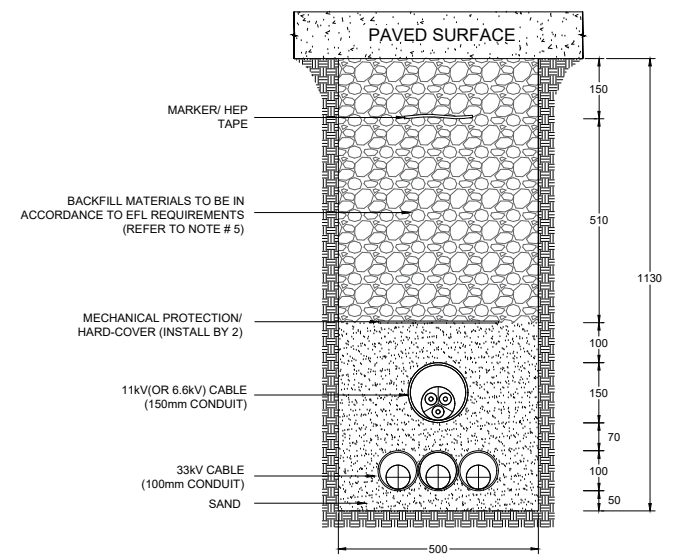
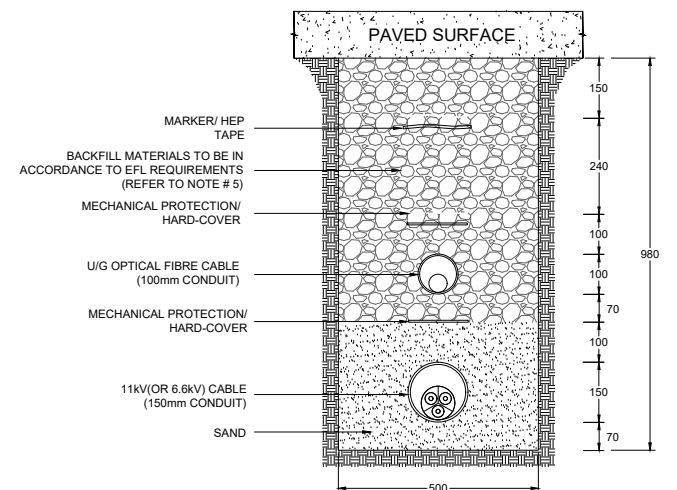


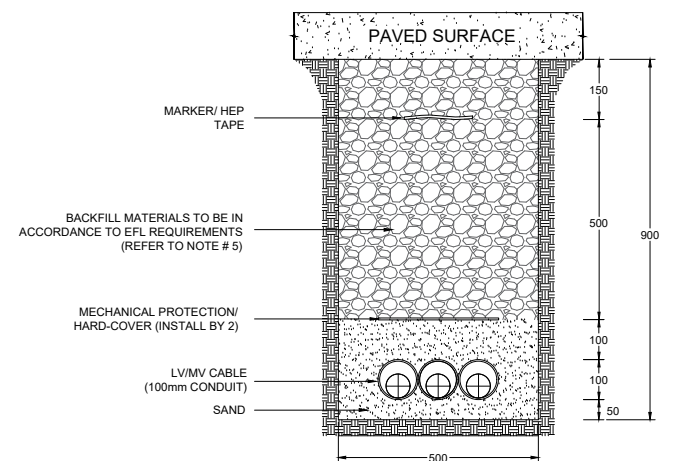
33kV + 11kV TRENCH



11kV+FIBRE TRENCH

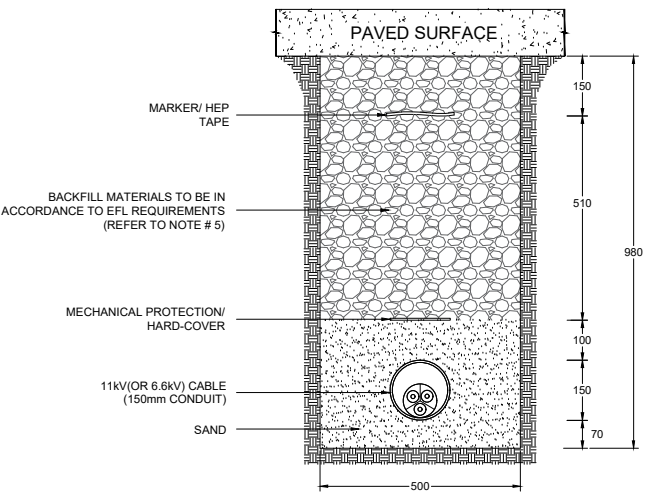


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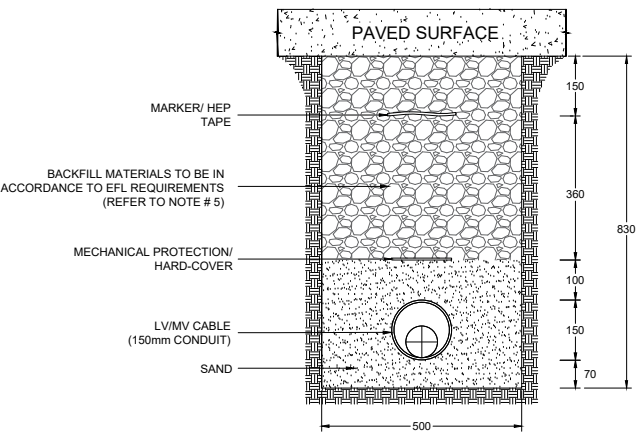


TYPICAL TRENCH DETAILS ACROSS ROADWAYS, DRIVEWAYS & FOOTPATH

11kV TRENCH

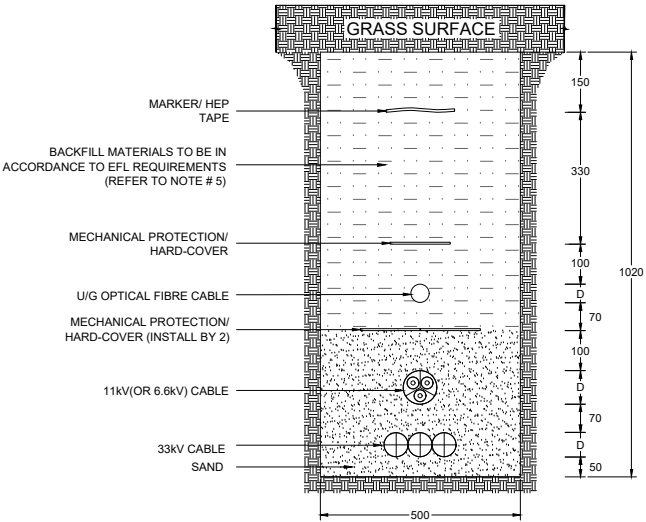


LV/MV TRENCH

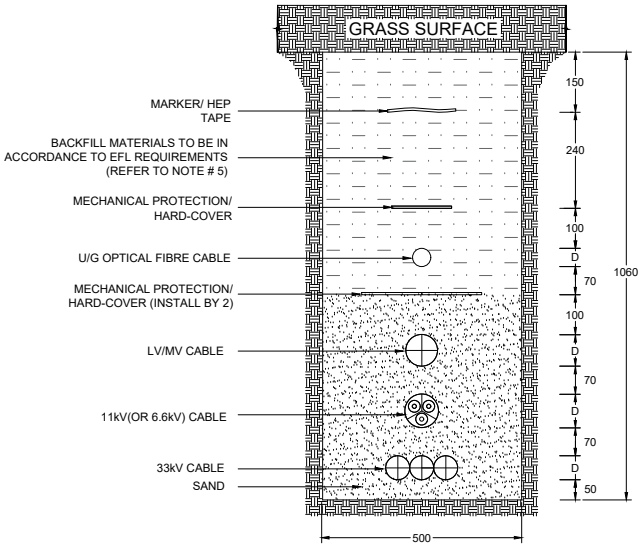


TYPICAL TRENCH DETAILS FOR DIRECT BURIED CABLES

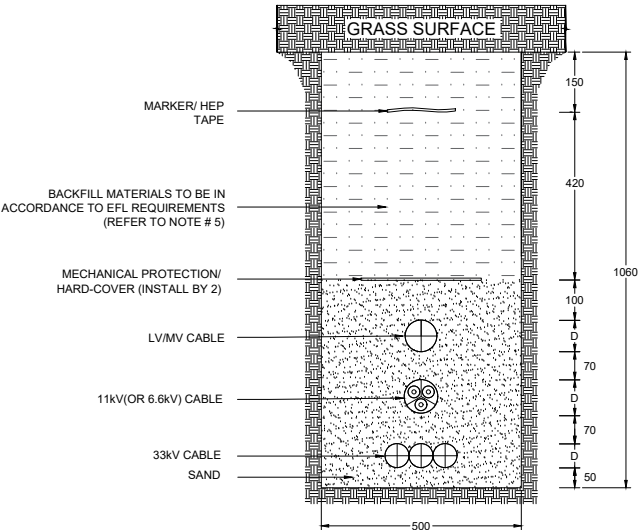
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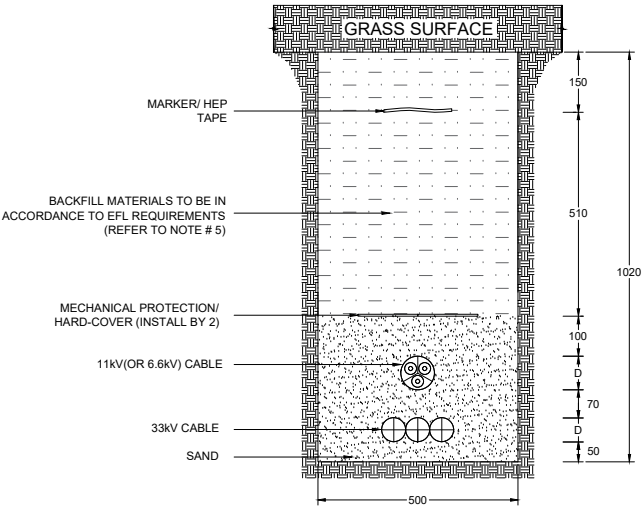
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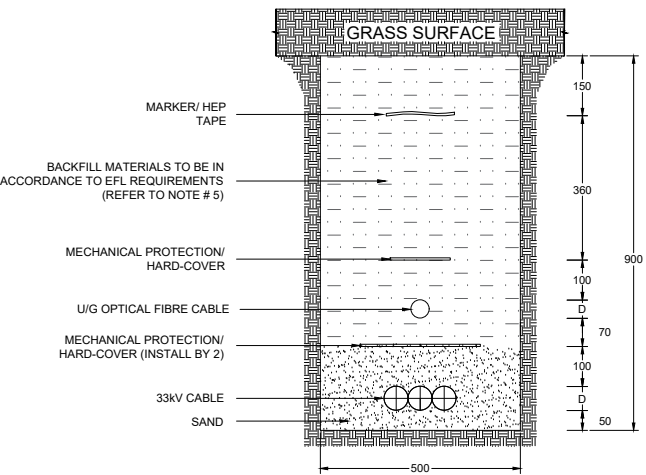
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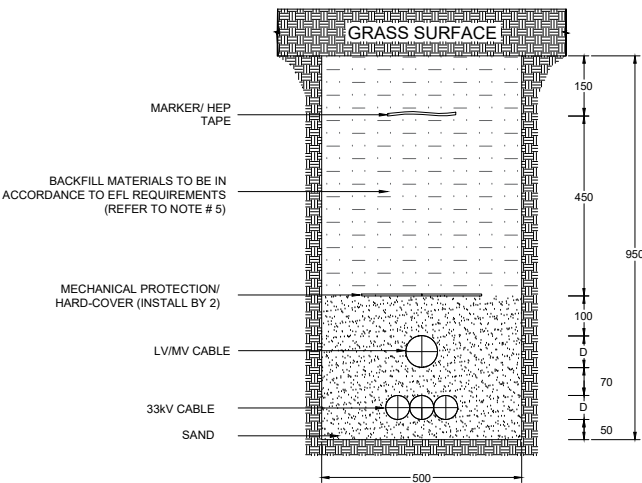
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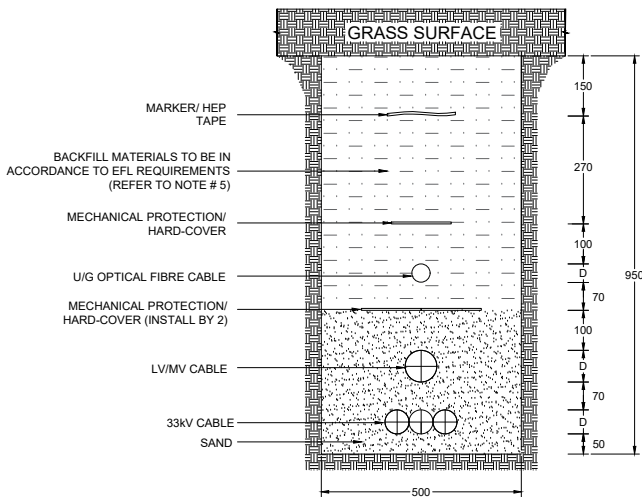
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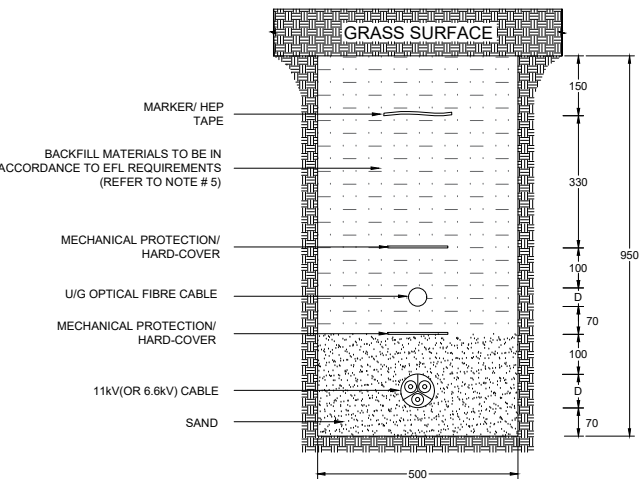
33kV + LV/MV TRENCH



33kV + LV/MV + FIBRE TRENCH



11kV+FIBRE TRENCH

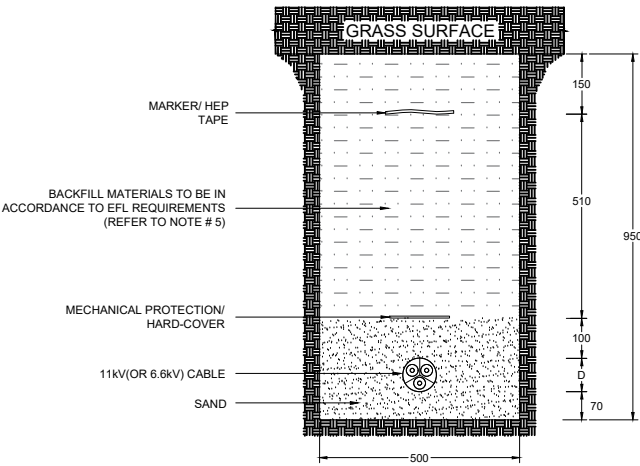


SHEET 2 OF 3

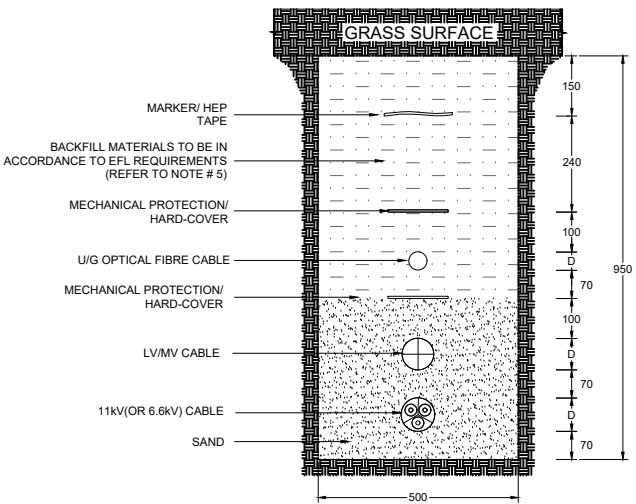
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								CHECKED BY	RAJIV	12.07.19				
2	REVISED TO INCLUDED ADDITIONAL DETAILS		05.10.21					CHIEF DRAUGHTSMAN	KELEVI	12.07.19				
1	REVISED TO INCLUDED ADDITIONAL DETAILS		12.07.19			RS	BK	DESIGN ENGINEER						
0	ORIGINAL ISSUE		27.03.19	SV			BK	STANDARDS ENGINEER	RAJIV	12.07.19				
No.	REVISION		DATE	BY	DE	SE	APP	HEAD OF DEPARTMENT	BASANT	12.07.19	STANDARD EFL TRENCH DETAILS			
												DRAWING NUMBER		
												A3	01	E24
												028	2	
												SCALE : NTS		

TYPICAL TRENCH DETAILS FOR DIRECT BURIED CABLES

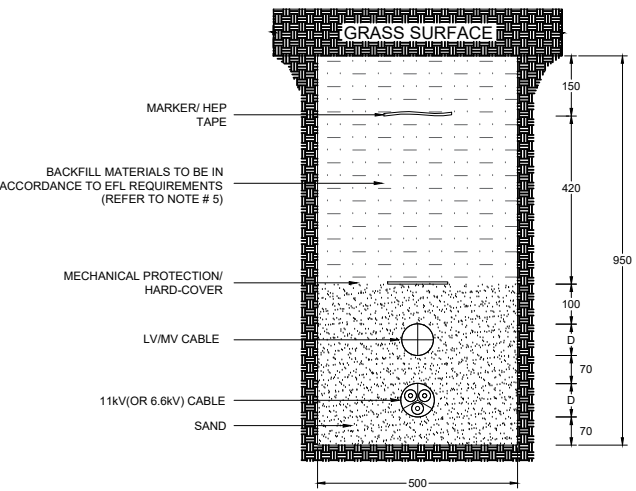
11kV TRENCH



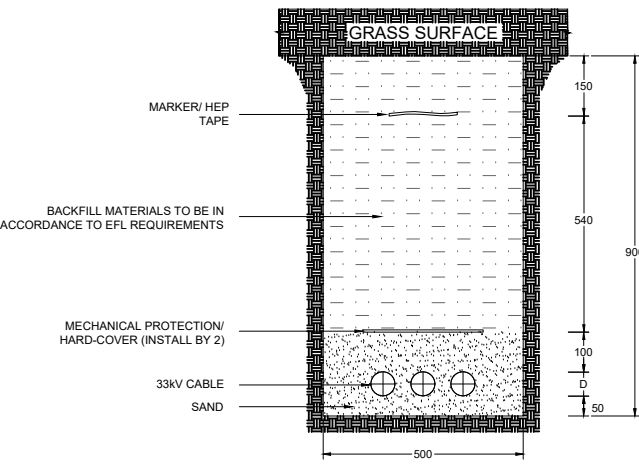
11kV + LV/MV + FIBRE TRENCH



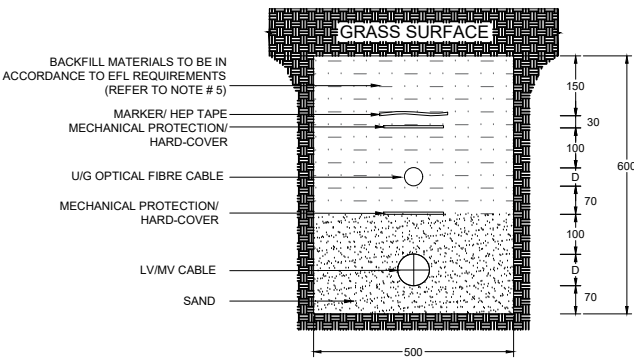
11kV + LV/MV TRENCH



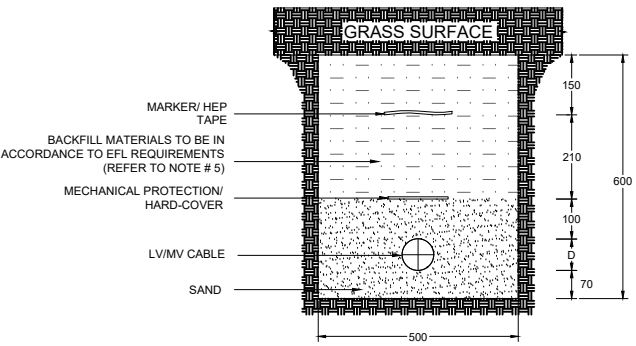
33kV TRENCH



LV/MV + FIBRE TRENCH



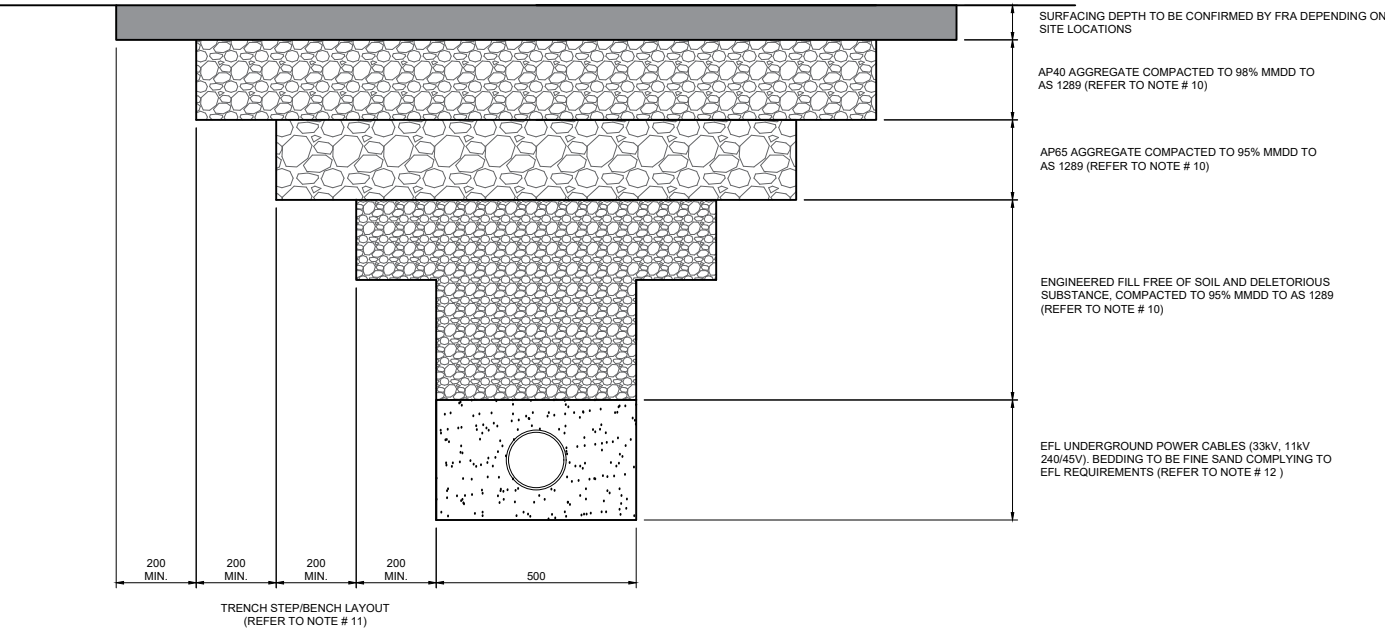
LV/MV TRENCH



NOTE:

1. THE STANDARD TRENCH DETAILS ARE IN ACCORDANCE WITH THE ELECTRICITY REGULATION 2019 AND RELEVANT AS/NZS STANDARD.
2. CABLES LAID IN TRENCH ACROSS ROADWAYS AND DRIVEWAYS SHALL BE IN ELECTRICAL CONDUITS. CABLES LAID ACROSS FOOTPATH SHALL BE IN ELECTRICAL CONDUITS WHEREAS CABLES LAID ALONG FOOTPATH CAN EITHER BE DIRECTLY BURIED OR IN ELECTRICAL CONDUITS DEPENDING ON AVAILABILITY OF UTILITY RESERVES. THE CONDUITS SHALL MEET THE REQUIREMENTS OF AS/NZS 2053.
3. WHERE MORE THAN ONE CONDUIT IS LAID, THE TRENCH WIDTH WILL CHANGE ACCORDINGLY HAVING THE CONDUITS/ CABLES 70mm APART.
4. THE DESIGNER SHALL INCLUDE SPARE CONDUITS AT ROADWAYS, DRIVEWAYS AND FOOTPATH AS DEEMED NECESSARY.
5. THE BACKFILL MATERIAL AT ROADWAYS, DRIVEWAYS AND FOOTPATHS SHALL BE AP40 AGGREGATE AND MECHANICALLY COMPACTED DURING INSTALLATION. FOR DIRECT BURIED CABLES, FRIABLE SOIL SHALL BE USED WITHOUT ANY SHARP STONES.
6. THE FINE SAND USED SHALL MEET THE REQUIREMENTS STATED IN DOCUMENT "SPECIFICATION FOR BEDDING SAND USED FOR UNDERGROUND CABLING WORKS".
7. THE CABLE DEPTH FROM GROUND LEVEL HAS BEEN OBTAINED TO ACHIEVE MAXIMUM CURRENT CARRYING CAPACITY.
8. THE HARD COVER/ MECHANICAL PROTECTION USED SHALL MEET THE REQUIREMENTS OF AS 4702.
9. THE HEP TAPE (MARKER) USED SHALL MEET THE REQUIREMENTS OF AS/NZS 2648.1.
10. THE AP40 BASECOURSE, AP65 SUB-BASE AGGREGATE AND ENGINEERED FILLING DEPTHS WILL DEPEND ON THE MAXIMUM ALLOWABLE BURYING DEPTH OF EFL UNDERGROUND POWER CABLES. THE POWER CABLE DEPTHS CAN BE OBTAINED FROM SHEETS 1 & 2 OF THIS DRAWING. IT IS NECESSARY THAT THE CABLE BURYING DEPTH BE FOLLOWED TO OBTAIN THE MAXIMUM CURRENT CARRYING CAPACITIES.
11. THE TRENCH STEP/BENCH LAYOUT SHALL BE MAINTAINED FOR ALL ROAD CROSSINGS.
12. THE BEDDING MATERIAL FOR ALL ROAD CROSSING TRENCH SHALL BE FINE SAND COMPLYING TO EFL REQUIREMENTS AS MENTIONED ON NOTE # 6.
13. WHERE INCONSISTENCIES ARE IDENTIFIED, EFL SHALL BE CONTACTED FOR RESOLUTION.

FIJI ROADS AUTHORITY (FRA) - SERVICE TRENCH REQUIREMENTS ACROSS ROADS



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