

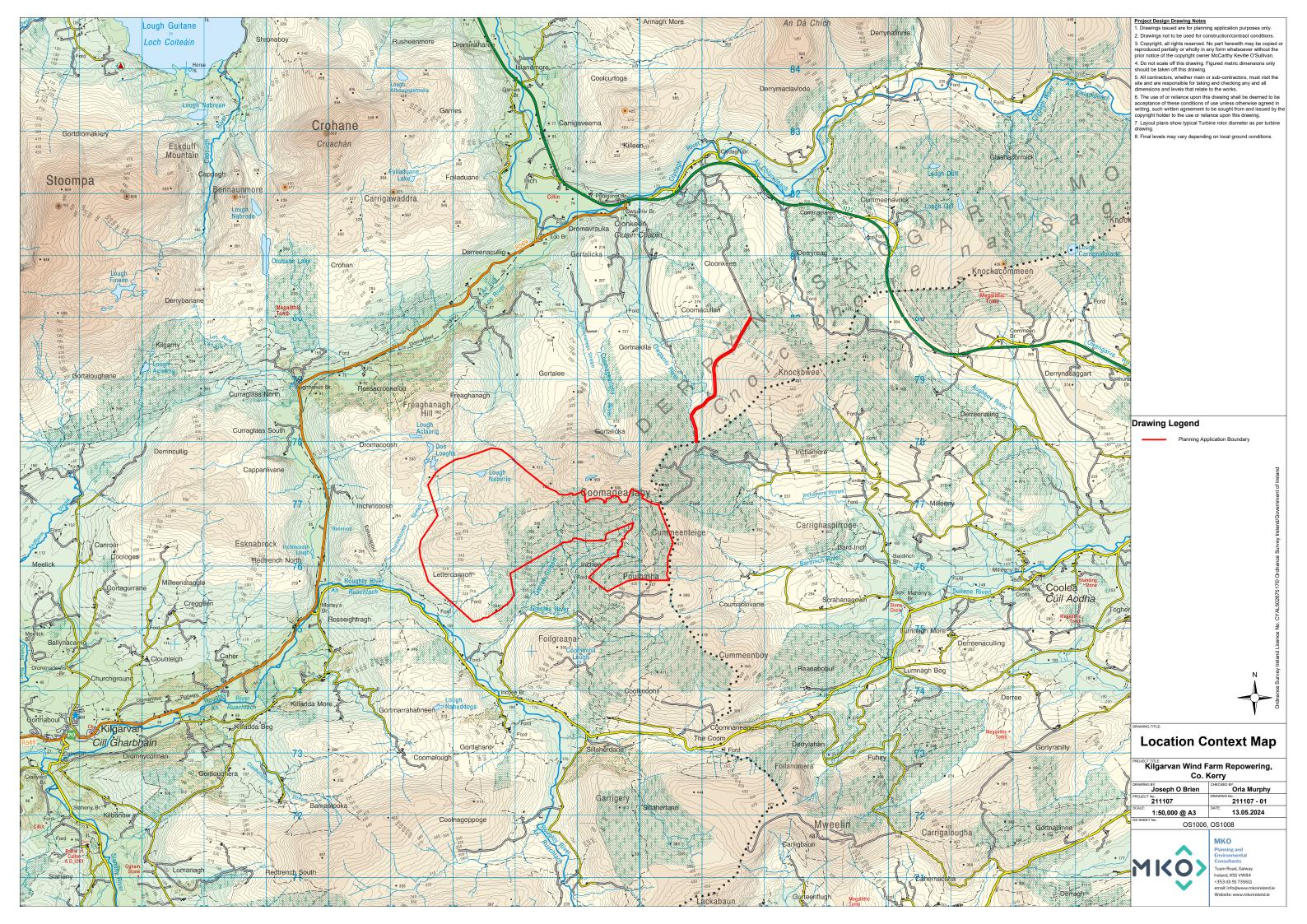
Kilgarvan Wind Farm Repowering, Co. Kerry Planning Permission Application Drawings

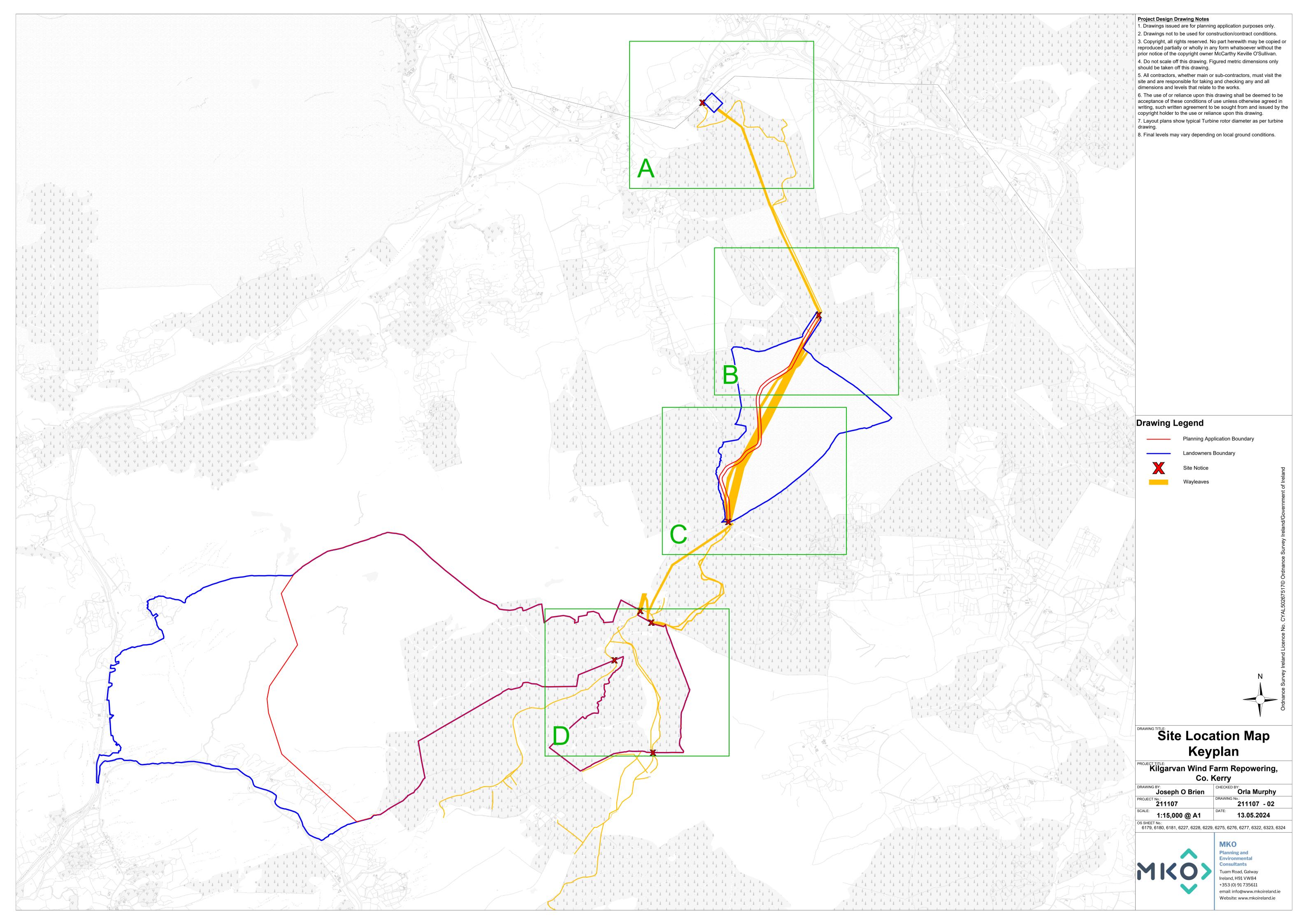




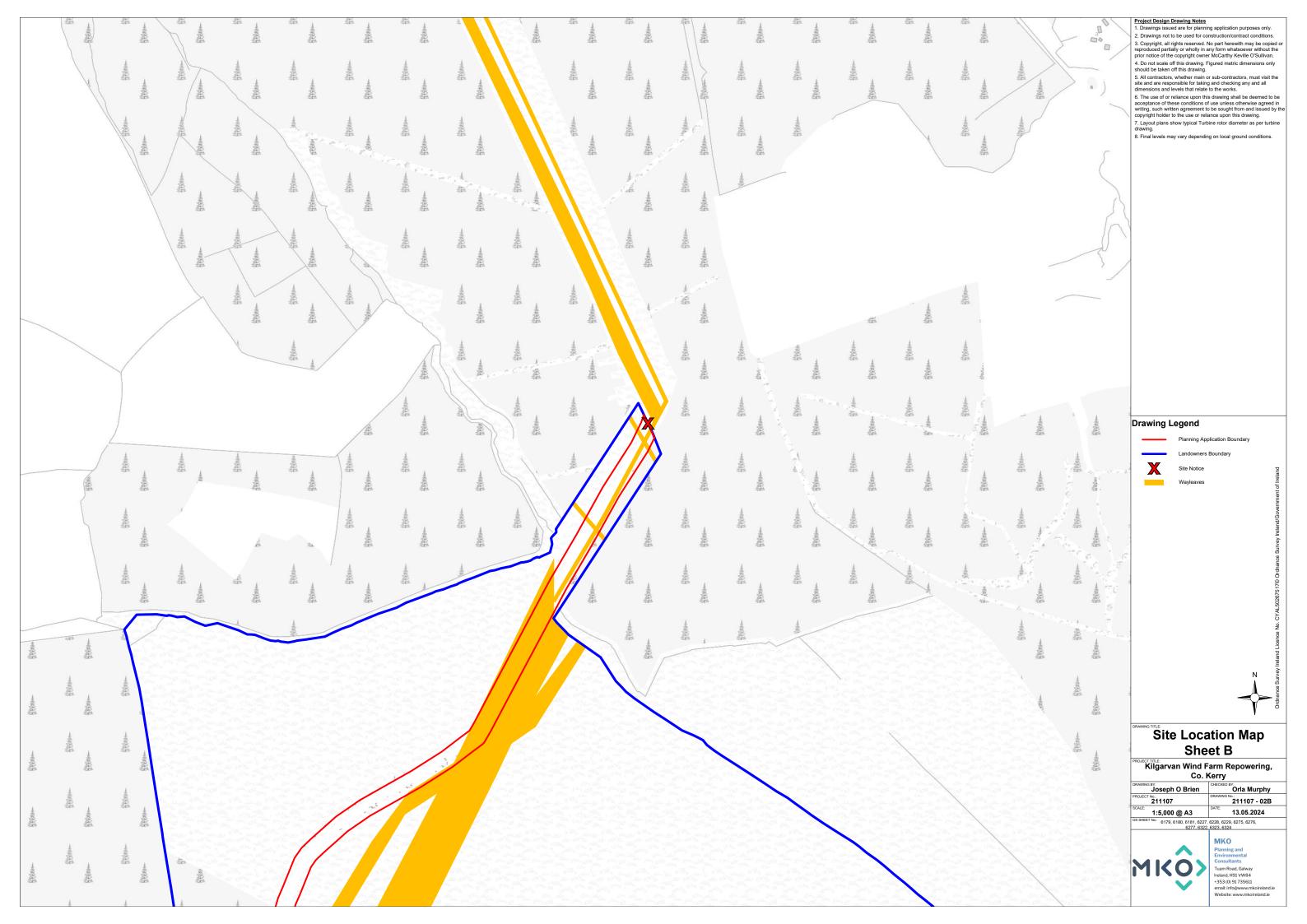
Schedule of Drawings

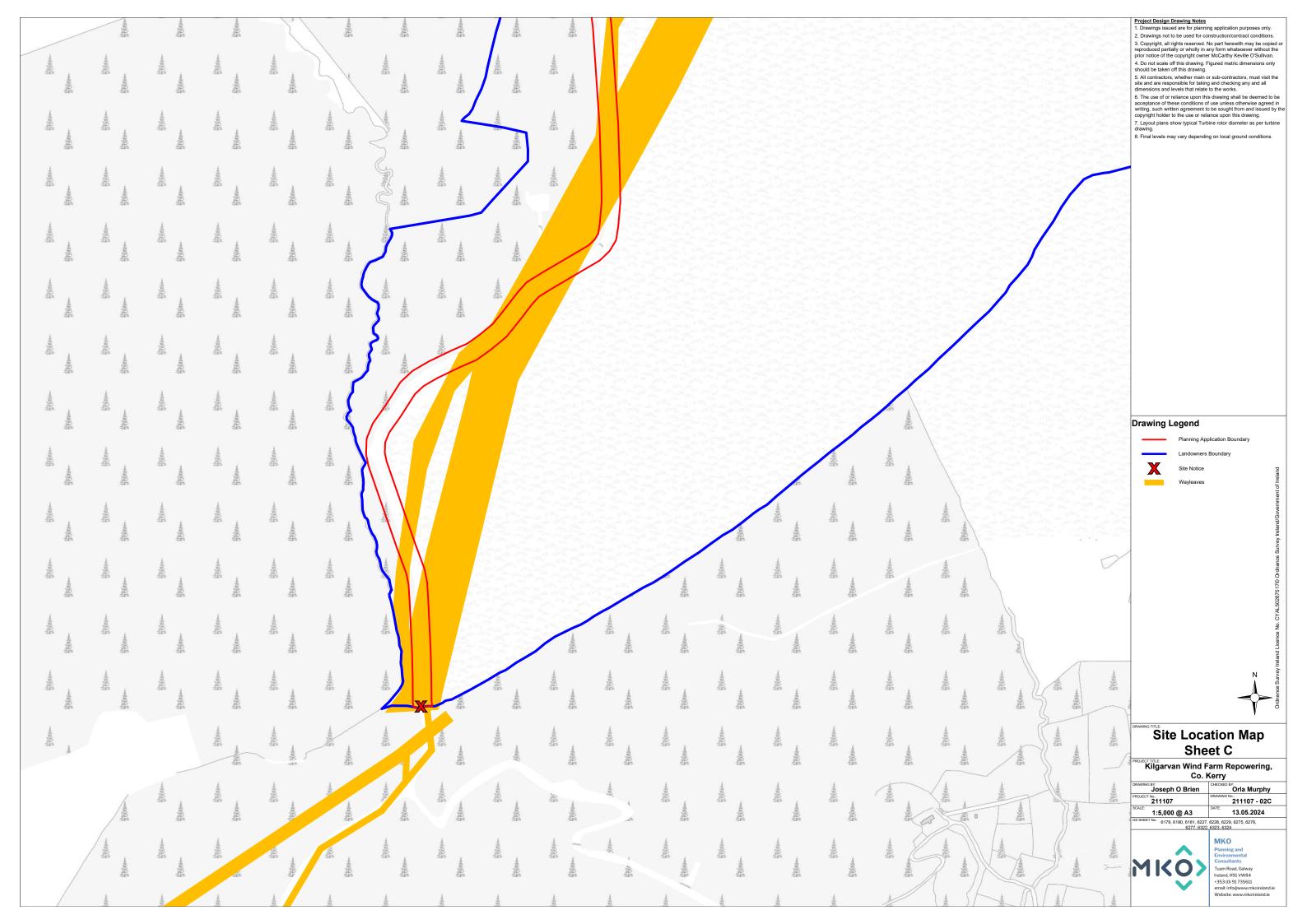
Drawing No.	Drawing Title	Scale	Page Size
211107 – 01	Location Context Map	1: 50,000	A3
211107 – 02	Site Location Map	1: 15,000	A1
211107 – 02a	Site Location Map A	1: 5,000	A3
211107 – 02b	Site Location Map B	1: 5,000	A3
211107 – 02c	Site Location Map C	1: 5,000	A3
211107 – 02d	Site Location Map D	1: 5,000	A3
211107 – 03	Site Layout Key Plan (1:5,000)	1: 15,000	A1
211107 – 04	Site Layout Plan Sheet 1 of 3	1: 5,000	A1
211107 – 05	Site Layout Plan Sheet 2 of 3	1: 5,000	A1
211107 – 06	Site Layout Plan Sheet 3 of 3	1: 5,000	A1
211107 – 07	Site Layout Key Plan (1:2,500)	1: 15,000	A1
211107 – 08	Site Layout Plan Sheet 1 of 8	1: 2,500	A1
211107 - 09	Site Layout Plan Sheet 2 of 8	1: 2,500	A1
211107 – 10	Site Layout Plan Sheet 3 of 8	1: 2,500	A1
211107 – 11	Site Layout Plan Sheet 4 of 8	1: 2,500	A1
211107 – 12	Site Layout Plan Sheet 5 of 8	1: 2,500	Al
211107 – 12	Site Layout Plan Sheet 6 of 8		Al
211107 – 13		1: 2,500	
	Site Layout Plan Sheet 7 of 8	1: 2,500	A1
11107 - 15	Site Layout Plan Sheet 8 of 8	1: 2,500	A1
11107 - 16	Turbine 1 Layout	1:500	A3
11107 – 17	Turbine 2 Layout	1:500	A3
11107 – 18	Turbine 3 Layout	1:500	A3
211107 – 19	Turbine 4 Layout	1:500	A3
11107 – 20	Turbine 5 Layout	1:500	A3
11107 – 21	Turbine 6 Layout	1:500	A3
11107 – 22	Turbine 7 Layout	1:500	A3
211107 – 23	Turbine 8 Layout	1:500	A3
11107 – 24	Turbine 9 Layout	1:500	A3
11107 – 25	Turbine 10 Layout	1:500	A3
11107 – 26	Turbine 11 Layout	1:500	A3
211107 – 27	Wind Turbine Range Elevations & Plan	1:500	A1
211107 – 28	122.5m hub and 77.5m blade Wind Turbine Elevations & Plan	1:500	A1
11107 – 29	118m hub and 81.5m blade Wind Turbine Elevations & Plan	1:500	A1
211107 – 30	125m hub and 74.5m blade Wind Turbine Elevations & Plan	1:500	A1
11107 – 31	Temporary Construction Compound 1	1:500	A3
11107 – 32	Temporary Construction Compound 2	1:500	A3
11107 – 33	Met Mast - FreeStanding Mast	1:500	A3
11107 – 34	Existing Site	1: 20,000	A3
11107 – 35	Proposed Infrastructure	1: 20,000	A3
11107 – 36	Signage Detail	1:20	A3
11107 - 37	Site Office & Staff Facilities Detail	1:50	A3
11107 - 39	33kV Cable Trench Sections	1:10	A3
11107 - 39	33kV Cable Trench Section	1:20	A3
Drawing No.	Drawing Title	Scale	Page Size
2022 GDG ZZ -XX DR C 0001-FI-01	Borrow pit plan and sections	As shown	A1
2022 GDG ZZ XX DR C 0010-FI-00	Cross sectionThrough general access track details	1:25	A1
0101	Proposed Drainage Layout	1:2,000	A1
0102	Proposed Drainage Layout	1:2,000	A1
0103	Proposed Drainage Layout	1:2,000	A1
0104	Proposed Drainage Layout	1:2,000	A1
0105	Proposed Drainage Layout	1:2,000	A1
0106	Proposed Drainage Layout	1:2,000	Al
0107	Proposed Drainage Layout	1:2,000	Al
0108	Proposed Drainage Layout Proposed Drainage Layout	1:2,000	Al
D501	Drainage Details 1	As Shown	Al
		As Shown As Shown	
0502	Drainage Details 2		Al
D503	Drainage Details 3 Proposed Substation Compound – Elevation View Option 2	As Shown 1:70	A1 A1

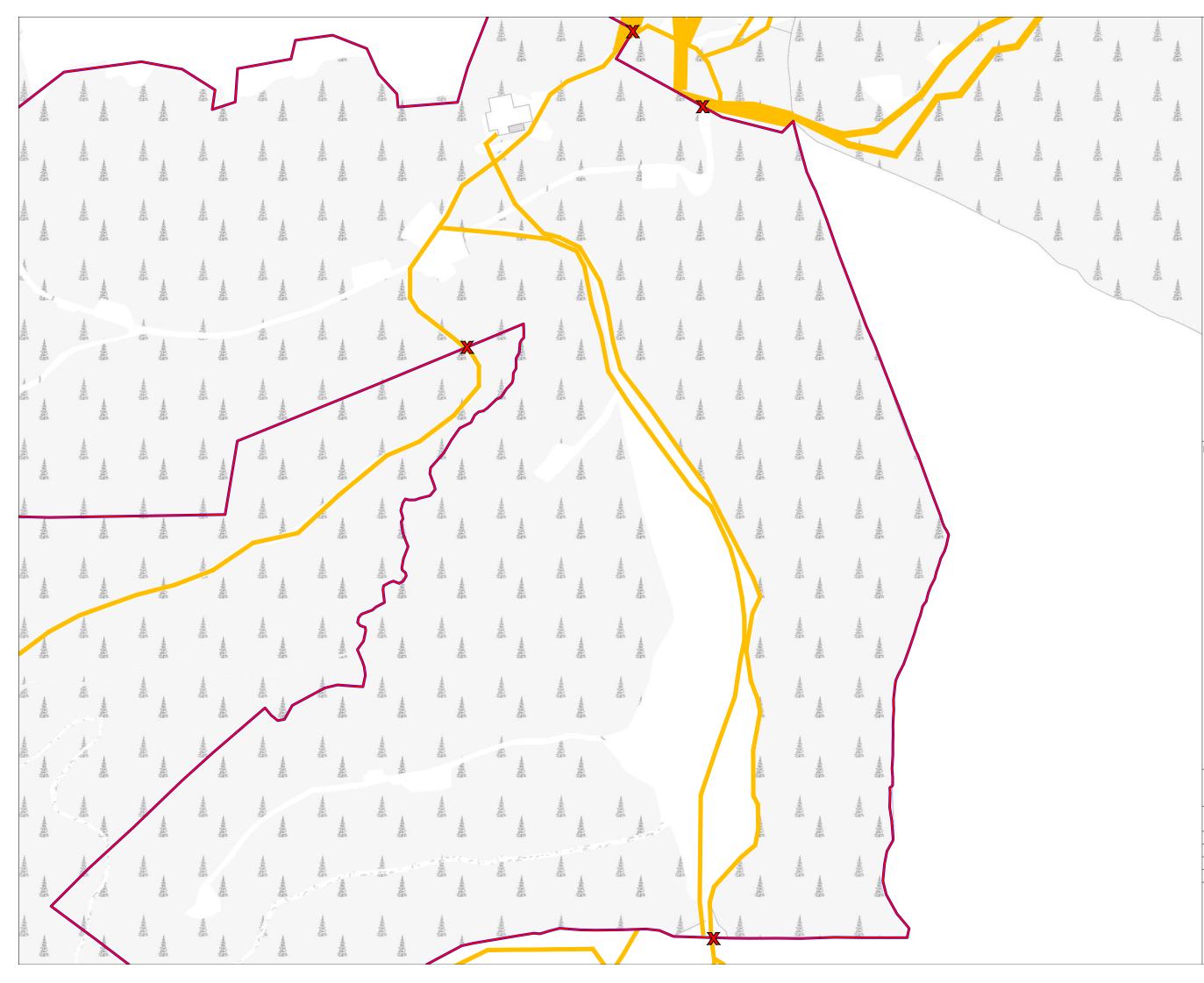












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 7. Layout plans show typical Turbine rotor diameter as per turbine
 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

Drawing Legend



Landowners Boundary Site Notice

Planning Application Boundary

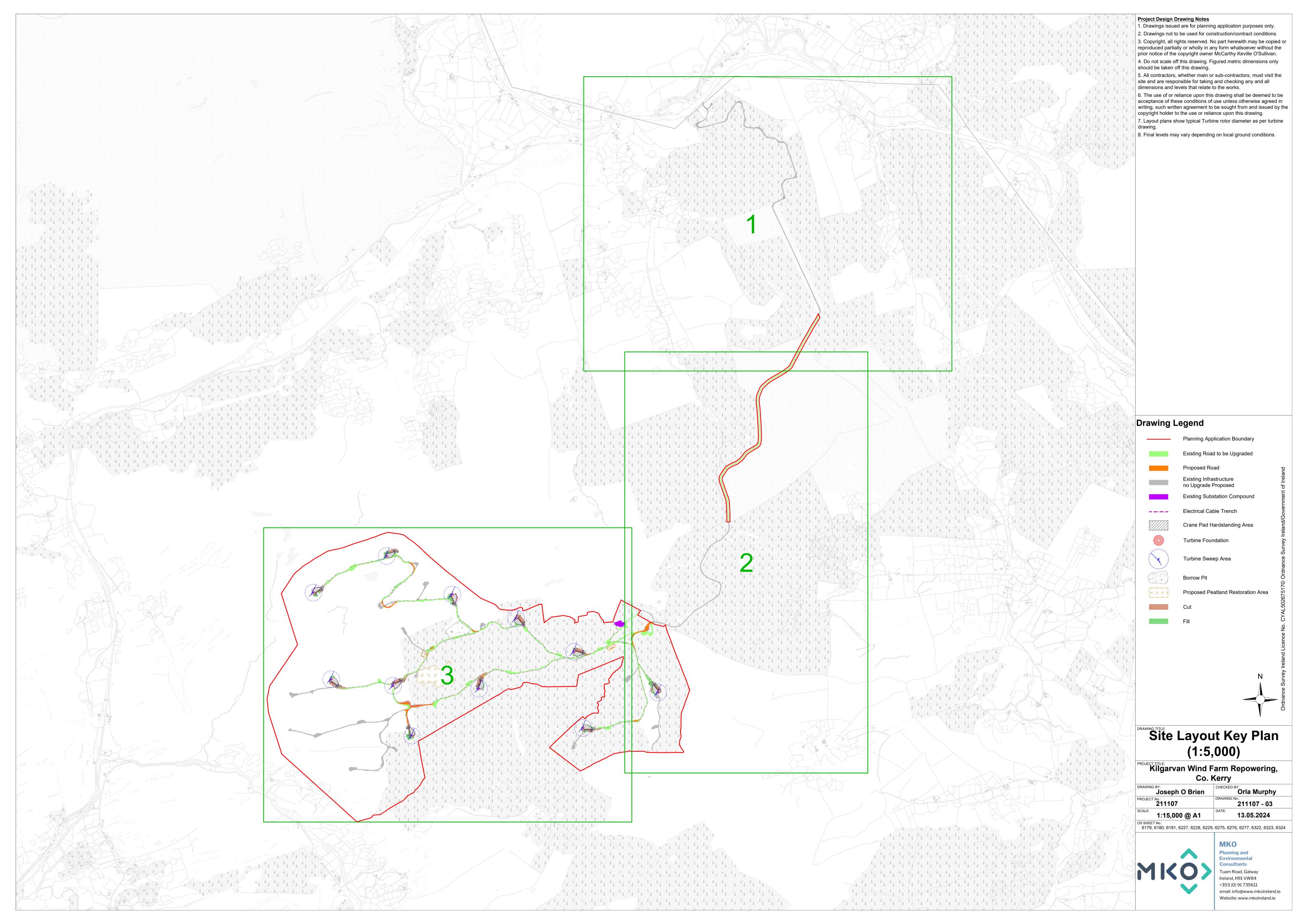


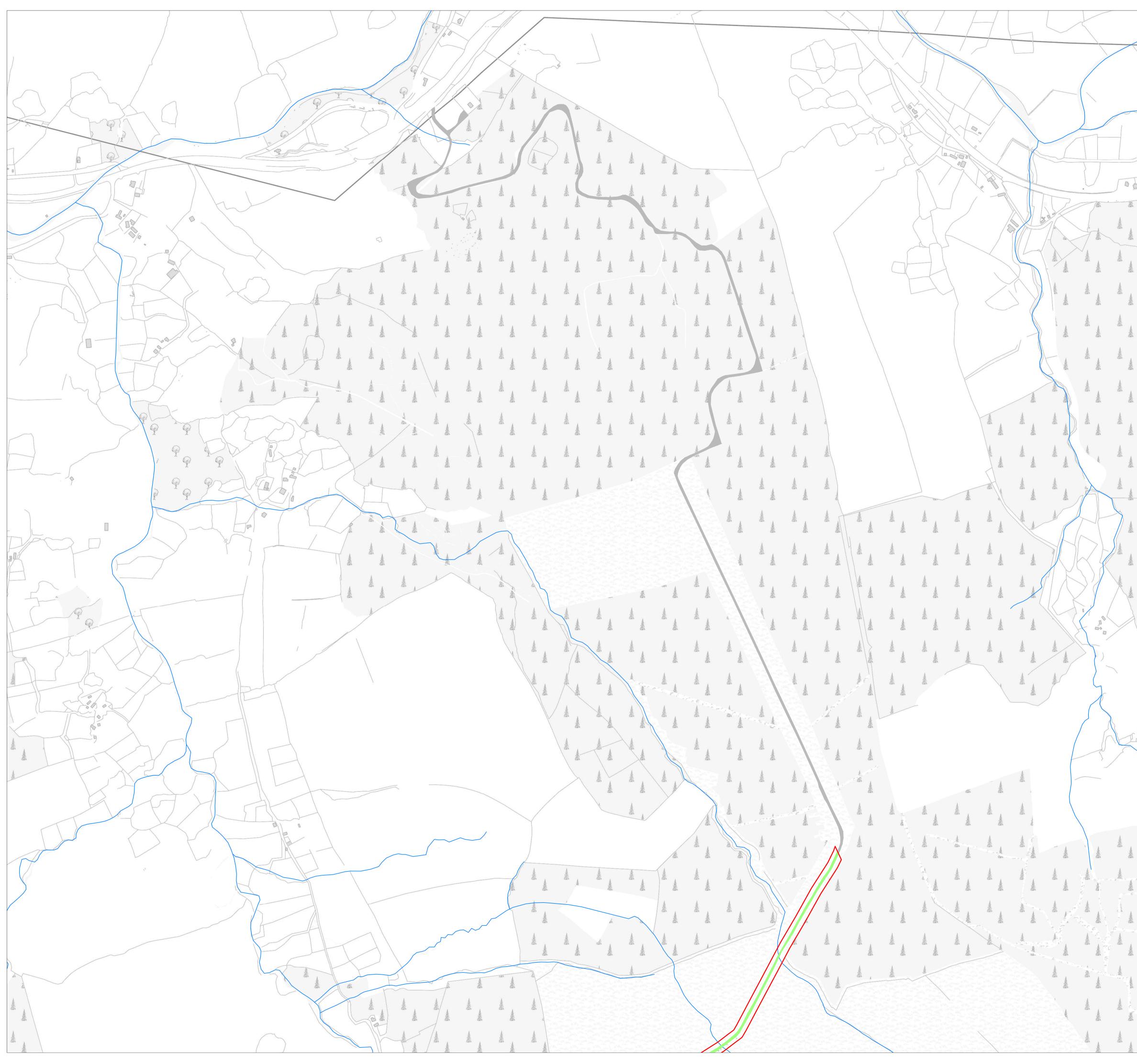
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Site Location Map Sheet D Kilgarvan Wind Farm Repowering, Co. Kerry Joseph O Brien Orla Murphy 211107 ^{№.}. 211107 - 02D
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 1:5,000 @ A3
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 13.05.202

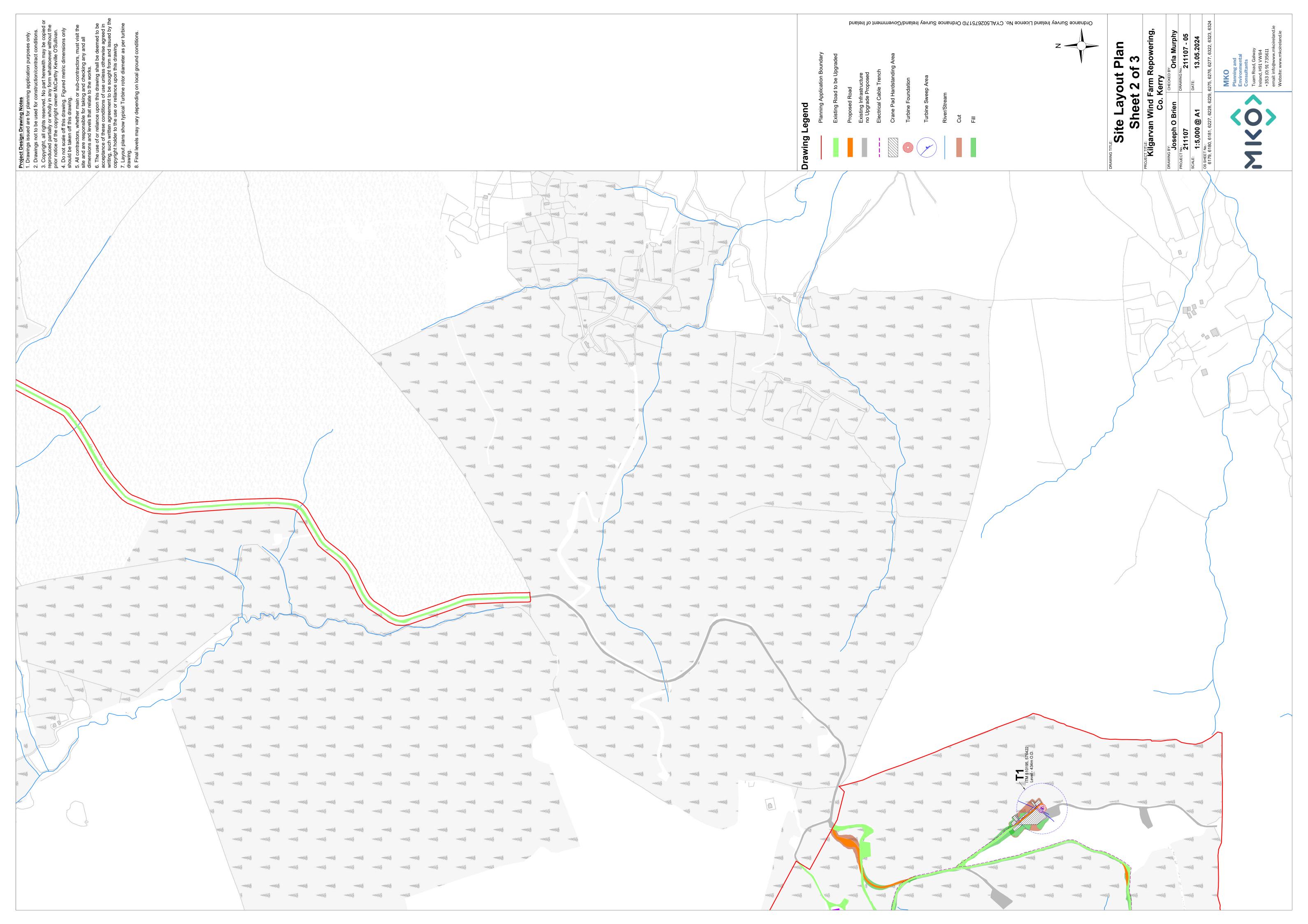
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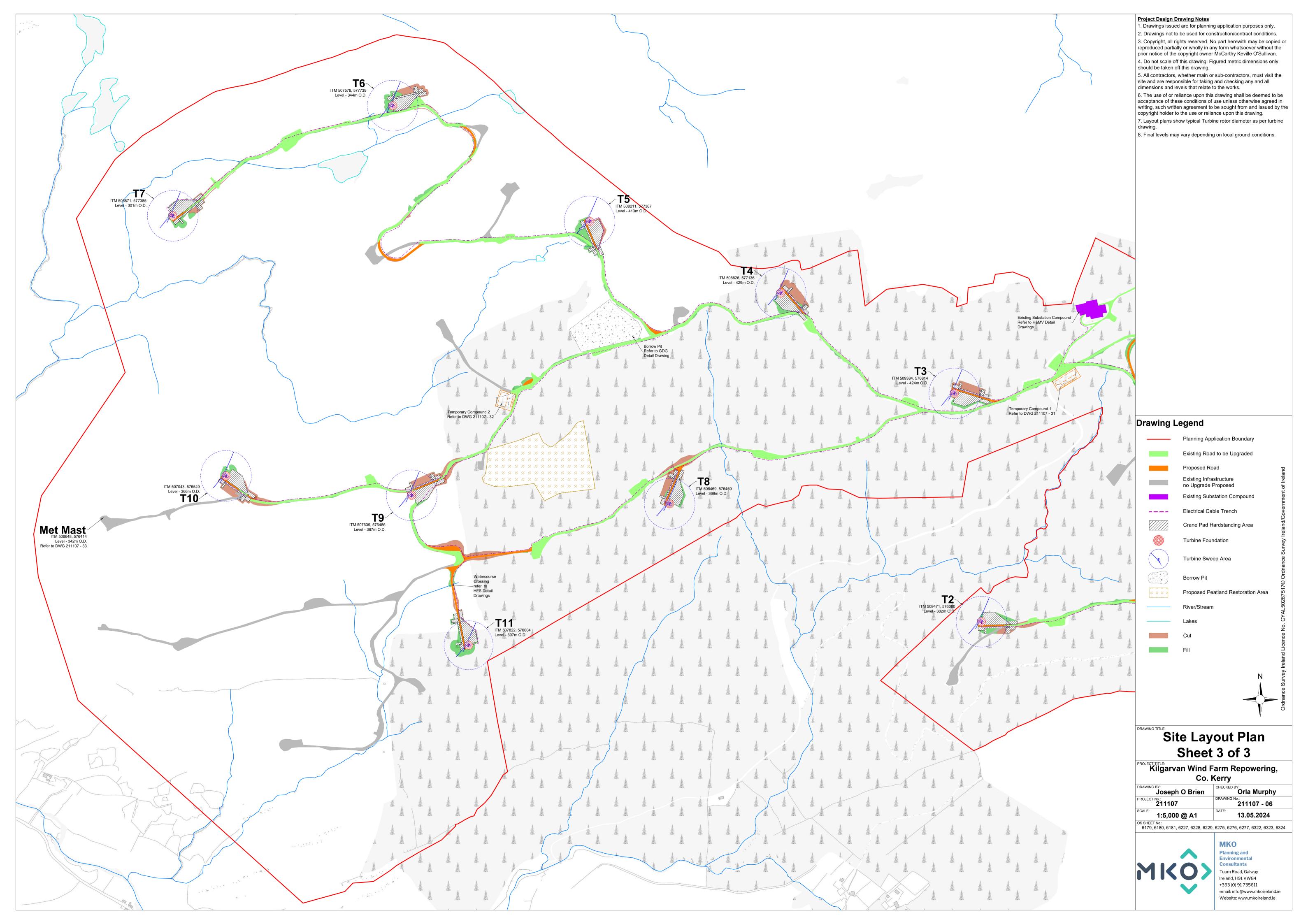
мко́> Consultants Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie V

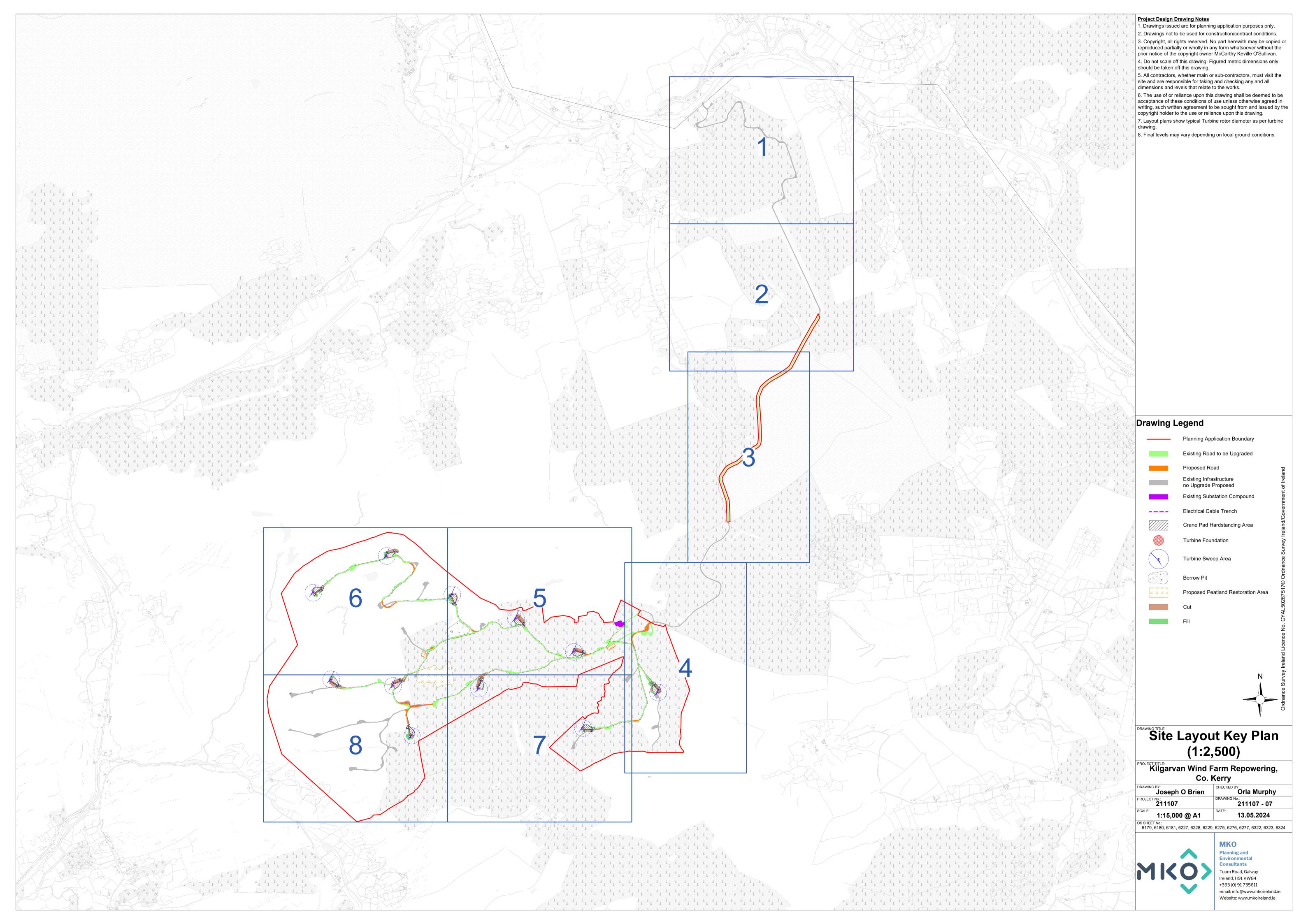




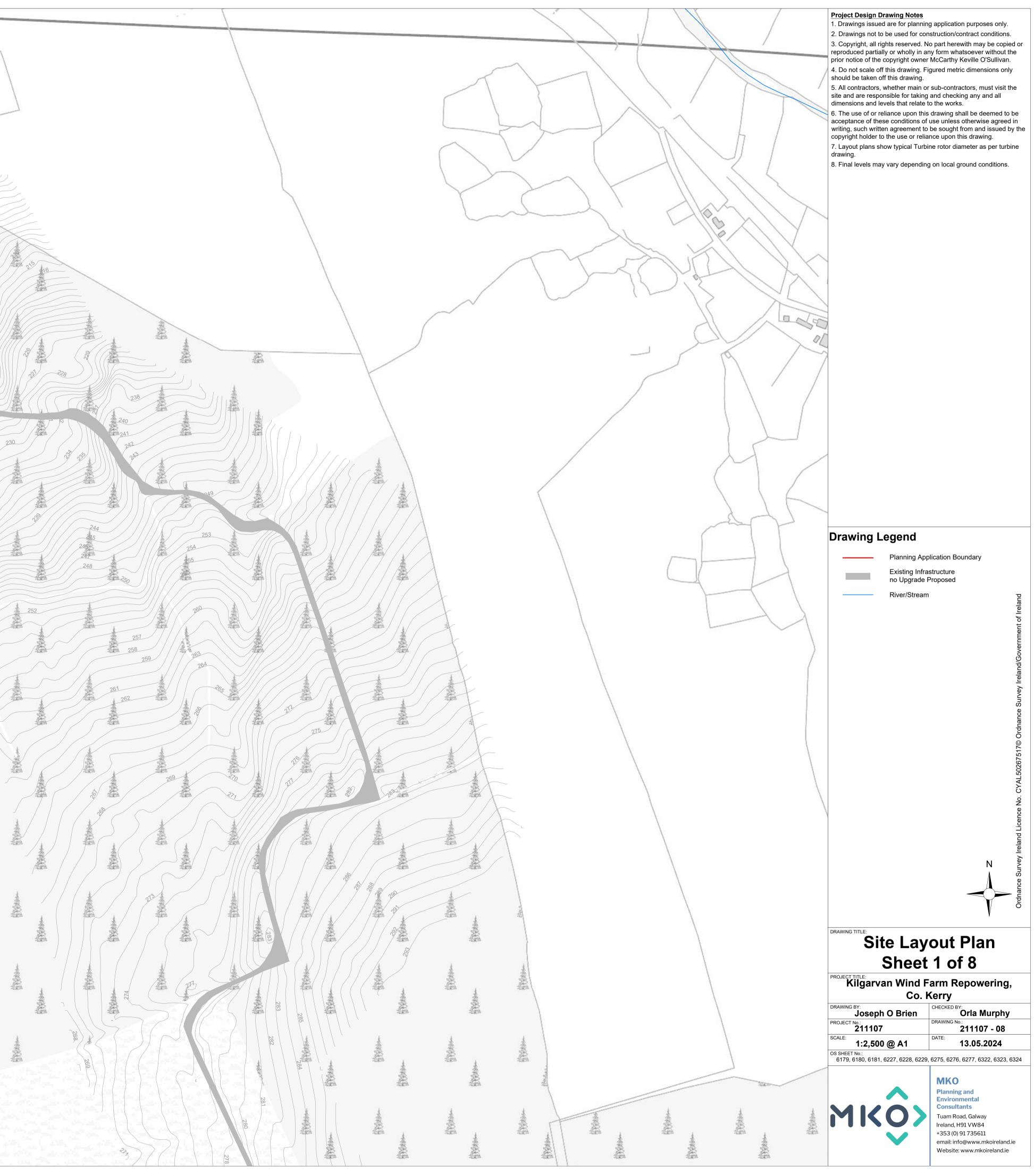
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		*	Elen -				_		and the second se	Environmental Consultants         Tuam Road, Galway Ireland, H91 VW84         +353 (0) 91 735611
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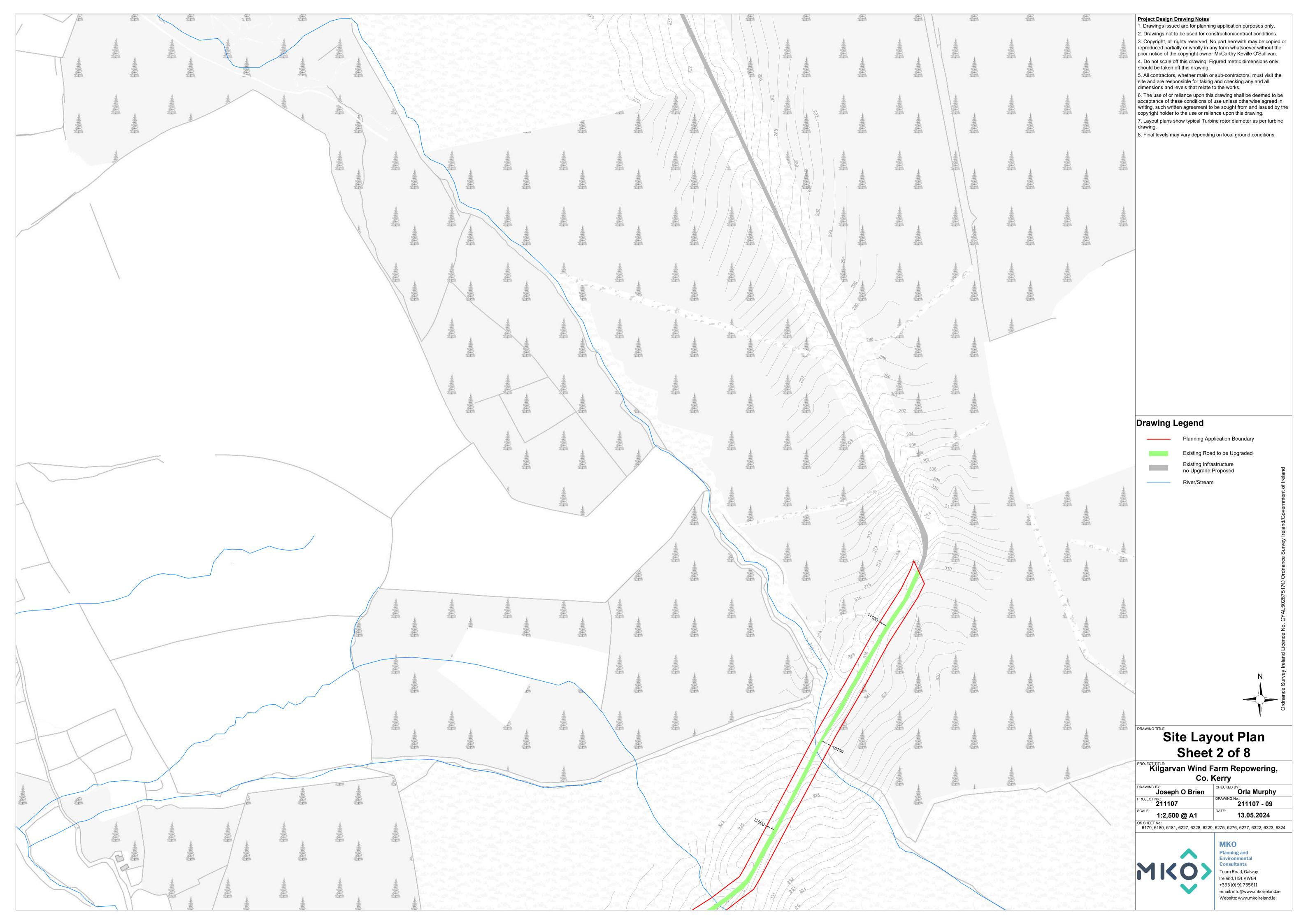


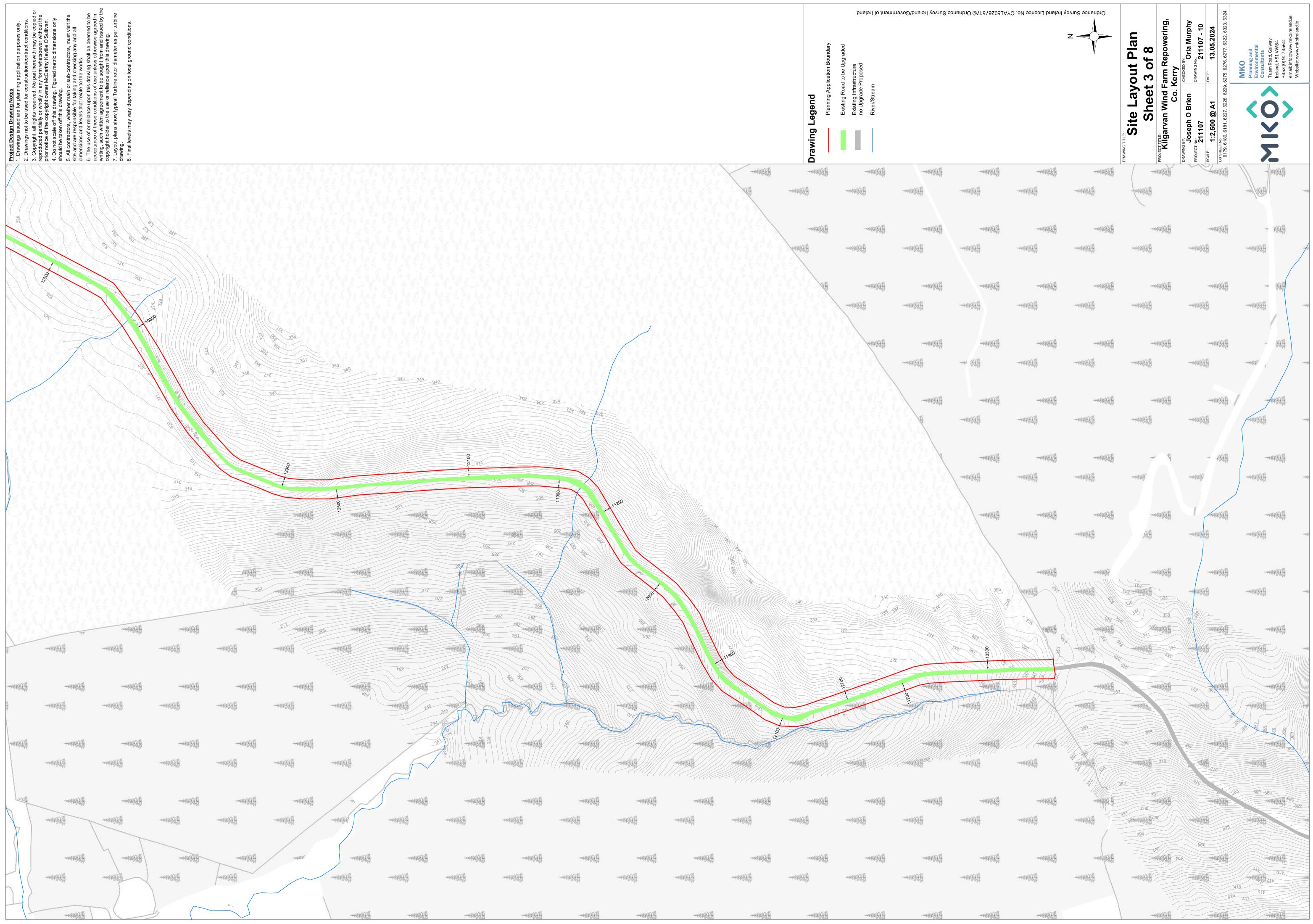


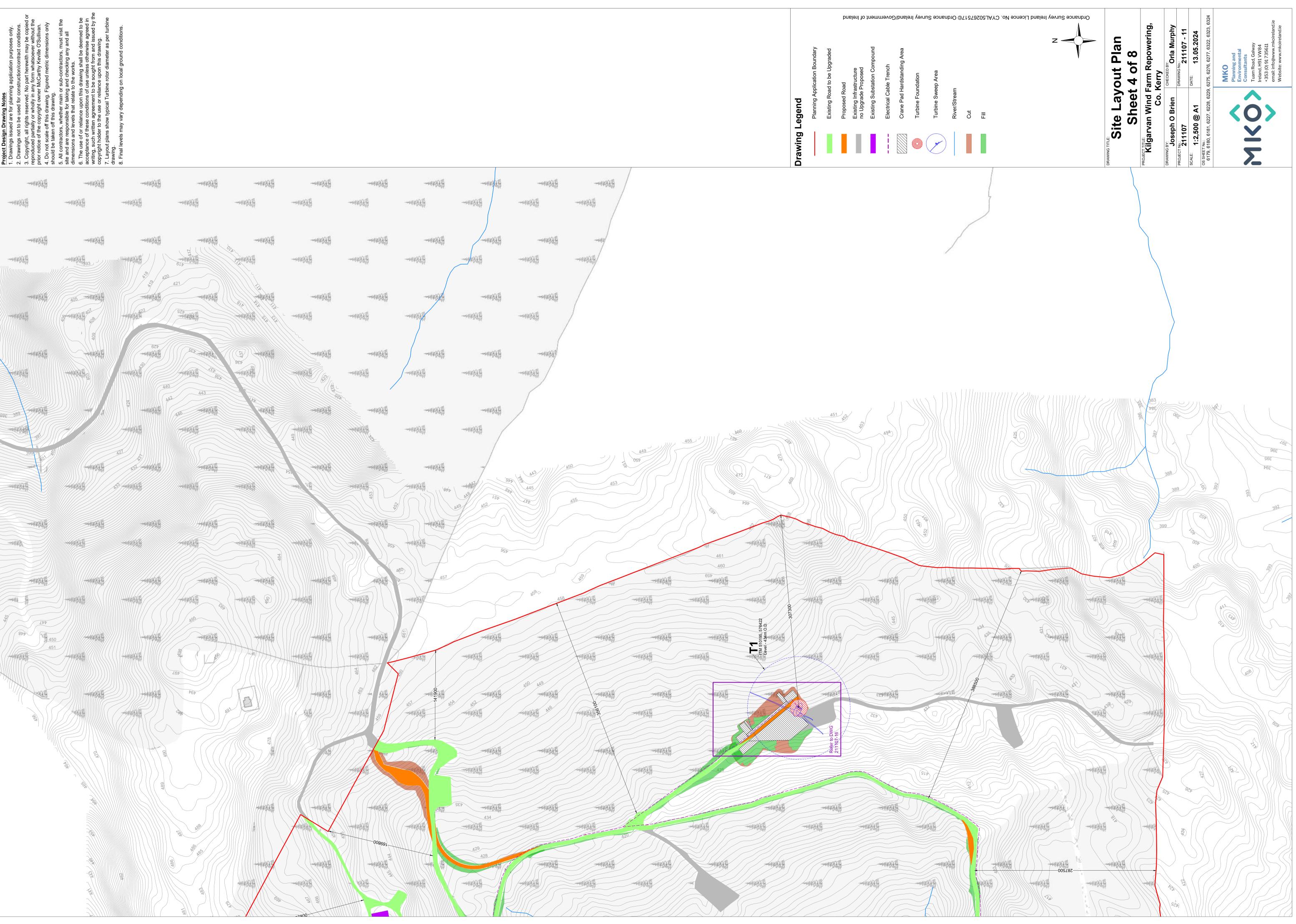


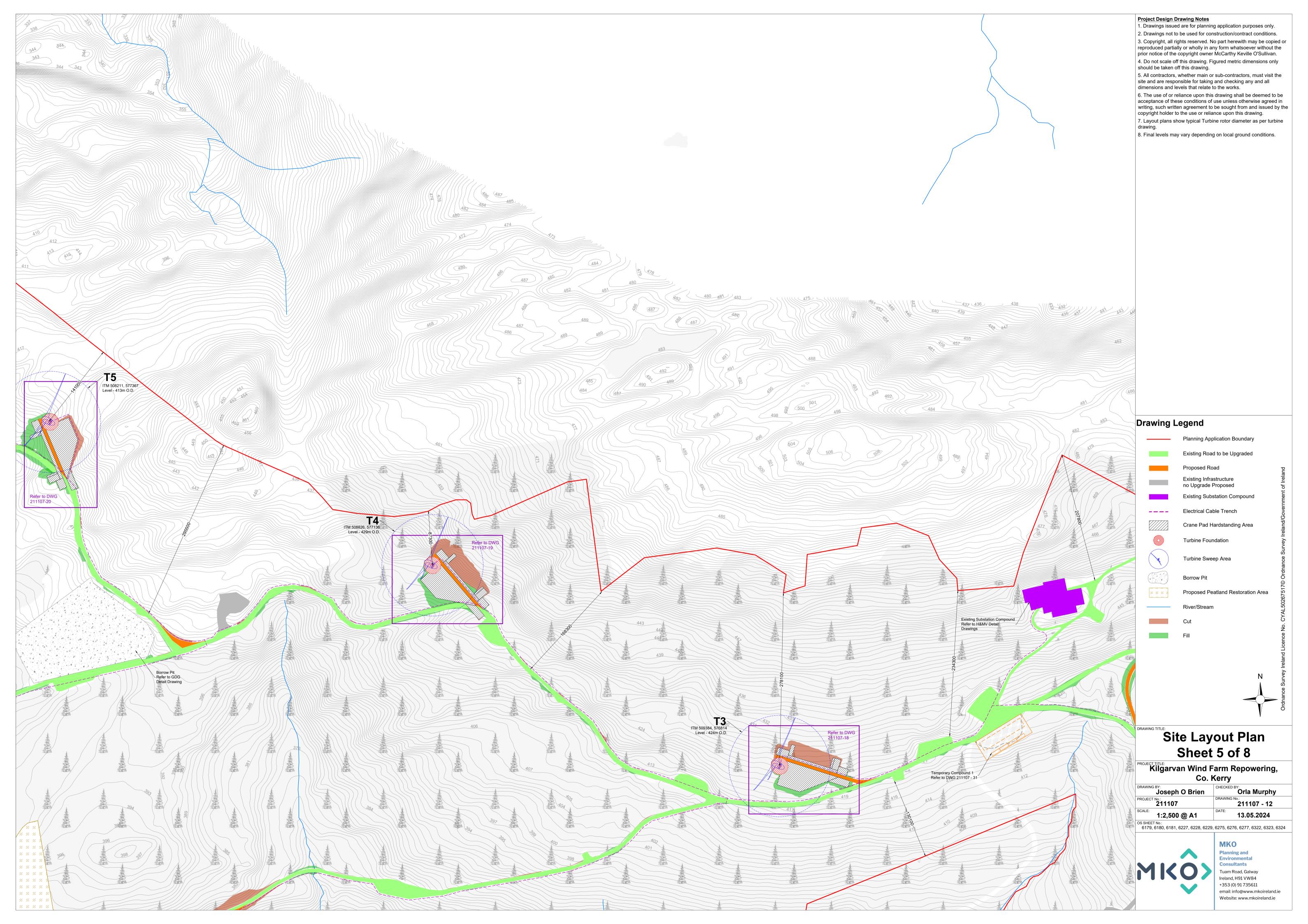
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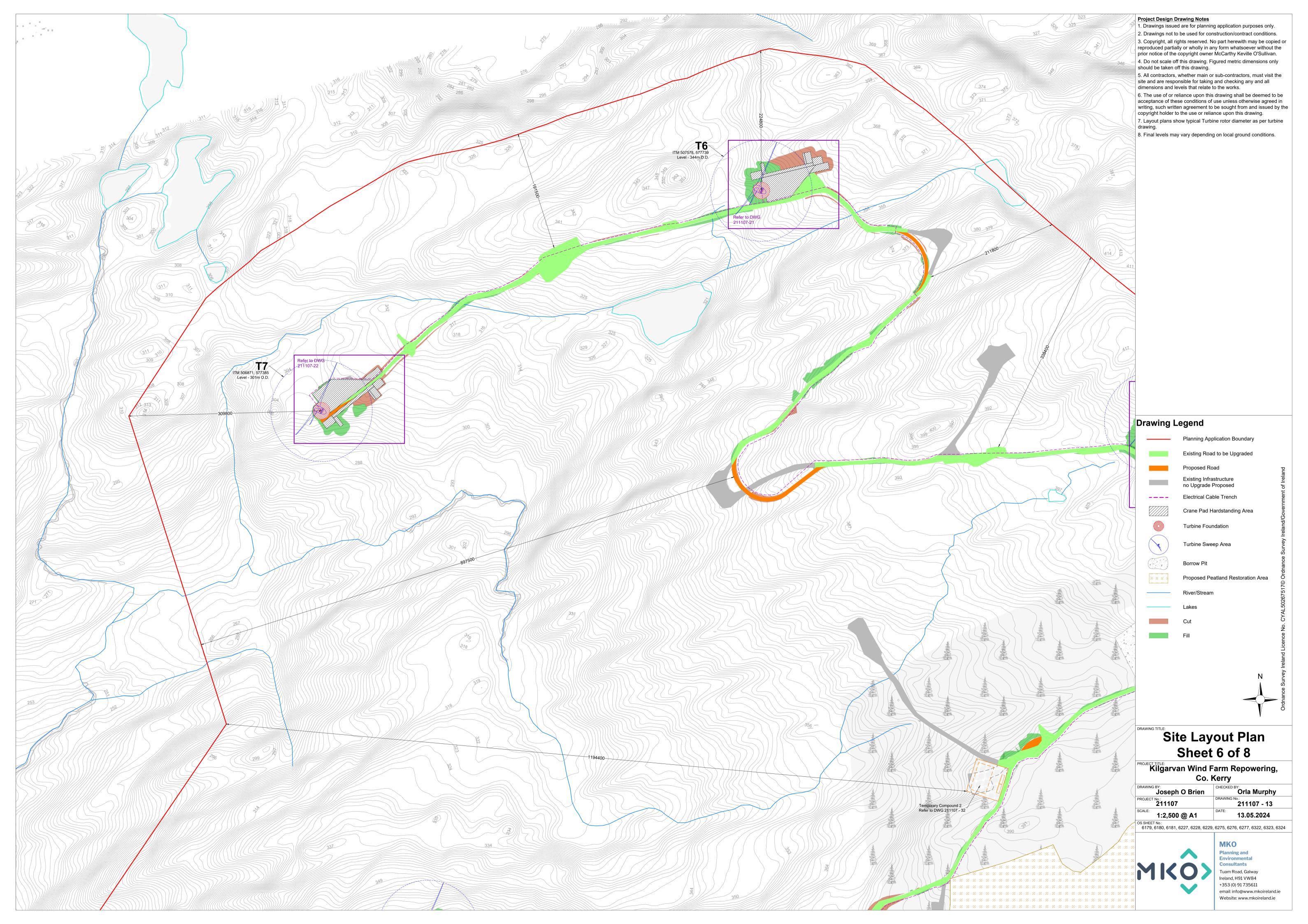


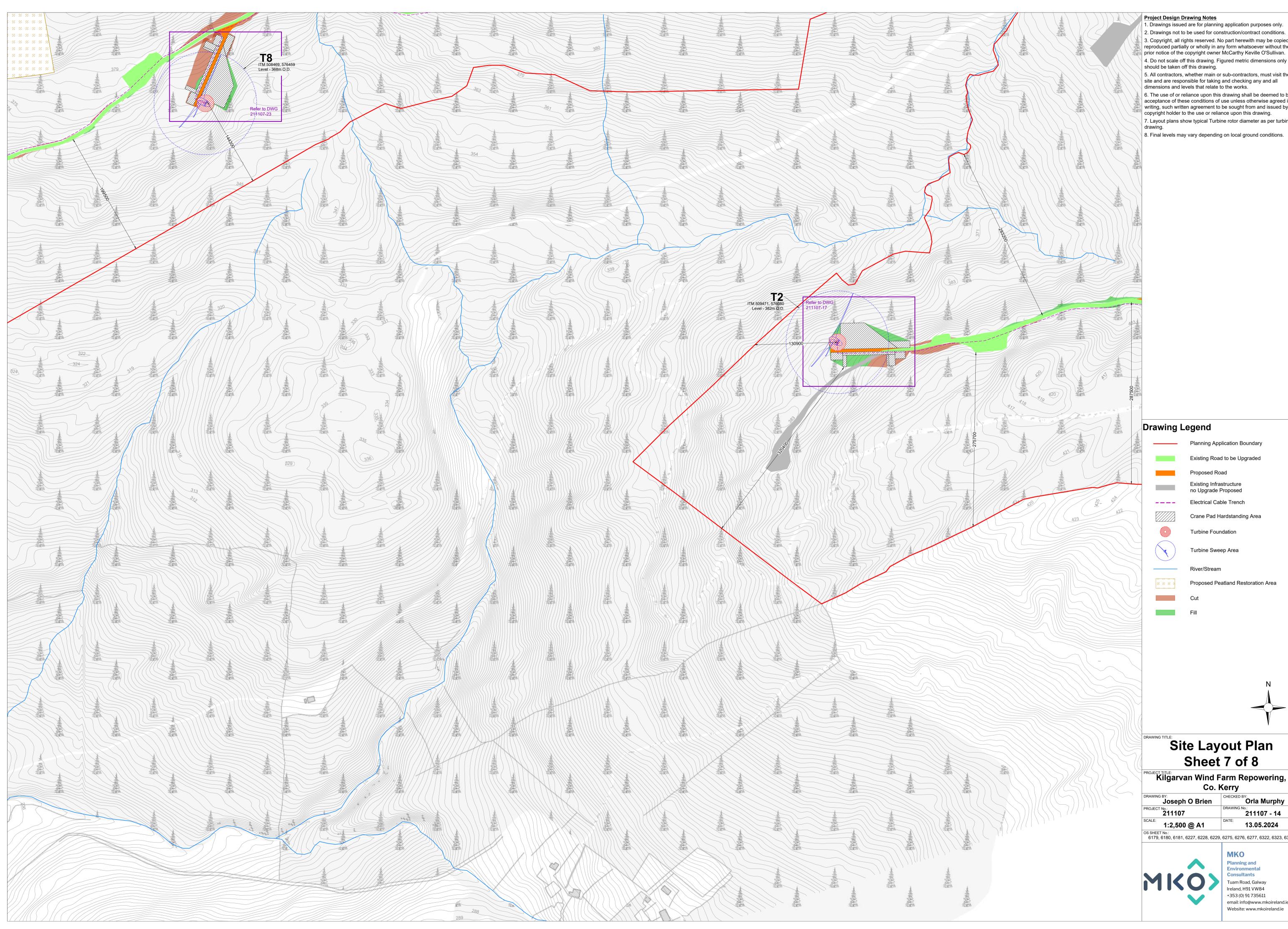












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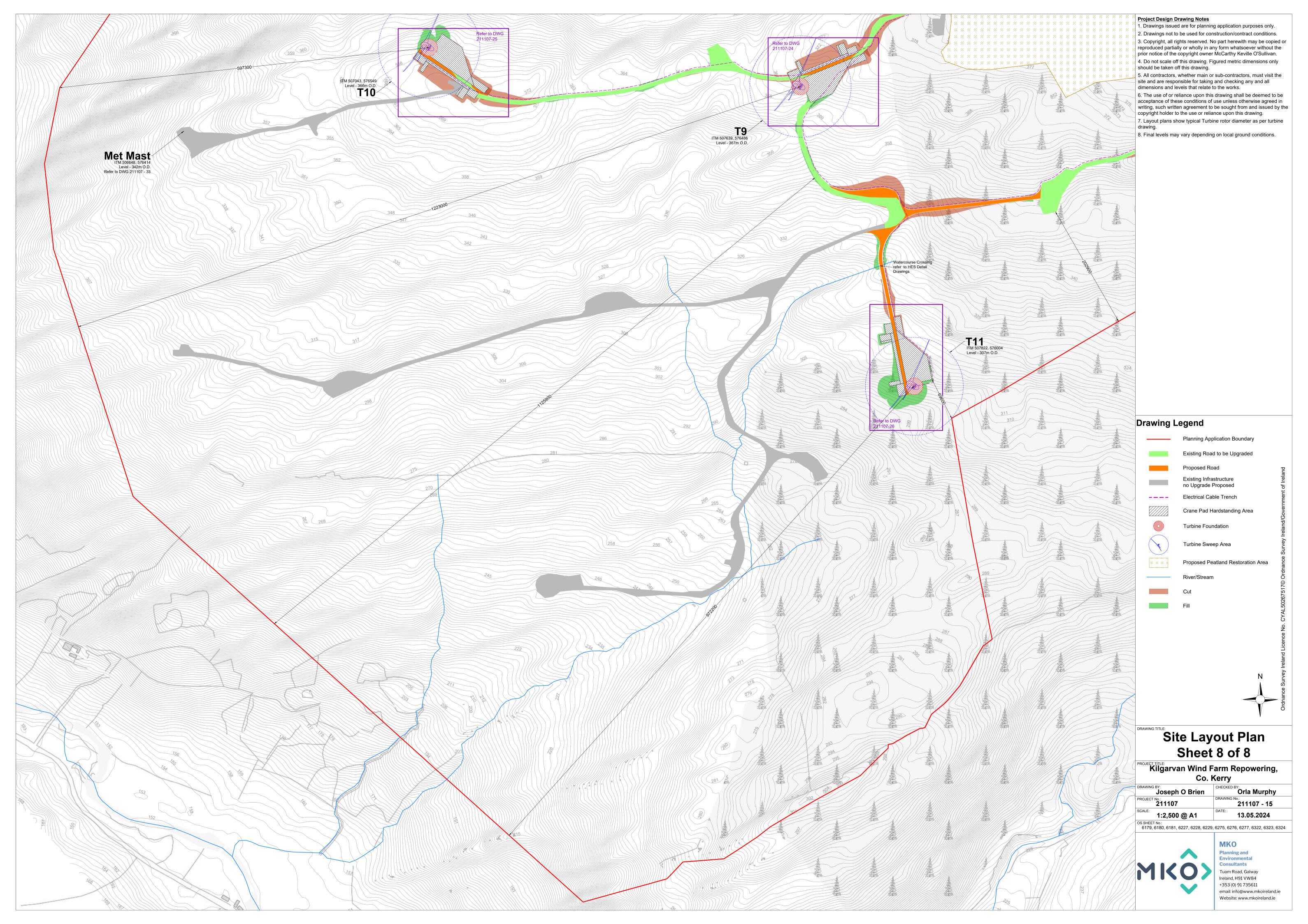
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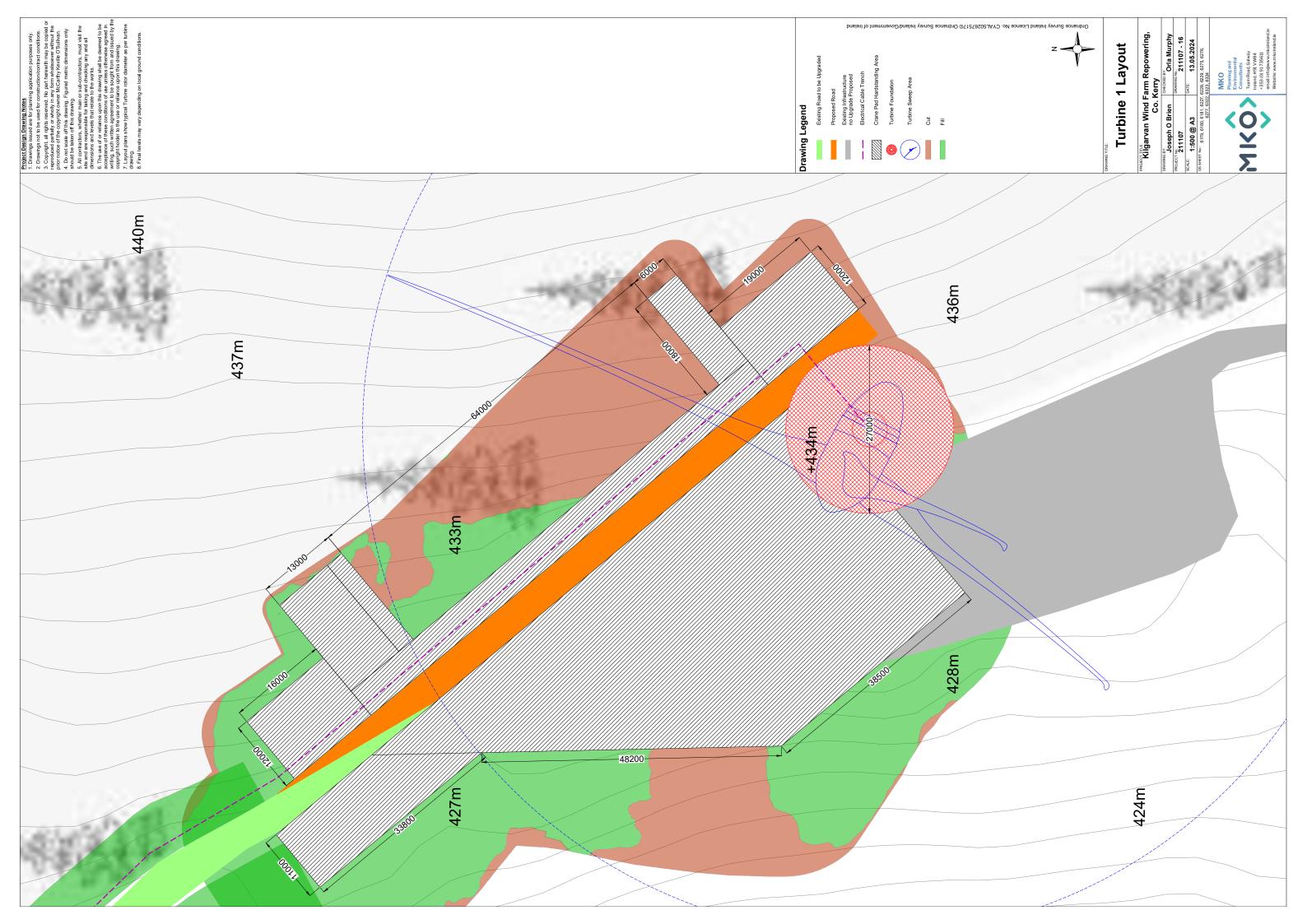
## DRAWING TITLE: Site Layout Plan Sheet 7 of 8 - --

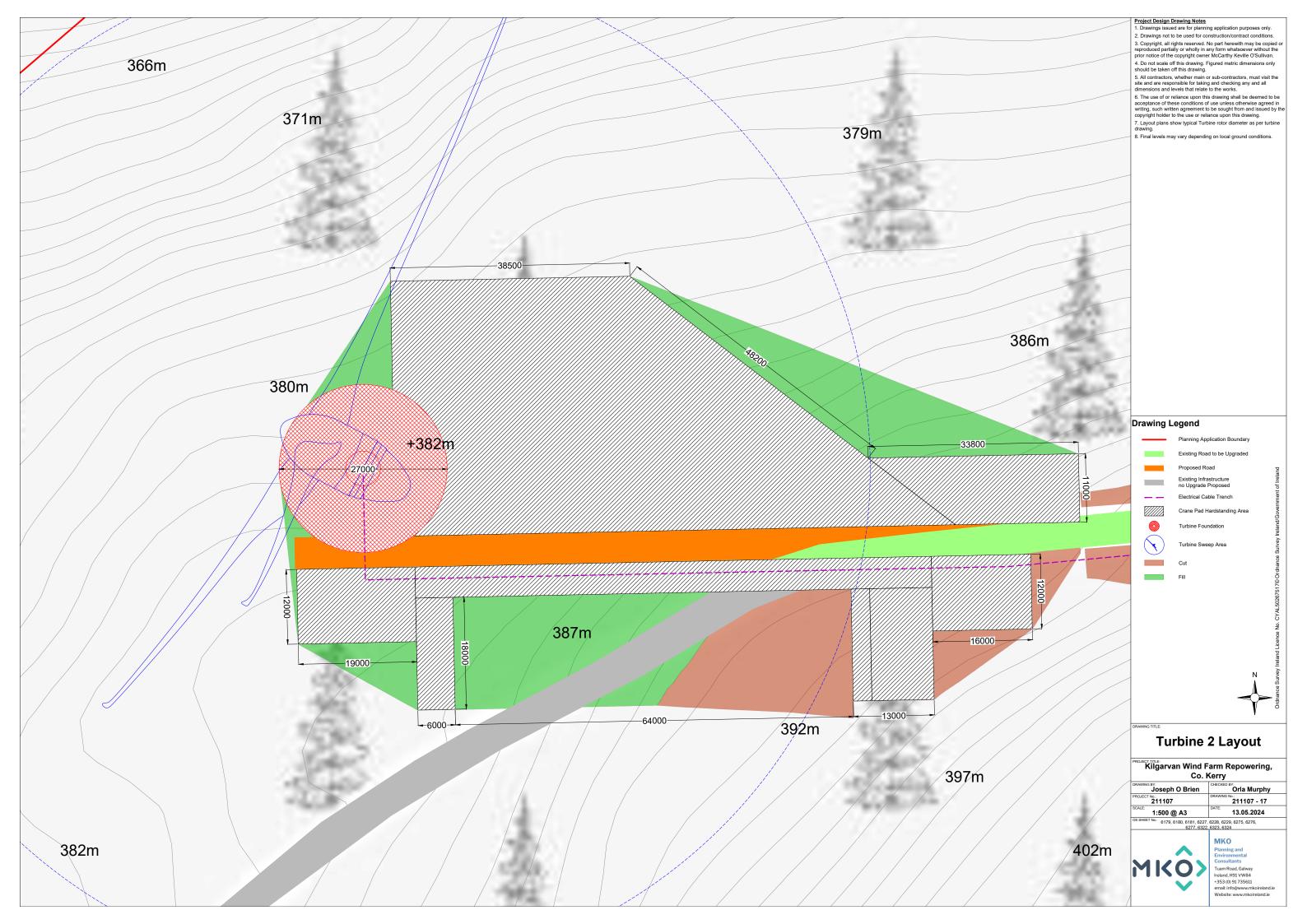
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drawing by: Joseph O Brien	CHECKED BY: Orla Murphy
PROJECT No.: <b>211107</b>	DRAWING No.: <b>211107 - 14</b>
scale: <b>1:2,500 @ A1</b>	DATE: 13.05.2024
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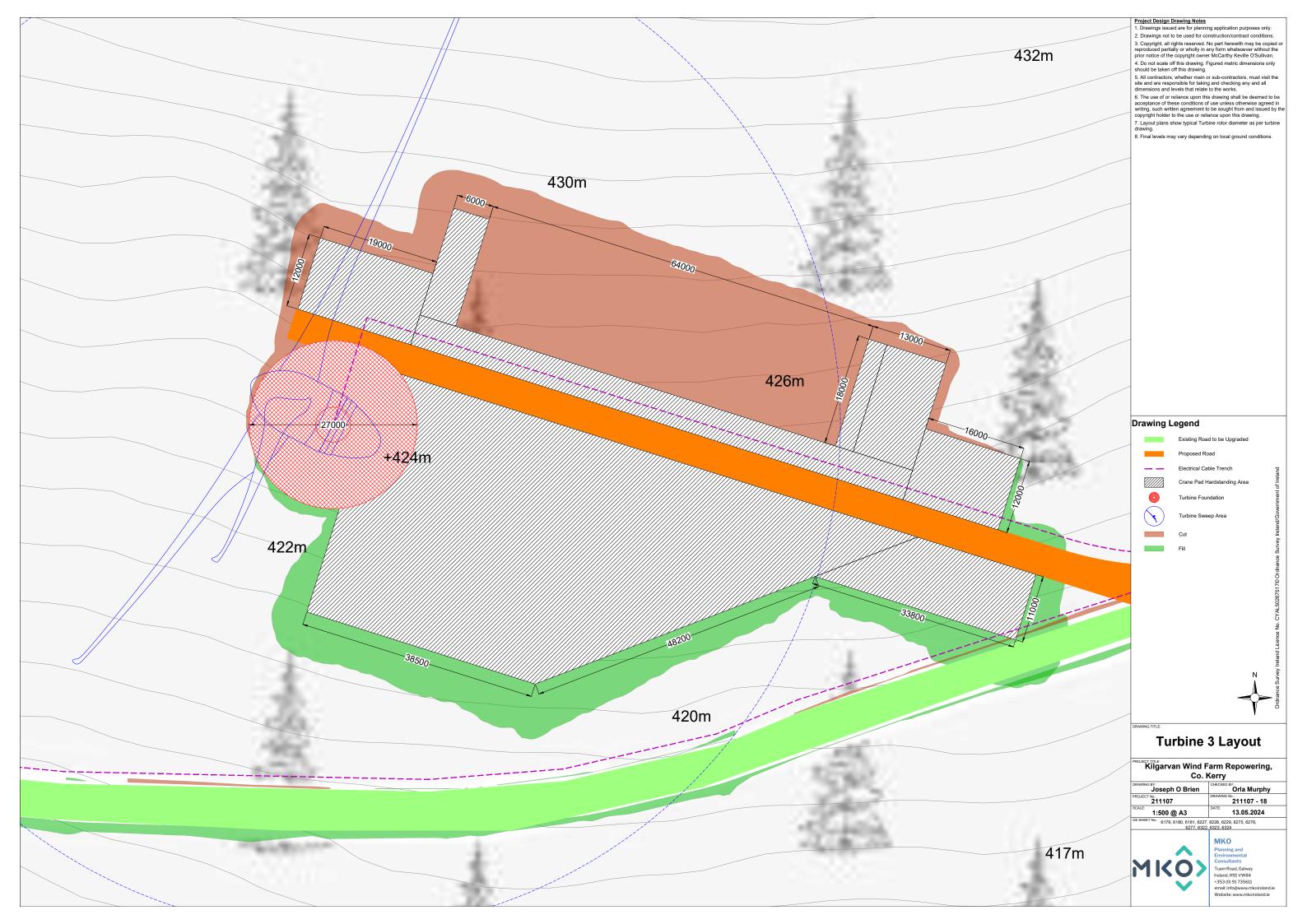
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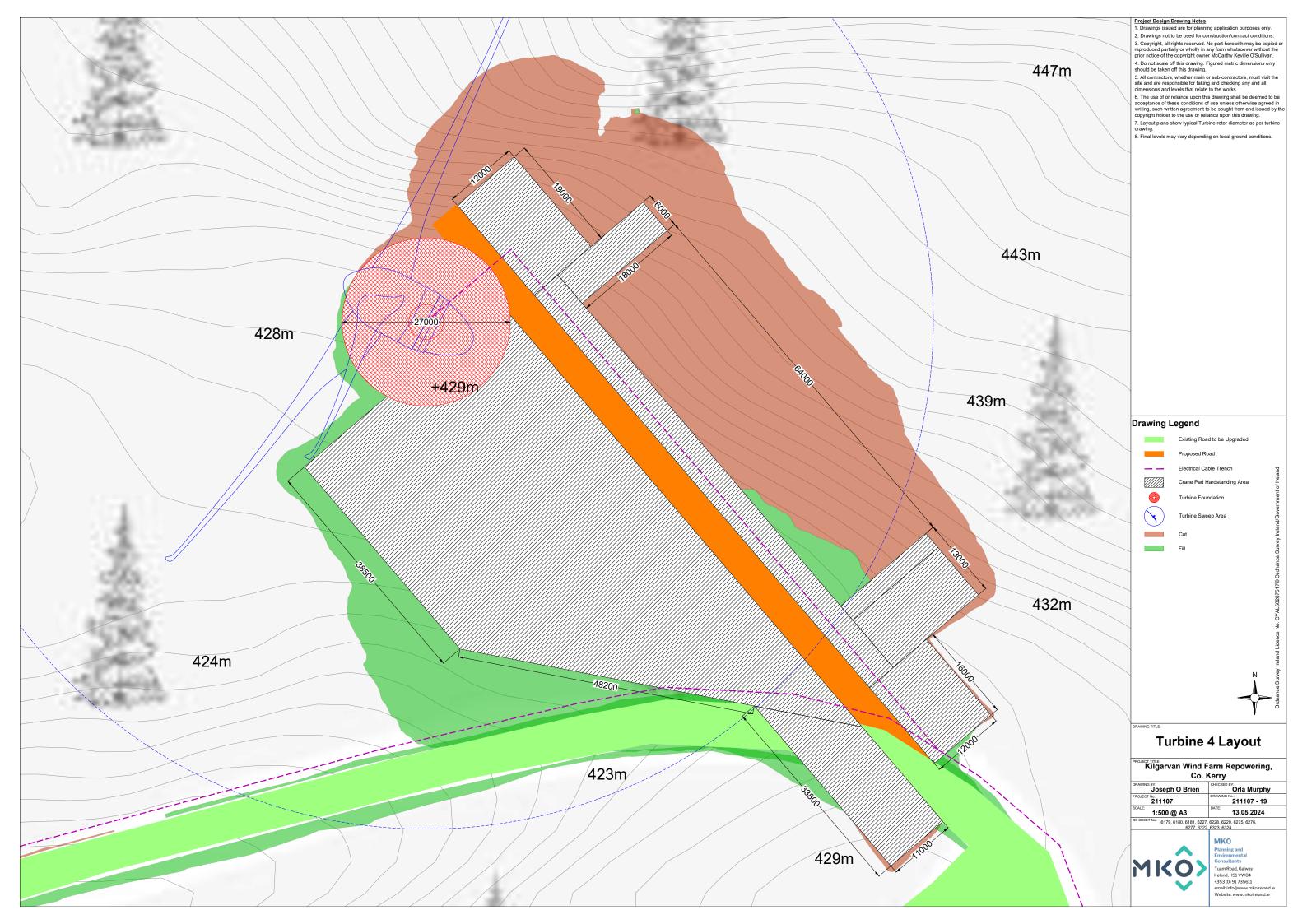
Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie

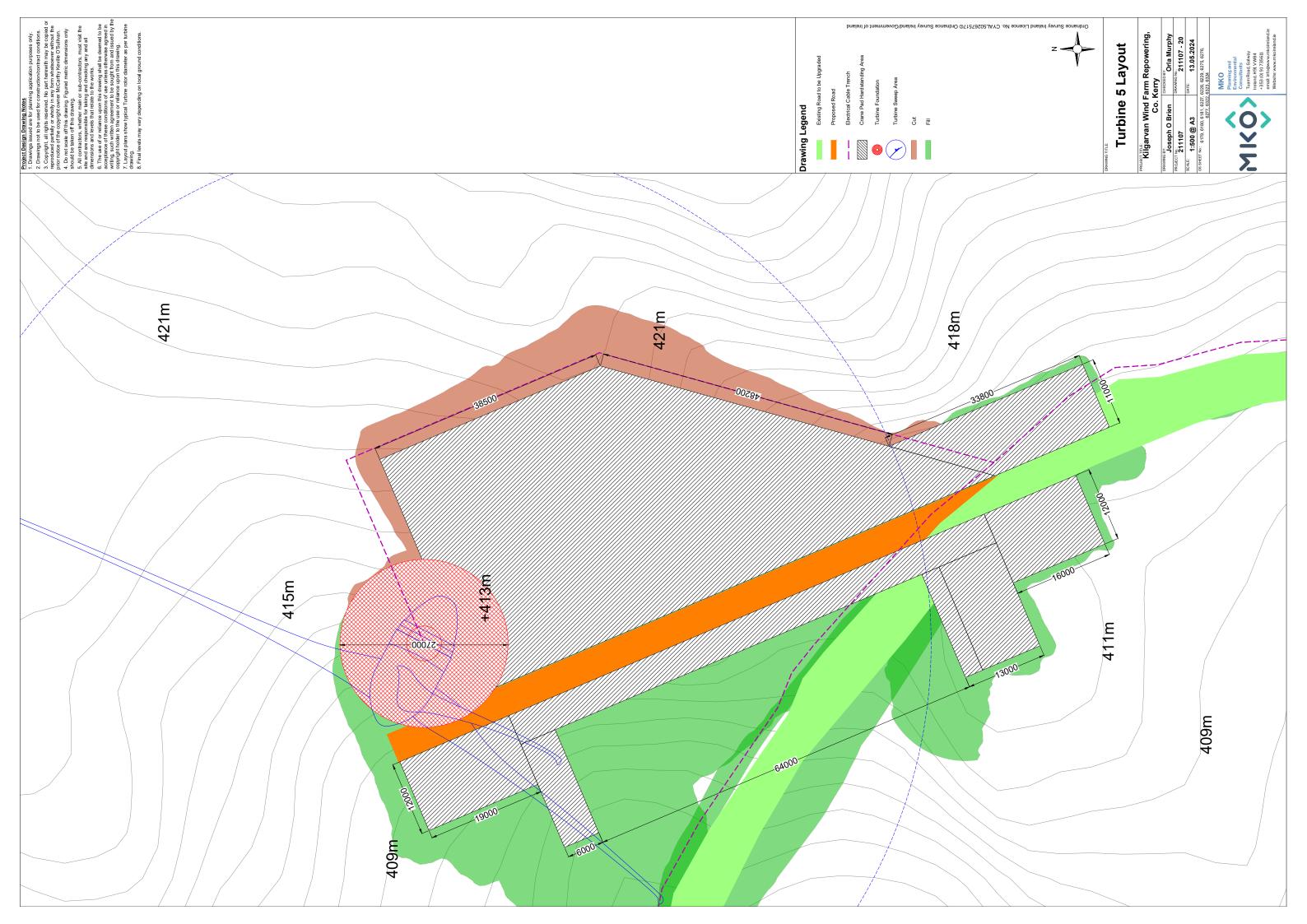


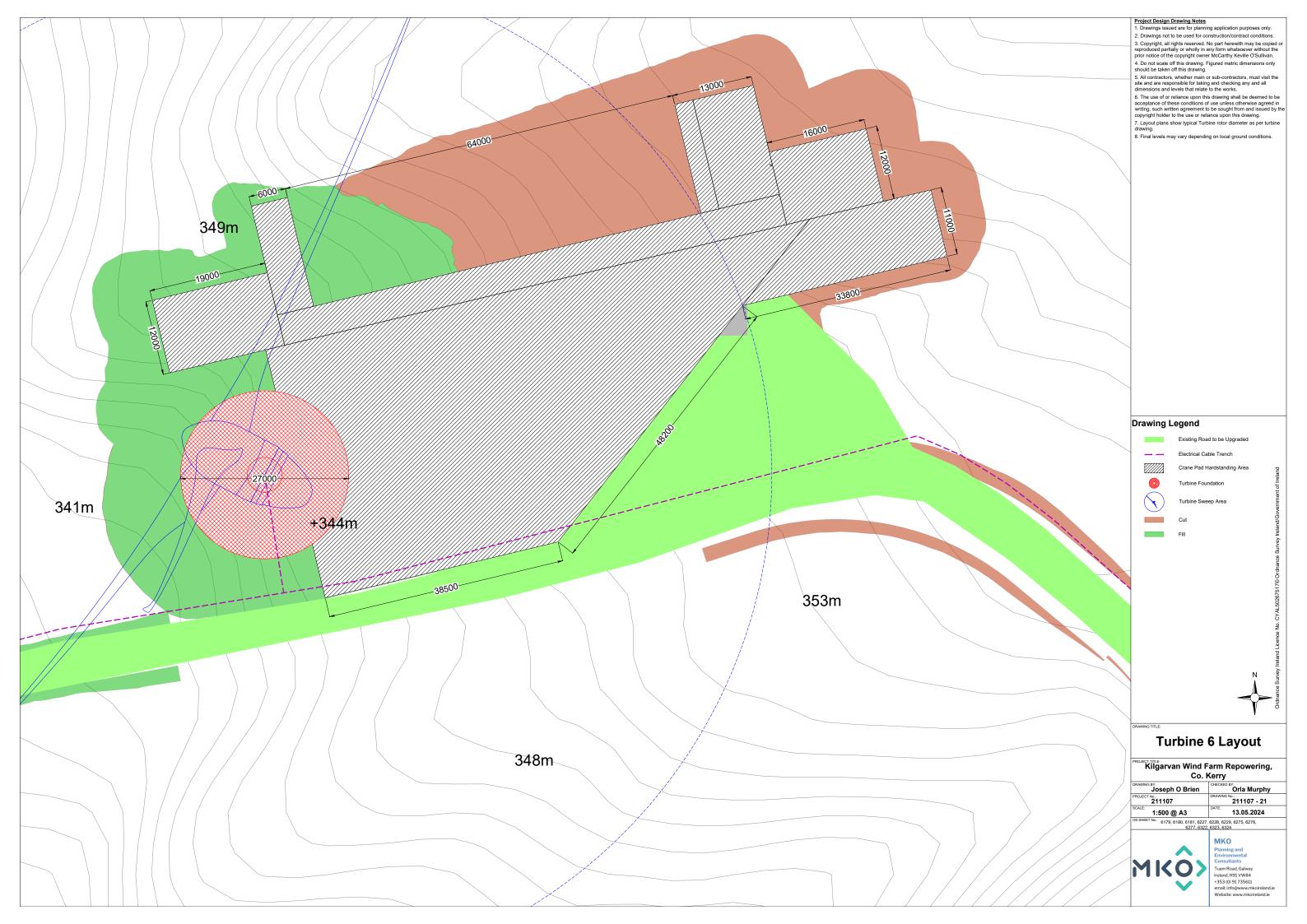


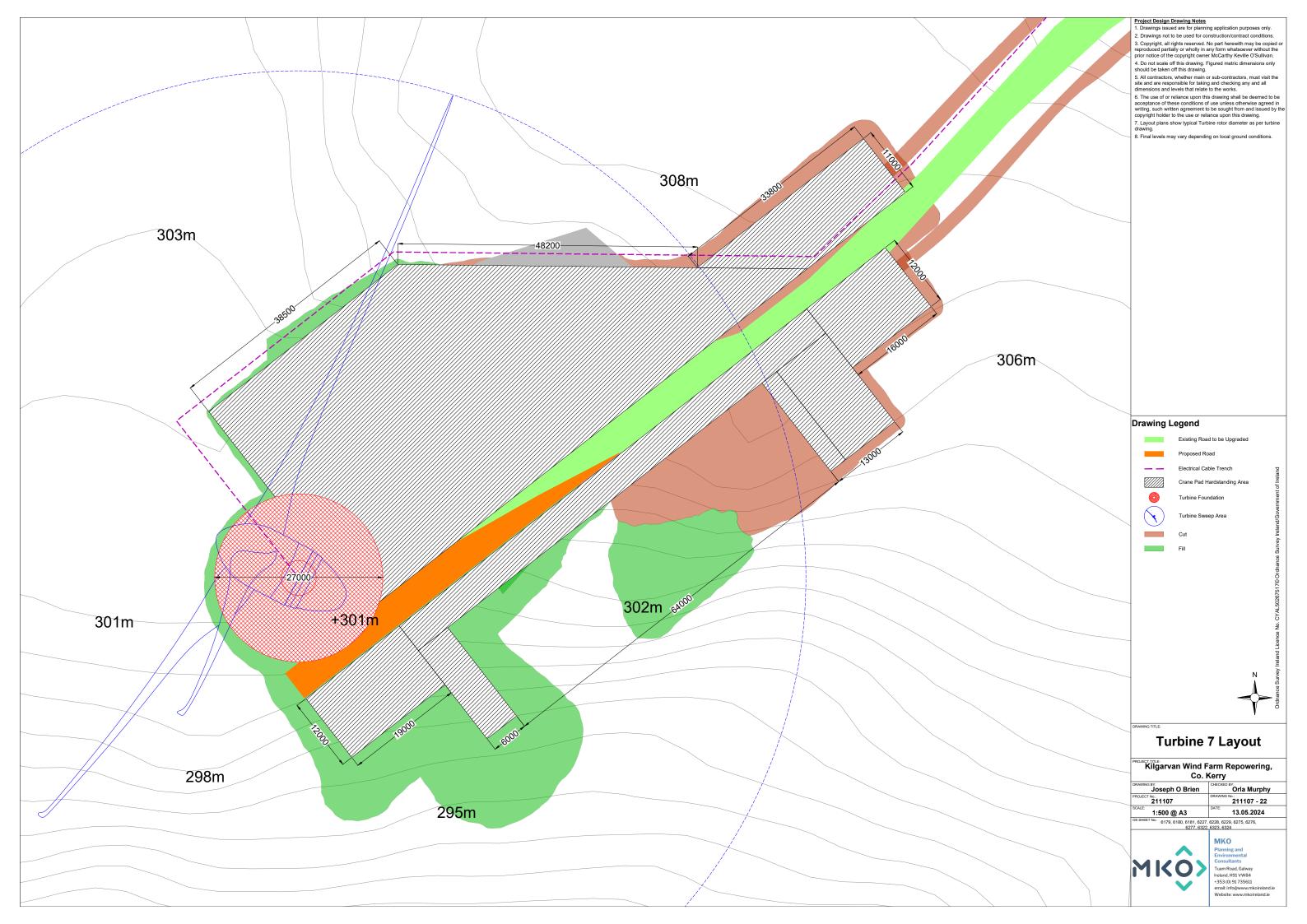


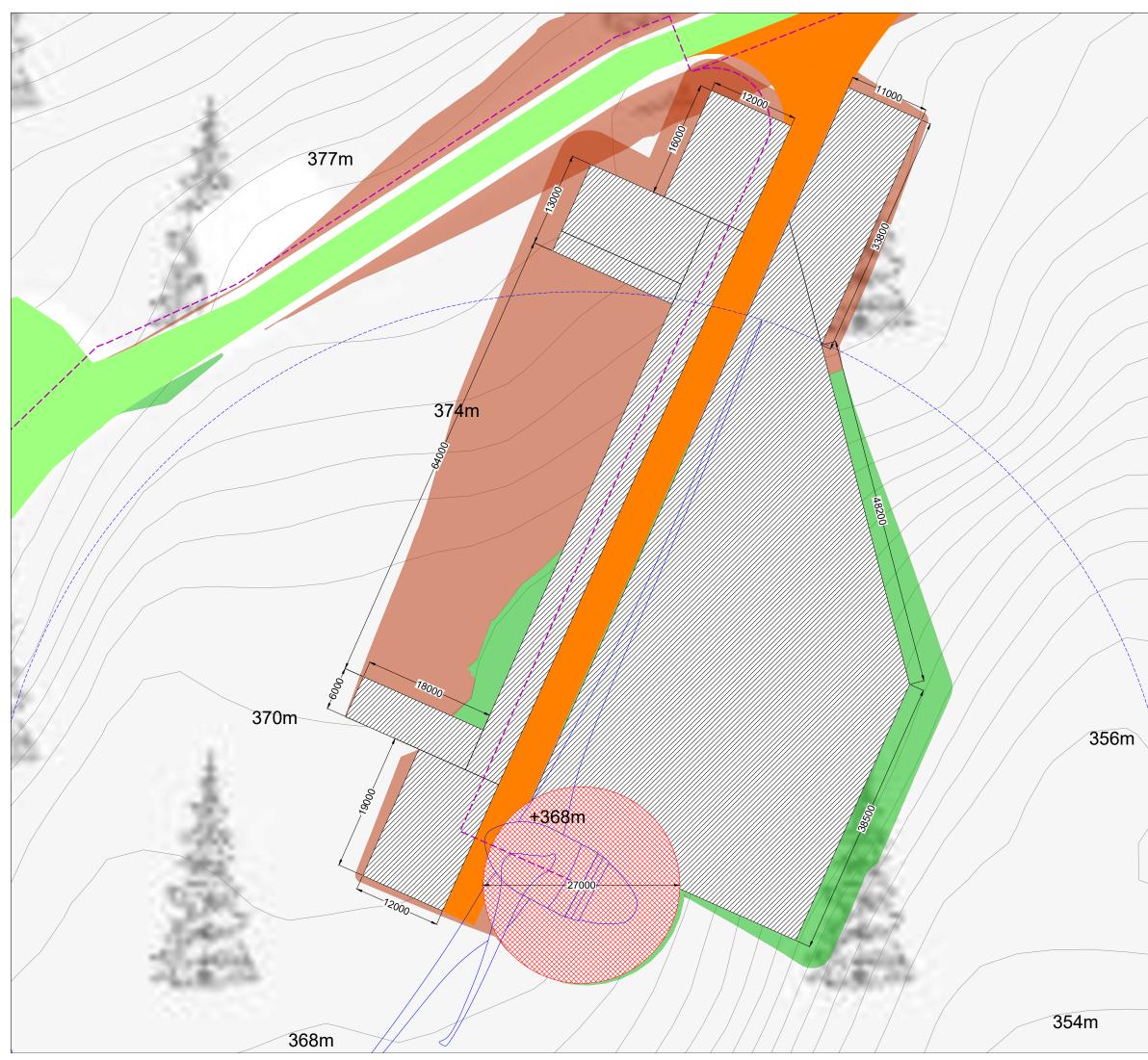










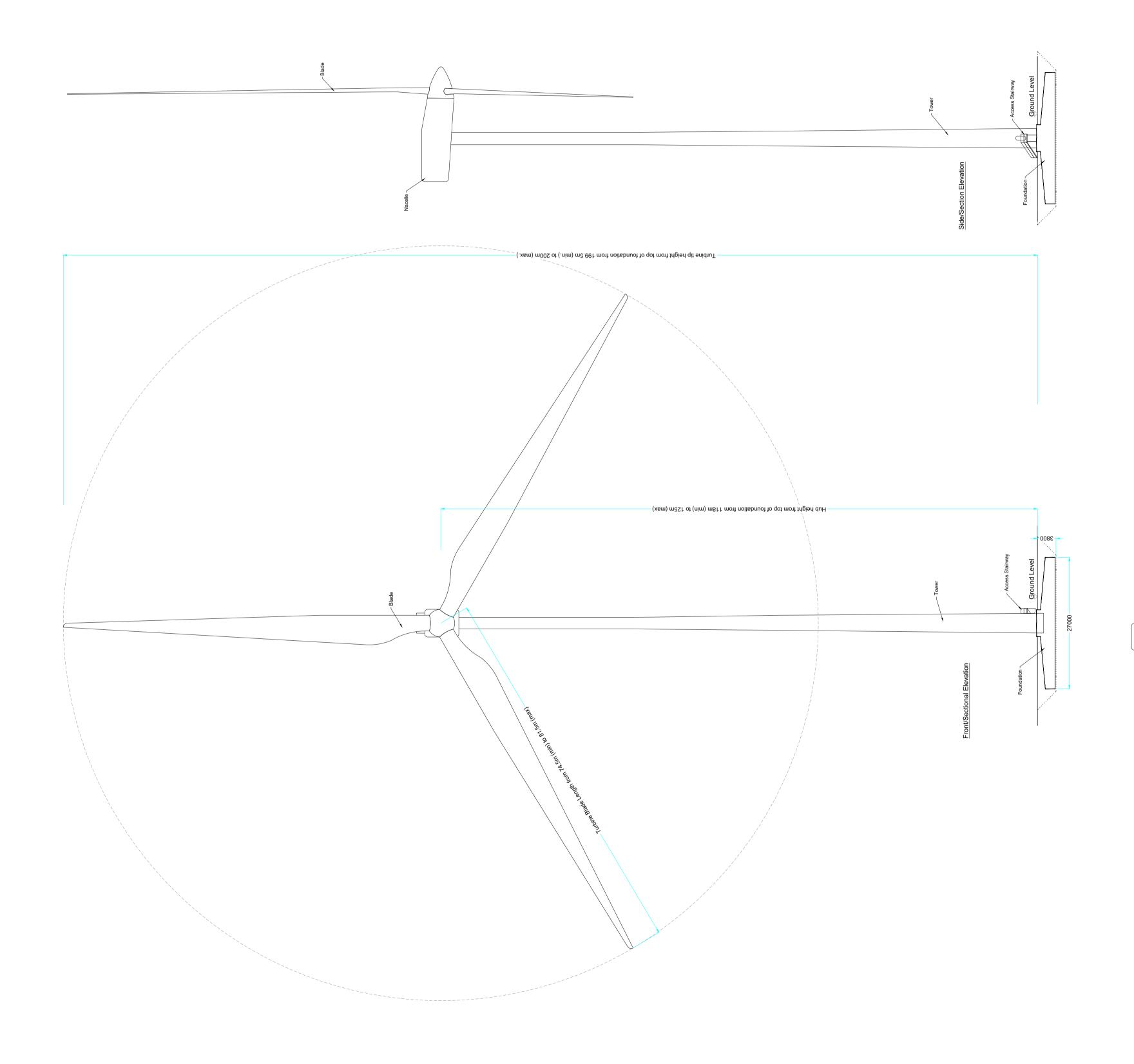


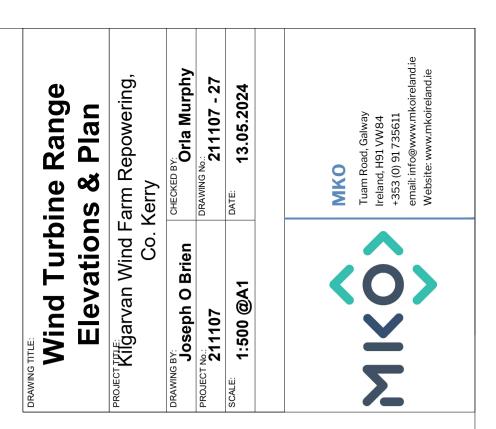
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	Project Design Drawing Notes     1. Drawings issued are for planning application purposes only.     2. Drawings not to be used for construction/contract conditions.
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	copyright holder to the use or reliance upon this drawing. 7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
000	8. Final levels may vary depending on local ground conditions.
368m	
001	Drawing Legend
361m	Existing Road to be Upgraded
	Proposed Road
	Crane Pad Hardstanding Area
	Turbine Foundation
12	Turbine Sweep Area
12	Cut De
	Fill Fill
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	Electrical Cable Trench Crane Pad Hardstanding Area Turbine Foundation Turbine Sweep Area Cut Fill Output Fill N Output Outp
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	PROJECT TITLE           Turbine 8 Layout           PROJECT TITLE:           Kilgarvan Wind Farm Repowering, Co. Kerry           DRAWING BY:         Orla Murphy           DRAWING BY:         Orla Murphy           PROJECT TO::         DRAWING No::           211107         DRAWING No::           SCALE:         1:500 @ A3           OG SHEET No::         6179, 6190, 619, 6227, 6236, 6275, 6276, 6276, 6237, 6232, 6324           MKO
	PROJECT TITLE:           Turbine 8 Layout           PROJECT TITLE:           Kilgarvan Wind Farm Repowering, Co. Kerry           DRAWING BY:         Crecore BY:           Joseph O Brien         Ore Orla Murphy           PROJECT NO.:         211107 - 23           SCALE:         1:500 @ A3         DATE:           OB SHEET No::         6179, 6180, 6181, 6227, 6228, 6229, 6275, 6276, 6277, 6322, 6323, 6324
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	PROJECT TITLE:           Turbine 8 Layout           PROJECT TITLE:           Kilgarvan Wind Farm Repowering, Co. Kerry           DRAWING BY:         CHECKED BY:           DRAWING BY:         CHECKED BY:           211107         DRAWING DA:           201107         DRAWING TAILION           201107         DATE:           13.05.2024         DATE:           05 SHEET No::         6179, 6180, 6181, 6227, 6226, 6275, 6276, 6277, 6276, 6277, 6323, 6323           MKKO           MKKO           MKO           MKO           Particitation and Environmental Consultants           CONSULTATE Consultants           MKO           Particitation and Environmental Consultants           MKO

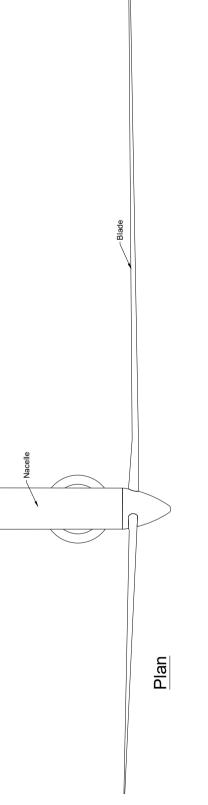






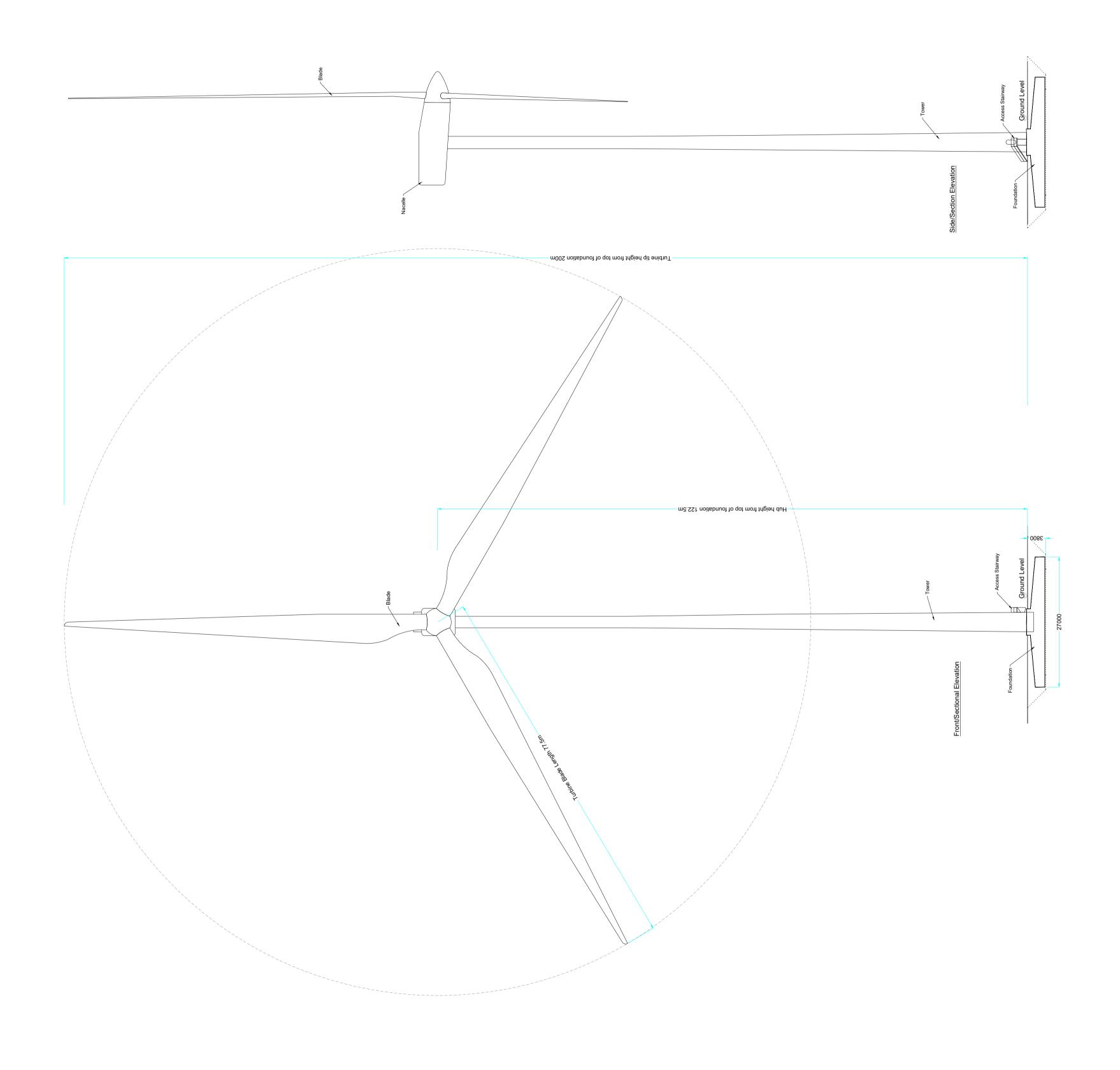




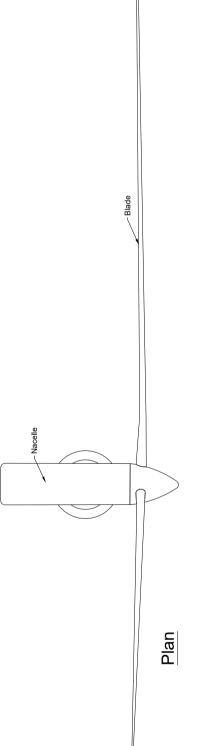


Drawing Notes	Proposed wind turbines to have a	to blade tip height of up to 200m.
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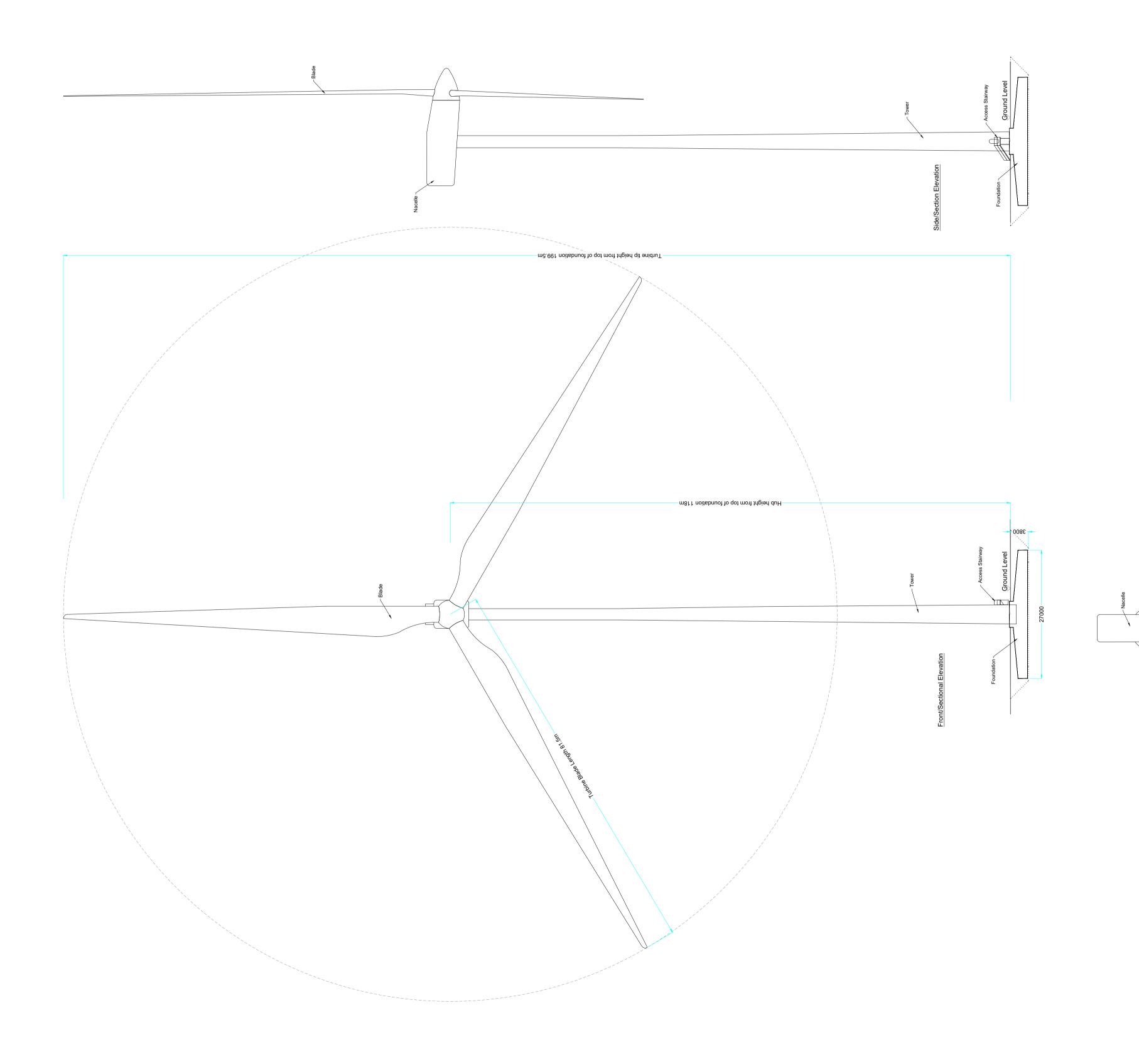


DRAWING TITLE: 122 5m hith and 77 5m hlade	d 77 5m blade
Wind Turbine Elevations & Plan	urbine Is & Plan
ROJECT KILE REPOWERING,	arm Repowering,
Co. F	Co. Kerry
DRAWING BY: Joseph O Brien	CHECKED BY: Orla Murphy
PROJECT No.: 211107	DRAWING No.: 211107 - 28
scale: 1:500 @A1	DATE: 13.05.2024
< Š Š	MKO Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie

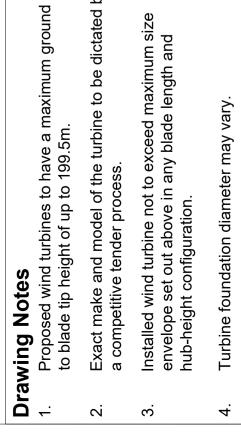


D	Drawing Notes
<del>.</del> .	Proposed wind turbines
	to blade tip height of up
2.	Exact make and model c
	a competitive tender pro
ю.	Installed wind turbine no
	envelope set out above

- σ osed wind turbines to have a n ade tip height of up to 200m. 5 <u>5</u>
- þe **t** Exact make and model of the tu a competitive tender process.
  - d Si an B illed wind turbine not to exceed maxi slope set out above in any blade leng height configuration. Ъ
    - Ň Ε Ę Ð 5. .
- nts the top of turb ē und lev 0 D

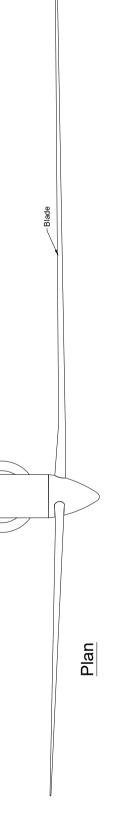


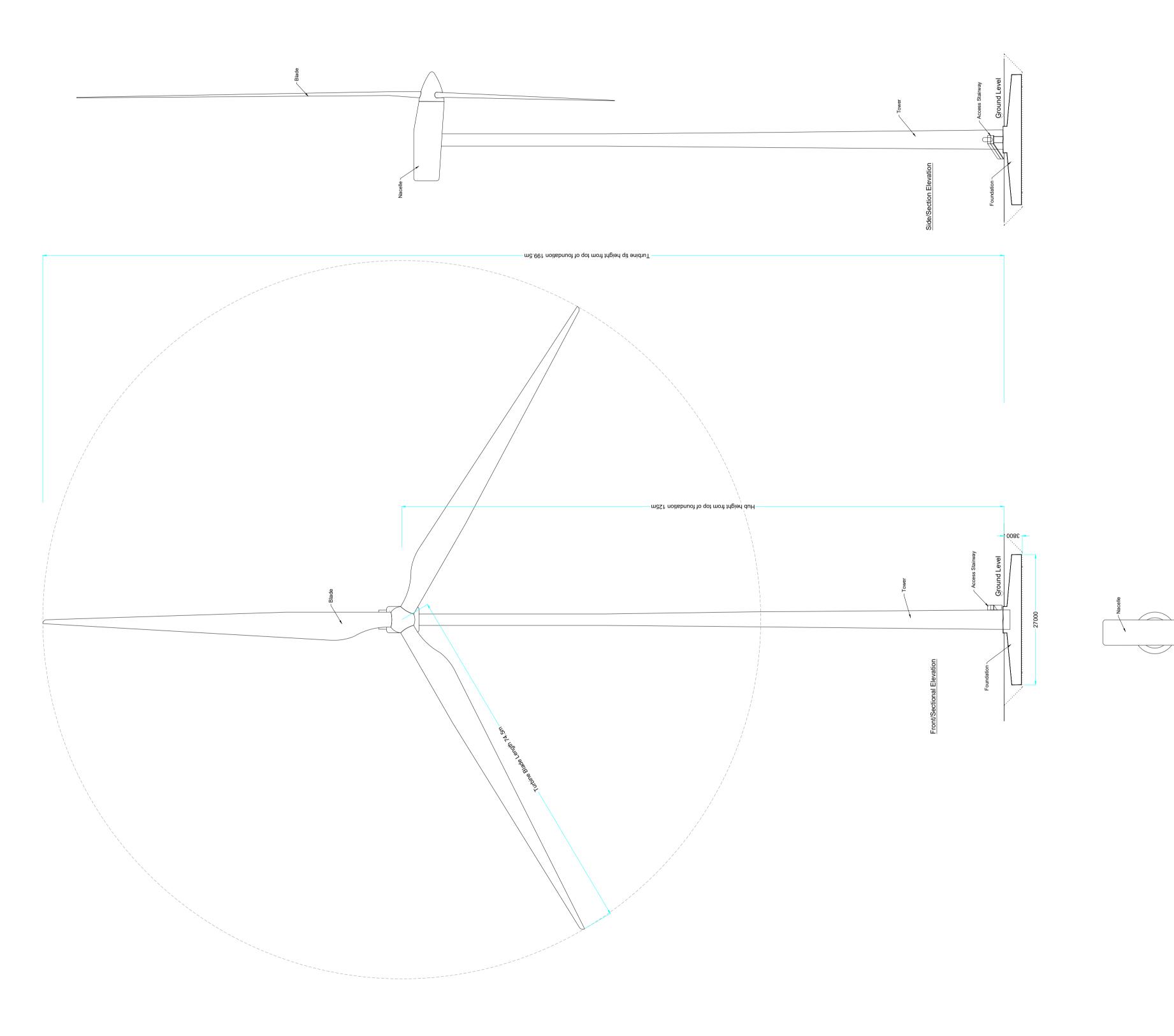
118m hub and 81.5m blade Wind Turbine	81.5m blade urbine
Elevations & Plan	s & Plan
PROJECT WILE KIIGarvan Wind Farm Repowering,	arm Repowering,
Co. F	Co. Kerry
DRAWING BY: Joseph O Brien	CHECKED BY: Orla Murphy
PROJECT No.: 211107	DRAWING No.: 211107 - 29
scale: 1:500 @A1	DATE: 13.05.2024
< Š	MKO Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie



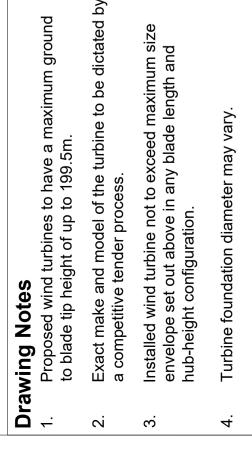
Turbine foundatio
 Ground level representation

Ground level represents the top of turbine fou





DRAWING TITLE: 125m hub and 74.5m blade	74.5m blade
Wind Turbine Elevations & Plan	urbine is & Plan
PROJECT TITLE: Kilgarvan Wind Farm Repowering,	arm Repowering,
Co. F	Co. Kerry
DRAWING BY: Joseph O Brien	CHECKED BY: Orla Murphy
PROJECT No.: 211107	DRAWING No.: 211107 - 30
scale: 1:500 @A1	DATE: 13.05.2024
<	MKO Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.ie Website: www.mkoireland.ie

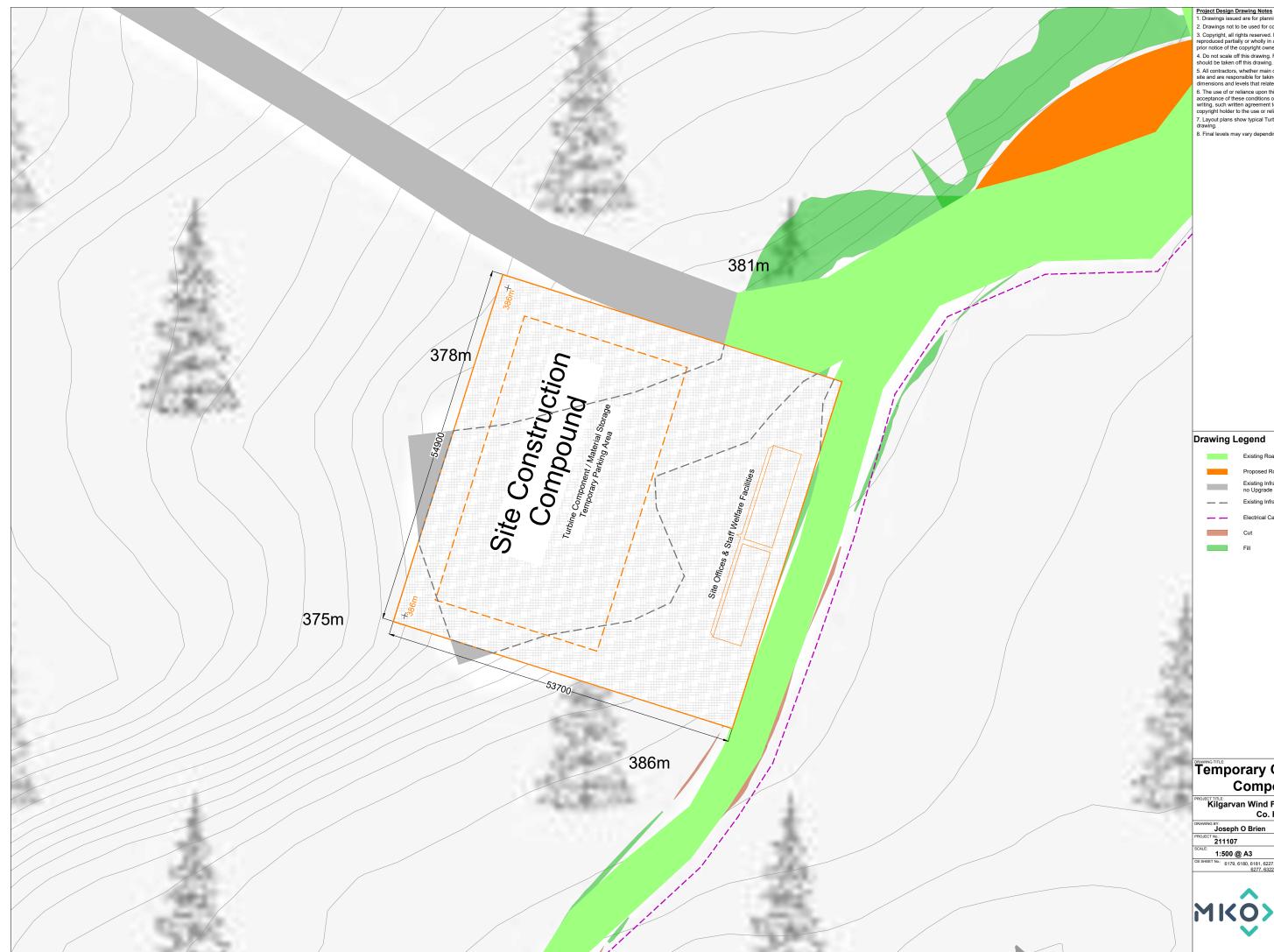


5. 4.

ents the top of turbi repr Ground level







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7. Layout plans show typical Turbine rotor diameter as per turbine drawing.
8. Final levels may vary depending on local ground conditions.

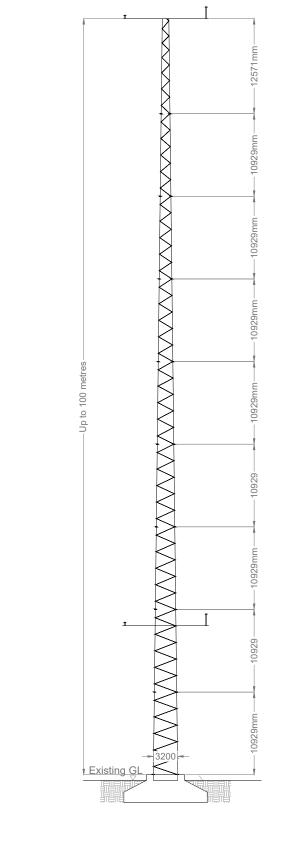
#### Drawing Legend

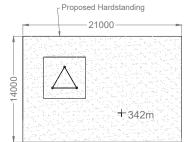
-	-
	Existing Road to be Upgraded
	Proposed Road
	Existing Infrastructure no Upgrade Proposed
	Existing Infrastructure Footprint
	Electrical Cable Trench
	Cut
	Fill

# Temporary Construction Compound 2

Kilgarvan Wind Farm Repowering, Co. Kerry				
Joseph O Brien	CHECKED BY: Orla Murphy			
PROJECT No.: 211107	DRAWING No.: 211107 - 32			
SCALE: 1:500 @ A3	DATE: 13.05.2024			
	, 6228, 6229, 6275, 6276, , 6323, 6324			
	мко			

Environmental Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mko Vebsite: www.mk





Met Mast Compound Plan

#### Drawing Notes

 Met mast on site will either be guyed met mast or free standing met mast depending on site conditions. Both options shown only one will be upped used.

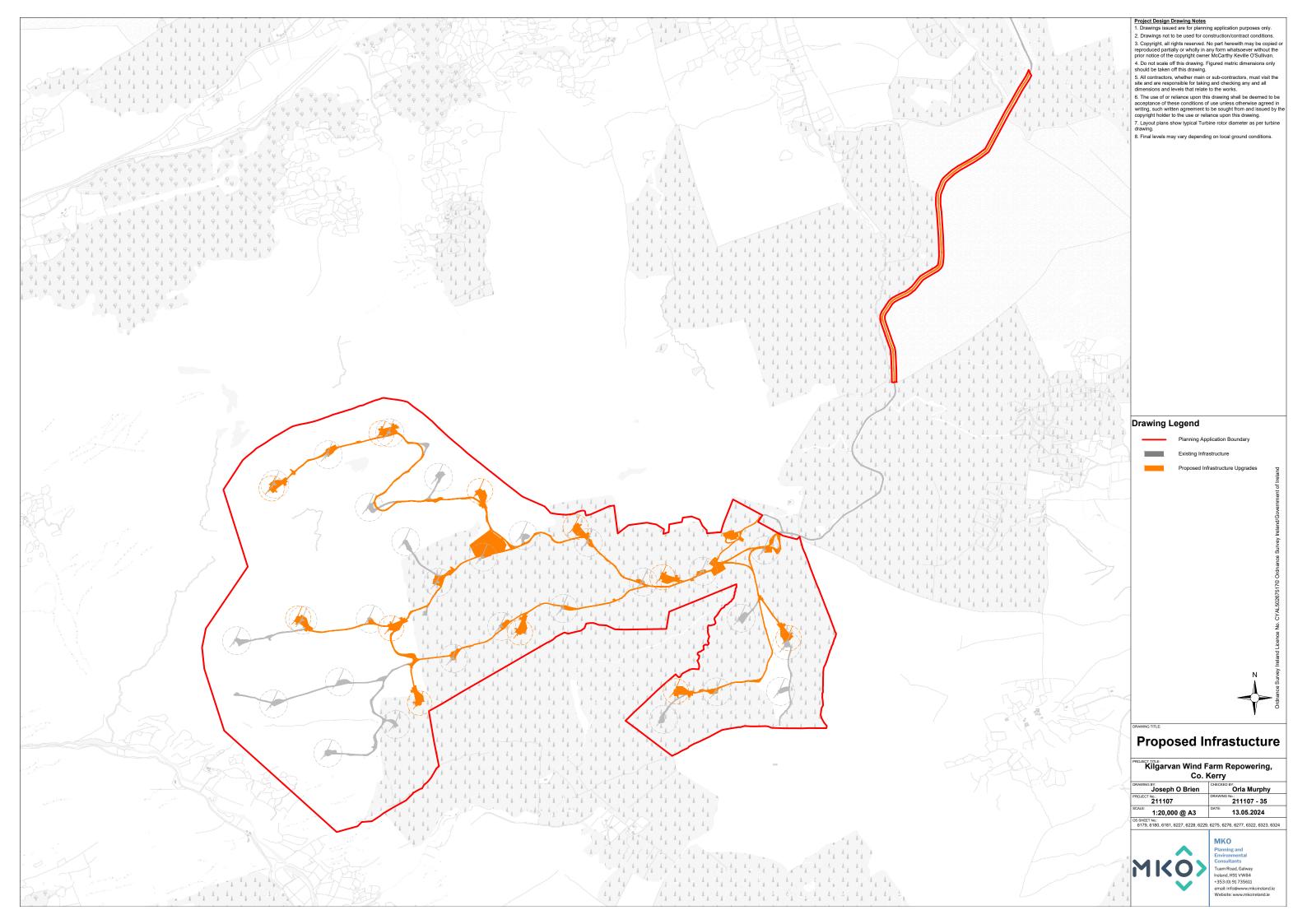
#### Met Mast - Free Standing Mast یتوت ۲۳۳۱-۱۹ Kilgarvan Wind Farm Repowering, Co. Kerry Joseph O Brien Orla Murphy [™]211107 211107 - 33 1:500 @ A3 13.05.2024

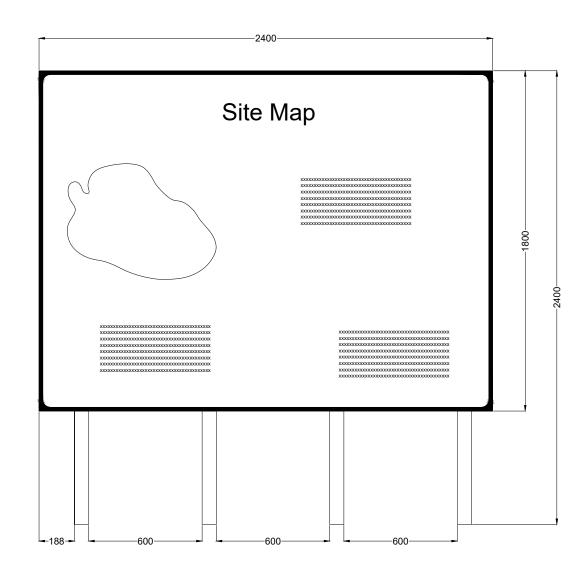
мко́> V

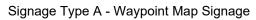
MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoi Website: www.mkoirel

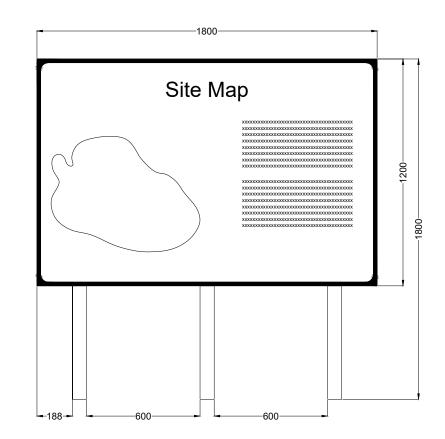
land.ie





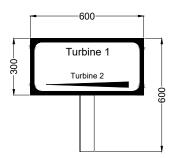






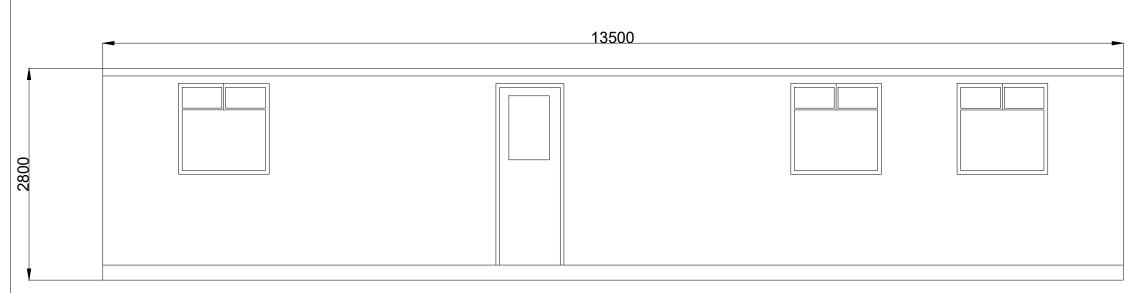
Signage Type B -Entry Point Signage

#### Note For illustrative purposes only exact details to be confirmed

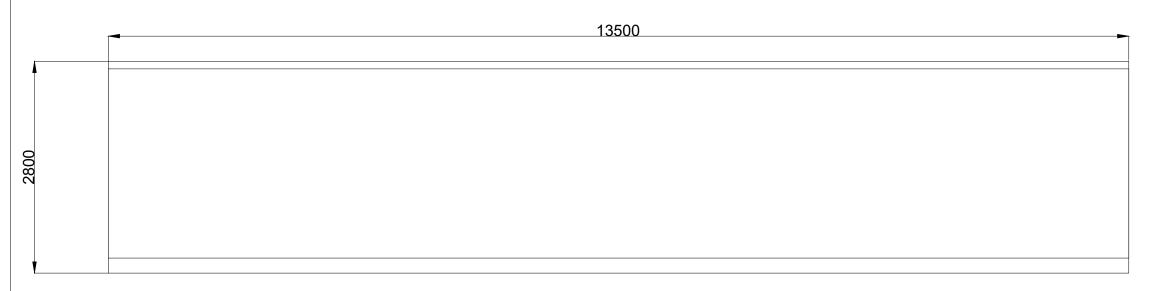


Signage Type C - Way Point Direction Signage

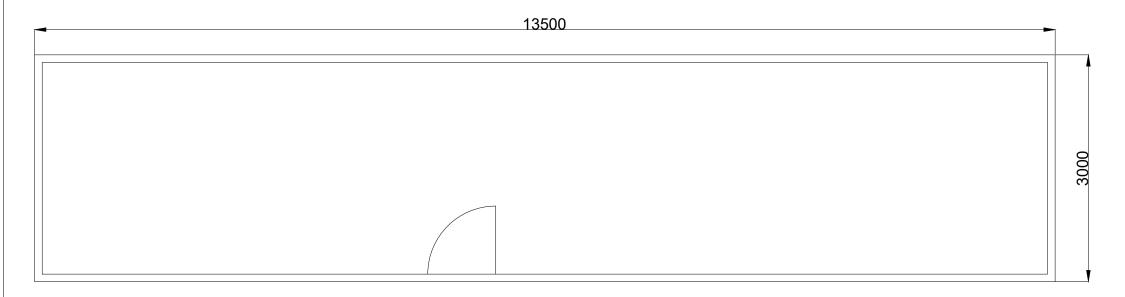
DRAWING TITLE Signage Detail PROJECT TITLE Kilgarvan Wind Farm Repowering, Co. Kerry				
PROJECT No.: 211107	DRAWING No.: 211107 - 36			
SCALE: 1:20 @ A3 DATE: 13.05.2024				
мко̂	MKO Planning and Environmental Consultants Tuam Road, Galway Ireland, H91 W84 +353 (0) 91 735611 email: Inf@yww.mkoireland.ie Website: www.mkoireland.ie			



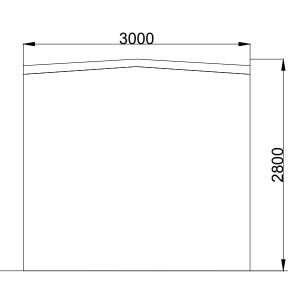
### FRONT ELEVATION



### **REAR ELEVATION**



### PLAN VIEW



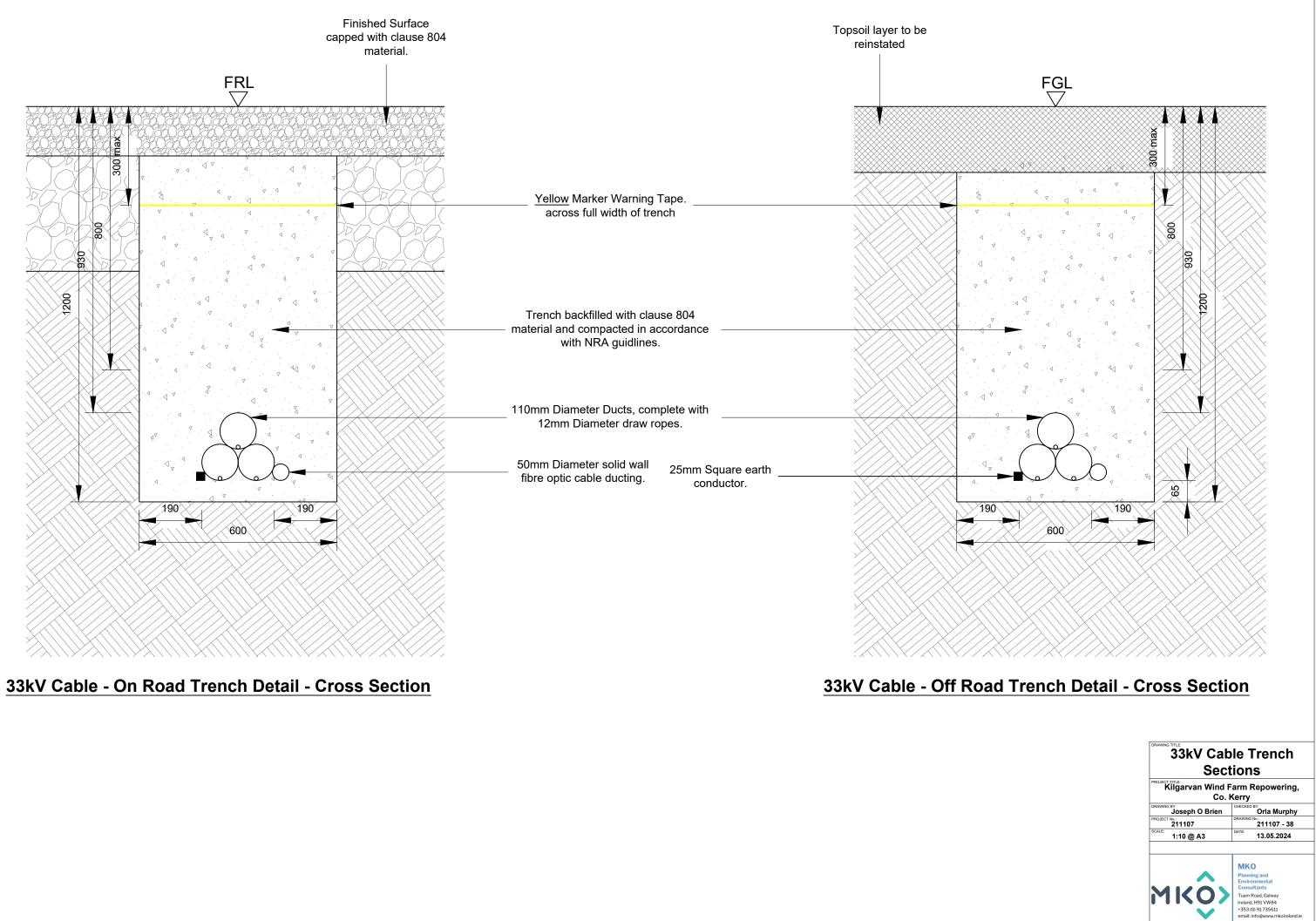
### SIDE ELEVATION



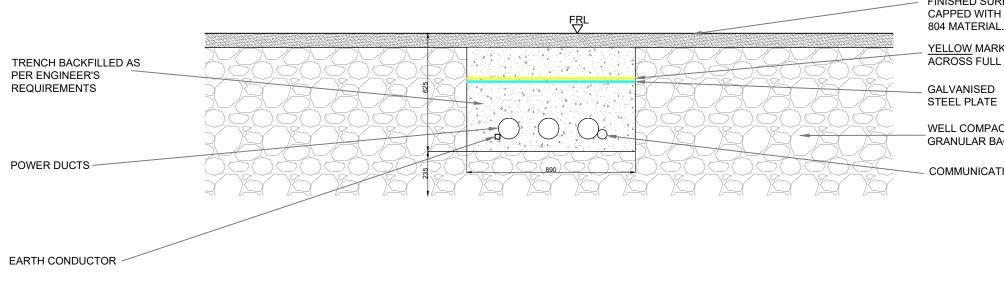


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Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mko Website: www.mkoire



ebsite: www.



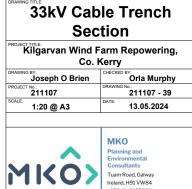


FINISHED SURFACE CAPPED WITH CLAUSE 804 MATERIAL.

YELLOW MARKER WARNING TAPE. ACROSS FULL WIDTH OF TRENCH

WELL COMPACTED

COMMUNICATION DUCT

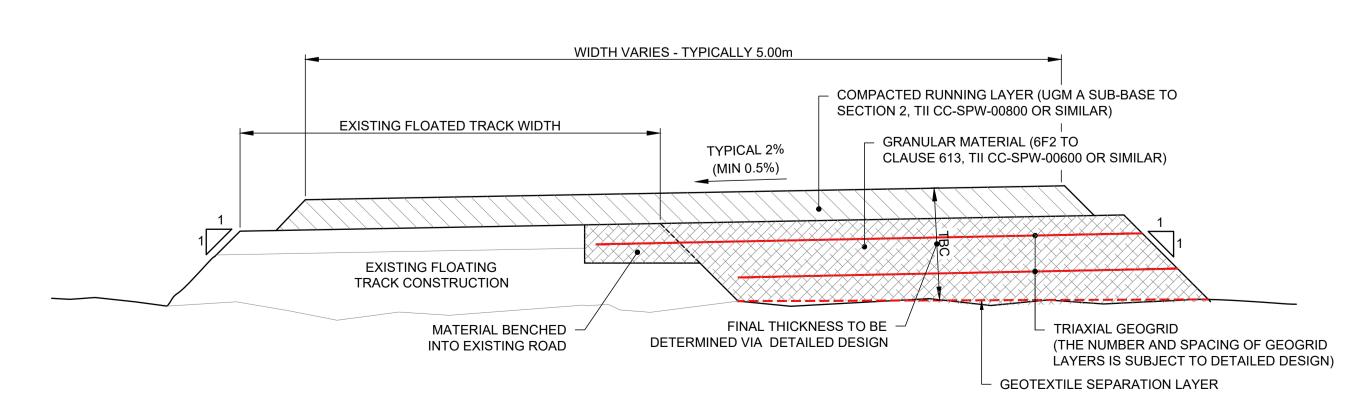


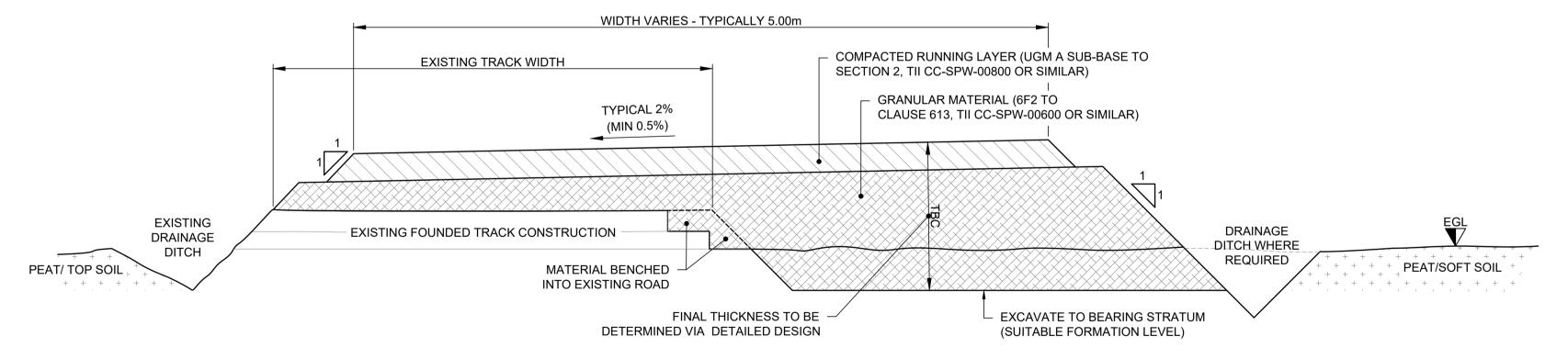
nsultants Consultants Tuam Road, Galway Ireland, H91 VW84 +353 (0) 91 735611 email: info@www.mkoireland.i Website: www.mkoireland.ie



SCALE: SHOWN	A1	DATE: 24/10/2022
DRAWN BY: J.F.G	CHECKED BY: S.C.	APPROVED BY: J.O'D

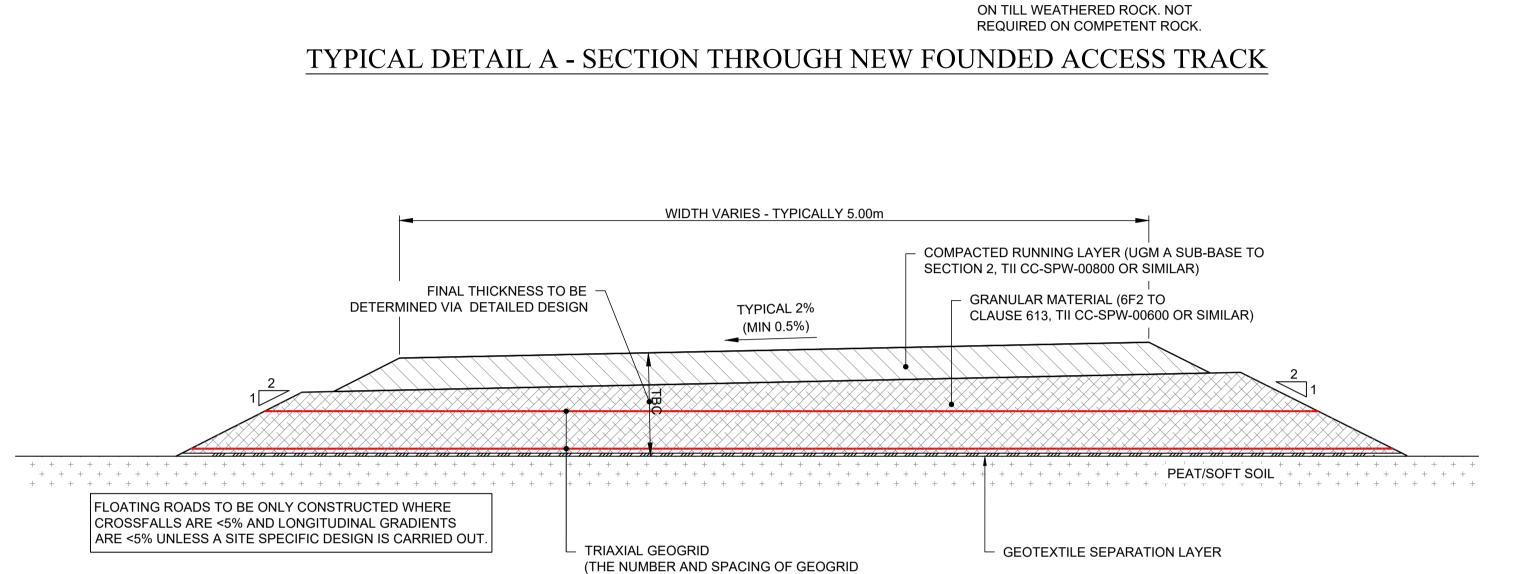
# TYPICAL DETAIL D - WIDENING OF EXISTING FLOATING TRACK

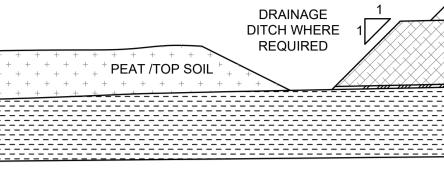




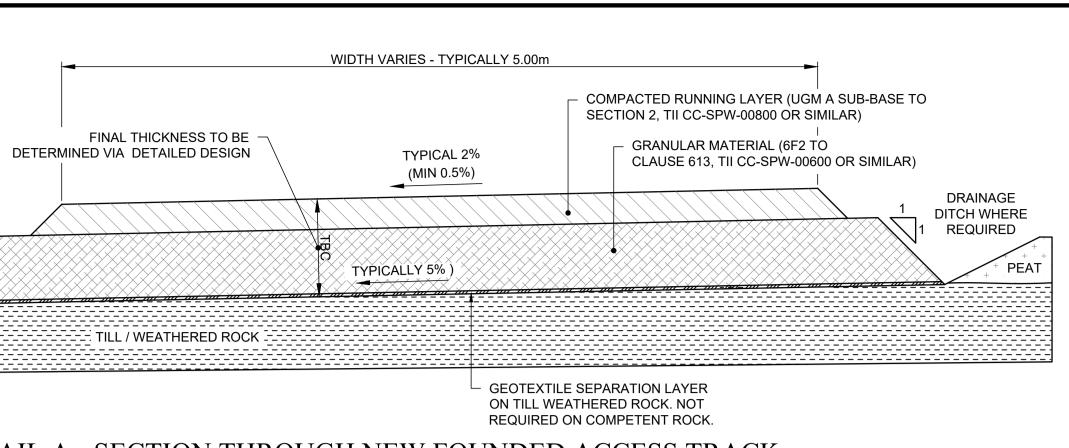
# TYPICAL DETAIL B - SECTION THROUGH NEW FLOATED ACCESS TRACK

LAYERS IS SUBJECT TO DETAILED DESIGN)



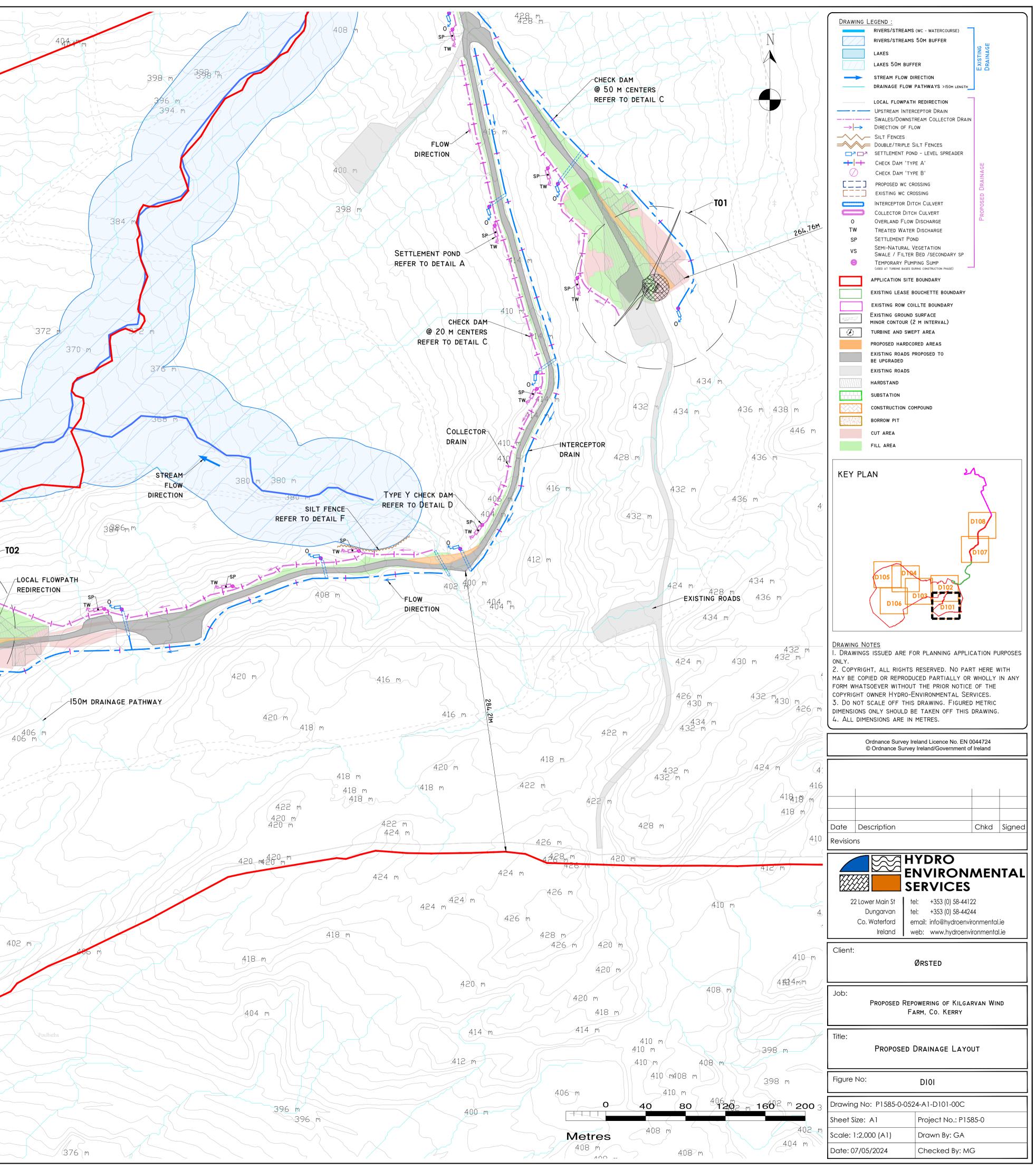


# TYPICAL DETAIL C - WIDENING OF EXISTING FOUNDED TRACK

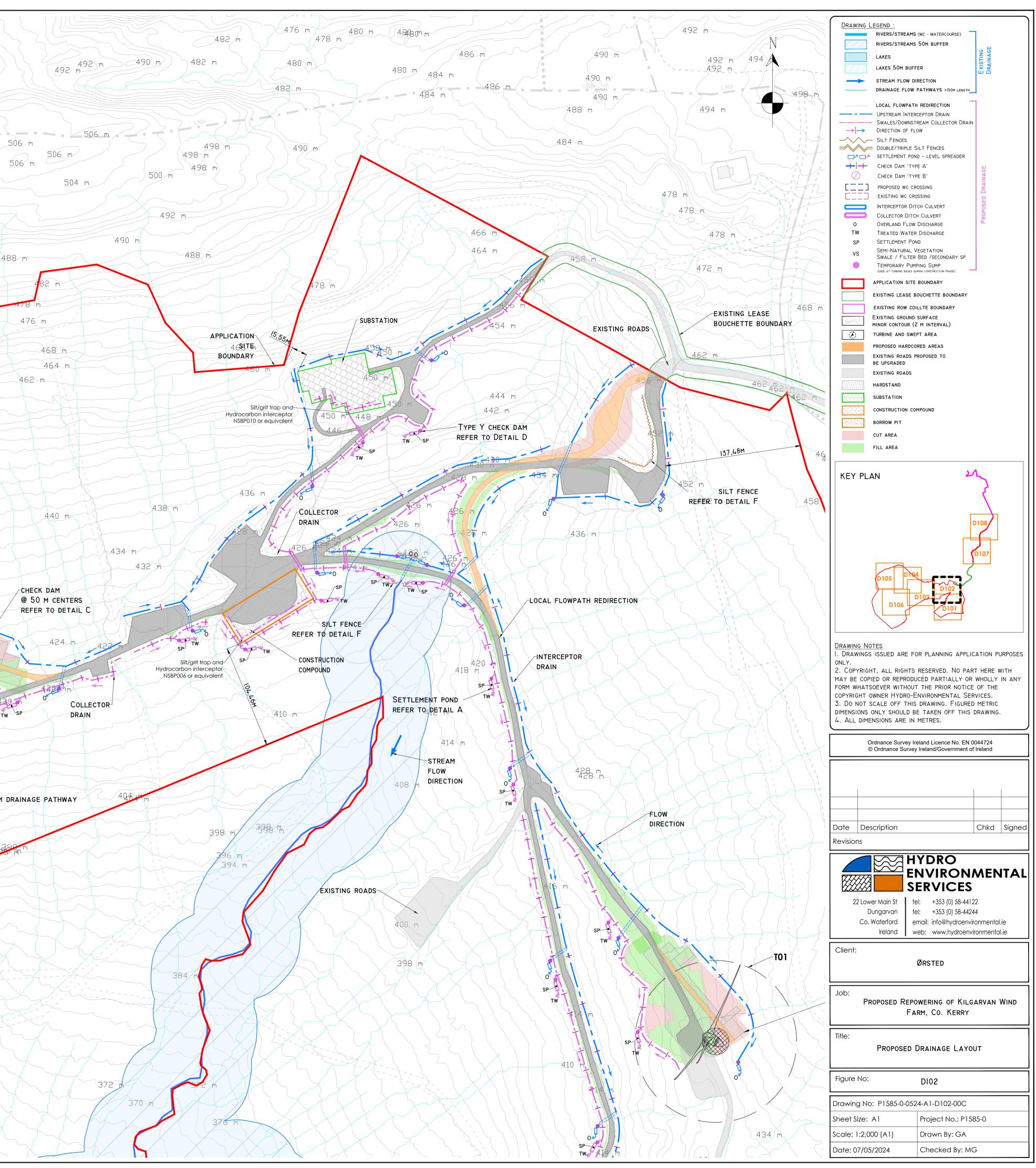


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	MENSIONS ARE IN MET RWISE STATED.	RES UNLESS
	T SCALE FROM THIS D TRENGTH OF THE SUB	
TO BE	ASSESSED BY A SUITA	ABLY QUALIFIED
CONST	ECHNICAL ENGINEER P TRUCTION / PLACEMEN	NT OF FILL.
DRAIN	AGE TO BE PROVIDED AGE STRATEGY.	
	ING REPRESENTS INDI IING ONLY, <b>NOT FOR C</b>	
DE1/-		
REV: FI -00 DESCRIPTION:	DATE: 12/01/22 DRAW ISSUED FOR INFORMATION	N BY: R.R. CHECKED BY: S.C
11-00	12/01/22	
11-00	12/01/22	Unit A2, Nutgrove Office Park,
11-00	12/01/22	Unit A2, Nutgrove Office Park, Rathfarnham,
DESCRIPTION:	ISSUED FOR INFORMATION	Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland.
DESCRIPTION:	12/01/22	Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000
DESCRIPTION:	ISSUED FOR INFORMATION	Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland.
DESCRIPTION:	ISSUED FOR INFORMATION	Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 E info@gdgeo.com www.gdgeo.com
DESCRIPTION: G A V I N G E O S	ISSUED FOR INFORMATION	Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 E info@gdgeo.com www.gdgeo.com
DESCRIPTION: G A V I N G E O S ISSUED AS:	ISSUED FOR INFORMATION	Unit A2, Nutgrove Office Park, Rathfarnham, Dublin 14, D14 X627 Ireland. T +353 (0)1-2071000 E info@gdgeo.com www.gdgeo.com
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POLLUTION PREVENTION NOTES: 1. Site management proposals are intended to ensure protection		/ DRAINAGE COINTROLS AVAILABLE OR USE ACROSS THE SITE	
AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION. 2. SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO DESUFUL CONVERTING OF OUTPUT ADDRESS OF OUT TO OFF OUTP	Management Type	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS	
TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES. 3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND. TEMPORARY STOCKPILES, PLANT AND WHEEL	Avoidance	<ol> <li>APPLICATION OF 50M BUFFER ZONES TO NATURAL</li> <li>WATERCOURSES WHERE POSSIBLE</li> <li>APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE</li> </ol>	
WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.	CONTROLS	<ul><li>3) USING SMALL WORKING AREAS</li><li>4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED</li></ul>	33989 mm m
DISCHARGES 4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM		WET WEATHER I) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES,	
NEAREST WATERCOURSE UNLESS OTHERWISE STATED. 5. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.		VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS:	
<ol> <li>PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.</li> </ol>	SOURCE CONTROLS:	<ul> <li>A) SAND BAGS</li> <li>B) OYSTER BAGS FILLED WITH GRAVEL</li> <li>C) FILTER FABRICS</li> <li>D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE</li> </ul>	
7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH		3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING	
PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS. 8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.		5) WEATHERING OFF / SEALING PEAT STOCKPILES I) INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED	
EXCAVATIONS 9. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO		SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL	372 m
REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS. EXPOSED GROUND & STOCKPILES		C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS	
10. THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.	IN-LINE CONTROLS:	F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.	
<u>SITE TRACKS</u> II. Use of track side swales with check dams, and/or filtration check dams will reduce silt in runoff water as required. I2. Check dams to be inspected and cleaned regularly.		<ul> <li>3) SILT FENCES, FILTER FABRICS</li> <li>4) IN STREAM SEDIMATS</li> <li>5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS</li> </ul>	
REFUELING I3. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED		5) ATTENUATION PONDS 6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS	
REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS		<ol> <li>TEMPORARY SUMPS</li> <li>ATTENUATION PONDS</li> <li>TEMPORARY STORAGE PONDS</li> </ol>	
REQUIRED. <u>Concrete</u> 15. Care will be taken when completing concrete works on site to	WATER IREATMENT CONTROLS:	4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.	
ENSURE NO DISCHARGES OCCUR. 16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE.		6) SILT DEWATERING BAGS I) LEVELSPREADERS	
IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:	OUTFALL CONTROLS:	<ol> <li>2) BUFFERED OUTFALLS</li> <li>3) VEGETATION FILTERS</li> <li>4) SILT DEWATERING BAGS</li> <li>5) FLOW LIMITERS AND WEIRS</li> </ol>	148 m
$\underline{STOP}$ - work in the immediate area should be stopped and the source of the pollution identified.	355 m m		
<u>CONTAIN</u> - the source of the pollution should be bunded using a suitable method. Natural watercourses should be temporarily diverted around the source of pollution.	$\sum$	350	
NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / Local Authority etc.) should be notified immediately to ensure that			
MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE AREAS.			
DRAINAGE NOTES: I. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO			0
	(+ ) ··· )	358 m	PR PR
ENGINEER'S SPECIFICATION (I.E. BY OTHERS). 2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR		APPLICATION	SP TW 0
2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR	\$ 352 m		SP
<ul> <li>2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>3. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE</li> </ul>	\$ 352 m	APPLICATION	SP TW
<ol> <li>SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.</li> <li>SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING</li> </ol>	352 m	APPLICATION	SP TW
<ol> <li>SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.</li> <li>SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE</li> </ol>	352 m	APPLICATION	
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POLLUTION PREVENTION NOTES: I. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION		/ DRAINAGE COINTROLS AVAILABLE	177 II 470 PI
AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.	Management Type	DESCRIPTION OF SUDS DRAINAGE CONTROL	494 m 498 A98 m
<ol> <li>SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.</li> </ol>		METHODS I) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE	
3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS		2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE	502 m
AND DITCHES.	CONTROLS	<ul><li>3) USING SMALL WORKING AREAS</li><li>4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED</li></ul>	500 m 498 m 498 m
DISCHARGES 4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO		I) USE OF UPSTREAM INTERCEPTOR DRAINS AND	
EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.		DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES	500 m504 m
<ol> <li>NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.</li> <li>PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED</li> </ol>	Source Controls:	<ul> <li>2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS:</li> <li>A) SAND BAGS</li> <li>B) OYSTER BAGS FILLED WITH GRAVEL</li> </ul>	505474m m Coomagdarlahy
IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE. 7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN	SOURCE CONTROLS:	C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE	504 m 502 m
DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS		SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING	498 m
<ul> <li>WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS.</li> <li>8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES</li> </ul>		5) WEATHERING OFF / SEALING PEAT STOCKPILES	
UNLESS ABSOLUTELY NECESSARY.		<ol> <li>INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED</li> <li>SWALES/COLLECTOR DRAINS</li> <li>EROSION AND VELOCITY CONTROL MEASURES SUCH AS:</li> </ol>	
9. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS		A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS	488 m 48
WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS. EXPOSED GROUND & STOCKPILES		D) STRAW BALES E) FLOW LIMITERS	486 m
10. THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.	IN-LINE CONTROLS:	<ul> <li>F) WEIRS OR BAFFLES</li> <li>G) AND/OR OTHER SIMILAR/EQUIVALENT OR</li> <li>APPROPRIATE SYSTEMS.</li> </ul>	484 m
SITE TRACKS II. Use of track side swales with check dams, and/or filtration check		<ul><li>3) SILT FENCES, FILTER FABRICS</li><li>4) IN STREAM SEDIMATS</li></ul>	480 m
DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED. 12. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.		5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 5) ATTENUATION PONDS	474 m
REFUELING I3. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND		<ul><li>6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS</li><li>1) TEMPORARY SUMPS</li></ul>	470 m
AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS		<ol> <li>ATTENUATION PONDS</li> <li>TEMPORARY STORAGE PONDS</li> </ol>	
REQUIRED.	WATER IREATMENT CONTROLS:	4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR	
<ul> <li>15. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR.</li> <li>16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED</li> </ul>		APPROPRIATE SYSTEMS. 6) SILT DEWATERING BAGS	
APPROPRIATELY ON SITE.		<ul><li>I) LEVELSPREADERS</li><li>2) BUFFERED OUTFALLS</li><li>3) VEGETATION FILTERS</li></ul>	
IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:	CONTALL CONTROLS.	4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS	
$\underline{STOP}$ - work in the immediate area should be stopped and the source of the pollution identified.			
<u>CONTAIN</u> - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A			24.3.8
SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND THE SOURCE OF POLLUTION.			87M
$\underline{NOTIFY}$ - The relevant authorities (Site Manager / Fisheries / NPWS / Local Authority etc.) should be notified immediately to ensure that			
MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE AREAS.			
DRAINAGE NOTES: I. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).		426 m	T03
2. Spare straw bales/silt fencing/ or similar, to be stored on			
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<ul> <li>SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS. IS LINELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.</li> <li>SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.</li> <li>DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS. TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF GROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>WHERE POSSIBLE, A BUFFER ZONE OF &gt;20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES.</li> <li>BATTERS OF ALL PROPOSED SWALES / DITCHES. TO HAVE A SLOPE OF BETWEEN 1: 1.5. TO 1: 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.</li> <li>TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP A</li></ul>	sp 0 0	404 m 406 m	CHECK DAM @ 20 M CENTERS REFER TO DETAIL C
<ul> <li>SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FERVELS, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PIRO TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCENG/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCENG/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCENG/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCENG'S THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.</li> <li>SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.</li> <li>DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>WHERE POSSIBLE, A BUFFER ZONE OF &gt;20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES.</li> <li>BATTERS OF ALL PROPOSED SWALES / DITCHES TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES TO ALLOWED TO DISCHARGE.</li> <li>STALE SO</li></ul>	sp 0 0	404 m 406 m	CHECK DAM @ 20 M CENTERS REFER TO DETAIL C
<ul> <li>SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FERCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE FLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD ON ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD ON ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD ON ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR CHECKS IN ACCESS THACKS IN INTERCEPTOR THE CONSTRUCTION PHASE.</li> <li>SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR WALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.</li> <li>DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS. REGULAR CROSS DRAINS TO BE ACREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>WHERE WORK SCHEWEN SUTFACE WATER OWLE OF &gt;20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES</li></ul>	sp 0 0	404 m 406 m	CHECK DAM @ 20 M CENTERS REFER TO DETAIL C
<ul> <li>SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT FEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FEVELS, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.</li> <li>SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SUBFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.</li> <li>DRAINAGE SWALES / DITCHES TO BE LOCATED ALONG ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS. REGULAR CROSS DRAINS TO BE ALCACEM TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE ACREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>WHALES J DITCHES TO BE VECK LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN I: 1.5 TO I: 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.</li> <li>TRACK SIDE WALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDVEGE TATENT FONDS AND BE CONSTRUCTED FOR SILT CONTAINMENT. WHERE NOESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTI</li></ul>	sp 0 0	404 m 406 m	CHECK DAM @ 20 M CENTERS REFER TO DETAIL C
<ul> <li>SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTEUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LINELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.</li> <li>4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>5. INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DDIAIN OUTFALL POINTS.</li> <li>6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALDING ACCESS TRACKS TO REVENT EXCESSIVE VOLUMES OF WAITER IN INTERCEPTOR RAINS OF ZOOM TO ANY EXISTING WATER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRCCTLY INTO EXISTING WATERCOURSES.</li> <li>7. WHERE POSSIBLE, A BUFFER ZONE OF &gt;20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED VMERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES.</li> <li>8. BATTERS OF ALL PROPOSED SWALES / DITCHES.</li> <li>9. TRACK SIDE SWALES / DITCHES TO BE ADDISCHARGE DIN CONJUNCTION WITH SETLEMENT PONDS AND SLIT TRAPS, PRIOR TO DISCHARGE.</li> <li>10. STETLEMENT PONDS TO BE CONSTRUCTED FOR SULTE MAD WILL BE LEFT AS CUT TO RE-VEGETATE WITH LO</li></ul>	sp 0 0	404 m 406 m	CHECK DAM @ 20 M CENTERS REFER TO DETAIL C
<ul> <li>SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.</li> <li>SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SUBFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE SUBFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.</li> <li>DRAIMAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS, REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE ENSINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>WHERE POSSIBLE, A BUFFER ZONE OF &gt;20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FRM ACCESS TRACK SWALES / DITCHES.</li> <li>BATTERS OF ALL PROPOSED SWALES / DITCHES.</li> <li>BATTERS OF ALL PROPOSED SWALES / DITCHES.</li> <li>MATERCOURSE WILL BE REQUIRED WALES / DITCHES.</li> <li>TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCULING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO</li></ul>	sp 0 0	404 m 406 m	CHECK DAM @ 20 M CENTERS REFER TO DETAIL C
<ul> <li>SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES. STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.</li> <li>SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SUFFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE SUFFACE WATER IN INTERCEPTOR DRAINS TO SULGATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BLICATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACK MATER FLOWS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LORGS DRAINS TO BE LOCATED ALONG ACCESS TRACKS SIDE OF MALES / DITCHES TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO ENSITING WATERCOURSES.</li> <li>WHERE MOSTINGLE, A BUFFER ZONE OF 20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES TO HAVE A SLOPE OF BITWEEN I : 1.5 TO 1 : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS OT ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BITWEEN I : 1.5 TO 1 : 2 DEPENDING UPON DEPTH OF SW</li></ul>	sp 0 0	404 m 406 m	CHECK DAM @ 20 M CENTERS REFER TO DETAIL C 150M D
<ul> <li>SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES. STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE FROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PROR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.</li> <li>SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE ONTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE MATER (LOWS, REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS 01 DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS OF CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS. DITCHES. LOCATIONS OF CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS / DITCHES. LOCATIONS OF CROSS DRAINS TO BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>WHERE POSSIBLE, A BUFFER ZONE OF &gt;20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES TO HAVE A SLOPE OF BETREEN VILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>WHERE POSSIBLE, A BUFFER ZONE OF ZOM TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN I: 1.5 TO 1: 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO REVERT TA COM SULES / DITCHES TO BE SALLE/ONTOH ANY EXISTING W</li></ul>	sp 0 0	404 m 406 m	CHECK DAM @ 20 M CENTERS REFER TO DETAIL C 150M D
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<ul> <li>SITE. THE LEVEL OF SLIT IN RUNOFF DURING CONSTRUCTION IS TO BE TOMOTORED VISUALLY AND EXCESSIVE SUIT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DANS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCTION PHASE.</li> <li>SUTABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONSTRUCTION PHASE.</li> <li>SUTABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONSTRUCTION PHASE.</li> <li>SUTABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONSTRUCTION PHASE.</li> <li>SUTABLE PREVENTION MEASURES SHOULD BE IN DIACE AT ALL TIMES TO PREVENT THE CONSTRUCTION PHASE.</li> <li>SUTABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONSTRUCTION PHASE.</li> <li>SUTABLE PREVENTES ON DOLLITION PREVENTION.</li> <li>SITTERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>SUTRACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.</li> <li>C. DRAINAGE WALLES / DITCHES TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AARED WITH THE ENDINCER ON SITE. SURFACE WATER WILL NOT DE ALLOWED TO DISCHARCE DIRECT1' TO EXISTING WATERCOURSES.</li> <li>WHERE POSSIBLE, A BUFFER ZONE OF SWALES / DITCHES TO ANY EXISTING WATERODRESS WILL AR ADEROST ONE OF SAULE/DITCH AND WILL BE LEFT AS CULT DREVERENT SOURD SURGE CONTALOUS ARE PROPOSED FROM ACCESS STACK SWALES /</li></ul>	402 m 398		CHECK DAM @ 20 M CENTERS REFER TO DETAIL C 150M D
<ul> <li>SITE. THE LEVEL OF SILT IN FUNDER DURING CONSTRUCTION IS TO BE MONITOREN DVIGULLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FEVES. STRAW PAREA TO BE MAILAGE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.</li> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMULAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCENS/OR SIMULAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCENS/OR SIMULAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCENS/OR SOULD BE IN FLACE AT ALL TIMES TO PREVENT THE CONFERNATED DURING THE CONSTRUCTION PHASE.</li> <li>SUBTABLE PREVENTION MEASURES SHOULD BE IN FLACE AT ALL TIMES TO PREVENT THE CONFEXANCE OF SIGNIFICANT YOULMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SUFFACE WATER IN INTERCEPTOR DRAINS TO BE LOCATED ALONG ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE EXHINE REVEY I STACKS OF OREVENT EXCESSIVE YOULMES OF WATER COLLECTING IN THE SMALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE EXHINCE BALLS. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE SMALES / DITCHES TO BEYES TO HAVE A SLOPE OF DECENT WITH CONCARE WATER WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROFOSED FROM ACCESS TRACK SMALES / DITCHES TO HAVE A SLOPE OF BETWELS SITE.</li> <li>WHERE POSSIBLE, A BUFFER ZONE OF 2/OM TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROFOSED FORM ACCESS TRACK SMALES / DITCHES TO HAVE A SLOPE OF BETWELS AND BEACH ORESSING THE CONTROL OF SULTA DATA AREAS. FOR DESTING ANTERCOURSE WITH MOTESTIC BUTCHES TO HAVE A SLOPE OF BETWELS AND THE CONTROL ON THE CREDING BUTH FUNCTION THE SETTING WATERCOURSE</li></ul>	sp 0 402 m 398		CHECK DAM @ 20 M CENTERS REFER TO DETAIL C 150M D 372 M



- . SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND
- EROSION. 2. SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE
- RECEIVING WATERCOURSES. 3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS

#### Discharges

AND DITCHES.

- 4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
- 5. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER
- BUFFER ZONE. 6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND
- DISCHARGE. 7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS
- WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS.
  8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

#### EXCAVATIONS

9. Where deep excavations are proposed cut-off drains will be use to reduce the amount of surface water entering the excavation. This will be the case around turbine base excavations.

#### EXPOSED GROUND & STOCKPILES

 THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.

#### SITE TRACKS

 Use of track side swales with check dams, and/or filtration check dams will reduce silt in runoff water as required.
 Check dams to be inspected and cleaned regularly.

#### Refueling

- 13. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED
- REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

#### CONCRETE

15. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR.

#### CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

 $\underline{STOP}$  - work in the immediate area should be stopped and the source of the pollution identified.

 $\underline{CONTAIN}$  - the source of the pollution should be bunded using a suitable method. Natural watercourses should be temporarily diverted around the source of pollution.

AROUND THE SOURCE OF POLLUTION. NOTIFY - The relevant authorities (Site Manager / Fisheries / NPWS

<u>NOTIFY</u> - The relevant authorities (Site Manager / Fisheries / NPWS / Local Authority etc.) should be notified immediately to ensure that measures can be implemented downstream to protect fisheries and other

#### SENSITIVE AREAS. DRAINAGE NOTES:

I. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).

2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER

SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO. 3. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.

4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.

 INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
 DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE

DIRECTLY INTO EXISTING WATERCOURSES. 7. WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE

PROPOSED FROM ACCESS TRACK SWALES / DITCHES. 8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN I : I.5 TO I : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.

9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE. 10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT

TURBINE BASES AND HARD STAND AREAS. POND SIZES DEPENDS ON THE CATCHMENT AREA BEING SERVED. SAMPLE POND SIZES FOR VARIOUS CATCHMENT AREAS SHOWN ON DRAWING D501. II. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO

AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED. 12. SILT FENCES TO BE PROVIDE ALONG EDGE OF EXISTING WATERCOURSE WHERE WORKS COMES WITHIN <15M OF EDGE OF ANY DITCH / DRAIN /

EPHEMERAL CHANNELS. 13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED

VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.

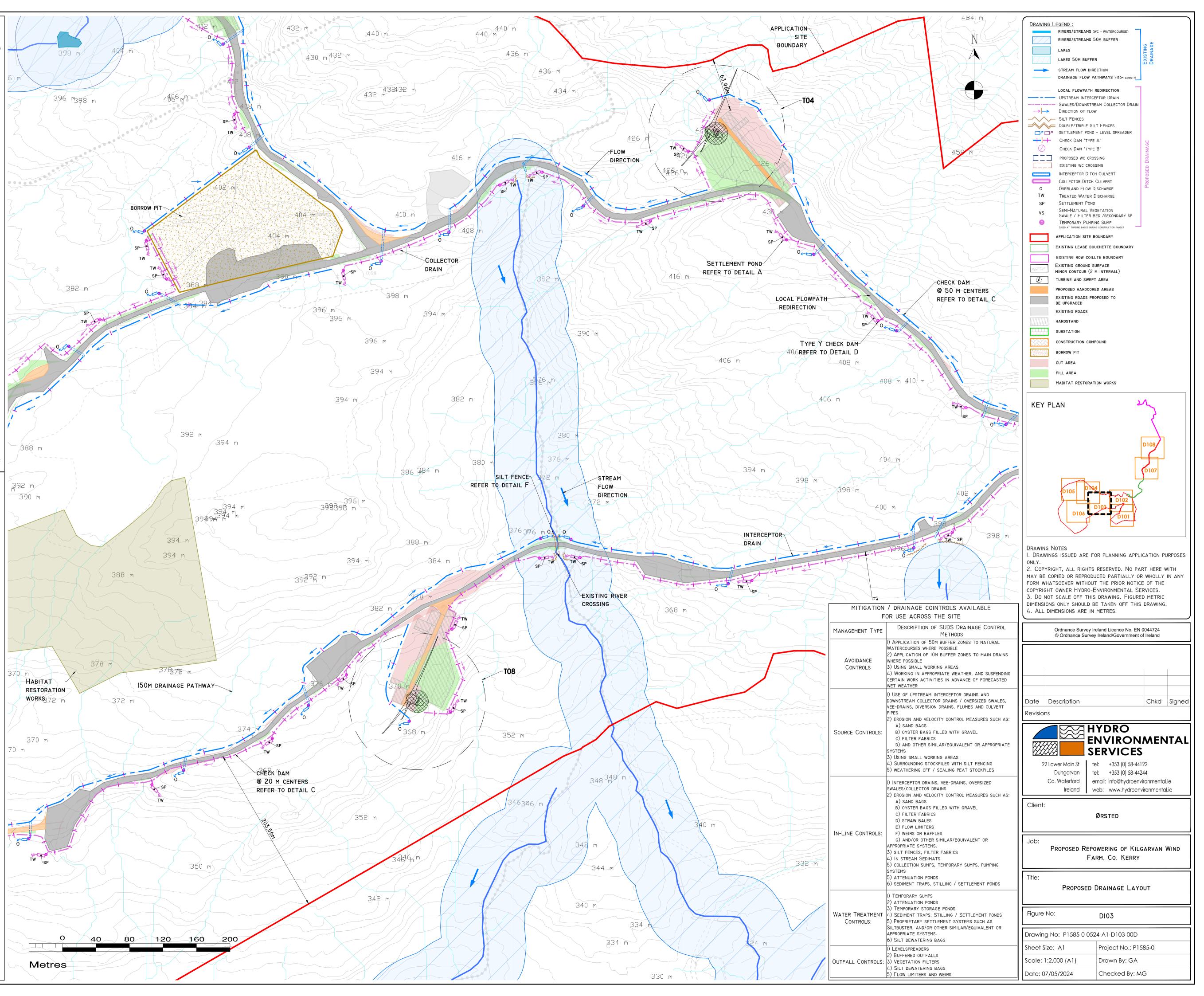
14. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM.
15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY
WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR
STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING
SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM
WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL
FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.

16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.

17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.

18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
19. OIL FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT

STRUCTURES. 20. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.



- . SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.
- SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
- SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

#### Discharges

- 4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEARED THATERCOURSE. IN A TERMINE TO A TERMINE OF A TERMINE.
- NEAREST WATERCOURSE UNLESS OTHERWISE STATED. 5. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
- 6. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND
- DISCHARGE. 7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH
- PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS. 8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

#### EXCAVATIONS

9. Where deep excavations are proposed cut-off drains will be use to reduce the amount of surface water entering the excavation. This will be the case around turbine base excavations.

#### EXPOSED GROUND & STOCKPILES

 THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.

#### SITE TRACKS

 USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
 CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

#### Refueling

- 3. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED
- REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

#### Concrete

- CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR.
   CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED
- APPROPRIATELY ON SITE.

## IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

 $\underline{STOP}$  - work in the immediate area should be stopped and the source of the pollution identified.

 $\underline{CONTAIN}$  - the source of the pollution should be bunded using a suitable method. Natural watercourses should be temporarily diverted around the source of pollution.

 $\underline{NOTIFY}$  - The relevant authorities (Site Manager / Fisheries / NPWS / Local Authority etc.) should be notified immediately to ensure that

MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE AREAS.

#### DRAINAGE NOTES:

I. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).

2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER

SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO. 3. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.

4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.

 INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
 DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.

7. WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES.

8. BATTERS OF ALL PROPOSED SWALES / DITCHES. 8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN I : 1.5 TO I : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.

9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE. 10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT

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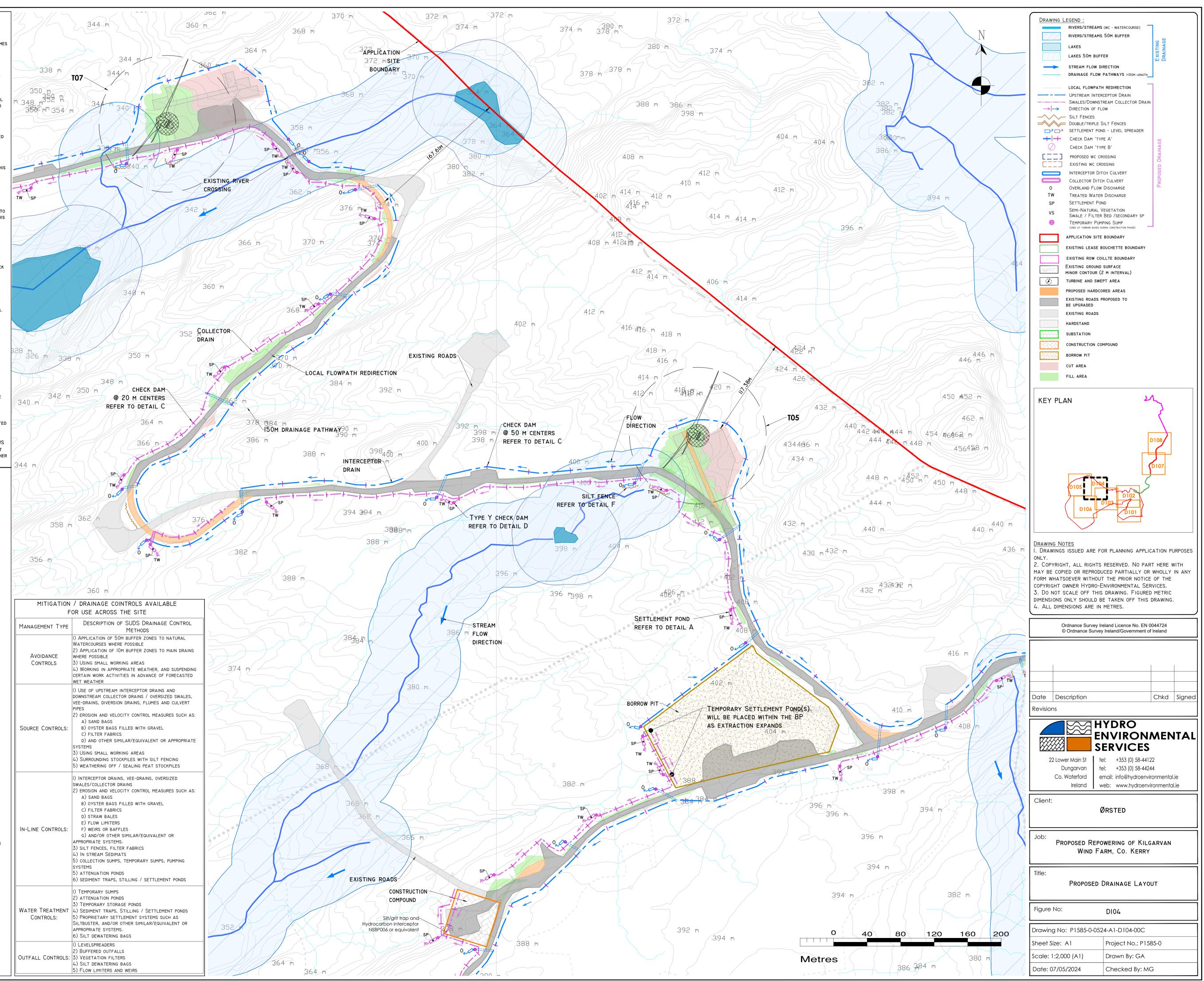
POINTS. 14. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM. 15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.

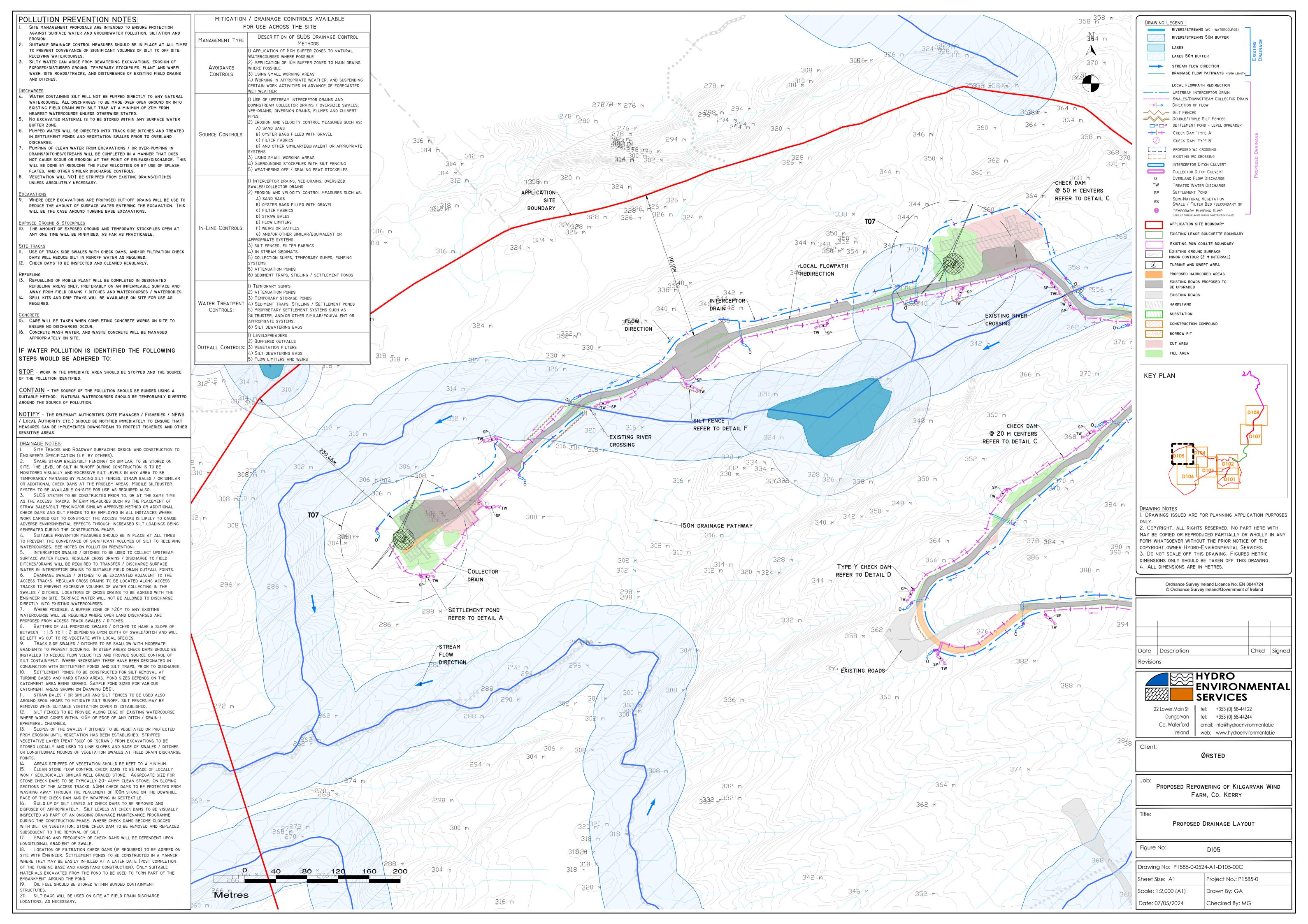
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17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.

18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
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#### Discharges

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- BUFFER ZONE. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND
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#### XCAVATIONS

WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO reduce the amount of surface water entering the excavation. This WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

#### EXPOSED GROUND & STOCKPILES

0. The amount of exposed ground and temporary stockpiles open at ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.

#### SITE TRACKS

USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED. 2. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

#### Refueling

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#### Concrete

- . CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR. . CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED
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#### IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

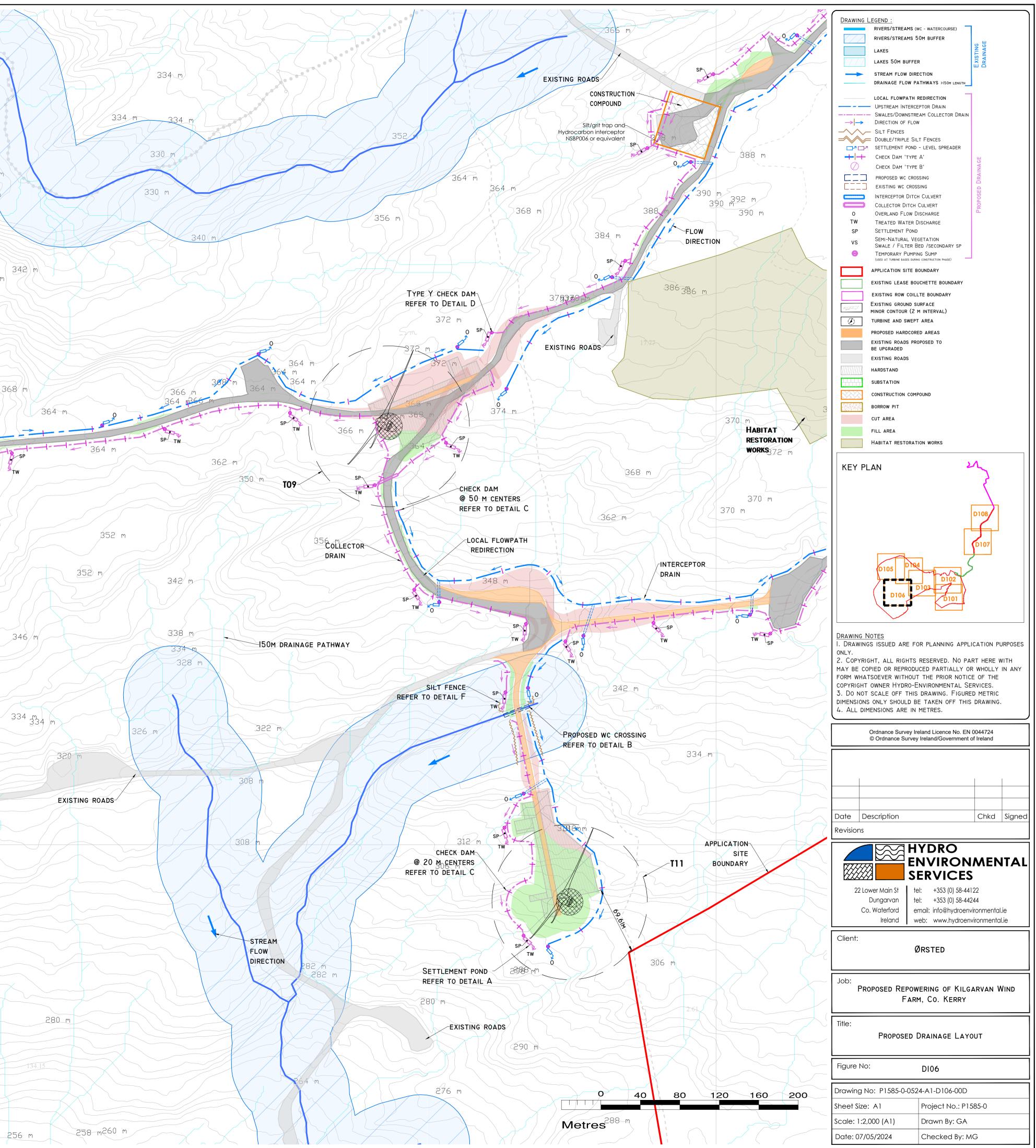
STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

CONTAIN - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND THE SOURCE OF POLLUTION.

NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT

### SENSITIVE AREAS.

- DRAINAGE NOTES: SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).
- SPARE STRAW BALES/SILT FENCING/ OR SIMILAR. TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER
- SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.
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- INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS. 6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE
- DIRECTLY INTO EXISTING WATERCOURSES WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE
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- TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE. 0. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT
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- STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED. 12. SILT FENCES TO BE PROVIDE ALONG EDGE OF EXISTING WATERCOURSE WHERE WORKS COMES WITHIN <15M OF EDGE OF ANY DITCH / DRAIN /
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- 15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM washing away through the placement of 100m stone on the downhill FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.
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- 17. Spacing and frequency of check dams will be dependent upon LONGITUDINAL GRADIENT OF SWALE.
- 18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND. 19. OIL FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT
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- 322 m 306 m 324 m 324 m 330 m 330 m 330 m 330 m 336 m 334338 m 334 m 332 m 330 m 338 m 338 m 344 m 342 m 344 m 346 m /T10~  $366^{\lambda}$ 368/ m 366 m 366 m -+---+----+ 356 m / EXISTING ROADS-360 m MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER 358 m 362 m-360 LEXPERCANNOR 352 m 348 m _350 m 344 m 344 m X 346 m 340 m MITIGATION / DRAINAGE COINTROLS AVAILABLE FOR USE ACROSS THE SITE DESCRIPTION OF SUDS DRAINAGE CONTROL MANAGEMENT TYPE METHODS APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE 328 m 2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS Avoidance WHERE POSSIBLE CONTROLS 3) USING SMALL WORKING AREAS 4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER I) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS SOURCE CONTROLS: B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING PEAT STOCKPILES ) INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS IN-LINE CONTROLS: F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR 282 m APPROPRIATE SYSTEMS. 3) SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMATS 5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 5) ATTENUATION PONDS 6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS I) TEMPORARY SUMPS 2) ATTENUATION PONDS 3) TEMPORARY STORAGE PONDS WATER TREATMENT 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS CONTROLS: 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 6) SILT DEWATERING BAGS I) LEVELSPREADERS 2) BUFFERED OUTFALLS OUTFALL CONTROLS: 3) VEGETATION FILTERS 4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS



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#### Discharges

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- 5. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
- PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.
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#### EXCAVATIONS

O. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

### EXPOSED GROUND & STOCKPILES

10. The amount of exposed ground and temporary stockpiles open at any one time will be minimised, as far as practicable.

#### SITE TRACKS

 USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
 CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

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 REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES.
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 $\underline{STOP}$  - work in the immediate area should be stopped and the source of the pollution identified.

 $\underline{CONTAIN}$  - the source of the pollution should be bunded using a suitable method. Natural watercourses should be temporarily diverted around the source of pollution.

**NOTIFY** - The relevant authorities (Site Manager / Fisheries / NPWS / Local Authority etc.) should be notified immediately to ensure that measures can be implemented downstream to protect fisheries and other sensitive areas.

#### DRAINAGE NOTES:

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2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.

3. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.

4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.

 INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
 DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.

7. WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE

PROPOSED FROM ACCESS TRACK SWALES / DITCHES. 8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN I : 1.5 TO I : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.

9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE. 10. SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT

TURBINE BASES AND HARD STAND AREAS. POND SIZES DEPENDS ON THE CATCHMENT AREA BEING SERVED. SAMPLE POND SIZES FOR VARIOUS CATCHMENT AREAS SHOWN ON DRAWING D501.

 STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.
 SILT FENCES TO BE PROVIDE ALONG EDGE OF EXISTING WATERCOURSE WHERE WORKS COMES WITHIN <15M OF EDGE OF ANY DITCH / DRAIN /</li>

EPHEMERAL CHANNELS. 13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE

POINTS. 14. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM. 15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL

FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE. 16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.

17. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE.

18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND.
19. OIL FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT

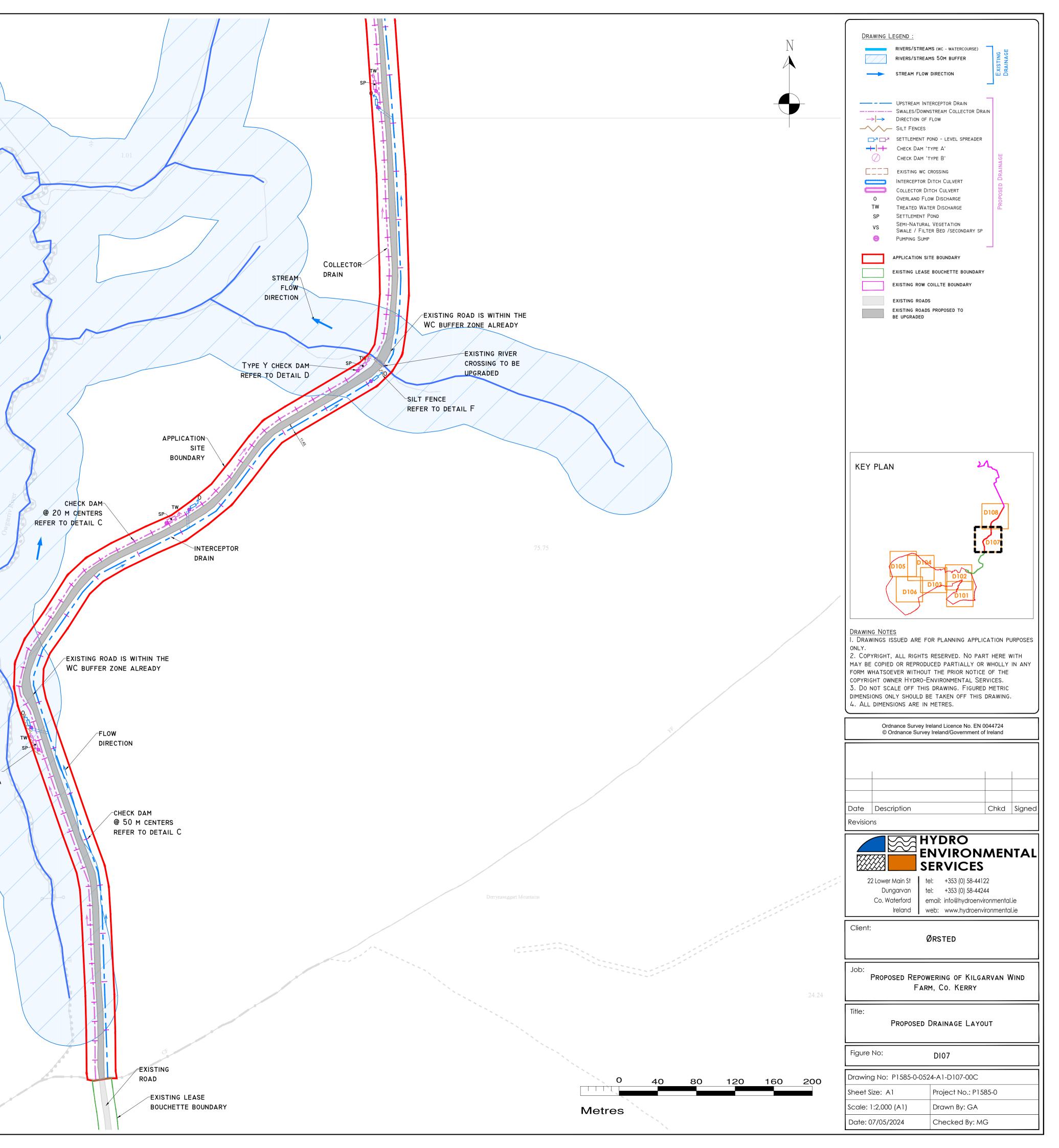
STRUCTURES. 20. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.

	/ DRAINAGE COINTROLS AVAILABLE OR USE ACROSS THE SITE
Management Type	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS
Avoidance Controls	<ol> <li>APPLICATION OF 50M BUFFER ZONES TO NATURAL</li> <li>WATERCOURSES WHERE POSSIBLE</li> <li>APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE</li> <li>USING SMALL WORKING AREAS</li> <li>WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER</li> </ol>
Source Controls:	<ol> <li>USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES</li> <li>EROSION AND VELOCITY CONTROL MEASURES SUCH AS         <ul> <li>A) SAND BAGS</li> <li>B) OYSTER BAGS FILLED WITH GRAVEL</li> <li>C) FILTER FABRICS</li> <li>D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS</li> <li>JUSING SMALL WORKING AREAS</li> <li>SURROUNDING STOCKPILES WITH SILT FENCING</li> <li>WEATHERING OFF / SEALING PEAT STOCKPILES</li> </ul> </li> </ol>
IN-LINE CONTROLS:	<ol> <li>INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS</li> <li>EROSION AND VELOCITY CONTROL MEASURES SUCH AS         <ul> <li>A) SAND BAGS</li> <li>B) OYSTER BAGS FILLED WITH GRAVEL</li> <li>C) FILTER FABRICS</li> <li>D) STRAW BALES</li> <li>E) FLOW LIMITERS</li> <li>F) WEIRS OR BAFFLES</li> <li>G) AND/OR OTHER SIMILAR/EQUIVALENT OR</li> </ul> </li> <li>APPROPRIATE SYSTEMS.</li> <li>SILT FENCES, FILTER FABRICS</li> <li>4) IN STREAM SEDIMATS</li> <li>COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS</li> <li>ATTENUATION PONDS</li> <li>SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS</li> </ol>
WATER TREATMENT CONTROLS:	<ol> <li>TEMPORARY SUMPS</li> <li>ATTENUATION PONDS</li> <li>TEMPORARY STORAGE PONDS</li> <li>SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS</li> <li>PROPRIETARY SETTLEMENT SYSTEMS SUCH AS</li> <li>SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.</li> <li>SILT DEWATERING BAGS</li> </ol>
OUTFALL CONTROLS:	<ol> <li>LEVELSPREADERS</li> <li>BUFFERED OUTFALLS</li> <li>VEGETATION FILTERS</li> <li>SILT DEWATERING BAGS</li> </ol>

4) SILT DEWATERING BAGS

5) FLOW LIMITERS AND WEIRS

SETTLEMENT POND -



- SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND FROSION
- SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIME TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE
- RECEIVING WATERCOURSES. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

#### Discharges

- WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM
- NEAREST WATERCOURSE UNLESS OTHERWISE STATED. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
- PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND
- DISCHARGE. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS
- WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

#### XCAVATIONS

WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.

#### EXPOSED GROUND & STOCKPILES

0. THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.

#### SITE TRACKS

. USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED. 12. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

#### Refueling

. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED

REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

#### CONCRET

5. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR. 6. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED

### APPROPRIATELY ON SITE.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

CONTAIN - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND THE SOURCE OF POLLUTION.

NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER

#### SENSITIVE AREAS. DRAINAGE NOTES:

SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).

2. SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE SILTBUSTER

SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO. SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.

4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.

5. INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS. 6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES

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I. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED. 12. SILT FENCES TO BE PROVIDE ALONG EDGE OF EXISTING WATERCOURSE WHERE WORKS COMES WITHIN <15M OF EDGE OF ANY DITCH / DRAIN /

EPHEMERAL CHANNELS. 13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE

POINTS. 14. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM. 15. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM washing away through the placement of 100m stone on the downhill

FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE. 16. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.

17. Spacing and frequency of check dams will be dependent upon LONGITUDINAL GRADIENT OF SWALE.

18. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND. 19. OIL FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT

STRUCTURES. 20. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.

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#### MITIGATION / DRAINAGE COINTROLS AVAILABLE FOR USE ACROSS THE SITE DESCRIPTION OF SUDS DRAINAGE CONTROL MANAGEMENT TYPE METHODS APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE 2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS Avoidance WHERE POSSIBLE CONTROLS 3) USING SMALL WORKING AREAS 4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER I) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS SOURCE CONTROLS: B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING PEAT STOCKPILES I) INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES E) FLOW LIMITERS IN-LINE CONTROLS: F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 3) SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMATS 5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 5) ATTENUATION PONDS 6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS I) TEMPORARY SUMPS 2) ATTENUATION PONDS 3) TEMPORARY STORAGE PONDS WATER TREATMENT 4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS CONTROLS: 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR

APPROPRIATE SYSTEMS.

2) BUFFERED OUTFALLS

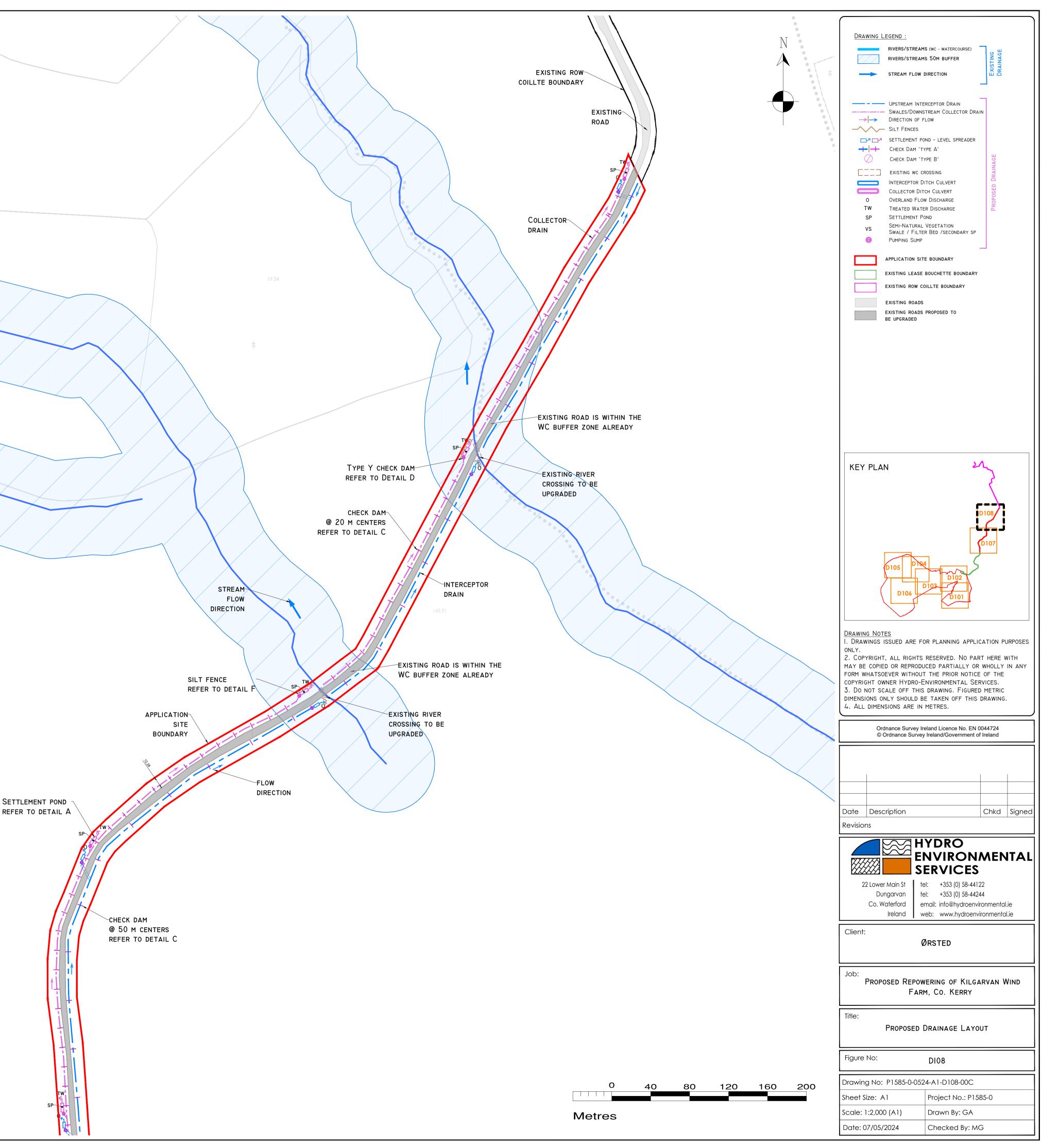
I) LEVELSPREADERS

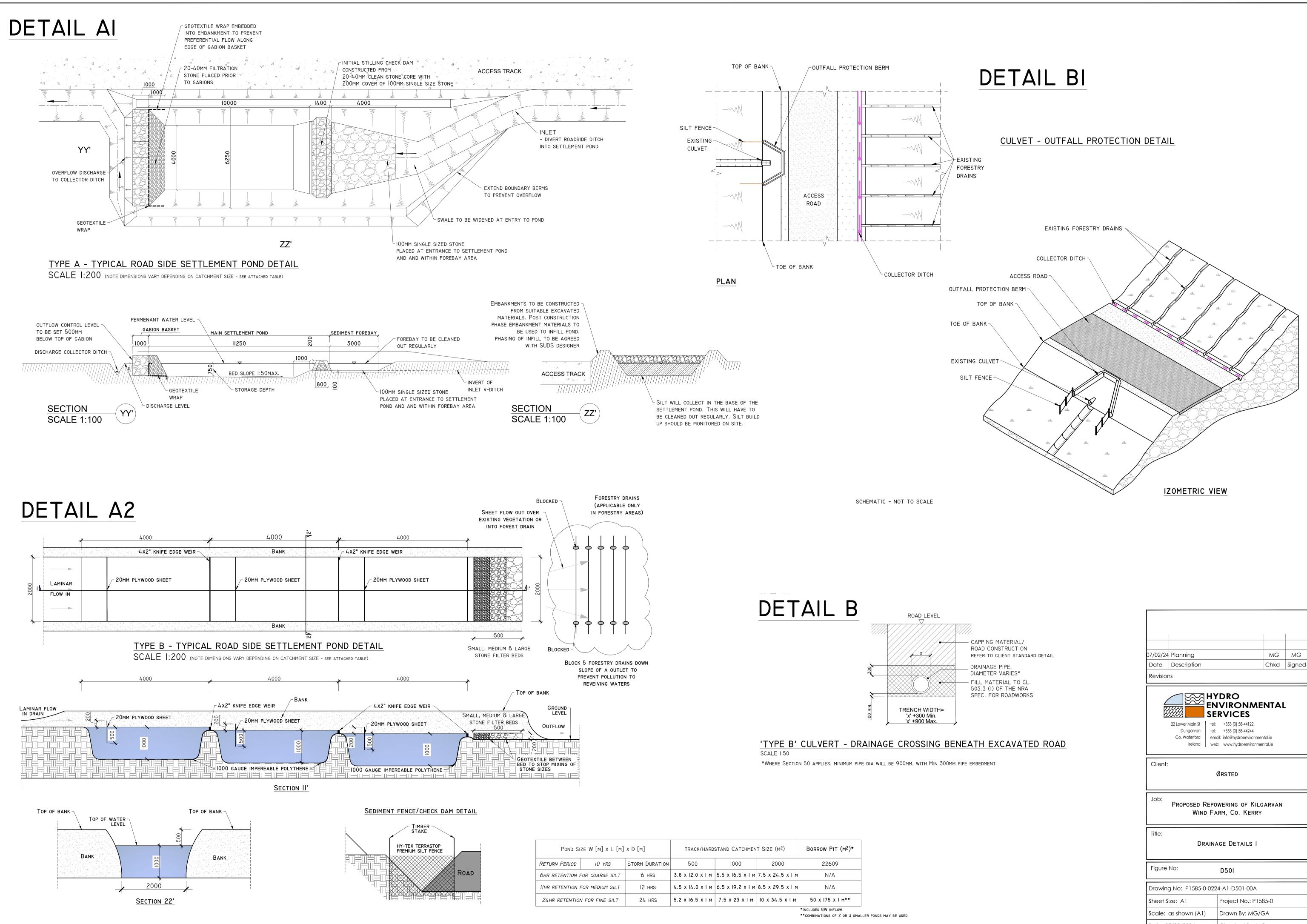
OUTFALL CONTROLS: 3) VEGETATION FILTERS

6) SILT DEWATERING BAGS

4) SILT DEWATERING BAGS

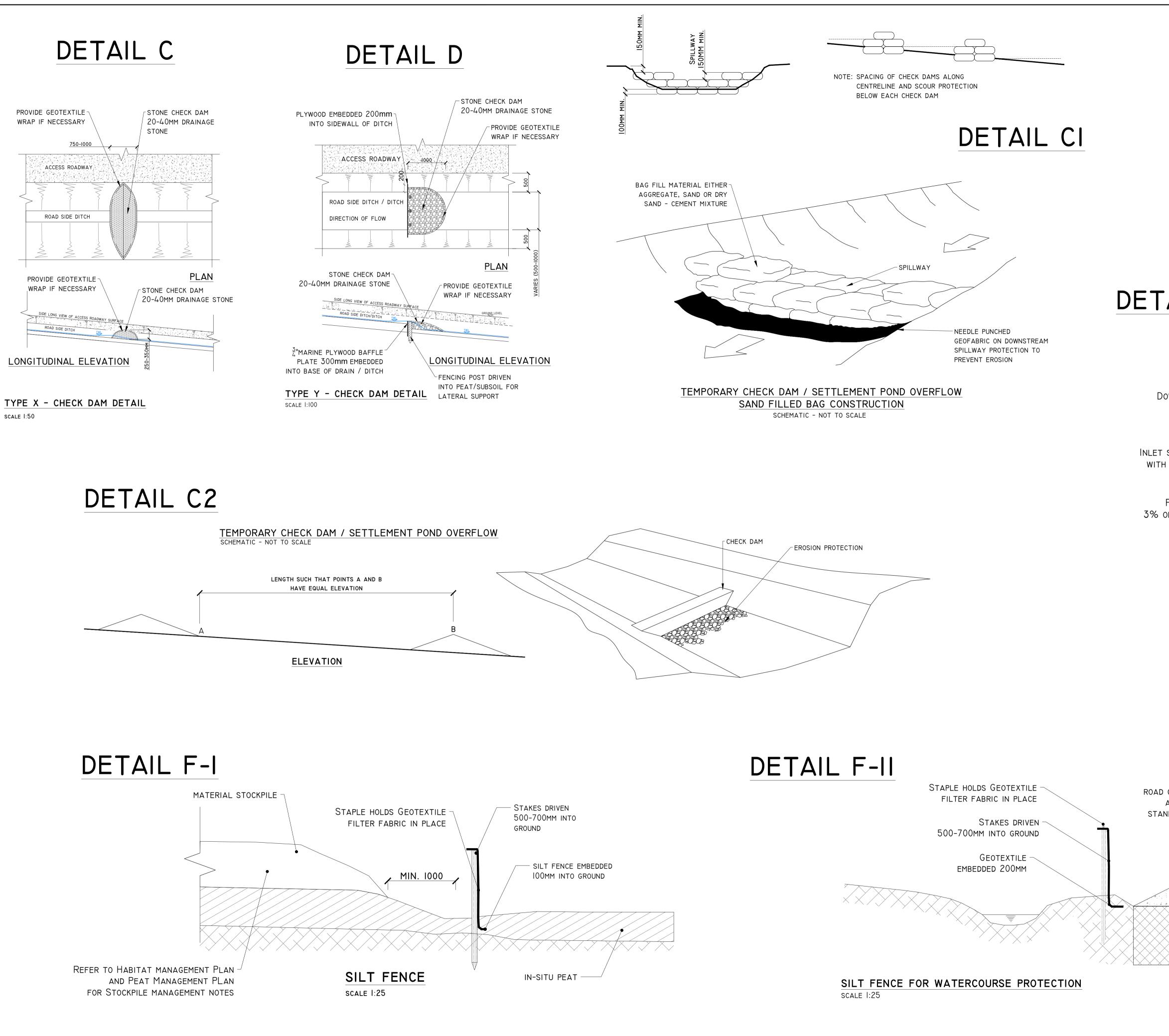
5) FLOW LIMITERS AND WEIRS





POND SIZE W [M] X L [M] X D [M]		TRACK/HARDSTAND CATCHMENT SIZE (M ² )			Borrow Pit (m²)*	
RETURN PERIOD	10 YRS	STORM DURATION	500	1000	2000	22609
6HR RETENTION FOR COARSE SILT 6 HRS		6 HRS	3.8 x 12.0 x 1 m	5.5 х 16.5 х 1 м	7.5 х 24.5 х I м	N/A
Ilhr retention for medium silt 12 Hrs		12 HRS	4.5 x 14.0 x 1 m	6.5 х 19.2 х 1 м	8.5 x 29.5 x I M	N/A
24HR RETENTION FOR FINE SILT 24 HRS		5.2 x 16.5 x I m	7.5 x 23 x I M	10 x 34.5 x I m	50 x 175 x 1 m**	

07/02/24	Planning		MG	MG		
Date	Description		Chkd	Signed		
Revisior	ns					
	With the second state of the second					
Client:	Client: ØRSTED					
Job: Proposed Repowering of Kilgarvan Wind Farm, Co. Kerry						
Title: Drainage Details I						
Figure No: D50I						
Drawing	Drawing No: P1585-0-0224-A1-D501-00A					
Sheet Si	ize: Al	Project No.: P15	85-0			
Scale: o	as shown (A1)	Drawn By: MG/0	GA			
Date: 0	7/02/2024	Checked By: MO	G			



# DETAIL G TYPICAL PIPE SPILLWAY DETAIL SCHEMATIC - NOT TO SCALE Down drain-DIVERSION BANK INLET STABILISED STEEP BATTER TO BE WITH SANDBAGS PROTECTED PIPE SLOPE FLEXIBLE PIPE -3% OF STEEPER 6D 1,3M AT LESS THAN 1% GRADE 3D+0.6M PROJECT DESIGN DRAWING NOTES I. DRAWINGS ISSUED ARE FOR PLANNING STAGE ONLY. 2. COPYRIGHT, ALL RIGHTS RESERVED. NO PART HERE WITH MAY BE COPIED OR REPRODUCED PARTIALLY OR WHOLLY IN ANY FORM WHATSOEVER WITHOUT THE PRIOR NOTICE OF THE COPYRIGHT OWNER HYDRO-ENVIRONMENTAL SERVICES. 3. DO NOT SCALE OFF THIS DRAWING. FIGURED METRIC DIMENSIONS ONLY SHOULD BE TAKEN OFF THIS DRAWING. MG MG 07/02/24 Planning Date Description Chkd Signed ROAD CONSTRUCTION Revisions AS PER CLIENT STANDARD DETAILS SERVICES 22 Lower Main St tel: +353 (0) 58-44122 Dungarvan tel: +353 (0) 58-44244 Co. Waterford email: info@hydroenvironmental.ie Ireland web: www.hydroenvironmental.ie Client: ØRSTED Job: Proposed Repowering of Kilgarvan WIND FARM, CO. KERRY Title: DRAINAGE DETAILS 2 Figure No: D502 Drawing No: P15850-0224-A1-D502-00A

Project No.: P1585-0

Drawn By: MG/GA

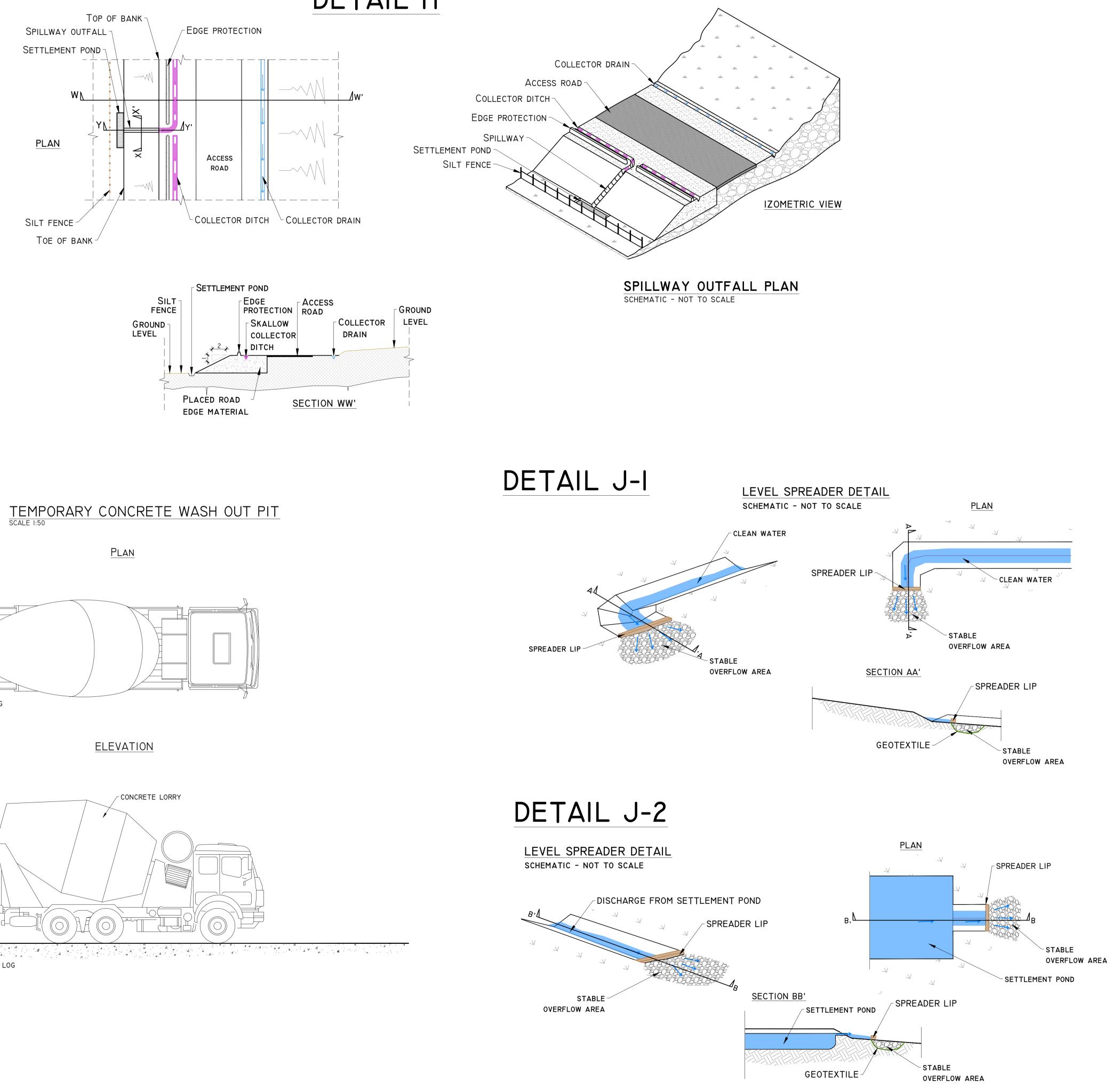
Checked By: MG

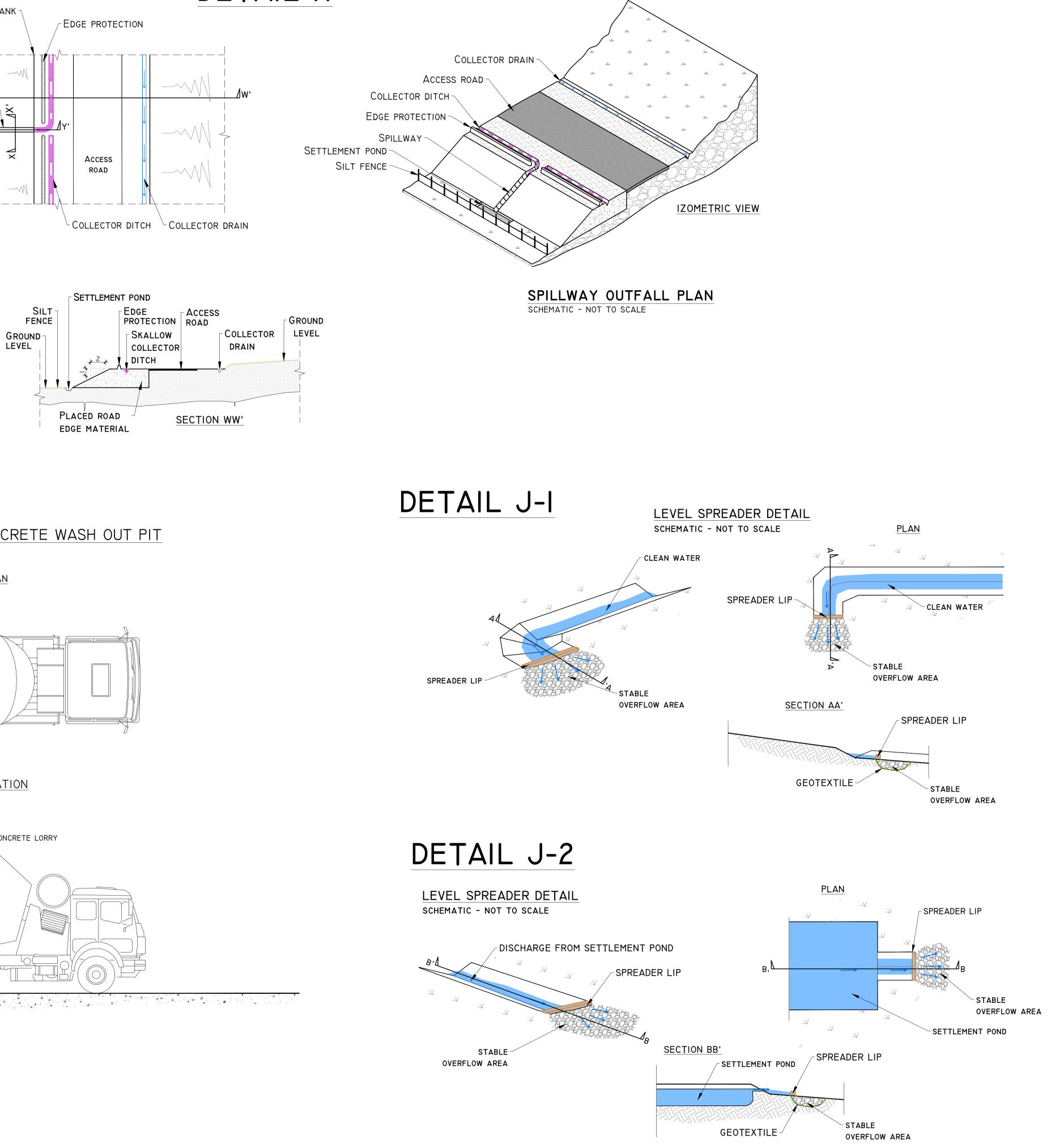
Sheet Size: A1

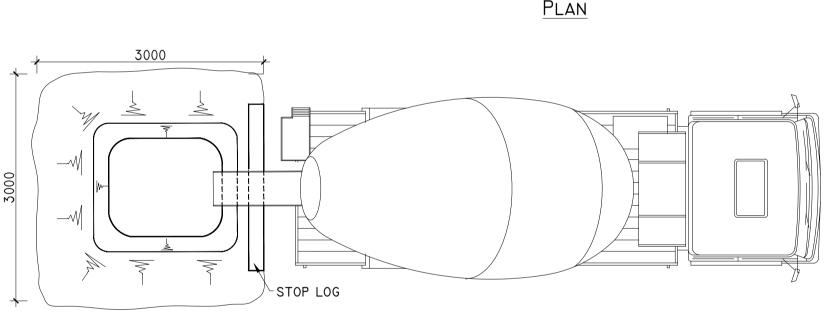
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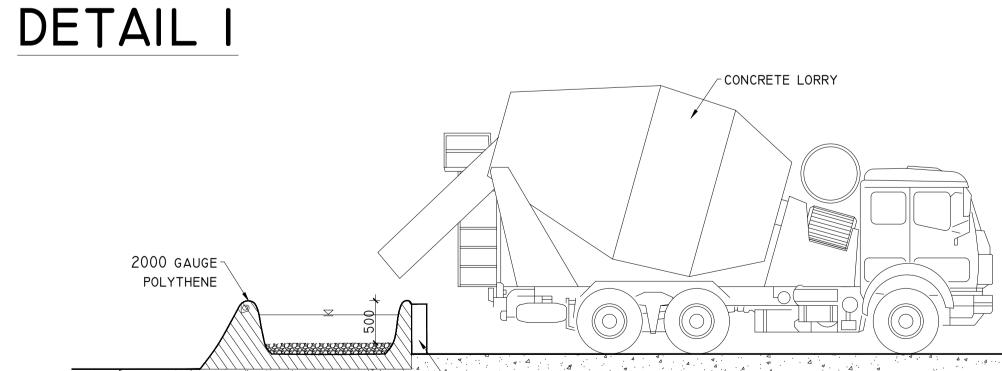
Date: 07/02/2024











STOP LOG 

# DETAIL H

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