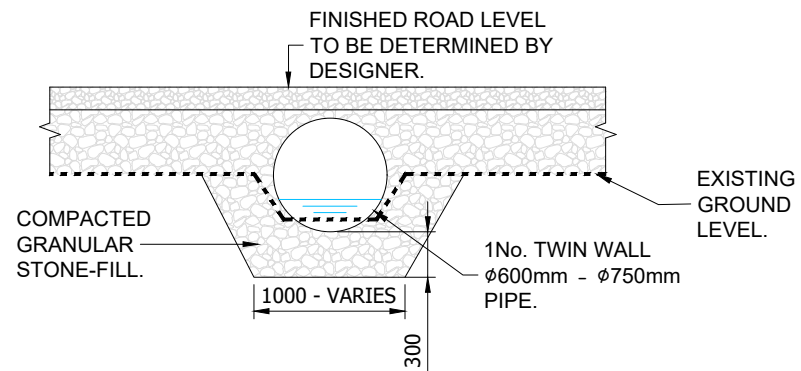
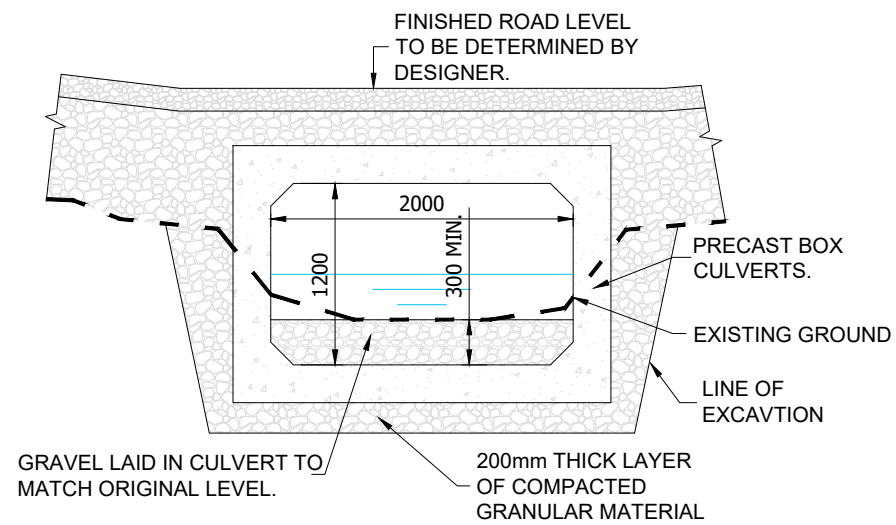


**TYPE 1 CULVERT**  
SCALE 1:50



**TYPE 2 CULVERT**  
SCALE 1:50



**TYPE 3 CULVERT**  
SCALE 1:50

**NOTE:**

CULVERTS ARE TO BE OF ADEQUATE SIZE TO CARRY PEAK FLOWS CORRESPONDING TO A 1 IN 100 YEAR STORM EVENT, WITH A MINIMUM DIAMETER OF 900mm. THEY SHOULD BE INSTALLED TO CONFORM WHEREVER POSSIBLE TO THE NATURAL SLOPE AND ALIGNMENT OF THE STREAM OR DRAINAGE LINE. CULVERTS GREATER THAN 1m DIAMETER SHOULD BE BURIED TO A MINIMUM DEPTH OF 300mm BELOW THE STREAMBED AND THE ORIGINAL BED MATERIAL PLACED IN THE BOTTOM OF THE CULVERT.

1. FORMATION LEVEL TO BE DETERMINED BY THE CIVIL WORKS DESIGNER. REFER TO SITE INVESTIGATIONS REPORT.

2. SUB BASE MATERIAL TO CONFORM TO THE FOLLOWING:

**IMPORTED MATERIAL**  
TO CONFORM TO TYPE 6F1 IN ACCORDANCE WITH TABLE 6/2 OF THE NRA SPECIFICATION FOR ROAD WORKS.

**SITE WON MATERIAL**  
ROCK WON IN EXCAVATION OF TURBINES MUST BE CRUSHED AND GRADED ON SITE. THE MAXIMUM SIZE OF AGGREGATE TO BE 125mm. THE AGGREGATE GRADING TO BE AGREED WITH THE ENGINEER.

3. SURFACE LAYER TO BE CLAUSE 804. THIS LAYER MAY BE APPLIED IMMEDIATELY BEFORE TURBINE DELIVERY.

P01	Planning Application Submission	LB	JL/RM	May, 2023
P00	Issued for Comments	LB	JL/RM	Mar, 2023
rev.	modifications	by	chkd	date

Client <b>EMP Group</b>			
Project Proposed Wind Farm and Grid Connection at Dyrick Hill, County Waterford.			
Stage Planning Application			
Title Drainage Details Sheet 3 of 4			
Scales 1:50 (A3)			
Surveyed	Prepared By	Checked	Date
	L.B.	J.L.	Oct. 2022

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Drawing no. <b>6497-PL-304</b>	Revision <b>P01</b>
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