CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

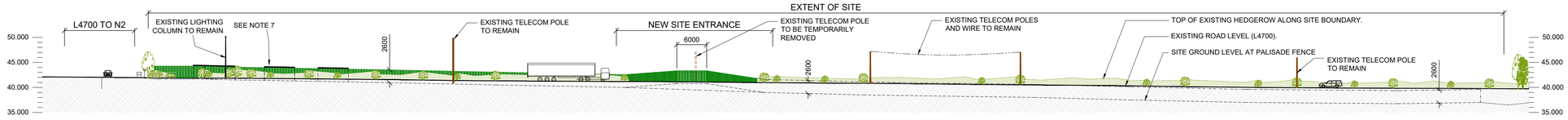
APPENDIX 2

MATERIAL STORAGE YARD DRAWINGS

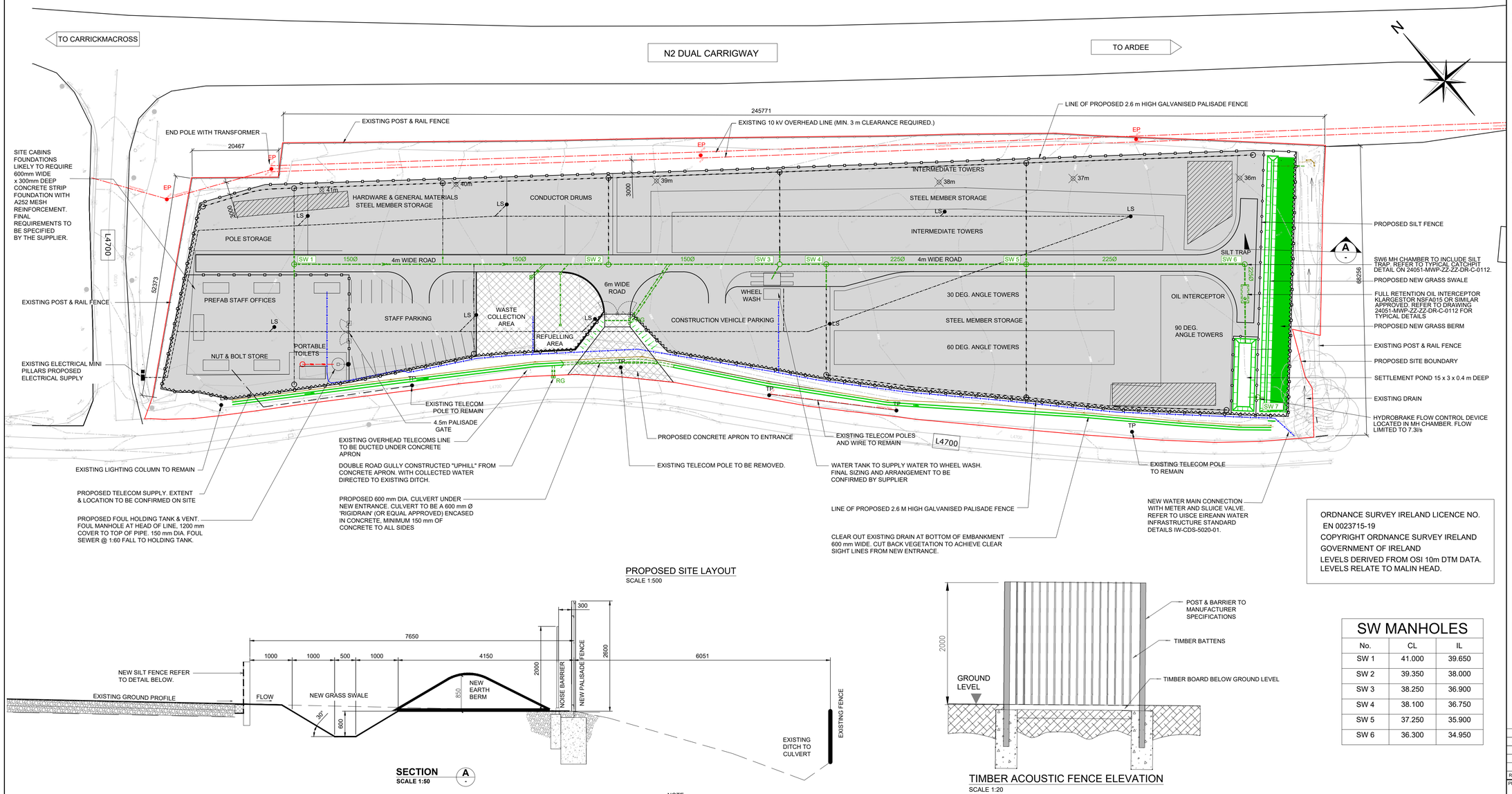
APPENDIX 2

MATERIAL STORAGE YARD DRAWINGS

1. Material Storage Yard Site Layout
2. Site Details – Interceptor Drawing
3. Landscape Plan
4. Noise Barrier



PROPOSED ELEVATION ALONG ROAD L4700



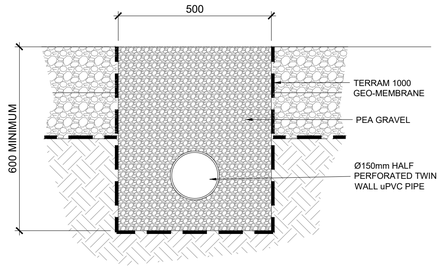
PROPOSED SITE LAYOUT
SCALE 1:500

ORDNANCE SURVEY IRELAND LICENCE NO. EN 0023715-19
COPYRIGHT ORDNANCE SURVEY IRELAND
GOVERNMENT OF IRELAND
LEVELS DERIVED FROM OSI 10m DTM DATA.
LEVELS RELATE TO MALIN HEAD.

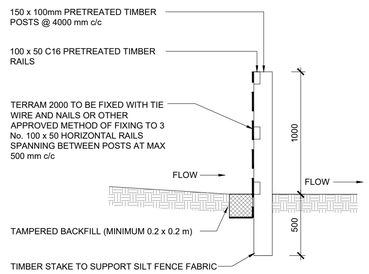
SECTION A-A
SCALE 1:50

TIMBER ACOUSTIC FENCE ELEVATION
SCALE 1:20

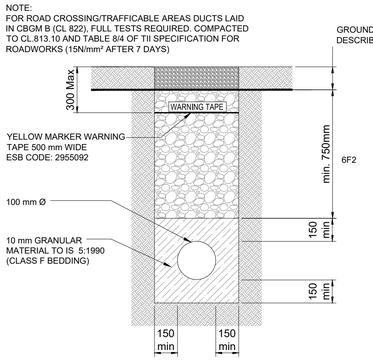
SW MANHOLES		
No.	CL	IL
SW 1	41.000	39.650
SW 2	39.350	38.000
SW 3	38.250	36.900
SW 4	38.100	36.750
SW 5	37.250	35.900
SW 6	36.300	34.950



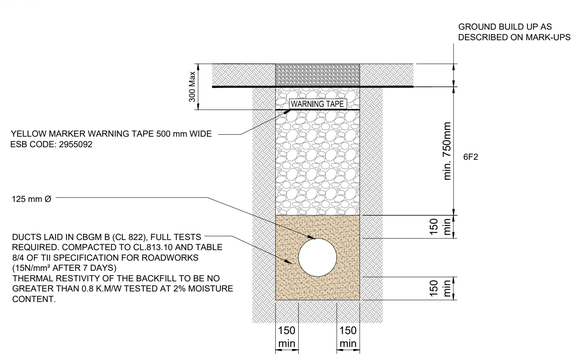
TYPICAL FRENCH DRAIN DETAIL
SCALE 1:10



TYPICAL SILT FENCE DETAIL
SCALE 1:25



TYPICAL TRENCH DETAIL FOR COMMS DUCTING
SCALE 1:20



TYPICAL TRENCH DETAIL FOR LV ELEC DUCTING
SCALE 1:20

0m 10m 20m 30m 40m

NOTES:

1. ROAD, PARKING AND STORAGE AREA SURFACES TO BE CONSTRUCTED USING COMPACTED STONE, REFER TO DETAILS.
2. APPROXIMATE SITE AREA1.4 HECTARES. CONTRACTOR IS RESPONSIBLE FOR DETERMINING SITE AREA.
3. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
4. CONFIGURATION OF STAFF FACILITIES SHOWN IS INDICATIVE.
5. NOISE BARRIER TO BE STAND ALONE FENCE.
6. NO PERMANENT RACKING OR SHELVING PROPOSED FOR STORAGE WITHIN THE FOLLOWING AREAS:

a. HARDWARE AND GENERAL MATERIALS STORE
b. STEEL MEMBERS STORAGE
c. CONDUCTOR DRUMS
d. INTERMEDIATE TOWERS
e. 30° ANGLE TOWERS
f. 60° ANGLE TOWERS
g. 90° ANGLE TOWERS

7. FOR SCALED PLANS AND ELEVATIONS OF STRUCTURES PROPOSED TO BE PLACED ON THE SITE REFER TO DRAWINGS PE687-D422-041-001, PE687-D422-041-002, PE687-D422-041-003 & PE687-D422-041-004.

SITE STRIP & STONE FILL:

- STRIP OFF EXISTING TOPSOIL AND GROUND.
- FORMATION TO BE TESTED WITH PLATE BEARING TESTS. (MIN. 5% GBR REQUIRED. A MINIMUM OF 10 No. CBR TESTS DISTRIBUTED EVENLY ACROSS THE SITE ARE REQUIRED. SHOULD RESULTS VARY SIGNIFICANTLY, ADDITIONAL TESTING WILL BE REQUIRED.
- SOFT SPOTS TO BE EXCAVATED OUT AND FILLED WITH COMPACTED 6F2 MATERIAL.
- GEOTEXTILE TERRAM 1000 PLACED ON FORMATION.
- LAYER OF COMPACTED 6F2 STONE ON
- LAYER OF COMPACTED UGM-A STONE.

SITE LEVELS TO BE REINSTATED SIMILAR TO EXISTING LEVELS. ~1/35 FALL NW TO SE.

STRIPPED MATERIAL REMOVED FROM SITE TO BE DISPOSED OF APPROPRIATELY IN A LICENSED FACILITY SUITABLE FOR THE CLASSIFICATION OF THE MATERIAL. CONTRACTOR TO UNDERTAKE WASTE ACCEPTANCE CRITERION TESTING TO DETERMINATE THE MATERIAL CLASSIFICATION.

LEGEND:

- PROPOSED TEMPORARY CONSTRUCTION / MATERIAL STORAGE YARD
- PROPOSED SURFACE WATER DRAIN (TWIN-WALL PIPES)
- PROPOSED FOUL DRAIN
- WATER SUPPLY PIPE 50 mm Ø HDPE.
- LV SUPPLY DUCTS FOR YARD LIGHTING 125 mm Ø
- COMMS DUCT 100 mm Ø
- CP — FRENCH DRAIN 150 mm Ø PERFORATED PIPE. CP - CATCH PIT
- 2.0 m HIGH TIMBER ACOUSTIC FENCE.
- NEW DARK GREEN POWDER COATED PALISADE FENCE (RAL 6005)
- NEW SILT FENCE.
- NEW RC APRON SLAB AREAS (721 m²)
- NEW STONED SITE AREAS (12,000 m²)
- EP — ELECTRICITY POLE
- TP — TELECOM'S POLE
- LS — LAMP STANDARD
- XXxm — EXISTING GROUND LEVEL
- PROPOSED SOIL STOCKPILE LOCATION

REV	DATE	DESCRIPTION	BY	APP
5	May 2026	PLANNING ISSUE	-	-
4	Mar 2026	PLANNING ISSUE	-	-
3	Aug 2025	PLANNING ISSUE	-	-
2	July 2025	CEMP ISSUE	-	-
1	Nov 2023	ISSUED FOR TENDER	MM	SF

PROJECT:
NORTH SOUTH 400 kV INTERCONNECTION DEVELOPMENT

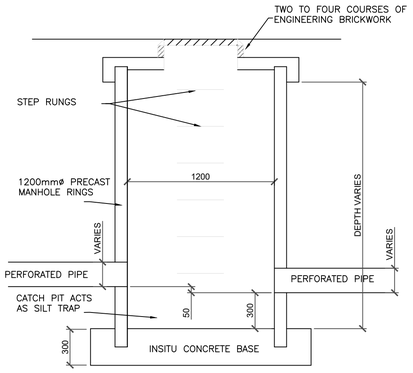
TITLE:
PROPOSED TEMPORARY CONSTRUCTION/ MATERIAL STORAGE YARD SITE LAYOUT PLAN & DETAILS

CLIENT:
EIRGRID

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwp.ie

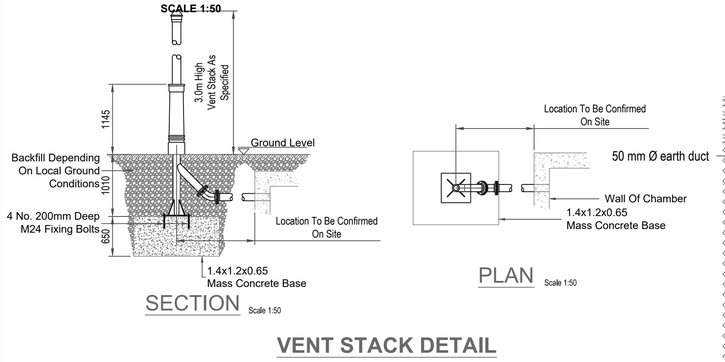
DRAWN:	CHECKED:	APPROVED:
PROJECT NUMBER: TC211635	DATE: Nov.2023	SCALE @ A1: 1:500
STATUS DESCRIPTION: FOR TENDER		STATUS: D2

DRAWING NUMBER: 24051 - MWP - ZZ - ZZ - DR - C - 0102
REV: 4

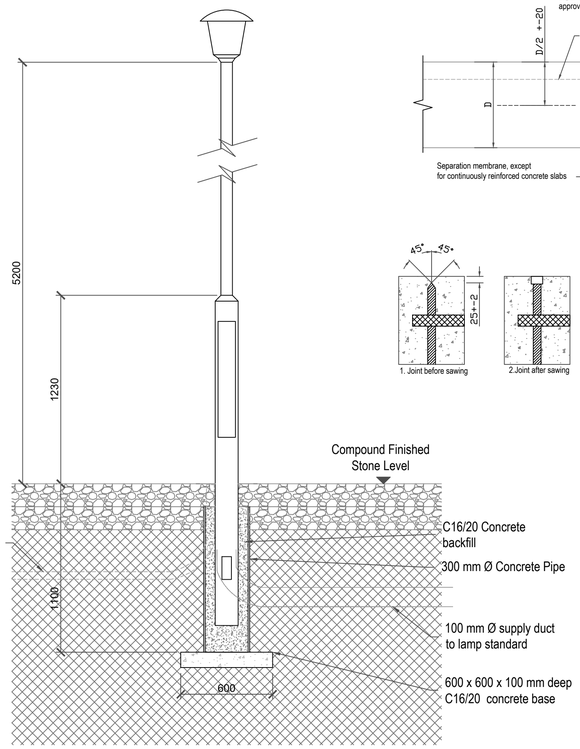


CATCH PIT (SW1-SW6) - TYPICAL DETAIL

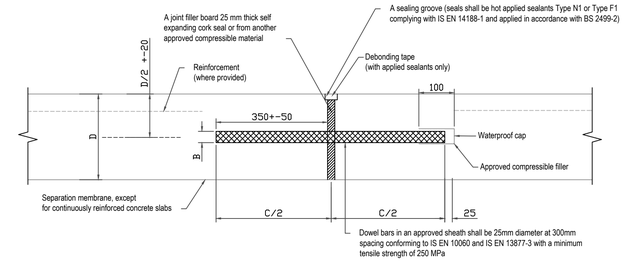
SCALE 1:50



VENT STACK DETAIL



Lighting Column & Surround Details Scale 1:25

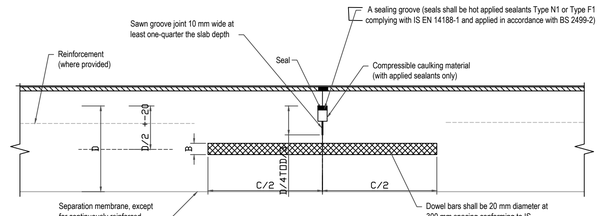


EXPANSION JOINT DETAIL

SCALE: 1:20

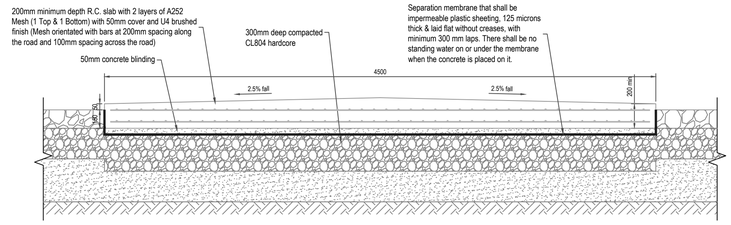
Dowel bar		
Slab thickness dimension 'D'	Dimension 'B'	Dimension 'C'
150 to 239'	25	600
240 and over	32	600

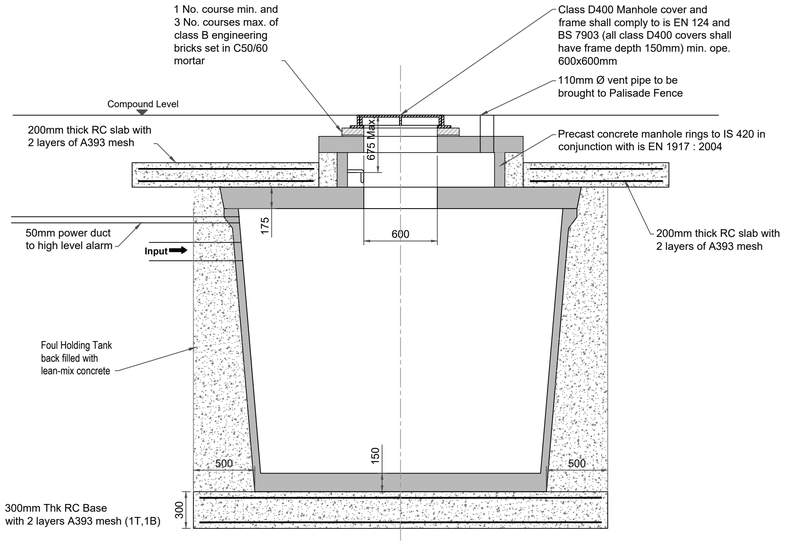
Notes:
1. All dimensions are in millimeters.
2. The dowel bars shall be placed at 300 centres. this spacing shall be varied where necessary so that no dowel bar is within 150 of a slab edge or a joint parallel to the bars



CONTRACTION JOINT DETAIL

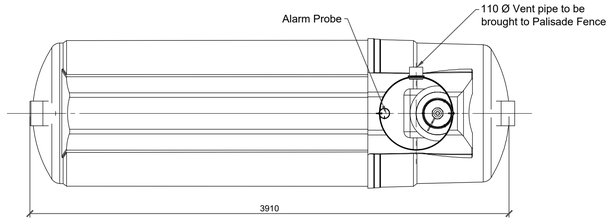
SCALE: 1:20

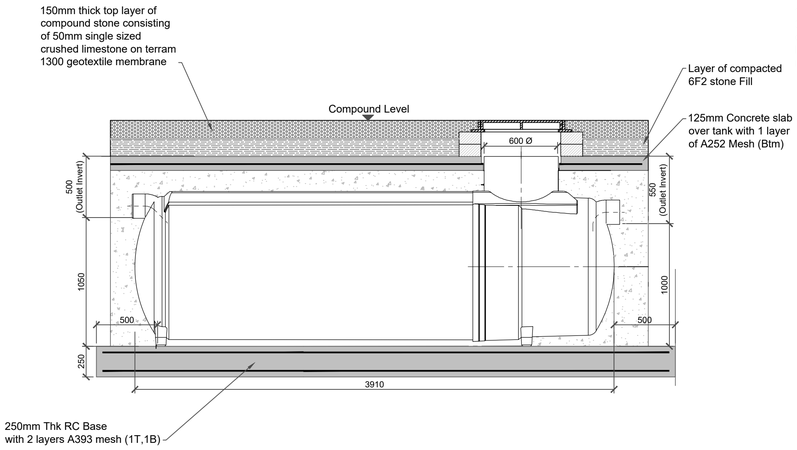


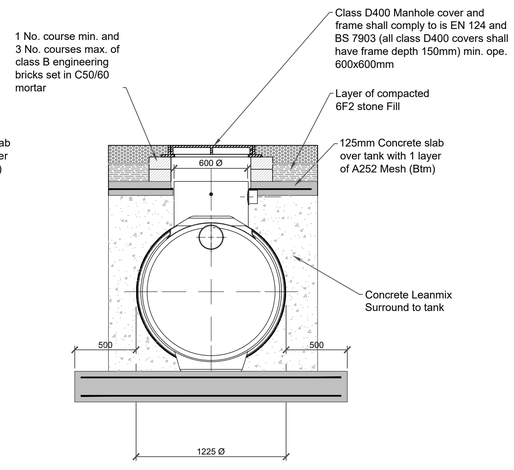


PROPOSED FOUL HOLDING TANK (VOLUME 5m³) - SECTION

SCALE: 1:25

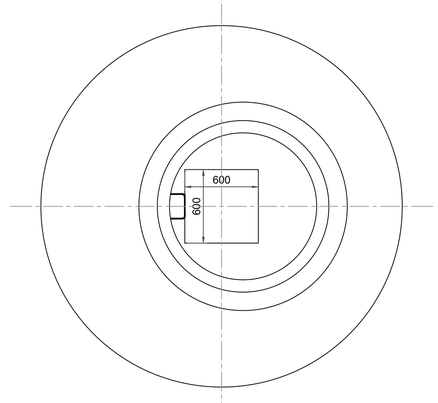






FULL RETENTION CLASS 1 INTERCEPTOR
To be a NSFA015 fitted with an oil fuel alarm and an adaptor for the larger diameter 225mm pipe. Allow for 50mm standard drop across the interceptor.

Scale 1:20



PROPOSED FOUL HOLDING TANK - PLAN

SCALE: 1:25

REV	DATE	DESCRIPTION	BY	APP
3	May.2026	PLANNING ISSUE	-	-
2	Aug.2025	PLANNING ISSUE	-	-
1	Nov.2023	ISSUED FOR TENDER	-	-

PROJECT:
NORTH SOUTH 400 kV INTERCONNECTION DEVELOPMENT

TITLE:
PROPOSED TEMPORARY CONSTRUCTION/ MATERIAL STORAGE YARD TYPICAL SITE DETAILS

CLIENT:
EIRGRID

MWP
ENGINEERING AND ENVIRONMENTAL CONSULTANTS
CORK | TRALEE | LONDON | LIMERICK
mwp.ie

DRAWN:	CHECKED:	APPROVED:

PROJECT NUMBER:	DATE:	SCALE @ A1:
TC211635	Nov.2023	As Noted

STATUS DESCRIPTION:	STATUS:
FOR TENDER	D2

DRAWING NUMBER:	REV:
24051 - MWP - ZZ - ZZ - DR - C - 0112	2



LEGEND:

- Woodland
- Wet grassland Mix
- Site boundary
- Berm
- Advanced nursery stock
- Proposed fence
- Hedgerow Type 2

NOTES:

The function of the proposed mitigation planting is to support screening and to enhance biodiversity across the site. The new and bolstered sections of hedgerow vegetation, proposed woodland mix and wild grass verges will all reinforce the existing green infrastructure links and provide new ecological corridors within the site and throughout the wider landscape.

Mitigation screen planting shall consist of a mixture of native hedgerow species that are prevalent in the immediate area. Planting to consist of feathered whips (of various sizes) in staggered rows at a spacing of 600mm.

'Under-planting' to consist of a single row of whips to the development side of existing tree lines and hedgerows.

'Inter-planting' to consist of whips at 400mm centres to fill gaps in existing tree lines and hedgerows.

New sections of hedgerow to consist of a triple staggered row of whips and advanced nursery stock at 600mm spacing.

All native species will be planted as whips, with the primary and secondary structure species to be of a minimum height of 90cm and the other shrubs species to be of a minimum height of 60cm.

Proposed mitigation screen planting to be planted as per diagram LMP1.1-1.2 and maintained at a height of approximately 3-4m unless otherwise specified. Hedgerow type 1 to be planted as necessary for gap filling and bolstering.

Proposed mitigation to be planted in the first growing season prior to commencement of development. Hedgerows should reach full establishment (3-4 meters) within 2-3 years of planting.

Native grass seeding of local provenance to occupy any residual space between perimeter fence and nearest line of whip planting. Field margins to be managed inline with the BRIDE project management techniques.

Species mix to be finalised in conjunction with the project ecologist.

*Advanced nursery stock to be provided as Crateagus monogyna (Hawthorn) at 8-10cm girth (c. 3m) bare root standard trees.

NATIVE HEDGEROW SPECIES:

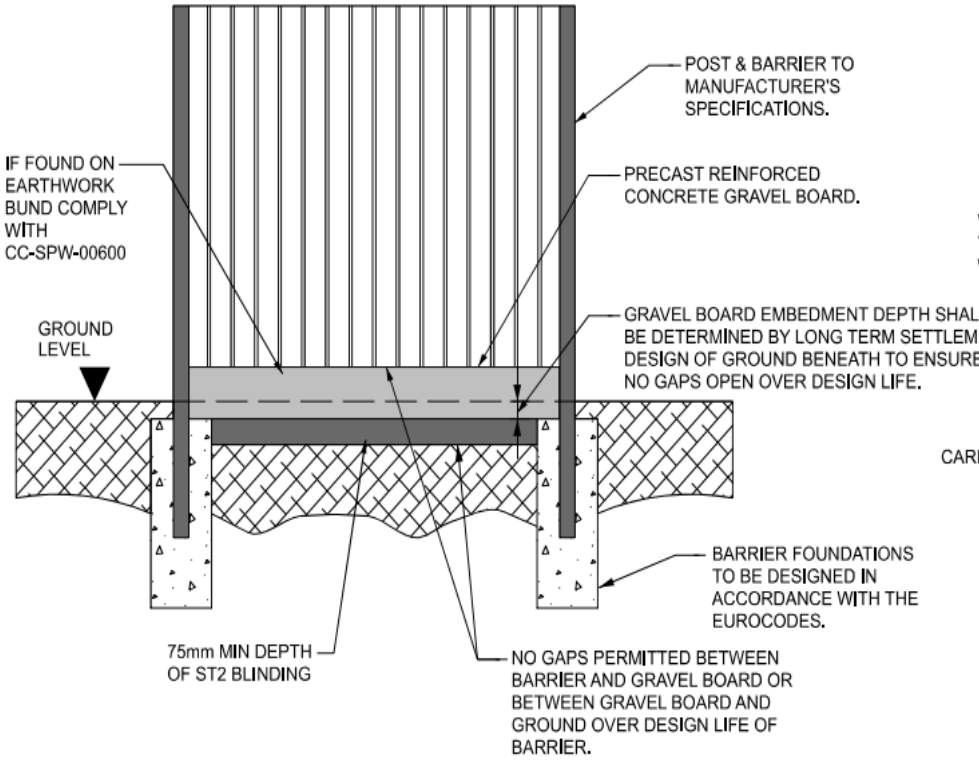
Botanical name	Common name	Size	%
Primary structure;			
Crataegus monogyna	Hawthorn	90-120cm / 8-10cm girth 3m br standard trees	60%
Secondary structure;			
Prunus spinosa	Blackthorn	90-120cm	15%
Ilex aquifolium	Holly	90-120cm	15%
Shrub species structure;			
Viburnum opulus	Guelder Rose	60-90cm	2.5%
Corylus avellana	Hazel	60-90cm	2.5%
Rosa canina	Dog-rose	60-90cm	2.5%
Euonymus europaeus	Spindle	60-90cm	2.5%

macroworks APEM Group

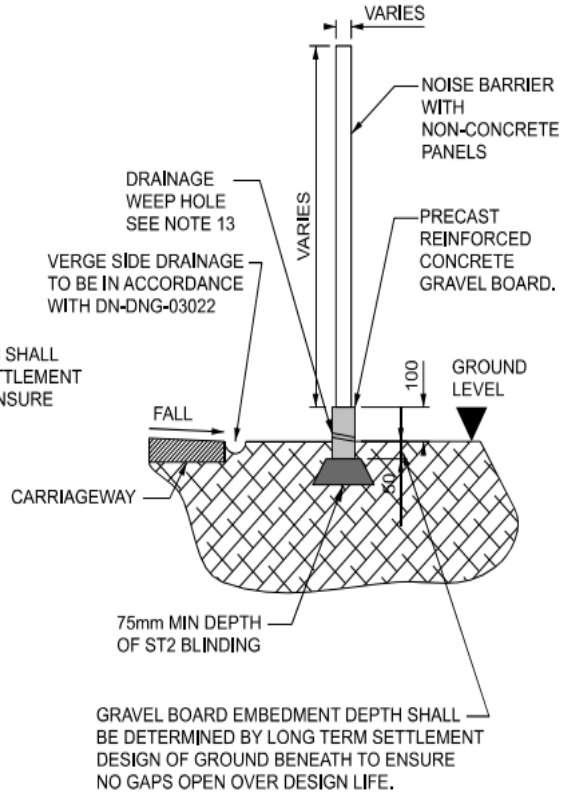
Ground Floor, Hibernia House
Cherrywood Business Park
Loughlinstown, Dublin 18
Ireland
00353 (01) 2303585
info@macroworks.ie

PROJECT:	CLIENT:
North South Interconnector Storage Yard Co. Monaghan	ESB Major Projects

DRAWING:		SCALE:
Landscape Mitigation Plan - Sheet 1		1:500
DATE:	**DWN BY:**	**CKD BY:**
Jul 2025	YA	RB
SHEET SIZE:		**DWG No.**
A1 (landscape)		LD_NSINTER 3.1



ON-CONCRETE ENVIRONMENTAL NOISE BARRIER ELEVATION



GRAVEL BOARD CROSS SECTION

NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL NON-CONCRETE ENVIRONEMENTAL NOISE BARRIERS SHALL BE SUPPLIED WITH A PRECAST CONCRETE GRAVEL BOARD.
3. THE MINIMUM COVER TO REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE DN-STR-03012.
4. MINIMUM EXPOSURE CLASS TO BE XC4.
5. REINFORCED CONCRETE SHALL BE A MINIMUM GRADE C32/ 40.
6. ALL GRAVEL BOARD FACES ARE TO HAVE AN F4 FINISH.
7. ALL STRUCTURAL CONCRETE SHALL BE SPECIFIED IN ACCORDANCE WITH CC-SPW-01700.
8. EMBEDMENT OF GRAVEL BOARD TO BE A MINIMUM OF 50mm. DEEPER EMBEDMENT TO BE DETERMINED AS REQUIRED ON A CASE BY CASE BASIS.
9. THIS SCD IS AN INDICATIVE DETAIL SHOWING MINIMUM REQUIREMENTS. FULL DESIGN AND DETAILING SHALL BE UNDERTAKEN ON A SCHEME SPECIFIC BASIS.
10. THIS SCD IS ONLY TO BE USED IN ASSOCIATION WITH A UNIQUE STRUCTURAL DESIGN. THIS DESIGN IS TO BE CARRIED OUT IN ACCORDANCE WITH THE TII REQUIREMENTS FOR THE USE OF EUROCODES FOR THE DESIGN OF ROAD STRUCTURES.
11. ALL ENVIRONMENTAL NOISE BARRIERS SHALL BE SUPPLIED IN ACCORDANCE WITH CC-SPW-00300.
12. DETAILING OF THE GRAVEL BOARD SHALL BE THE SOLE RESPONSIBILITY OF THOSE SUPPLYING AND INSTALLING THE BARRIER.
13. SURFACE AND SUB-SURFACE DRAINAGE ADJACENT TO THE CARRIAGEWAY SHALL BE IN ACCORDANCE WITH DN-DNG-03022 REQUIREMENTS. WEEP HOLES SHALL BE PROVIDED WHERE REQUIRED. THE INVERT LEVEL OF THE WEEP HOLE, SIZE AND FREQUENCY ALONG THE NOISE BARRIER GRAVEL BOARD IS TO BE DESIGNED SUCH THAT THE GRAVEL BOARD DOES NOT ADVERSELY AFFECT THE ALLOWABLE SURCHARGED FLOW WIDTHS OUTLINED IN DN-DNG-03022. THE MAXIMUM HEIGHT OF THE WEEP HOLE INVERT SHOULD BE SET SO THAT IT IS NO HIGHER THAN THE EDGE OF THE PAVEMENT. DESIGNERS SHOULD ALSO CONSIDER THE EFFECTS OF THE NOISE BARRIER GRAVEL BOARD IN MORE EXTREME RAINFALL EVENTS WHEN DESIGNING THE WEEP HOLES, TO ALLOW FOR APPROPRIATE ROUTING OF SURCHARGED FLOW AND PREVENT VERGE EROSION AT THE GRAVEL BOARD INTERFACE.