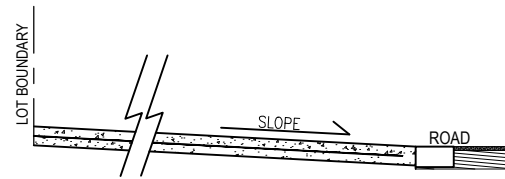


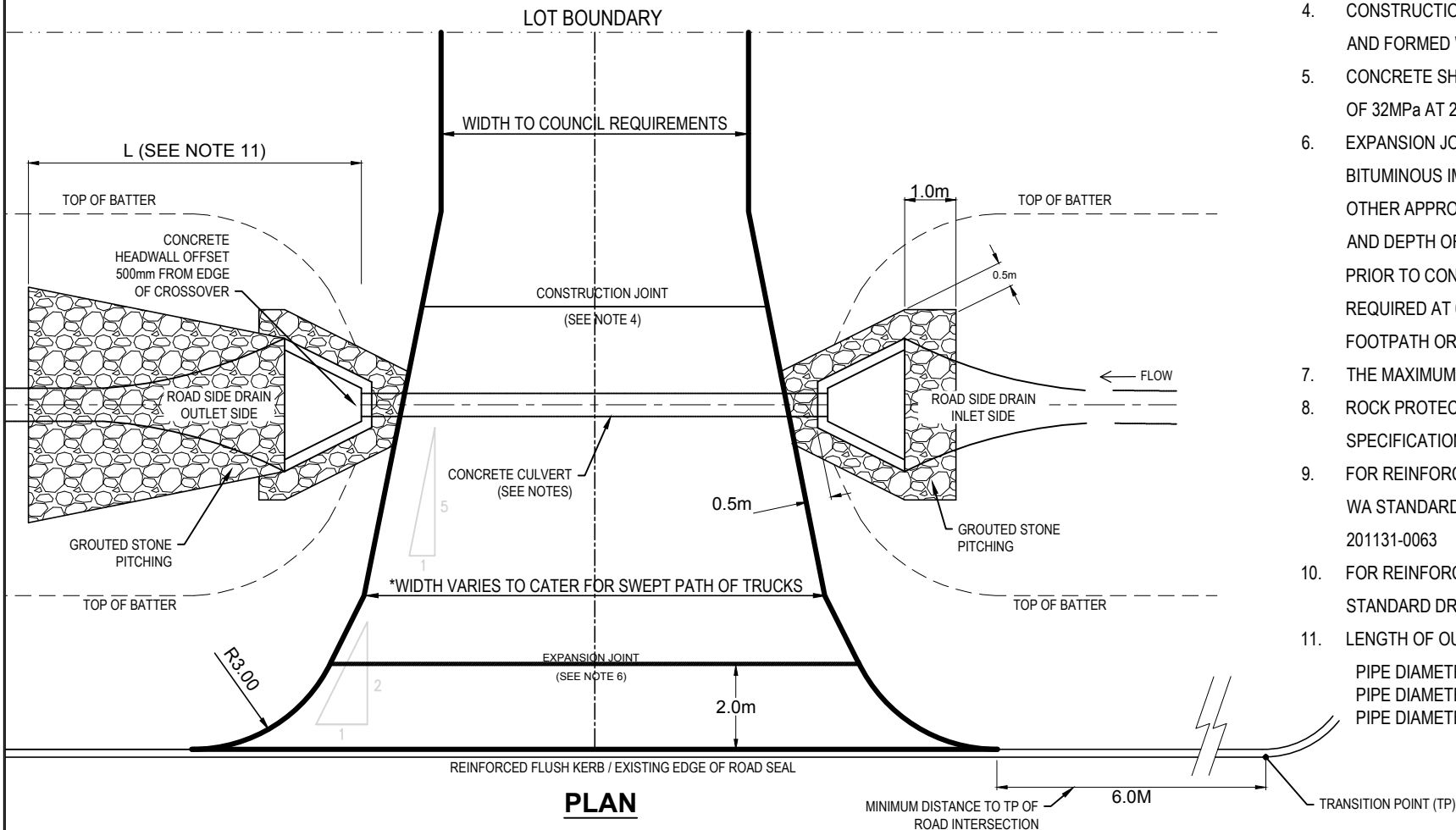
**ELEVATION- WITH CULVERT**



**ELEVATION- WITHOUT CULVERT**

**NOTES**

1. COUNCIL STANDARD CROSSOVER FOR COMMERCIAL AND INDUSTRIAL IS 6m WIDE.
2. CROSSOVER CONCRETE SLAB TO BE 150mm THICK WITH SL82 MESH REINFORCEMENT PLACED CENTRALLY WITH A WATERPROOF MEMBRANE.
3. EXISTING CONCRETE KERB (OTHER THAN FLUSH KERB) SHALL BE REMOVED AND THE EDGE OF SEAL SAW-CUT TO GIVE A TRUE AND NEAT EDGE.
4. CONSTRUCTION JOINTS SHALL BE 20mm DEEP AND 5mm WIDE AND FORMED WITH A CUTTING TOOL AT 3m INTERVALS.
5. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28 DAYS.
6. EXPANSION JOINT TO BE 15mm WIDE AND FILLED WITH BITUMINOUS IMPREGNATED PARTICLE BOARD STRIP OR OTHER APPROVED MATERIAL EXTENDING FOR THE FULL WIDTH AND DEPTH OF THE CONCRETE. THE FILLER SHALL BE PLACED PRIOR TO CONCRETE BEING POURED. EXPANSION JOINTS ARE REQUIRED AT 6m INTERVALS AND BETWEEN ANY ADJOINING FOOTPATH OR KERB.
7. THE MAXIMUM GRADE FOR THE VERGE TO BE 2%.
8. ROCK PROTECTION SIZES TO BE AS PER MAIN ROADS WA SPECIFICATION 406
9. FOR REINFORCED CONCRETE PIPES, REFER TO MAIN ROADS WA STANDARD DRAWINGS 201131-0061-4, 201131-0062-4 & 201131-0063
10. FOR REINFORCED BOX CULVERTS, REFER TO MAIN ROAD WA STANDARD DRAWINGS 201131-0064, 201131-0065 & 201131-0066.
11. LENGTH OF OUTLET ROCK PROTECTION, L,  
 PIPE DIAMETER (OR BOX HEIGHT)  $D = 450\text{mm}$  ,  $L = 4D$   
 PIPE DIAMETER (OR BOX HEIGHT)  $D > 450\text{mm} \leq 1500\text{mm}$  ,  $L = 6D$   
 PIPE DIAMETER (OR BOX HEIGHT)  $D > 1500\text{mm} \leq 2500\text{mm}$  ,  $L = 8D$



**PLAN**

**COMMERCIAL CROSSOVER WIDTH**  
STANDARD 6m WIDE

A	21/10/19	ORIGINAL ISSUE	
RV	DATE	REVISIONS	

DO NOT SCALE  
TAKE FIGURED DIMENSION ONLY

DRAWN BY  
TECHNICAL SERVICES

 **CITY OF KARRATHA**  
STANDARD DRAWINGS

TITLE  
**STANDARD COMMERCIAL CONCRETE CROSSOVER**

STANDARD DRAWING No  
**KSD-1002**

A  
RV