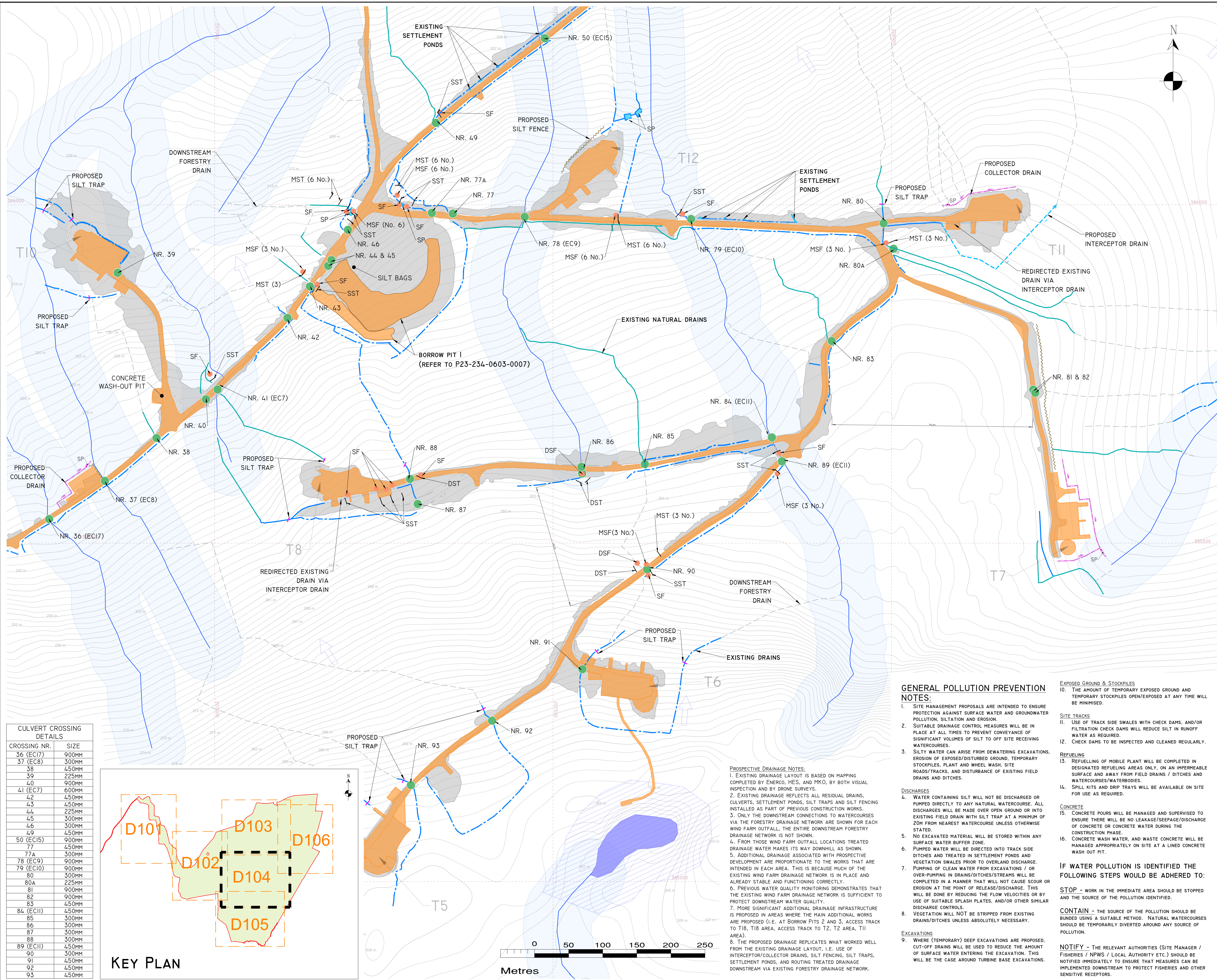
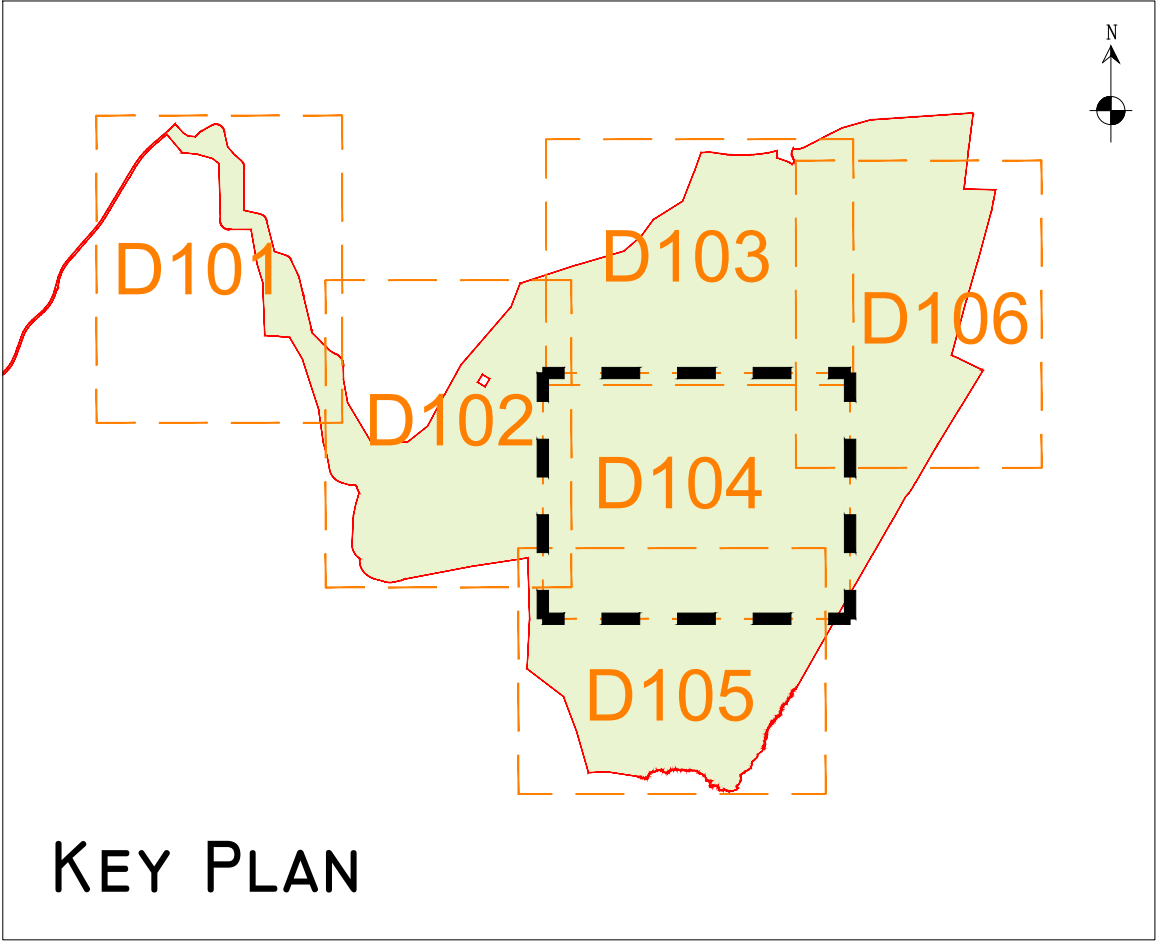




CULVERT CROSSING DETAILS	
CROSSING NR.	SIZE
36 (EC17)	900MM
37 (EC8)	300MM
38	450MM
39	225MM
40	900MM
42 (EC7)	600MM
43	450MM
44	225MM
45	300MM
46	300MM
49	450MM
50 (EC15)	900MM
77A	450MM
78 (EC9)	900MM
79 (EC10)	900MM
80	300MM
80A	225MM
81	900MM
82	900MM
83	450MM
84 (EC11)	450MM
85	300MM
86	300MM
87	300MM
88	300MM
89 (EC11)	450MM
90	300MM
91	450MM
92	450MM
93	450MM



DRAWING LEGEND :

PLANNING APPLICATION BOUNDARY

EXISTING DEVELOPMENT FOOTPRINT

SITE LAYOUT IS UNDERLAIN BY 1M INTERVAL CONTOURS TO MOD MALIN HEAD

SLOPE / DRAINAGE DIRECTION

WATERCOURSES

WATERCOURSE BUFFER 50M

LAKES 50M BUFFER

EXISTING NATURAL DRAINS

DOWNSTREAM FORESTRY DRAIN

EXISTING DRAINS

EXISTING SETTLEMENT PONDS

EXISTING CULVERT LOCATIONS

EXISTING SILT FENCES (SF*)

*SF - SINGLE SILT FENCE

DSF - DOUBLE SILT FENCE

MSF - MULTIPLE SILT FENCES

EXISTING SILT TRAPS (SST*)

*SST - SINGLE SILT TRAP

DST - DOUBLE SILT TRAP

MST - MULTIPLE SILT TRAPS

EXISTING SILT TRAPS (SST*)

*SST - SINGLE SILT TRAP

DST - DOUBLE SILT TRAP

MST - MULTIPLE SILT TRAPS

UPSTREAM INTERCEPTOR DRAIN

SWALES / DOWNSTREAM COLLECTOR DRAIN

SETTLEMENT POND - VEGETATION FILTER - LEVEL SPREADER

CHECK DAM 'TYPE B'

DIRECTION OF FLOW

PROPOSED SILT FENCE

PROPOSED SILT TRAPS (PST)

SETTLEMENT POND

PROSPECTIVE DEVELOPMENT FOOTPRINT

EXISTING NATURAL DRAINAGE

EXISTING BUILT DRAINAGE

PROPOSED DRAINAGE

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Date	Description	Chkd	Signed
Revisions			

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Client: **PLANREE LTD**

Job: **MEENBOG WIND FARM, CO. DONEGAL**

Title: **PROSPECTIVE DEVELOPMENT DRAINAGE LAYOUT SHEET 4 OF 6**

Figure No: **D104**

Drawing No: P1249-9-0626-A1-D104-00A	
Sheet Size: A1	Project No.: P1249-9
Scale: 1:2,500 (A1)	Drawn By: MG/GA
Date: 25/06/2026	Checked By: MG

GENERAL POLLUTION PREVENTION NOTES:

1. EXISTING DRAINAGE LAYOUT IS BASED ON MAPPING COMPLETED BY ENERO, HES, AND MKO, BY BOTH VISUAL INSPECTION AND BY DRONE SURVEYS.
2. EXISTING DRAINAGE REFLECTS ALL RESIDUAL DRAINS, CULVERTS, SETTLEMENT PONDS, SILT TRAPS AND SILT FENCING INSTALLED AS PART OF PREVIOUS CONSTRUCTION WORKS.
3. ONLY THE DOWNSTREAM CONNECTIONS TO WATERCOURSES VIA THE FORESTRY DRAINAGE NETWORK ARE SHOWN FOR EACH WIND FARM OUTFALL. THE ENTIRE DOWNSTREAM FORESTRY DRAINAGE NETWORK IS NOT SHOWN.
4. FROM THOSE WIND FARM OUTFALL LOCATIONS TREATED DRAINAGE WATER MAKES ITS WAY DOWNHILL AS SHOWN.
5. ADDITIONAL DRAINAGE ASSOCIATED WITH PROSPECTIVE DEVELOPMENT ARE PROPORTIONATE TO THE WORKS THAT ARE INTENDED IN EACH AREA. THIS IS BECAUSE MUCH OF THE EXISTING WIND FARM DRAINAGE NETWORK IS IN PLACE AND ALREADY STABLE AND FUNCTIONING CORRECTLY.
6. PREVIOUS WATER QUALITY MONITORING DEMONSTRATES THAT THE EXISTING WIND FARM DRAINAGE NETWORK IS SUFFICIENT TO PROTECT DOWNSTREAM WATER QUALITY.
7. MORE SIGNIFICANT ADDITIONAL DRAINAGE INFRASTRUCTURE IS PROPOSED IN AREAS WHERE THE MAIN ADDITIONAL WORKS ARE PROPOSED (I.E. AT BORROW PITS 2 AND 3, ACCESS TRACK TO T18, T18 AREA, ACCESS TRACK TO T2, T2 AREA, T11 AREA).
8. THE PROPOSED DRAINAGE REPLICATES WHAT WORKED WELL FROM THE EXISTING DRAINAGE LAYOUT, I.E. USE OF INTERCEPTOR/COLLECTOR DRAINS, SILT FENCING, SILT TRAPS, SETTLEMENT PONDS, AND ROUTING TREATED DRAINAGE DOWNSTREAM VIA EXISTING FORESTRY DRAINAGE NETWORK.
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 AROUND TURBINE BASE EXCAVATIONS.

EXPOSED GROUND & STOCKPILES

10. THE AMOUNT OF TEMPORARY EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN/EXPOSED AT ANY TIME WILL BE MINIMISED.

SITE TRACKS

11. 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.

REFUELLING

13. 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.
14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

CONCRETE

15. 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.
16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE AT A LINED CONCRETE WASH OUT 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 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.