



APPENDIX 4-4
DRAINAGE DESIGN

REG. No. _____
PLANNING (WEST) DEPT
11 NOV 2025
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NORTON HOUSE, SKIBBEREEN, CO. CORK

REG. No. _____
PLANNING (WEST) DEPT
15 SEP 2025
CORK COUNTY COUNCIL
NORTON HOUSE, SKIBBEREEN, CO. CORK

REG. No. _____
PLANNING (WEST) DEPT

06 NOV 2025

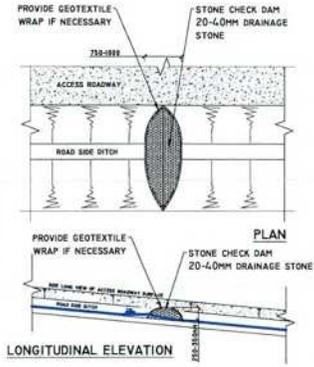
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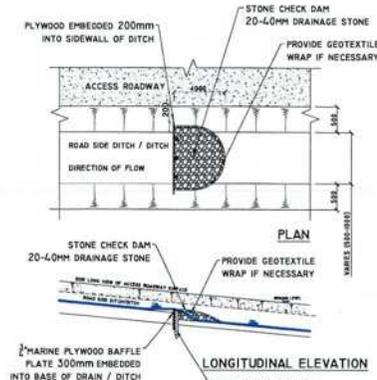
CORK COUNTY COUNCIL
NORTON HOUSE, SKIBBEREEN, Co. CORK

DETAIL C

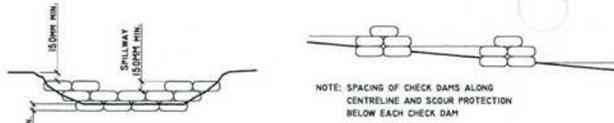


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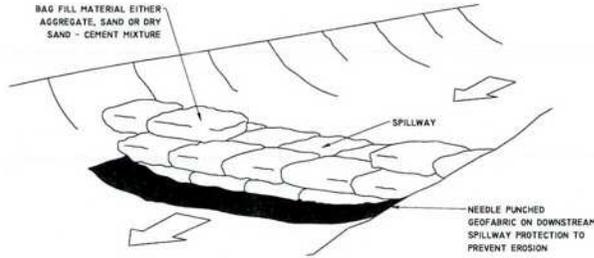
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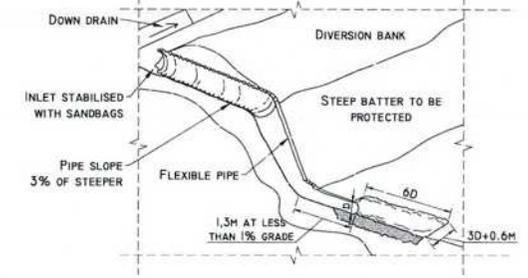
DETAIL CI



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

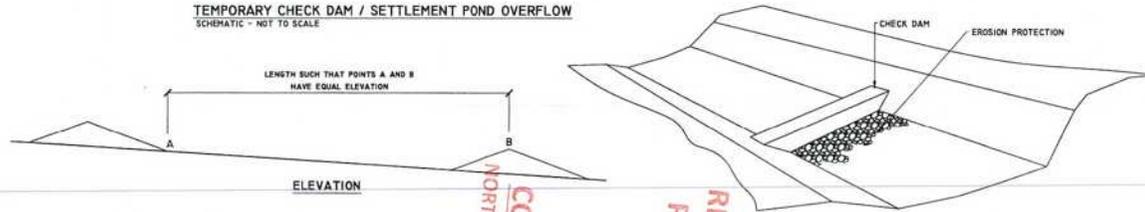
DETAIL E

TYPICAL PIPE SPILLWAY DETAIL SCHEMATIC - NOT TO SCALE

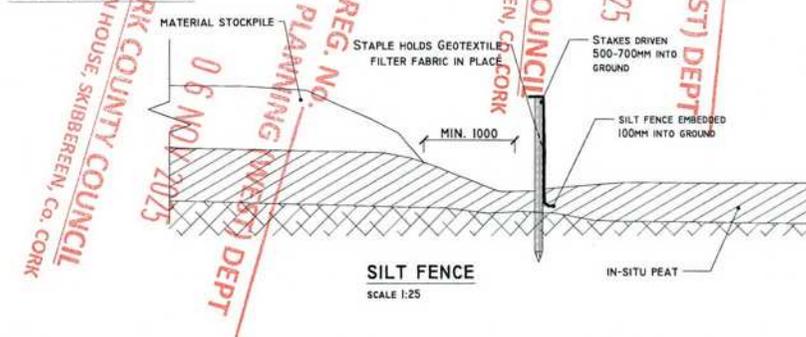


DETAIL C2

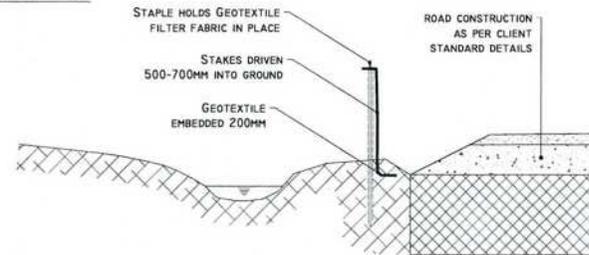
TEMPORARY CHECK DAM / SETTLEMENT POND OVERFLOW SCHEMATIC - NOT TO SCALE



DETAIL F-I



DETAIL F-II



SILT FENCE FOR WATERCOURSE PROTECTION
SCALE 1:25

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Client: WINGLEAF LTD

Job: CURRAGLASS WIND FARM, CO. CORK

Title: DRAINAGE DETAILS 2

Figure No: D502

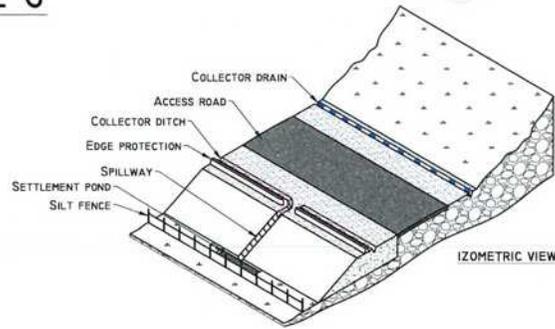
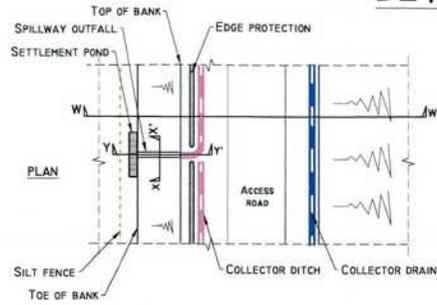
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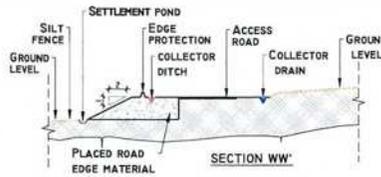
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Date: 10/09/2025 Checked By: MG

DETAIL G

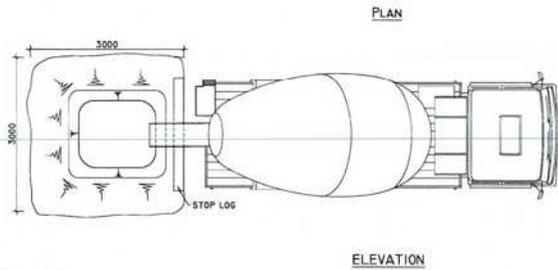


SPILLWAY OUTFALL PLAN
SCHEMATIC - NOT TO SCALE



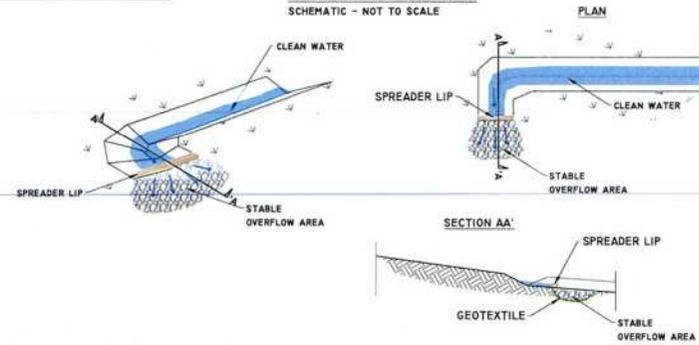
PROJECT DESIGN DRAWING 1
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TEMPORARY CONCRETE WASH OUT PIT
SCALE 1:50



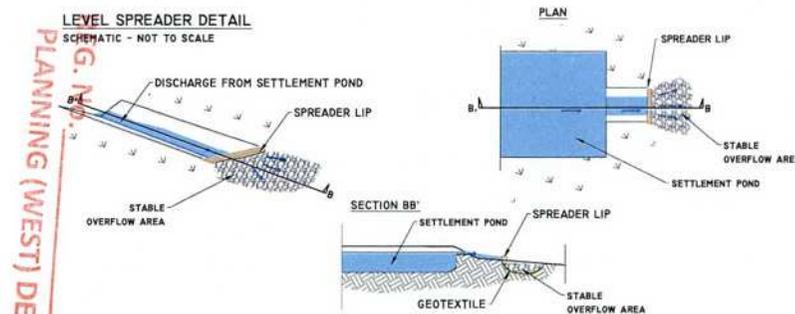
DETAIL J-1

LEVEL SPREADER DETAIL
SCHEMATIC - NOT TO SCALE

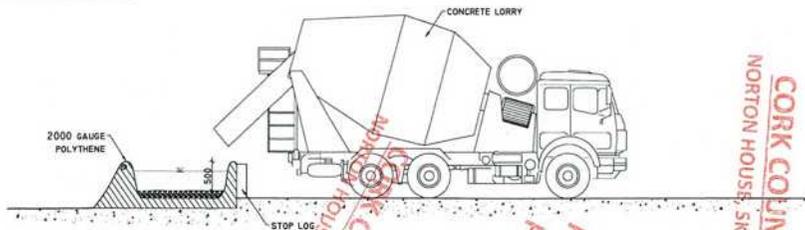


DETAIL J-2

LEVEL SPREADER DETAIL
SCHEMATIC - NOT TO SCALE



DETAIL H



REG. No. 06 NOV 2025
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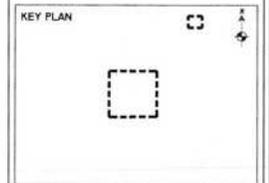
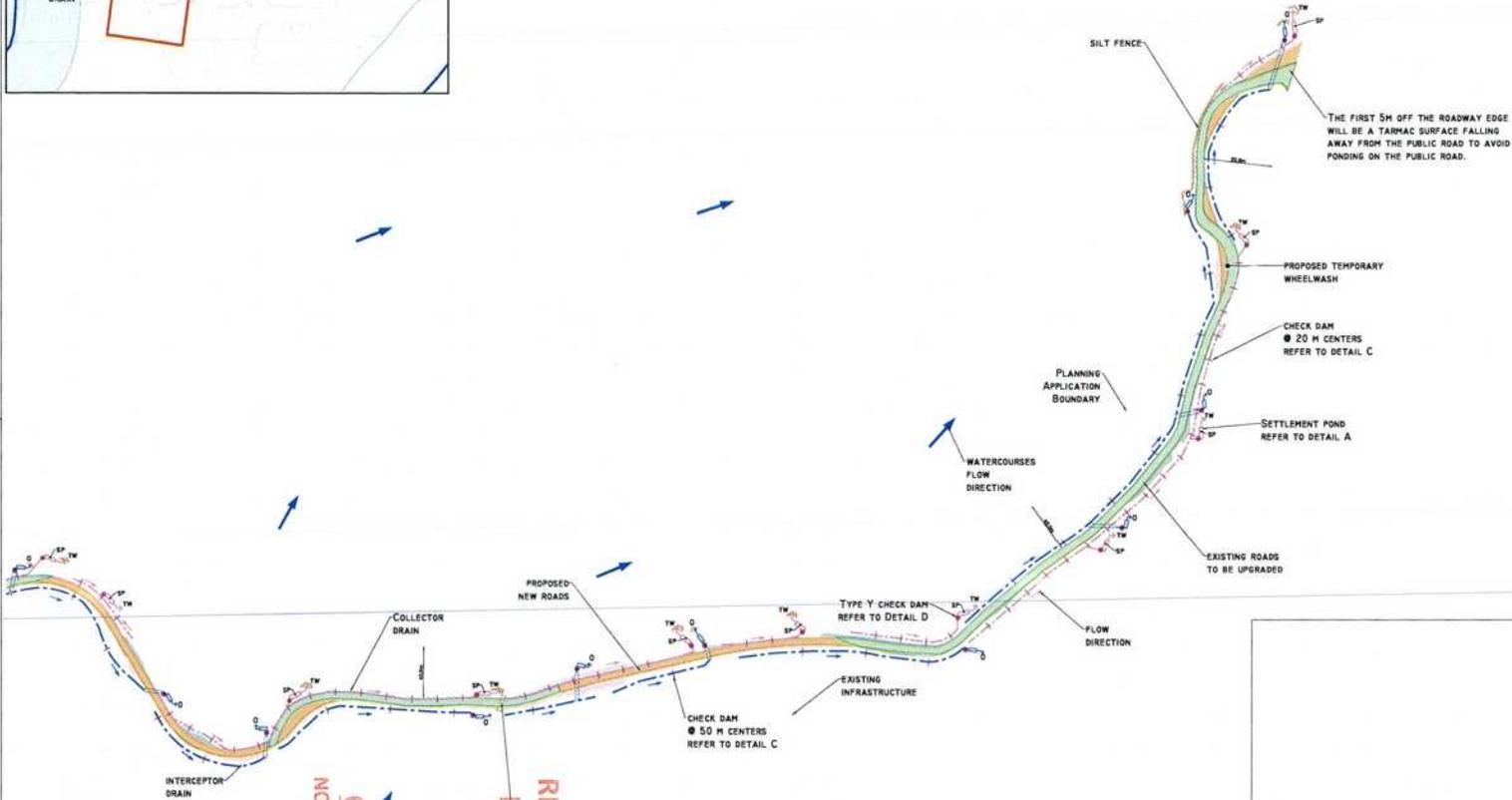
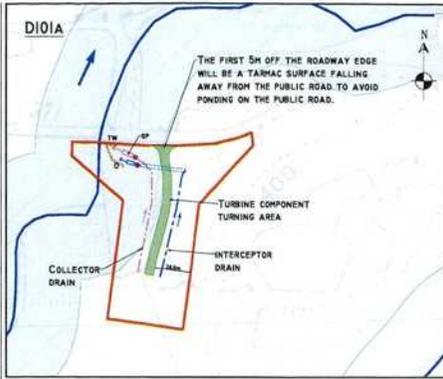
Client: WINGLEAF LTD

Job: CURRAGLASS WIND FARM, CO. CORK

Title: DRAINAGE DETAILS 3

Figure No: D503

Drawing No: P1483-3-0925-A1-D503-008
 Sheet Size: A1 Project No.: P1483-3
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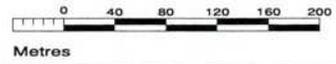
Client: WINGLEAF LTD

Job: CURRAGLASS WIND FARM, Co. CORK

Title: PROPOSED DRAINAGE LAYOUT

Figure No: DIOI

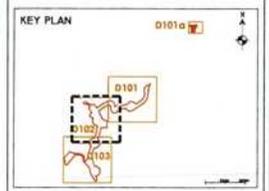
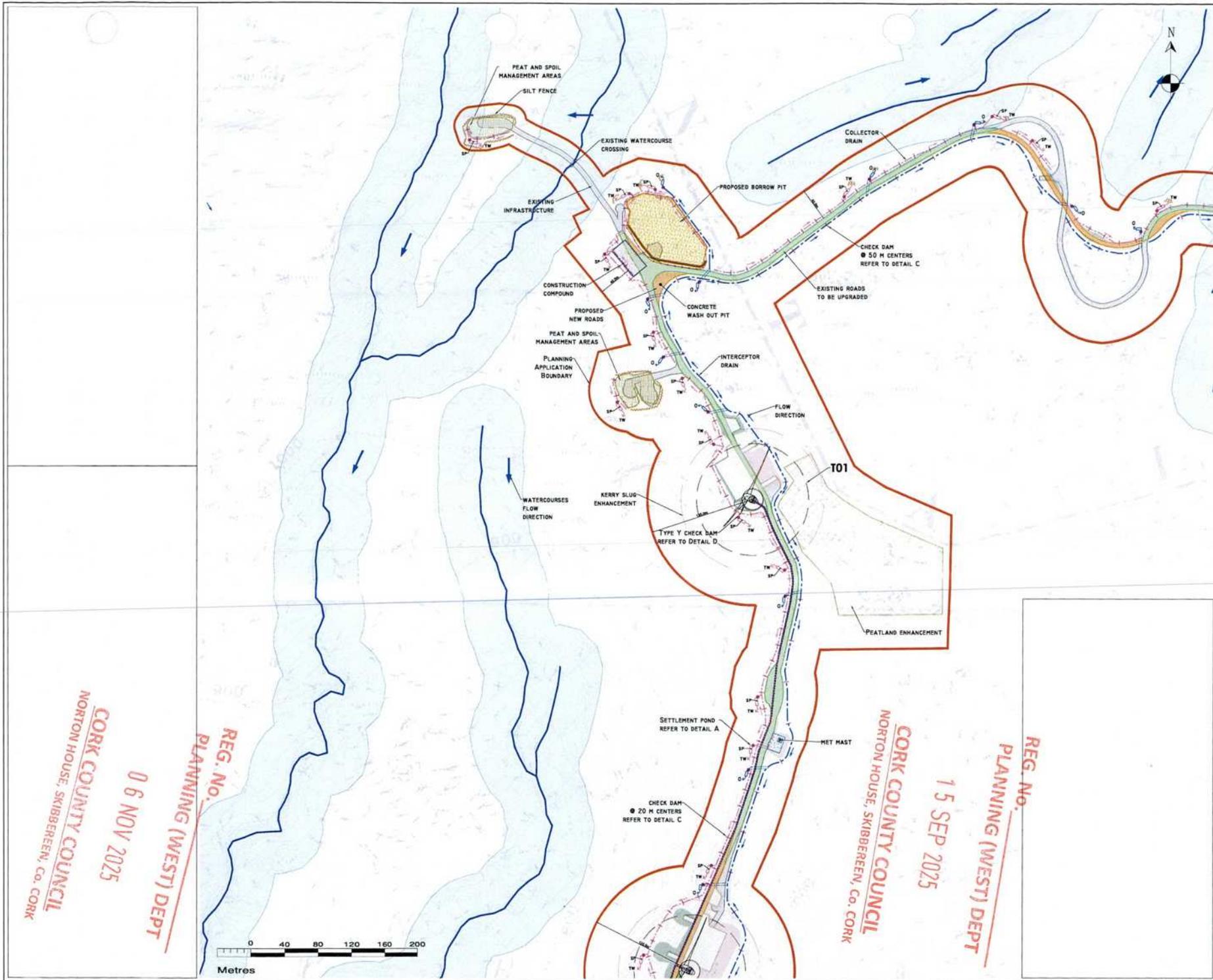
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 Scale: 1:2,000 (A1) Drawn By: GA
 Date: 10/09/2025 Checked By: MG



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Client: WINGLEAF LTD

Job: CURRAGLASS WIND FARM, CO. CORK

Title: PROPOSED DRAINAGE LAYOUT

Figure No: D102

Drawing No: P1483-3-0925-A1-D102-008
Sheet Size: A1 Project No.: P1483-3
Scale: 1:2,000 (A1) Drawn By: GA
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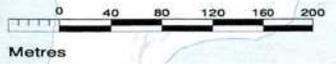
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POLLUTION PREVENTION NOTES:

1. SITE MANAGEMENT PROCEDURES TO ENSURE PREVENTION OF POLLUTION, EROSION AND EMBANKMENT.
2. SUITABLE DRAINAGE CONTROLS SHALL 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 DEMANDING EXCAVATIONS, EROSION OF EXPOSED/UNSTABLE SOILS, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADWAYS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

DISCHARGES

4. WATER CONTAMINATED SILT WILL NOT BE DISCHARGED OR PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES WILL BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAINS WITH SILT TRAP AT A MINIMUM OF 20m FROM RECEIVING WATERCOURSES UNLESS OTHERWISE STATED.
5. NO EXCAVATED MATERIAL WILL 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 STRIPS PRIOR TO OVERLAND DISCHARGE.
7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN UNDESIRABLE AREAS WILL BE COMPLETED IN A MANNER THAT WILL NOT CAUSE EROSION OR BLOWUP AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SUITABLE SOFTENING PLATES, AND/OR OTHER SUITABLE DISCHARGE CONTROLS.
8. VEGETATION WILL NOT BE STOPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.

EXCAVATIONS

9. WHERE (TEMPORARY) DEEP EXCAVATIONS ARE PROPOSED, CUT-OFF DRAINS WILL BE USED TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE ABOVE FENCED SLOPE EXCAVATIONS.

EMBEDDED SLOPES & STOCKPILES

10. THE AMOUNT OF TEMPORARY EMBEDDED SLOPES AND TEMPORARY STOCKPILES EXPOSED/STORED AT ANY TIME WILL BE MINIMIZED.

SILT TRAPS

11. USE OF TRACK SIDE DRAINS 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.

REVEGETATION

13. REVEGETATION OF PUBLIC PLANT WILL BE COMPLETED IN DESIGNATED REVEGETATION AREAS ONLY, ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES/WATERBODIES.
14. SPILL KITS AND SOD TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

CONCRETE

15. CONCRETE FORMS WILL BE MANAGED AND SUPERVISED TO ENSURE THERE WILL BE NO LEAKAGE/SEEPAGE/DISCHARGE OF CONCRETE OR CONCRETE WATER DURING THE CONSTRUCTION PHASE.
16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE AT A LINED CONCRETE WASH PIT.

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

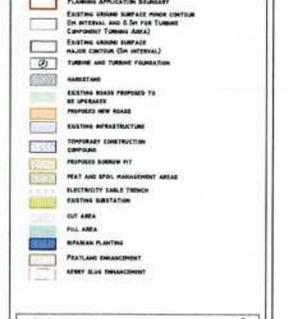
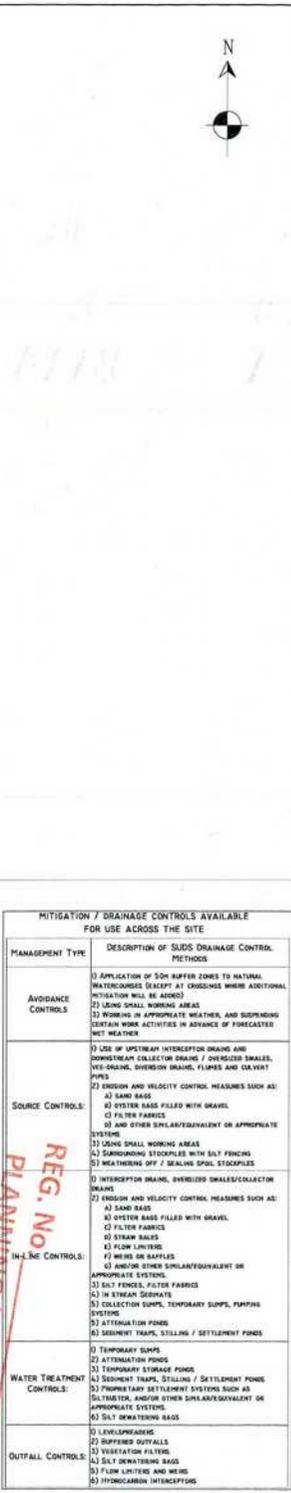
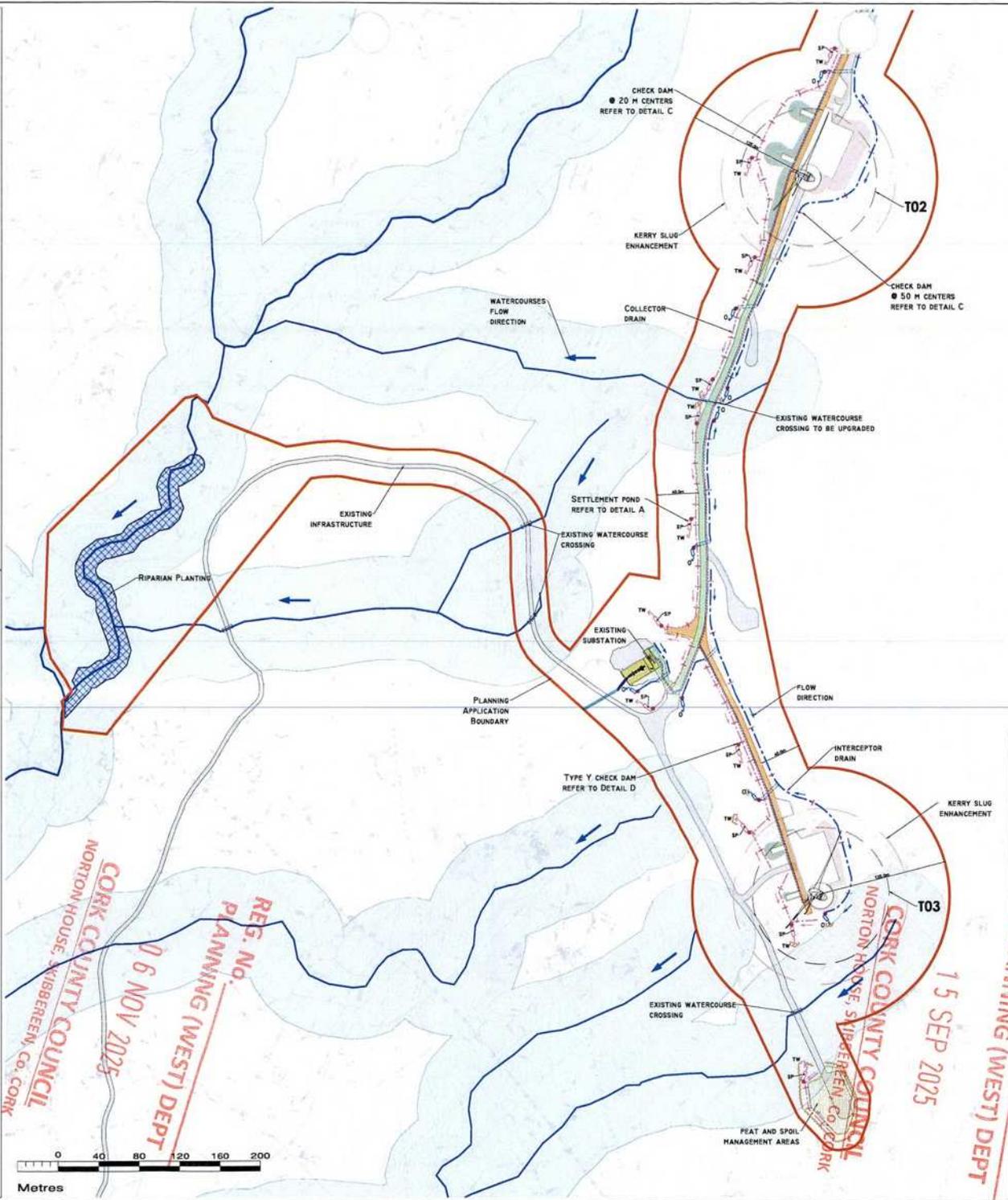
STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.

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

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

DRAINAGE NOTES:

1. SITE TRACKS AND ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENHANCE SPECIFICATION (I.E. 8% FALLOFF).
2. SPARE STRAIN BALE/SILT FENCING OR SIMILAR, WILL 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 TRAP/SILT TRAP BAGS OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. PUBLIC SILT TRAP SYSTEM TO BE EVALUATED ON-SITE FOR USE AS REQUIRED ALSO.
3. SLOPE DRAINAGE SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAIN BALE/SILT FENCING/SILT TRAP BAGS OR OTHER ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CANNOT STOP TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING DISCHARGED DURING THE CONSTRUCTION PHASE.
4. SUITABLE PREVENTION MEASURES WILL 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 DRAINS / DITCHES WILL BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. INTERIM DRAINAGE / DISCHARGE TO FIELD SUB-DRAINAGE WILL BE INSTALLED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.
6. DRAINAGE DRAINS / 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. OPTIMUM LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO ANY EXISTING WATERCOURSE.
7. A BUFFER ZONE OF 200m TO ANY EXISTING WATERCOURSE WILL BE MAINTAINED WHERE OVERLAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES. THIS BUFFER WILL NOT BE POSSIBLE AT REVERSE/SIDE CHANNELS, BUT OTHER SUITABLE CONTROLS ARE PROPOSED IN THESE AREAS (I.E. ADDITIONAL SILT FENCING).
8. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN 1:1.5 TO 1:2 DEPENDING UPON TYPE OF SOIL/VEGETATION AND WILL BE LEFT AS CUT TO BE RE-VEGETATED WITH LOCAL SPECIES.
9. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SOULING. IN STEEP AREAS CHECK DAMS WILL BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAMINANT. 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 TURNING BAZES AND HARD STAND AREAS. POND SIZES DEPEND ON THE CATCHMENT AREA BEING SERVED. SAMPLE POND SIZES FOR VARIOUS CATCHMENT AREAS SHOWN ON DRAWING D501.
11. STRAIN BALE/SILT FENCING TO BE USED ALSO AROUND SPILL HEAPS TO PREVENT SILT ENTRY. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.
12. SILT FENCES TO BE REMOVED ALONG THE FLOWS OF EXISTING WATERCOURSES WHERE WORKS COME WITHIN 15m OF EDGE OF ANY DITCH / DRAIN / CHANNEL.
13. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STOPPED VEGETATION LAYER MUST 'SOAK' (OR 'SOAK') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BATTERS OF SWALES / DITCHES OR LONGITUDINAL SLOPES OF VEGETATION SWALES AT FIELD DRAIN DISCHARGE POINTS.
14. AREAS STRIPPED OF VEGETATION WILL BE LEFT TO A MINIMUM OF 100m FROM EXISTING OPEN VEGETATION. CHECK DAMS TO BE MADE OF LOCALLY WOOD OR LOCALLY SHTIM WOOD SHOWN. AGGREGATE SIZE FOR STRAIN BALE DRAINS TO BE TYPICALLY 20-40mm CLEAN STONE OR SILVER SAND. SECTIONS OF THE ACCESS TRACKS, 400m CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF SOFT STONE OR THE DOWNHILL PART OF THE CHECK DAM AND BY REVEGETATION OF EXISTENCE.
15. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND REDUCED TO APPROPRIATE. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAMS TO BE REMOVED AND REPLACED SUBSEQUENT TO THE METHOD OF SILT.
16. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDANT UPON LONGITUDINAL GRADIENT OF SWALE.
17. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHICH THEY MAY BE EASILY INFILLED AT A LATER DATE POST COMPLETION OF THE TURNING BAZES AND HARD STAND CONSTRUCTION. ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO BE USED TO FORM PART OF THE DRAINAGE AROUND THE POND.
18. OIL FUEL WILL ONLY BE STORED WITHIN ROUNDED CONTAINMENT STRUCTURES.
19. TEMPORARY USE OF SILT BAGS WILL BE USED ON SITE WHERE PUMPING FROM EXCAVATIONS IS REQUIRED.



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Client: WINGLEAF LTD

Job: CURRAGLAS WIND FARM, Co. CORK

Title: PROPOSED DRAINAGE LAYOUT

Figure No: D103

Drawing No: P1483-3-0925-A1-D103-008

Sheet Size: A1 **Project No.:** P1483-3

Scale: 1:2,000 (A1) **Drawn by:** GA

Date: 10/09/2025 **Checked by:** MG

MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE

MANAGEMENT TYPE	DESCRIPTION OF SILTS DRAINAGE CONTROL METHODS
AVOIDANCE CONTROLS	<ol style="list-style-type: none"> 1) APPLICATION OF SOIL BUFFER ZONES TO NATURAL WATERCOURSES (EXCEPT AT CROSSINGS WHERE ADDITIONAL MITIGATION WILL BE ADDED) 2) USING SMALL WORKING AREAS 3) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED MET WEATHER
SOURCE CONTROL	<ol style="list-style-type: none"> 1) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERFLOW SWALES, YES-DRAIN, DIVERSION DRAINS, FENCES AND GULCHES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: <ul style="list-style-type: none"> A) SAND BAGS B) SYSTEM BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) OTHER SMALL/SCALE/TEMPORARY OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SERRATED STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING SILT STOCKPILES 6) INTERCEPTOR DRAINS, OVERFLOW SWALES/COLLECTOR DRAINS 7) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: <ul style="list-style-type: none"> A) SAND BAGS B) SYSTEM BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAIN BALE/S E) FLOW LIMITERS F) WEEDS OR BATTERS G) ANCHOR STRIPS SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 8) SERRATED TRAPS, STALLING / SETTLEMENT PONDS 9) ATTENTION DRAINS 10) COLLECTION SUMP, TEMPORARY SUPPLY, PUMPING SYSTEMS 11) ATTENTION DRAINS 12) TEMPORARY DAMS 13) ATTENTION PONDS 14) TEMPORARY STORAGE PONDS 15) SOFTWATER TRAPS, STALLING / SETTLEMENT POND 16) PREPARED SETTLEMENT SYSTEMS SUCH AS SETTLEMENT TRAPS, STALLING / SETTLEMENT POND OR APPROPRIATE SYSTEMS. 17) SALT DRAINAGE BARRIERS 18) LEAK/DRAINAGE 19) BUFFER DETAILS 20) VEGETATION FILTERS 21) SILT DEMONSTRATION BAGS 22) FLOW LIMITERS AND WEEDS 23) HYDROCARBON INTERCEPTORS
WATER TREATMENT CONTROLS	<ol style="list-style-type: none"> 1) TEMPORARY DAMS 2) ATTENTION PONDS 3) TEMPORARY STORAGE PONDS 4) SOFTWATER TRAPS, STALLING / SETTLEMENT POND 5) PREPARED SETTLEMENT SYSTEMS SUCH AS SETTLEMENT TRAPS, STALLING / SETTLEMENT POND OR APPROPRIATE SYSTEMS. 6) SALT DRAINAGE BARRIERS 7) LEAK/DRAINAGE 8) BUFFER DETAILS 9) VEGETATION FILTERS 10) SILT DEMONSTRATION BAGS 11) FLOW LIMITERS AND WEEDS 12) HYDROCARBON INTERCEPTORS
OUTFALL CONTROL	<ol style="list-style-type: none"> 1) LEAK/DRAINAGE 2) BUFFER DETAILS 3) VEGETATION FILTERS 4) SILT DEMONSTRATION BAGS 5) FLOW LIMITERS AND WEEDS 6) HYDROCARBON INTERCEPTORS

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