

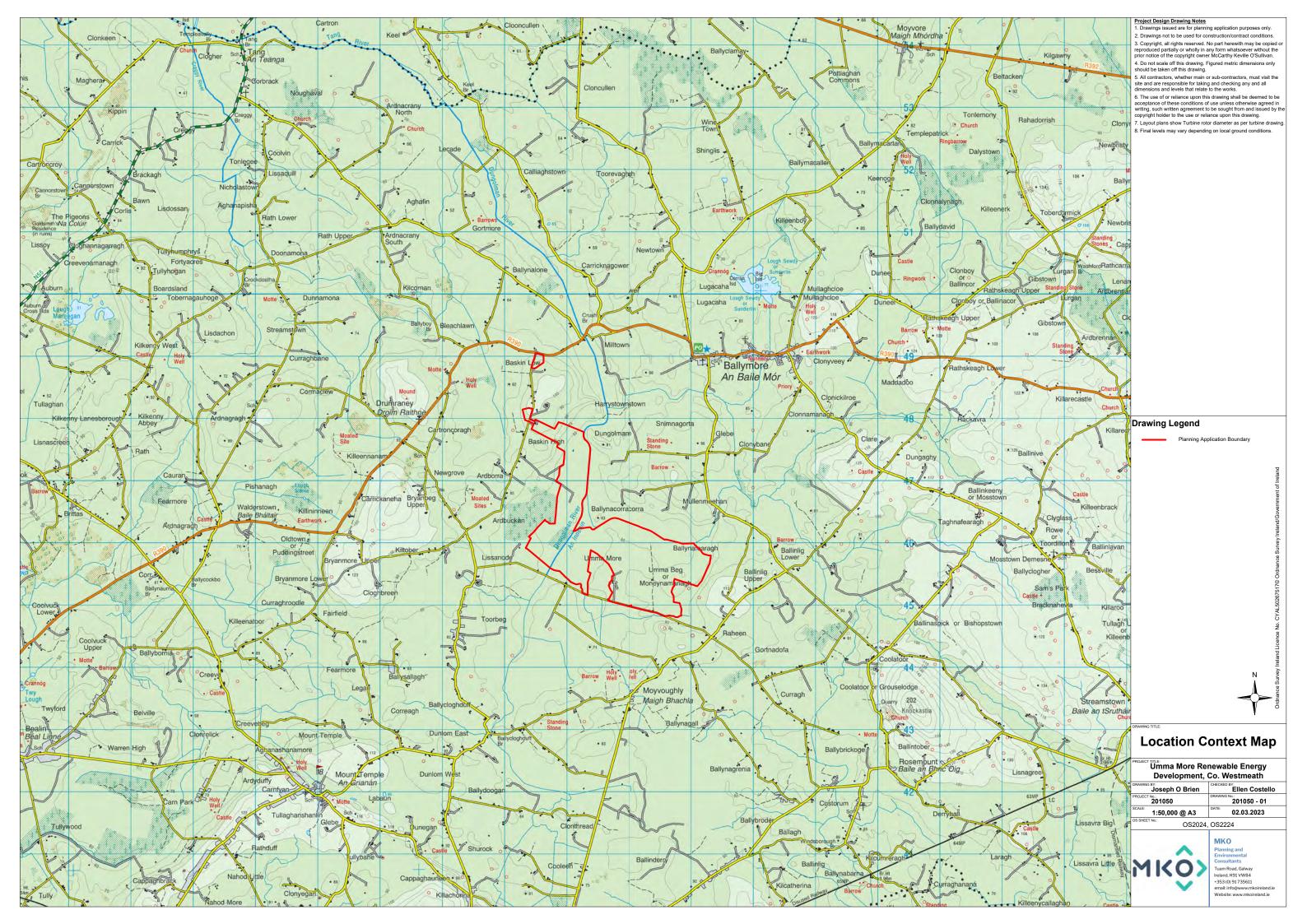
# Umma More Renewable Energy Development, Co. Westmeath Planning Permission Application Drawings

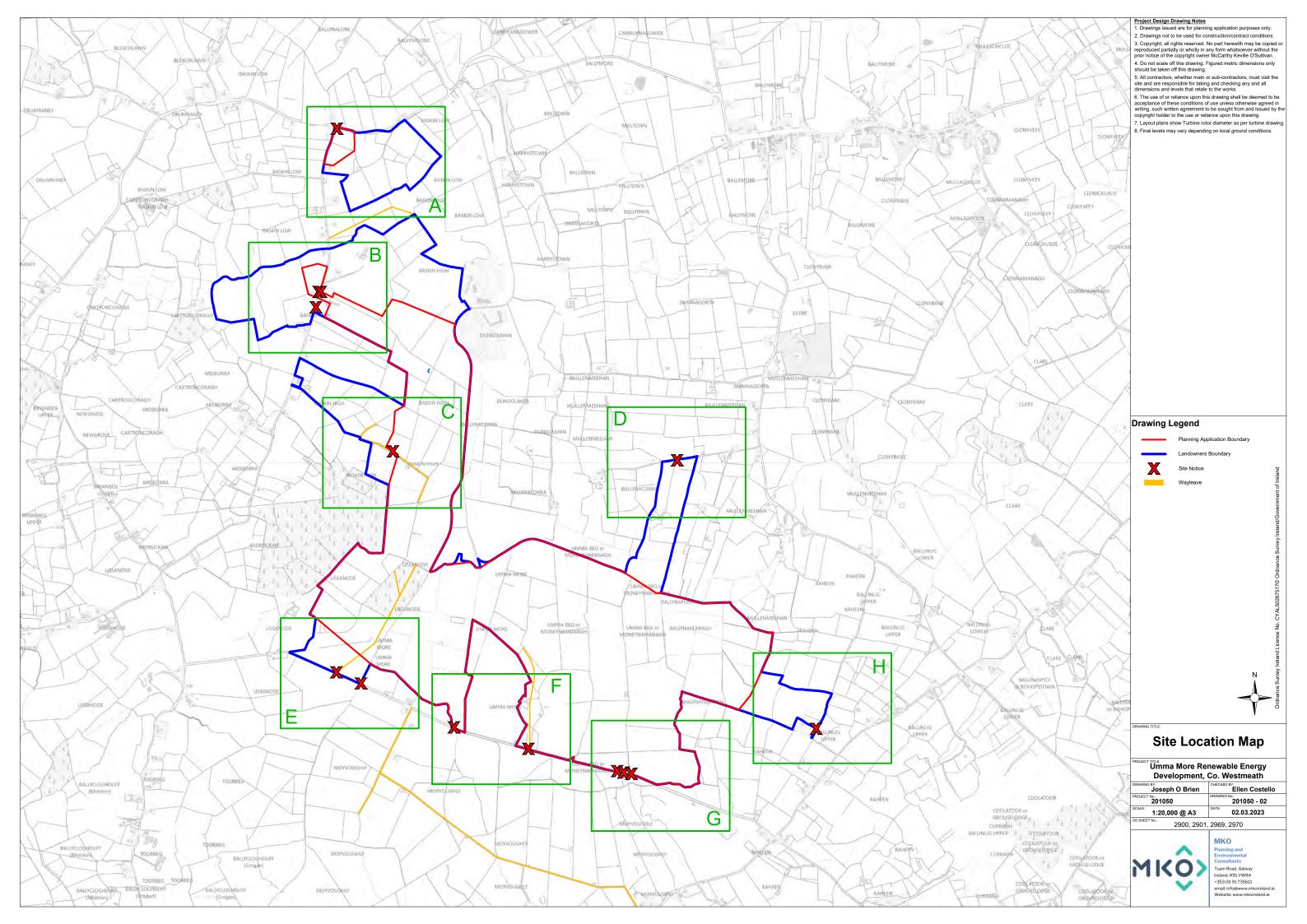


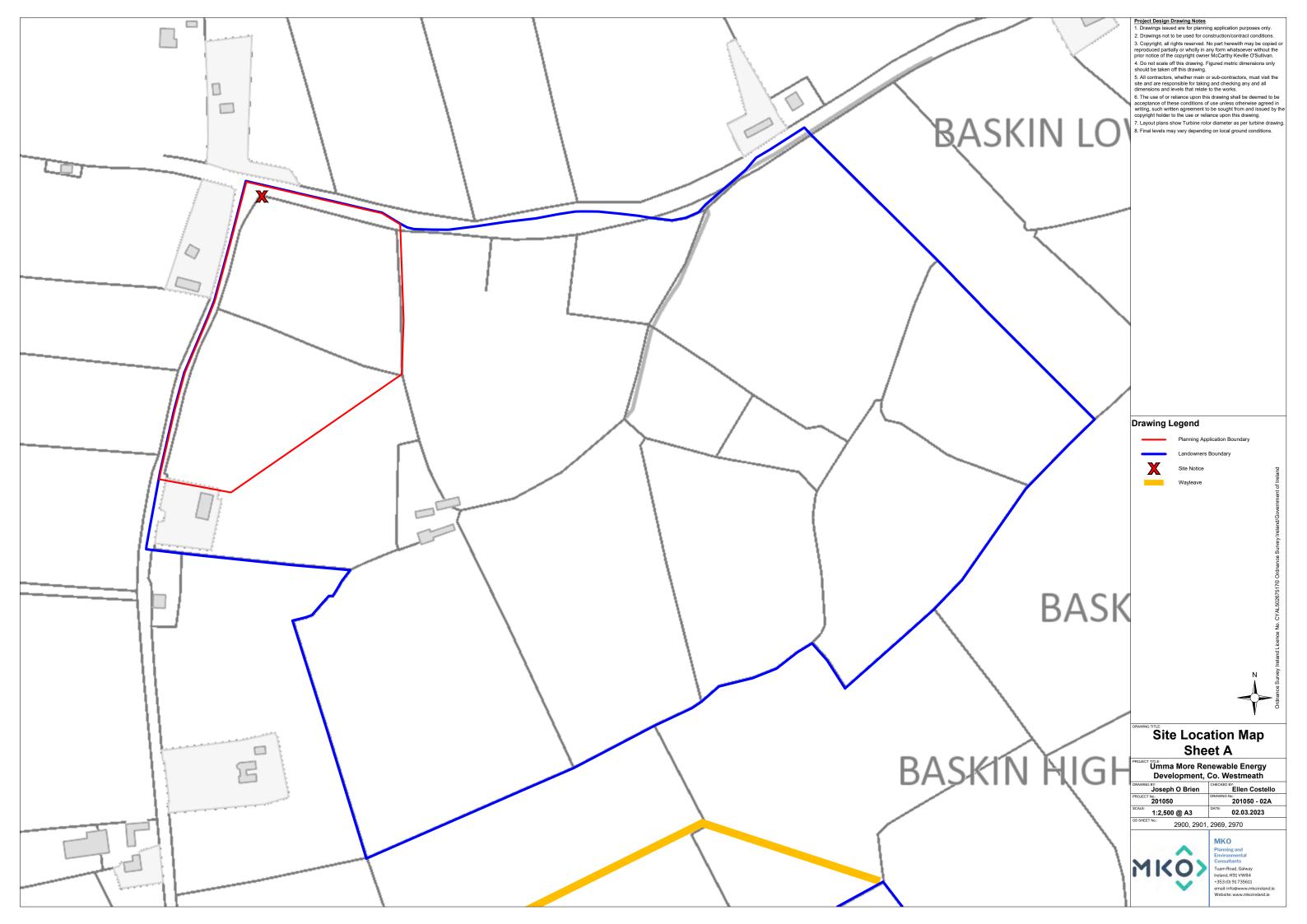


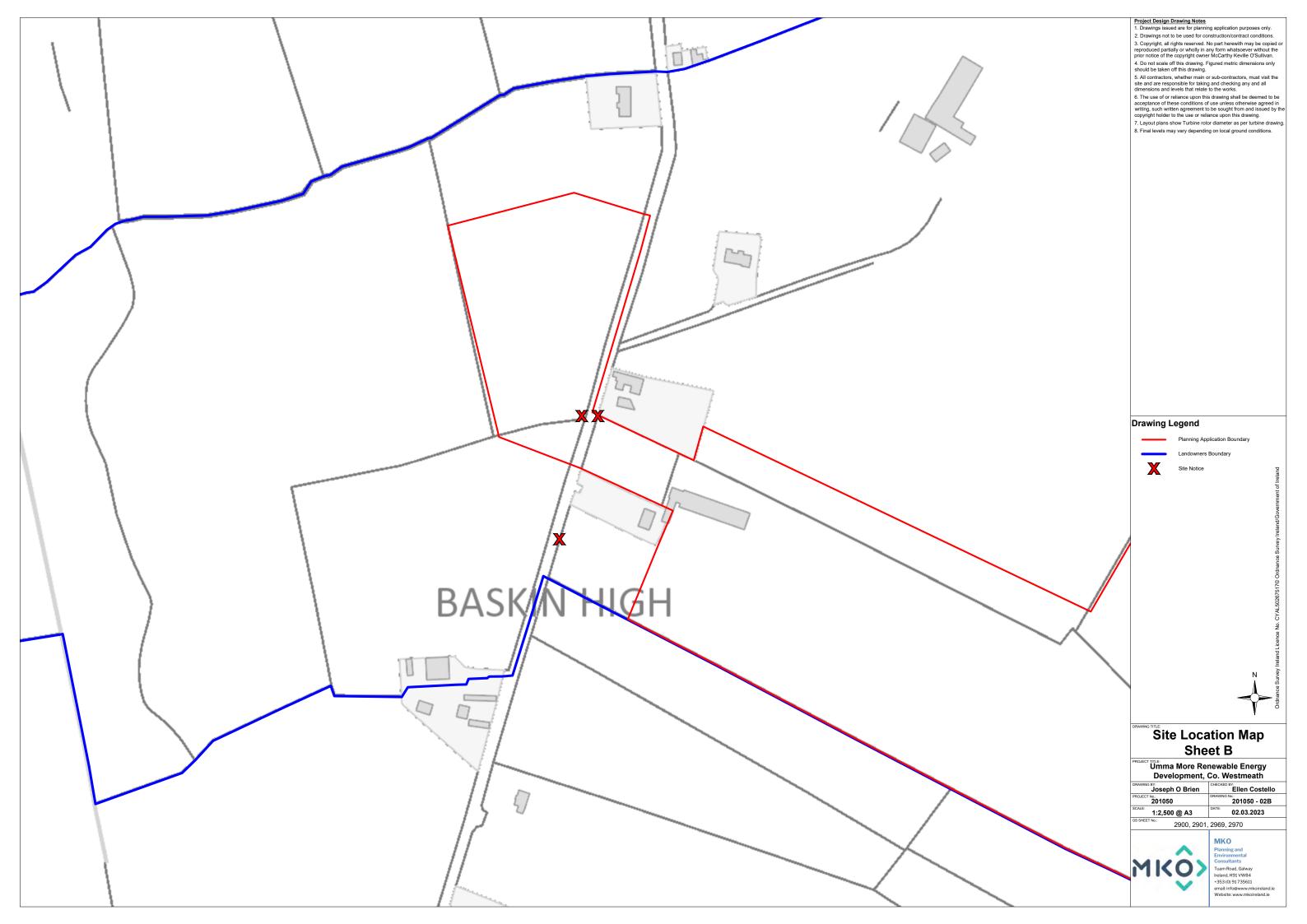
## Schedule of Drawings

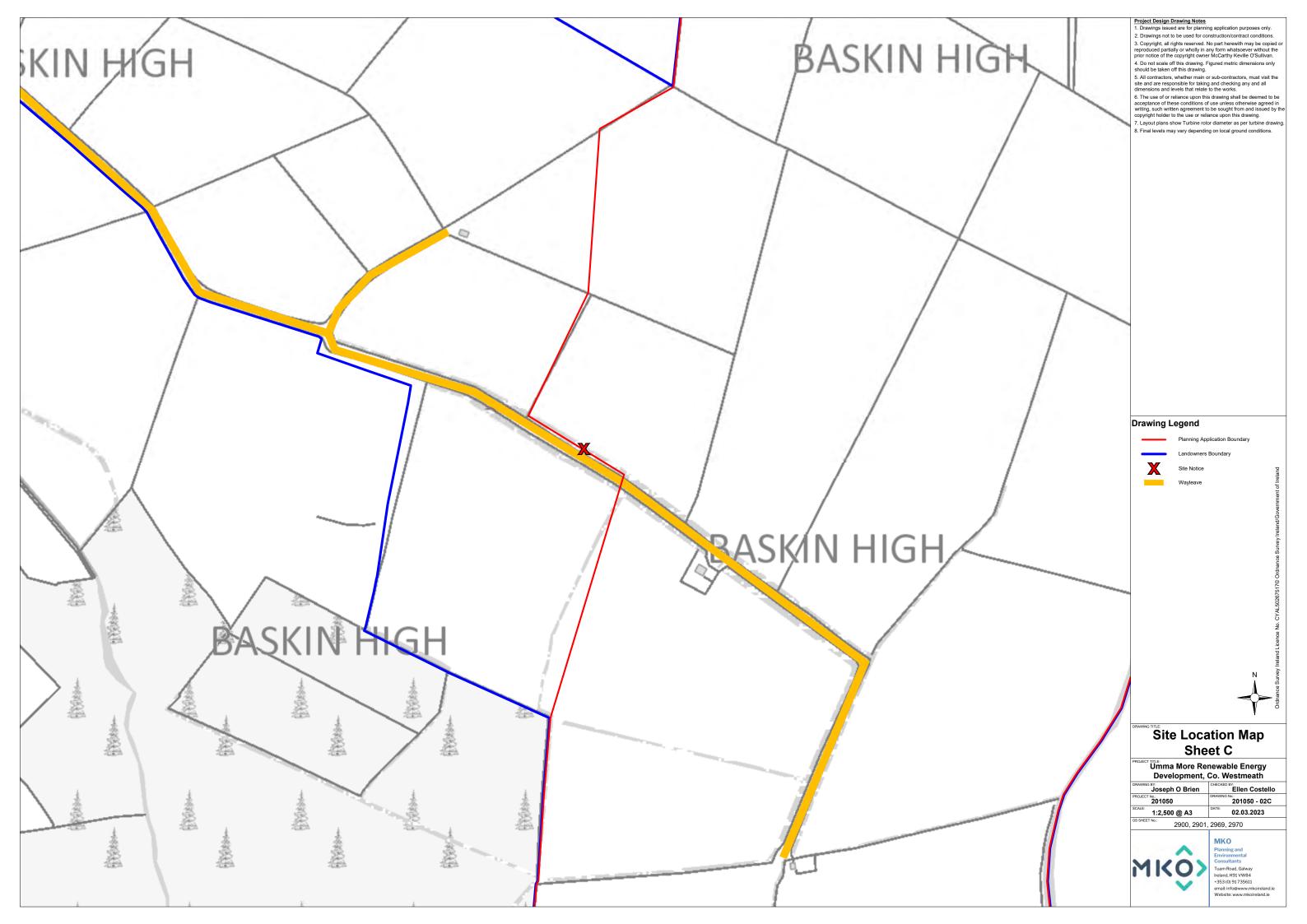
Drawing No.	Drawing Title	Scale	Page Size
201050 - 01	Location Context Map	1: 50,000	A3
201050 - 02	Site Location Map	1: 20,000	A3
201050 - 02A	Site Notice Location Map A	1:2,500	A3
201050 - 02B	Site Notice Location Map B	1:2,500	A3
201050 - 02C	Site Notice Location Map C	1:2,500	A3
201050 - 02D	Site Notice Location Map D	1:2,500	A3
201050 - 02E	Site Notice Location Map E	1:2,500	A3
201050 - 02F	Site Notice Location Map F	1:2,500	A3
201050 - 02G	Site Notice Location Map G	1:2,500	A3
201050 - 02H	Site Notice Location Map H	1:2,500	A3
201050 - 03	Site Layout Key Plan (1:5,000)	1: 10,000	A1
201050 - 04	Site Layout 1:5,000 Sheet 1 of 2	1: 5,000	A1
201050 - 05	Site Layout 1:5,000 Sheet 2 of 2	1: 5,000	A1
201050 - 06	Site Layout Key Plan (1:2,500)	1: 10,000	A1
201050 - 07	Site Layout 1:2,500 Sheet 1 of 6	1:2,500	A1
201050 - 08	Site Layout 1:2,500 Sheet 2 of 6	1:2,500	A1
201050 - 09	Site Layout 1:2,500 Sheet 3 of 6	1:2,500	A1
201050 - 10	Site Layout 1:2,500 Sheet 4 of 6	1:2,500	A1
201050 - 11	Site Layout 1:2,500 Sheet 5 of 6	1:2,500	A1
201050 - 12	Site Layout 1:2,500 Sheet 6 of 6	1:2,500	A1
201050 - 13	Turbine 1 Layout	1:500	A3
201050 - 14	Turbine 2 Layout	1:500	A3
201050 - 15	Turbine 3 Layout	1:500	A3
201050 - 16	Turbine 4 Layout	1:500	A3
201050 - 17	Turbine 5 Layout	1:500	A3
201050 - 18	Turbine 6 Layout	1:500	A3
201050 - 19	Turbine 7 Layout	1:500	A3
201050 - 20	Turbine 8 Layout	1:500	A3
201050 - 21	Turbine 9 Layout	1:500	A3
201050 - 22	Temporary Construction Compound	1:500	A3
201050 - 23	Met Mast	As Shown	A3
201050 - 24	Wind Turbine Elevations & Plan	1:500	A1
201050 - 25	Existing Road for Upgrade Excavated Road Section	1:50	A3
201050 - 26	Proposed New Excavated Road Section	1:50	A3
201050 - 27	Excavated road section in Site-Specific Flood Modelled Zones		A3
201050 - 27	<u> </u>	1:50 1:20	A3
	Site Signage Field Gate Detail		
201050 - 29		1:20	A3
201050 - 30	Site Office & Staff Facilities Detail	1:100	A3
201050 - 31	Clear Span Bridge Crossing	As Shown	A3
201050 – 32	33kV Cable Trench Sections	1:10	A3
Drawing No.	HES Drawings	Scale	Page Size
D101	Proposed Drainage Layout	1: 2,000	A1
D102	Proposed Drainage Layout	1: 2,000	A1
D103	Proposed Drainage Layout	1: 2,000	A1
D104	Proposed Drainage Layout	1: 2,000	A1
D105	Proposed Drainage Layout	1: 2,000	A1
D501	Drainage Details 1	As Shown	A1
D502	Drainage Details 2	As Shown	A1
D503	Drainage Details 3	As Shown	A1
2000	Ziming Domio	1.10 0110 1/11	

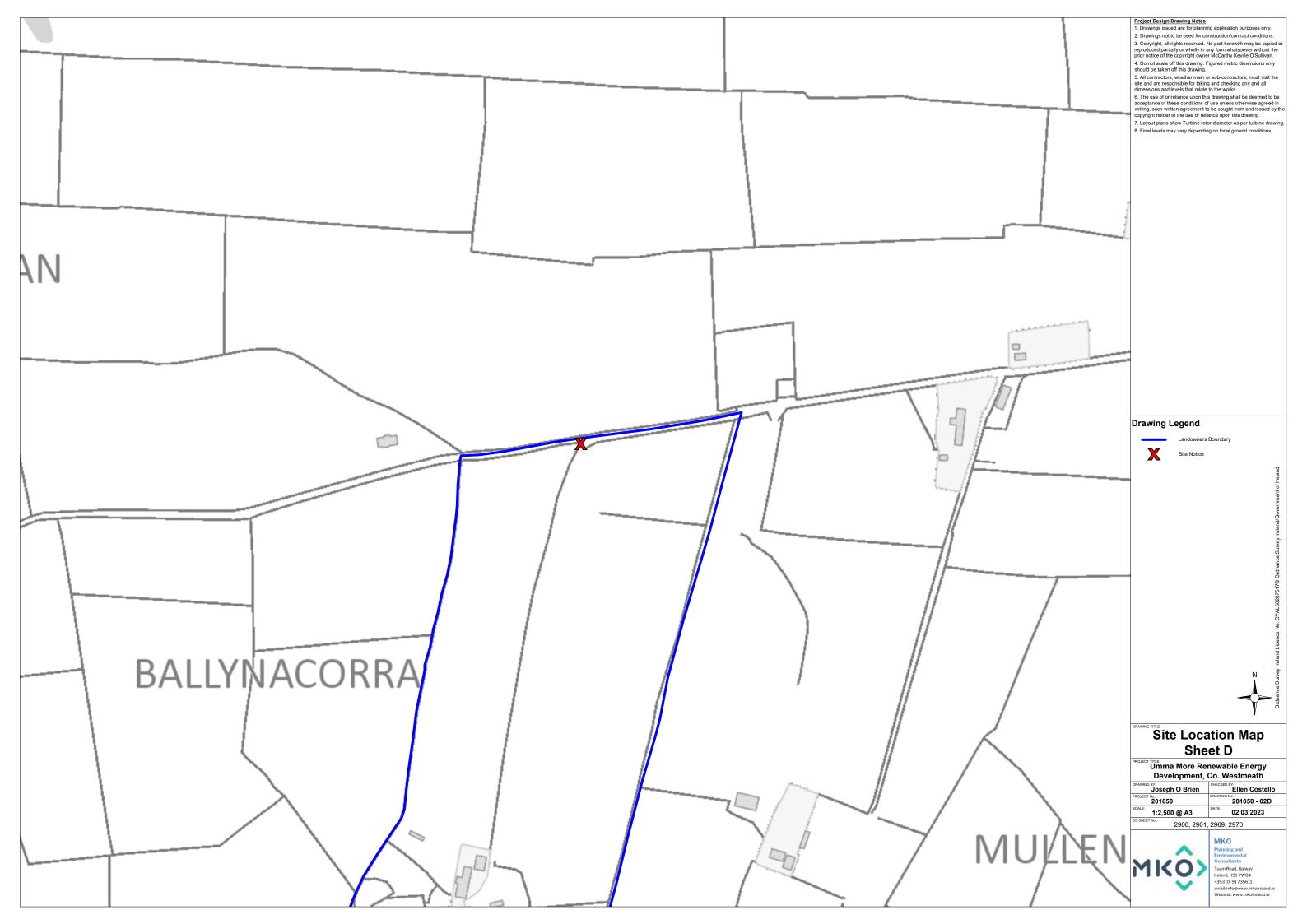


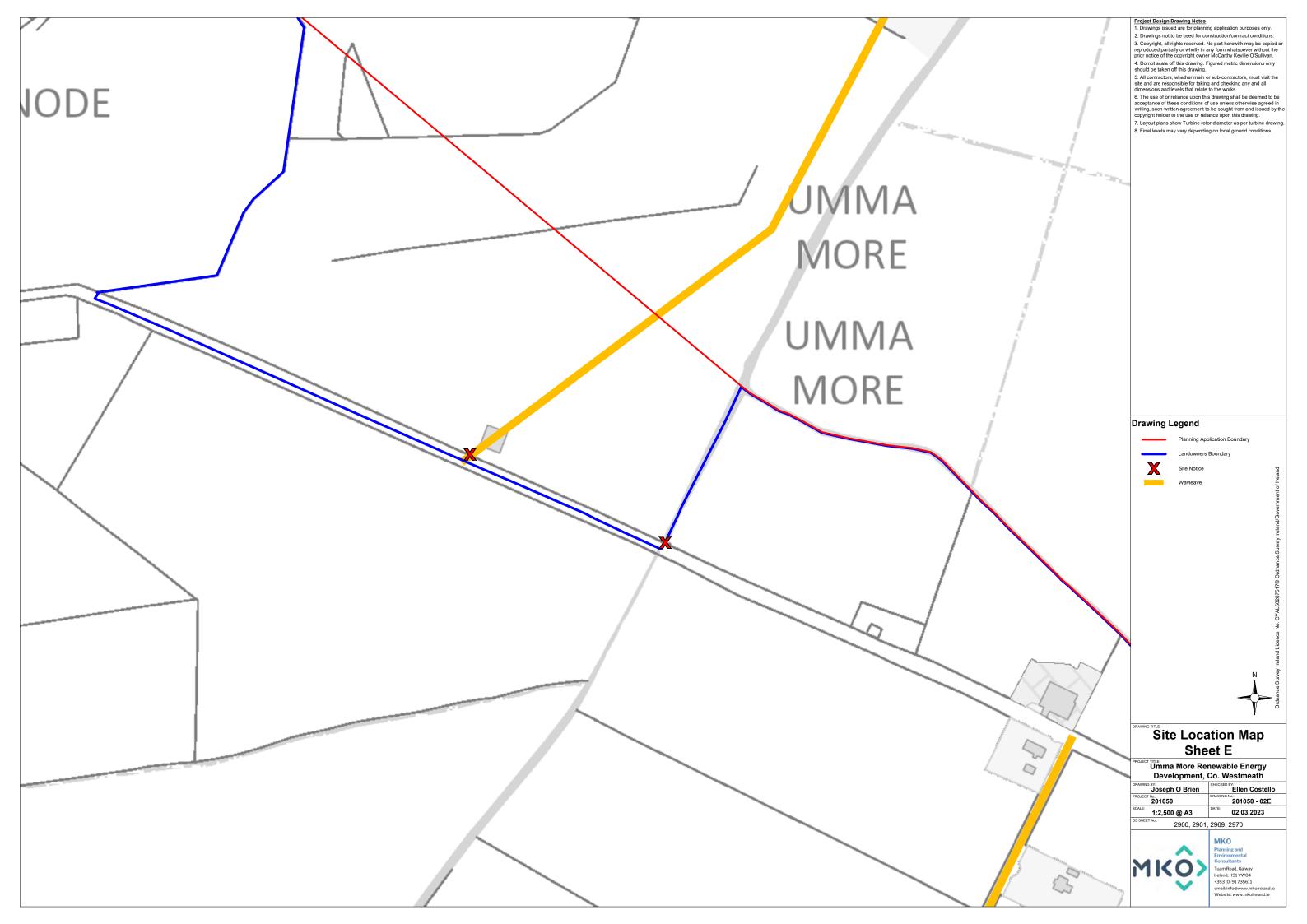


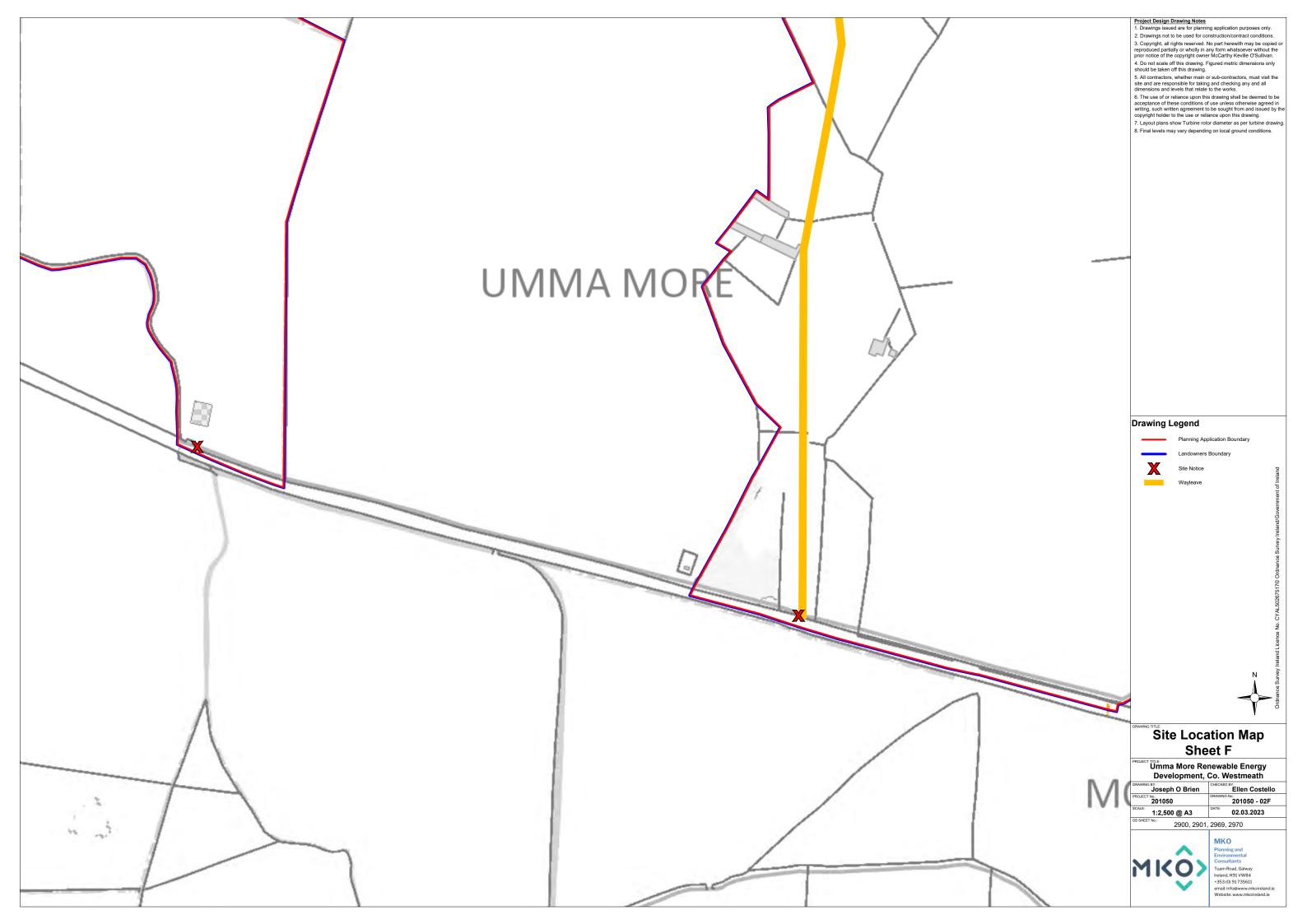


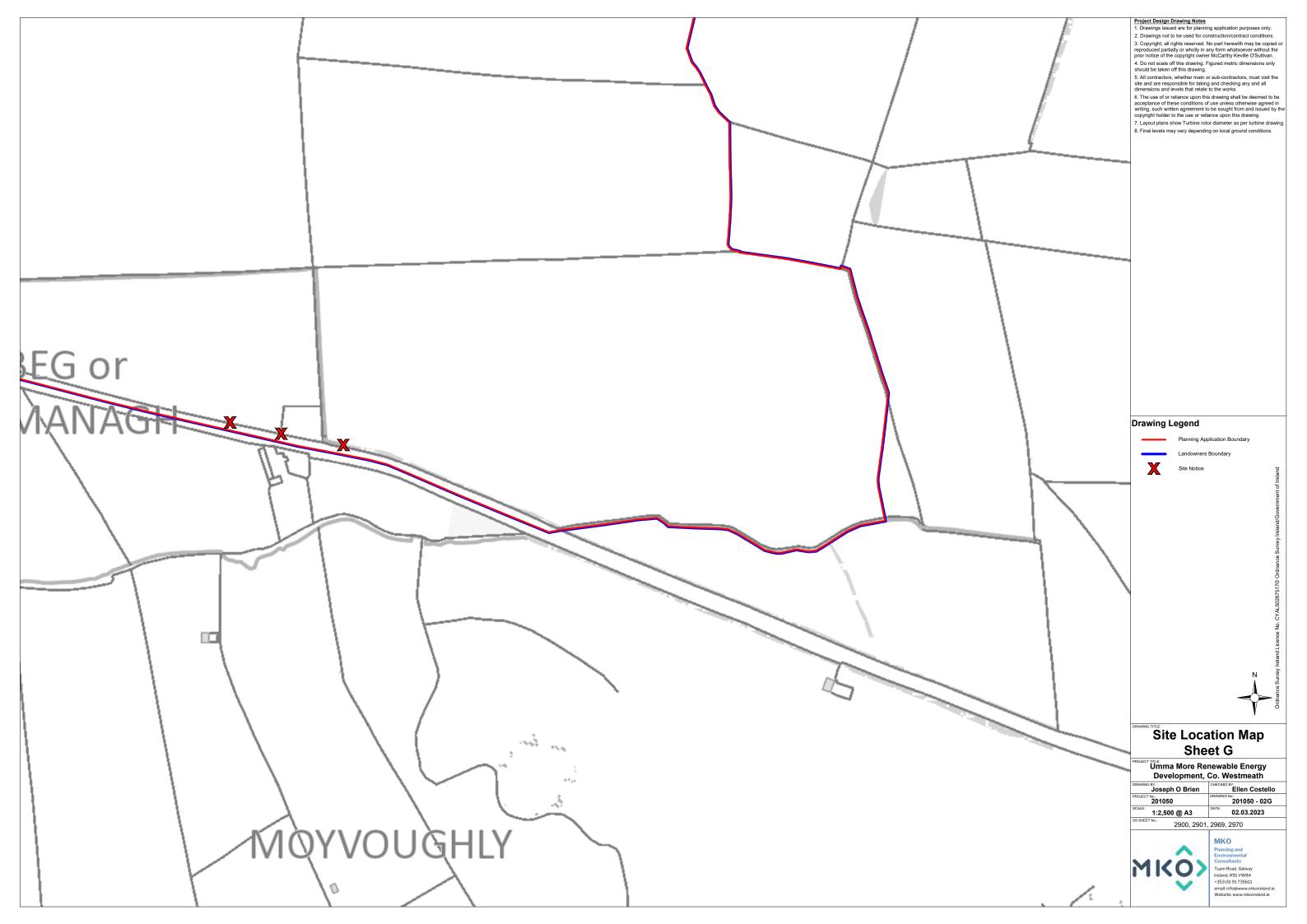


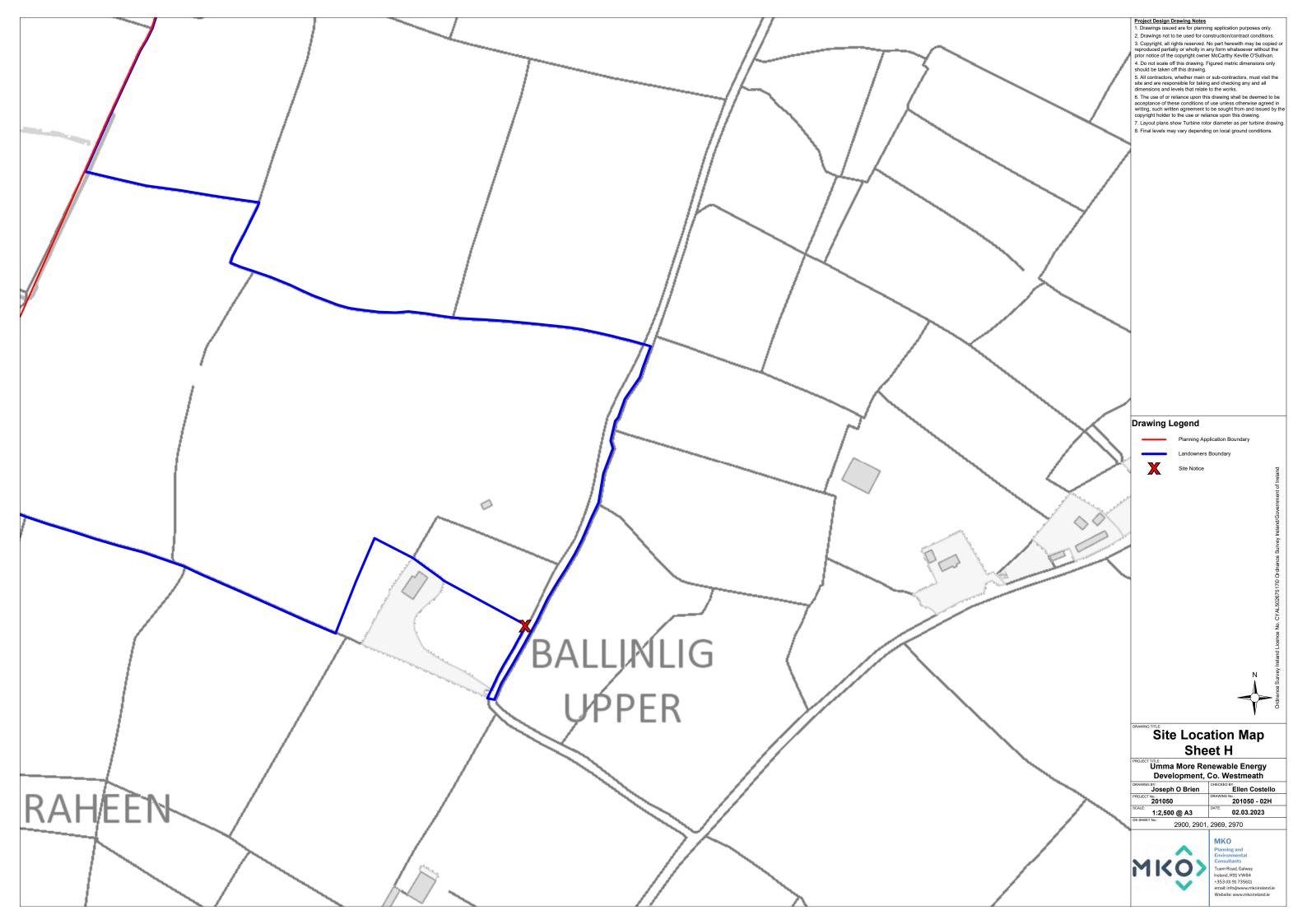


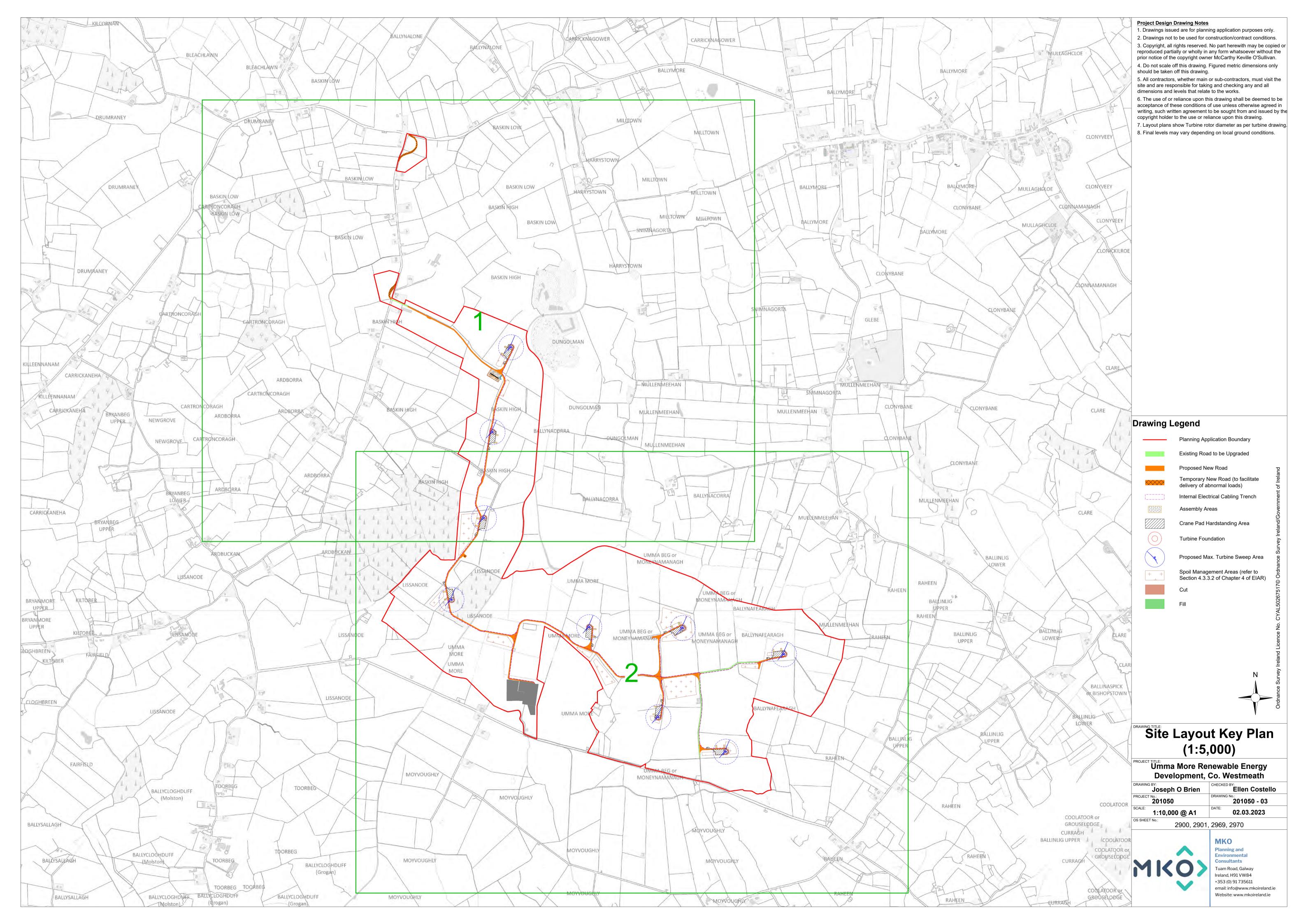




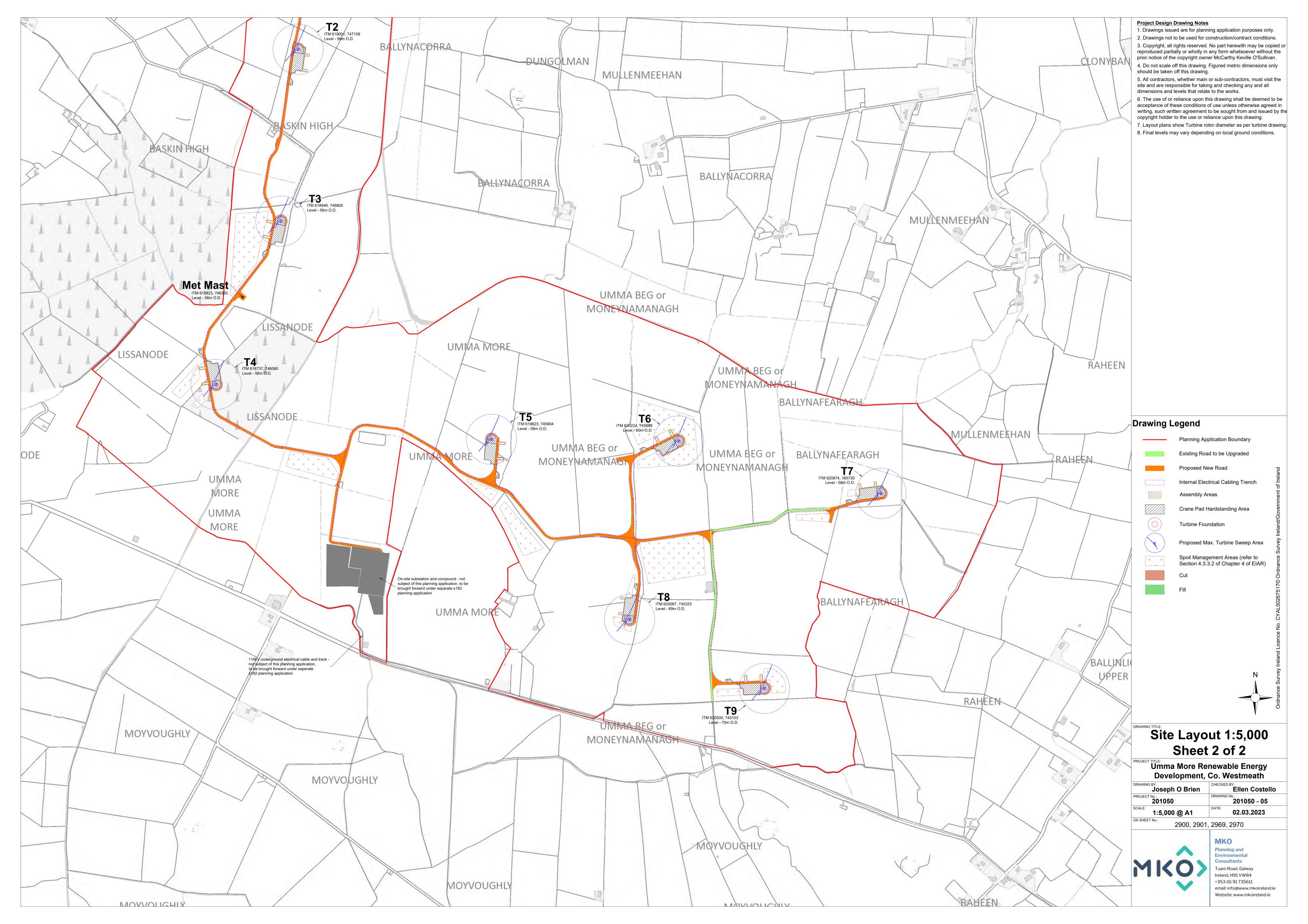


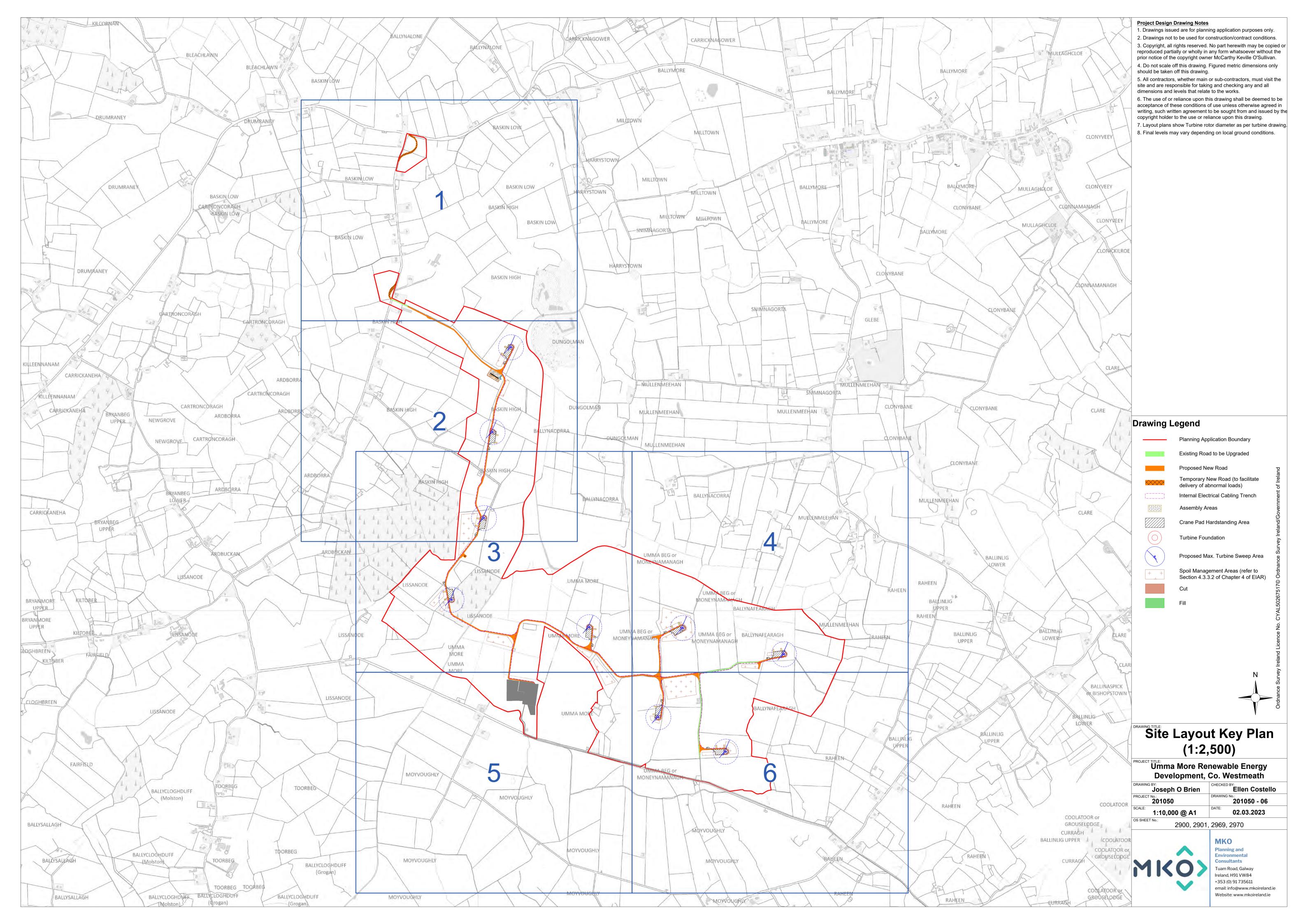






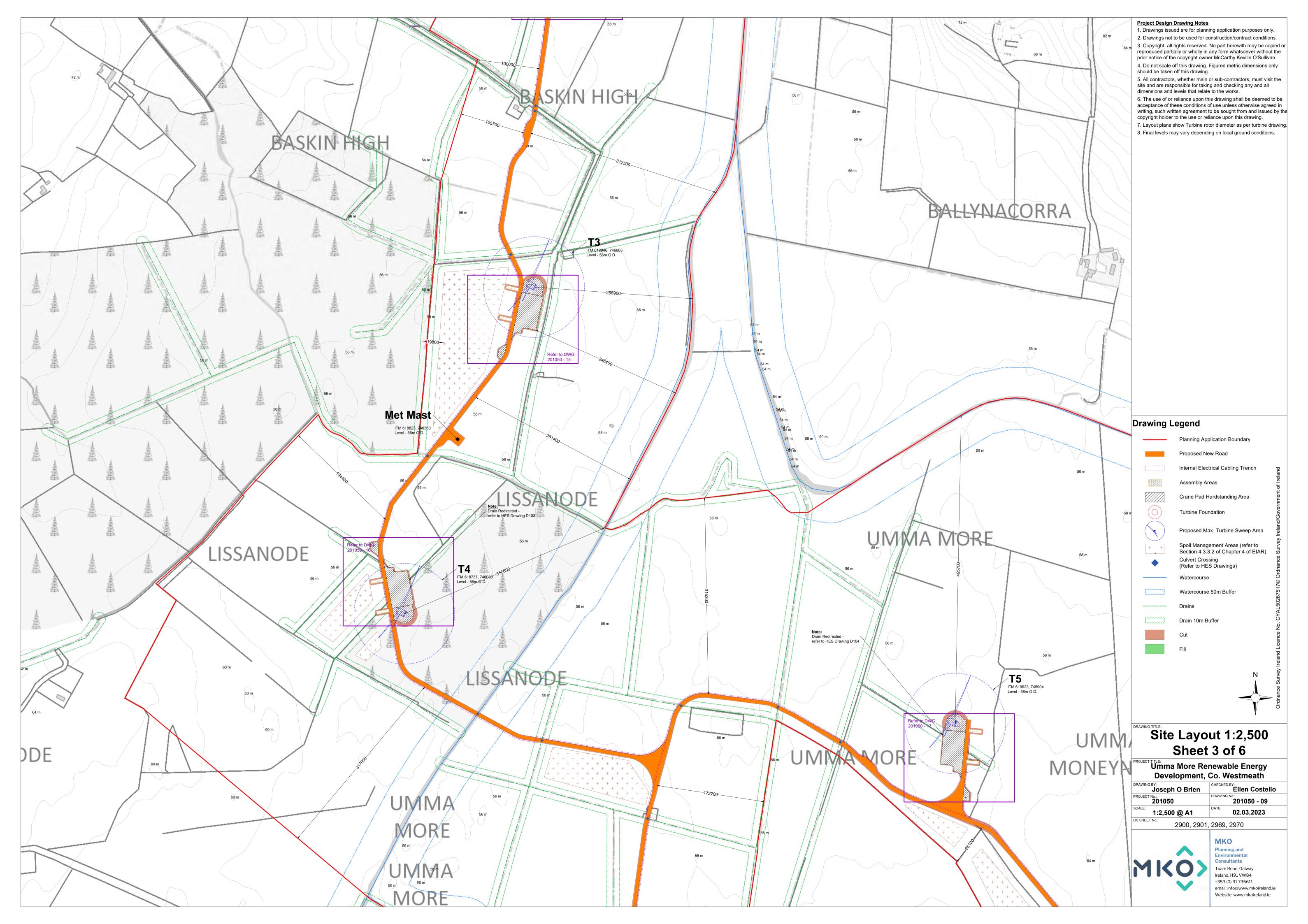


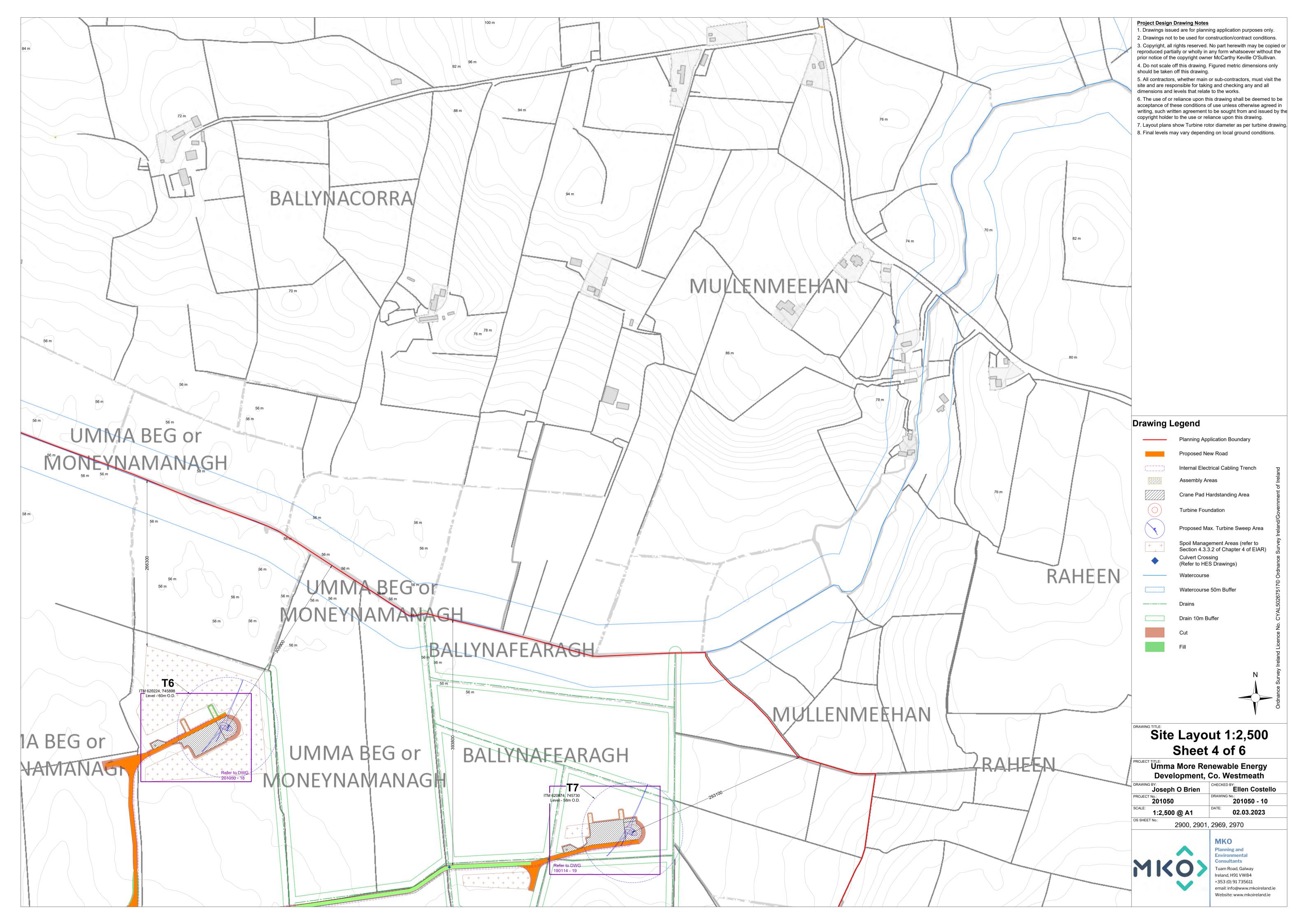


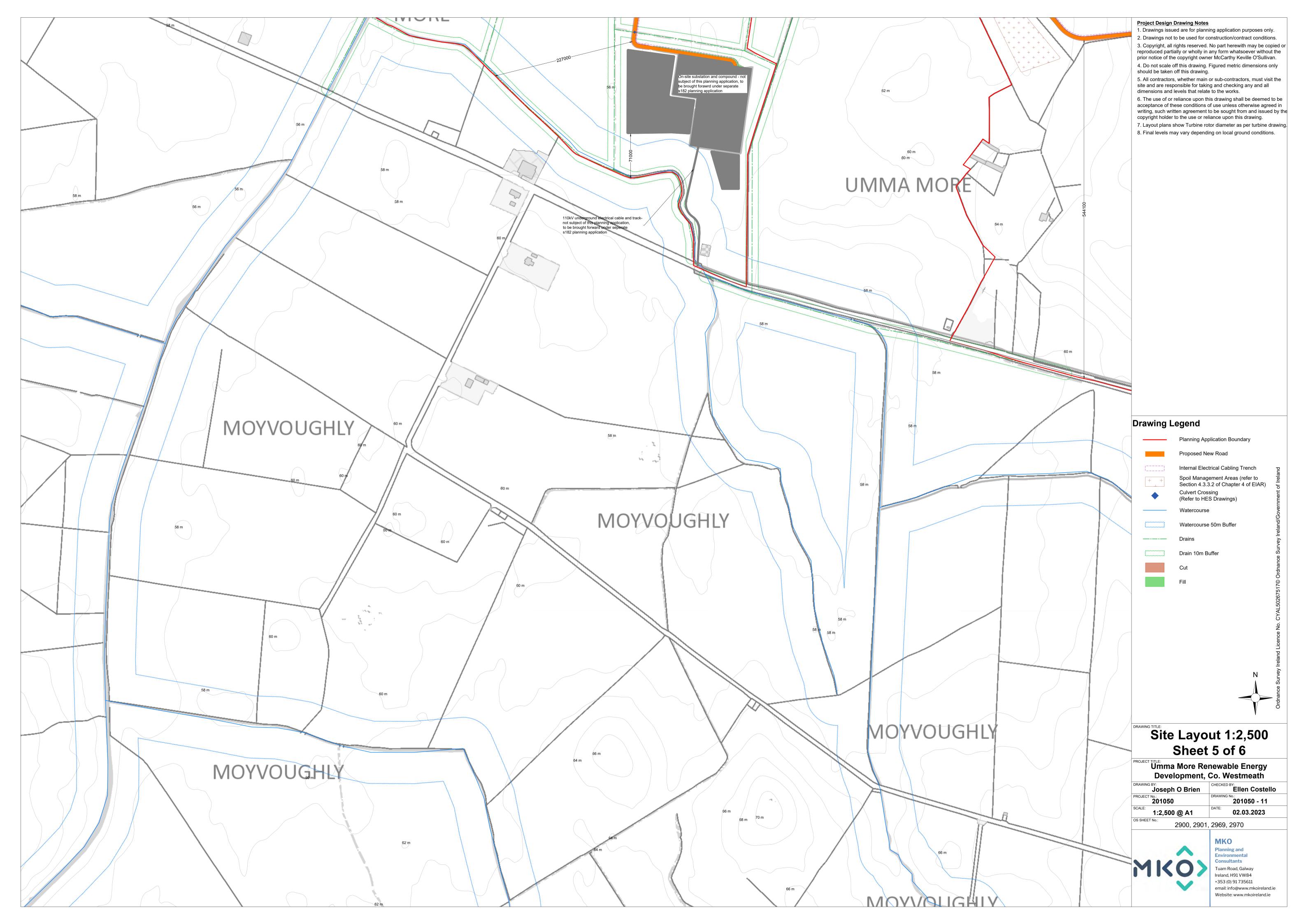


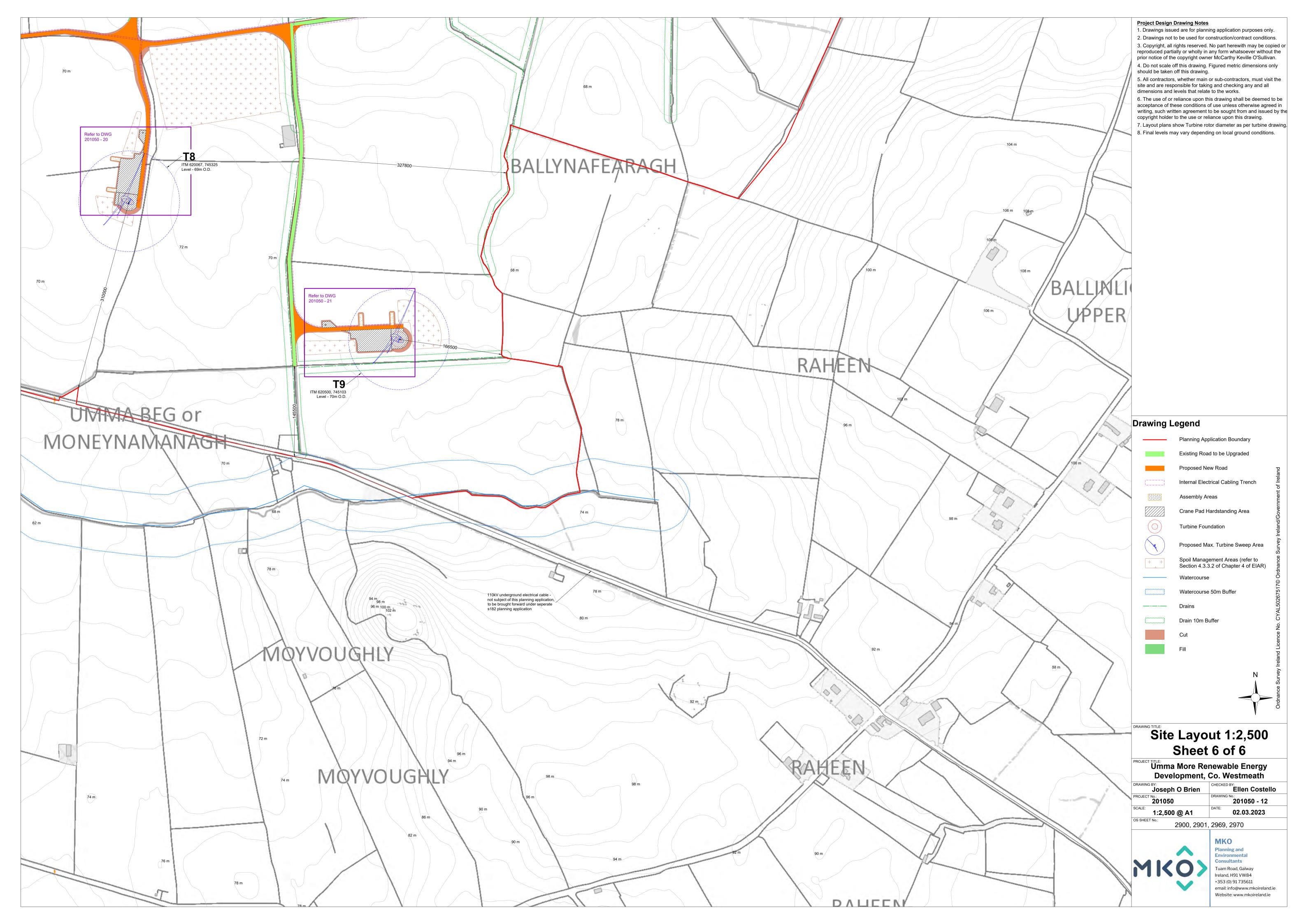


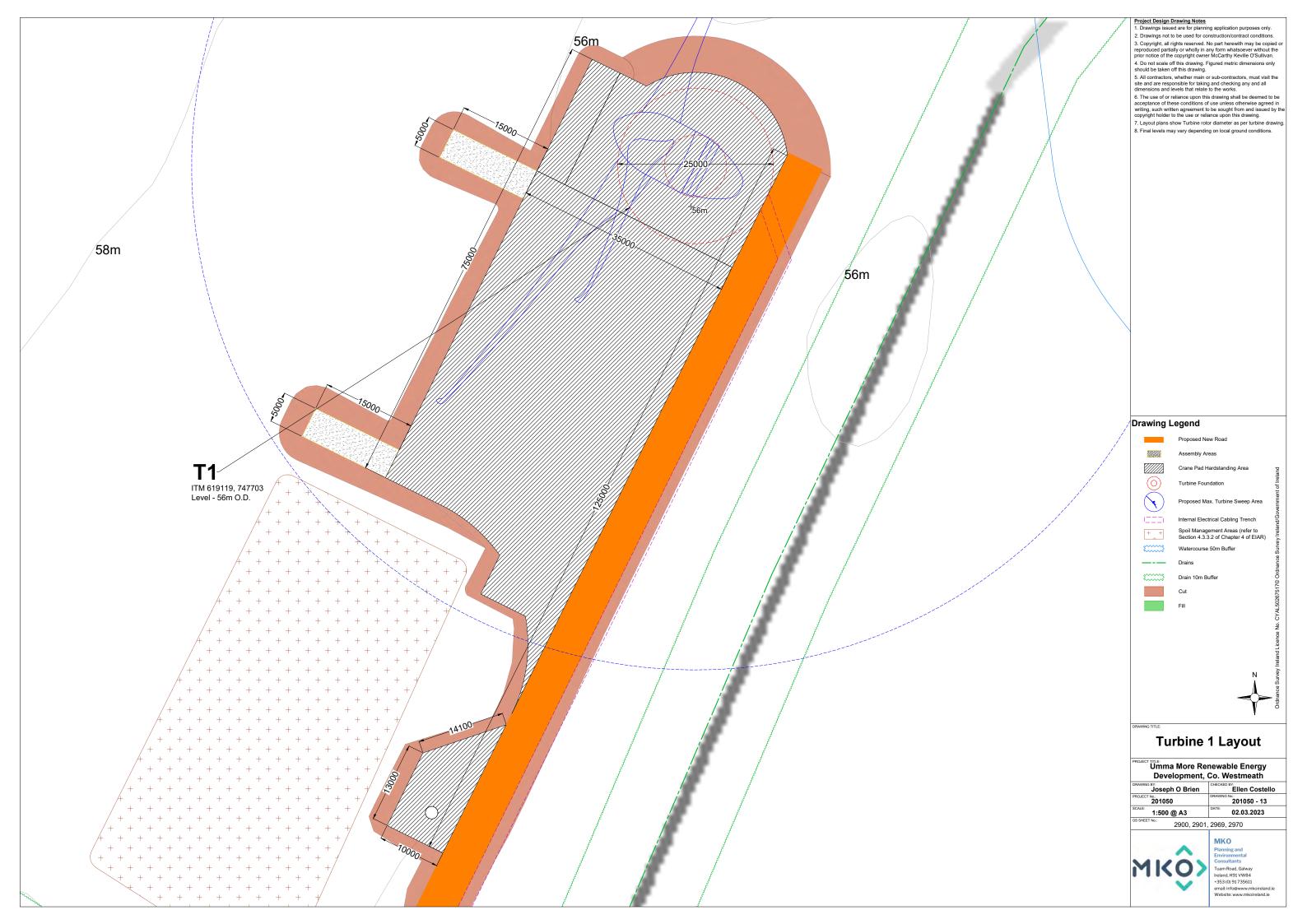




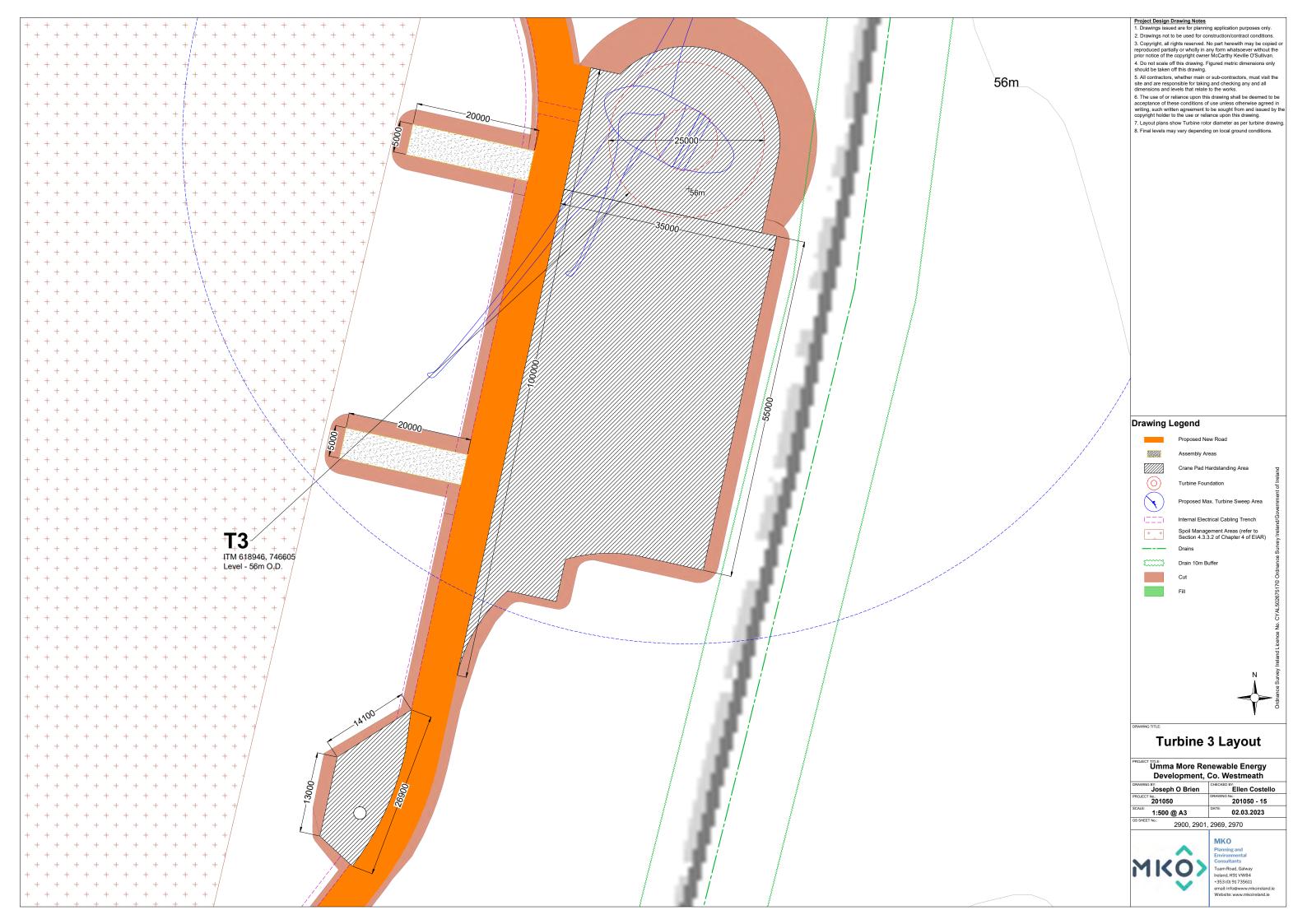






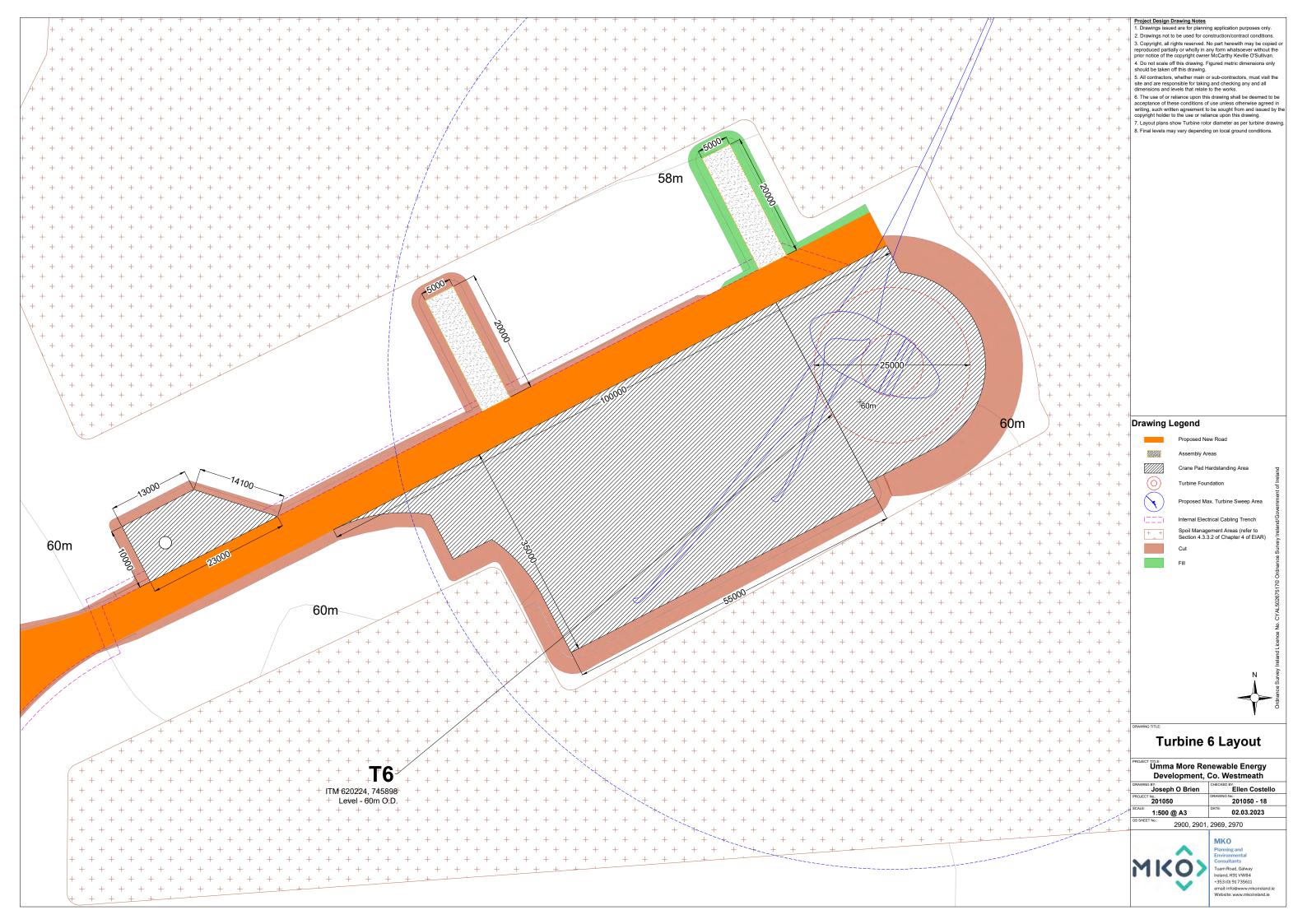


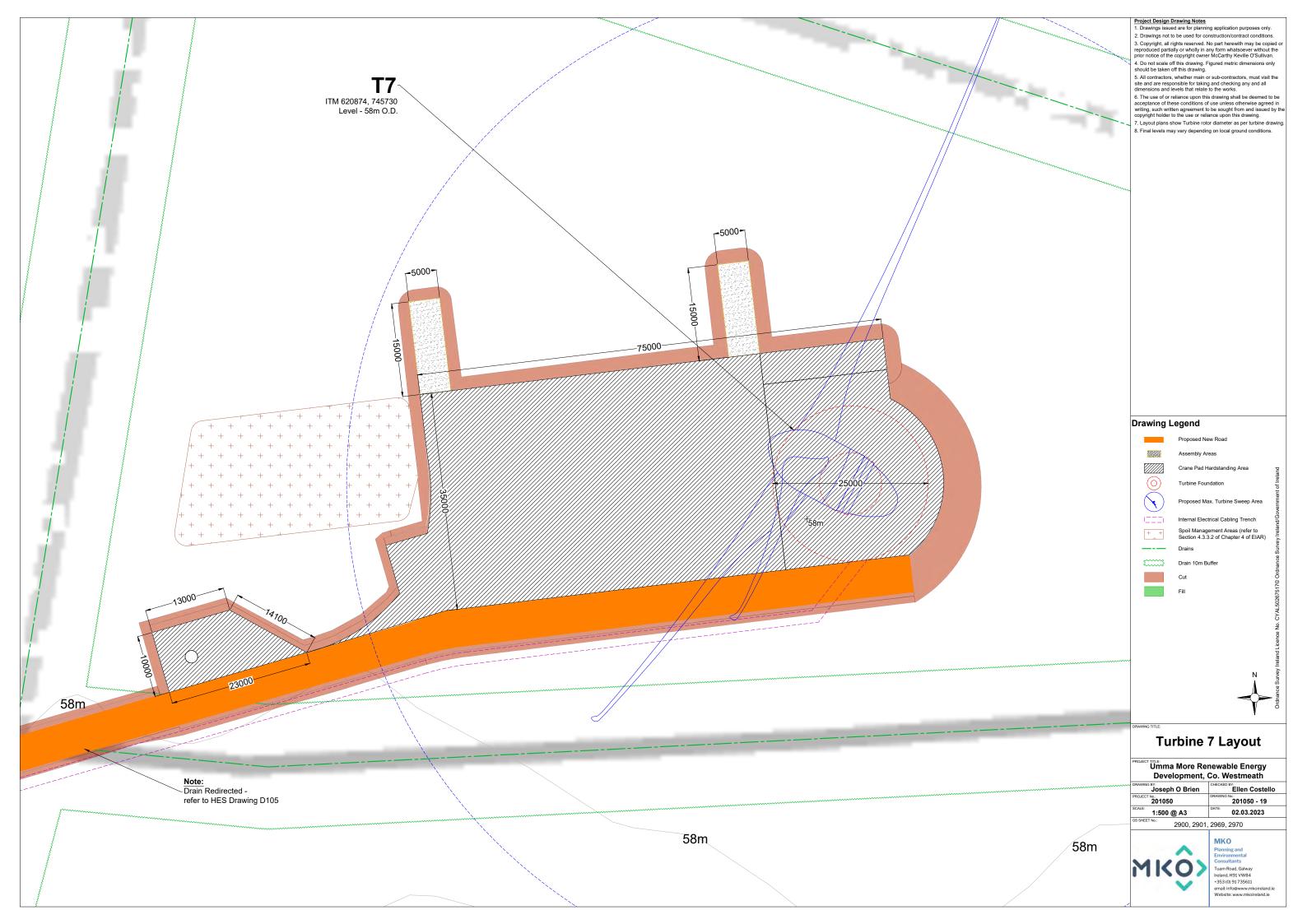




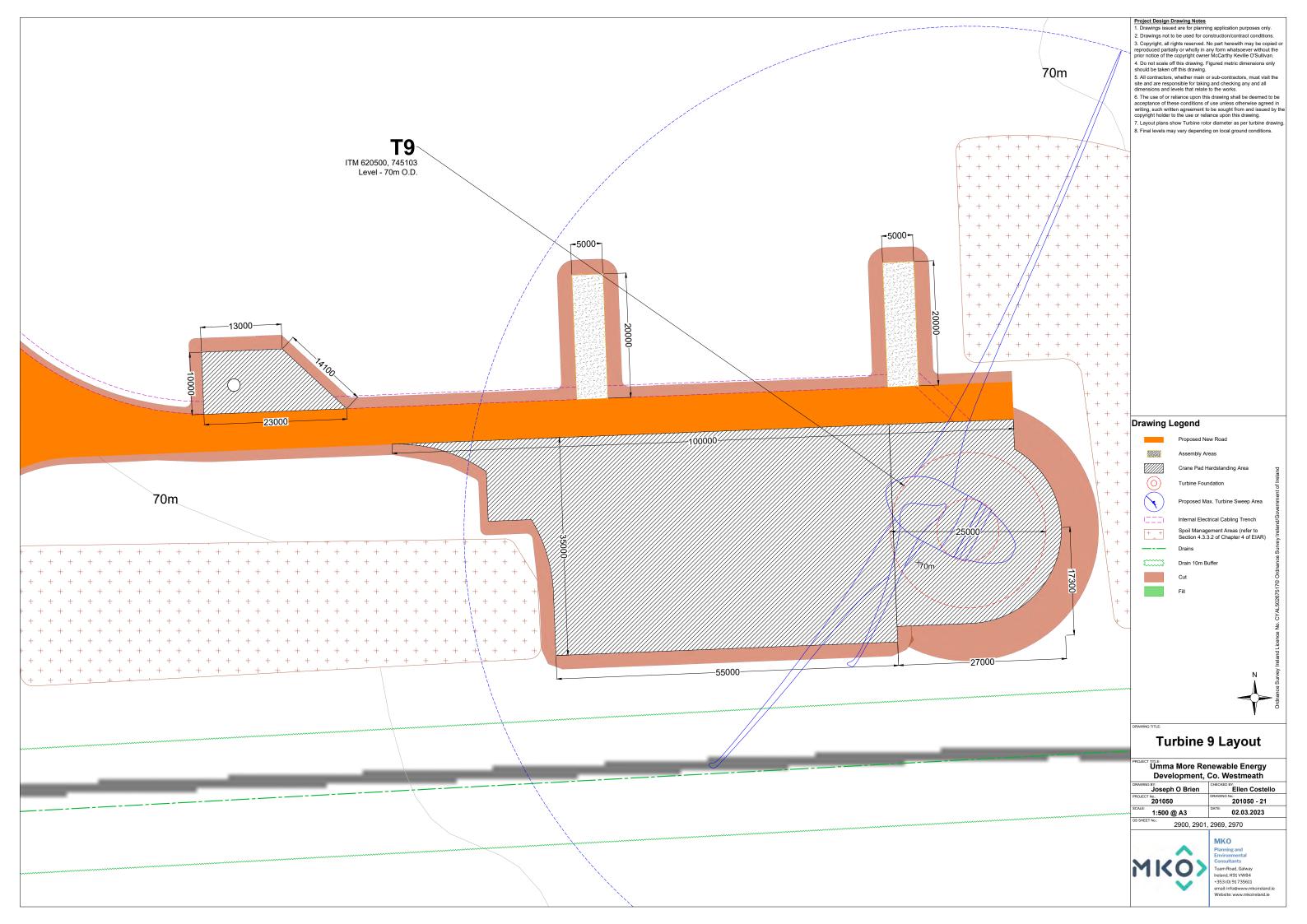




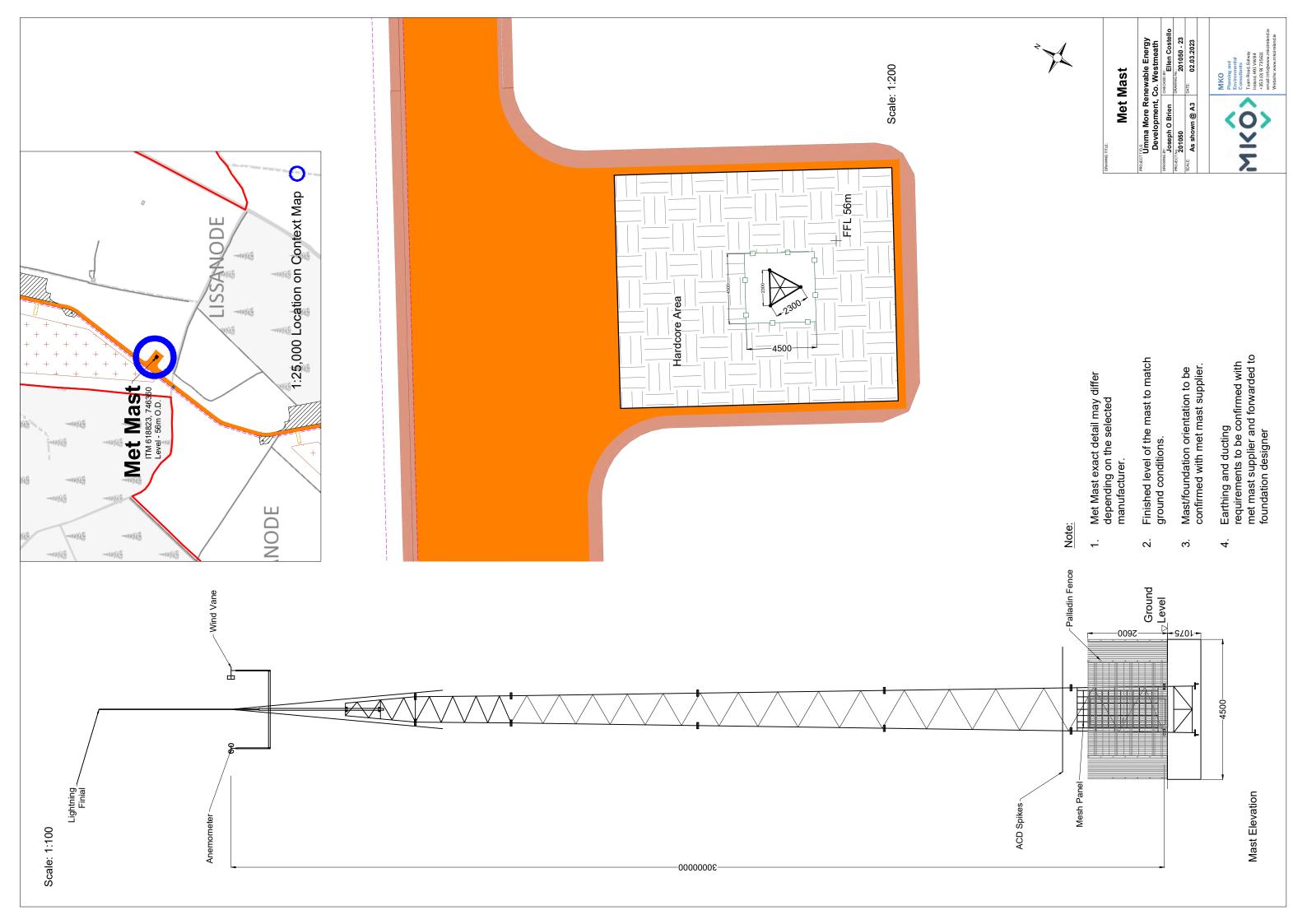


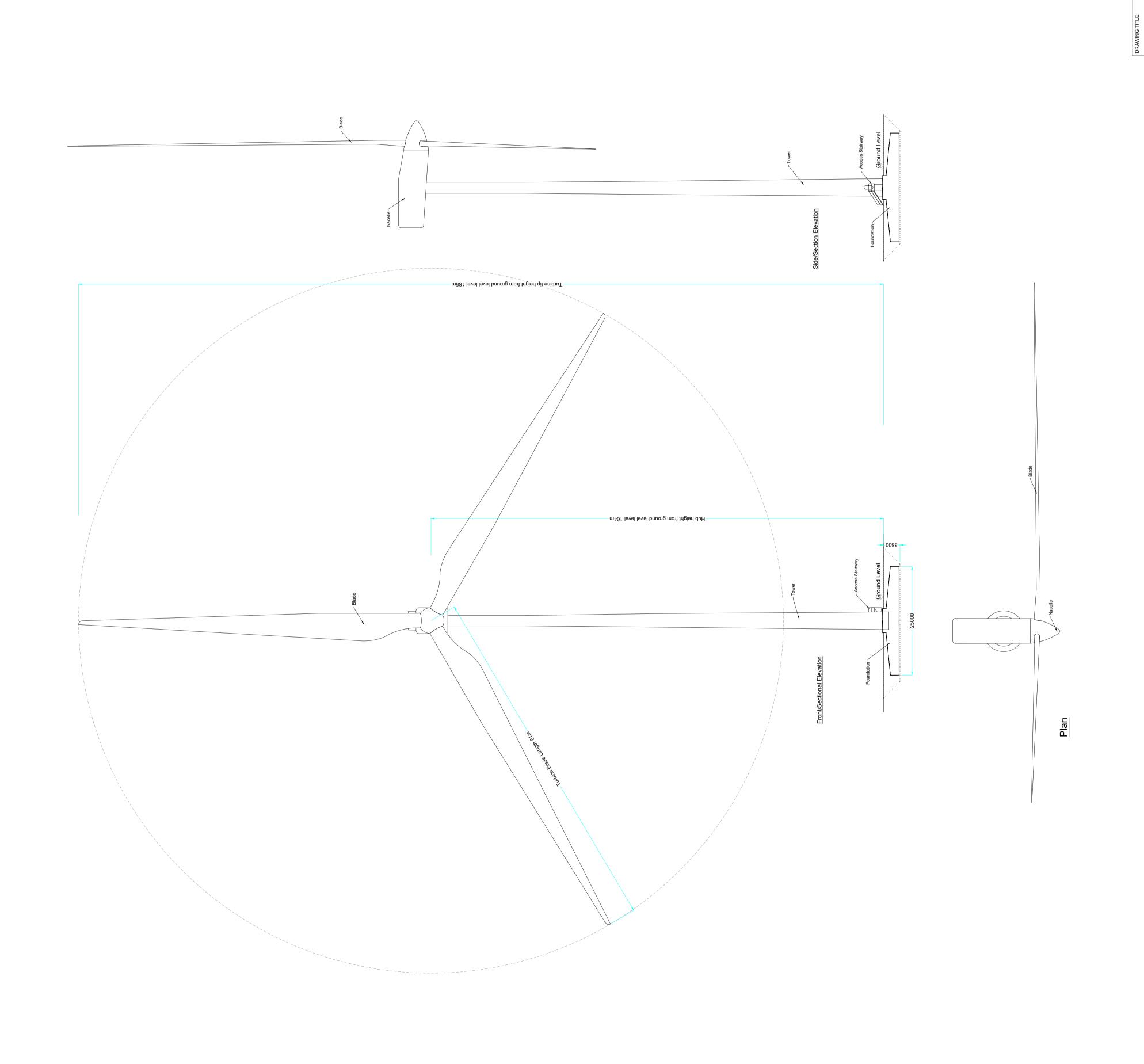












Mind Turbine
Elevations & Plan
Elevations & Plan
Elevations & Plan
ECTTUTE:

MING BY:

Joseph O Brien

Joseph O Brien

201050

ATTUTE:

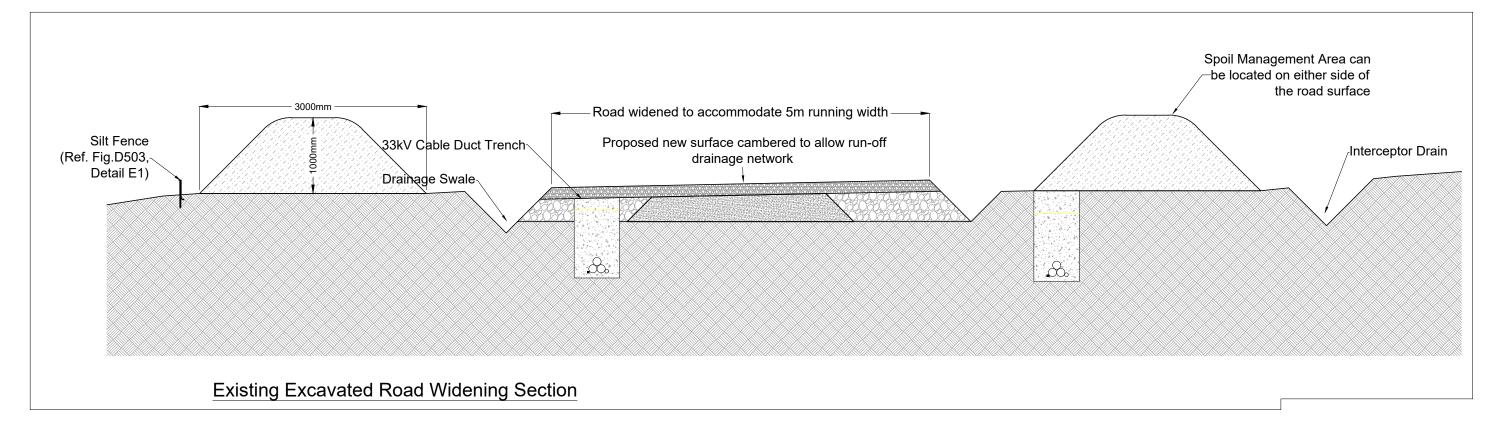
LISO0 @A1

Development, Co. Westmeath
CHECKED BY:
Ellen Costello
DRAWING NO.:
201050 - 24

201050

Drawing Notes

- Widening can occur to either side of existing roads dependent on site conditions.
- Depths of road fill to vary dependent on site conditions.



The cabling may be placed on either side of the roads, on both sides of the road or within the road. The exact configuration of the underground cabling will be set by the requirements of the electrical designers at detailed design stage.

## Existing Road for Upgrade Excavated Road Section PROJECT TITLE Umma More Renewable Energy

Development, Co. Westmeath

Development, Co. Westmeath

Drawling BY:

Joseph O Brien

CHECKED BY:

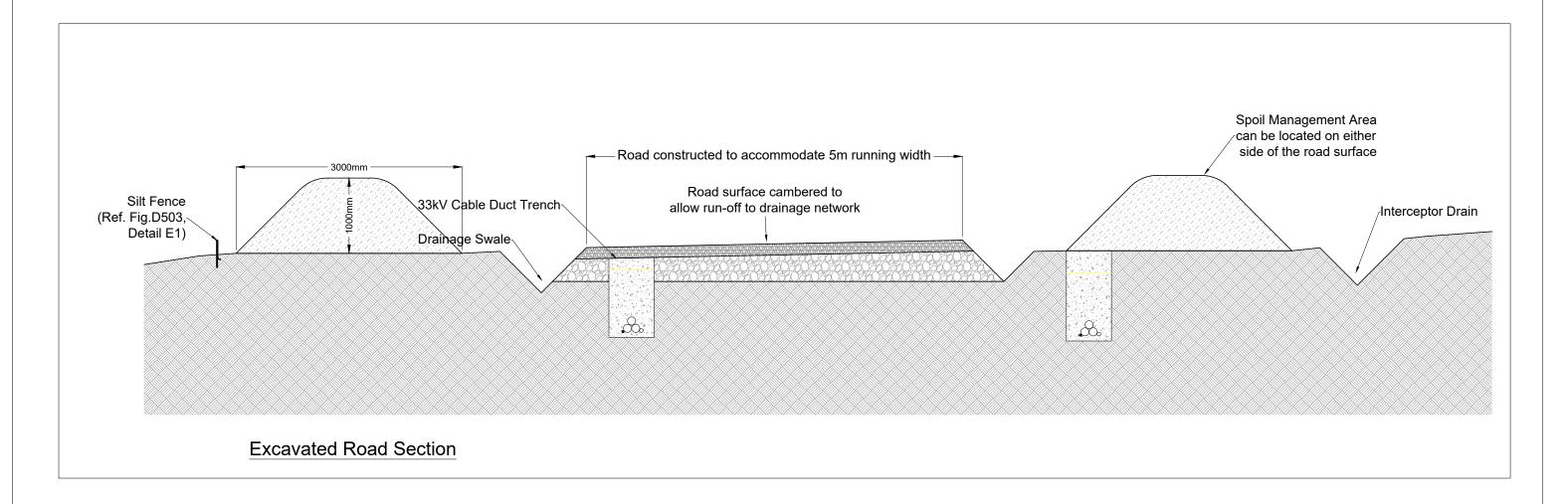
Ellen Cost

Joseph O Brien	Ellen Costello
PROJECT No.: 201050	DRAWING No.: 201050 - 25
1:50@A3	02.03.2023



### Drawing Notes

- Widening can occur to either side of existing roads dependent on site conditions.
- . Depths of road fill to vary dependent on site conditions.



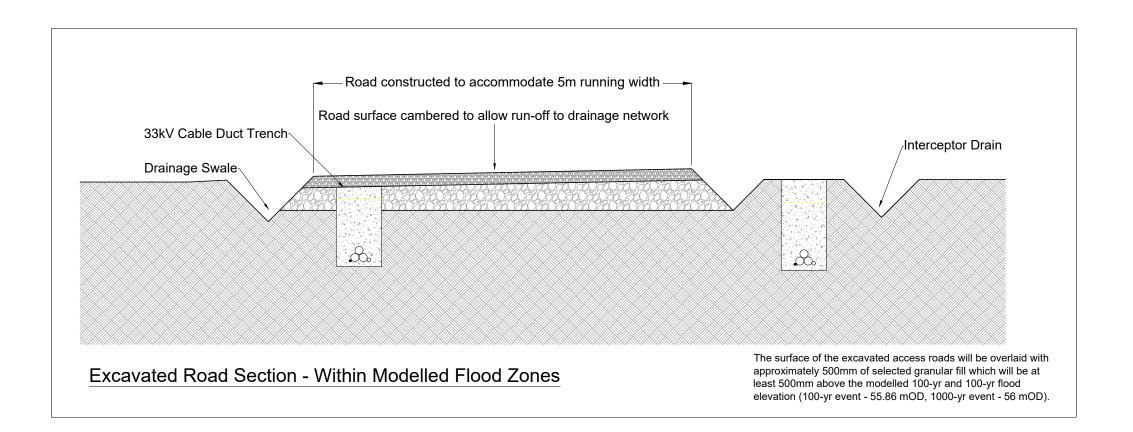
The cabling may be placed on either side of the roads, on both sides of the road or within the road. The exact configuration of the underground cabling will be set by the requirements of the electrical designers at detailed design stage.

### Proposed New Excavated Road Section

Umma More Renewable Energy
Development, Co. Westmeath

Joseph O Brien	Ellen Costello
PROJECT No.: 201050	DRAWING No.: 201050 - 26
1:50@A3	02.03.2023





The cabling may be placed on either side of the roads, on both sides of the road or within the road. The exact configuration of the underground cabling will be set by the requirements of the electrical designers at detailed design stage.

## Excavated road section in Site-Specific Flood Modelled Zones

Drawing Notes

on site conditions.

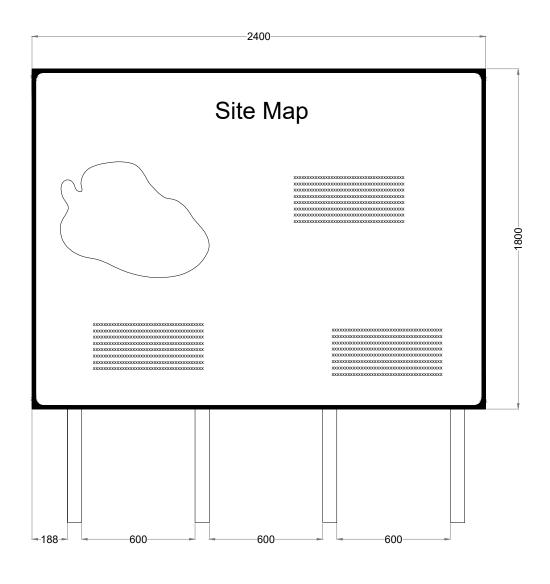
Widening can occur to either side of existing roads dependent on site conditions.

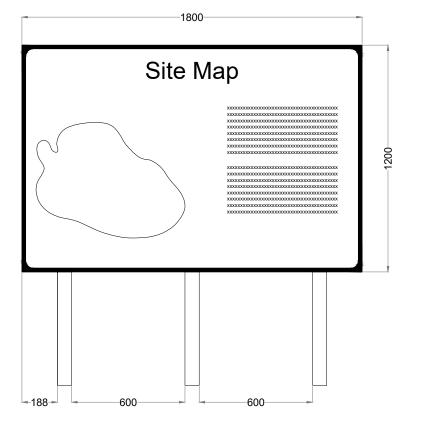
Depths of road fill to vary dependent

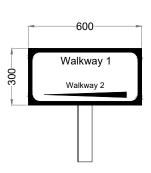
Umma More Renewable Energy
Development, Co. Westmeath

Joseph O Brien	Ellen Costello
PROJECT No.: 201050	DRAWING No.: 201050 - 27
1:50@A3	02.03.2023







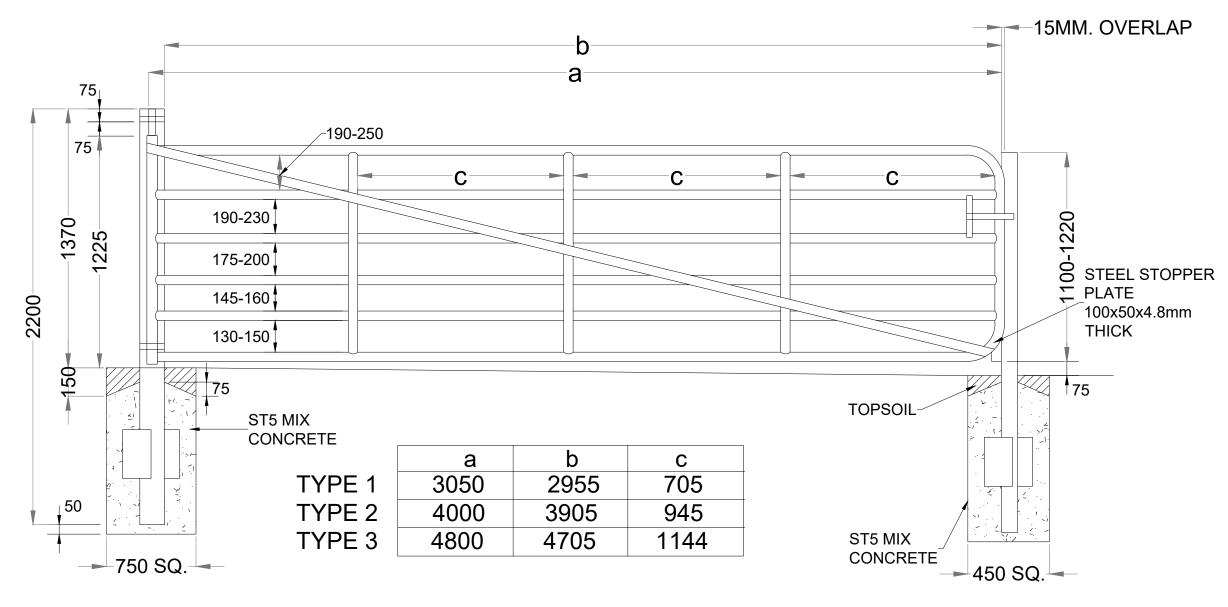


Signage Type C - Way Point Direction Signage

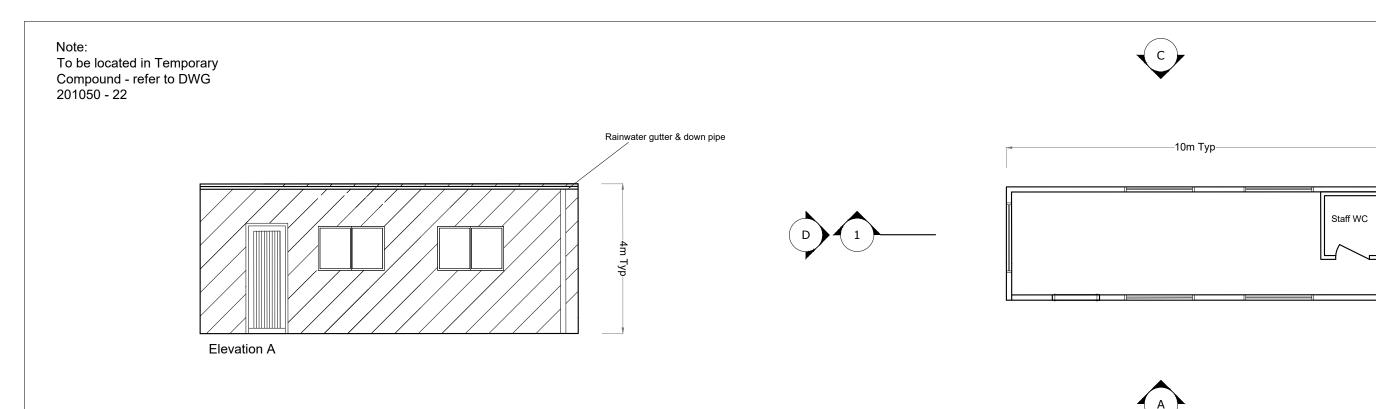
Signage Type A - Waypoint Map Signage

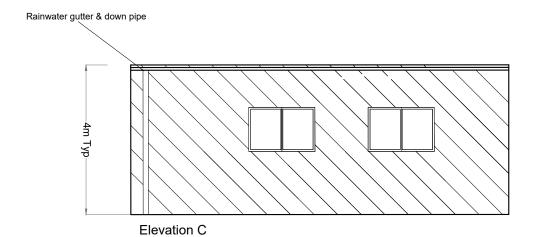
Signage Type B - Entry Point Signage

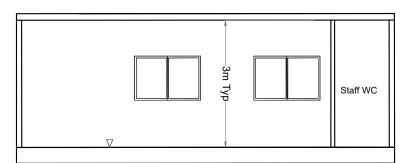




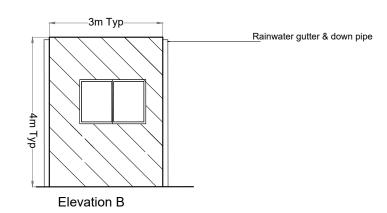


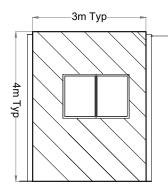






Section 1-1





Elevation D



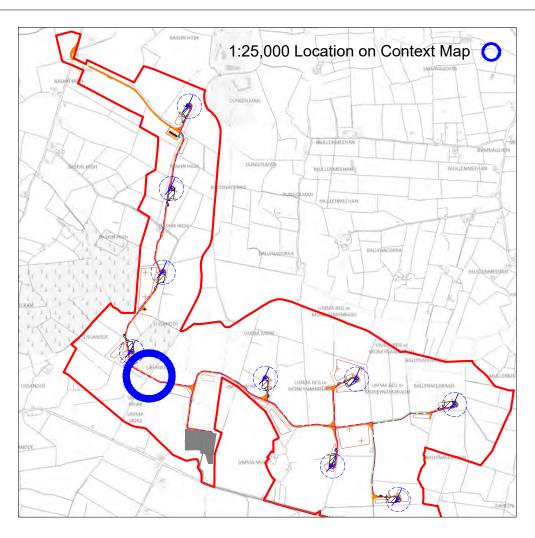
Rainwater gutter & down pipe

PROJECT WE Man More Renewable Energy
Development, Co. Westmeath

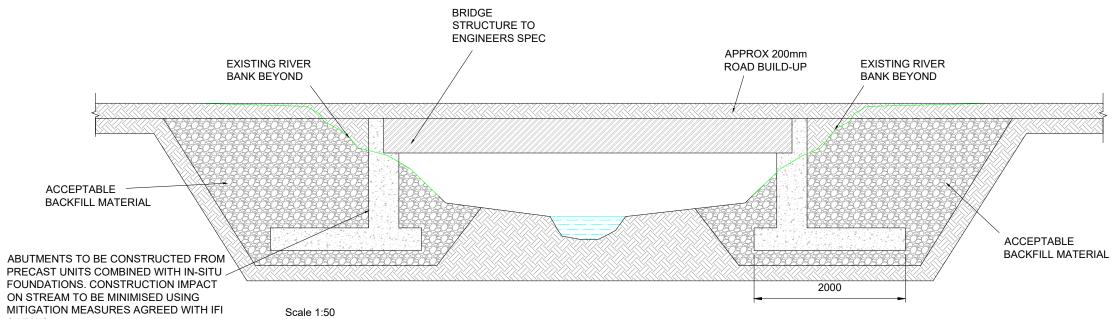
Joseph O Brien	Ellen Costello	
PROJECT No.: 201050	DRAWING No.: 201050 - 30	
1:100 @ A3	02.03.2023	

**Facilities Detail** 





& NPWS



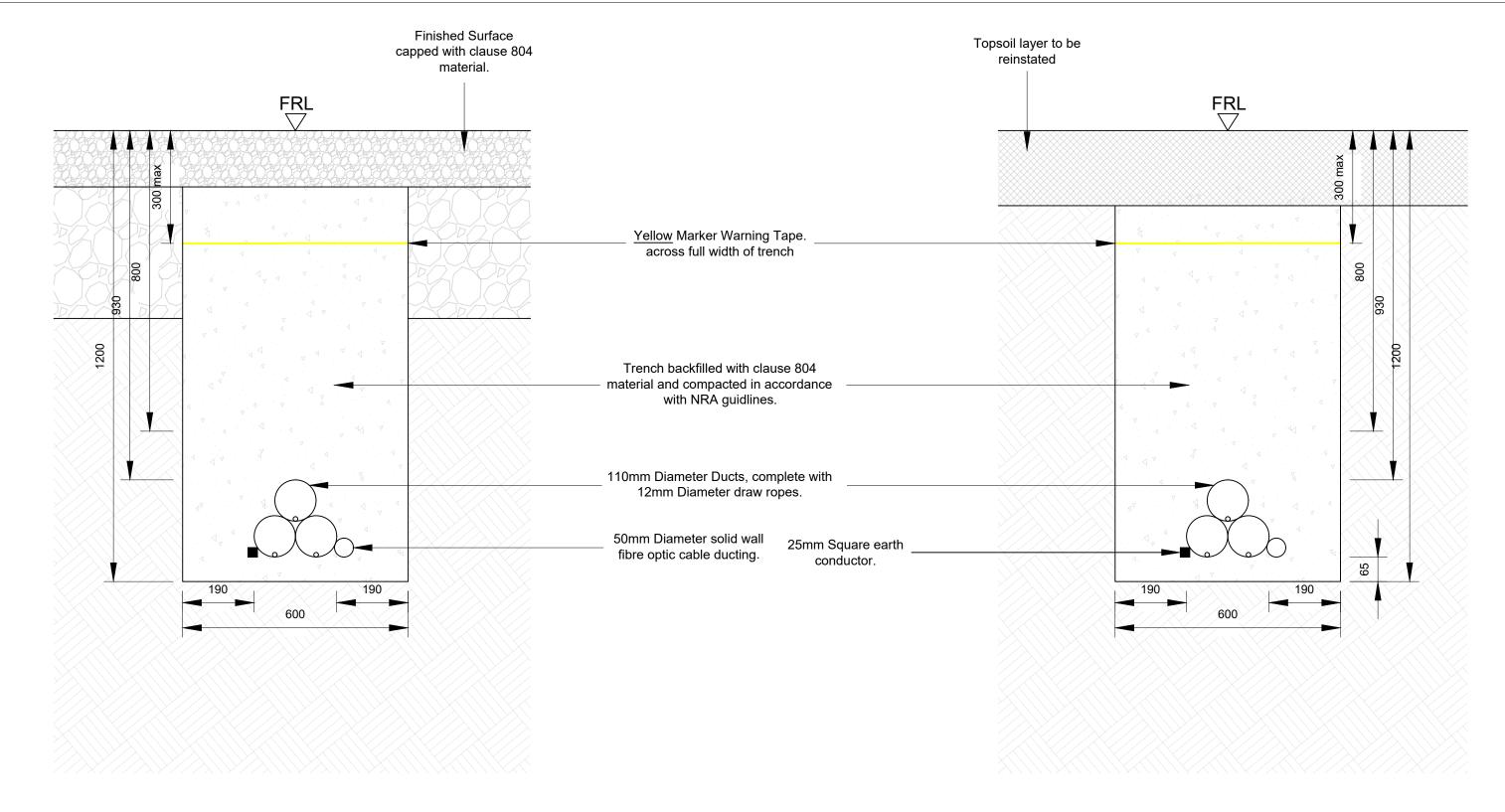


#### Clear Span Bridge Crossing

Umma More Renewable Energy Development, Co. Westmeath

Joseph O Brien	Ellen Costello
PROJECT No.: 201050	DRAWING No.: 201050 - 31
As Shown @A3	02.03.2023
OS SHEET No.: 2900, 2901, 2	2000 0070

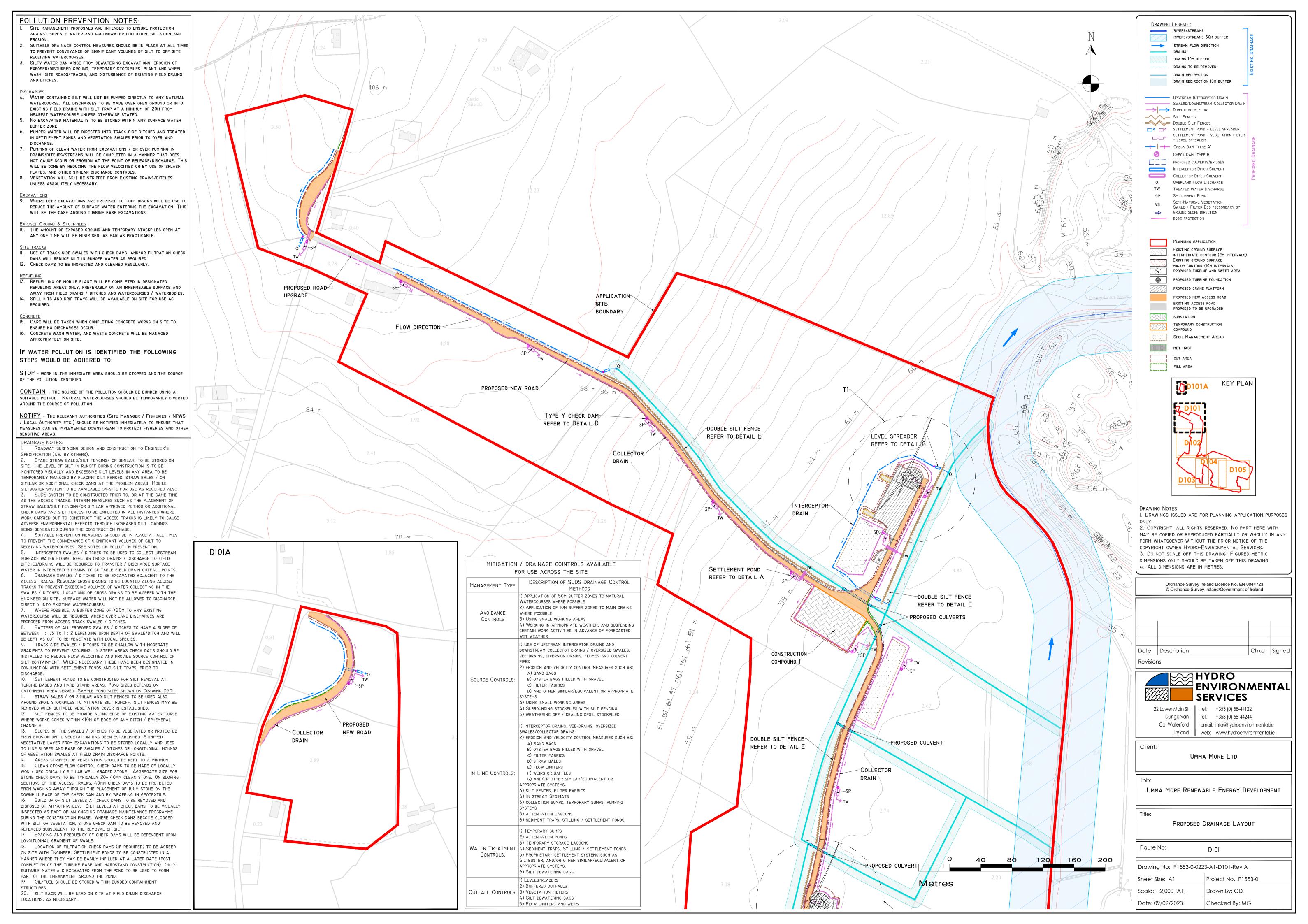


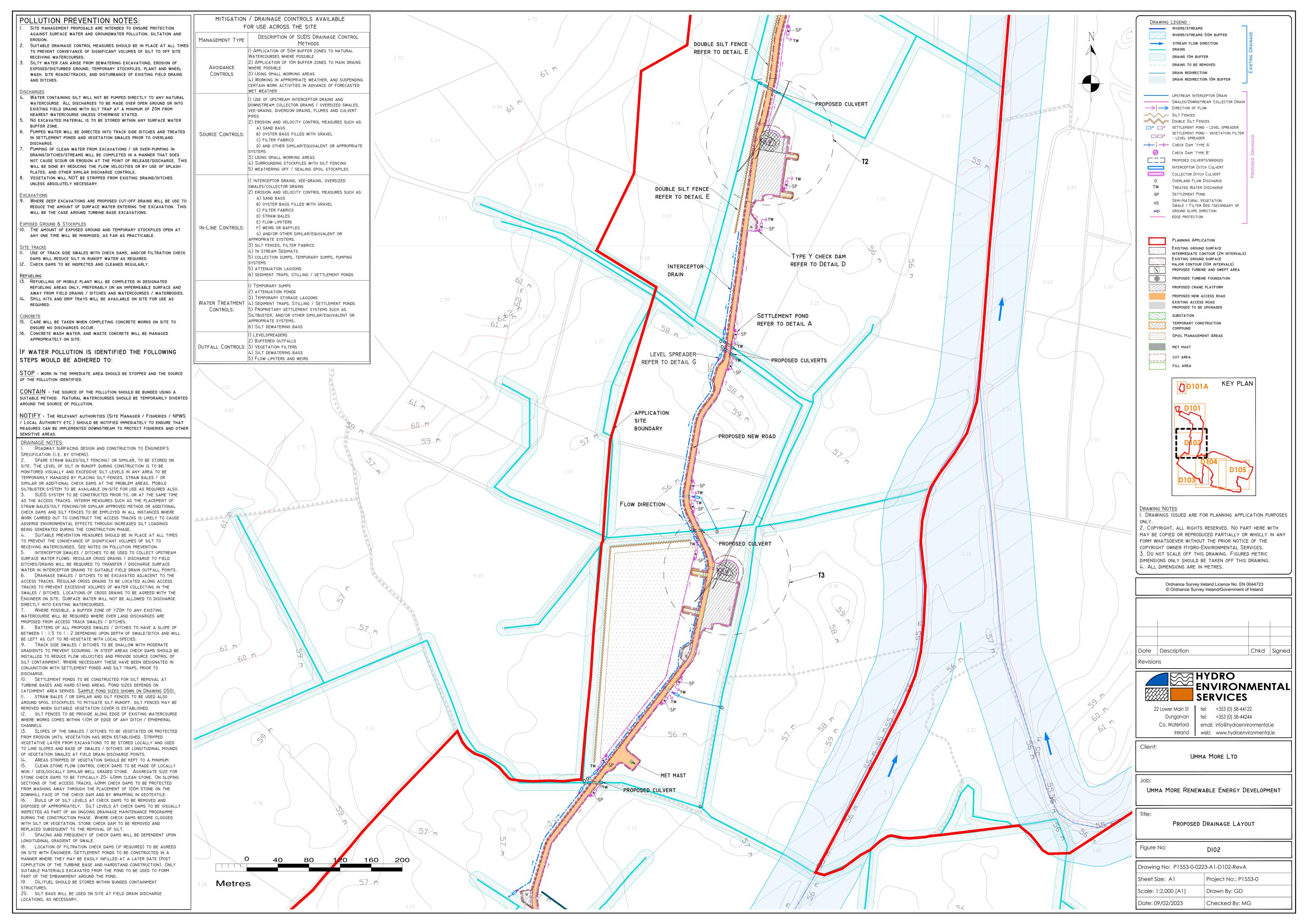


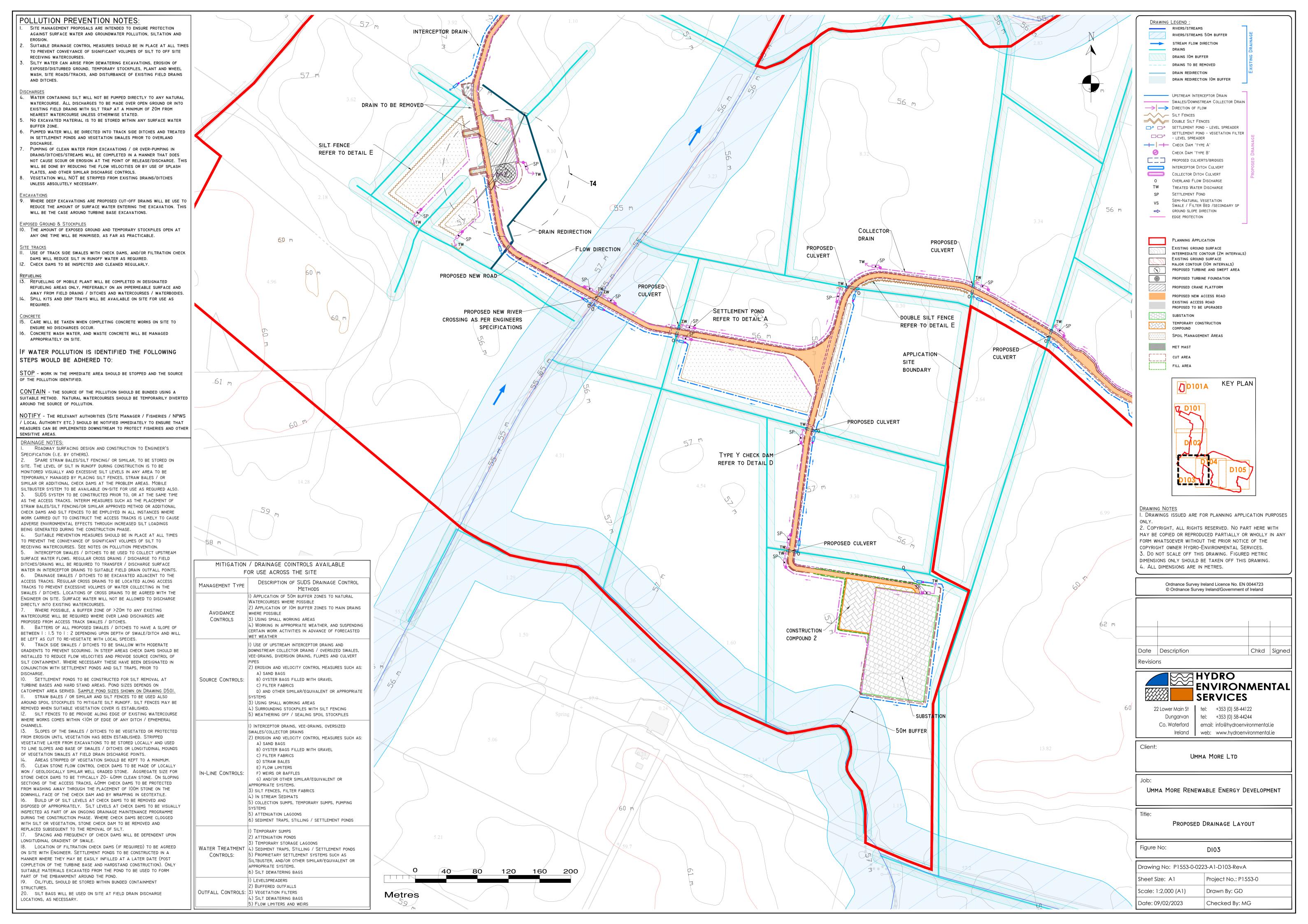
33kV Cable - On Road Trench Detail - Cross Section

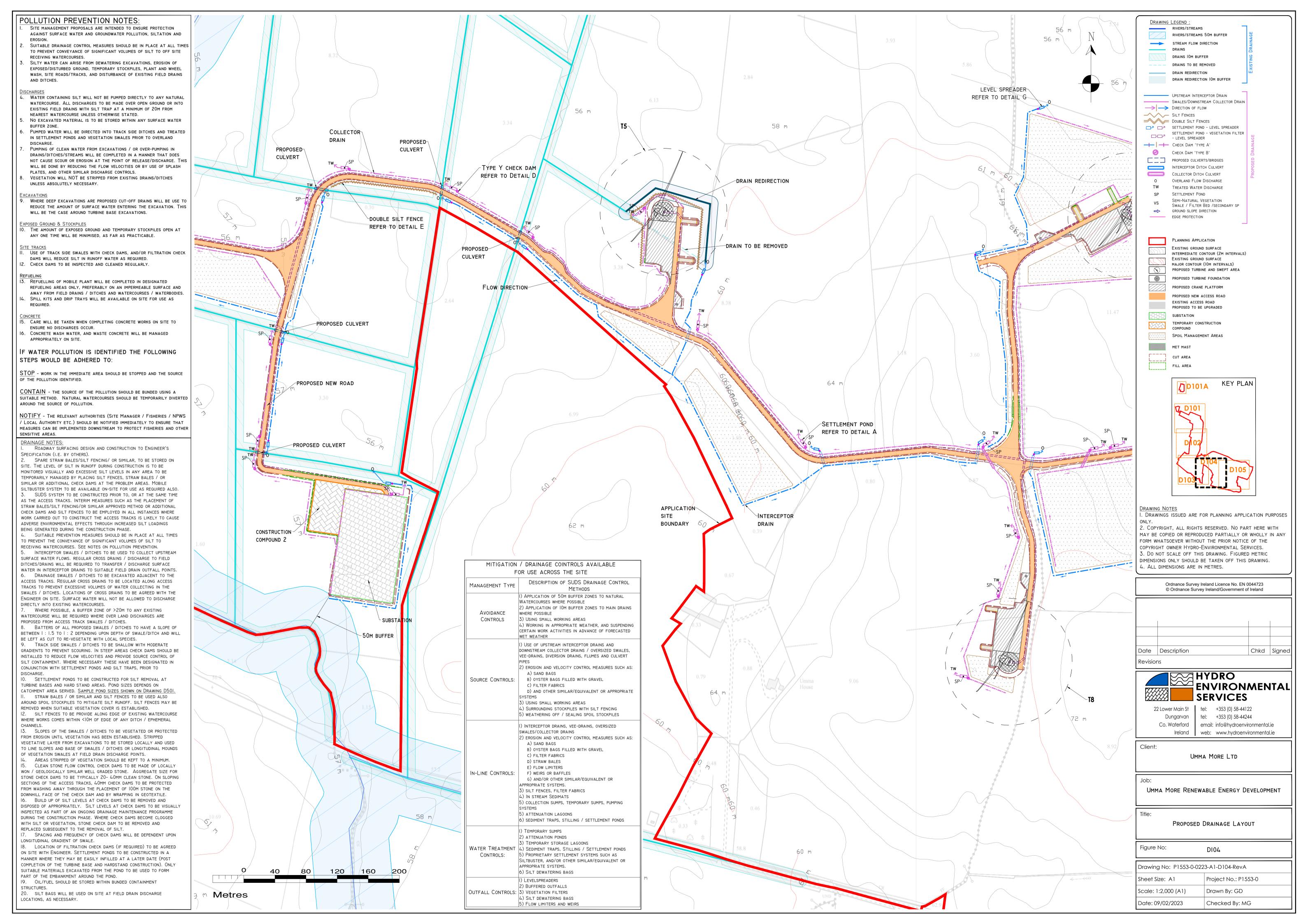
33kV Cable - Off Road Trench Detail - Cross Section

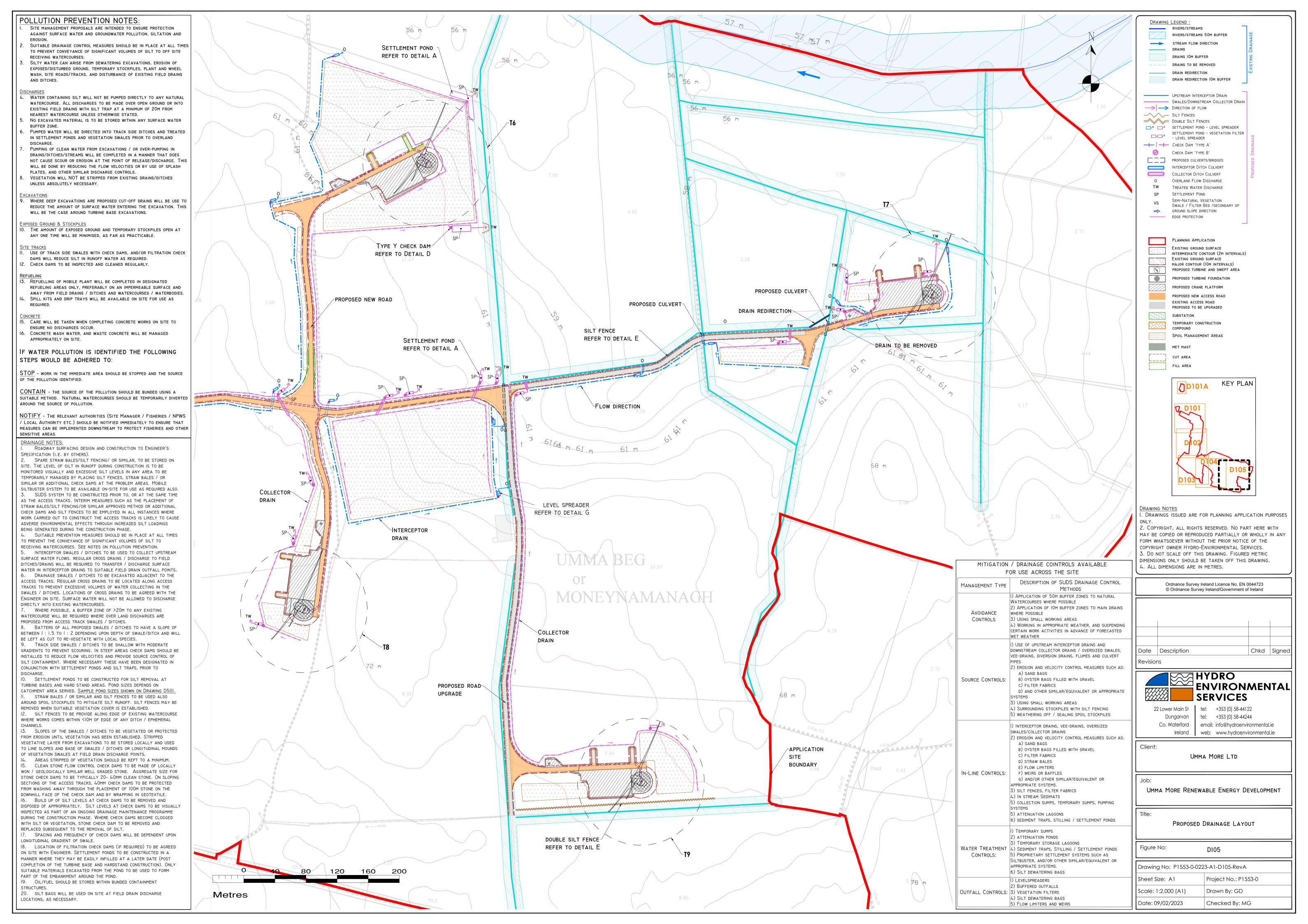












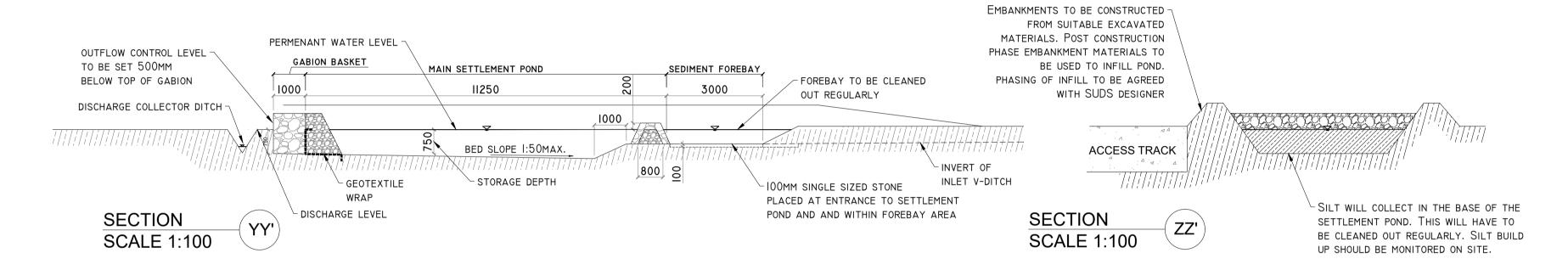
#### ┌ GEOTEXTILE WRAP EMBEDDED INTO EMBANKMENT TO PREVENT PREFERENTIAL FLOW ALONG EDGE OF GABION BASKET FINITIAL STILLING CHECK DAM - 20-40MM FILTRATION CONSTRUCTED FROM ACCESS TRACK STONE PLACED PRIOR 20-40MM CLEAN STONE CORE WITH TO GABIONS 200MM COVER OF 100MM SINGLE SIZE STONE 10000 - DIVERT ROADSIDE DITCH INTO SETTLEMENT POND YY' OVERFLOW DISCHARGE TO COLLECTOR DITCH EXTEND BOUNDARY BERMS TO PREVENT OVERFLOW SWALE TO BE WIDENED AT ENTRY TO POND

ZZ'

# DETAIL AI

	POND SIZE W [M] X L [M] X D [M]			CATCHMENT SIZE (M2)		
	RETURN PERIOD	10 YRS	STORM DURATION	500	1000	2000
	6HR RETENTION FOR COARSE SILT  IIHR RETENTION FOR MEDIUM SILT		6 HRS	1.0 x 3.5 x l m	1.25x 3.75 x l m	2.0 x 6.25 x l m
			II HRS	1.5 x 4.5 x l m	2.0 x 6.0 x l m	2.75x 8.25x I M
	24HR RETENTION	N FOR FINE SILT	24 HRS	2.25x 6.75x I M	3.0 x 9.0 x l m	4.0 x I3.0 x I M

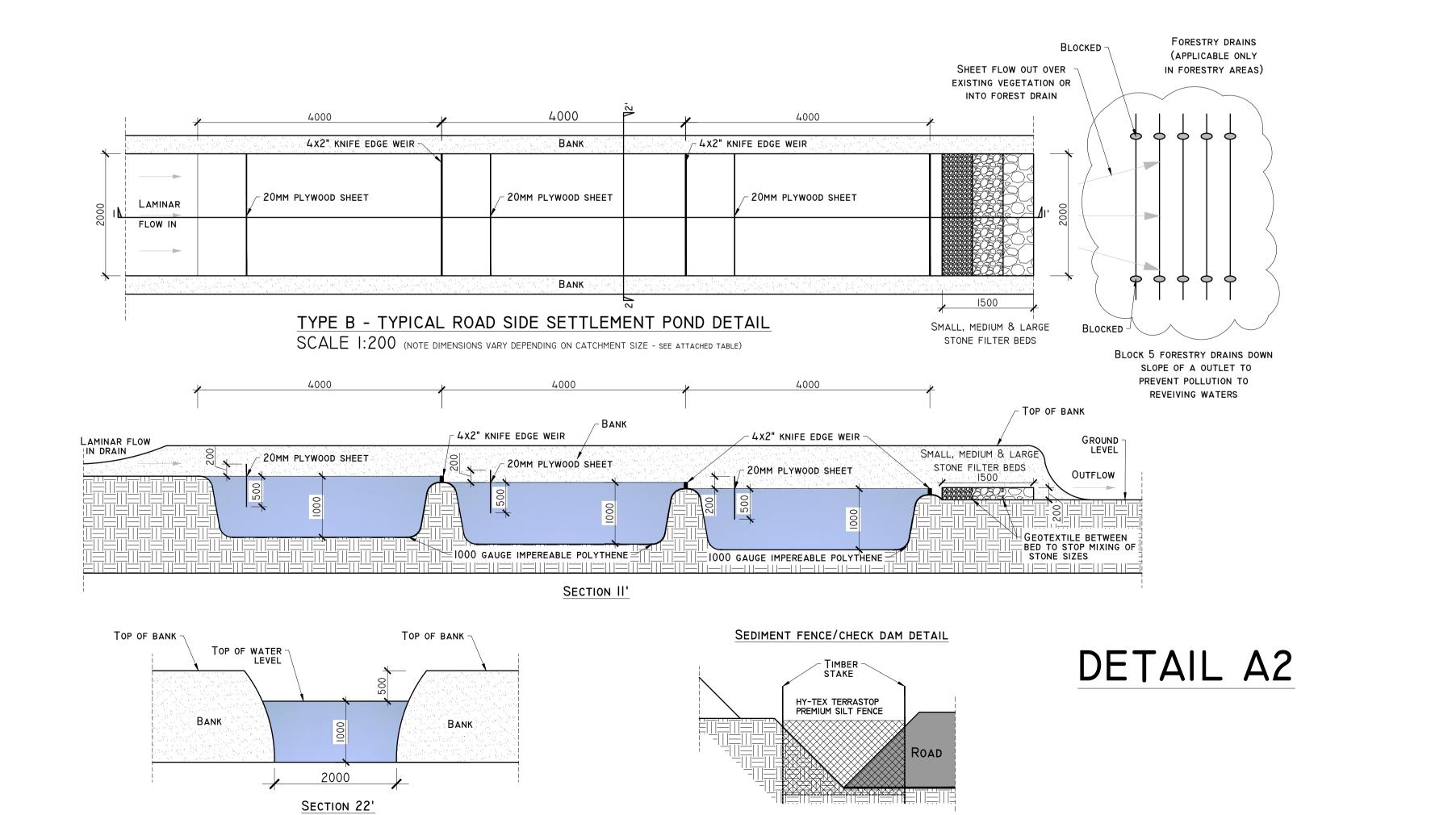
TYPE A - TYPICAL ROAD SIDE SETTLEMENT POND DETAIL SCALE 1:200 (NOTE DIMENSIONS VARY DEPENDING ON CATCHMENT SIZE - SEE ATTACHED TABLE)

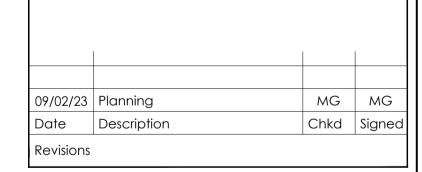


LI00MM SINGLE SIZED STONE

AND AND WITHIN FOREBAY AREA

PLACED AT ENTRANCE TO SETTLEMENT POND





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Client:

UMMA MORE LTD

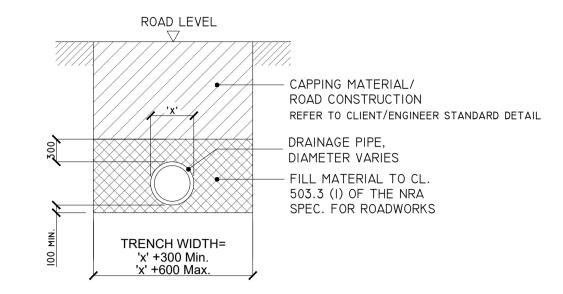
UMMA MORE RENEWABLE ENERGY DEVELOPMENT

DRAINAGE DETAILS I

Figure No: D50I

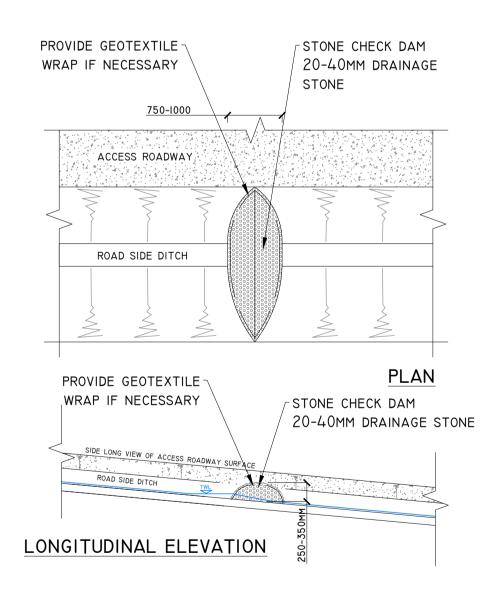
Drawing No: P1553-0-0223-A1-D501-RevA		
Sheet Size: A1	Project No.: P1553-0	
Scale: as shown (A1)	Drawn By: MG/GD	
Date: 09/02/2023	Checked By: M.G.	

### DETAIL B



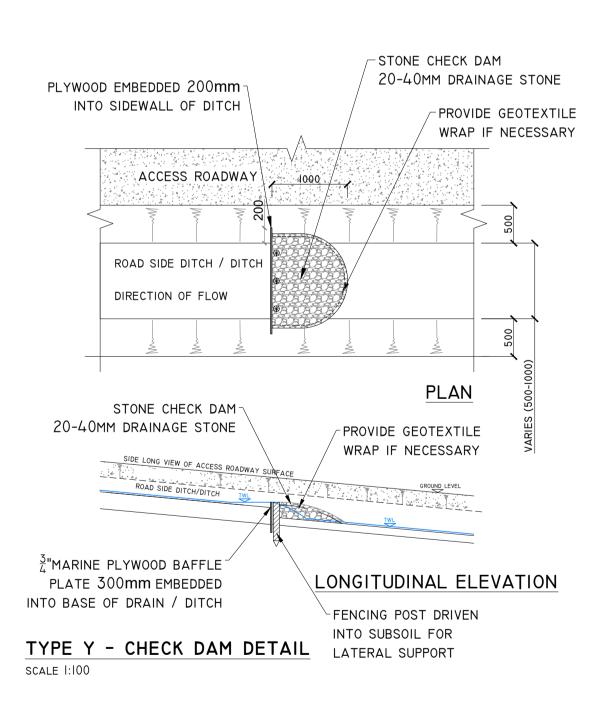
'TYPE B' CULVERT - DRAINAGE CROSSING BENEATH EXCAVATED ROAD

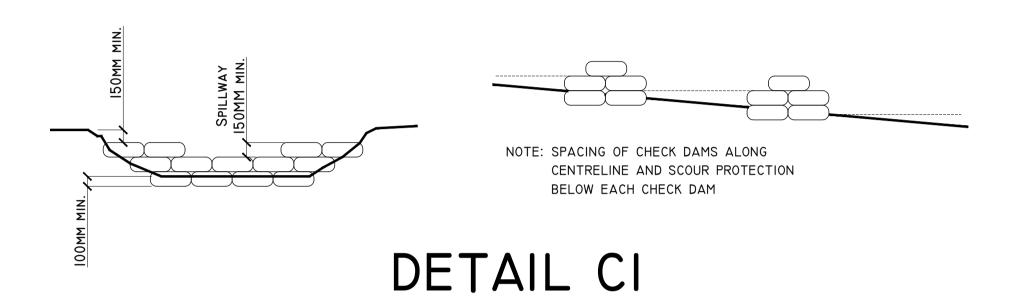
#### DETAIL C

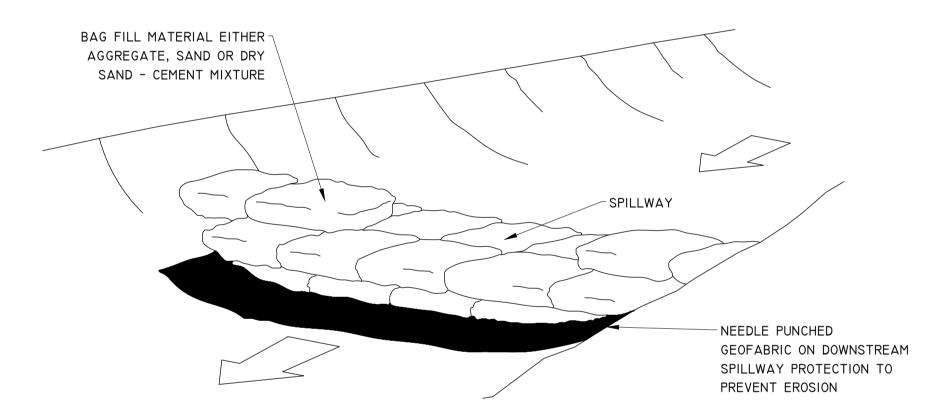


TYPE X - CHECK DAM DETAIL

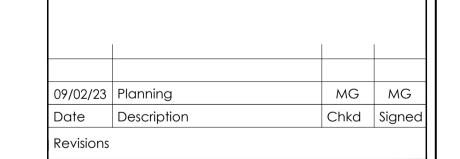
### DETAIL D







TEMPORARY CHECK DAM / SETTLEMENT POND OVERFLOW SAND FILLED BAG CONSTRUCTION SCHEMATIC - NOT TO SCALE



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tel: +353 (0) 58-44244
email: info@hydroenvironmental.ie Ireland web: www.hydroenvironmental.ie

Client:

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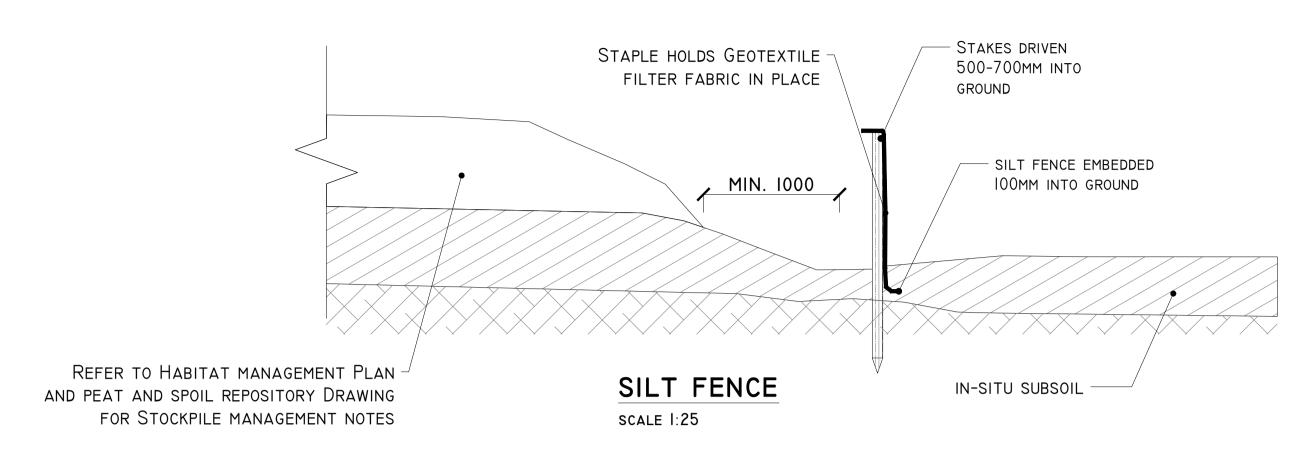
UMMA MORE RENEWABLE ENERGY DEVELOPMENT

DRAINAGE DETAILS 2

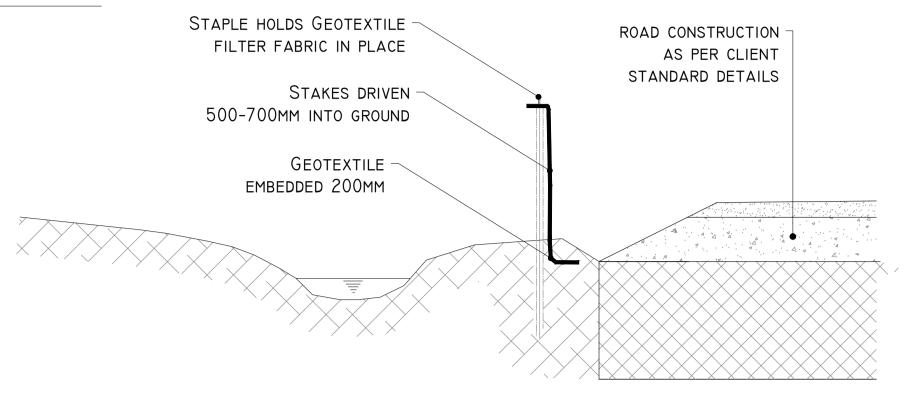
Figure No: D502

Drawing No: P1553-0-0223-A1-D502-RevA Project No.: P1553-0 Sheet Size: A1 Scale: as shown (A1) Drawn By: MG/GD Checked By: M.G. Date: 09/02/2023

## DETAIL EI

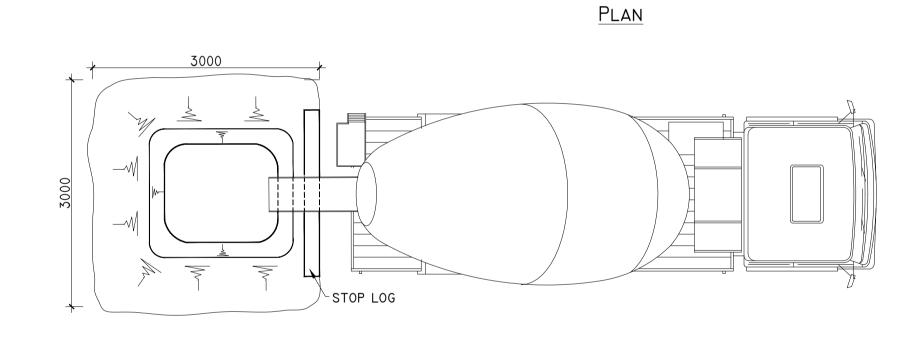


#### DETAIL E2

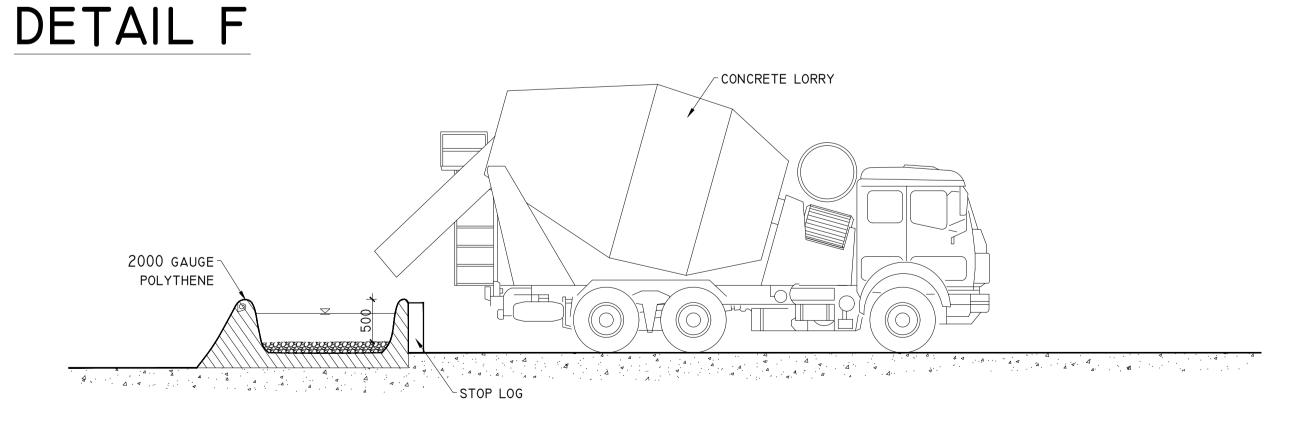


SILT FENCE FOR WATERCOURSE PROTECTION SCALE 1:25

#### TEMPORARY CONCRETE WASH OUT PIT



#### ELEVATION



#### DETAIL GI LEVEL SPREADER DETAIL SCHEMATIC - NOT TO SCALE CLEAN WATER CLEAN WATER OVERFLOW AREA SPREADER LIP (PLYWOOD SHEET) SECTION AA' OVERFLOW AREA

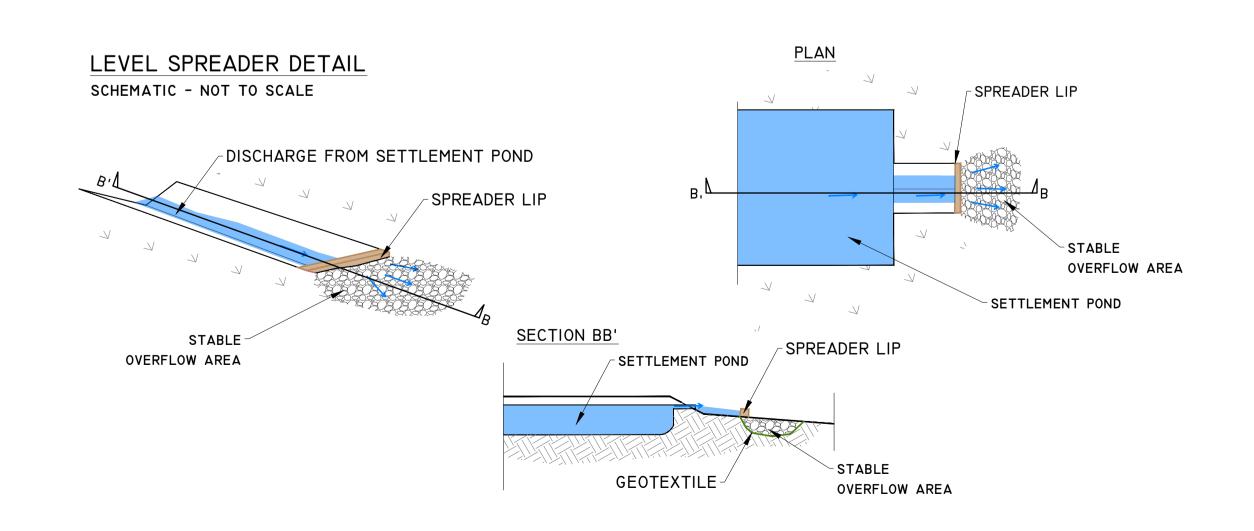
SPREADER LIP

STABLE

OVEDELOW ADEA

GEOTEXTILE -

# DETAIL G2



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09/02/23	Planning	MG	MG
Date	Description	Chkd	Signed
Revisions			



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Client: UMMA MORE LTD

UMMA MORE RENEWABLE ENERGY DEVELOPMENT

DRAINAGE DETAILS 3

Figure No: D503 Drawing No: P1553-0-0223-A1-D503-RevA Project No.: P1553-0 Sheet Size: A1 Scale: as shown (A1) Drawn By: MG/GD

Checked By: M.G.

Date: 09/02/2023