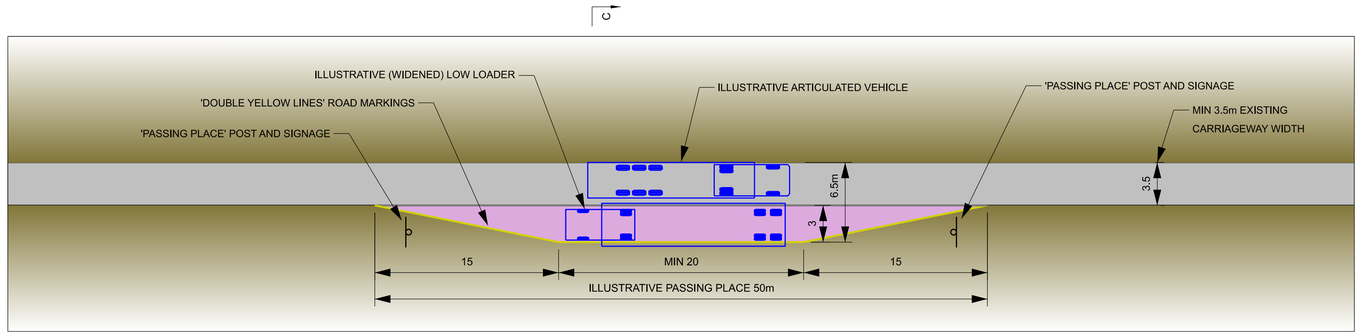
THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE PASSING PLACE ARRANGEMENT
REGULATION 5(2)(o)
SHEET 14 OF 20



PLAN VIEW (EXISTING ARRANGEMENT)



PLAN VIEW (ROAD WIDENING)



PLAN VIEW (PASSING PLACE)

SCALE 1:250

SCALE 1:25



SECTION A-A



SECTION B-B



SECTION C-C

Legend

- VERGE
- CARRIAGEWAY
- LOCALISED CARRIAGEWAY WIDENING (VARIABLE)
- PASSING PLACE

VEHICLES TRACKED:

WIDENED FTA DESIGN ARTICULATED VEHICLE (2016)
OVERALL LENGTH: 16.480M
OVERALL WIDTH: 2.900M
MAX TRACK WIDTH: 2.470M
KERB TO KERB TURNING RADIUS: 6.600M
WIDENED GENERIC LOW LOADER WITH TRAILER STEERING
OVERALL LENGTH: 17.918M
OVERALL WIDTH: 3.500M
MAX TRACK WIDTH: 2.520M
KERB TO KERB TURNING RADIUS: 6.350M
LIEBHERR LTM 1250-6.1 MOBILE CRANE (6-AXLE CRANE)
OVERALL LENGTH: 17.835M
OVERALL WIDTH: 3.000M
TRACK WIDTH: 3.000M
KERB TO KERB TURNING RADIUS: 11.624M
LIEBHERR LTM 1500-8.1 MOBILE CRANE (8-AXLE CRANE)
OVERALL LENGTH: 21.380M
OVERALL WIDTH: 3.000M
TRACK WIDTH: 3.000M
KERB TO KERB TURNING RADIUS: 13.404M

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (M) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST
3. ILLUSTRATIVE DETAILS FOR WIDENING AND PASSING PLACES APPLY TO BOTH TEMPORARY AND PERMANENT CONSTRUCTION. TEMPORARY WIDENING AND PASSING PLACES TO BE REMOVED AND REINSTATED TO AN AGREED CONDITION ON COMPLETION.
4. DIMENSIONS AND DESIGN MAY VARY DEPENDING UPON SITE AND INSTALLATION CONDITIONS.
5. THE DESIGN IS BASED ON THE REQUIREMENTS OF THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB).
6. THE CONSTRUCTION AND TIE-IN OF TEMPORARY WIDENINGS, PASSING PLACES OR BELLMOUTHS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL HIGHWAY AUTHORITY STANDARD DETAILS OR SPECIFICATIONS.
7. DETAILS OF ANY SIGNAGE, LINING, SURFACING OR OTHER HIGHWAYS INFRASTRUCTURE ASSOCIATED WITH BELLMOUTH CONSTRUCTION AND ROAD WIDENING WILL BE SUBJECT TO AGREEMENT WITH THE LOCAL HIGHWAY AUTHORITY IN DETAILED DESIGN STAGE.
8. VEGETATION CLEARANCE AND/OR GROUNDWORKS MAY BE REQUIRED TO FACILITATE MINIMUM SIGHT DISTANCES.
9. THE DRAWING DOES NOT INCLUDE ANY INFORMATION ON HIGHWAY DRAINAGE, UTILITIES, OR OTHER ASSETS WHICH MAY NEED TO BE PROTECTED OR DIVERTED AS PART OF WORKS.
10. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	JDH	JL	CJ

Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE PASSING PLACE ARRANGEMENT
REGULATION 5(2)(o)
SHEET 14 OF 20

nationalgrid

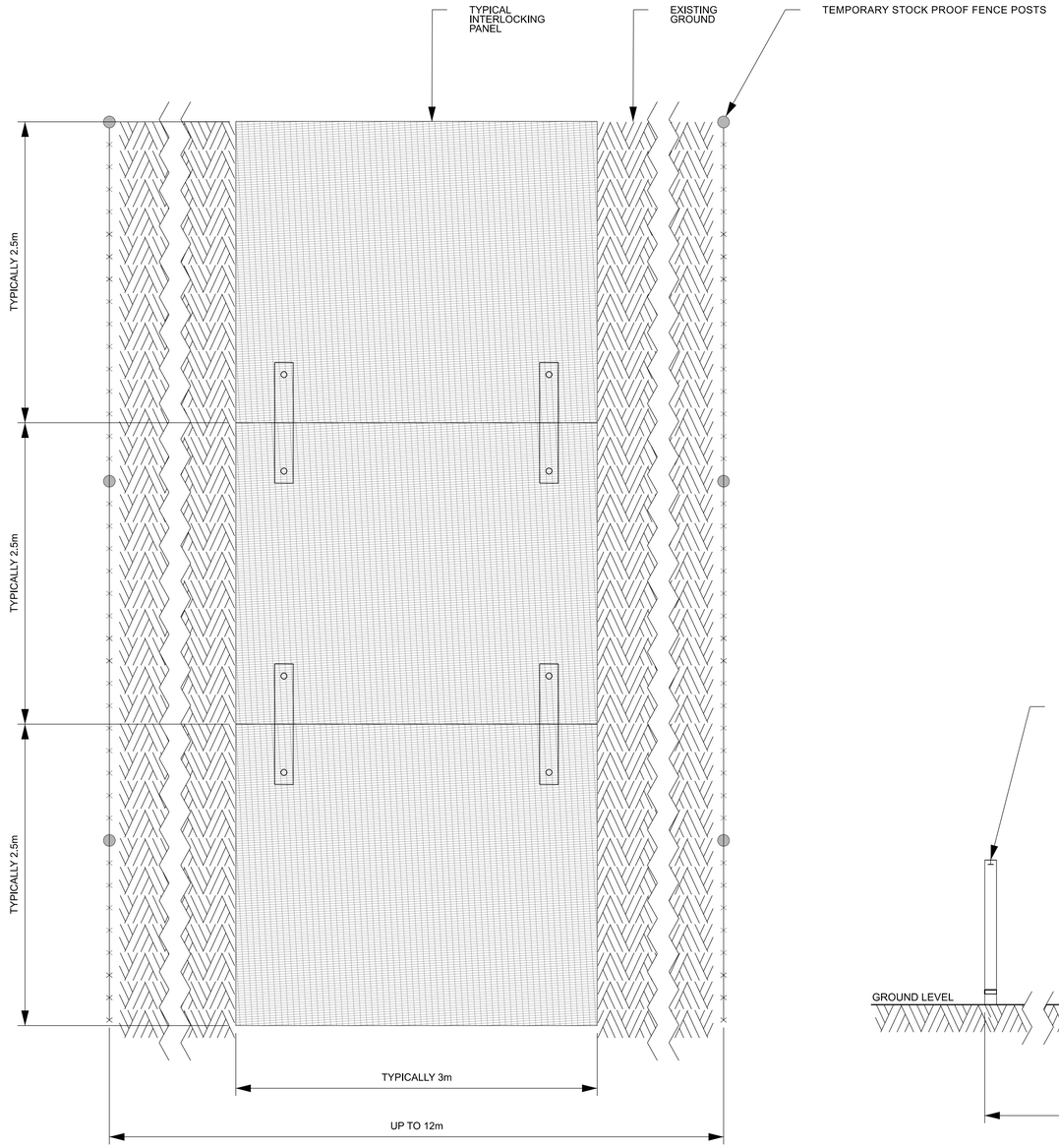
Application Number
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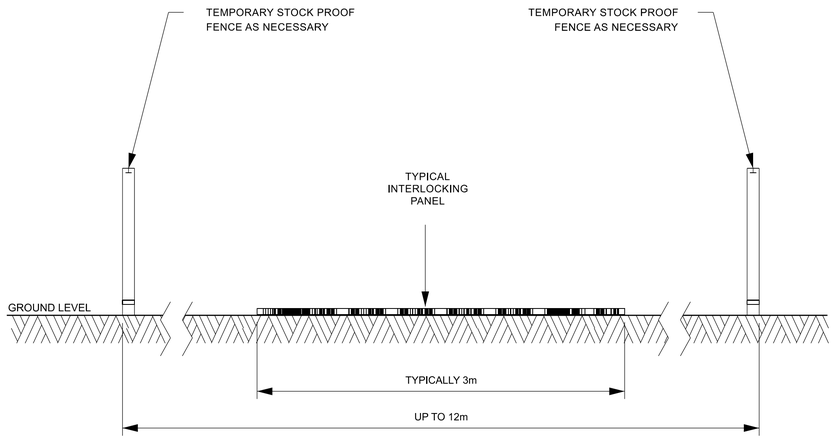
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE INTERLOCKING PANEL ACCESS
REGULATION 5(2)(o)
SHEET 15 OF 20



PLAN VIEW



ELEVATION VIEW

Legend

EXISTING GROUND

TYPICAL INTERLOCKING PANEL

TEMPORARY STOCK PROOF FENCE

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. THIS DRAWING IS SCALED AT PAPER SIZE A1, THEREFORE ANY PRINTS TAKEN AT SMALLER SIZES WILL AFFECT ACCURACY OF THE MEASUREMENT UNITS AND SHOULD NOT BE SCALED AGAINST
3. WHEN SOFT GROUND IS ENCOUNTERED, ADDITIONAL PANELS TO BE USED IN ACCORDANCE WITH MANUFACTURERS GUIDELINES.
4. INTERLOCKING PANELS WIDEN AT PASSING LOCATIONS AND MAY BE DOUBLE STACKED IN POOR GROUND CONDITIONS.
5. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	DB	JL	CJ

Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE INTERLOCKING PANEL ACCESS
REGULATION 5(2)(o)
SHEET 15 OF 20

nationalgrid

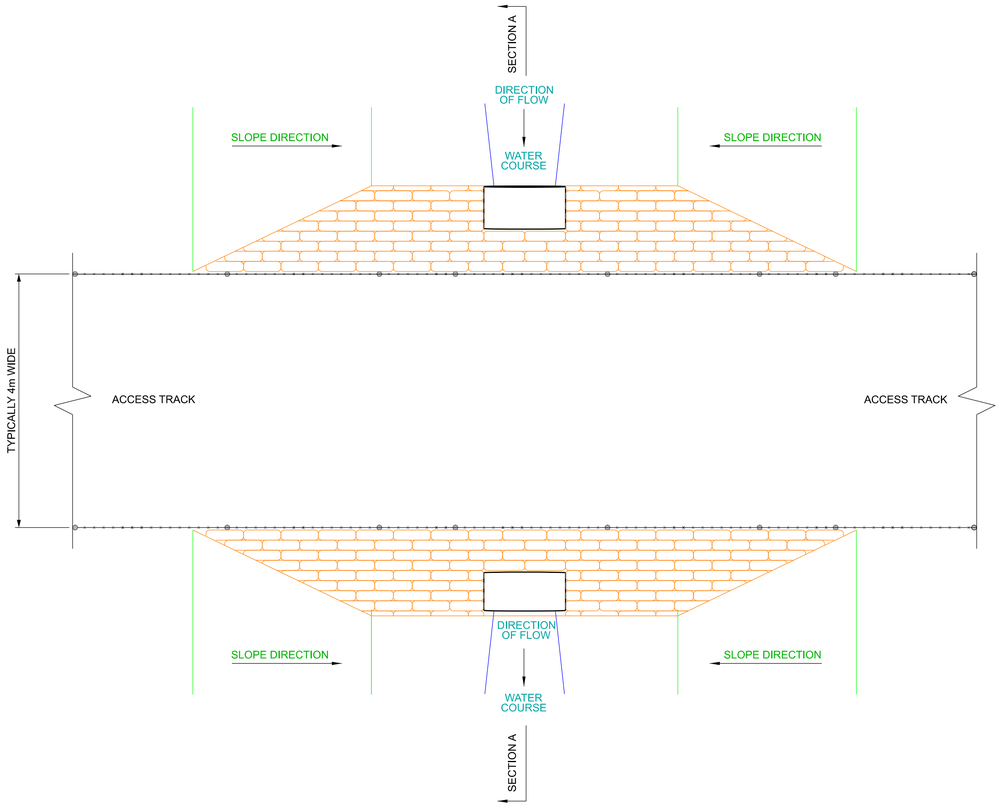
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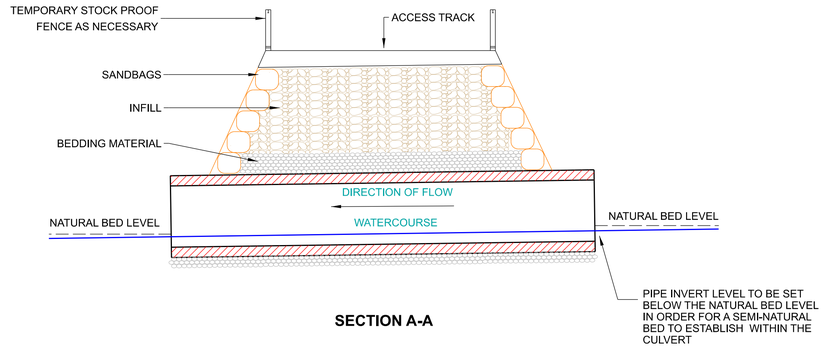
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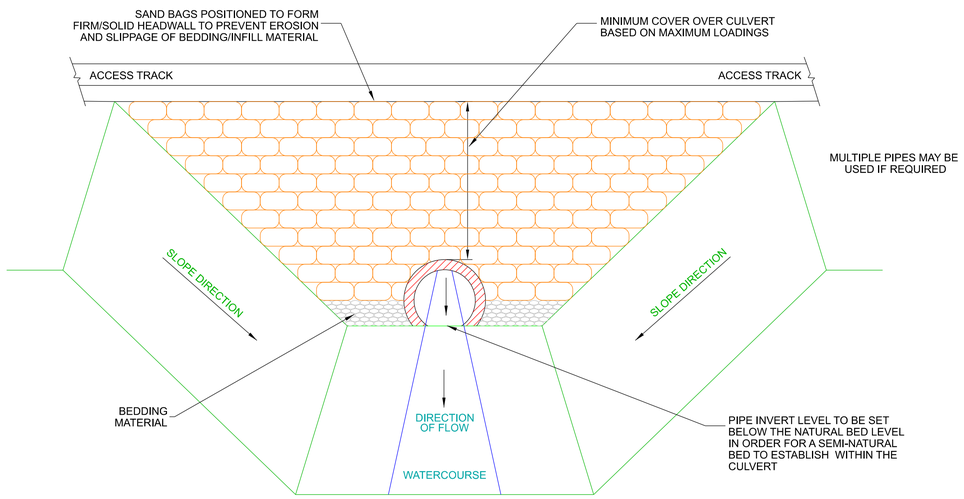
THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE CULVERT DETAILS FOR WATERCOURSE CROSSINGS
REGULATION 5(2)(o)
SHEET 16 OF 20



PLAN VIEW



SECTION A-A



PERSPECTIVE VIEW

Legend

SANDBAG
INFILL
BEDDING MATERIAL
WATER
FENCELINE
PIPE

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES(m) UNLESS NOTED OTHERWISE.
2. FENCE OMIITED FOR CLARITY IN PLAN VIEW AND PERSPECTIVE VIEW.
3. SIZING OF CULVERT TO BE SITE SPECIFIC. IF CULVERT IS TEMPORARY, 1 IN 100 FLOOD EVENT WILL BE CONSIDERED.
4. BURYING THE CULVERT INVERT TO ALLOW A NATURAL BED TO FORM, WOULD NECESSITATE OVER-SIZING THE CULVERT.
5. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	DB	JL	CJ

Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE CULVERT DETAILS
FOR WATERCOURSE CROSSINGS
REGULATION 5(2)(o)
SHEET 16 OF 20

nationalgrid

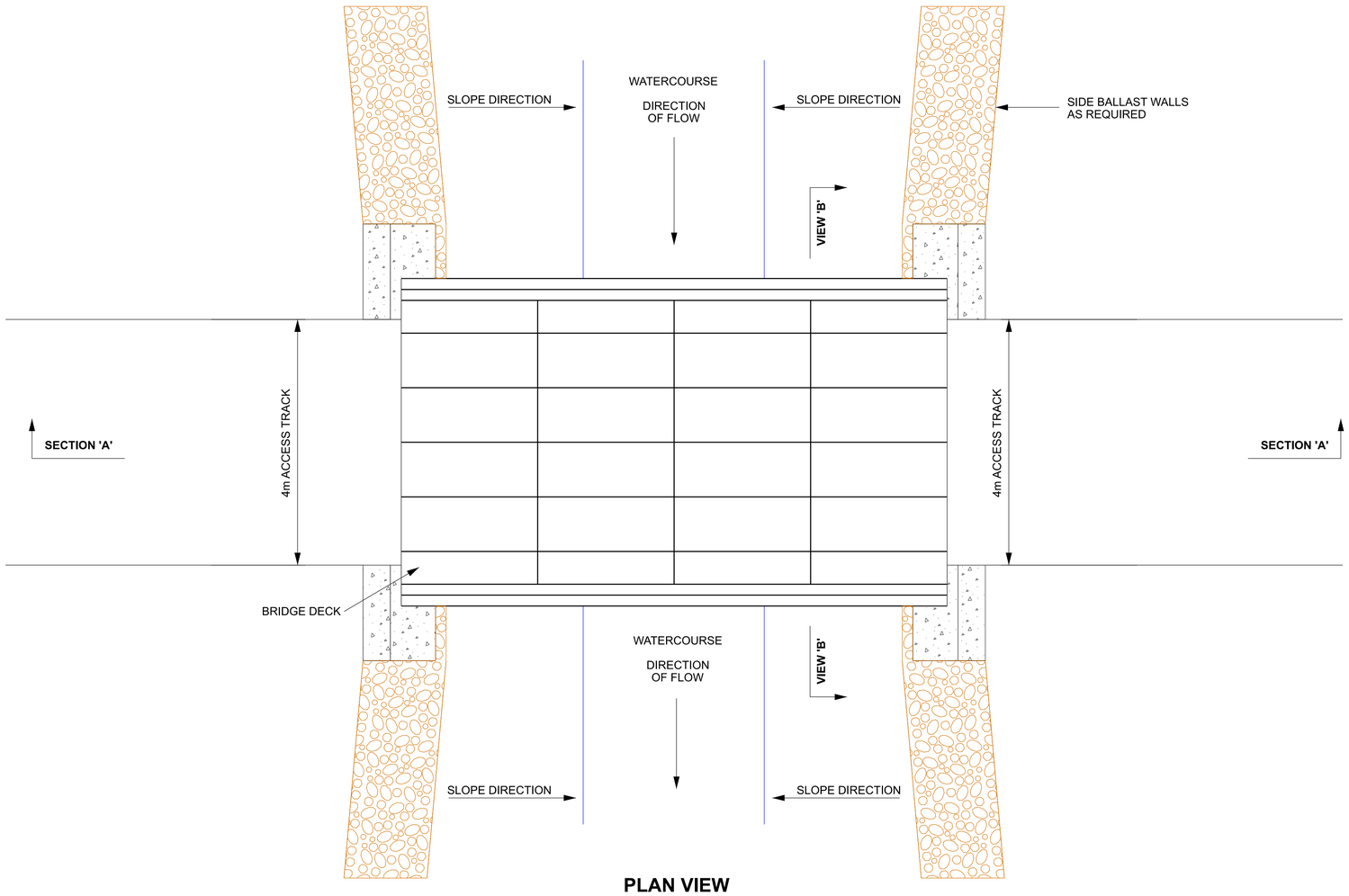
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National Grid Drawing Reference
NHHM-LSTC-ENG-DWG-0049

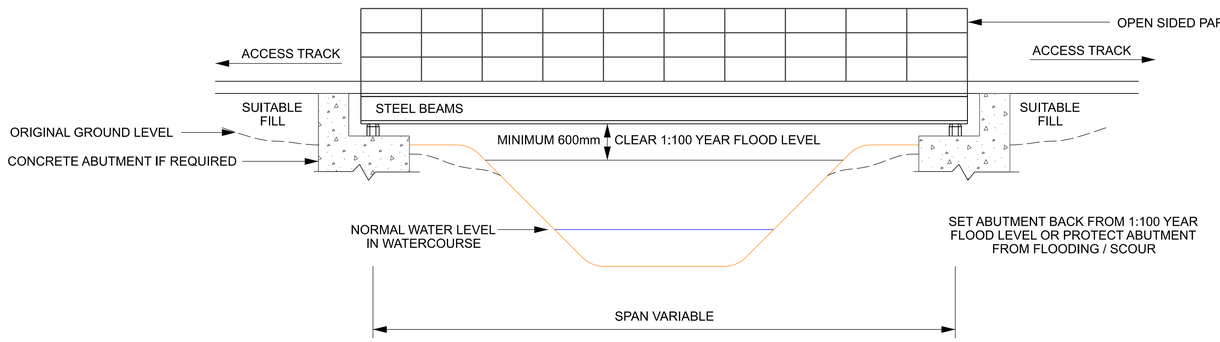
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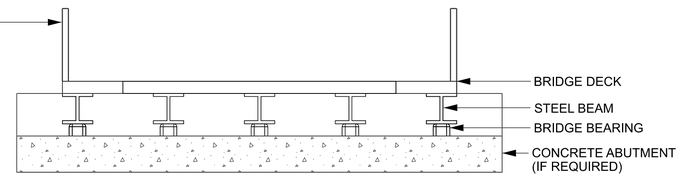
THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE BRIDGE DETAILS FOR WATERCOURSE CROSSINGS
REGULATION 5(2)(o)
SHEET 17 OF 20



PLAN VIEW



SECTION A-A



VIEW B-B

Legend

- CONCRETE OR SUITABLE ALTERNATIVE
- BALLAST WALLS
- WATER

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. ALTERNATIVE MATERIALS CAN BE USED TO CONCRETE ABUTMENTS, IF REQUIRED.
3. DEPENDING ON SITE SPECIFIC CONDITIONS A MODULAR ACCESS BRIDGE COULD BE USED.
4. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

Issue	Date	Remarks	Drawn	Checked	Approved
A	OCT 2026	FOR DCO SUBMISSION	DB	JL	CJ

Title

THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE BRIDGE DETAILS
FOR WATERCOURSE CROSSINGS
REGULATION 5(2)(o)
SHEET 17 OF 20

nationalgrid

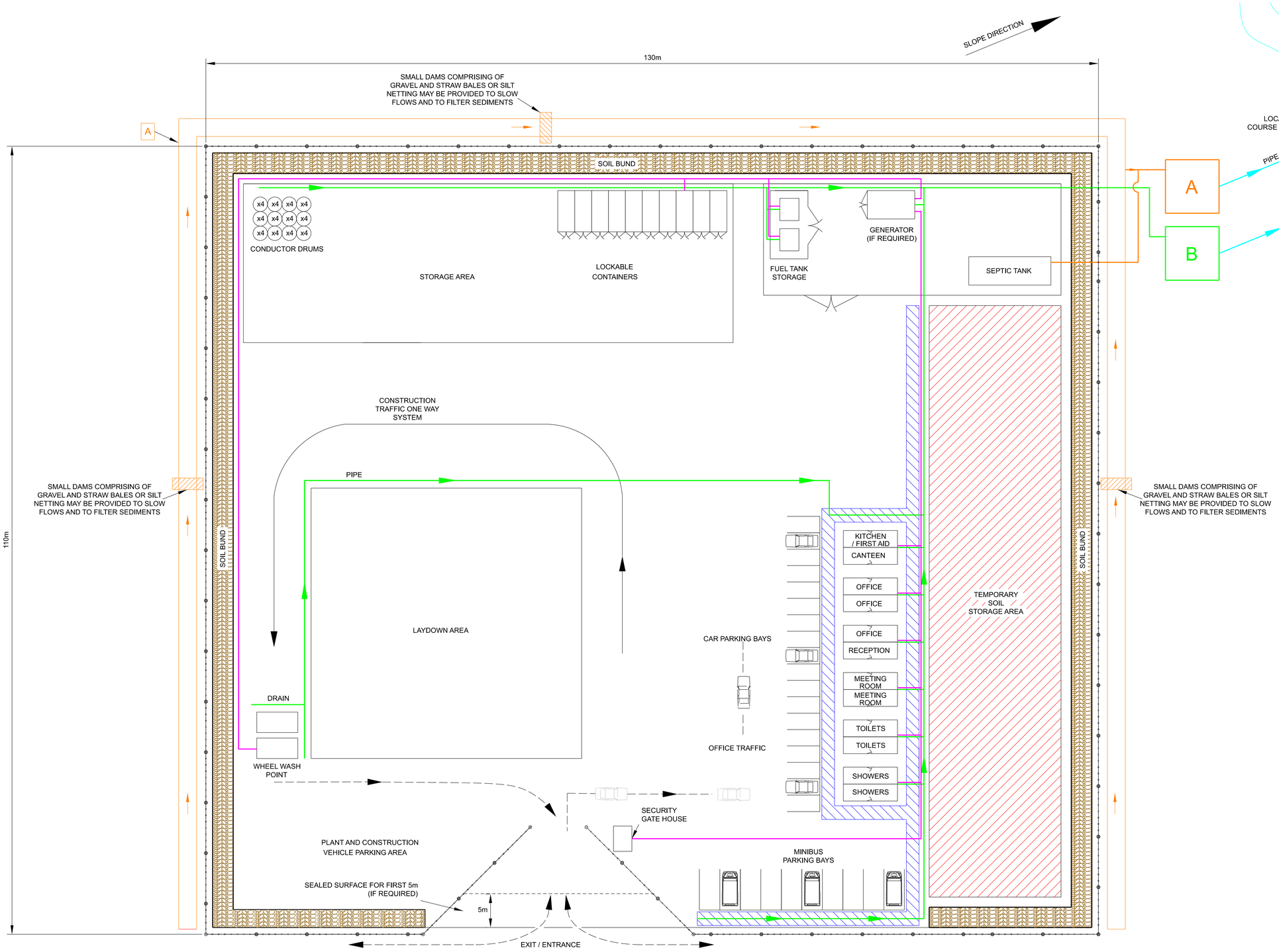
Application Number
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE CONSTRUCTION COMPOUND (SATELLITE)
REGULATION 5(2)(o)
SHEET 18 OF 20



Legend

- PEDESTRIAN ACCESS
- SOIL BUND
- TEMPORARY SOIL STORAGE
- INTERCEPTOR DITCH
- FENCELINE
- GATE
- DOWNSTREAM DIRECTION
- ELECTRICITY CABLING

A — OFFSITE SURFACE & SUBSURFACE DRAINAGE FLOWS AND TREATED DISCHARGE FROM SEPTIC PLANT CONVEYED INTO SILTATION SUMP / RETENTION FACILITIES. FLOWS FROM THIS DISCHARGED TO WATER COURSE, EXISTING DRAINS OR VIA NEW SOAKAWAY IF GROUND CONDITIONS ALLOW.

B — COMPOUND SURFACE WATER FLOWS FROM ALL IMPERMEABLE AREAS INCLUDING; CAR PARK, CABINS, LAY DOWN AREA ETC. CONVEYED INTO SILTATION SUMP, OIL FILTER AND RETENTION FACILITY. FLOWS OF WATER DISCHARGED FROM FACILITIES MUST BE RESTRICTED TO FLOW RATES EQUIVALENT OR LOWER THAN EXISTING GREEN FIELD RUNOFF RATES.

Notes

1. ALL DIMENSIONS ARE INDICATED IN METRES (m) UNLESS NOTED OTHERWISE
2. DIMENSIONS AND LAYOUT ARRANGEMENT SHOWN ARE INDICATIVE ONLY. DESIGN WILL VARY ACCORDING TO THE AVAILABLE AREA, THE SPECIFIC SITE CONSTRAINTS AND THE CONSTRUCTION CONTRACTOR'S REQUIREMENTS.
3. THIS DRAWING SHOWS A TYPICAL CONSTRUCTION COMPOUND, WHICH WILL BE IN PLACE DURING CONSTRUCTION OF THE RELEVANT ASPECTS OF THE CONSTRUCTION PROGRAMME AND REMOVED/RESTORED FOLLOWING COMPLETION OF CONSTRUCTION WORKS.
4. SOIL BUND WILL BE DESIGNED WITH SUITABLE GAPS / DRAINAGE PIPES TO ALLOW WATER FLOW IN FLOOD CONDITIONS.
5. SOIL WITHIN COMPOUND TO BE STRIPPED AND COMPOUNDS TEMPORARILY SURFACED.
6. SITE CABINS MAY BE DOUBLE STOREY AND MAY BE RAISED TO TAKE ACCOUNT OF POTENTIAL FLOOD RISK.
7. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE CONSTRUCTION COMPOUND
(SATELLITE)
REGULATION 5(2)(o)
SHEET 18 OF 20

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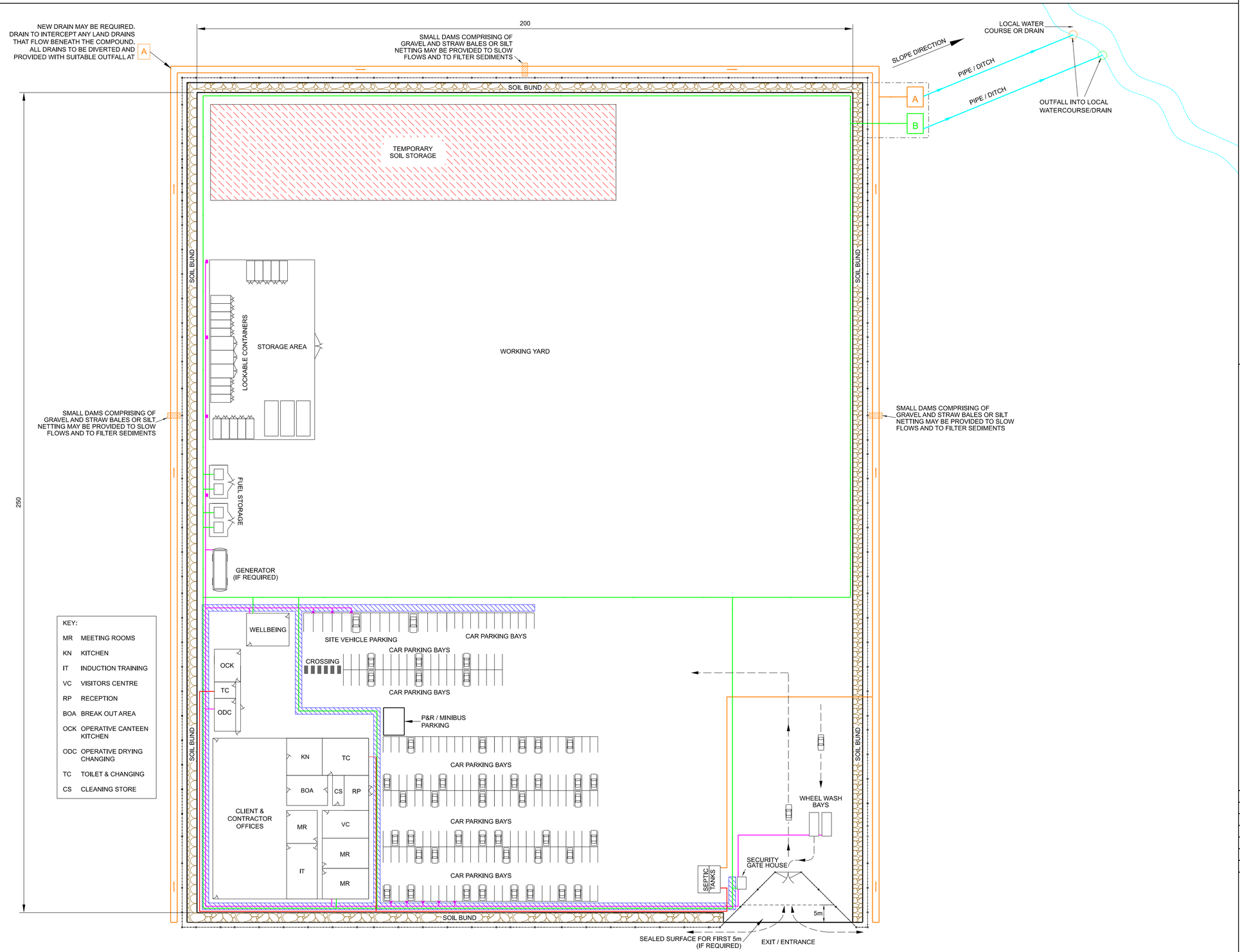
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THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE CONSTRUCTION COMPOUND (MAIN)
REGULATION 5(2)(o)
SHEET 19 OF 20



KEY:

MR	MEETING ROOMS
KN	KITCHEN
IT	INDUCTION TRAINING
VC	VISITORS CENTRE
RP	RECEPTION
BOA	BREAK OUT AREA
OCK	OPERATIVE CANTEEN KITCHEN
ODC	OPERATIVE DRYING CHANGING
TC	TOILET & CHANGING
CS	CLEANING STORE

Legend

- PEDESTRIAN ACCESS
- SOIL BUND
- TEMPORARY SOIL STORAGE
- INTERCEPTOR DITCH
- RAW SEWAGE
- SURFACE WATER
- FRESH WATER
- ELECTRICITY CABLING
- FENCELINE
- DOWNSTREAM DIRECTION

A — OFFSITE SURFACE & SUBSURFACE DRAINAGE FLOWS AND TREATED DISCHARGE FROM SEPTIC PLANT CONVEYED INTO SILTATION SUMP / RETENTION FACILITIES. FLOWS FROM THIS DISCHARGED TO EITHER WATER COURSE, EXISTING DRAINS OR VIA NEW SOAKAWAY IF GROUND CONDITIONS ALLOW.

B — COMPOUND SURFACE WATER FLOWS FROM ALL IMPERMEABLE AREAS INCLUDING; CAR PARK, CABINS, LAY DOWN AREA ETC. CONVEYED INTO SILTATION SUMP, OIL FILTER AND RETENTION FACILITY. FLOWS OF WATER DISCHARGED FROM FACILITIES MUST BE RESTRICTED TO FLOW RATES EQUIVALENT OR LOWER THAN EXISTING GREEN FIELD RUNOFF RATES.

Notes

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THE NATIONAL GRID
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ILLUSTRATIVE CONSTRUCTION COMPOUND (MAIN)
REGULATION 5(2)(o)
SHEET 19 OF 20

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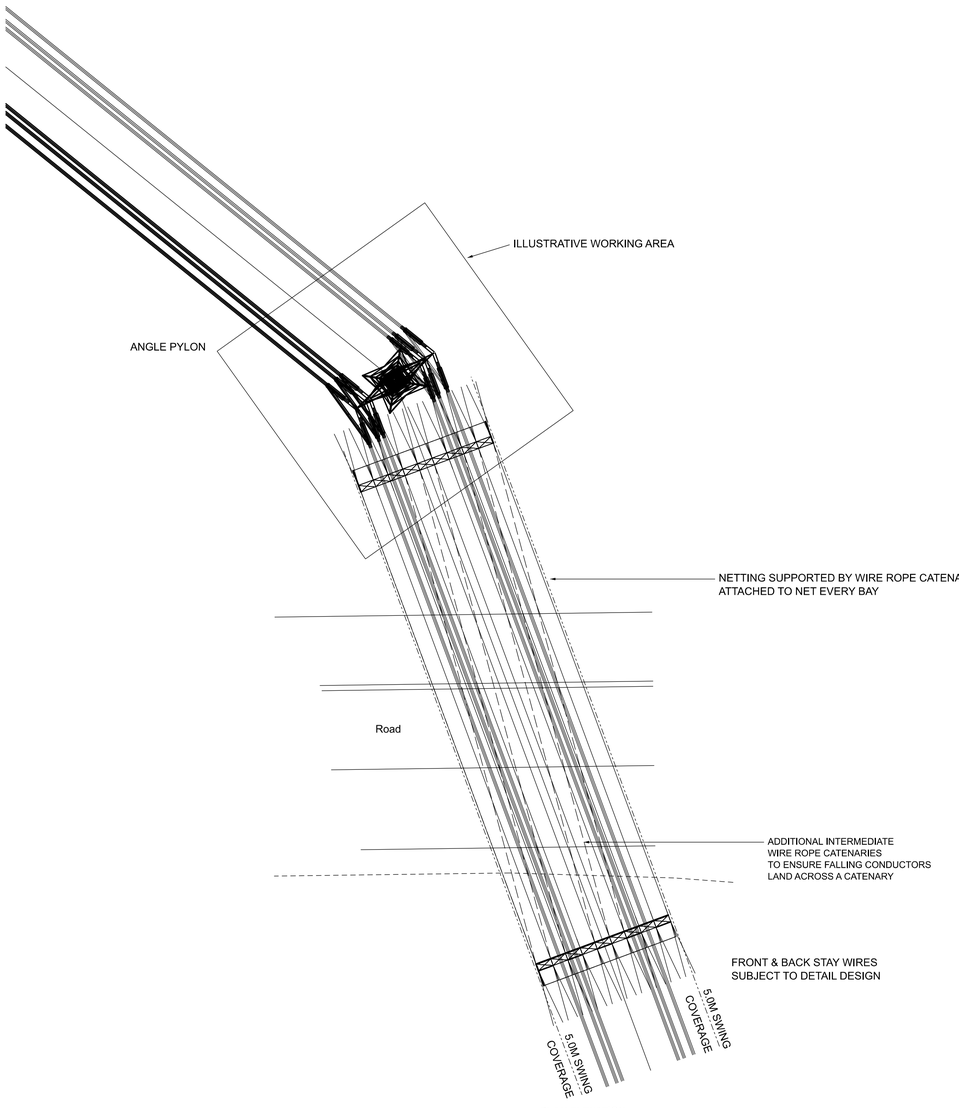
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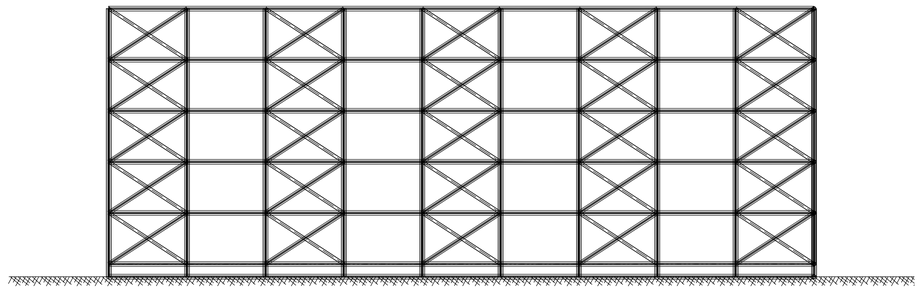
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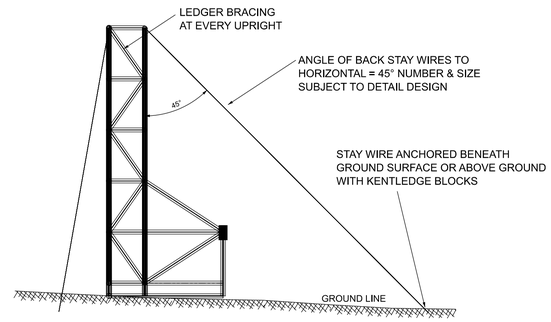
THE NATIONAL GRID
(NORTH HUMBER TO HIGH MARNHAM) ORDER
ILLUSTRATIVE SCAFFOLD PROTECTION FOR OVERHEAD LINE CONDUCTOR STRINGING
REGULATION 5(2)(o)
SHEET 20 OF 20



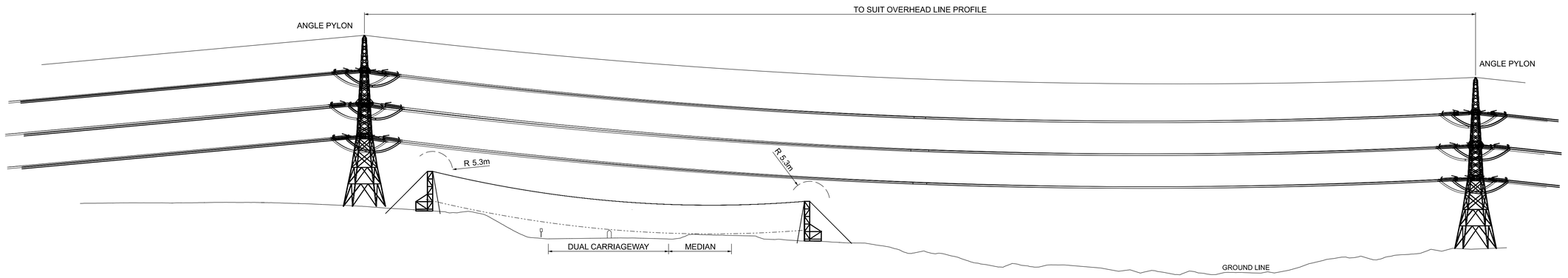
PLAN ELEVATION



FRONT ELEVATION OF SCAFFOLD



SIDE ELEVATION OF SCAFFOLD



SPAN ELEVATION

Legend

N/A

Notes

1. THESE PLANS ARE ILLUSTRATIVE AND WILL SIT WITHIN THE ORDER LIMITS. DUE TO THE NEED FOR FUTURE FLEXIBILITY, NATIONAL GRID WILL BE APPLYING FOR ORDER LIMITS AND LIMITS OF DEVIATION WITHIN ITS DCO, WITHIN WHICH ANY FINAL ALIGNMENT WOULD LIE.
2. SCAFFOLDING SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SUBJECT TO DETAIL DESIGN AND IN ACCORDANCE WITH NATIONAL GRID STANDARDS.
3. FOR ADDITIONAL DETAIL ON THE PLAN SUITES, PLEASE REFER TO THE "GUIDE TO THE PLANS" LOCATED IN VOLUME 2 OF THE DCO APPLICATION.

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ILLUSTRATIVE SCAFFOLD PROTECTION
FOR OVERHEAD LINE CONDUCTOR STRINGING
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