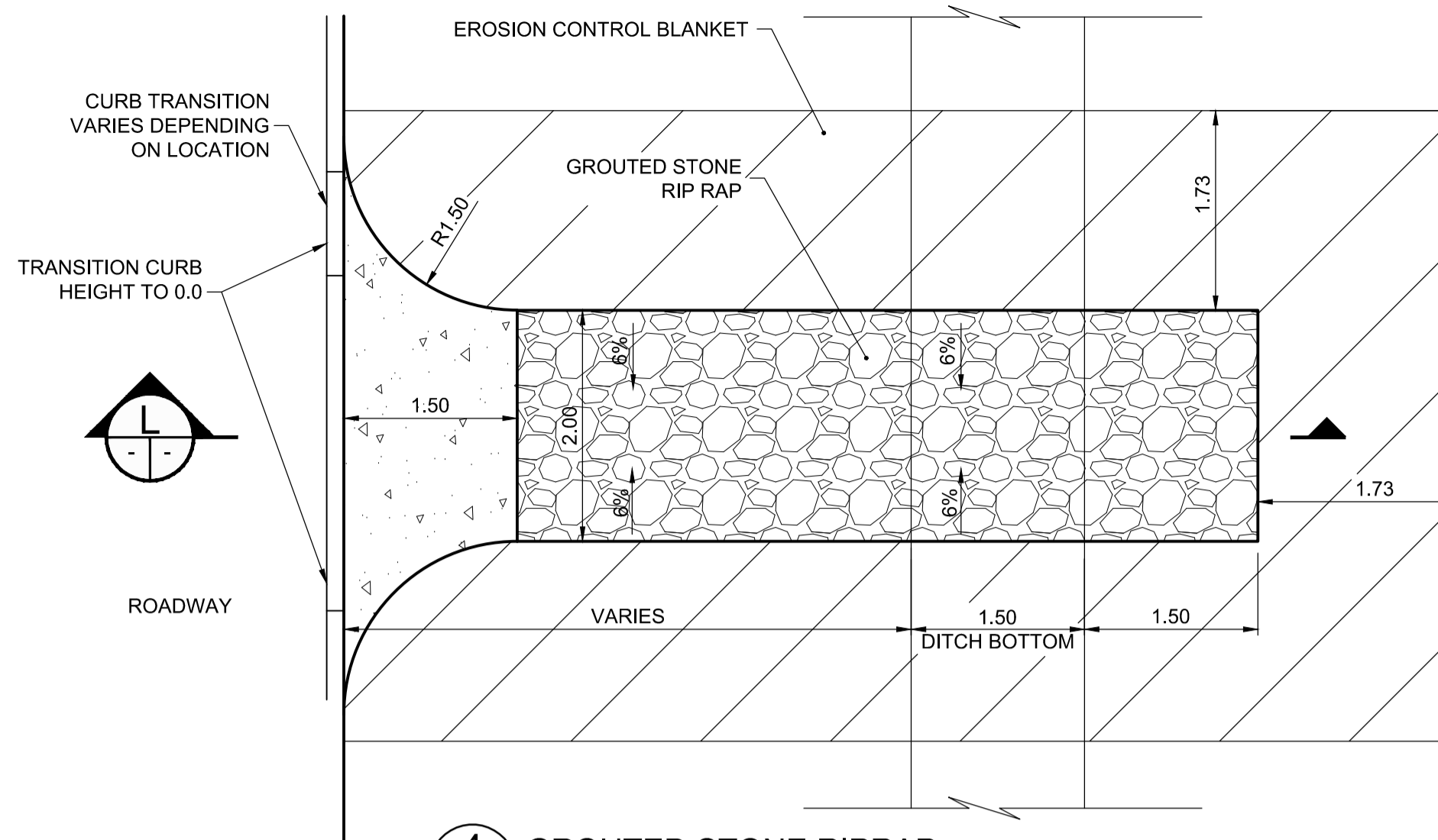
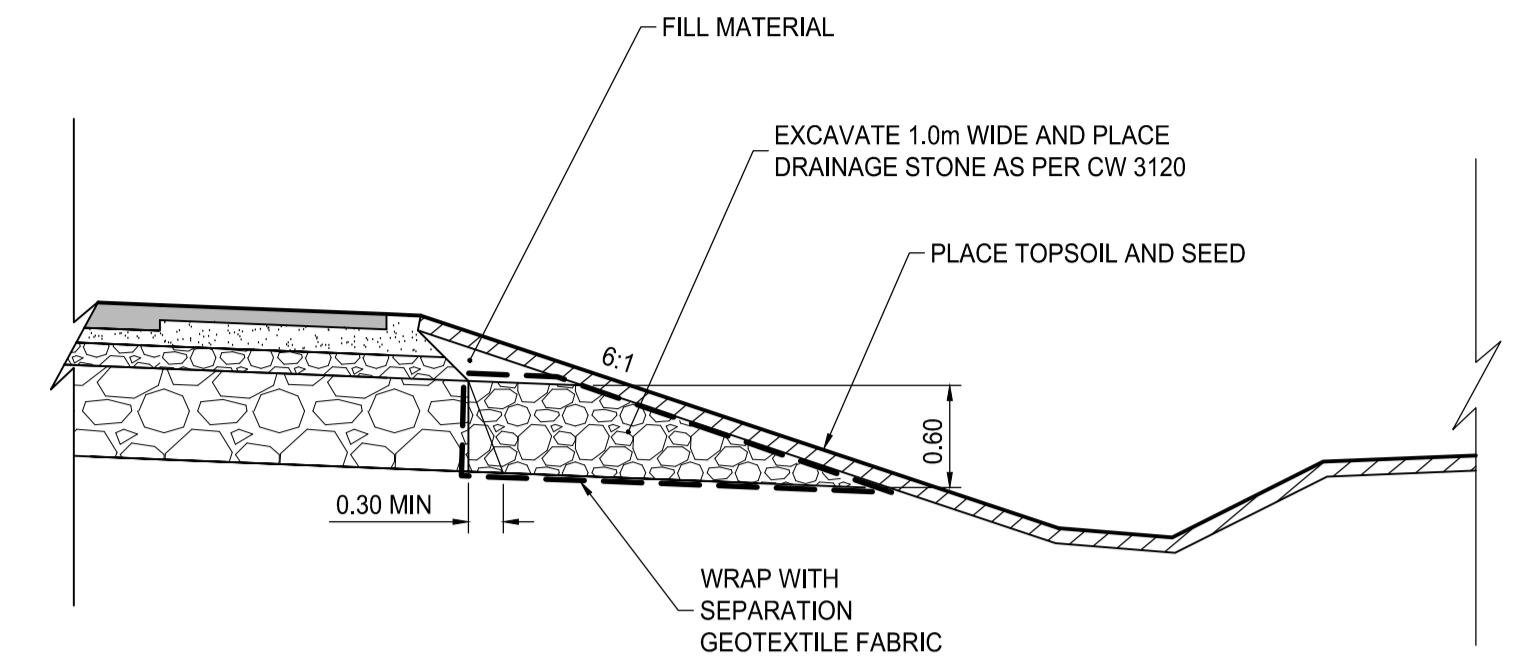


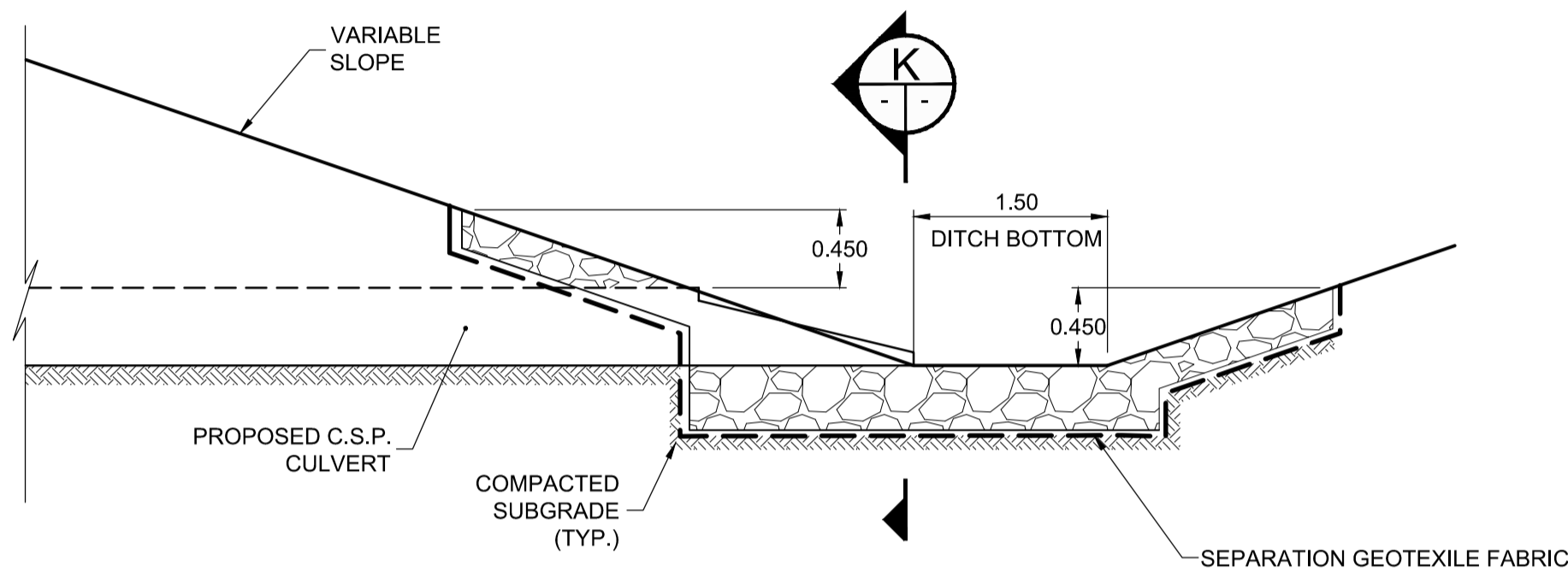
**3** GROUTED RIP-RAP END CULVERT  
5, 6, 7, 8, 9, 10, 16 SCALE 1:50



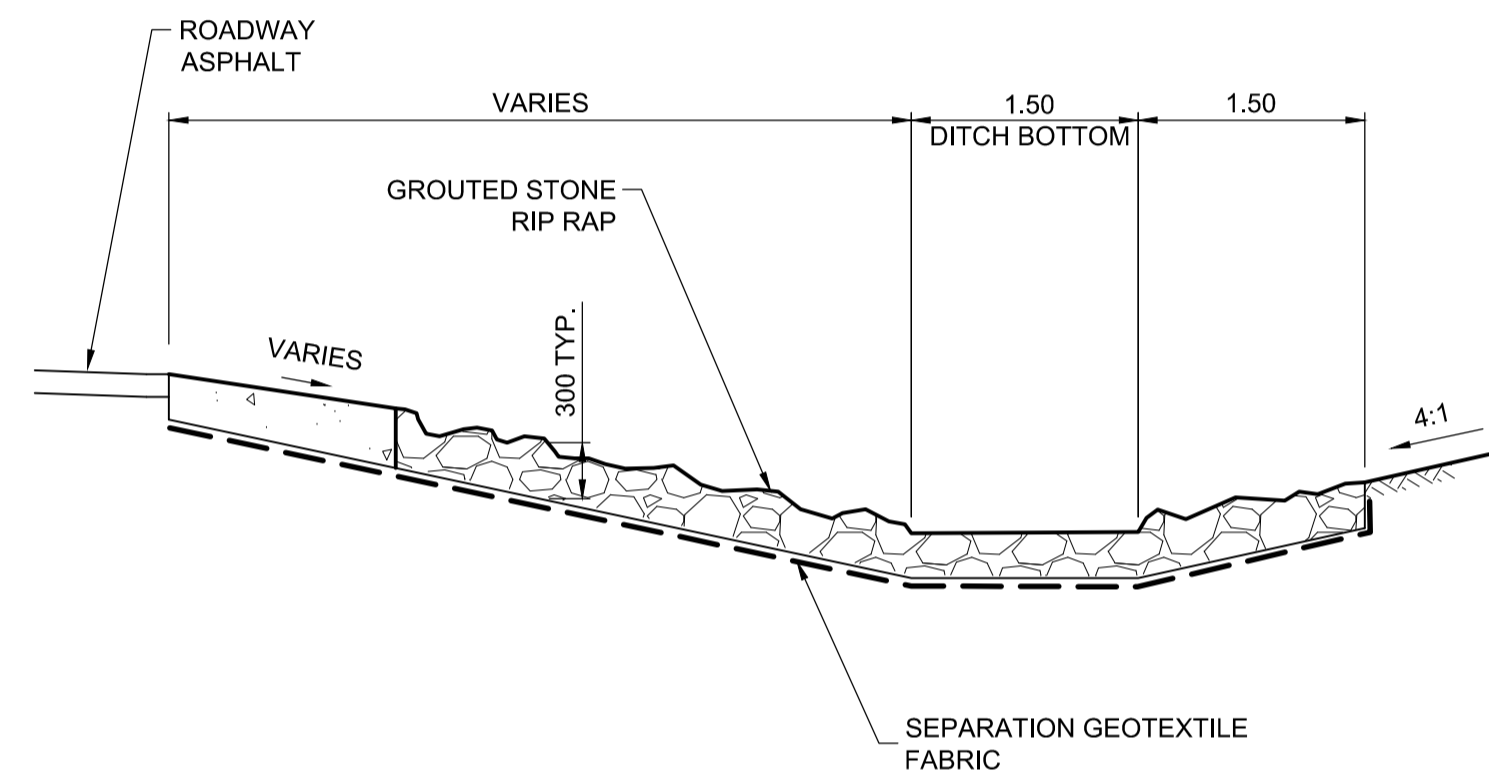
**4** GROUTED STONE RIPRAP  
7, 10, 16 SCALE 1:50



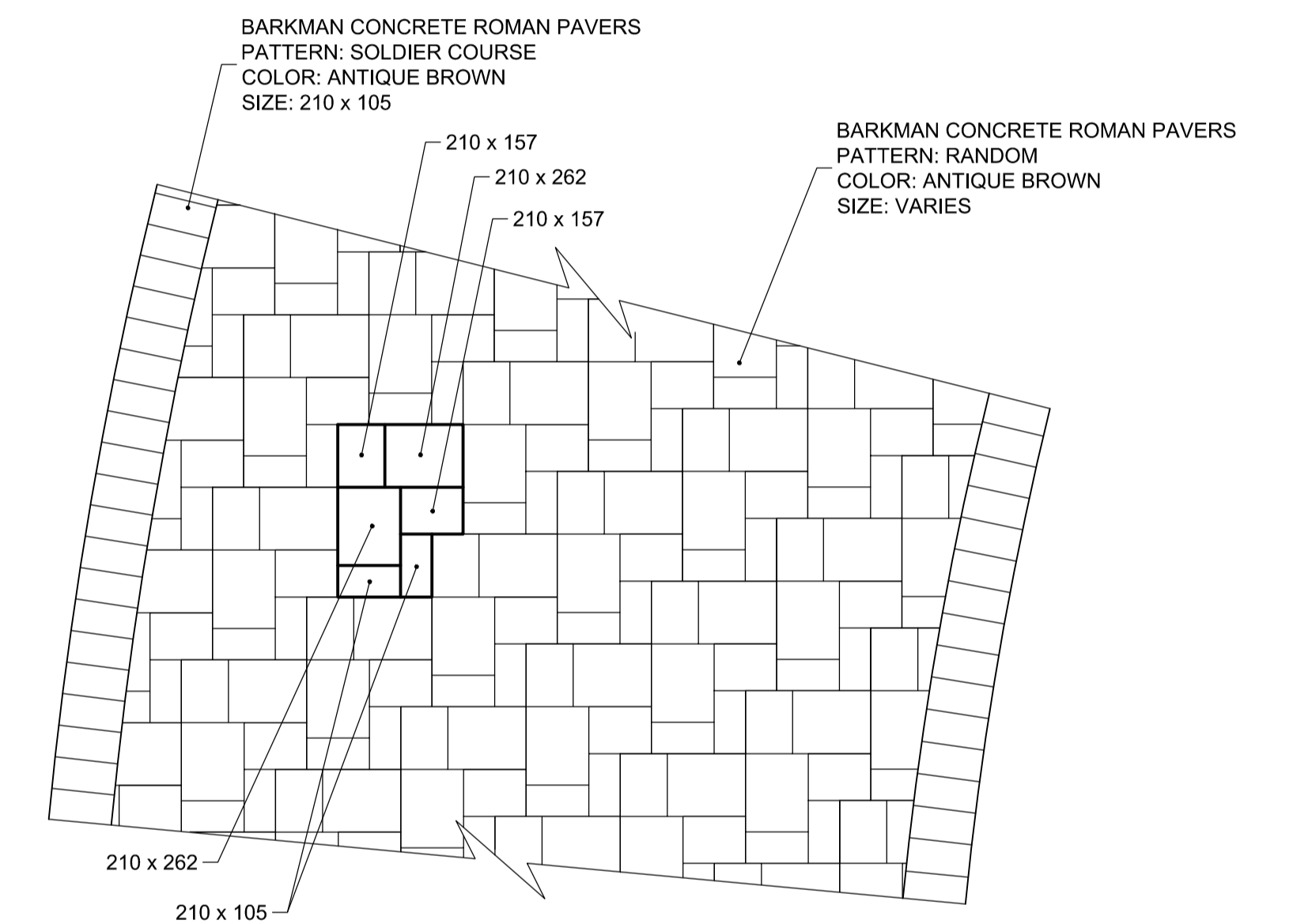
**7** FRENCH DRAIN  
5, 6, 7, 8, 9, 10, 16 SCALE HORZ: 1:100 VER: 1:50



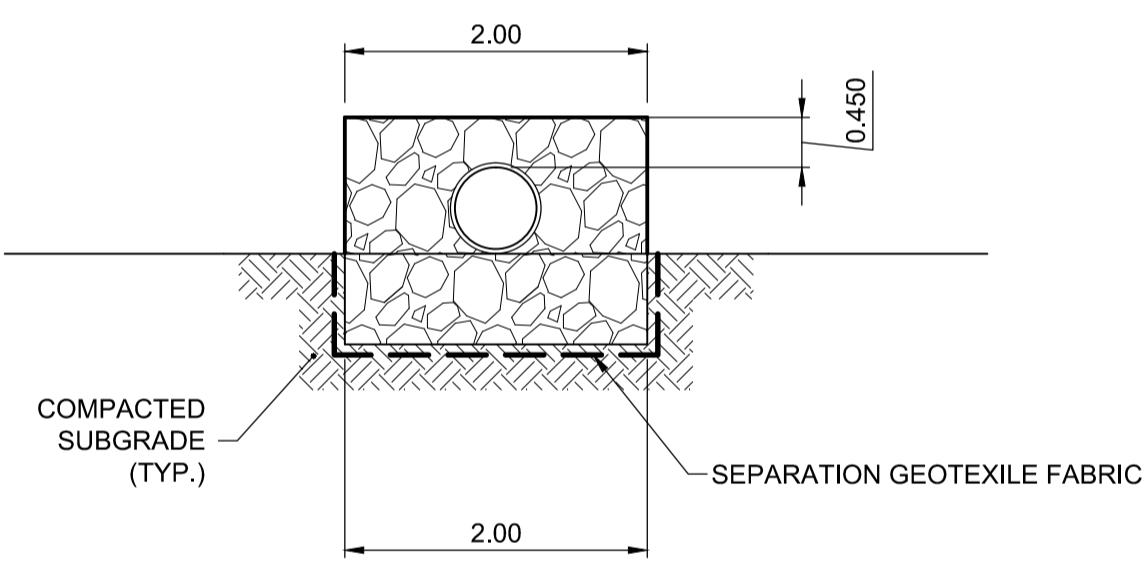
**J** SECTION  
SCALE 1:50



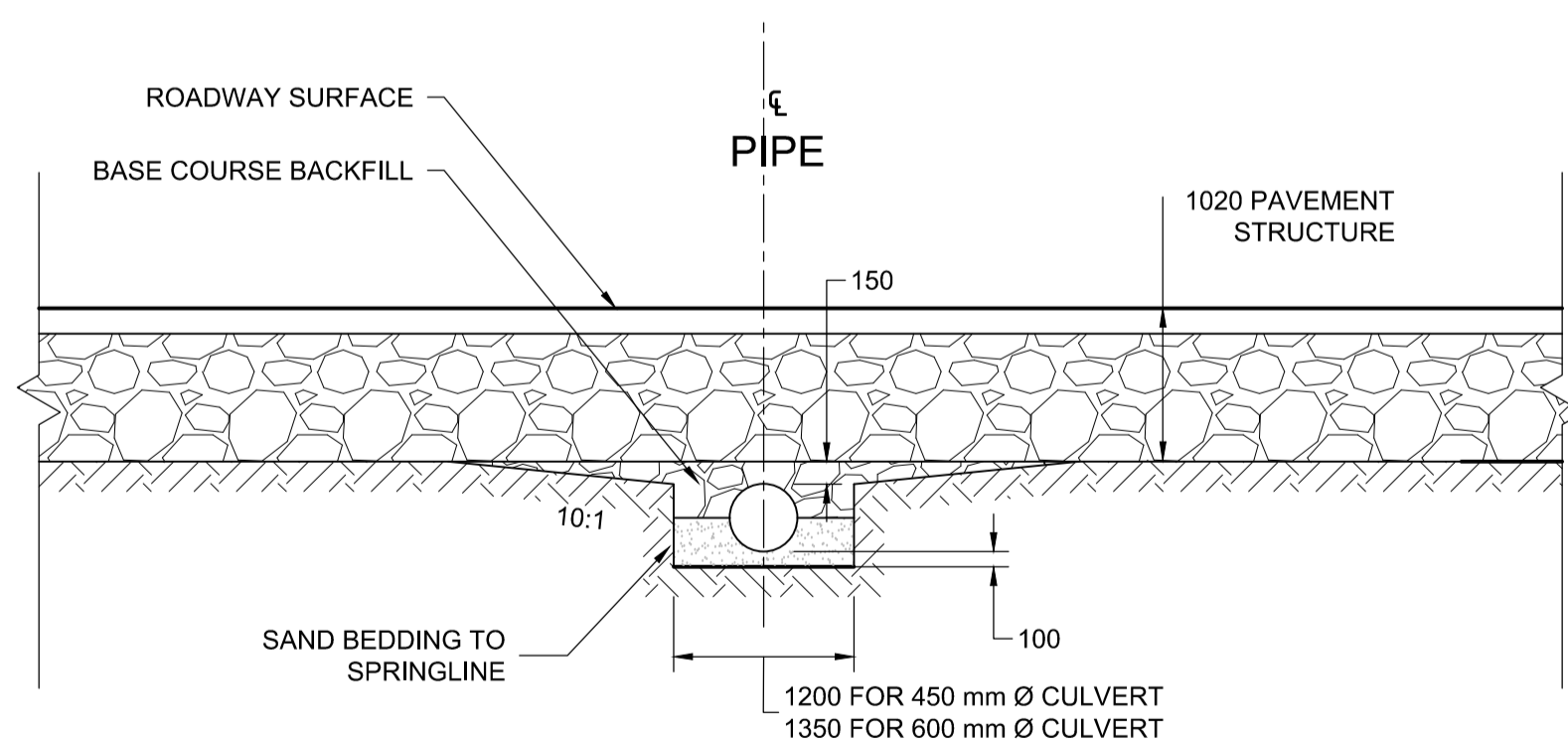
**L** GROUTED STONE RIPRAP SECTION  
SCALE 1:50



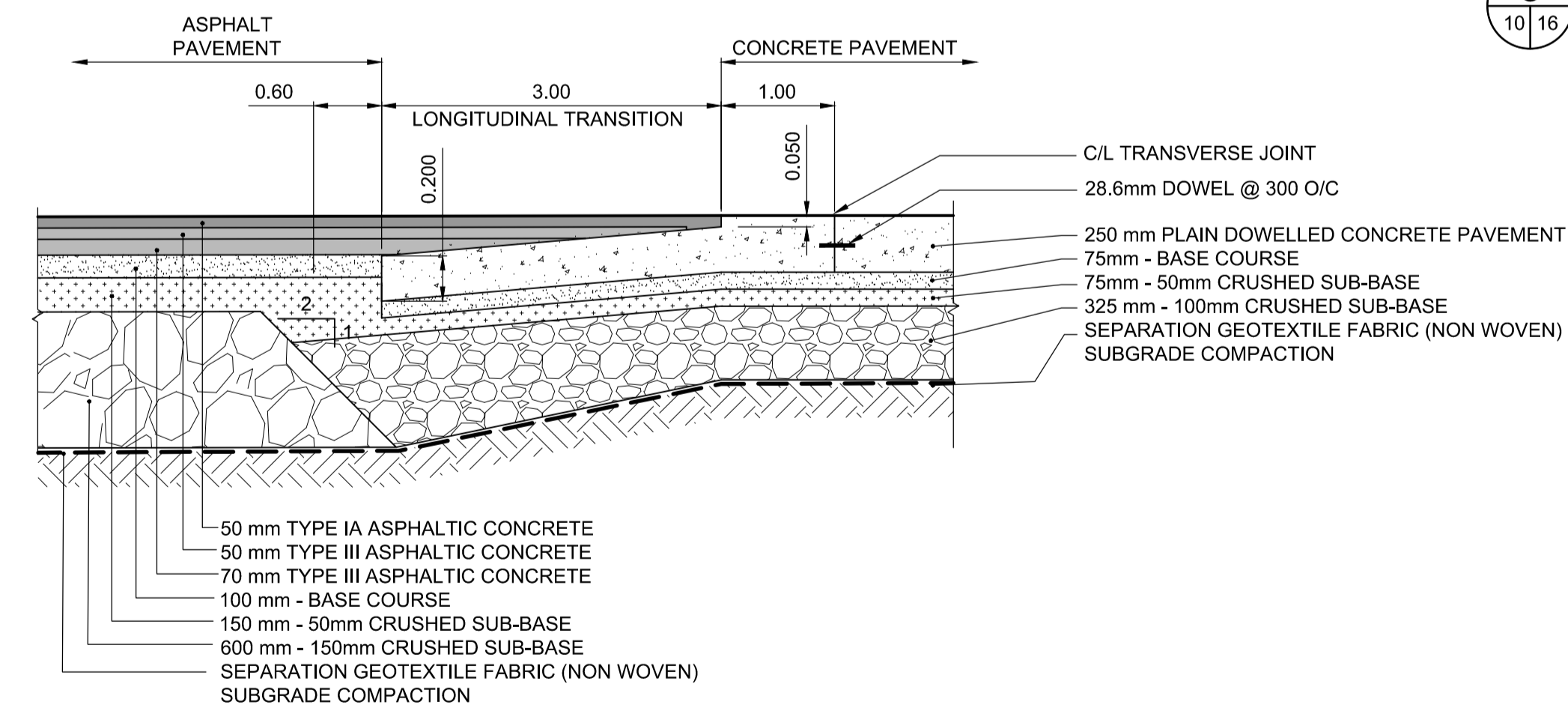
**8** PAVING STONES ON SMART CHANNEL ISLAND  
10, 16 SCALE 1:20



**K** SECTION  
SCALE 1:50



**9** CULVERT FROST TREATMENT  
5, 6, 7, 8, 9, 16 SCALE 1:50



**6** TRANSITION SLAB - CONCRETE TO ASPHALT ROADWAY  
10, 16 SCALE HORZ: 1:50 VERT: 1:25



**METRIC**

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**WARNING**

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.
3. OBTAIN EXCAVATION PERMITS PRIOR TO CONSTRUCTION.

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150 W.M.	150 W.M.	MTS	M.T.S.	MTS	150 mm W.M.	150 mm W.M.	150 mm W.M.
WATERMAIN	HYDRANT	VALVE	CONCRETE	ASPHALT	PLANNING	LAND DRAINAGE SEWER	WASTE WATER SEWER
300 LDS	250 WWS	MANHOLE	CATCH BASIN	CURB INLET	TEST HOLES	CULVERT	GAS
EXISTING	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED

UNDERGROUND STRUCTURES	DATE
SUPPL. U/G STRUCTURES COMMITTEE	

NO.	REVISIONS	DATE	BY
1	ISSUED FOR TENDER	13-04-05	MRD
0	ISSUED FOR 90% REVIEW	13-02-22	MRD

DESIGNED BY	MRD
DRAWN BY	PMW
CHECKED BY	DBW
APPROVED BY	DPK

DESIGN TEAM	ENGINEER'S SEAL
<b>DILLON CONSULTING</b>	<b>M.R. DOUCET</b> 2013-04-05 Member 22306

CONSULTANT PROJECT NUMBER	12-6606
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THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT	
WWARP PART 3 - CONTRACT 3 STA: 1+450 TO STA: 2+922.4	CITY DRAWING NUMBER P-3344-16
DETAILS	SHEET 16 OF 23 CONSULTANT DRAWING NUMBER