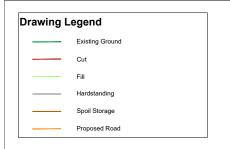


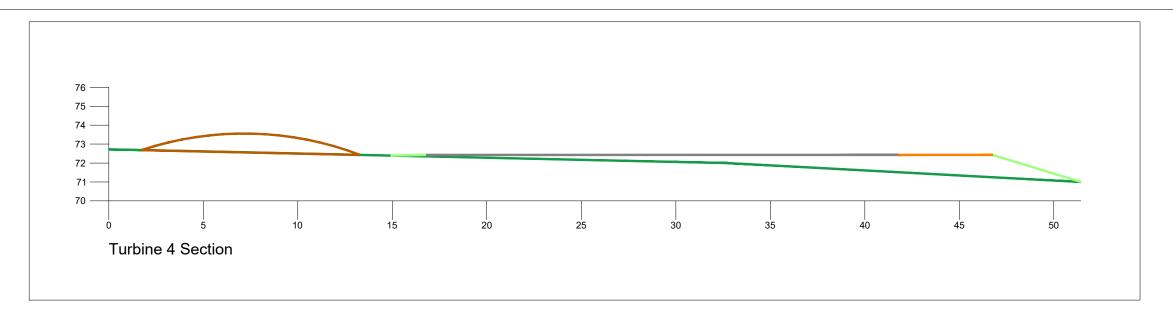
Turbine 1, 2 & 3 Spoil Storage Sections

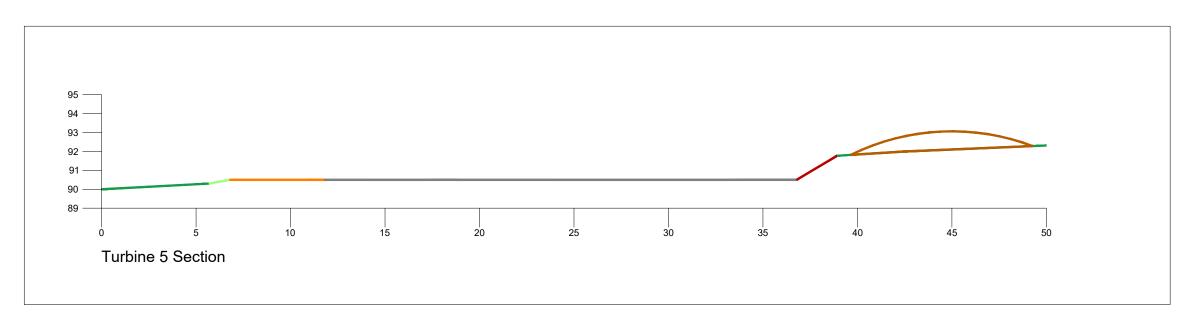
Seven Hills Wind Farm, Co. Roscommon

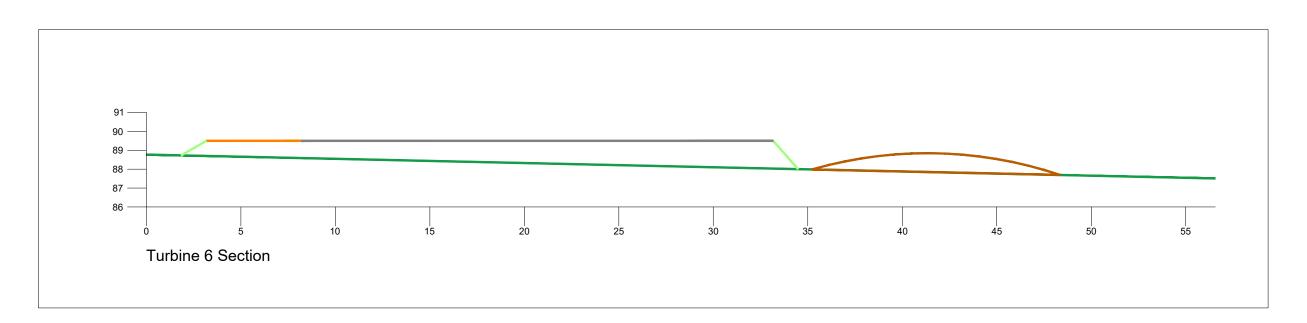
Joseph O Brien	Meabhann Crowe
PROJECT No.: 190907	DRAWING No.: 190907 - 49
1:200 @ A3	03.06.2022
	-







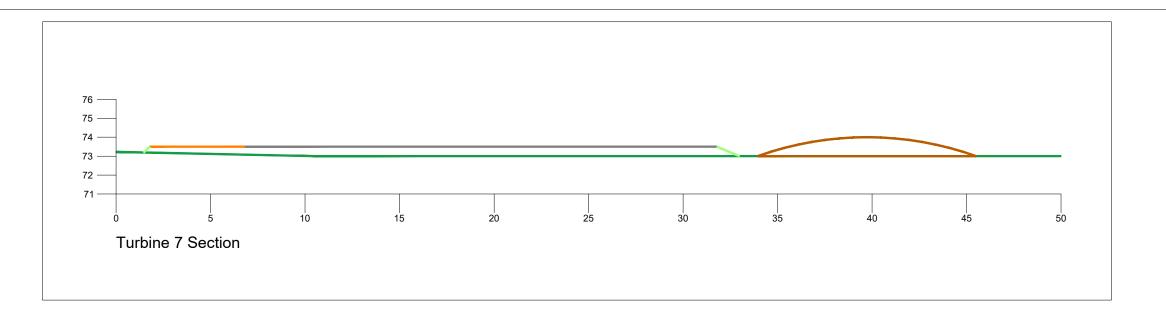


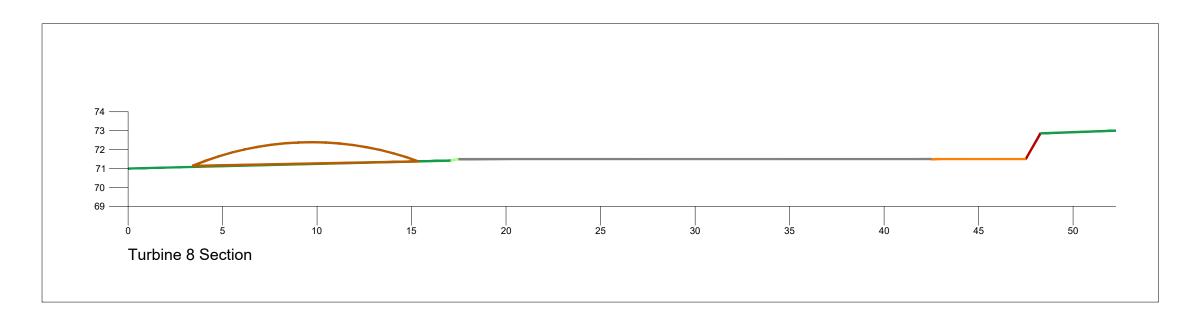


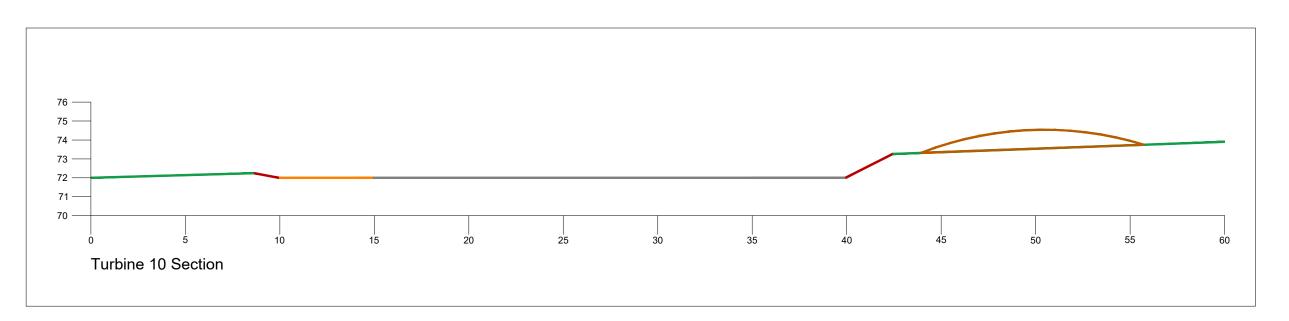
Turbine 4, 5, & 6 Spoil Storage Sections











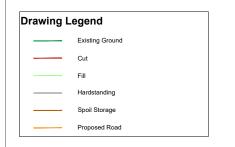
Turbine 7, 8, & 10 Spoil Storage Sections

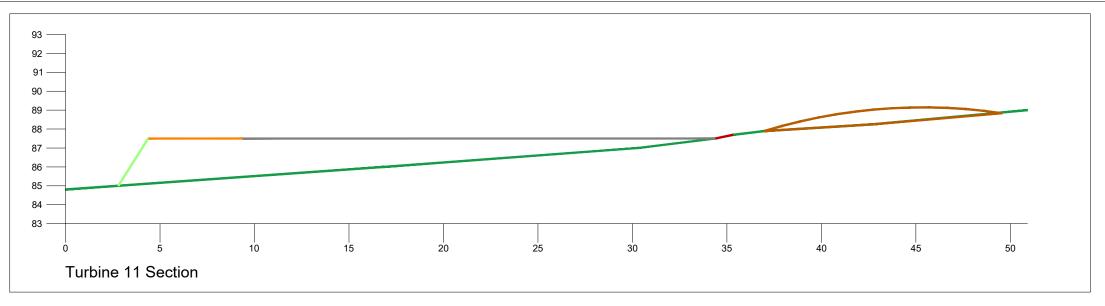
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Co. Roscommon

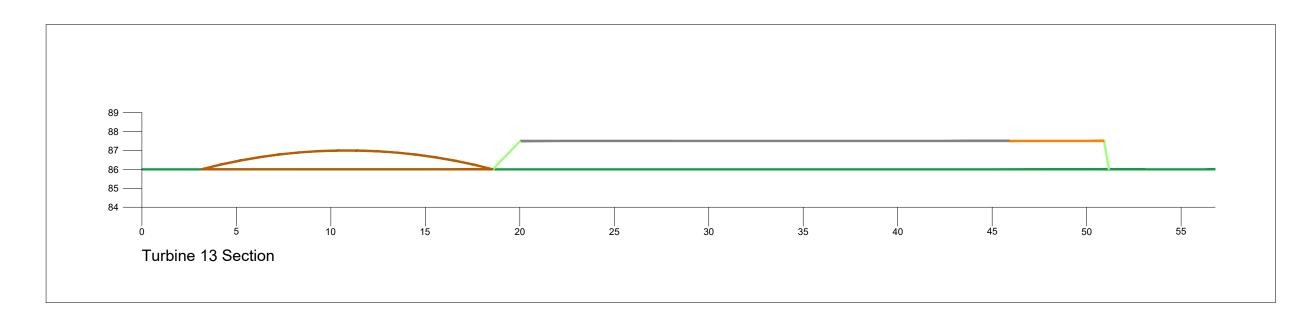
DRAWING BY.
JOSeph O Brien

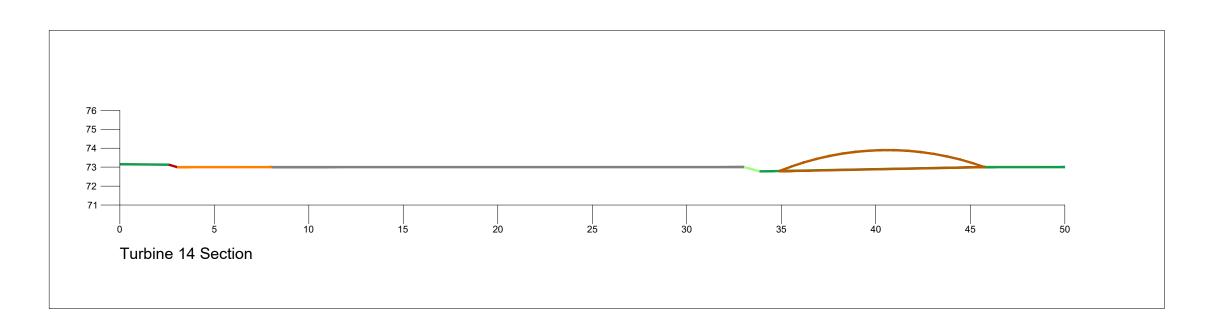
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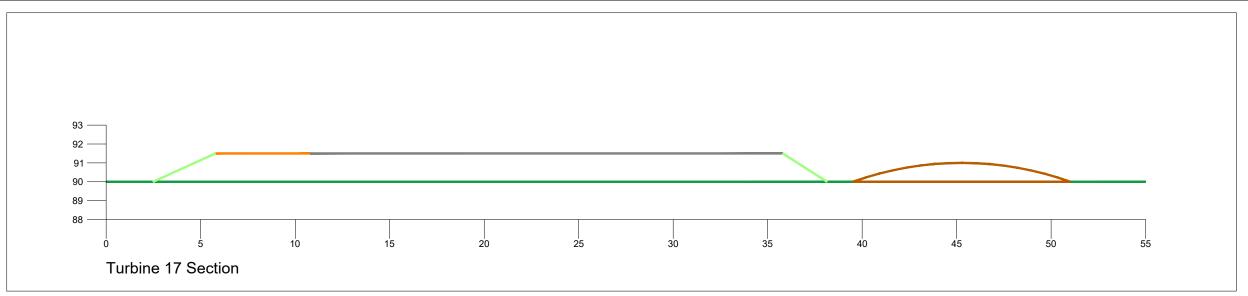
Turbine 11, 13, & 14 Spoil Storage Sections

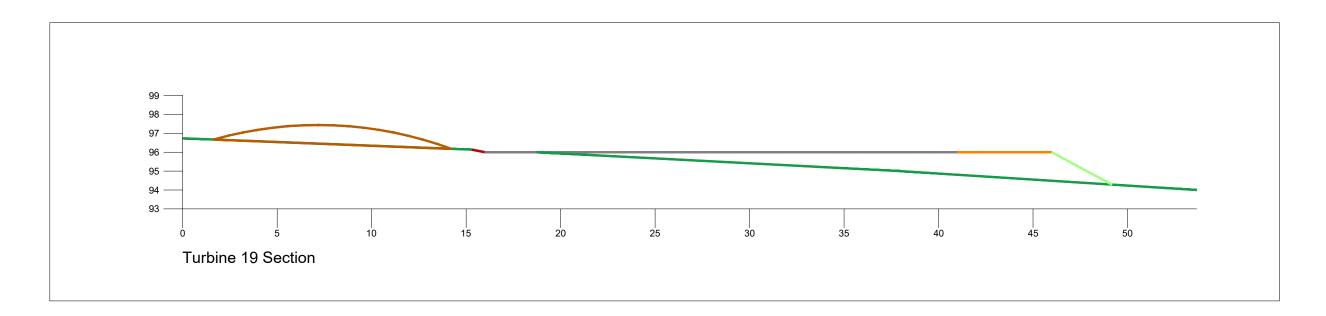
Seven Hills Wind Farm,
Co. Roscommon

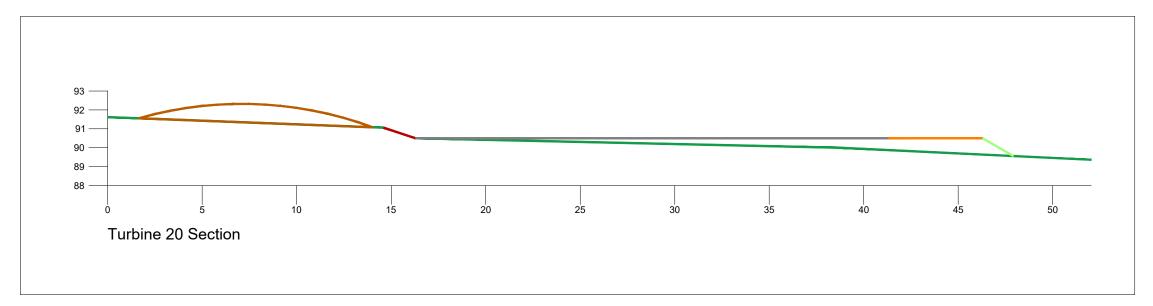
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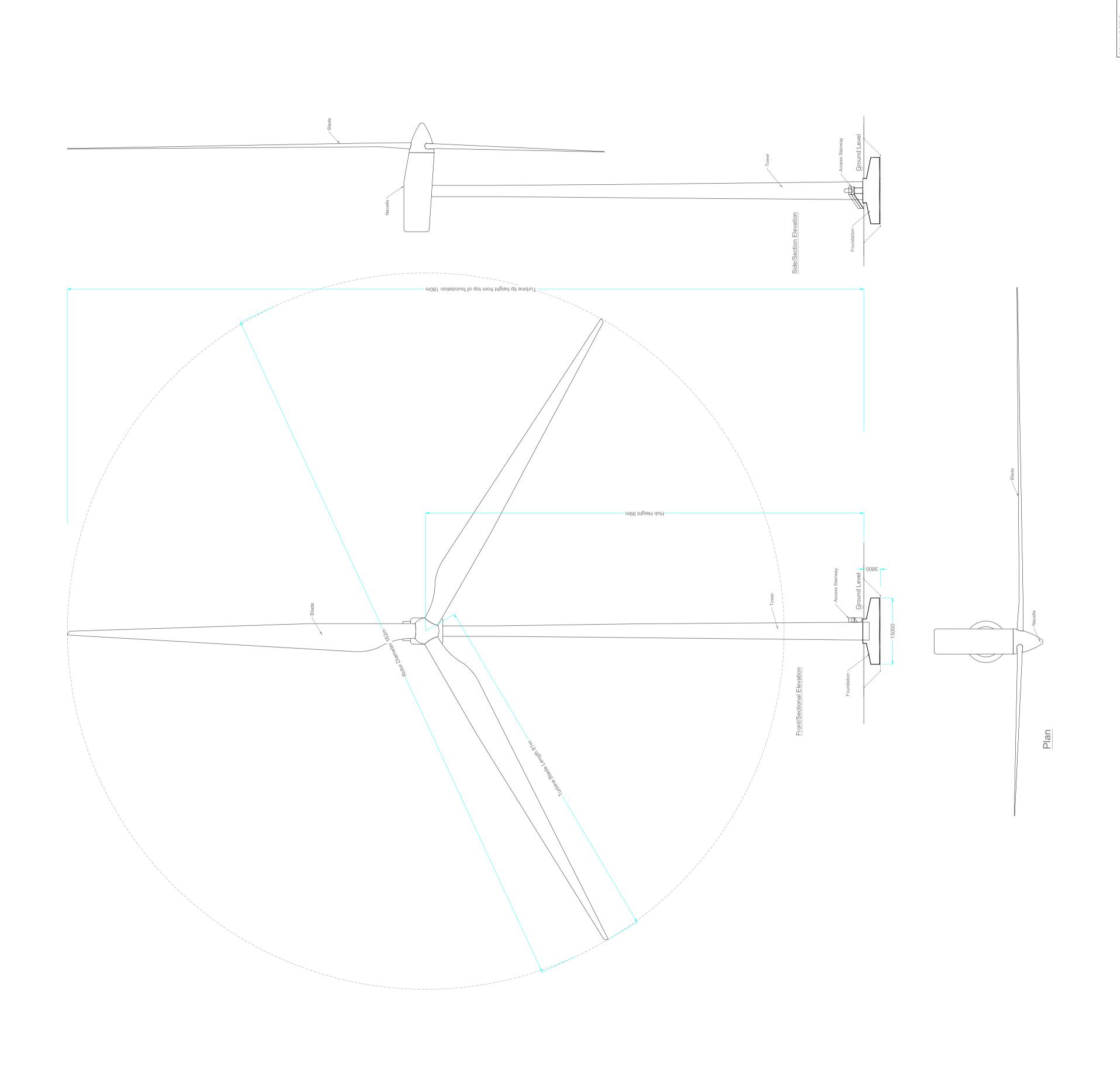




Turbine 17, 19, & 20 Spoil Storage Sections

Seven Hills Wind Farm,
Co. Roscommon





Wind Turbine
Elevations & Plan

ROJECTITLE:
Seven Hills Wind Farm, Co.
ROSCOMMON
RAWING BY:
Joseph O Brien
ROJECT NO.:
JOSEPH O Brien
1:500 @ A1

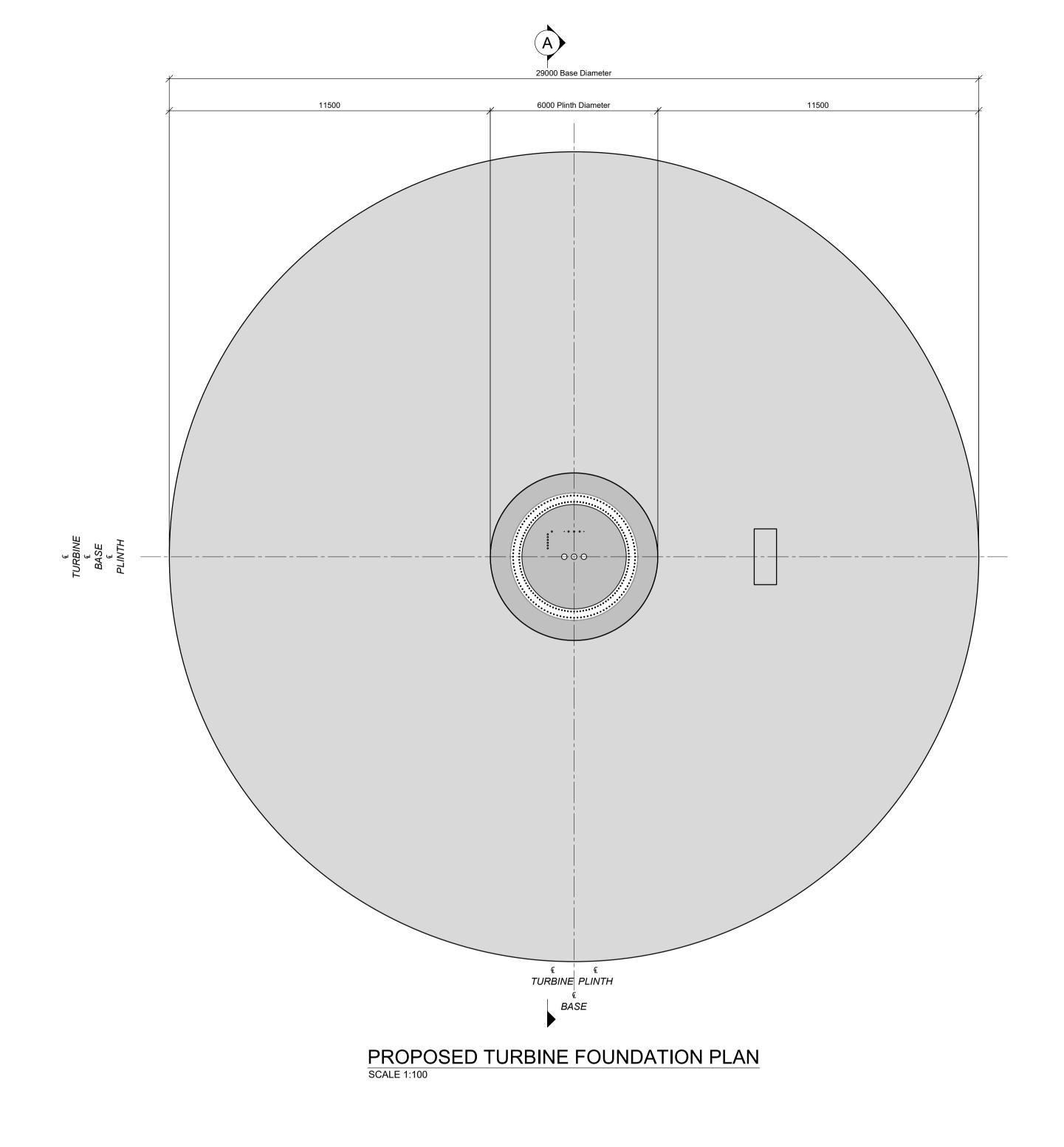
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1:500 @ A1

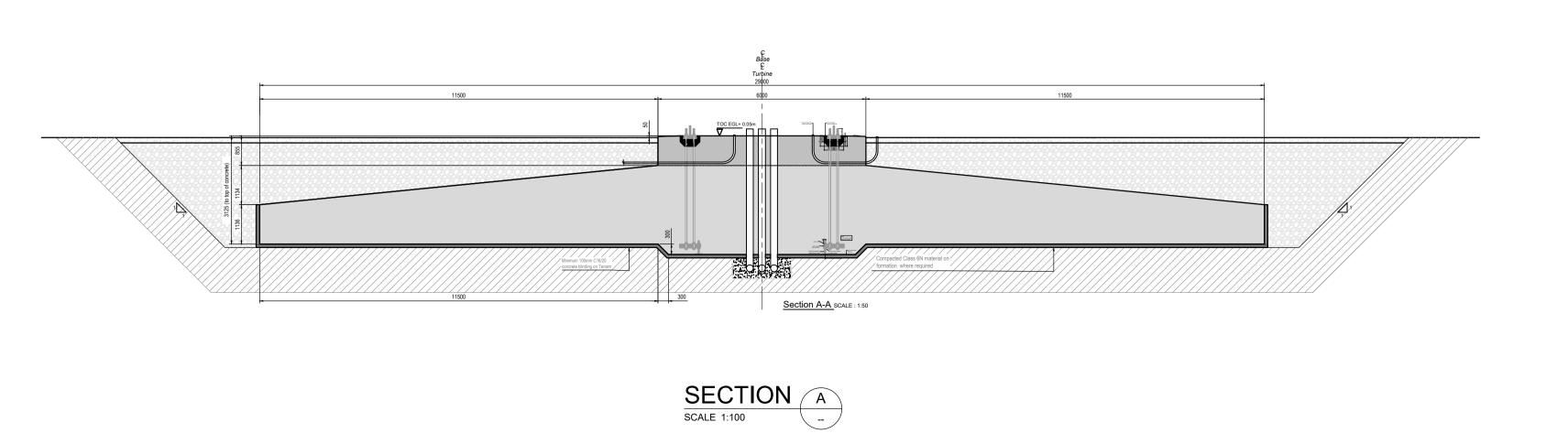
OBATE:
1:500 @ A1

PATE:
1:500 @ A1

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Drawing Notes
1. Proposed wind turbines to have a maximum ground to blade tip height of 180.
2. Exact make and model of the turbine to be dictated by a competitive tender process.
3. Installed wind turbine not to exceed maximum size envelope set out above in any blade length and hub-height configuration.





DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS IN ALL CASES.
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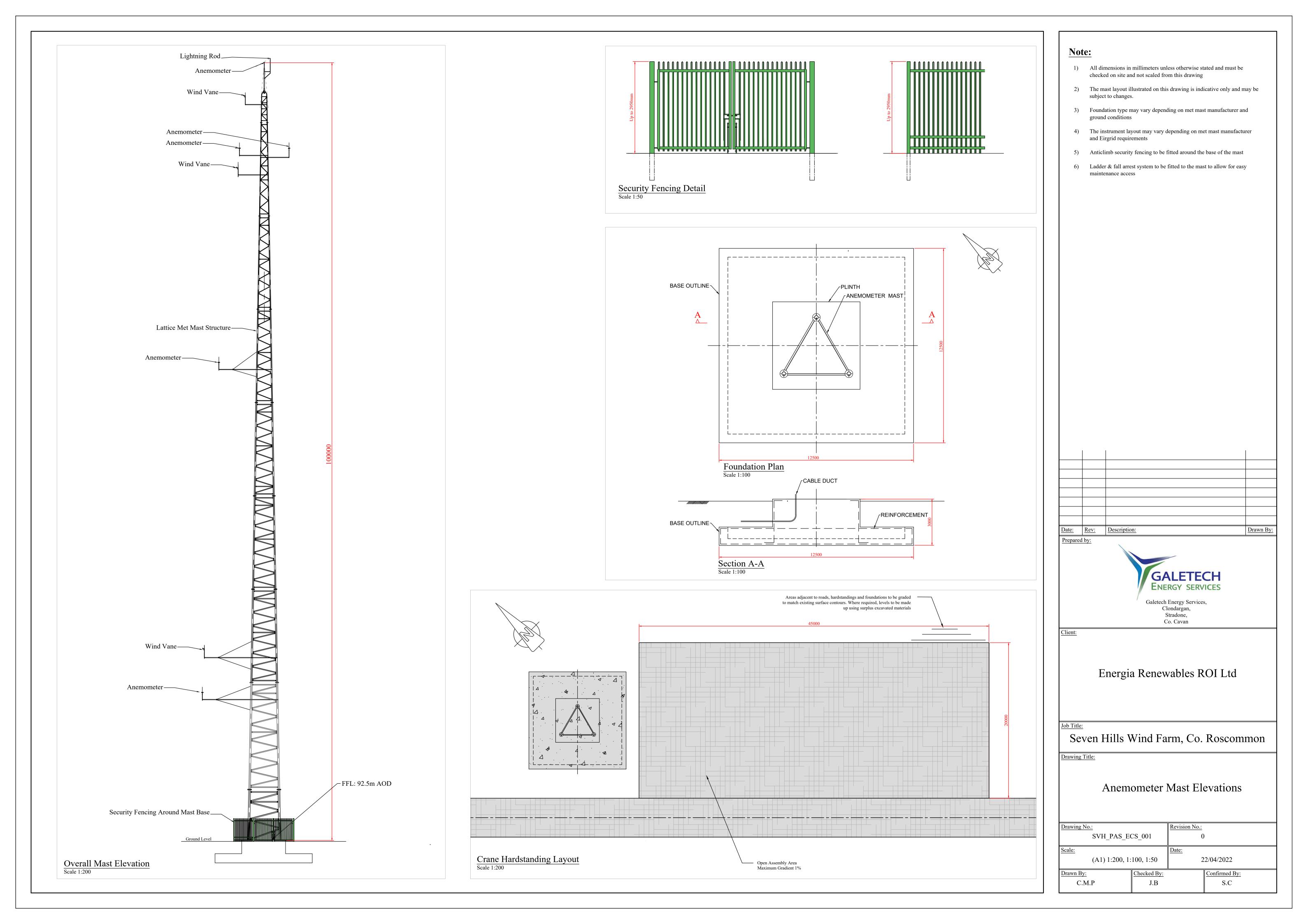
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NOTES:

P01 30/03/22 FOR INFORMATION
REV DATE SEVEN HILLS WIND FARM GROUND BEARING FOUNDATIONS energia Switched on Engineering and Environmental Consultants The Elm Suite,
Loughmore Centre,
Raheen Business Park,
Limerick,
V94 R578 CHECKED: BS SCALE @ A1: 1:10, 25 & 100 DATE: 30/03/22 PROJECT NUMBER: 21337 DRAWING STATUS: S0

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-0104

P01





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(ITM) AND IN METERS. 4. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE

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6. ALL DIMENSIONS ARE IN **METERS**, UNLESS NOTED OTHERWISE.

SITE BOUNDARY

—— —— EXISTING GROUND PROFILE

PROPOSED SPOIL STORAGE PROFILE

DESCRIPTION SEVEN HILLS WIND FARM SPOIL STORAGE SECTIONS - NORTH



Malachy Walsh and Partners Engineering and Environmental Consultants

The Elm Suite,
Loughmore Centre,
Raheen Business Park,
Limerick,
V94 R578

APPROVED: BS CHECKED: BS SCALE @ A1: AS NOTED

DRAWING STATUS: S0

21337

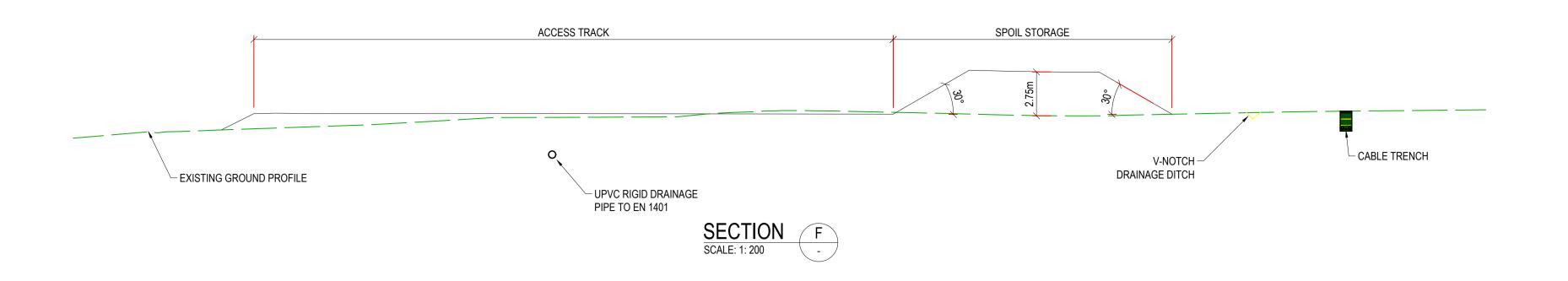
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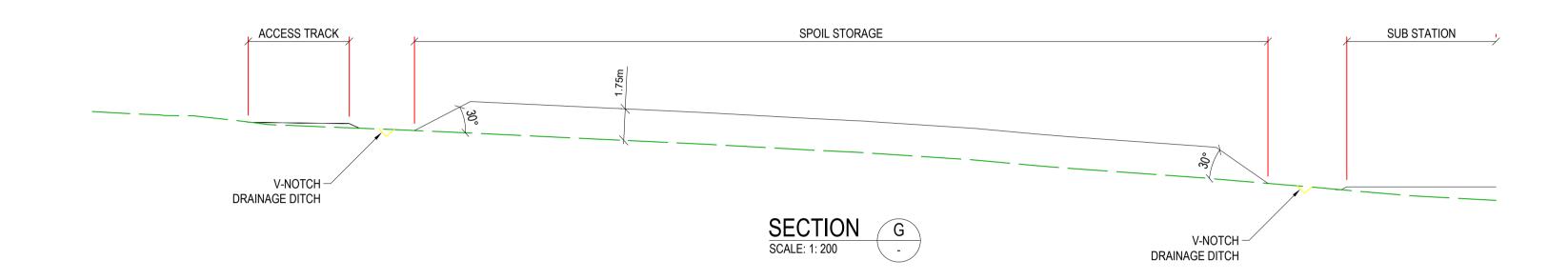


P01 15/04/22 FOR INFORMATION
REV DATE DESCRIPTION SEVEN HILLS WIND FARM SPOIL STORAGE SECTIONS - SOUTH SHEET 1 of 2 Malachy Walsh and Partners Engineering and Environmental Consultants The Elm Suite, Loughmore Centre, Raheen Business Park, Limerick, Loughmore (
Raheen Bus
Limerick,
V94 R578 CHECKED: BS APPROVED: BS SCALE @ A1: AS NOTED DATE: 15/04/22 DRAWING STATUS: S0 21337 DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-1401 P01

SITE BOUNDARY

PROPOSED SPOIL STORAGE PROFILE





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LEGEND:

SITE BOUNDARY

—— —— EXISTING GROUND PROFILE

PROPOSED SPOIL STORAGE PROFILE

SEVEN HILLS WIND FARM

SPOIL STORAGE SECTIONS - SOUTH SHEET 2 of 2

ENT:

Malachy Walsh and Partners

Engineering and Environmental Consultants

Cork | Tralee | London | Limerick

DESCRIPTION

The Elm Suite,
Loughmore Centre,
Raheen Business Park,
Limerick,
V94 R578

P01 15/04/22 FOR INFORMATION
REV DATE

DRAWN: MW CHECKED: BS APPROVED: BS

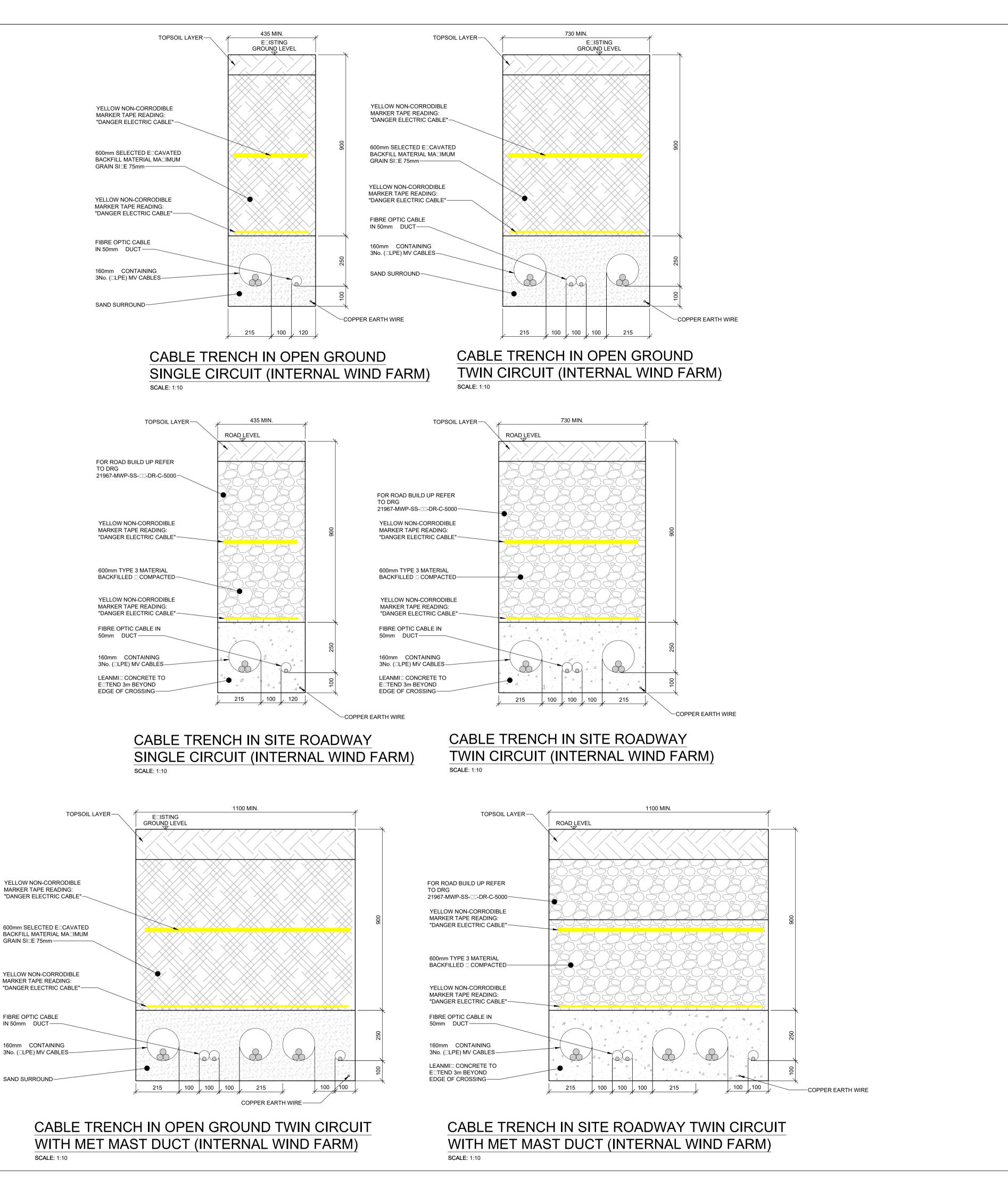
DATE: 15/04/22 SCALE @ A1: AS NOTED

PROJECT NUMBER: 21337 DRAWING STATUS: S0

PROJECT NUMBER: 21337

REV:

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-1402



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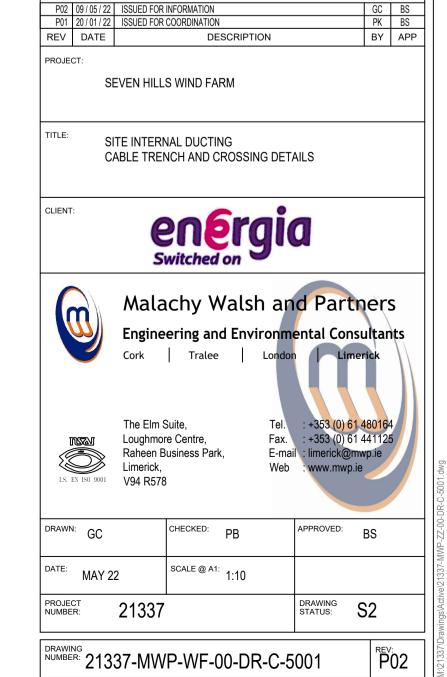
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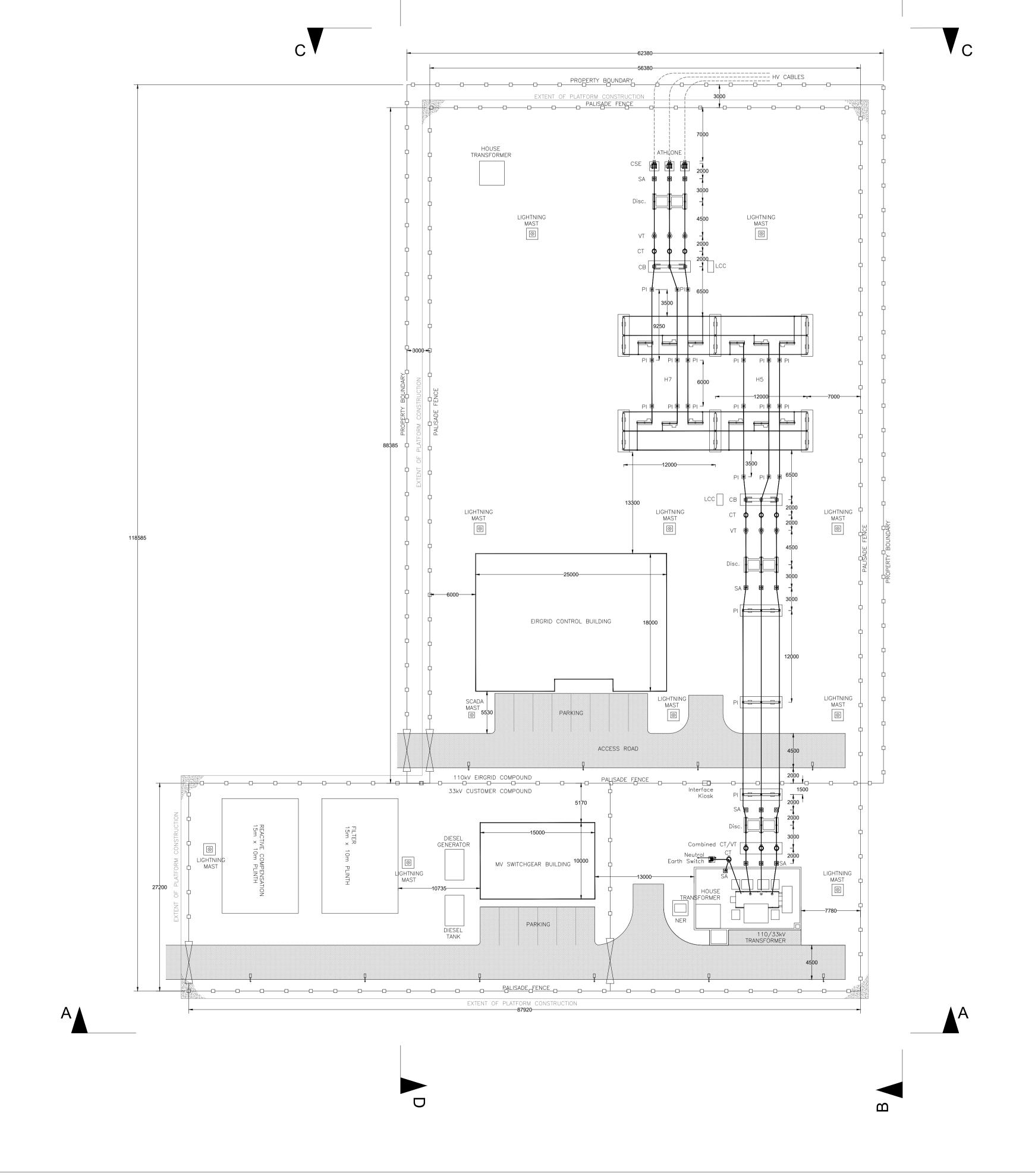
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DD414/01/01/1	
DRAWING No.	DRAWING TITLE
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21337-MWP-WF-00-DR-C-2101	DRAINAGE LAYOUT SHEET 1
21337-MWP-WF-00-DR-C-2102	DRAINAGE LAYOUT SHEET 2
21337MWP-WF-00-DR-C-2103	DRAINAGE LAYOUT SHEET 3
21337-MWP-WF-00-DR-C-2104	DRAINAGE LAYOUT SHEET 4
21337-MWP-WF-00-DR-C-2105	DRAINAGE LAYOUT SHEET 5
21337-MWP-WF-00-DR-C-2106	DRAINAGE LAYOUT SHEET 6
21337-MWP-WF-00-DR-C-2107	DRAINAGE LAYOUT SHEET 7
21337-MWP-WF-00-DR-C-2108	DRAINAGE LAYOUT SHEET 8
21337-MWP-WF-00-DR-C-2109	DRAINAGE LAYOUT SHEET 9
21337MWP-WF-00-DR-C-2110	DRAINAGE LAYOUT SHEET 10
SOU	JTH DRAINAGE
21337-MWP-WF-00-DR-C-2111	DRAINAGE LAYOUT SHEET 11
21337MWP-WF-00-DR-C-2112	DRAINAGE LAYOUT SHEET 12
21337-MWP-WF-00-DR-C-2113	DRAINAGE LAYOUT SHEET 13
21337-MWP-WF-00-DR-C-2114	DRAINAGE LAYOUT SHEET 14
21337-MWP-WF-00-DR-C-2115	DRAINAGE LAYOUT SHEET 15
21337-MWP-WF-00-DR-C-2116	DRAINAGE LAYOUT SHEET 16
21337-MWP-WF-00-DR-C-2117	DRAINAGE LAYOUT SHEET 17
21337-MWP-WF-00-DR-C-2118	DRAINAGE LAYOUT SHEET 18
21337MWP-WF-00-DR-C-2119	DRAINAGE LAYOUT SHEET 19
21337MWP-WF-00-DR-C-2120	DRAINAGE LAYOUT SHEET 20
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21337MWP-WF-00-DR-C-2122	DRAINAGE LAYOUT SHEET 22
21337MWP-WF-00-DR-C-2123	DRAINAGE LAYOUT SHEET 23
21337MWP-WF-00-DR-C-2124	DRAINAGE LAYOUT SHEET 24
21337MWP-WF-00-DR-C-2125	NORTH DRAINAGE KEYPLAN
21337MWP-WF-00-DR-C-2126	SOUTH DRAINAGE LAYOUT







Seven Hills Windfarm

CLIENT

Seven Hills Wind Ltd.

CONSULTANT

AECOM Adel hi Pla a Georges Street U er Dun Laoghaire County Du lin

T 353 (0)1 2383100 .aecom.com

LEGEND

NOTES

---- PROPOSED EQUIPMENT

BUSBAR DISCONNECTOR

POST INSULATOR (SINGLE)

CT - CURRENT TRANSFORMER

VT - VOLTAGE TRANSFORMER

POST INSULATOR (TRIPLE)

CB - CIRCUIT BREAKER

TRAFO DISCONNECTOR

🖸 SA — SURGE ARRESTER

CSE - CABLE SEALING END

LCC - LOCAL CONTROL CABINET

REFER TO DRAWING 60634578-ACM-DR-CE-002 FOR SITE ELEVATIONS.

DRAWINGS ARE INDICATIVE ONLY AND SHOULD NOT BE USED AS DETAILED FOR DESIGN

ISSUE/REVISION R9 24.01.22 REVISED TO SUIT EIRGRID SPEC R8 09.12.21 FOR PLANNING R7 08.12.21 REVISED FOLLOWING REVIEW P0 24.09.20 First Issue DESCRIPTION DATE

STATUS

FOR PLANNING

PROJECT NUMBER 60634578

SHEET TITLE

Seven Hills Windfarm 110 kV Su station Pro osed Layout

SHEET NUMBER

60634578-ACM-DR-CE-001

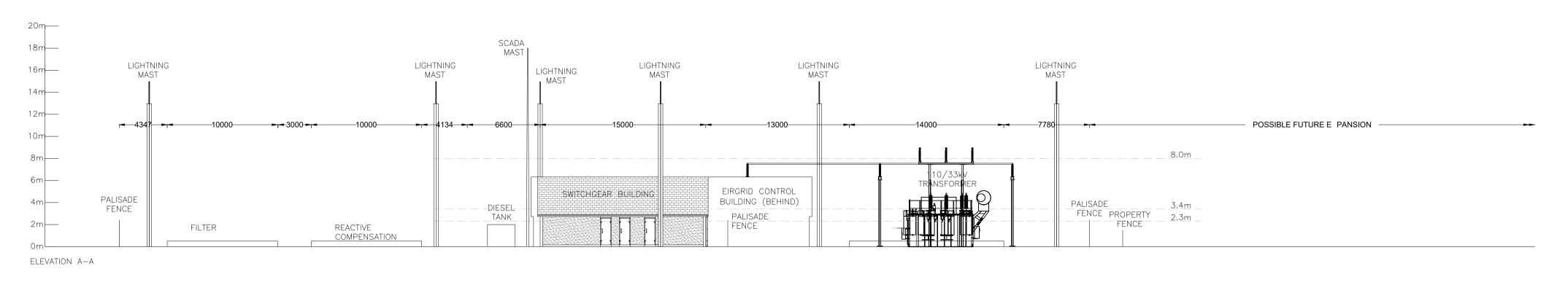
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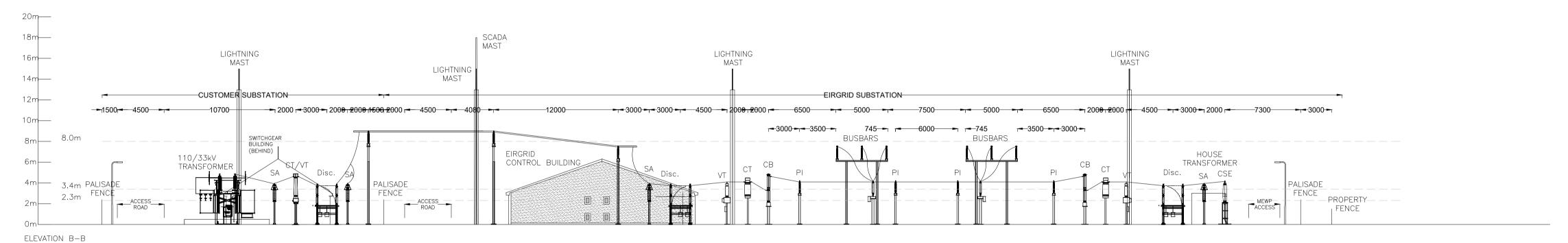
NTS

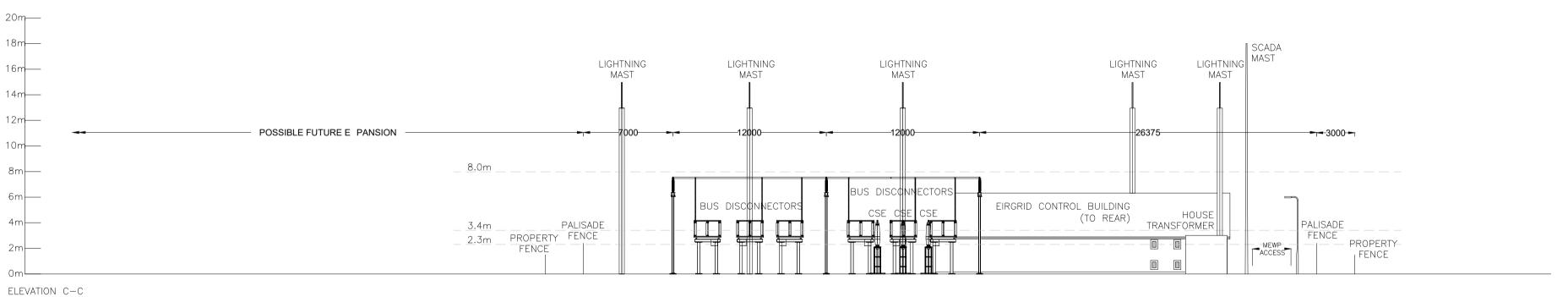
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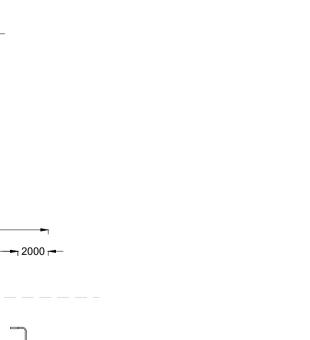
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ELEVATION D-D









NOTE: FUTURE EQUIPMENT NOT SHOWN ON ELEVATIONS

SCADA MAST LIGHTNING MAST LIGHTNING MAST LIGHTNING MAST LIGHTNING MAST -EIRGRID SUBSTATION--CUSTOMER SUBSTATION--3000 - 3500 - SWITCHGEAR BUILDING EIRGRID CONTROL BUILDING 110/33kV TRANSFORMER PALISADE FENCE PROPERTY FENCE

2m FENCE

> REFER TO DRAWING 60634578-ACM-DR-CE-001 FOR SITE LAYOUT AND LOCATION OF ELEVATIONS.

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ISSUE/REVISION				
R8	24.01.22	REVISED TO SUIT EIRGRID SPEC		
R7	08.12.21	REVISED FOLLOWING REVIEW		
R6	06.12.21	REVISED FOLLOWING REVIEW		
R5	19.07.21	REVISED FOLLOWING REVIEW		
R4	23.06.21	REVISED FOLLOWING REVIEW		
R3	16.04.21	REVISED FOLLOWING REVIEW		
R2	30.03.21	REVISED FOLLOWING REVIEW		
R1	17.03.21	REVISED FOLLOWING REVIEW		
P0	24.09.20	First Issue		
I/R	DATE	DESCRIPTION		

STATUS

FOR DISCUSSION

SCALE PROJECT NUMBER NTS 60634578

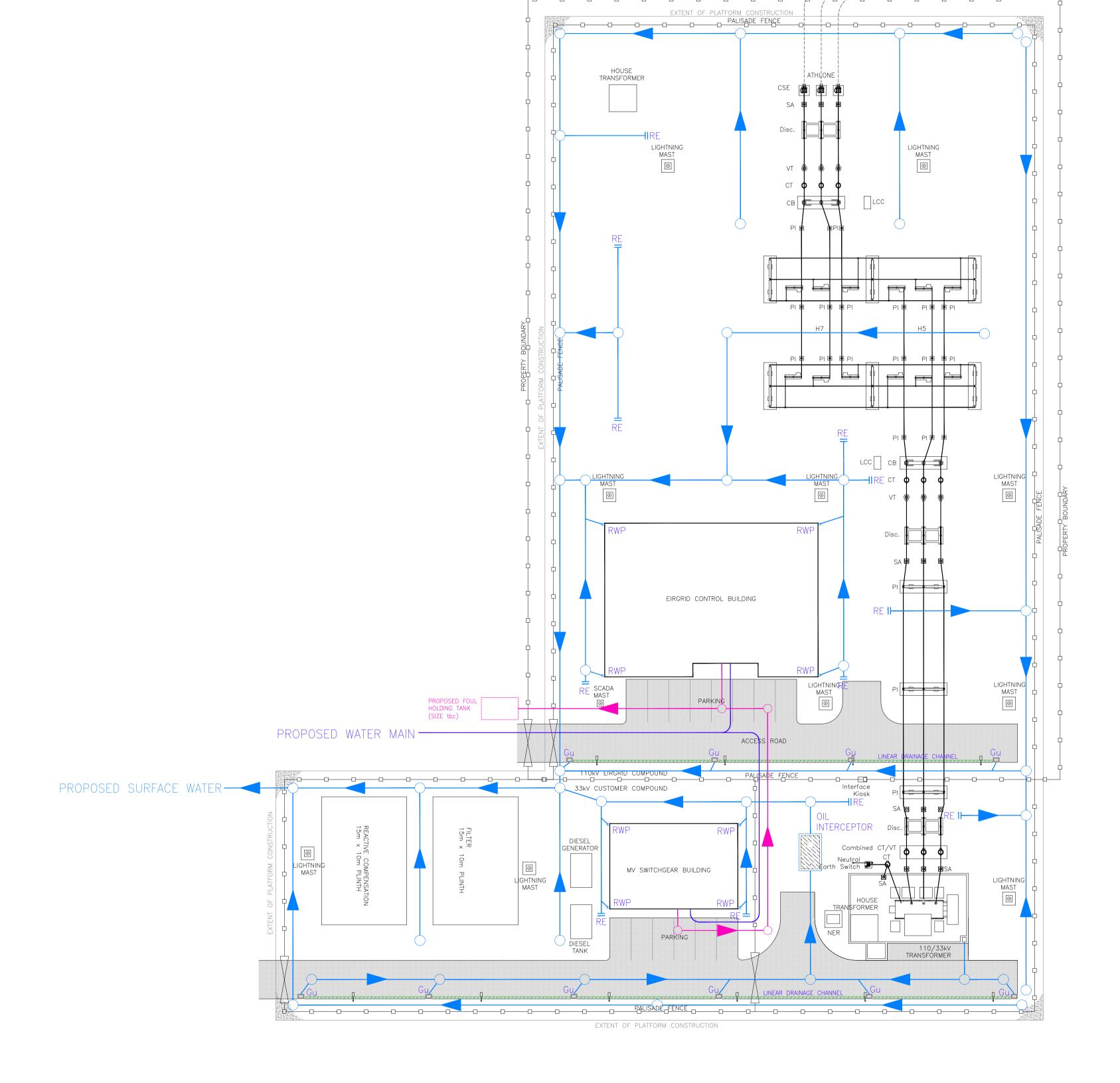
SHEET TITLE

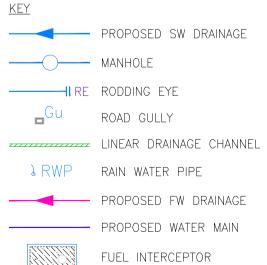
Seven Hills Windfarm 110 kV Su station Site Elevations

SHEET NUMBER

60634578-ACM-DR-CE-002

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ISSUE/REVISION		
R8	24.01.22	REVISED TO SUIT EIRGRID SPEC
R7	08.12.21	REVISED FOLLOWING REVIEW
R6	06.12.21	REVISED FOLLOWING REVIEW
R5	19.07.21	REVISED FOLLOWING REVIEW
R4	23.06.21	REVISED FOLLOWING REVIEW
R3	16.04.21	FOUL HOLDING TANK RELOCATED
R2	30.03.21	REVISED FOLLOWING REVIEW
R1	17.03.21	REVISED FOLLOWING REVIEW
P0	28.09.20	First Issue
I/R	DATE	DESCRIPTION

STATUS

FOR DISCUSSION

PROJECT NUMBER 60634578

SHEET TITLE

Seven Hills Windfarm 110kV Su station Indicative Drainage Layout

SHEET NUMBER

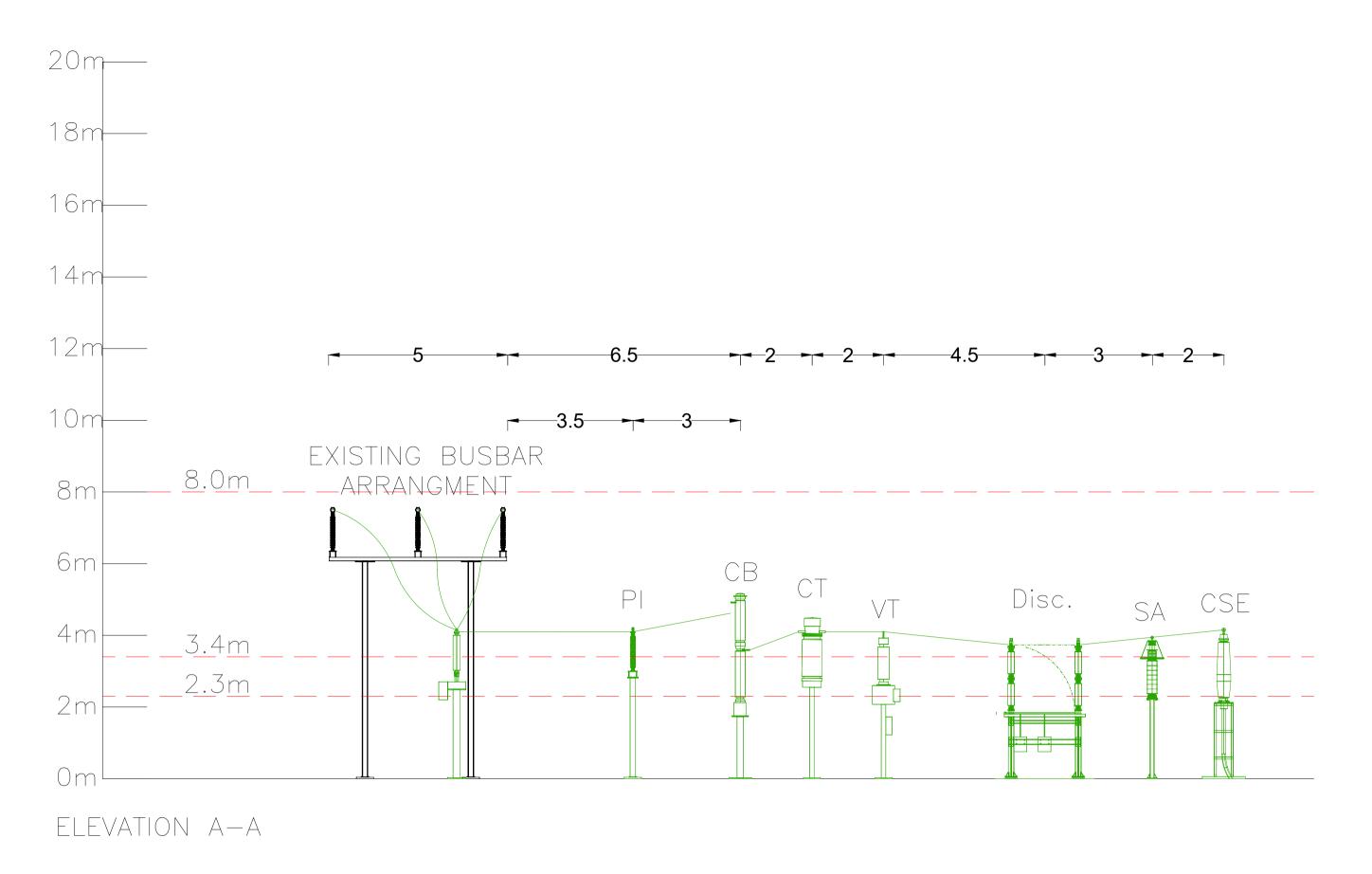
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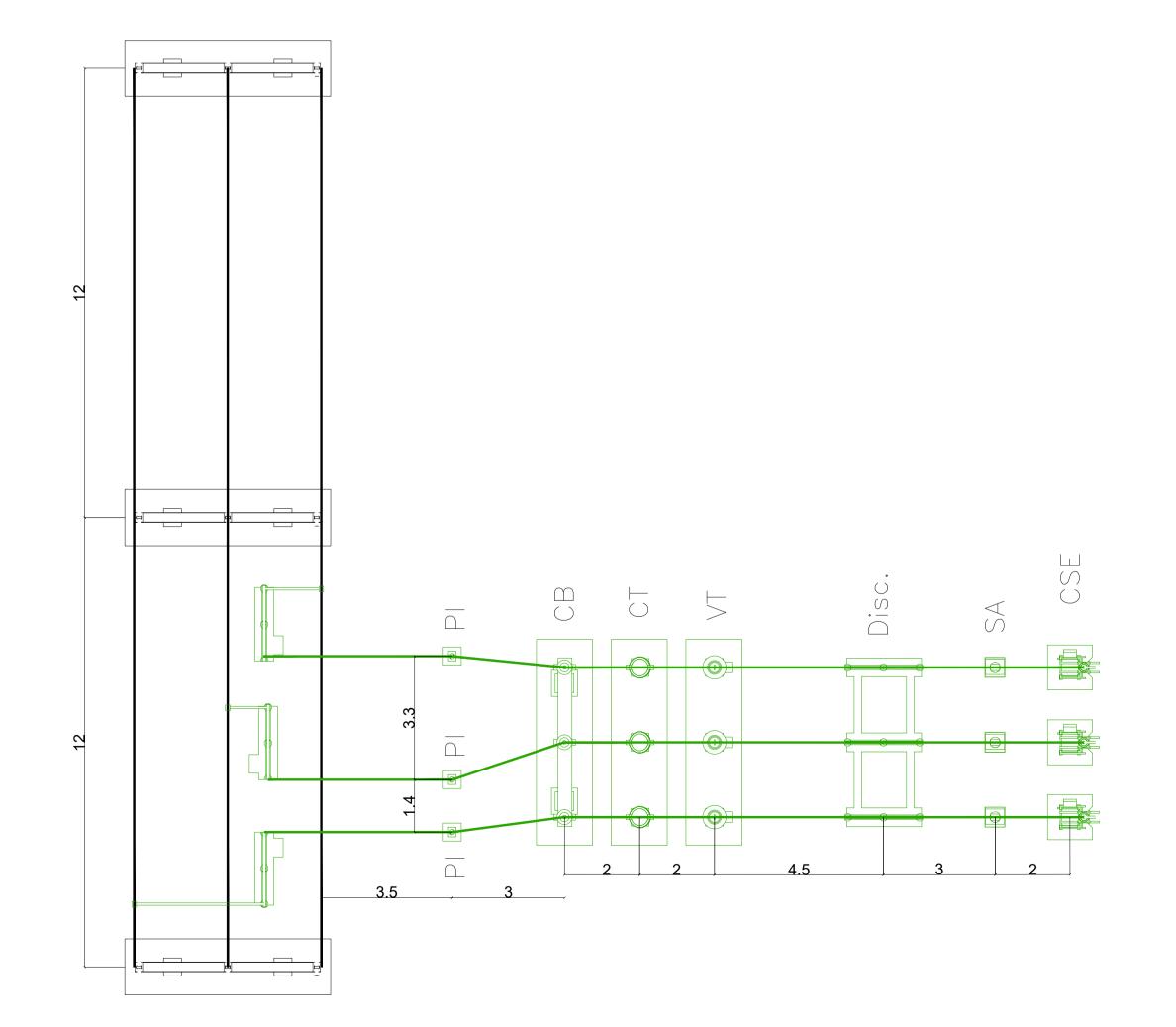
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NTS

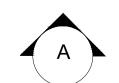


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1	Post Insulator
СВ	Circuit Breaker
CT	Current Transformer
VΤ	Voltage Transformer
DISC.	Disconnector
SA	Surge Arrester
CSE	Cable Sealing End



PROJECT

ATHLONE 110 kV SUBSTATION

CLIENT

ENERGIA

CONSULTANT

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— E ISTING E UIPMENT

----- PROPOSED E UIPMENT

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- 3. DRAWING REPRESENTS AN INDICATIVE 110 kV LINE BAY, HAS BEEN PRODUCED WITHOUT ANY DETAILED INFORMATION ON ATHLONE 110 kV STATION, AS SUCH A DETAILED SPACE PROVING EXERCISE HAS NOT BEEN CARRIED OUT.

SSUE/REVISION			
I/R	DATE	DESCRIPTION	

STATUS

FOR DISCUSSION

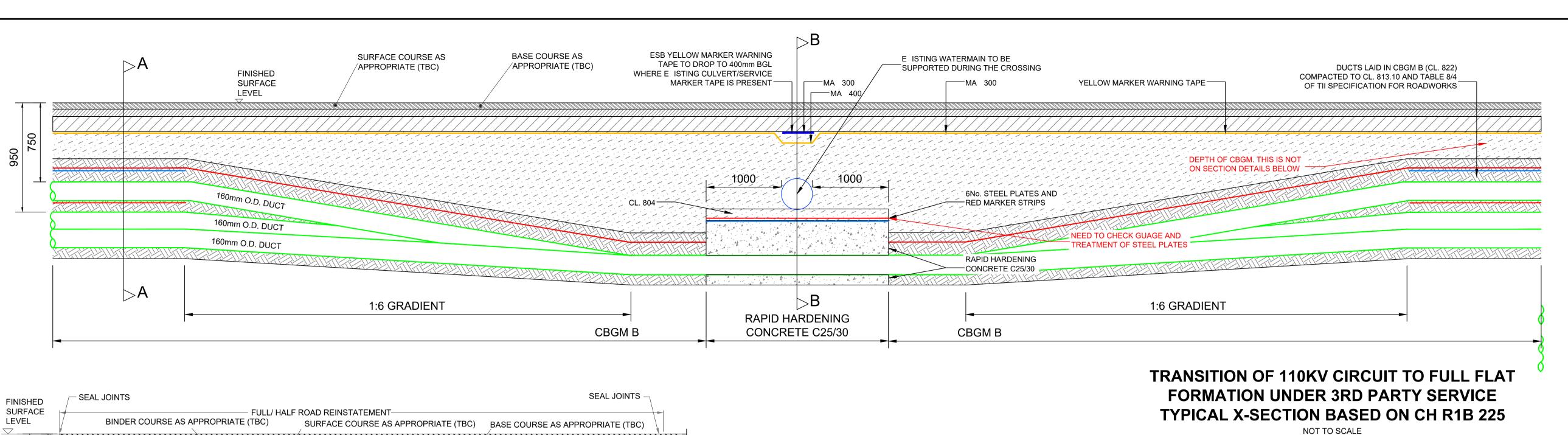
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SCALE

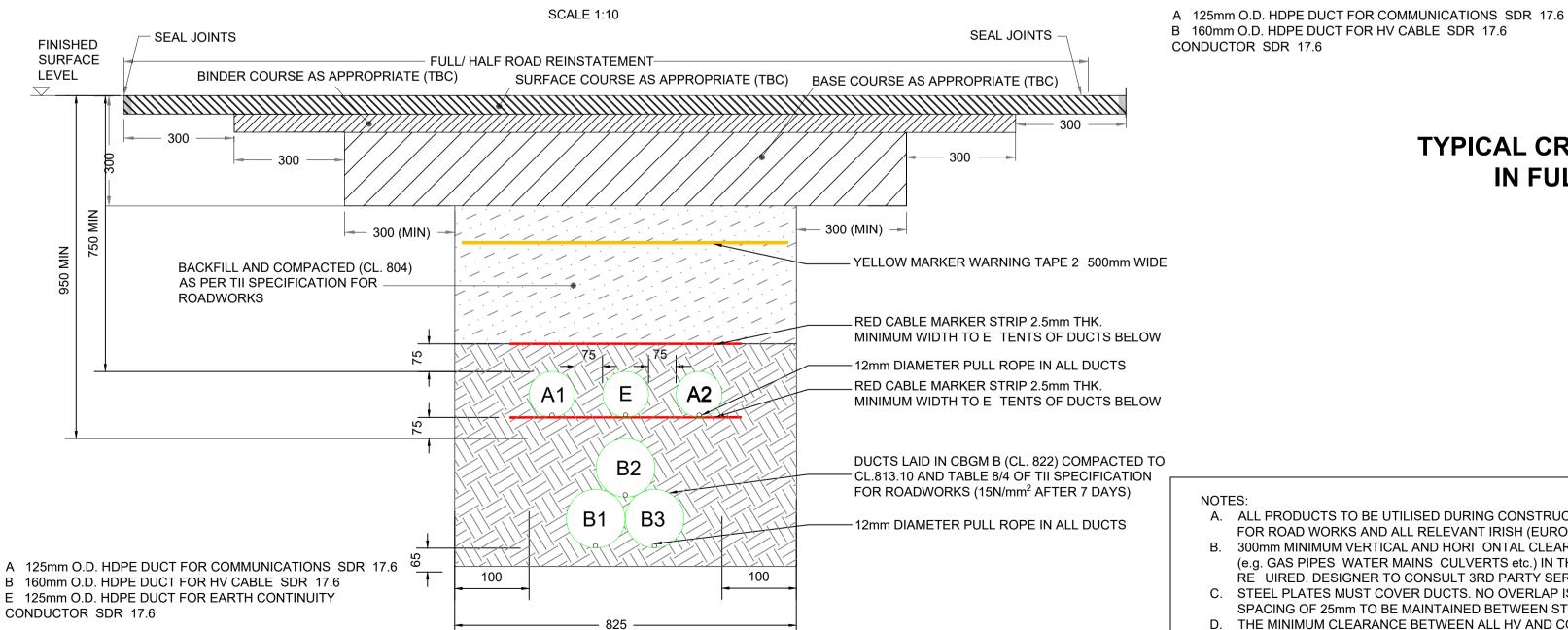
SHEET TITLE

TYPICAL CABLE CONNECTION BAY



SEAL JOINTS **FINISHED** SURFACE - FULL/ HALF ROAD REINSTATEMENT LEVEL BINDER COURSE AS APPROPRIATE (TBC) YELLOW MARKER WARNING TAPE 2 500mm WIDE BACKFILL AND COMPACTED (CL. 804) AS PER TII SPECIFICATION FOR ROADWORKS RED CABLE MARKER STRIP 2.5mm THK. MINIMUM WIDTH TO E TENTS OF DUCTS BELOW BACKFILL AND COMPACTED (CL. 804) AS 12mm DIAMETER PULL ROPE IN ALL DUCTS PER TII SPECIFICATION FOR ROADWORKS RED CABLE MARKER STRIP 2.5mm THK. MINIMUM WIDTH TO E TENTS OF DUCTS BELOW DUCTS LAID IN CBGM B (CL. 822) COMPACTED TO CL.813.10 AND TABLE 8/4 OF TII SPECIFICATION FOR ROADWORKS (15N/mm² AFTER 7 DAYS) B2 B3 - 12mm DIAMETER PULL ROPE IN ALL DUCTS A 125mm O.D. HDPE DUCT FOR COMMUNICATIONS SDR 17.6 3 160mm O.D. HDPE DUCT FOR HV CABLE SDR 17.6 125mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR SDR 17.6 **SECTION A-A DETAIL 1**

TYPICAL CROSS SECTION INDICATING TRENCH FOR 110KV CIRCUIT UNDER ROADS



SECTION A-A DETAIL 2 TYPICAL CROSS SECTION INDICATING TRENCH FOR 110KV CIRCUIT UNDER ROADS (TREFOIL)

SECTION B-B DETAIL 3 TYPICAL CROSS SECTION INDICATING TRENCH FOR 110KV CIRCUIT IN FULL FLAT FORMATION UNDER 3RD PARTY SERVICE

SCALE 1:10

NOT FO CONST

	Cable Depth to top of duct	Width of
	to top of duct	trench (mm)
OR	950	930
	1.5	1130
TRUCTION	2	1200
	2.5	1480

SEAL JOINTS

E ISTING 3RD PARTY SERVICE

FOR WIDTH OF TRENCH

VOIDS ARE CREATED

APPROVED YELLOW WARNING TAPE

75MM CL804 SEPARATION BETWEEN

-E ISTING SERVICE AND CONCRETE

6 200mm RED CABLE MARKER STRIPS

LINKED TO 6 200mm WIDE GALVANI ED

STEEL PLATES. MESH AND STEEL PLATES

TO E TEND 1m EITHER SIDE OF SERVICE BACKFILL WITH C25/30 TO WITHIN 50mm OF E ISTING SERVICE 1m EITHER SIDE OF TH

SERVICE TO ENSURE NO UNCOMPACTED

- E ISTING 3RD PARTY SERVICE

MARKER TAPE

A. ALL PRODUCTS TO BE UTILISED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.

B. 300mm MINIMUM VERTICAL AND HORI ONTAL CLEARANCES TO BE OBSERVED BETWEEN CABLE DUCTS AND THIRD PARTY SERVICES (e.g. GAS PIPES WATER MAINS CULVERTS etc.) IN THE CASE OF HIGH RISK 3RD PARTY SERVICES GREATER CLEARANCES MAY BE RE UIRED. DESIGNER TO CONSULT 3RD PARTY SERVICE OWNERS FOR GUIDANCE.

C. STEEL PLATES MUST COVER DUCTS. NO OVERLAP IS RE UIRED HOWEVER STANDARD DIMENSIONS MAY RESULT IN AN OVERLAP.

SPACING OF 25mm TO BE MAINTAINED BETWEEN STEEL PLATES TO PREVENT THE TRANSFER OF STRAY CURRENT D. THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION DUCTS IS 75mm BUT INCREASED SPACING MAY BE RE UIRED IN ORDER TO ACHIEVE THE CABLE RATING (TO BE CONFIRMED BY DESIGNER CABLE RATING CALCULATIONS).

E. DRAWING IS INDICATIVE ONLY TO BE USED TO AID IN THE DESIGN OF RELEVANT INFRASTRUCTURE. F. TEMPLATES ARE TO BE USED AT 5m INTERVALS DURING DUCT INSTALLATION IN CBGM, PRE-MADE 75mm DUCT INSTALLATION IN WET CONCRETE.

150

G. HAND DIG WITHIN 500mm OF E ISTING SERVICE.

H. EARTH CONTINUITY CONDUCTOR IS A MIN 63mm DUCT TO BE INSTALLED OUTSIDE OF PHASE DUCT. I. IF E ISTING SERVICE MARKER TAPE IS NOT PRESENT THE YELLOW MARKER TAPE SHOULD BE INSTALLED A MA IMUM OF 300mm BELOW FINISHED SURFACE LEVEL.

A 125mm O.D. HDPE DUCT FOR COMMUNICATIONS SDR 17.6 B 160mm O.D. HDPE DUCT FOR HV CABLE SDR 17.6 E 125mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR SDR 17.6 RED MARKER STRIP

YELLOW MARKER WARNING TAPE E ISTING SERVICE MARKER STRIP 6mm GALVANISED STEEL PLATE RAPID HARDENING WET CONCRETE C25/30 CBGM B (CL. 822). COMPACTED TO CL 813.10

BACKFILL COMPACTED (CL. 804)

AECOM

THE SEVEN HILLS **WINDFARM** (MIDLANDS HV CABLE ROUTE)

CLIENT



CONSULTANT

AECOM Limited The Clarence West Building 2 Clarence Street West BT2 7GP **United Kingdom** 44-(0)28-90607200

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- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE
- REINSTATEMENT METHODS AND DETAILS TO BE AGREED WITH LOCAL AUTHORITY IN ADVANCE OF WORKS.
- NOTES TO BE READ IN CONJUNCTION WITH DEPARTMENT OF TRANSPORT TOURISM SPORT GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS. (PURPLE BOOK)

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-	P2	22/12/2021	Removal of Duct E Section B-B		
-	P1	09/12/2021	160mm Diameter Ducts U dated		
-	P0	23/09/2020	FIRST ISSUE		
_	I/R	DATE	DESCRIPTION		

STATUS

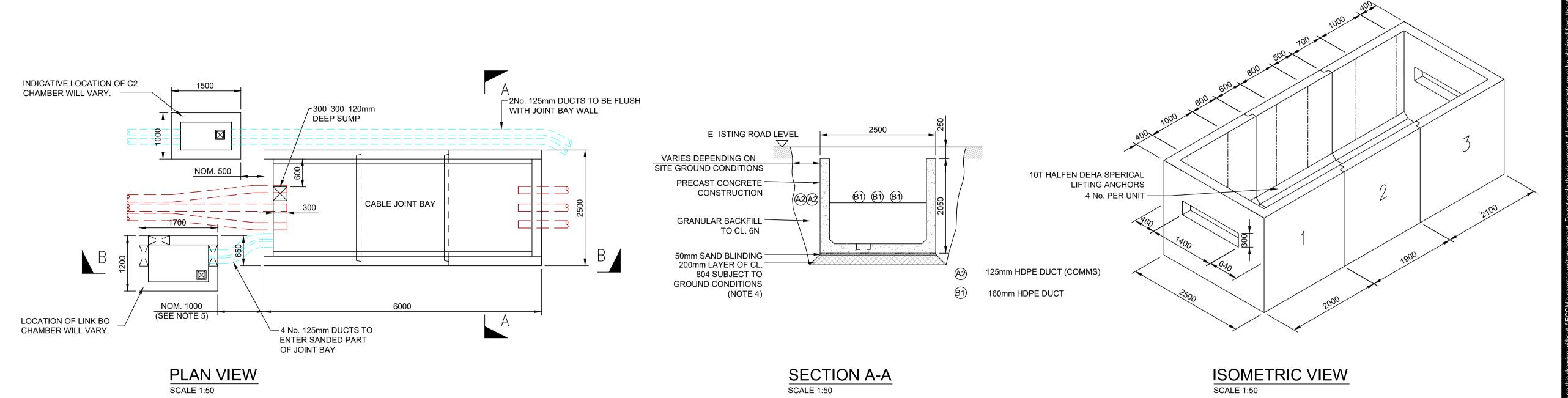
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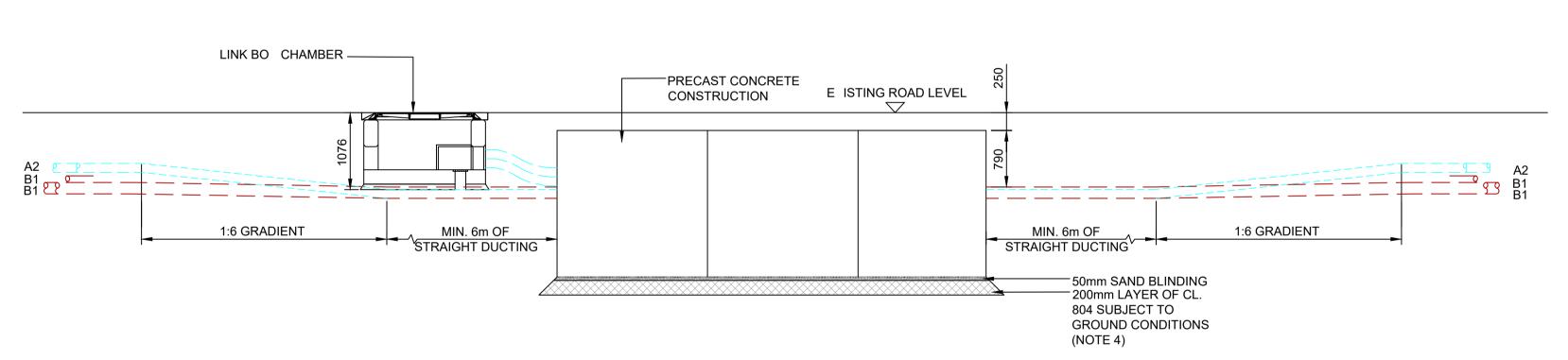
PROJECT NUMBER **SCALE AS SHOWN** PR-471040

SHEET TITLE

THE SEVEN HILLS WINDFARM (MIDLANDS HV CABLE ROUTE) TYPICAL STANDARD TRENCH DETAILS

SHEET NUMBER





SECTION B-B SCALE 1:50

NOTES:

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OTHERWISE. 4. STANDARD FOUNDATIONS ARE BASED ON THE FORMATION AT THE BASE OF THE E CAVATION SHOWN BEING SUITABLE FOR A MINIMUM BEARING PRESSURE OF 100kN/m2. SUITABILITY OF STANDARD JOINT BAY FOUNDATIONS CAN ONLY BE CONFIRMED FOLLOWING GROUND INVESTIGATION. HAND VANE TESTS PLATE LOAD TESTS AND LWD (CBR) TESTS SHALL BE RE UIRED AS PER GI SPECIFICATION. WHERE SPECIFIED MINIMUM BEARING PRESSURE IS NOT ACHIEVABLE THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR GUIDANCE.

5. THE LENGTH OF BONDING LEAD LENGTH SHALL IN NO CASE E CEED 10m. NO JOINTS IN BONDING CABLE ARE PERMITTED. 6. BARE STRANDED 95mm2 COPPER CONDUCTOR SHALL HAVE 100mm SOIL SURROUND.PVC INSULATED CONDUCTOR RE UIRED WITHIN JOINT BAY AND WHERE CONTACT WITH POWER AND AU CABLES IS POSSIBLE. BURIAL DEPTH TO BE 1 METRE INFORMATION TO BE REVIEWED BY ELECTRIC TEAM.

7. COPPERBOND ROD NOMINAL 20mm DIA 1200mm LONG (FURSE RB210 OR SIMILAR). CONNECTION TO STRANDED CONDUCTOR SHALL BE VIA SUITABLE ROD TO CABLE CLAMP. EARTH ROD SHALL BE DRIVEN TO NATIVE SOIL INFORMATION TO BE REVIEWED BY ELECTRIC TEAM. IF THIS IS NOT ACHIEVABLE THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR GUIDANCE. IF ROCK IS PRESENT AND IT IS NOT FEASIBLE TO DRIVE THE EARTH RODS THEN 6 METER RADIAL CONDUCTORS CAN BE INSTALLED CONNECTING TO THE MAIN EARTH GRID AT THE LOCATION OF THE EARTH RODS IN LIEU OF THE EARTH RODS THEMSELVES.

8. EARTH BAR SHALL BE FI ED TO THE JOINT BAY SIDEWALL IN A SUITABLE LOCATION TO FACILITATE ROUTING OF BONDING LEADS AND JOINTING. MIN. 2 NO. TAILS RE UIRED TO CONNECT TO THE 95mm2 EARTH RING INFORMATION TO BE REVIEWED BY ELECTRIC TEAM.

LEGEND



125mm HDPE COMMUNICATION DUCT WITH 12mm DIAMETER PULL ROPE

12mm DIAMETER PULL ROPE

NOT FOR CONSTRUCTION

C2 COMMS

CHAMBER

1500

LINK BO

CHAMBER

SCALE 1:50

150

JOINT BAY EARTHING DETAIL

-BARE 95mm2 COPPER

∕EARTH BAR

-PVC INSULATED 95mm2

COPPER (NOTE 6)

EARTH ROD

(NOTE 7)

150

H-CLAMP (95mm-95mm)

(MIN. 6-WAY 50 6mm)

____ 95mm2 BORE STRANDED

EARTH BAR

_ _ _ PVC INSULATED 95mm2 COPPER

BURIED TO MIN 1m

BURIED AT 2m

(NOTE 6)

AECOM

THE SEVEN HILLS **WINDFARM** (MIDLANDS HV CABLE ROUTE)

CLIENT



CONSULTANT

AECOM Limited 9th Floor The Clarence West Building 2 Clarence Street West BT2 7GP United Kingdom

44-(0)28-90607200

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ISSUE/REVISION P1 09/12/2021 160mm Diameter Ducts U dated P0 23/09/2020 FIRST ISSUE DATE DESCRIPTION

STATUS

PROJECT NUMBER

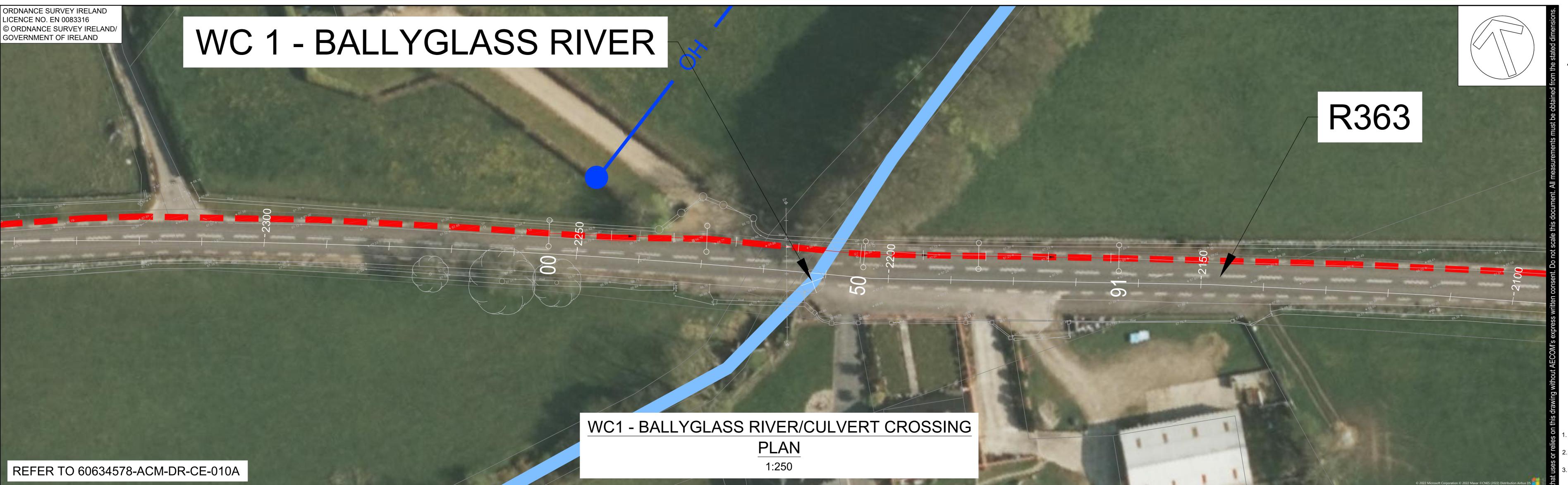
AS SHOWN PR-471040

SHEET TITLE

THE SEVEN HILLS WINDFARM (MIDLANDS HV CABLE ROUTE) TYPICAL JOINT BO DETAILS

SHEET NUMBER

60634578-ACM-DR-CE-037

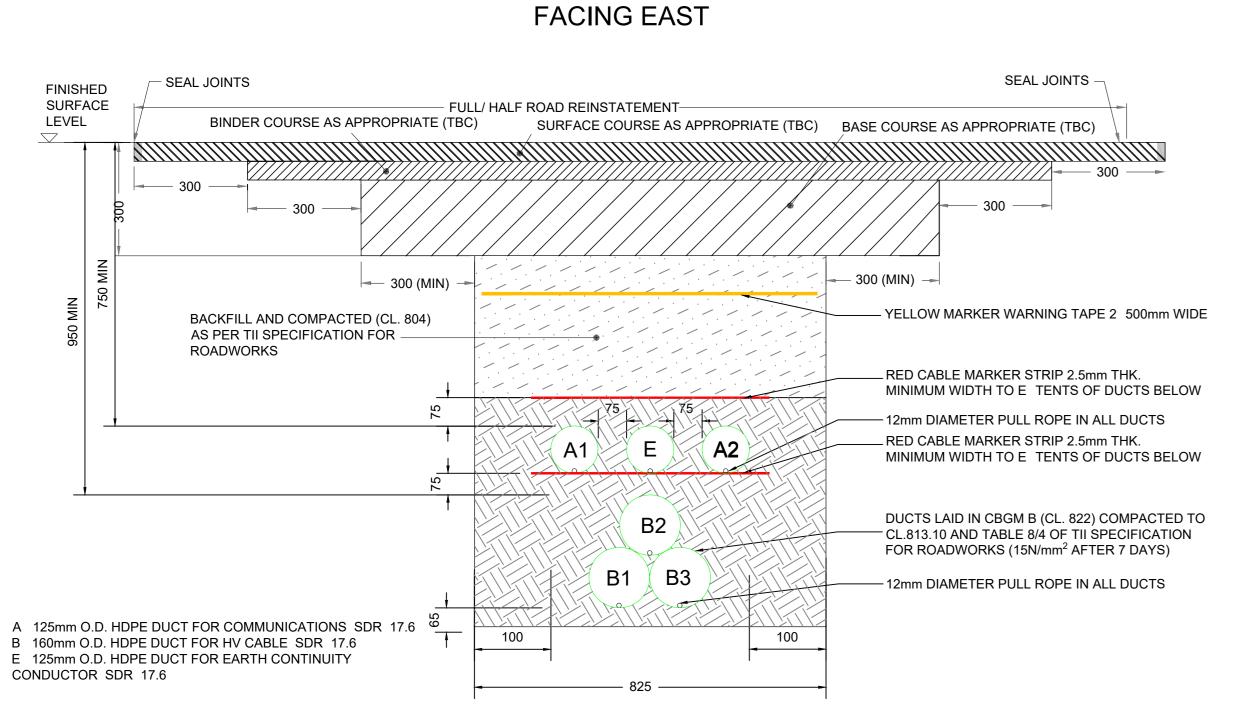




WC1 - SITE PHOTO **FACING WEST**

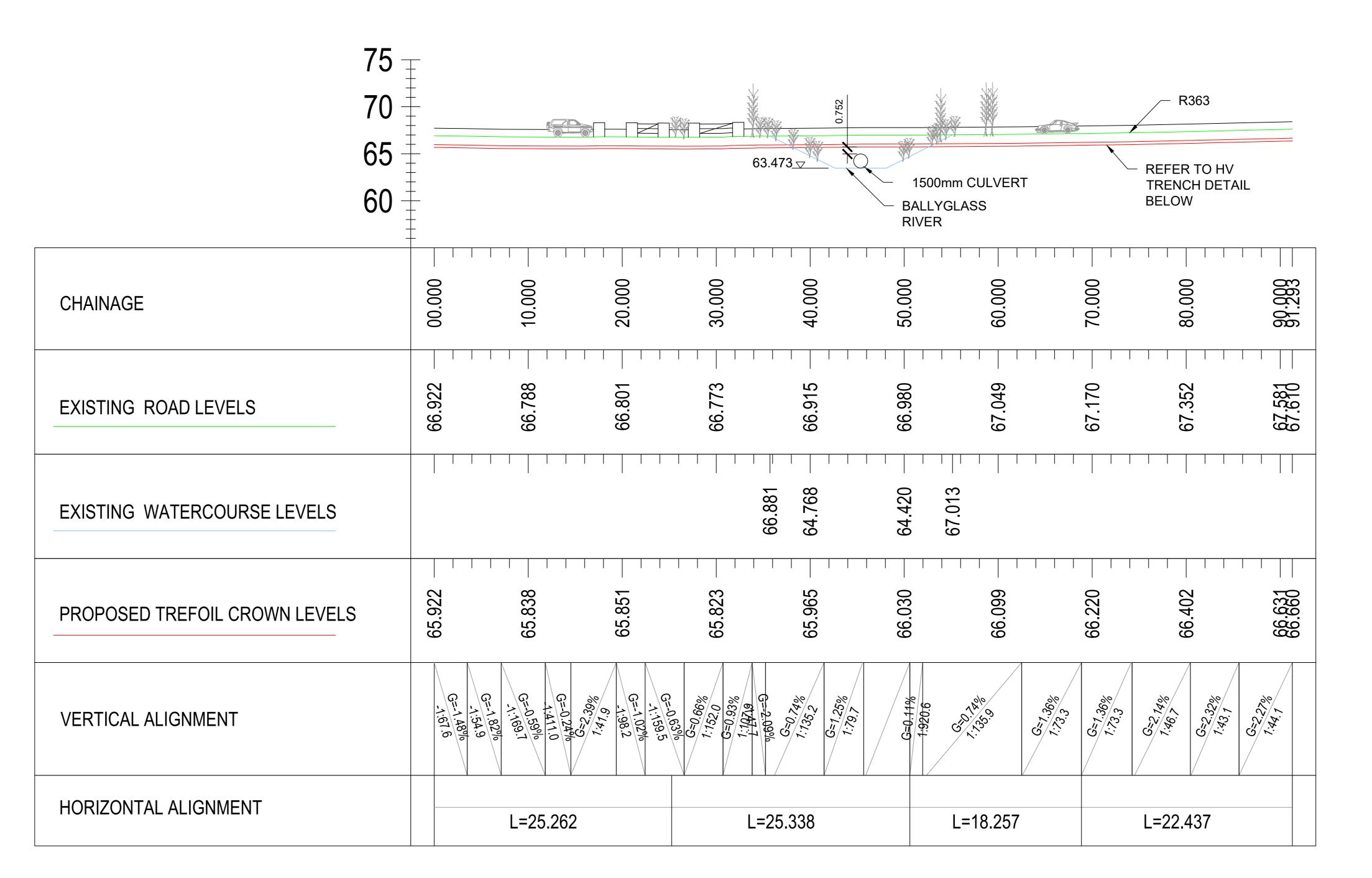


WC1 - SITE PHOTO



CROSS SECTION INDICATING TRENCH FOR 33KV CIRCUIT UNDER ROADS (TREFOIL)

NTS



WC1 - BALLYGLASS RIVER/CULVERT CROSSING LONGSECTION

AECOM

SEVEN HILLS

WINDFARM (PROPOSED 110KV CABLE ROUTE)



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- PROPOSED SITE ACCESS TO CROSSINGS AND E IT SITE COMPOUNDS TO BE AGREED WITH ALL RELEVANT PUBLIC AND PRIVATE PARTIES IN ADVANCE OF ANY WORKS.
- PRIOR TO CONSTRUCTION CONSULTATION WILL BE HELD WITH LOCAL COUNTY COUNCIL WITH RESPECT TO APPROVING THE FINAL DESIGN FOR CROSSINGS OVER THEIR RESPECTIVE ASSETS.
- CONTRACTOR TO VERIFY GROUND CONDITIONS THROUGH ADDITIONAL GEOTECHNICAL INVESTIGATIONS AND BOREHOLES IN ADJOINING LANDS.
- ALL WORKS TO CONFORM TO PLANNING CONDITION AND
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- CONTRACTOR TO UNDERTAKE APPROVED SITE INVESTIGATE FOR ALL ASSOCIATED UTILITIES AND STRUCTURAL REPORT FOR RELEVANT BUILDINGS AND STRUCTURES.
- ALL LANDSCAPE AND ENVIRONMENTAL WORKS TO CONFORM TO THE EIAR.

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P0	26/04/2022	FIRST ISSUE			
I/R	DATE	DESCRIPTION			

ÚÜUÚUÙÒÖÁNORTHERN INTERNAL WF 33KV

ÒÝÒVO ÕÁVATERMAIN ÒÝÒVO ÕÁVATERCOURSE

ISSUF/REVISION

EXISTING LV (400V/230V) OVERHEAD ROUTE — OH —

STATUS

FIRST ISSUE

PROJECT NUMBER

AS SHOWN @ A0 PR-471040

SCALE

SHEET TITLE

SEVEN HILLS WINDFARM

(PROPOSED 33KV CABLE ROUTE) WC1 - BALLYGLASS RIVER/CULVERT CROSSING

SHEET NUMBER

NOTE - TRENCH REINSTAEMENT TO FIELD TO MIN 300MM

A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS, SDR=17.6

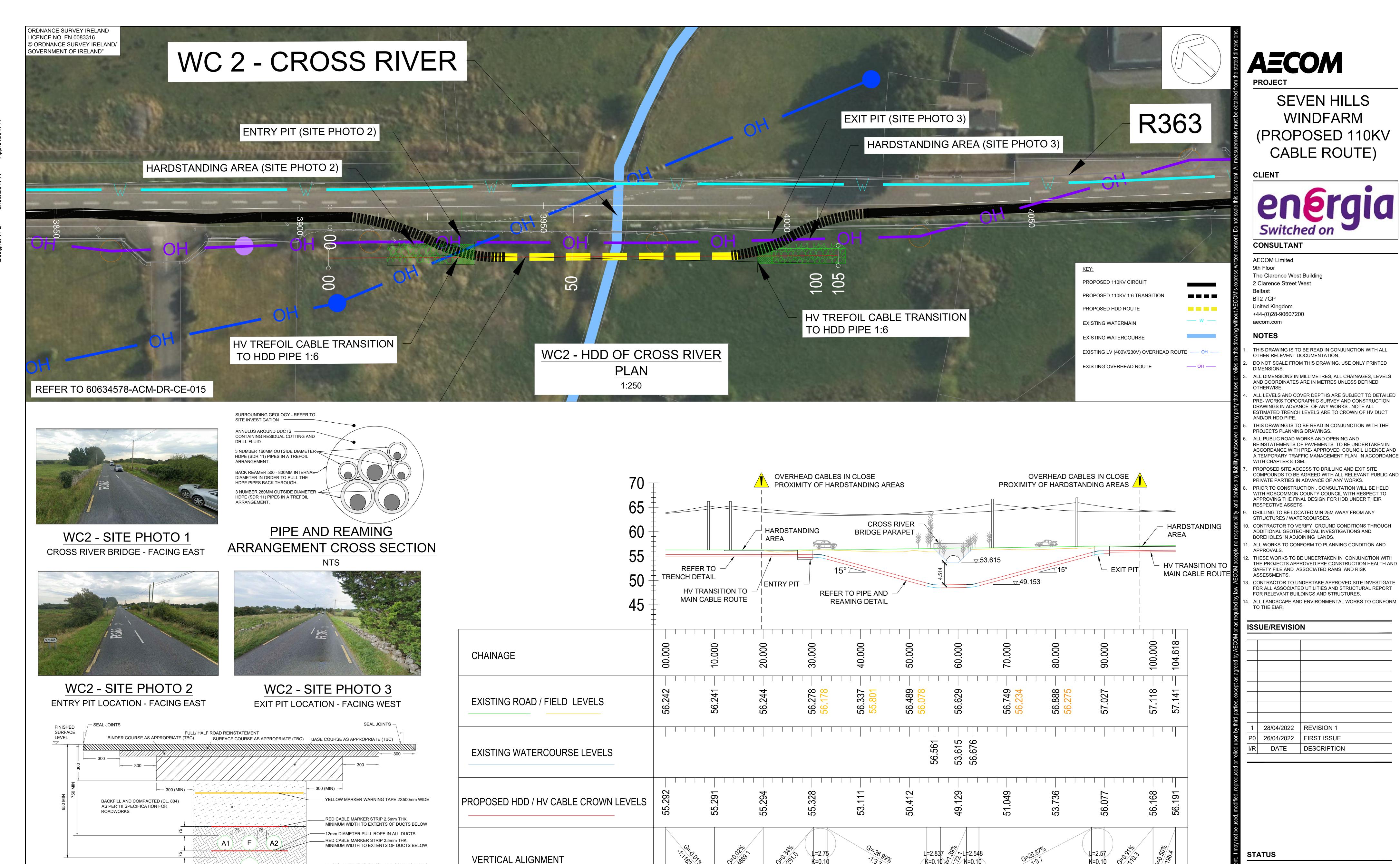
B= 160mm O.D. HDPE DUCT FOR HV CABLE, SDR=17.6

E= 125mm O.D. HDPE DUCT FOR EARTH CONTINUITY

CONDUCTOR, SDR=17.6

CONTRACTOR TO MAKE GOOD ALL WORKS TO SATISFACTION

TOPSOIL WITH GRASS SEED IN LIEU OF ASPHALT.



CROSS SECTION INDICATING TRENCH FOR 110KV CIRCUIT UNDER ROADS (TREFOIL)

DUCTS LAID IN CBGM B (CL. 822) COMPACTED TO

HORIZONTAL ALIGNMENT

CL.813.10 AND TABLE 8/4 OF TII SPECIFICATION

FOR ROADWORKS (15N/mm² AFTER 7 DAYS)

- 12mm DIAMETER PULL ROPE IN ALL DUCTS

WC2 - HDD OF CROSS RIVER LONGSECTION

L=104.618

PROJECT NUMBER

FIRST ISSUE

AS SHOWN @ A0 PR-471040

SHEET TITLE

SEVEN HILLS WINDFARM (PROPOSED 110kV CABLE ROUTE) WC2 - HDD OF CROSS RIVER

REVISION ²

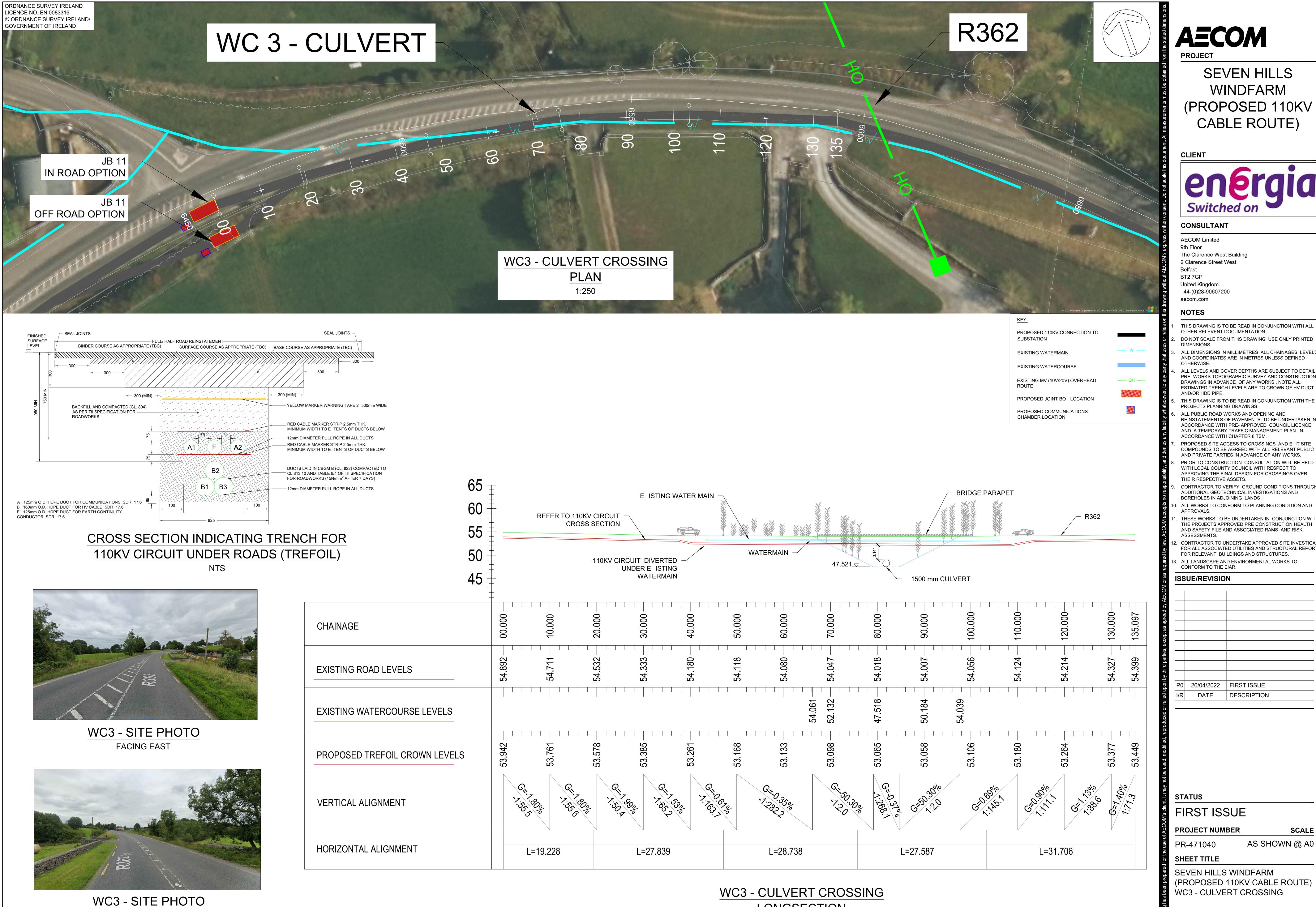
FIRST ISSUE

DESCRIPTION

SHEET NUMBER

60634578-ACM-DR-CE-042

FACING WEST



LONGSECTION 1:250

AECOM

SEVEN HILLS WINDFARM (PROPOSED 110KV CABLE ROUTE)



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AND PRIVATE PARTIES IN ADVANCE OF ANY WORKS. PRIOR TO CONSTRUCTION CONSULTATION WILL BE HELD WITH LOCAL COUNTY COUNCIL WITH RESPECT TO APPROVING THE FINAL DESIGN FOR CROSSINGS OVER THEIR RESPECTIVE ASSETS.

CONTRACTOR TO VERIFY GROUND CONDITIONS THROUGH ADDITIONAL GEOTECHNICAL INVESTIGATIONS AND BOREHOLES IN ADJOINING LANDS.

ALL WORKS TO CONFORM TO PLANNING CONDITION AND

THESE WORKS TO BE UNDERTAKEN IN CONJUNCTION WITH AND SAFETY FILE AND ASSOCIATED RAMS AND RISK

CONTRACTOR TO UNDERTAKE APPROVED SITE INVESTIGATE FOR ALL ASSOCIATED UTILITIES AND STRUCTURAL REPORT FOR RELEVANT BUILDINGS AND STRUCTURES.

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ISSUE/REVISION P0 26/04/2022 FIRST ISSUE DESCRIPTION

STATUS

FIRST ISSUE

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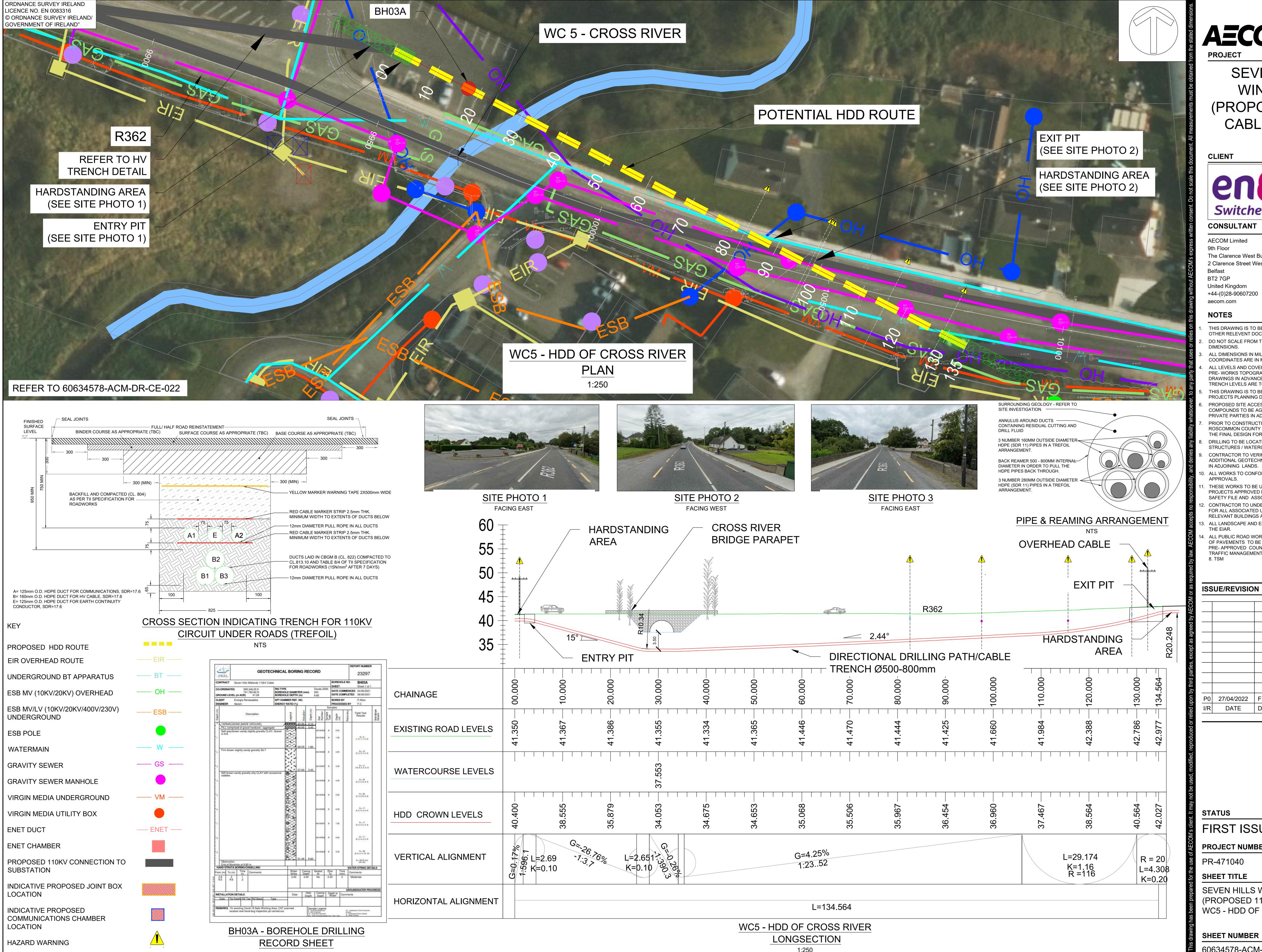
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SHEET TITLE

SEVEN HILLS WINDFARM (PROPOSED 110KV CABLE ROUTE) WC3 - CULVERT CROSSING

SHEET NUMBER

60634578-ACM-DR-CE-043



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SEVEN HILLS WINDFARM (PROPOSED 110KV CABLE ROUTE)



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- TRENCH LEVELS ARE TO CROWN OF HV DUCT AND/OR HDD PIPE THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECTS PLANNING DRAWINGS.
- PROPOSED SITE ACCESS TO DRILLING AND EXIT SITE
- COMPOUNDS TO BE AGREED WITH ALL RELEVANT PUBLIC AND PRIVATE PARTIES IN ADVANCE OF ANY WORKS.
- PRIOR TO CONSTRUCTION, CONSULTATION WILL BE HELD WITH ROSCOMMON COUNTY COUNCIL WITH RESPECT TO APPROVING THE FINAL DESIGN FOR HDD UNDER THEIR RESPECTIVE ASSETS
- DRILLING TO BE LOCATED MIN 25M AWAY FROM ANY STRUCTURES / WATERCOURSES. CONTRACTOR TO VERIFY GROUND CONDITIONS THROUGH
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P0 27/04/2022 | FIRST ISSUE DESCRIPTION

STATUS

FIRST ISSUE

PROJECT NUMBER

PR-471040

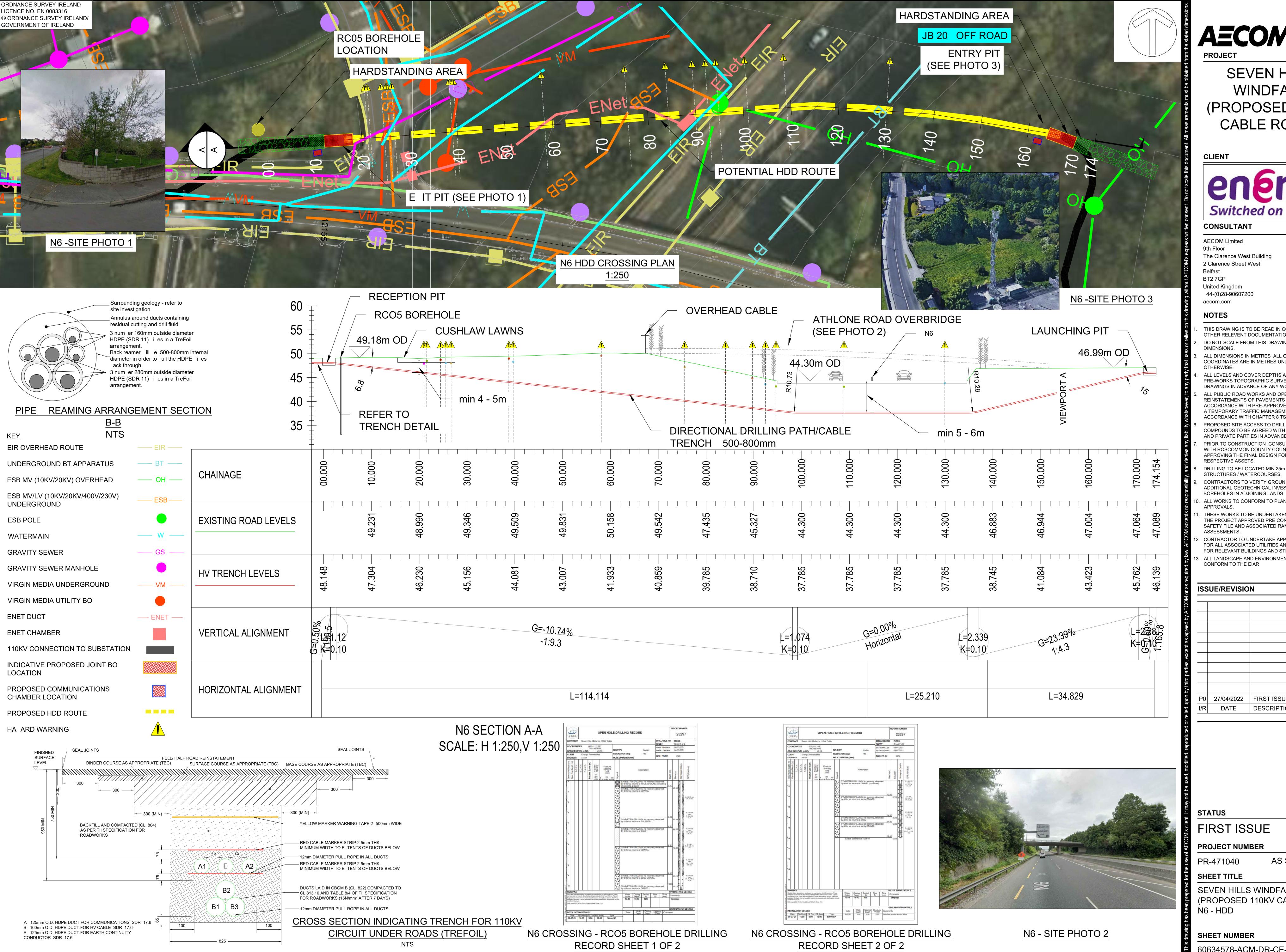
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SHEET TITLE

SEVEN HILLS WINDFARM (PROPOSED 110kV CABLE ROUTE) WC5 - HDD OF CROSS RIVER

SHEET NUMBER

60634578-ACM-DR-CE-044



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SEVEN HILLS WINDFARM (PROPOSED 110KV CABLE ROUTE)



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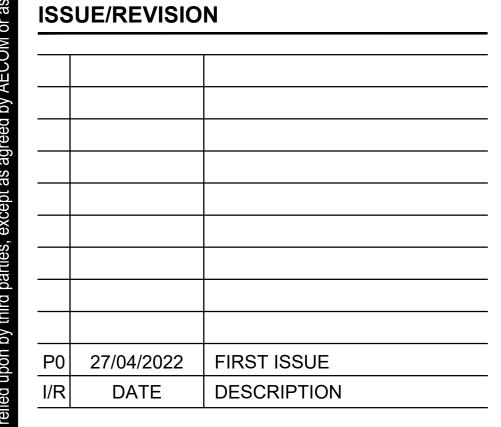
DRILLING TO BE LOCATED MIN 25m AWAY FROM ANY STRUCTURES / WATERCOURSES. CONTRACTORS TO VERIFY GROUND CONDITIONS THROUGH ADDITIONAL GEOTECHNICAL INVESTIGATIONS AND

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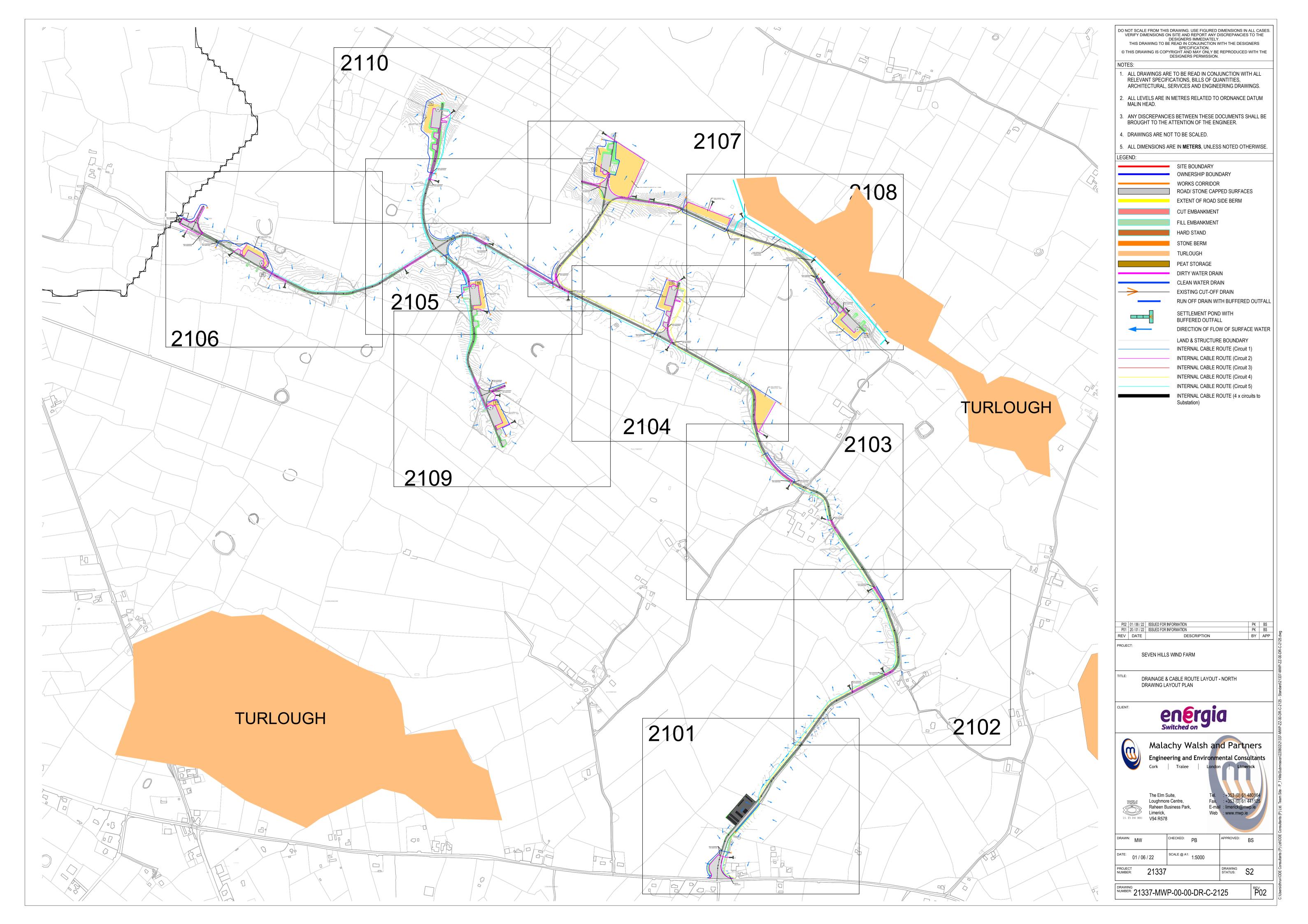
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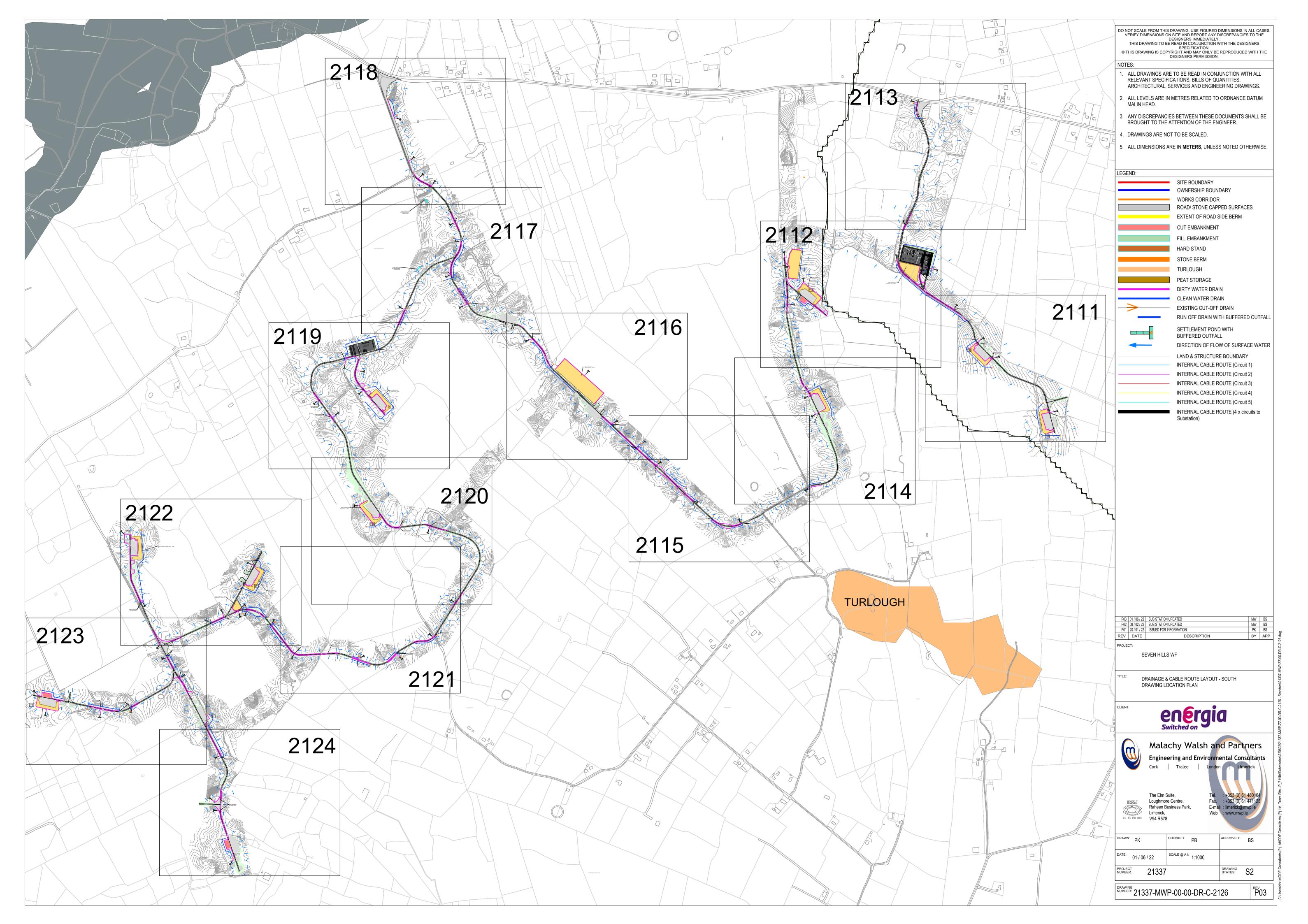
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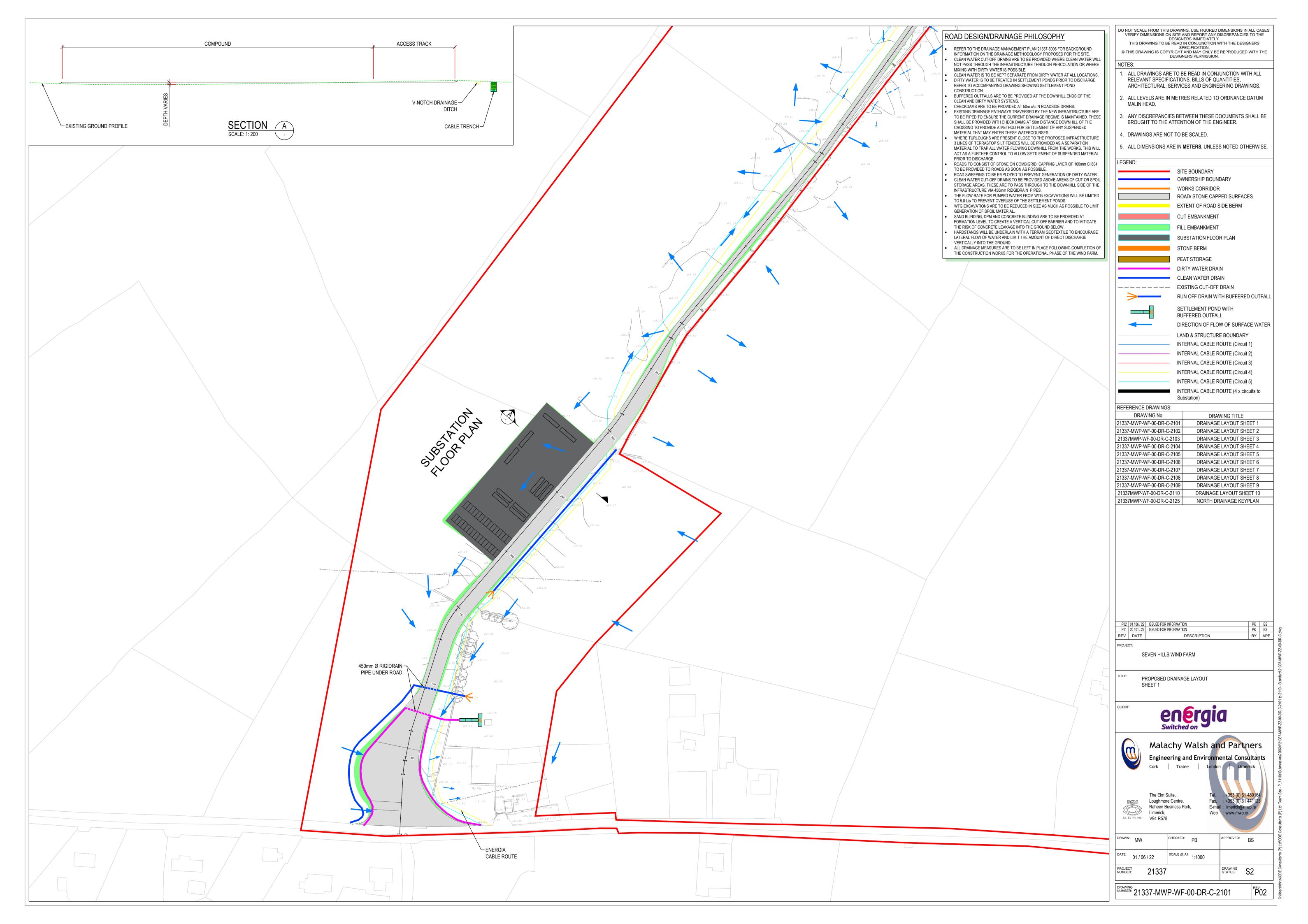
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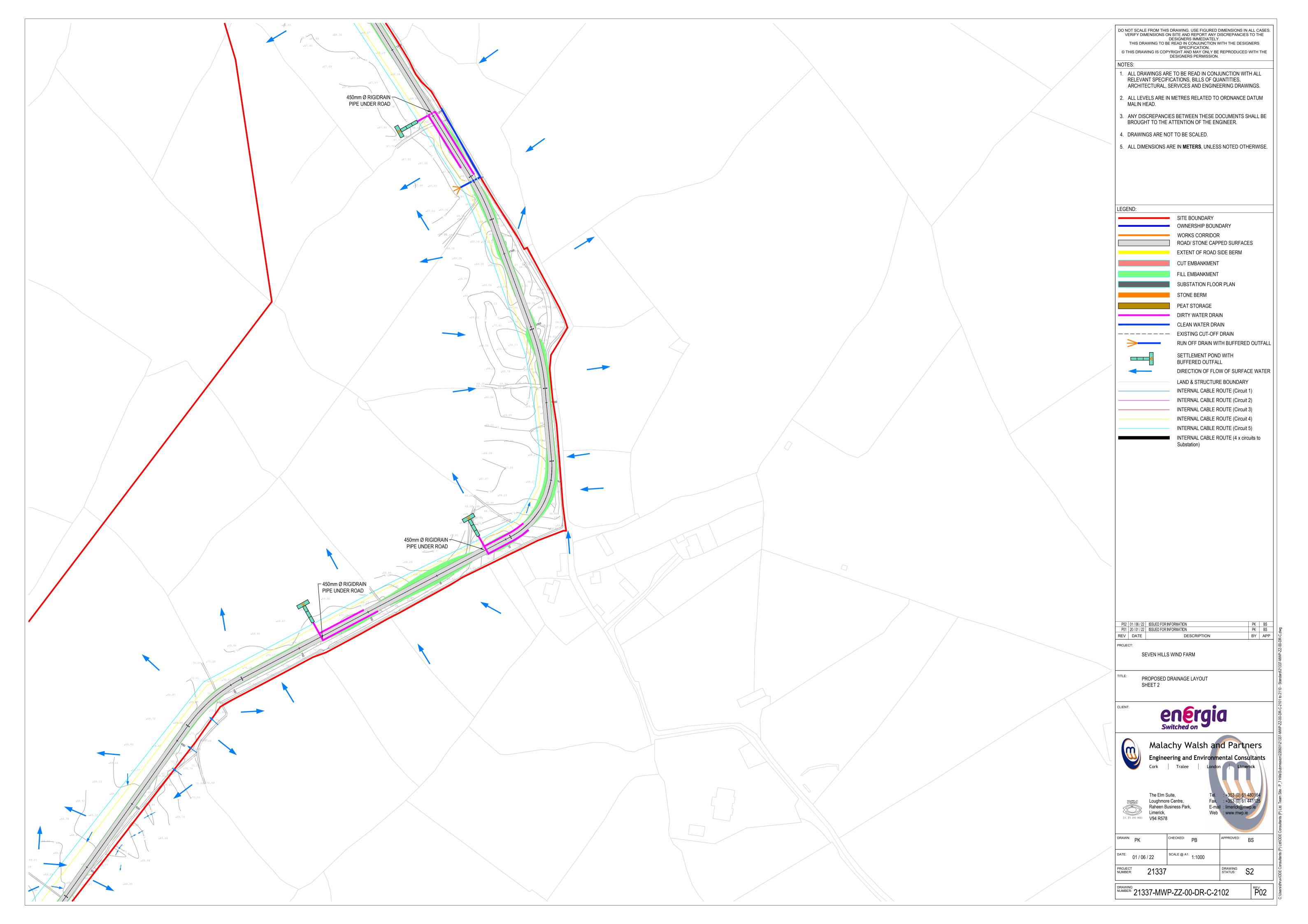
SEVEN HILLS WINDFARM (PROPOSED 110KV CABLE ROUTE)

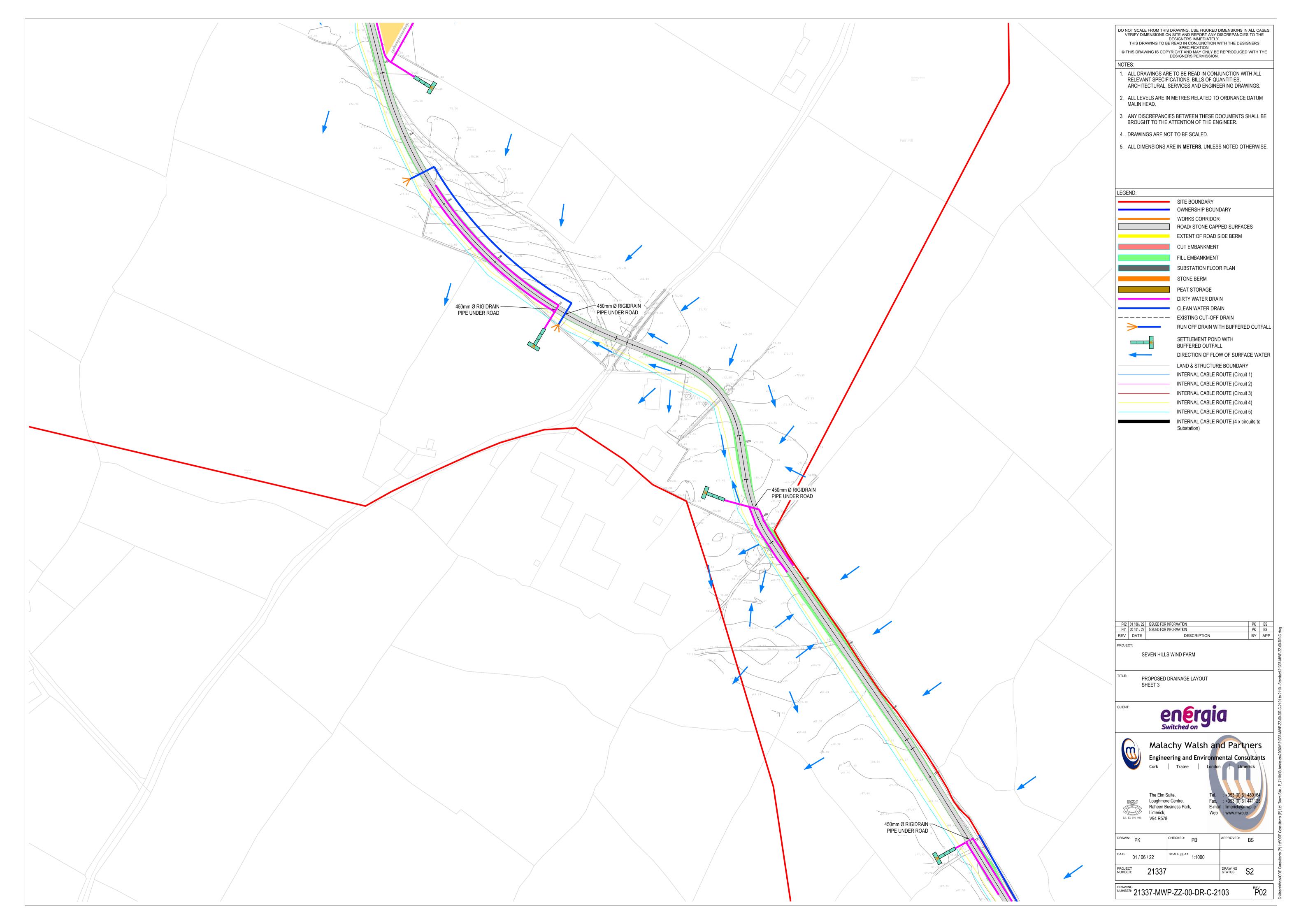
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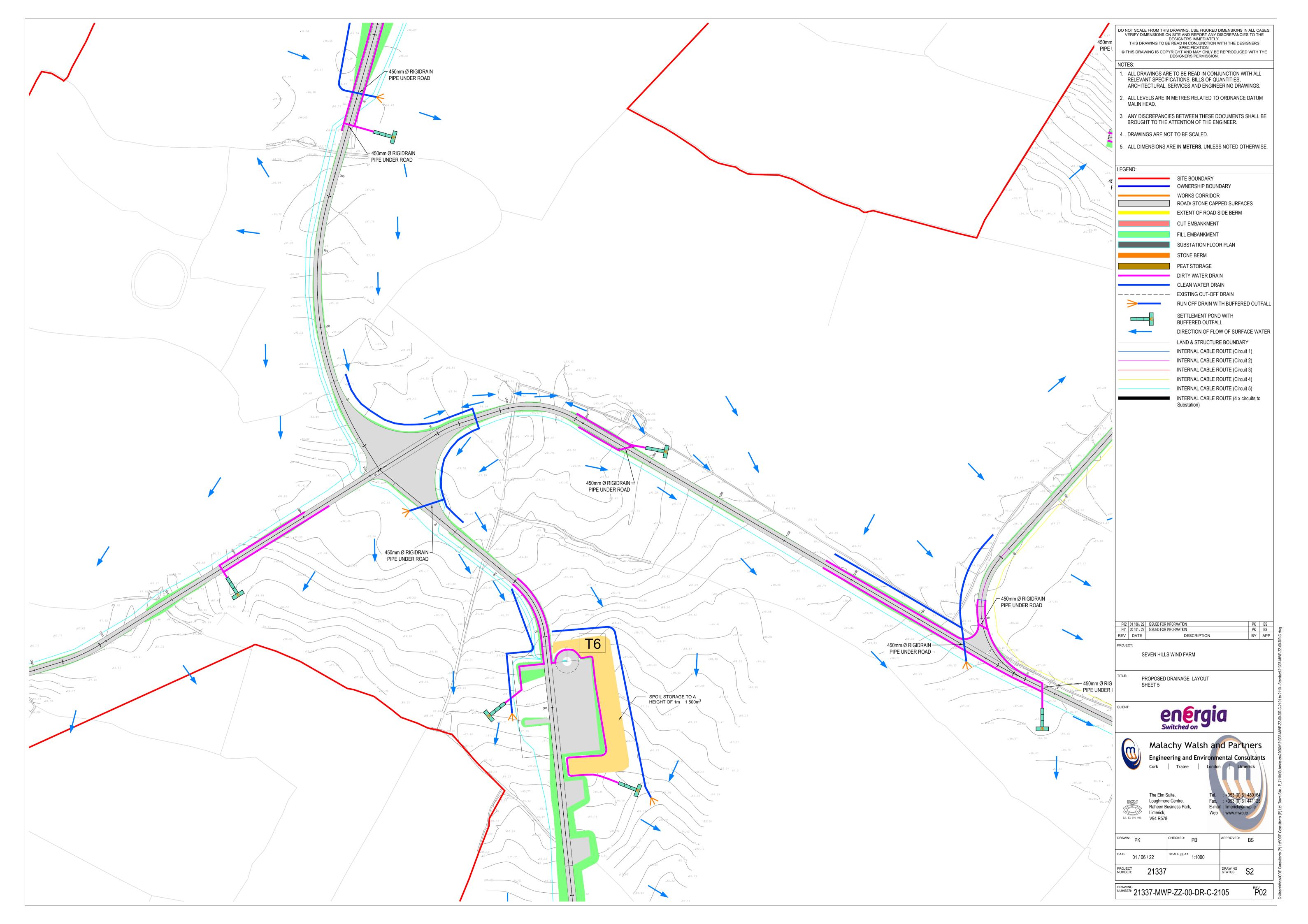




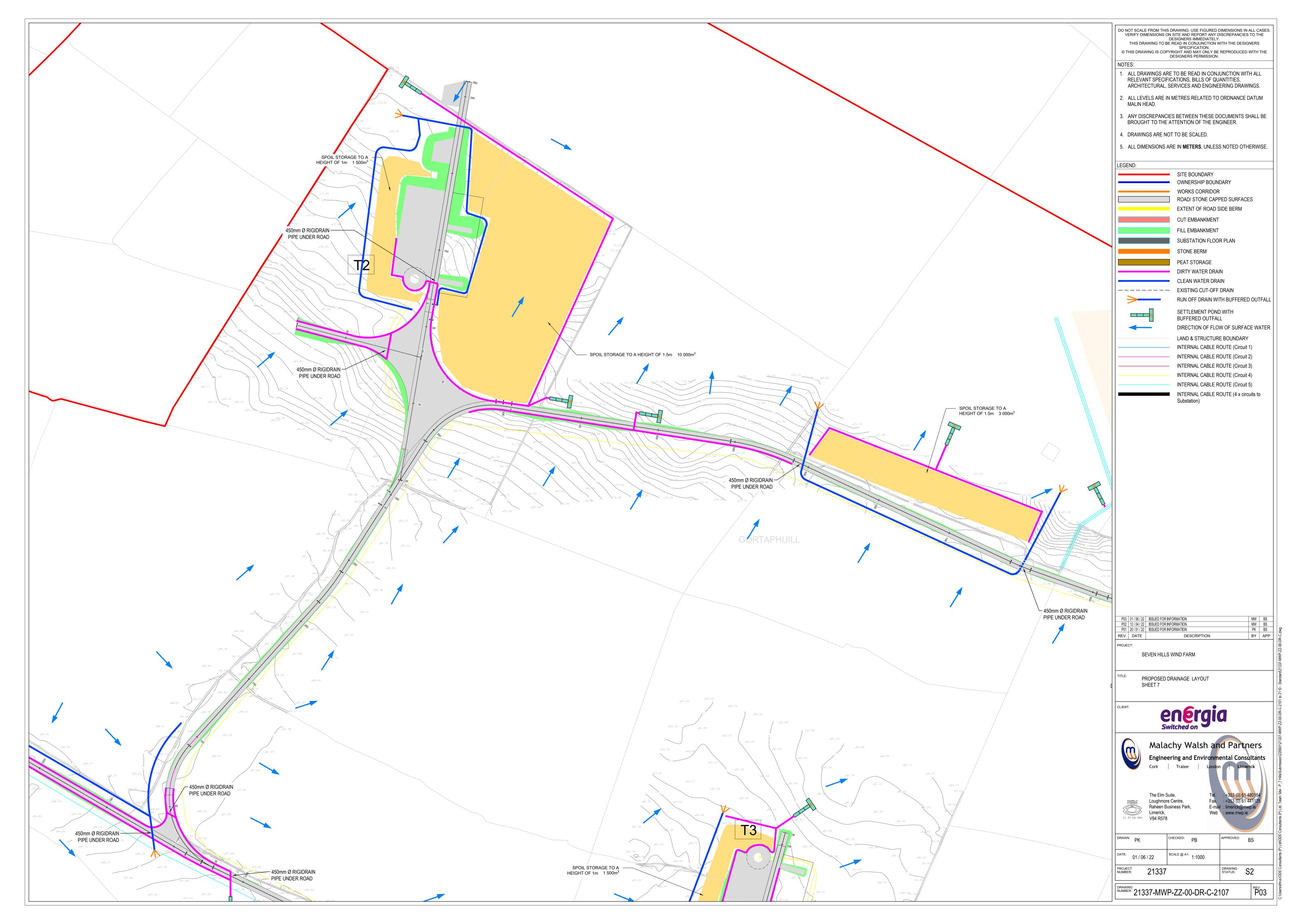








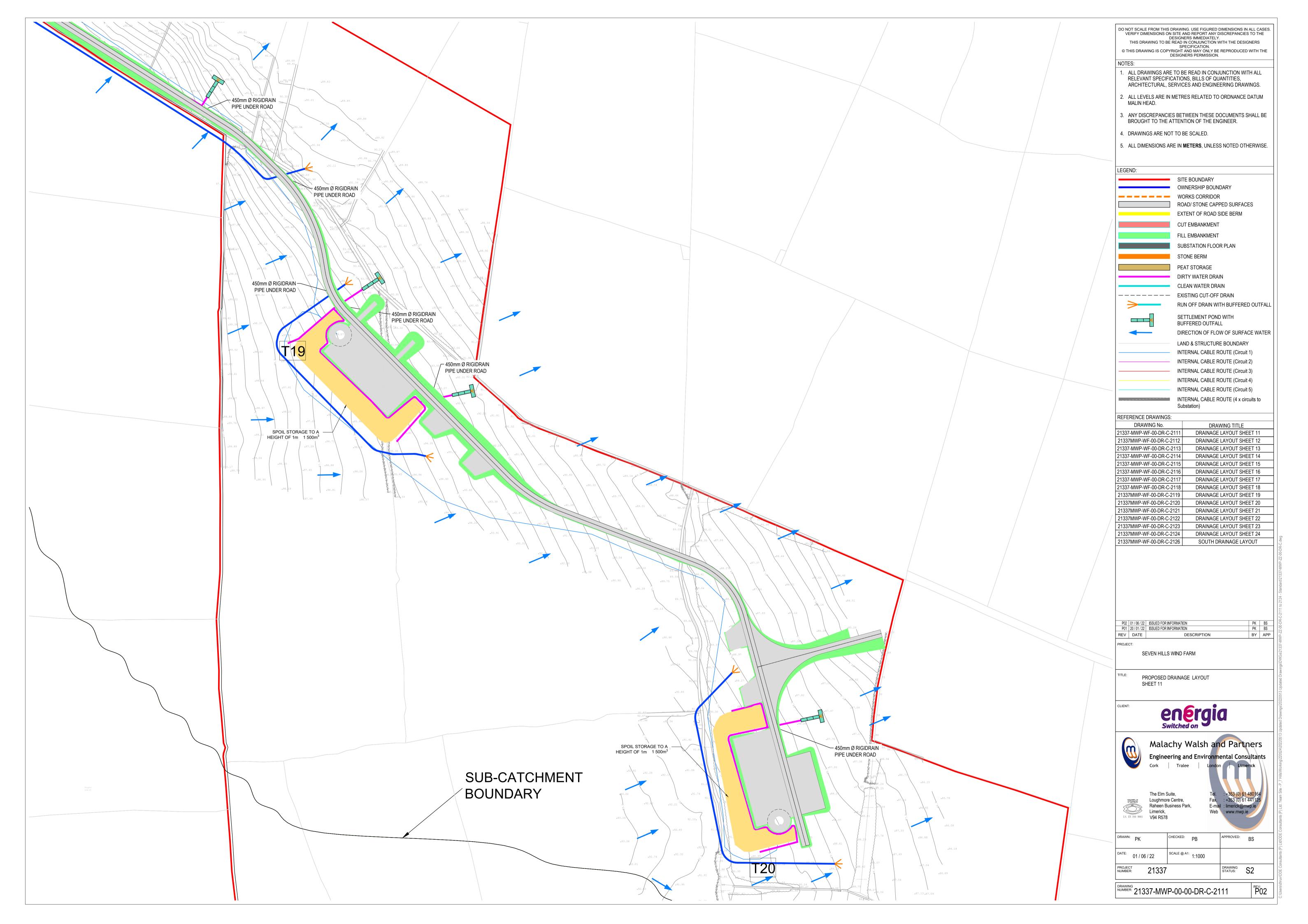


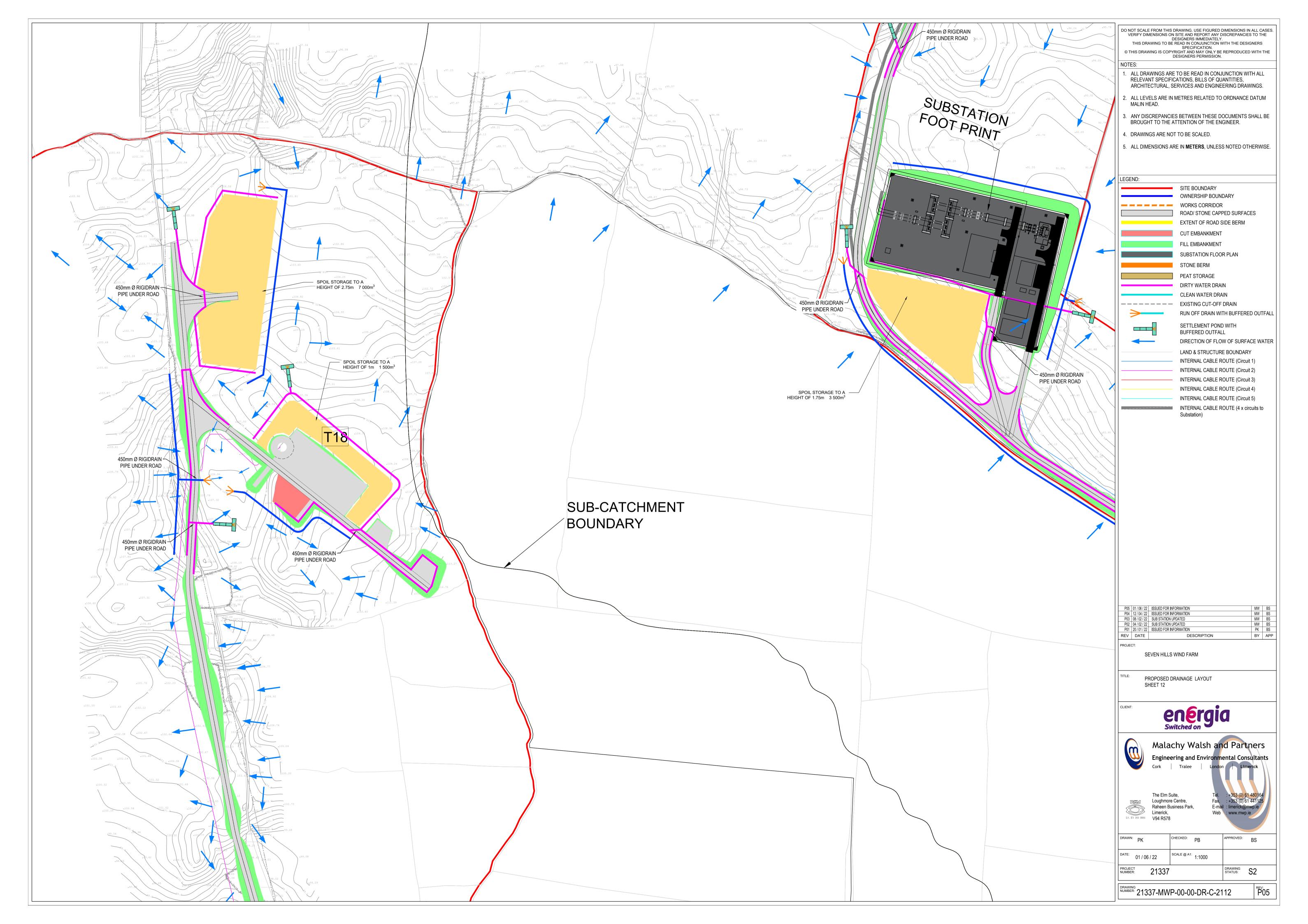


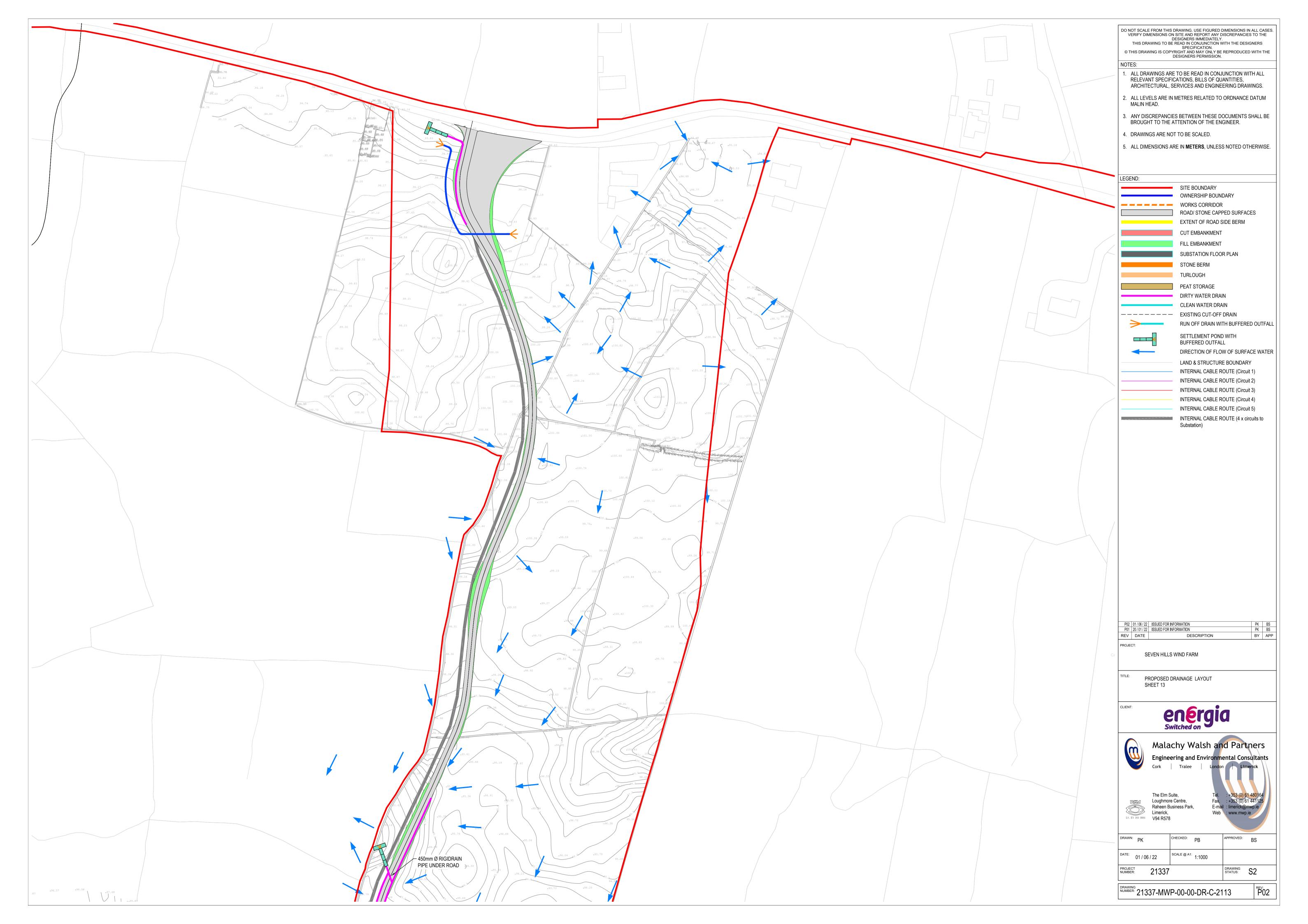


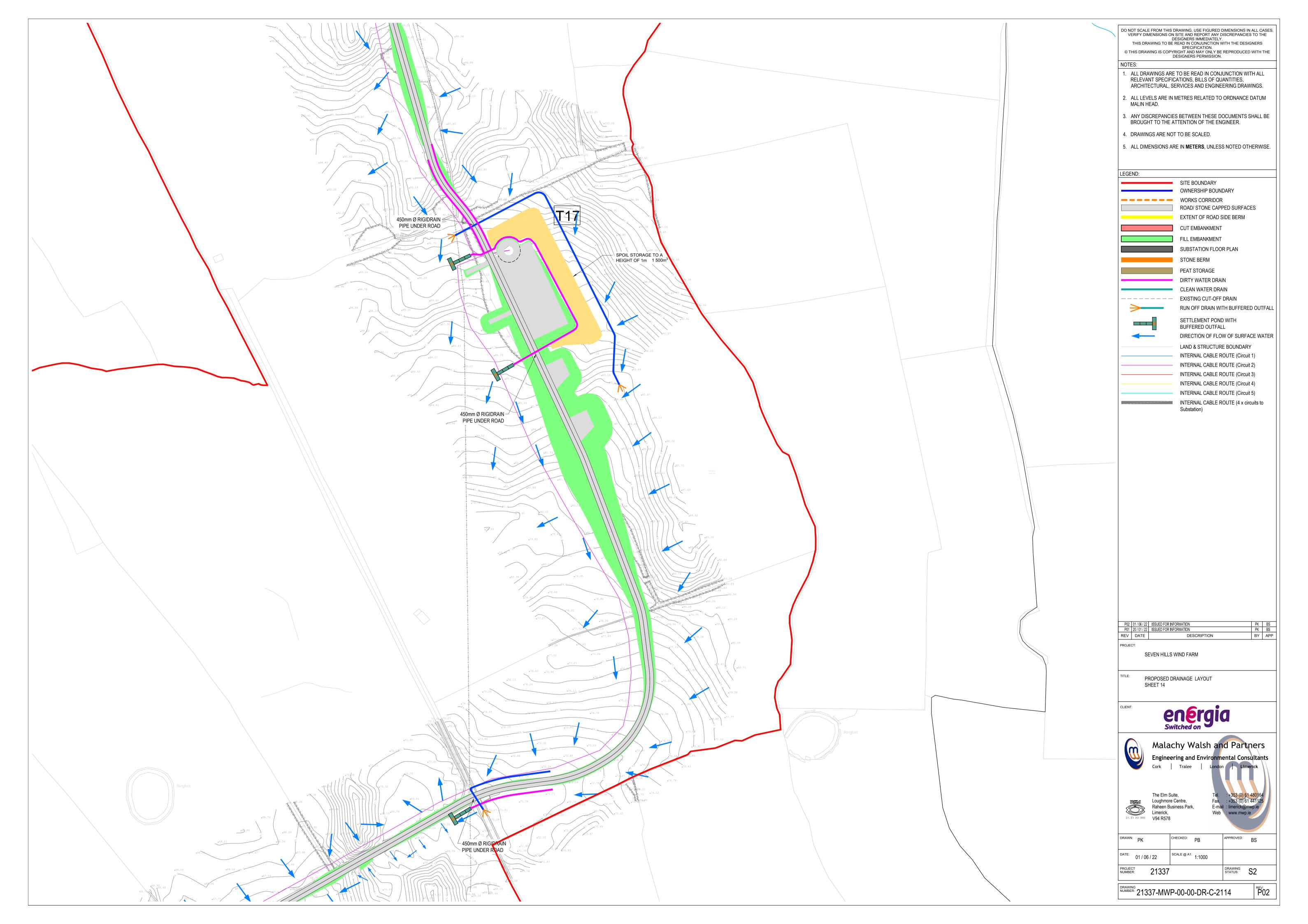


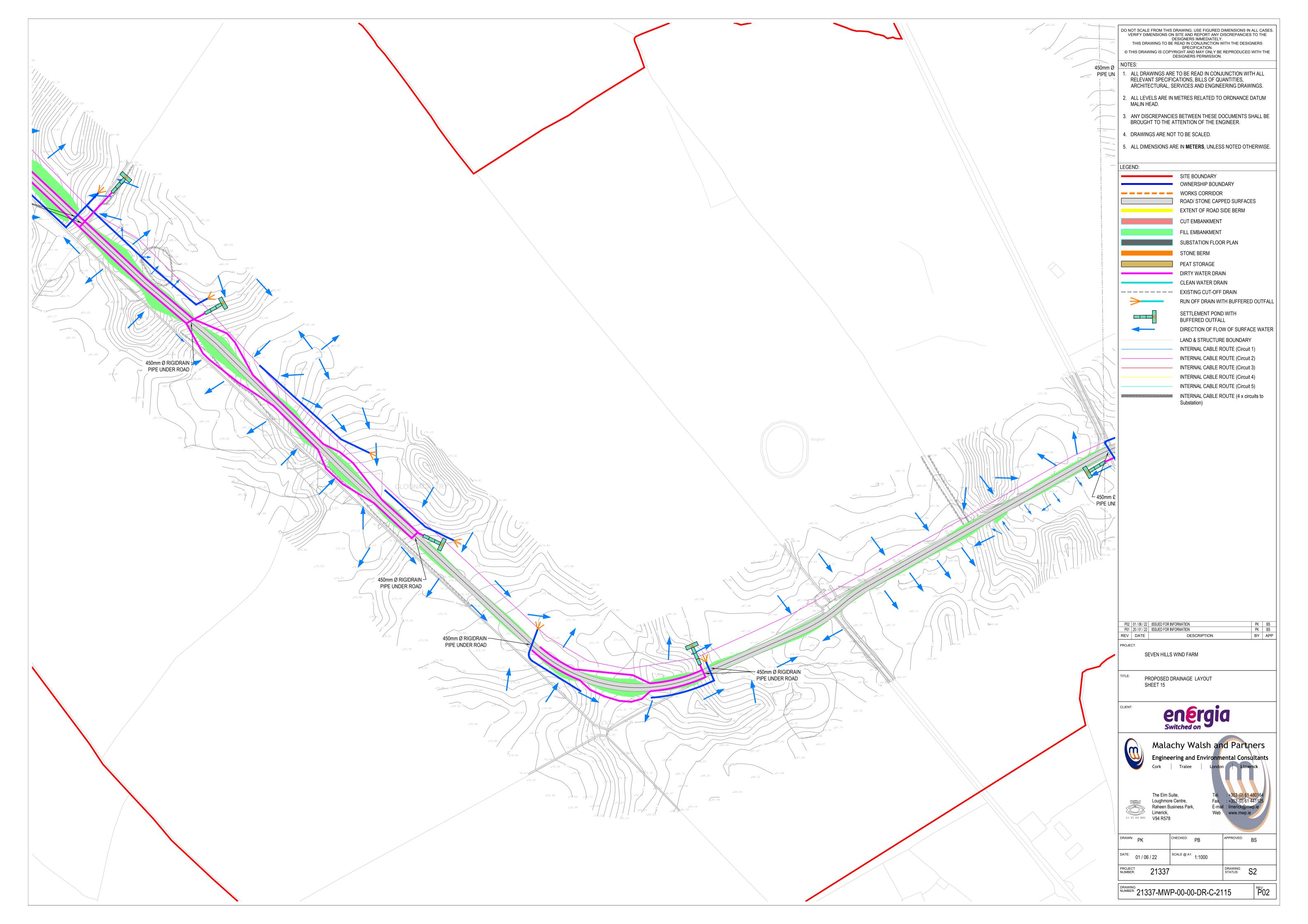


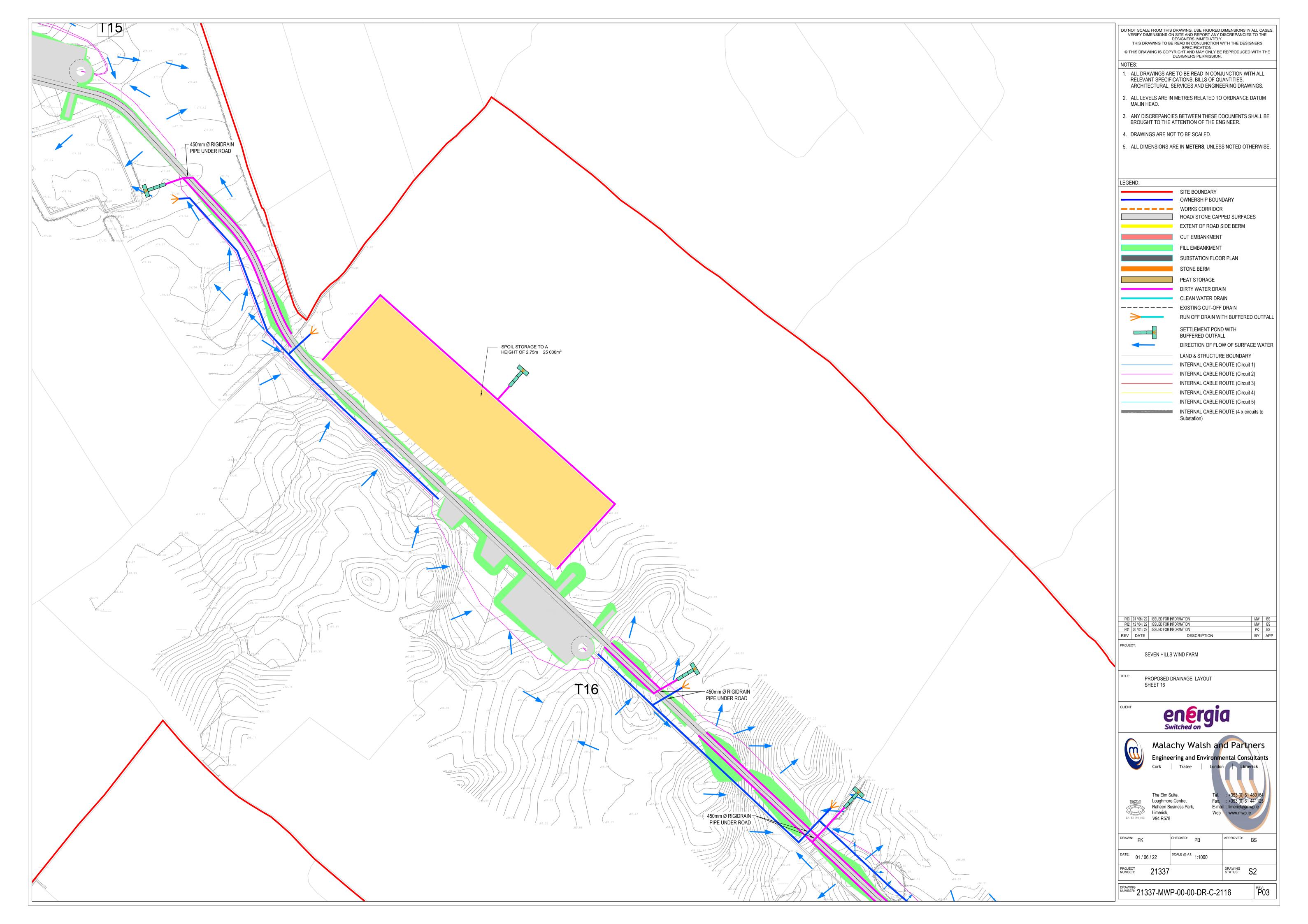


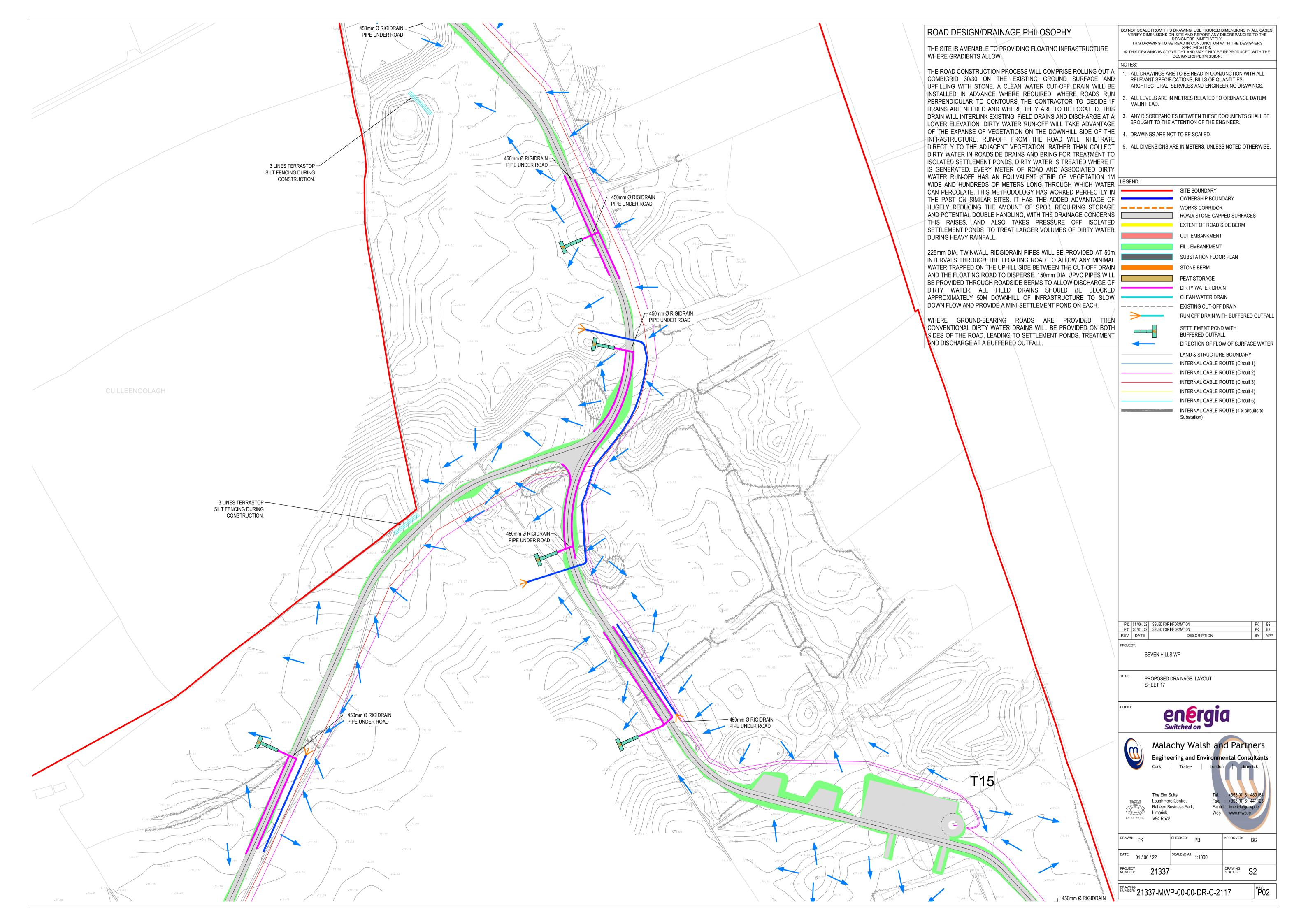




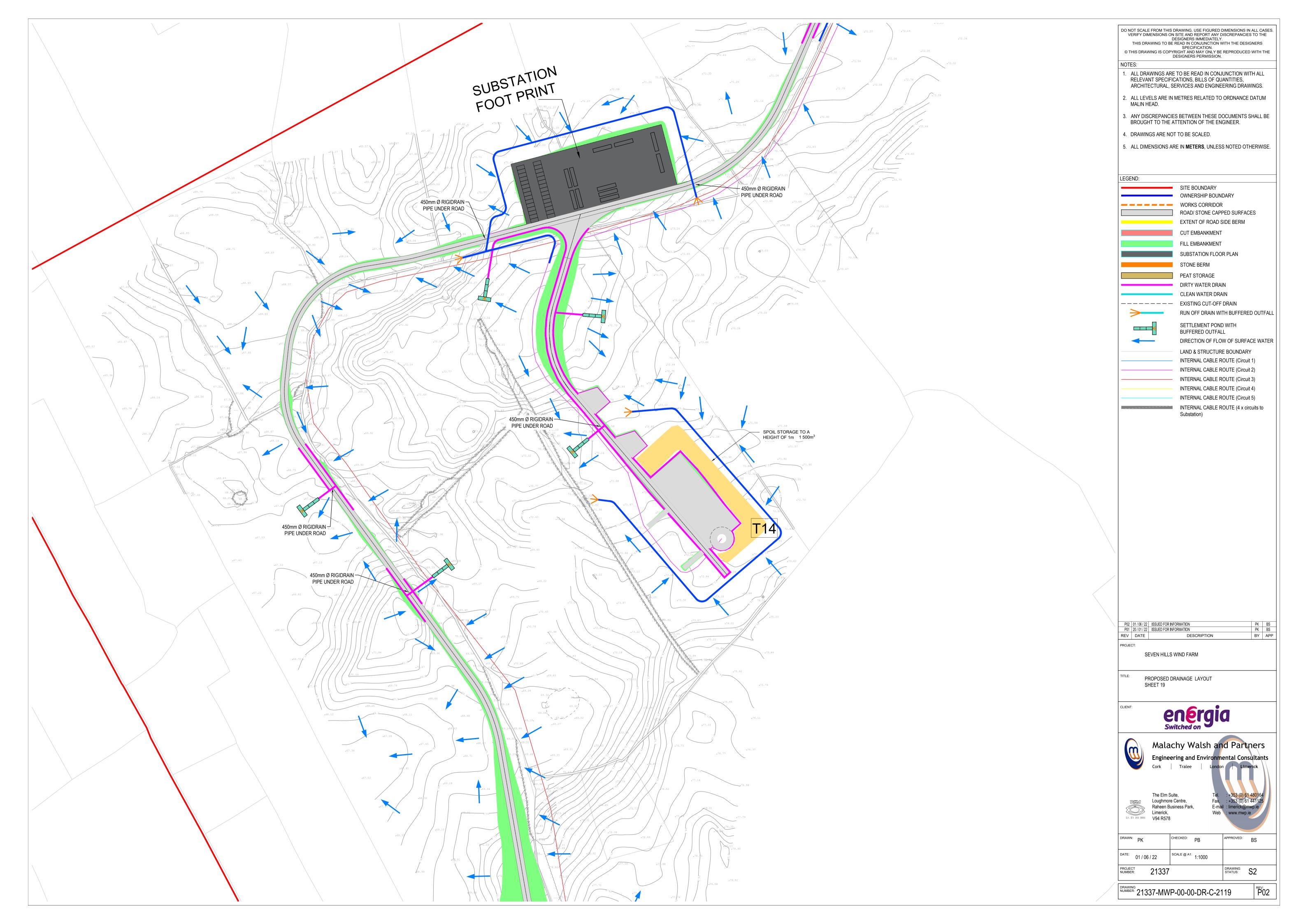


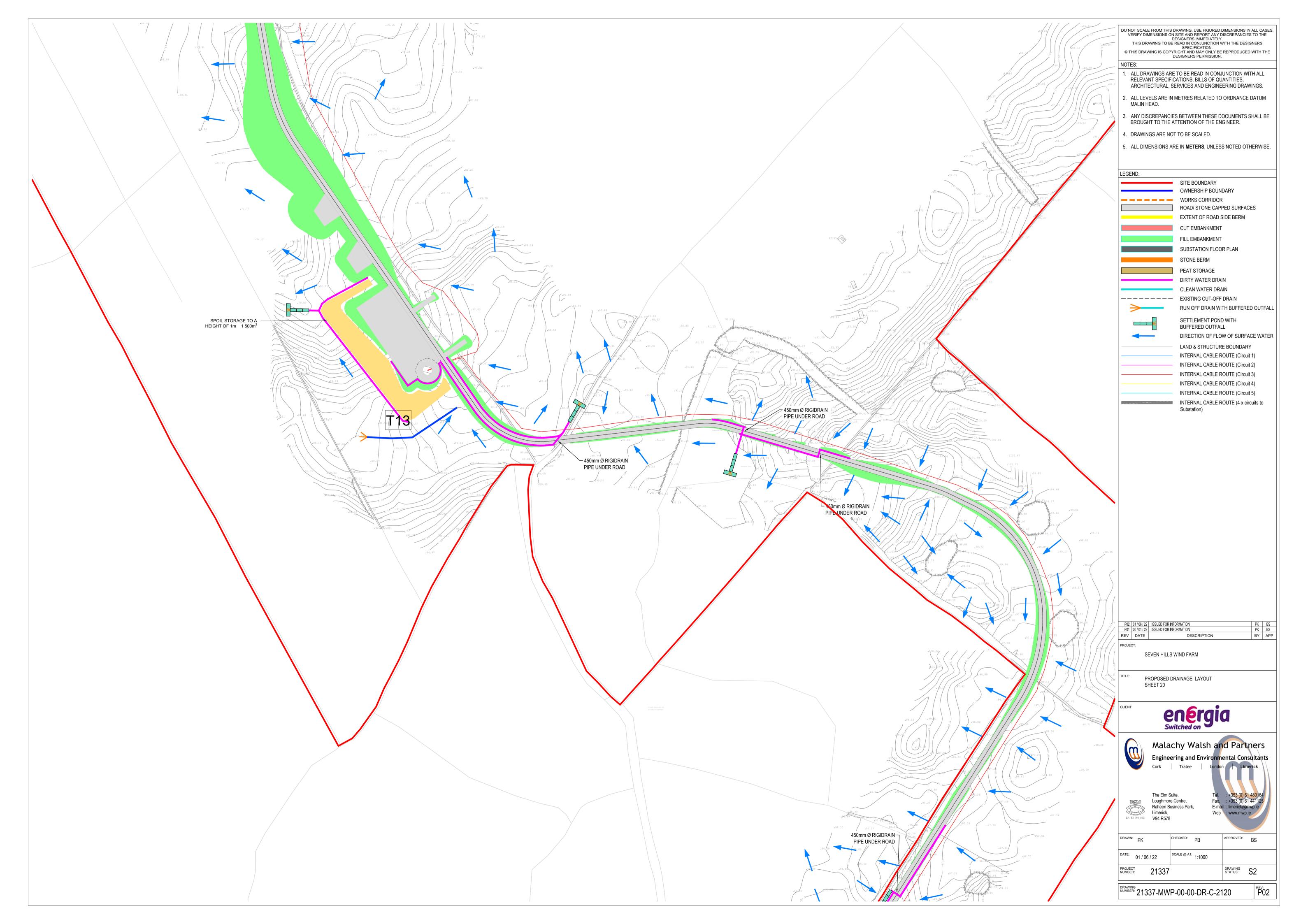


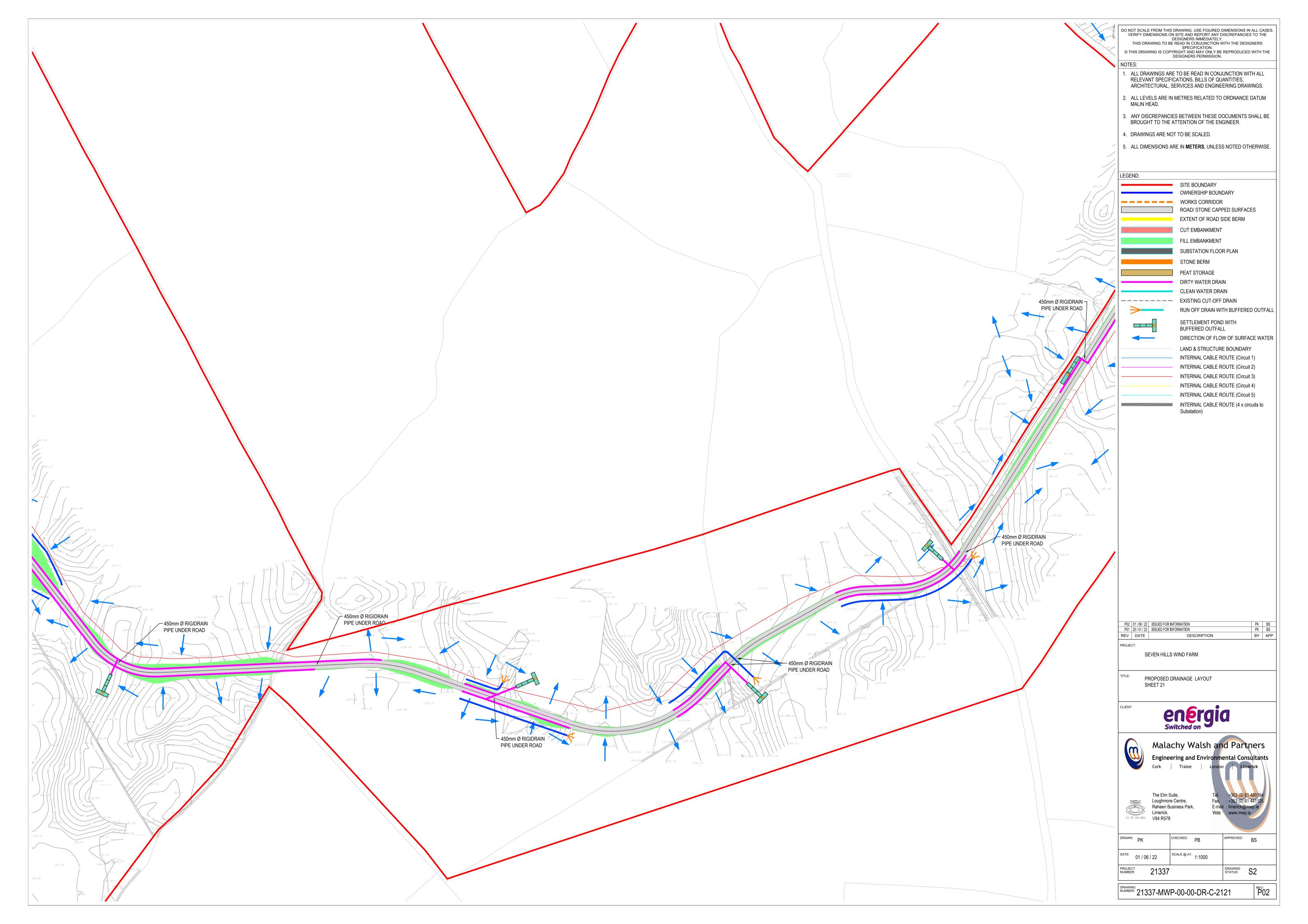


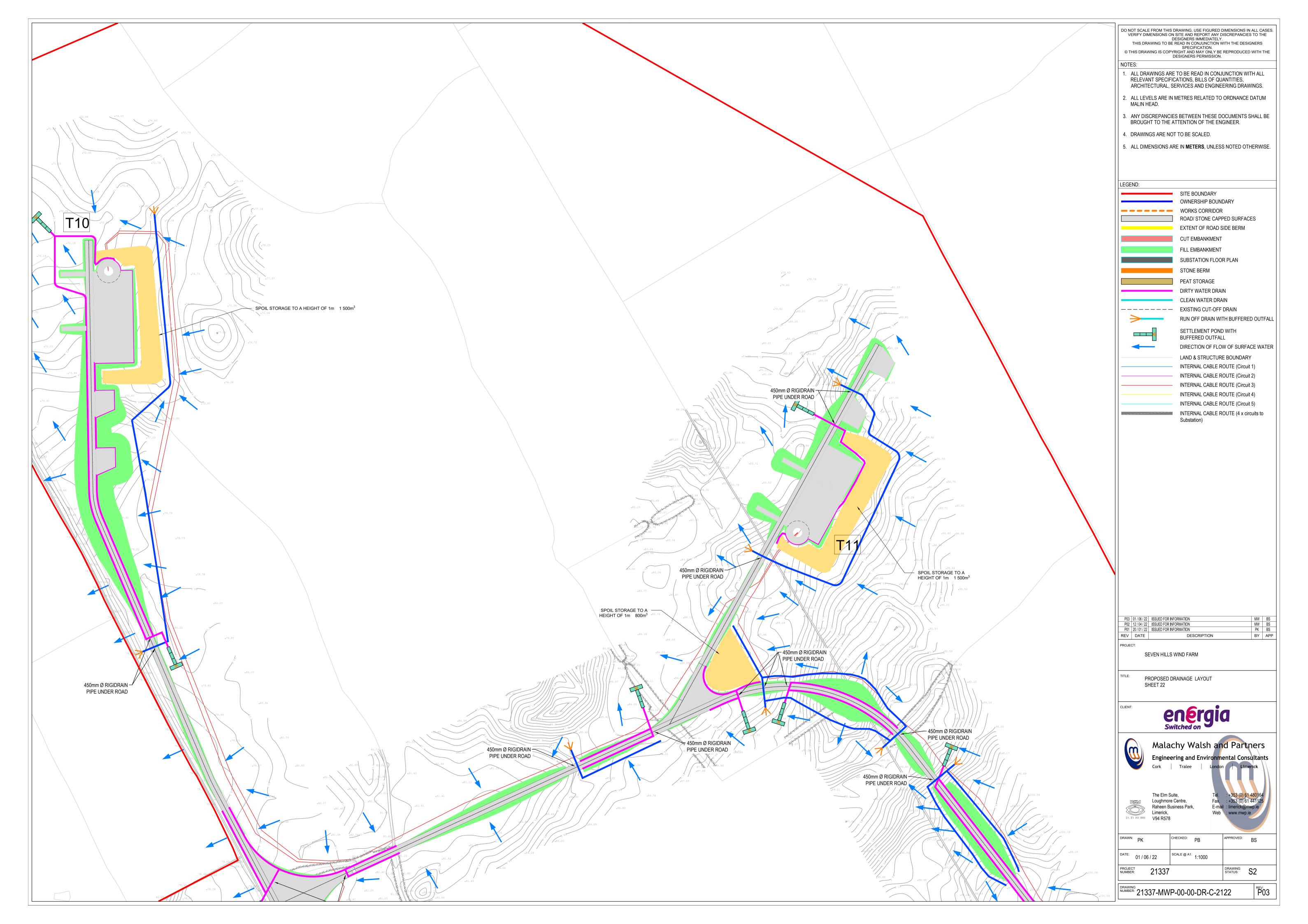


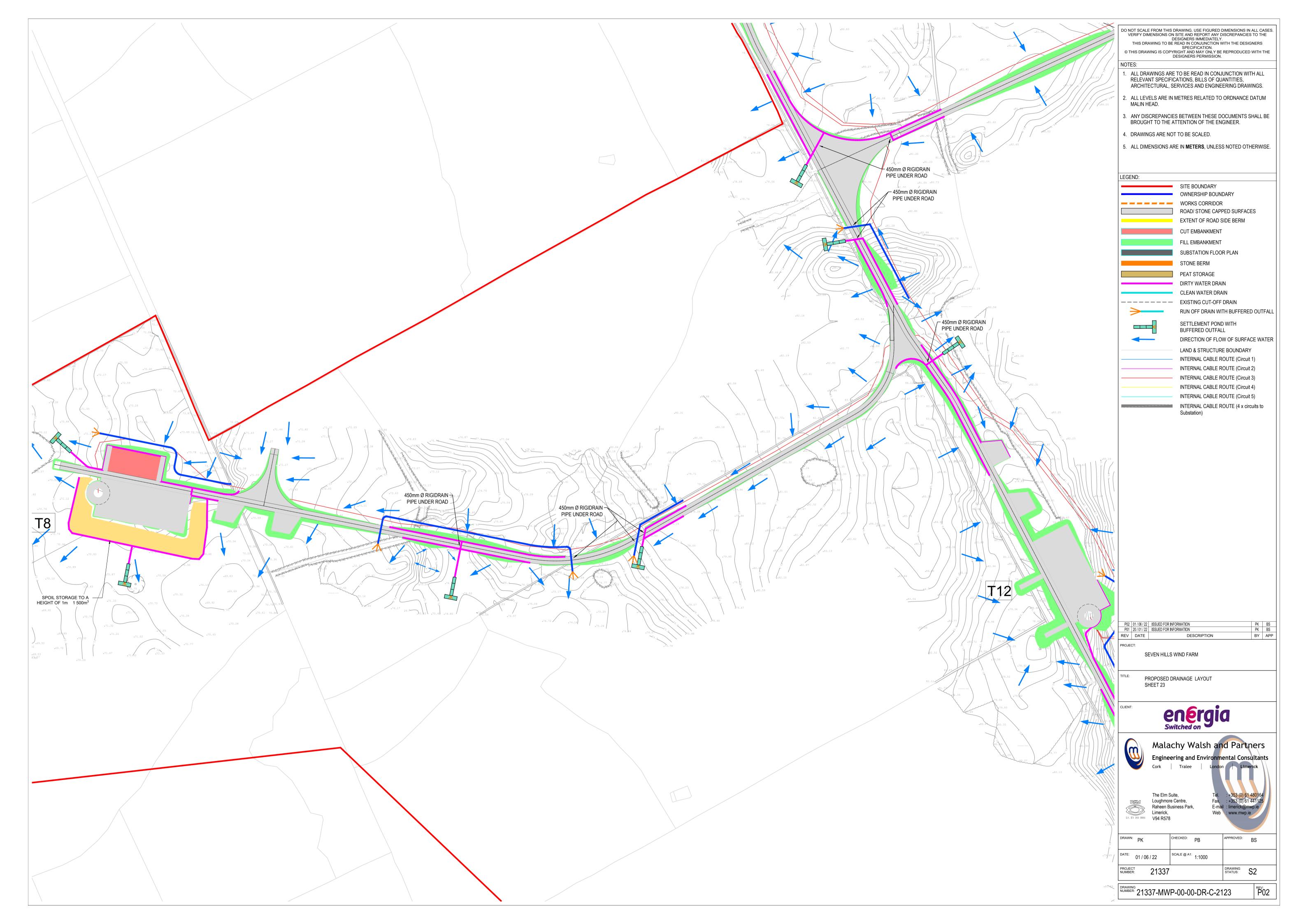


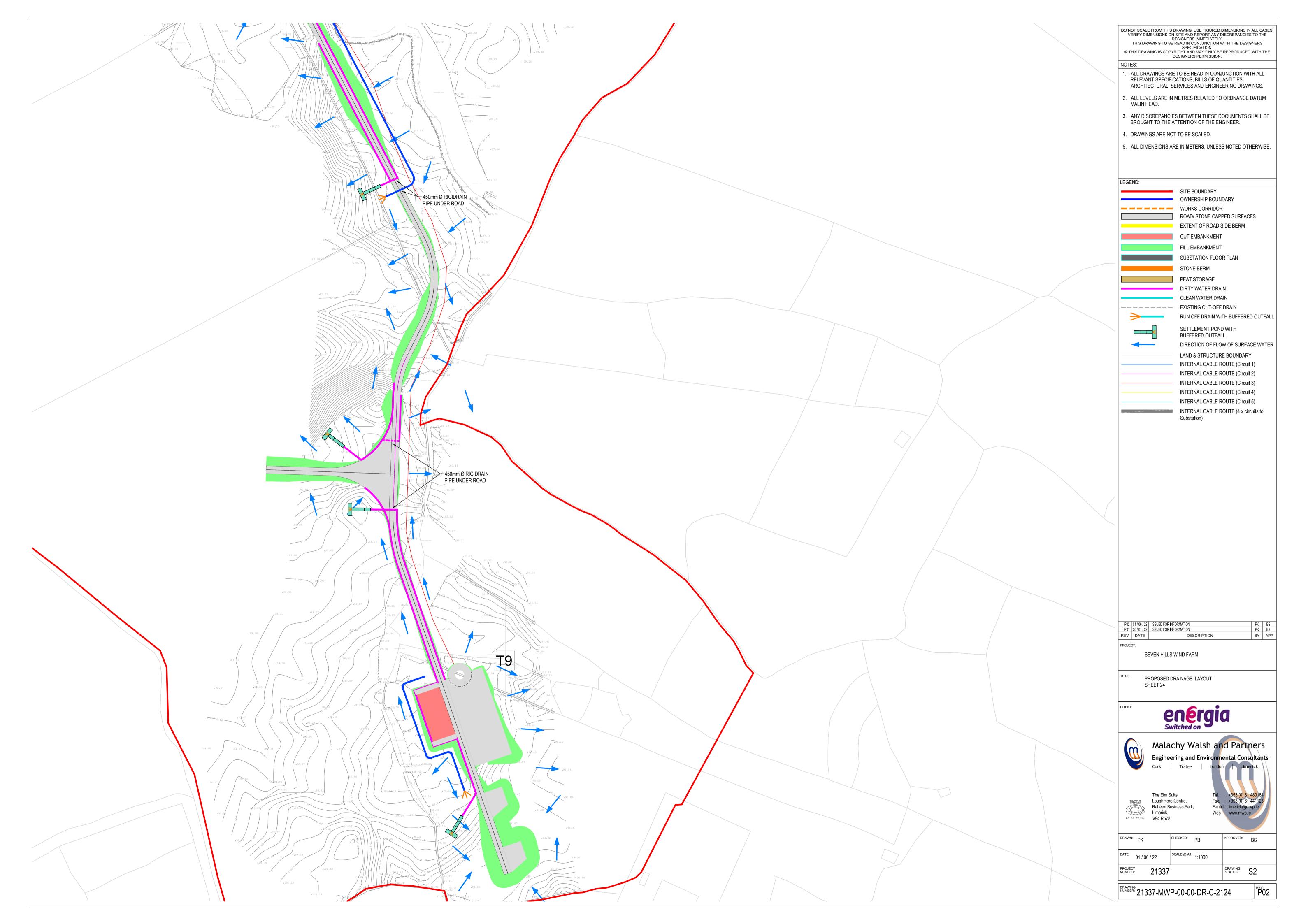


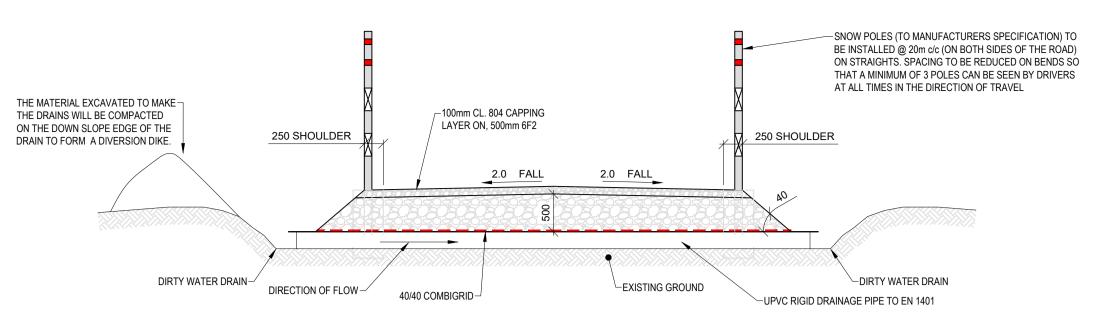




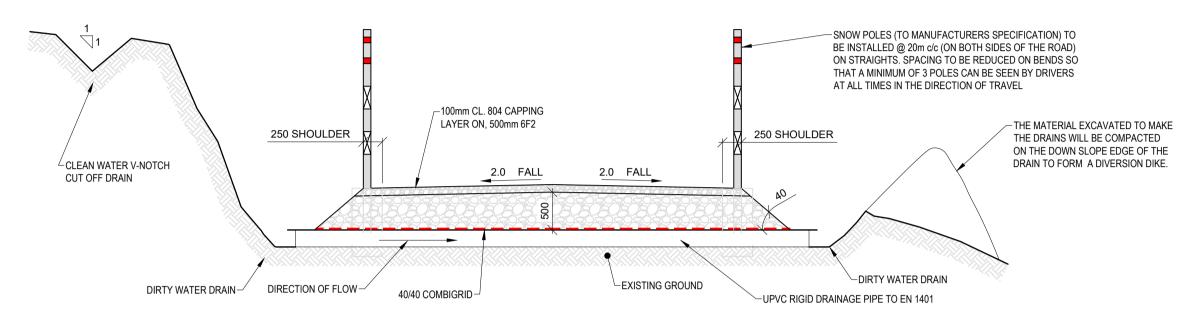




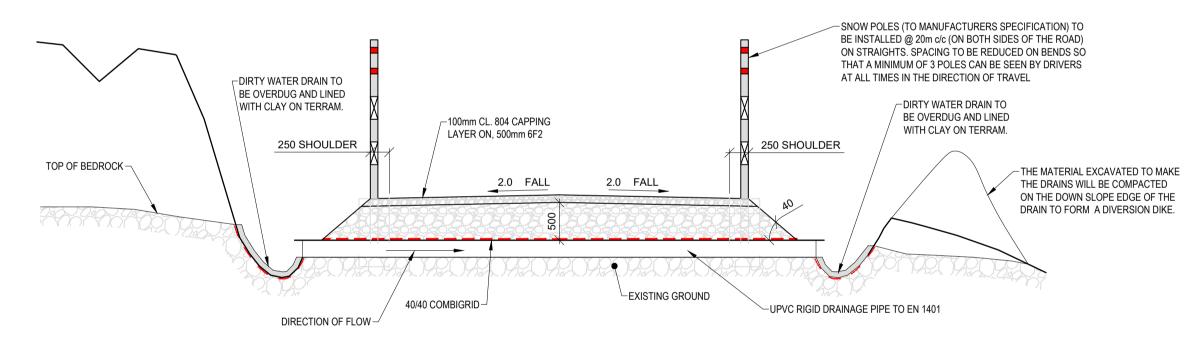




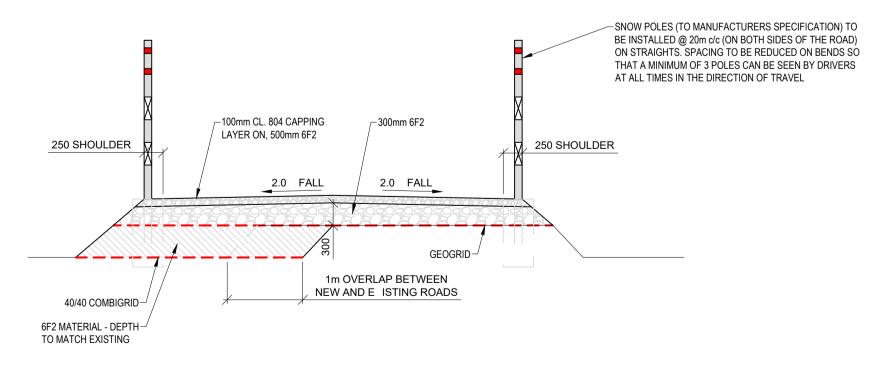
GROUND BEARING ROAD DETAIL (FLAT GROUND)



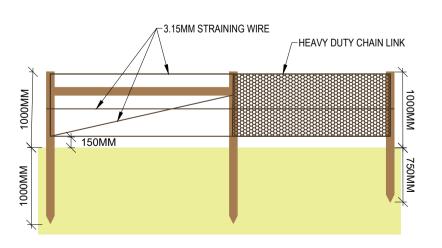
GROUND BEARING ROAD DETAIL (SLOPING GROUND NO BEDROCK E POSED)



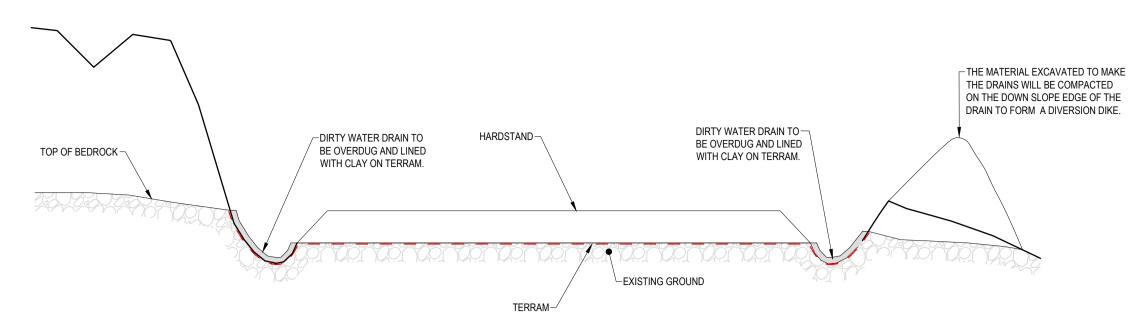
GROUND BEARING ROAD DETAIL (SLOPING GROUND BEDROCK E POSED) SCALE 1:50



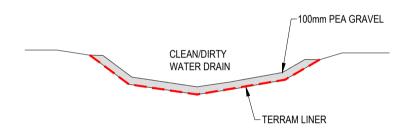
WIDENED ACCESS TRACK DETAIL SCALE 1:50



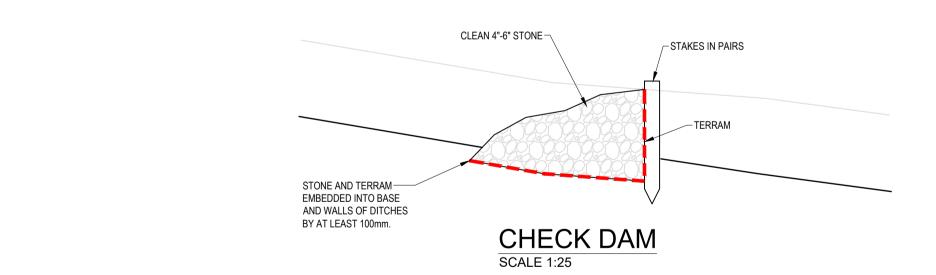
STOCK PROOF FENCING DETAILS SCALE 1:50



GROUND BEARING HARDSTAND DETAIL (SLOPING GROUND BEDROCK E POSED)



EROSION CONTROL ON STEEPER LOCATIONS(GRADIENT IS STEEPER THAN 10 SCALE NTS



STAGE 1 (COURSE) SILT FENCE WILL CONSIST OF A GEOTEXTILE FABRIC SUCH AS TERRAM 1000 ATTACHED BY STAPLES TO FIXED STAKES. THE TERRAM SHEETS WILL

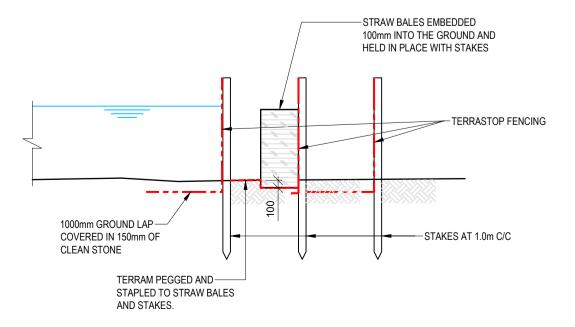
BE FOLDED IN AN L-SHAPE WITH 1m EXTENDING HORIZONTALLY IN TOWARDS THE WORKS AREA. THIS HORIZONTAL SECTION WILL BE BURIED AT A DISTANCE OF

APPROXIMATELY 150mm BENEATH A CLEAN STONE SURFACE, TERRAM 1000 IS A

PERMEABLE FABRIC THROUGH WHICH WATER CAN PASS, BUT SEDIMENT PARTICLES
CANNOT. IT DOES HOWEVER, IMPEDE WATER FLOW AND CAN LEAD TO BACKING UP

STAGE 2 (MEDIUM) SILT FENCE WILL CONSIST OF STRAW BALES, EMBEDDED 100mm INTO THE SOIL/GROUND AND FIXED IN PLACE WITH STAKES, A GEOTEXTILE FABR WILL BE PEGGED AND STAPLED TO THE STRAW BALES AND STAKES.

STAGE 3 (FINE) SILT FENCE WILL BE SIMILAR TO THE STAGE 1 FENCE, WITH THE ADDITION OF A COARSE SAND AND/OR FINE GRAVEL AT THE BASE OF THE



TERRASTOP FENCING DETAILS SCALE 1:50

DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS IN ALL CASES. VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY.
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2. ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM MALIN HEAD.

BROUGHT TO THE ATTENTION OF THE ENGINEER. 4. DRAWINGS ARE NOT TO BE SCALED.

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3. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE

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 P03
 01/06/22
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 P02
 28/03/22
 ISSUED FOR INFORMATION

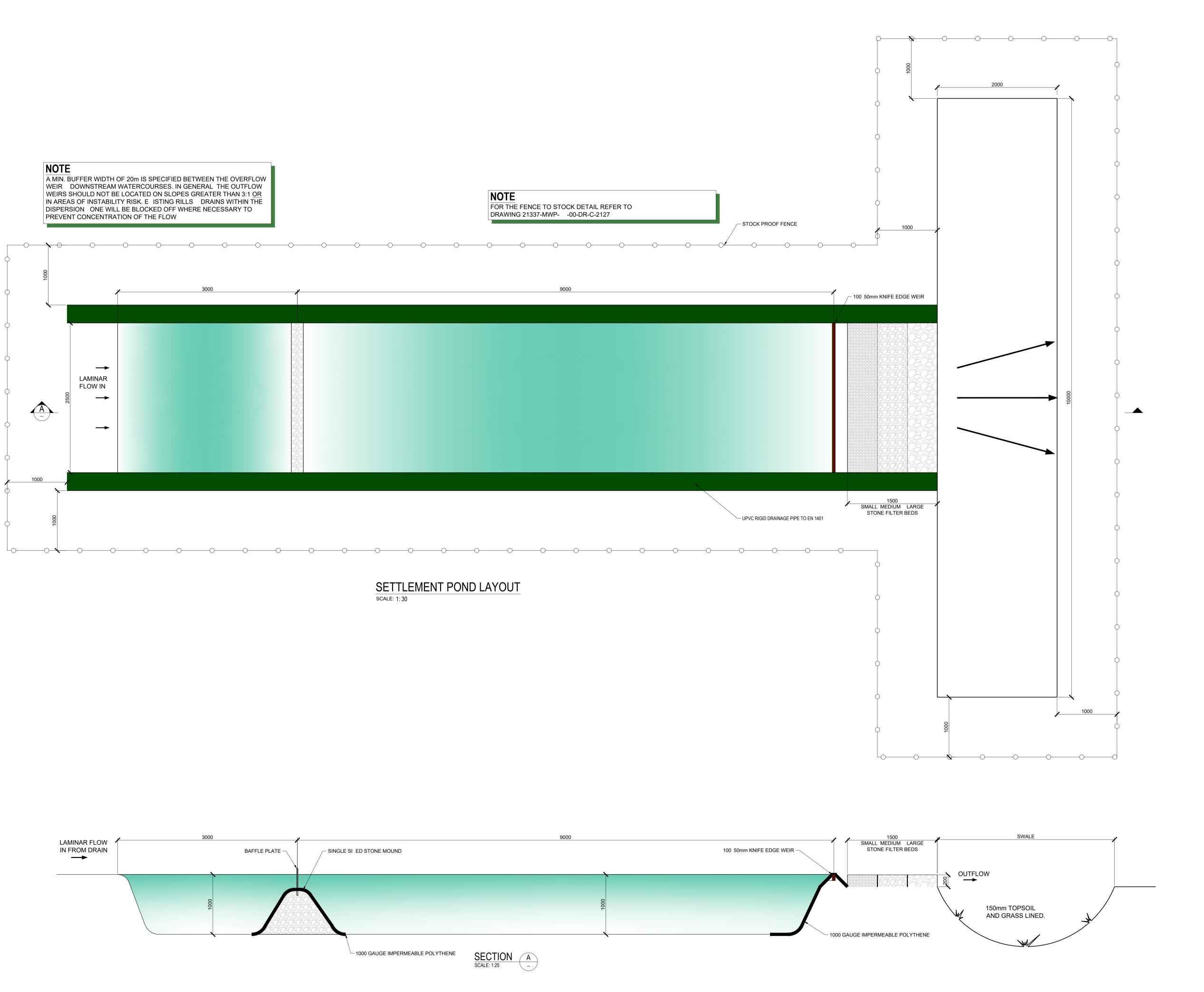
 P01
 20/01/22
 ISSUED FOR INFORMATION
 REV DATE SEVEN HILLS WF TURBINE FOUNDATION, FENCING, ROAD AND DRAINAGE DETAILS energia Switched on Malachy Walsh and Partners **Engineering and Environmental Consultants** The Elm Suite, Loughmore Centre, Raheen Business Park, Limerick,

CHECKED: PB APPROVED: DATE: 01 / 06 / 22 DRAWING STATUS: \$2 21337

DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2127

V94 R578

P03



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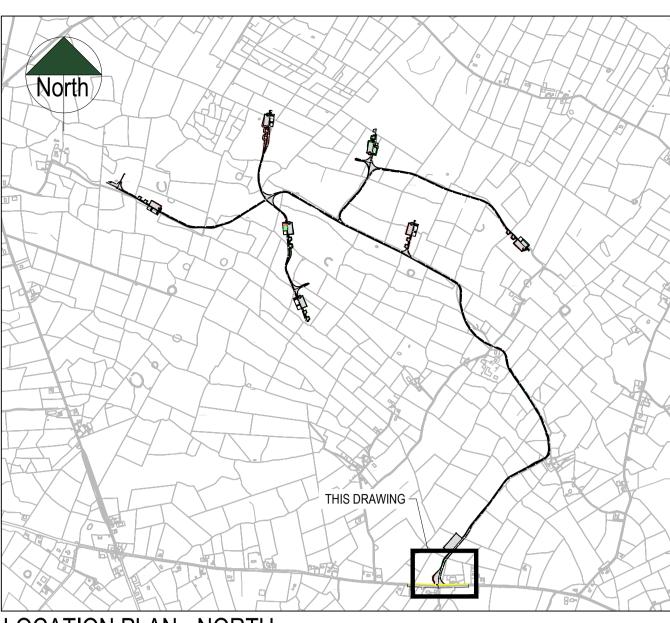
MALIN HEAD. 3. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

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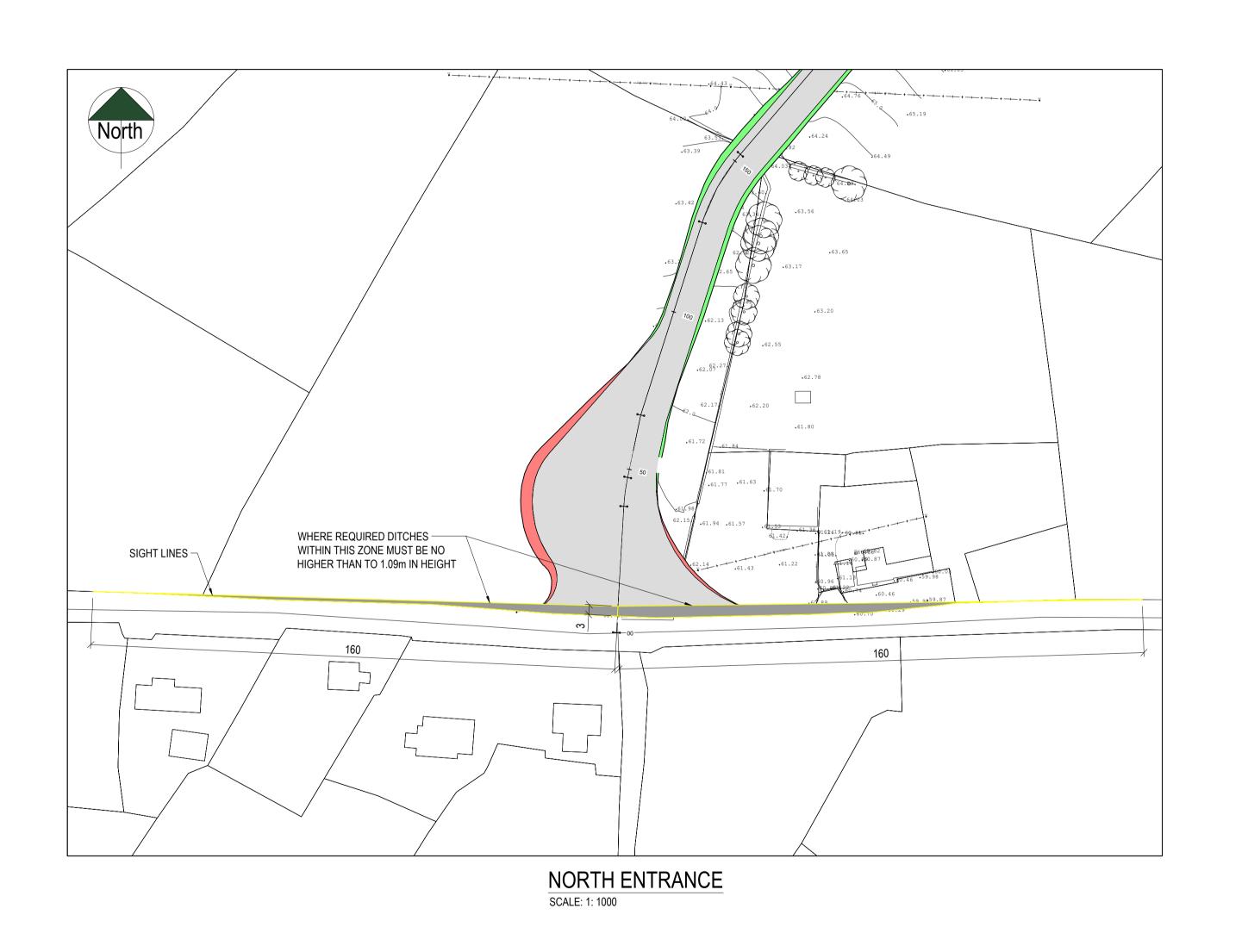
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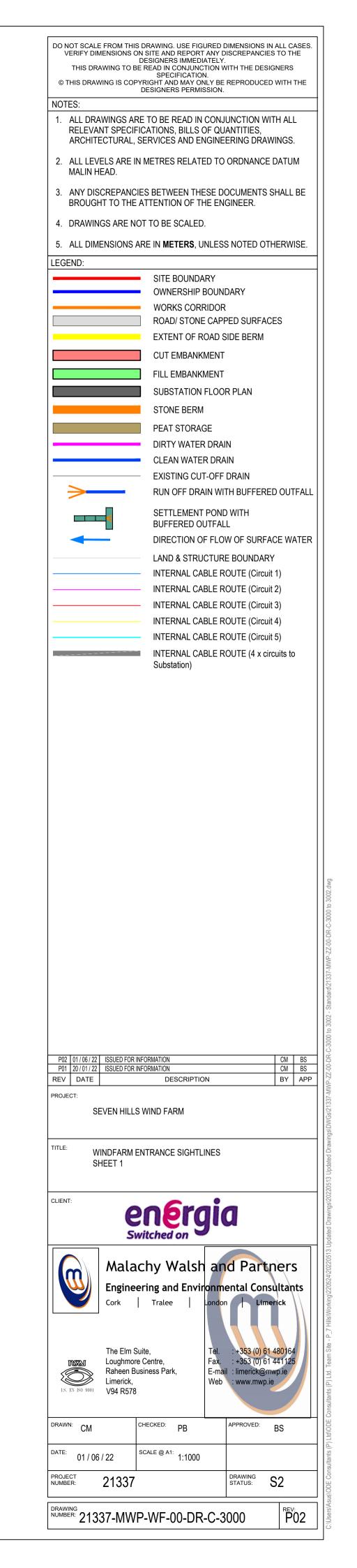
SEVEN HILLS WF GRASS LINED LINEAR SWALE INCLUDING SETTLE MENT POND Engineering and Environmental Consultants The Elm Suite, Loughmore Centre, Raheen Business Park, Limerick, Loughmore of Raheen Bus Limerick, V94 R578 CHECKED: PB APPROVED: BS DATE: 01 / 06 / 22 DRAWING STATUS: S2 DRAWING NUMBER: 21337-MWP-ZZ-00-DR-C-2128 P02

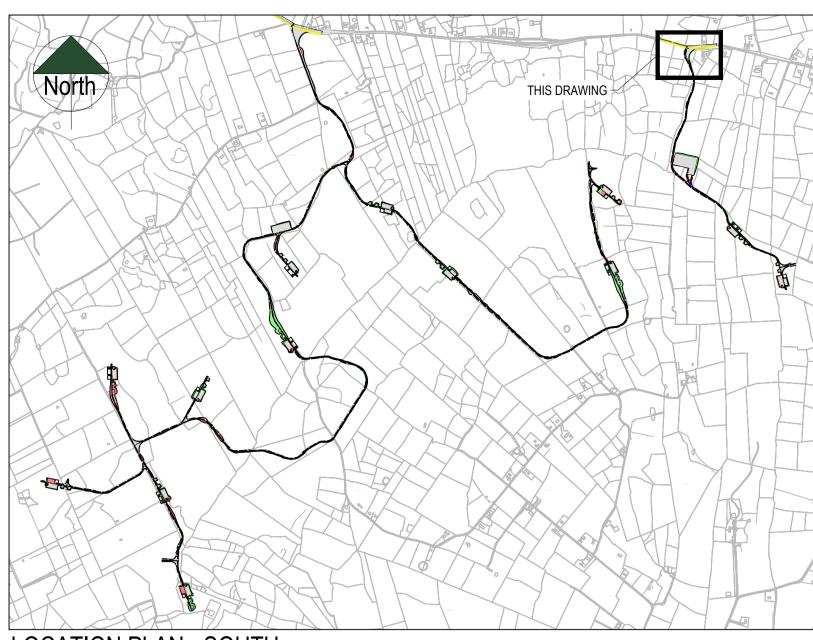


LOCATION PLAN - NORTH

SCALE: 1: 20000





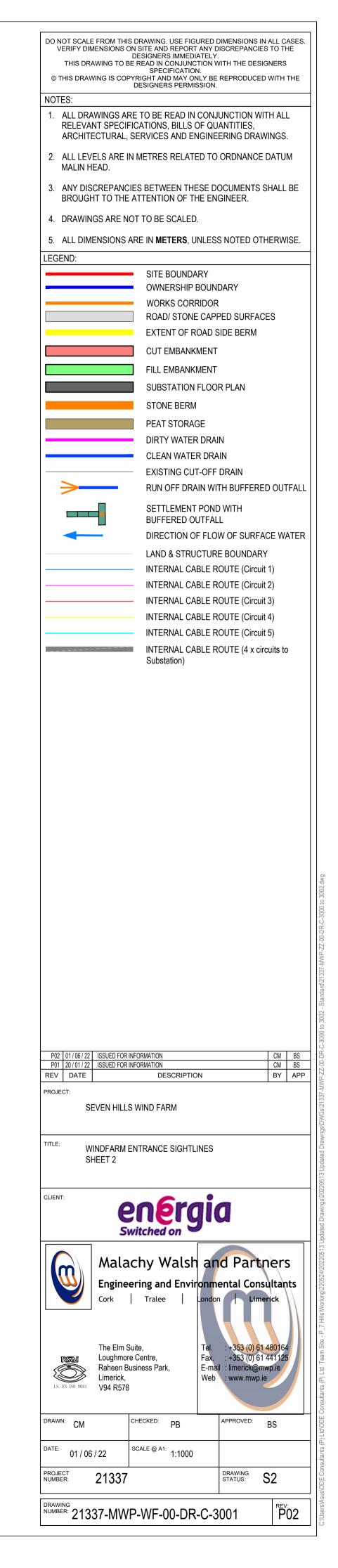


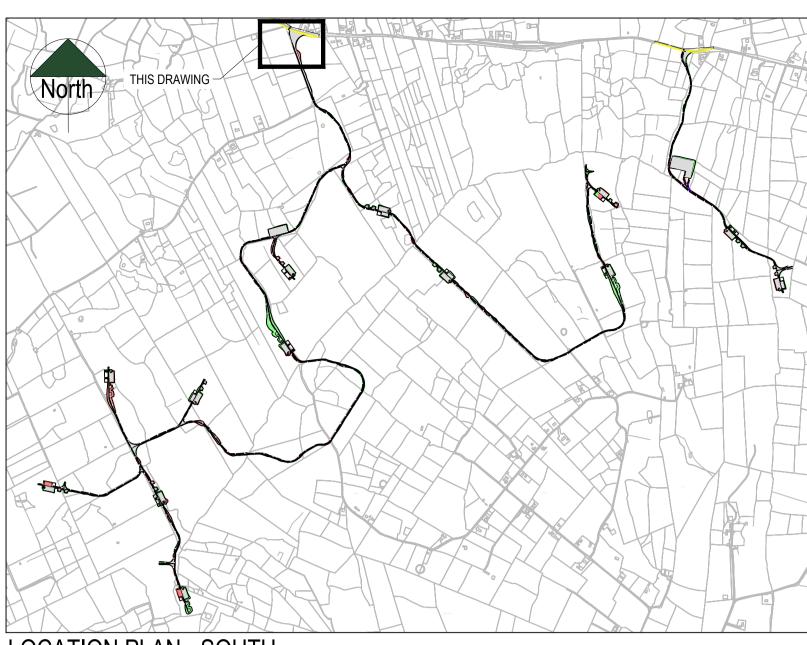
LOCATION PLAN - SOUTH

SCALE: 1: 20000



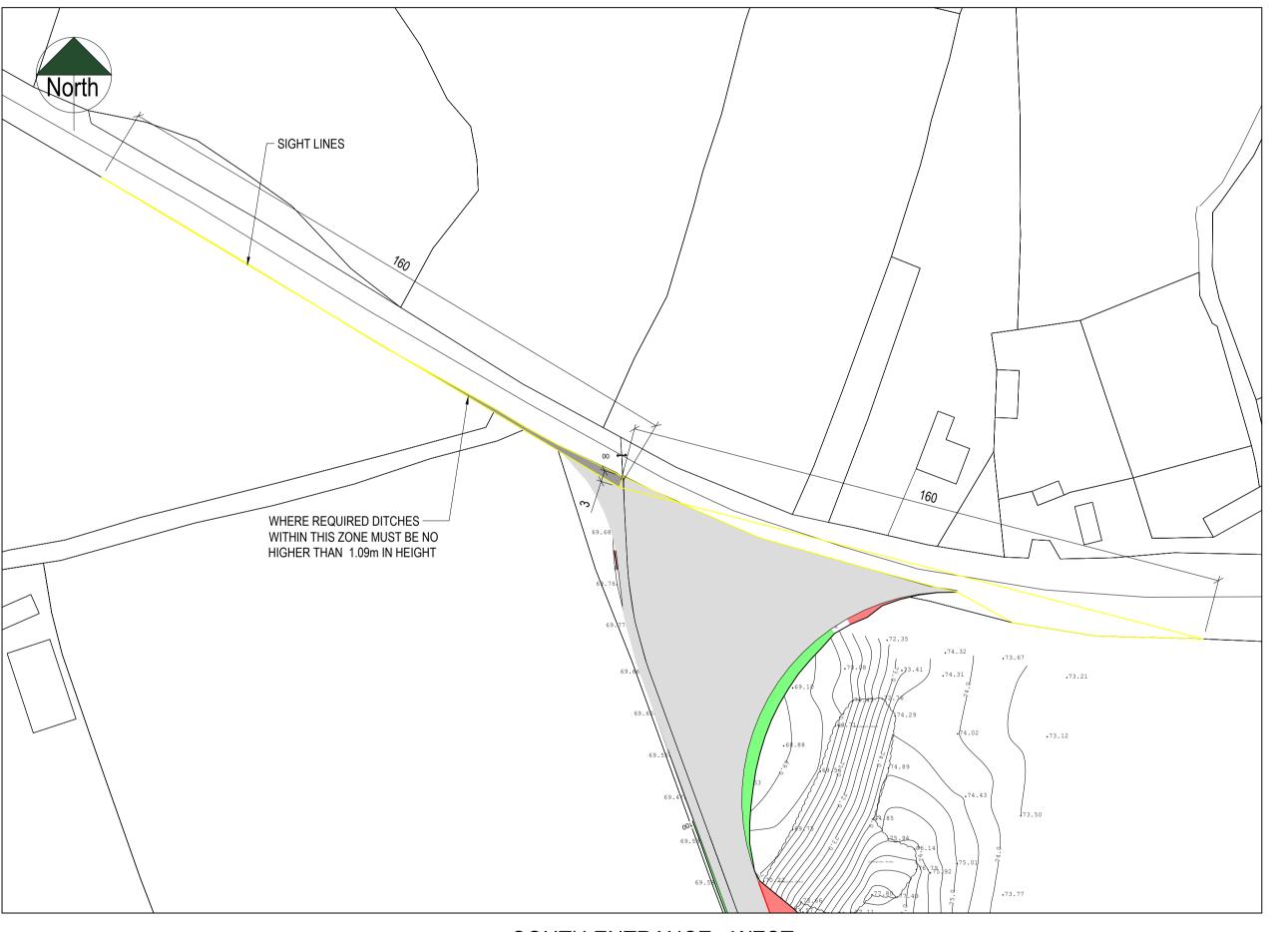
SOUTH ENTRANCE - EAST SCALE: 1: 1000





LOCATION PLAN - SOUTH

SCALE: 1: 20000



SOUTH ENTRANCE - WEST
SCALE: 1: 1000

