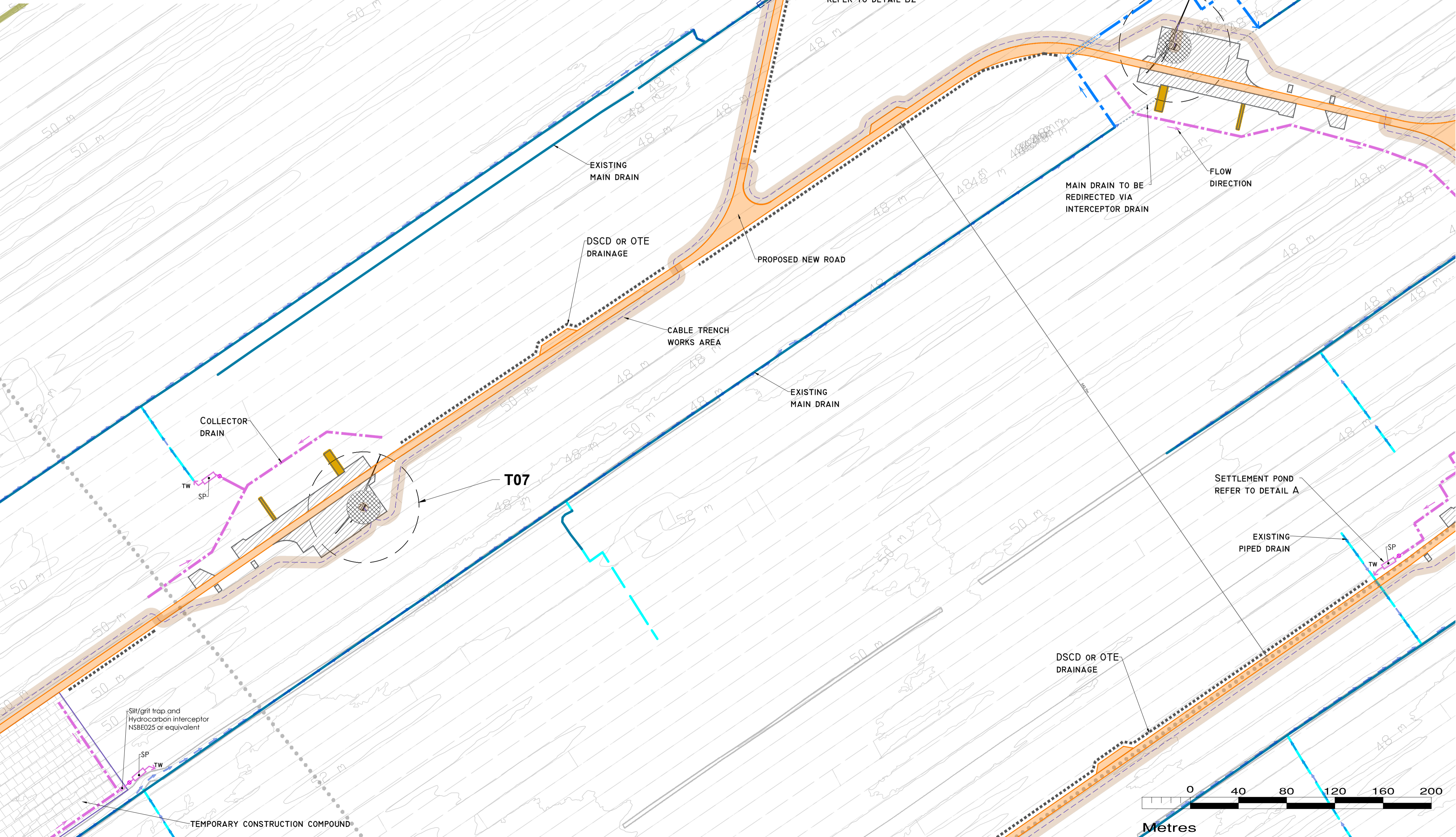


**POLLUTION PREVENTION NOTES:**

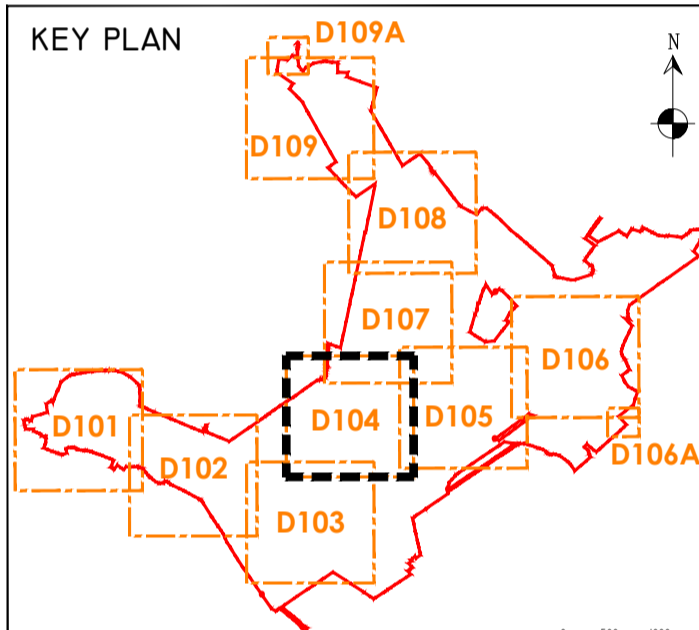
- SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.
  - SUITABLE DRAINAGE CONTROL MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
  - SILTY 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**
- WATER CONTAINING 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 NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
  - NO EXCAVATED MATERIAL WILL 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 WILL NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SUITABLE SPLASH PLATES, AND/OR OTHER SIMILAR DISCHARGE CONTROLS.
  - VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.
- EXCAVATIONS**
- WHERE (TEMPORARY) DEEP EXCAVATIONS ARE PROPOSED, CUT-OFF DRAINS OR EXISTING FIELD DRAINS WILL BE USED 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 TEMPORARY EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN/EXPOSED AT ANY TIME WILL BE MINIMISED.
- SITE TRACKS**
- USE OF EXISTING FIELD DRAINS OR 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.
- REFUELLING**
- REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELLING AREAS ONLY, 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.
- CONCRETE**
- CONCRETE POURS WILL BE MANAGED AND SUPERVISED TO ENSURE THERE WILL BE NO LEAKAGE/SEEPAGE/DISCHARGE OF CONCRETE OR CONCRETE WATER DURING THE CONSTRUCTION PHASE.
  - CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE AT A LINED CONCRETE WASH OUT PIT(S).
- IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS SHOULD 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 ANY 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 RECEPTORS.

MITIGATION / DRAINAGE CONTROLS AVAILABLE FOR USE ACROSS THE SITE	
MANAGEMENT TYPE	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS
AVOIDANCE CONTROLS	<ol style="list-style-type: none"> <li>APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES (EXCEPT AT CROSSINGS WHERE ADDITIONAL MITIGATION WILL BE ADDED)</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 style="list-style-type: none"> <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:                     <ol style="list-style-type: none"> <li>SAND BAGS</li> <li>OYSTER BAGS FILLED WITH GRAVEL</li> <li>FILTER FABRICS</li> <li>AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS</li> </ol> </li> <li>USING SMALL WORKING AREAS</li> <li>SURROUNDING STOCKPILES WITH SILT FENCING</li> <li>WEATHERING OFF / SEALING SPOIL STOCKPILES</li> </ol>
IN-LINE CONTROLS	<ol style="list-style-type: none"> <li>INTERCEPTOR DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS</li> <li>EROSION AND VELOCITY CONTROL MEASURES SUCH AS:                     <ol style="list-style-type: none"> <li>SAND BAGS</li> <li>OYSTER BAGS FILLED WITH GRAVEL</li> <li>FILTER FABRICS</li> <li>STRAW BALES</li> <li>FLOW LIMITERS</li> <li>WEIRS OR BAFFLES</li> <li>AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS</li> </ol> </li> <li>SILT FENCES, FILTER FABRICS</li> <li>IN STREAM/RAIN SEDIMENTS</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 style="list-style-type: none"> <li>TEMPORARY SUMPS</li> <li>ATTENUATION PONDS</li> <li>TEMPORARY STORAGE PONDS</li> <li>SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS / EXISTING SETTLEMENT PONDS</li> <li>PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTTRUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.</li> <li>SILT DEWATERING BAGS</li> </ol>
OUTFALL CONTROLS	<ol style="list-style-type: none"> <li>LEVELSPREADERS</li> <li>BUFFERED OUTFALLS</li> <li>VEGETATION FILTERS</li> <li>SILT DEWATERING BAGS</li> <li>FLOW LIMITERS AND WEIRS</li> <li>HYDROCARBON INTERCEPTORS</li> </ol>



**DRAWING LEGEND:**

- WATERCOURSES
- WATERCOURSES 50M BUFFER
- WATERCOURSES 20M BUFFER
- STREAM FLOW DIRECTION
- EXISTING MAIN DRAINS
- REDIRECTED MAIN DRAINS
- EXISTING PIPED DRAINS
- FIELD DRAIN
- EXISTING SETTLEMENT PONDS
- UPSTREAM INTERCEPTOR DRAIN
- DOWNSTREAM COLLECTOR DRAIN (DSCD) (DSCD OR OVER THE EDGE (OTE))
- COLLECTOR DRAIN CULVERT
- INDICATIVE DIRECTION OF FLOW
- SILT FENCES
- WF SETTLEMENT POND
- LEVEL SPREADER
- PROPOSED CULVERTS/BRIDGES
- INTERCEPTOR DRAIN CULVERT
- COLLECTOR DRAIN CULVERT
- OVERLAND FLOW DISCHARGE
- TREATED WATER DISCHARGE
- WF SETTLEMENT POND
- BORROW PIT SETTLEMENT POND
- PLANNING APPLICATION BOUNDARY
- EXISTING GROUND SURFACE
- MINOR CONTOUR (2 M INTERVAL)
- TURBINE FOUNDATION
- CRANE PLATFORM/HARDSTAND
- EXISTING ROADS TO BE UPGRADED
- PROPOSED NEW ROADS
- EXISTING ROADS TO BE UPGRADED FOR AMENITY
- NEW AMENITY TRACKS
- BORROW PIT
- SUBSTATION
- TEMPORARY CONSTRUCTION COMPOUND
- SUBSTATION TEMPORARY CONSTRUCTION COMPOUND
- HET MAST
- PEAT DEPOSITION AREAS
- CABLE TRENCH AND WORKS AREA
- LAY BY FOR DELIVERY VEHICLES
- EXISTING PUMP STATIONS
- CRANE PADS
- CRANE HARDSTAND
- TEMPORARY ACCESS TRACK
- EXISTING OVERHEAD LINE
- PROPOSED GRID CONNECTION
- HABITAT ENHANCEMENT AREAS
- LAPING SEMI-GRASSLAND MOSAIC
- LINEAR HABITAT PLANTING



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Revisions			

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Client: **LEMAGHAN WIND FARM DAC**

Job: **LEMAGHAN WF, Co. OFFALY**

Title: **PROPOSED DRAINAGE LAYOUT**

Figure No: **D104**

Drawing No: **P1540-0-0326-A1-D104-00A**

Sheet Size: **A1** Project No.: **P1540-0**

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