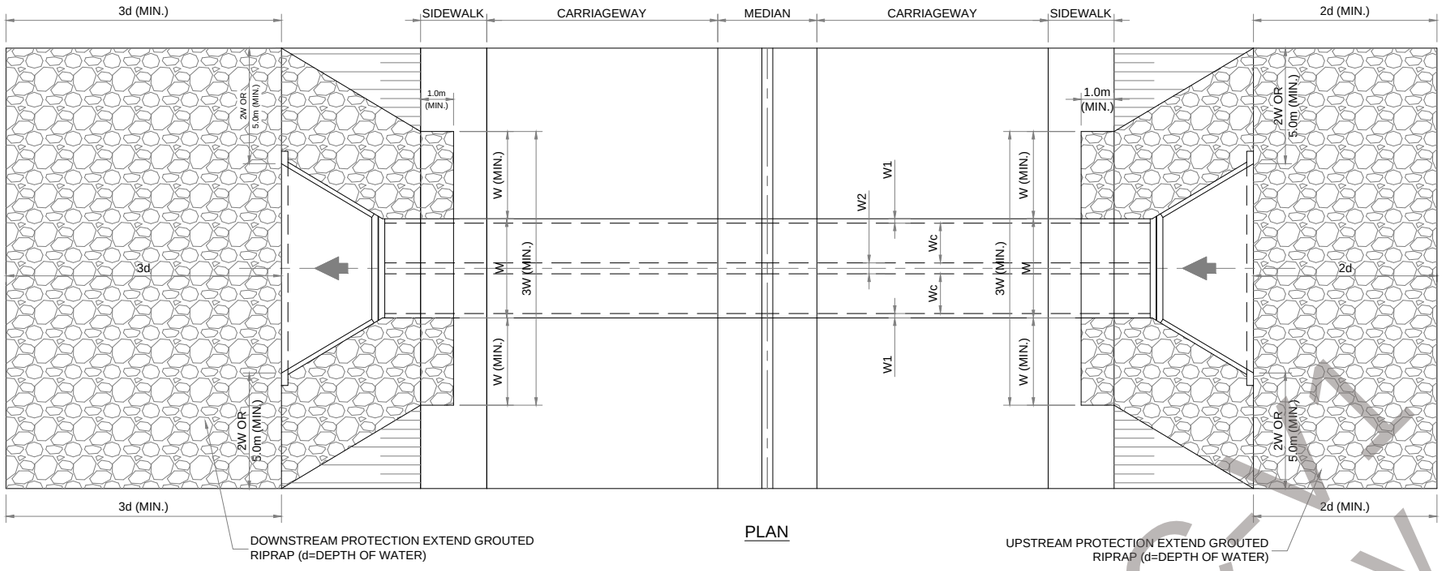
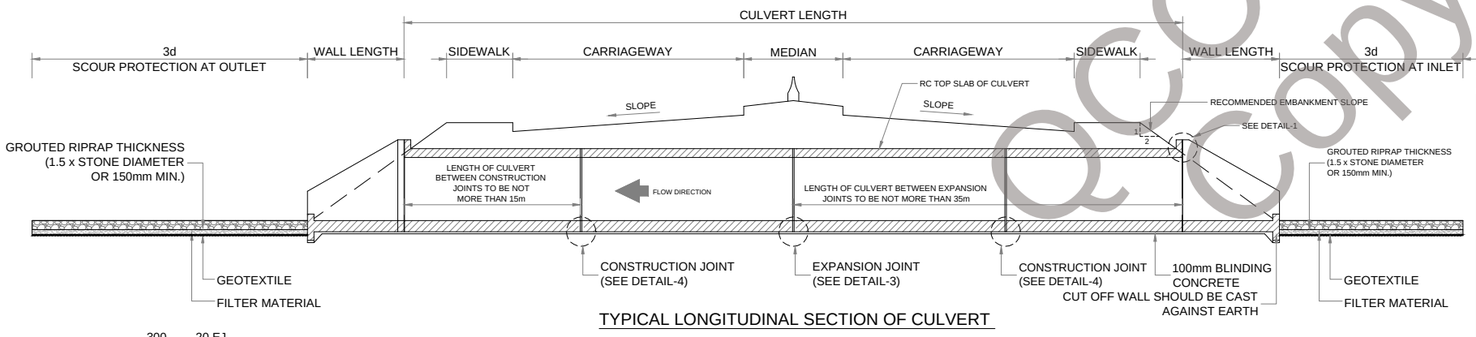
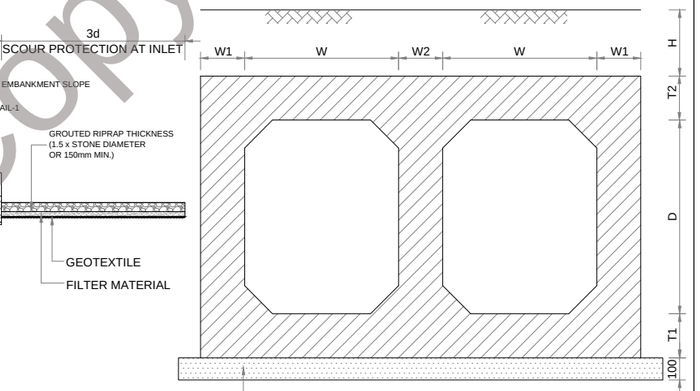


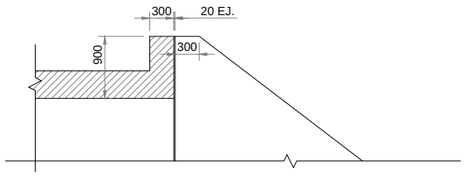
PLAN



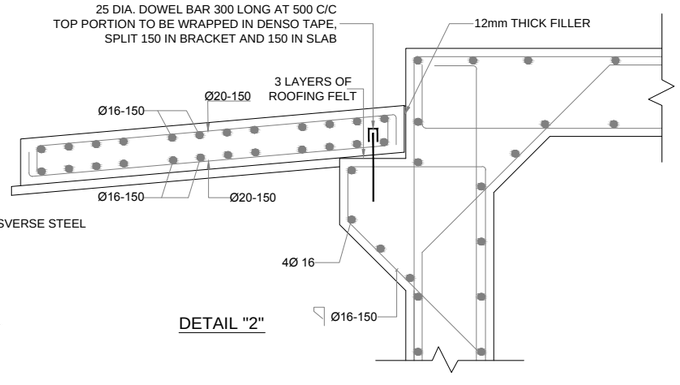
TYPICAL LONGITUDINAL SECTION OF CULVERT



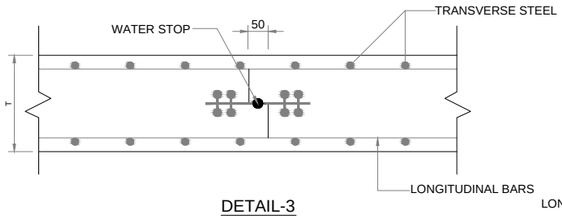
TYPICAL CROSS SECTION OF CULVERT



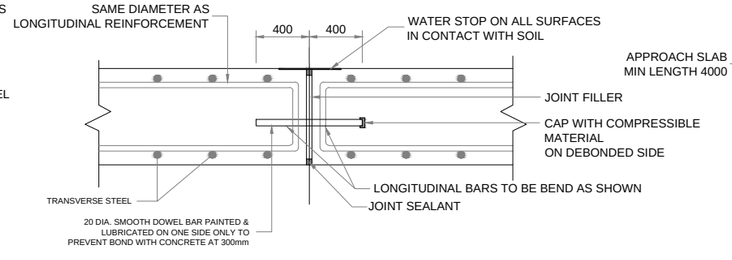
DETAIL "1"



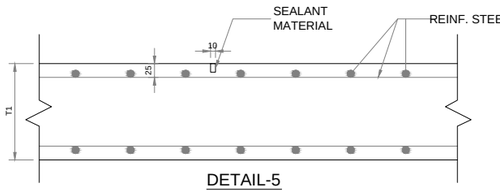
DETAIL "2"



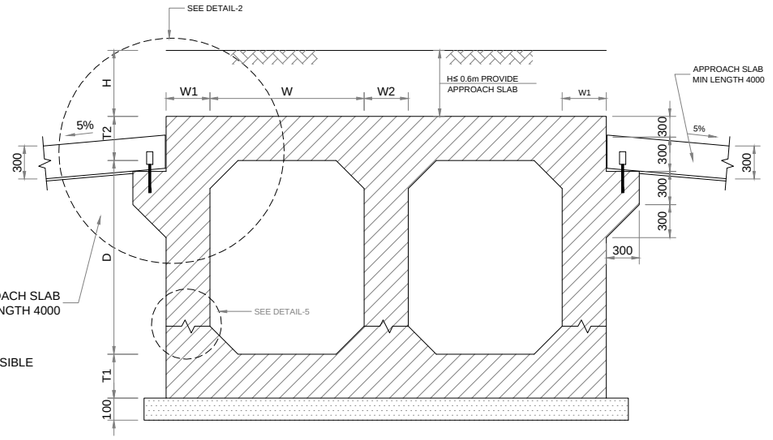
DETAIL-3
EXPANSION JOINT DETAILS



DETAIL-4
CONSTRUCTION JOINT DETAIL



DETAIL-5
LONGITUDINAL PART SECTION
CONTRACTION JOINT DETAIL



TYPICAL CROSS SECTION OF CULVERT
FOR FILL COVER LESS THAN 0.60m

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS INDICATED OTHERWISE.
2. IF THERE IS DISCREPANCY BETWEEN THE REQUIREMENTS IN THE SPECIFICATIONS AND THOSE SHOWN ON THIS DRAWING, THE SPECIFICATIONS SHALL BE FOLLOWED.
3. ALL MATERIALS, FABRICATION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND VERIFIED BY THE ENGINEER.
4. THE REINFORCEMENT ARE FOR GUIDANCE ONLY.THE CONTRACTOR SHALL PREPARE AND SUBMIT DRAWING SHOWING REINFORCEMENT DETAILS WITH REQUIRED STRUCTURAL CALCULATIONS FOR THE ENGINEER APPROVAL.
5. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 25x25mm CHAMFER.
6. RIPRAP SHALL BE PROVIDED ON THE UPSTREAM AND DOWNSTREAM SIDES OF CULVERT. THE EXTENT OF RIPRAP SHALL SUIT SITE CONDITIONS.
7. CONCRETE COVER TO REINFORCEMENT SHALL BE AS PER SPECIFICATION.
8. APPROACH SLABS SHOULD BE PROVIDED FOR FILL HEIGHTS LESS THAN OR EQUAL TO 0.60m.
9. FOR SITES WITH HIGH GROUND WATER, THE CONTRACTOR IS REQUIRED TO PERFORM A STABILITY CHECK FOR THE STRUCTURES AGAINST UPLIFT/FLOATATION CONSIDERING DIFFERENT CASES OF LOADING TO THE APPROVAL OF THE ENGINEER.
10. LOCATION OF DRAINAGE CULVERT SHALL BE DECIDED ON SITE SUBJECT TO THE APPROVAL OF THE ENGINEER.

d	WATER DEPTH
H	MAX. HEIGHT OF FILL
D	DEPTH OF CULVERT
W	TOTAL WIDTH OF CULVERT
Wc	WIDTH OF CULVERT CELL
W1	THICKNESS OF END WALL
W2	THICKNESS OF MIDDLE WALL
T1	THICKNESS OF BOTTOM SLAB
T2	THICKNESS OF TOP SLAB
CJ	CONSTRUCTION JOINT
EJ	EXPANSION JOINT

REFERENCE DRAWINGS AND DOCUMENTS

No.	REVISIONS	APP'D	DATE

CLIENT

TITLE
STANDARD DRAWINGS
MAIN ROADS

DRAWING TITLE
SURFACE DRAINAGE TYPICAL DETAILS OF BOX CULVERT

DRAWN	-	SCALE	N.T.S
CHECKED	-	DATE	-
APPROVED	-	SIZE	A1
PROJECT No.	-	DWG. No.	N-243