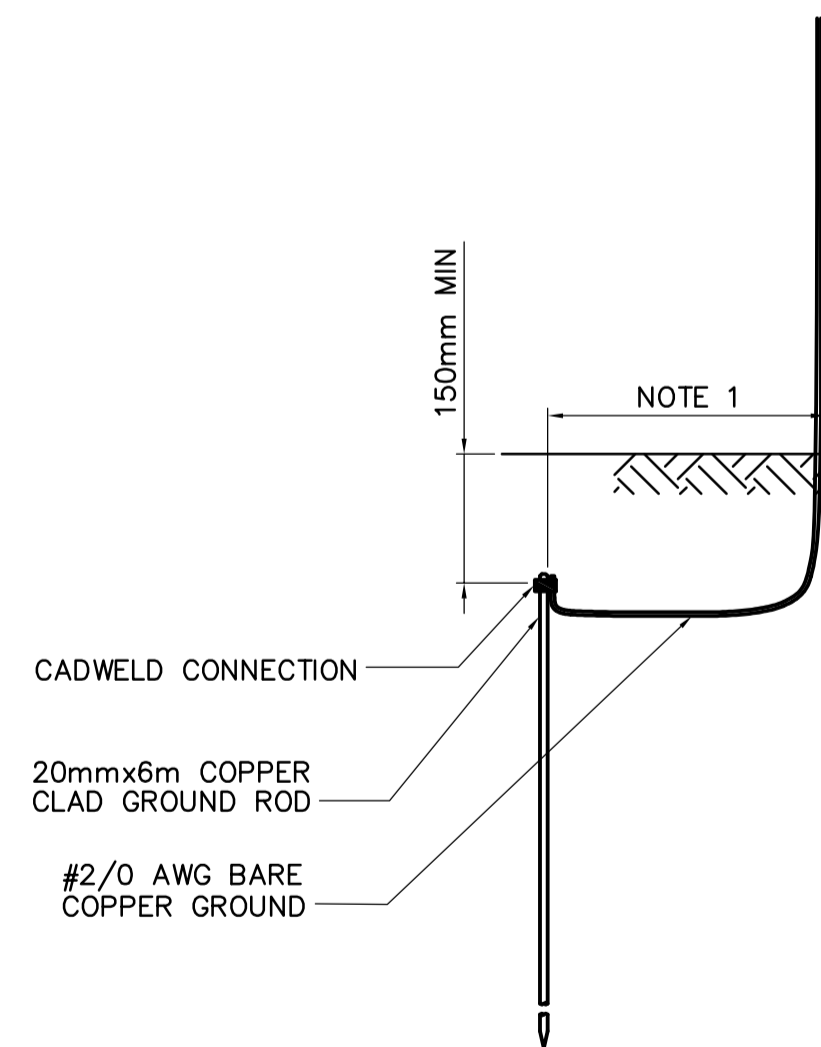


LIGHTNING PROTECTION PLAN
1:75

NOTES:

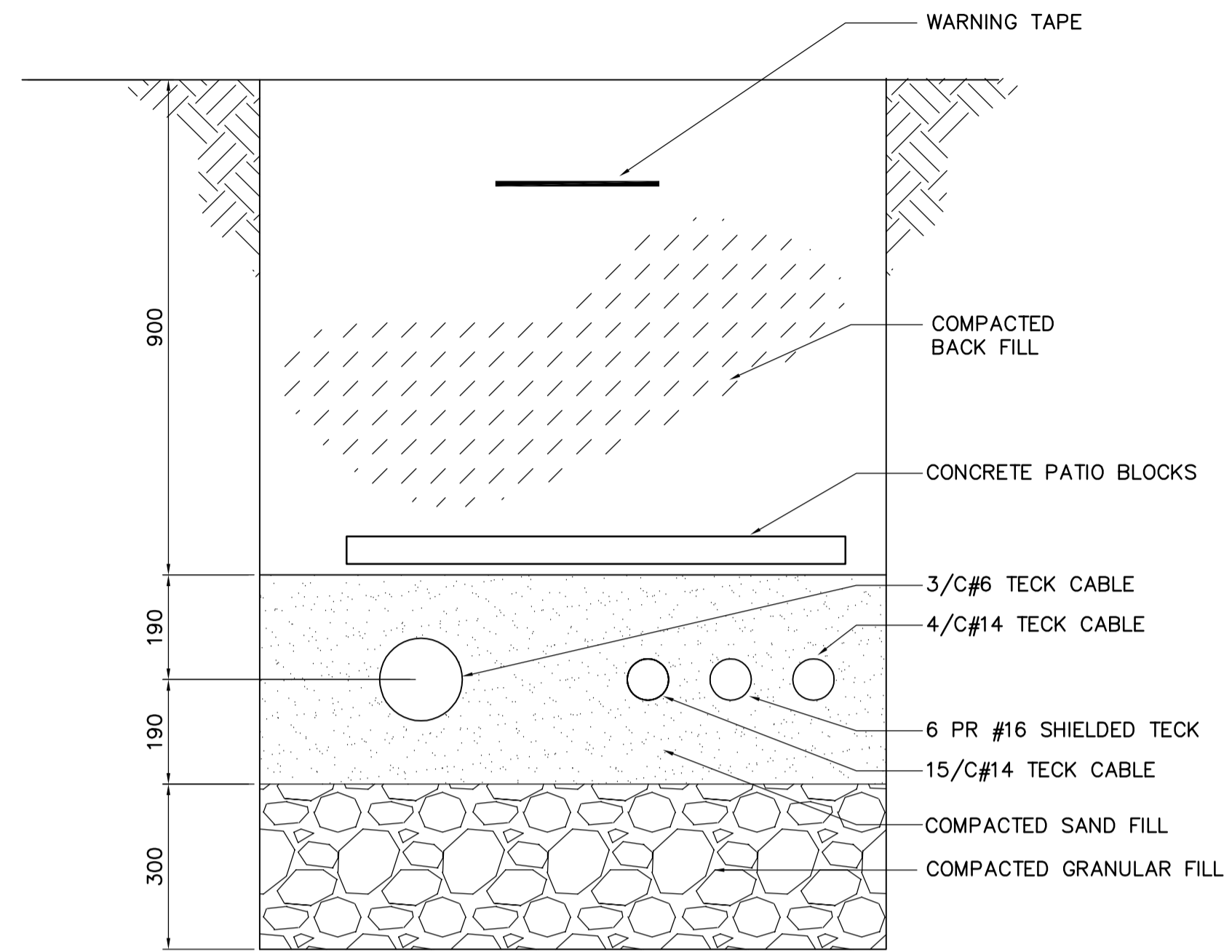
1. BOND OVERFLOW PIPE AND BRANCH 1 PIPE TO LIGHTNING PROTECTION SYSTEM.
2. GROUND RODS SHALL BE 20mmx6m COPPER CLAD.
3. INSTALLATION SHALL CONFORM TO CLASS IV AS SPECIFIED IN CSA-B72-M87.
4. AIR TERMINALS SHAL BE MIN. 1200m ABOVE ROOF. PROVIDE TRIPOD BRACE SUPPORTS.



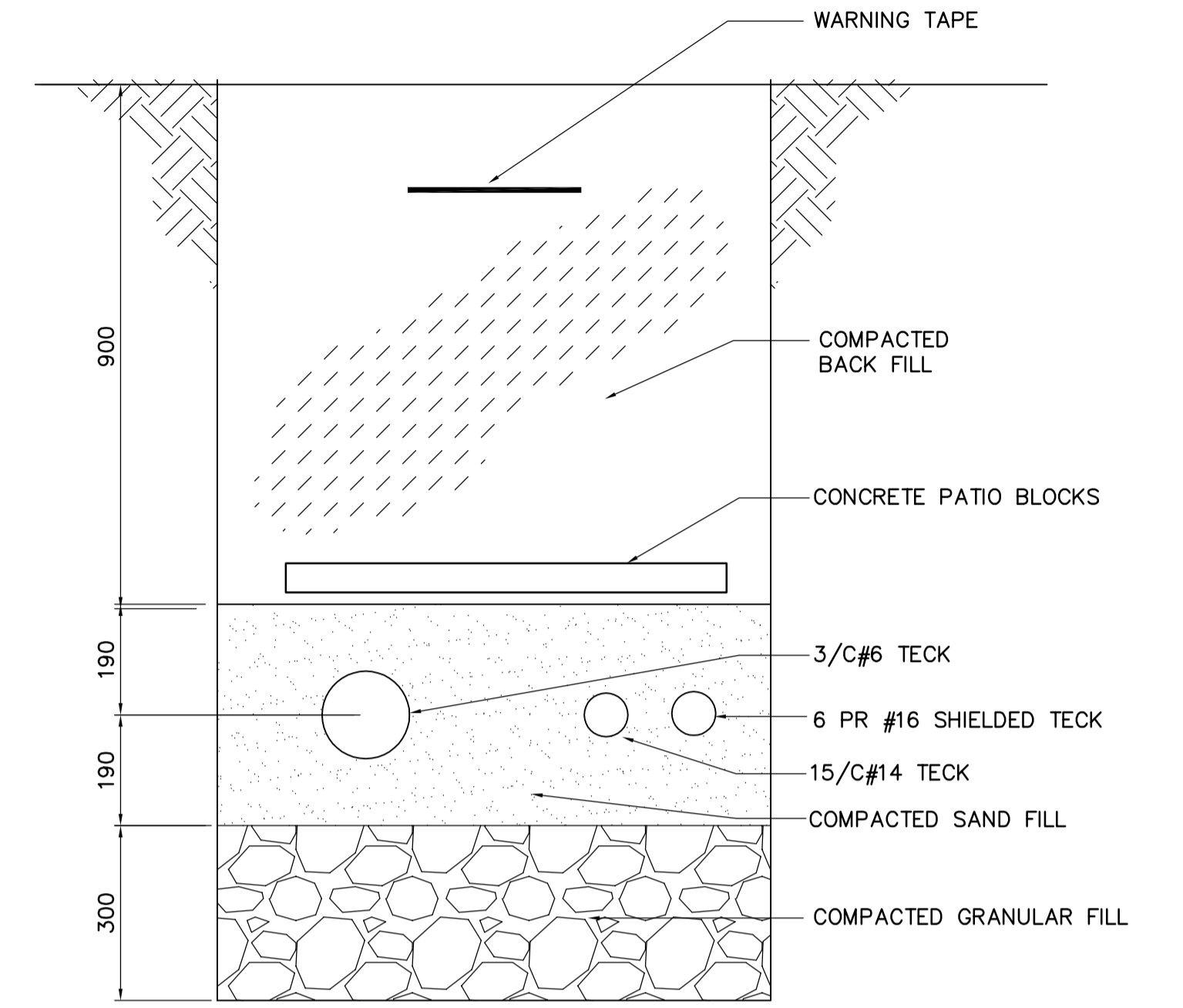
A LIGHTNING GROUND ELECTRODE DETAIL
SCALE: NTS

NOTE:

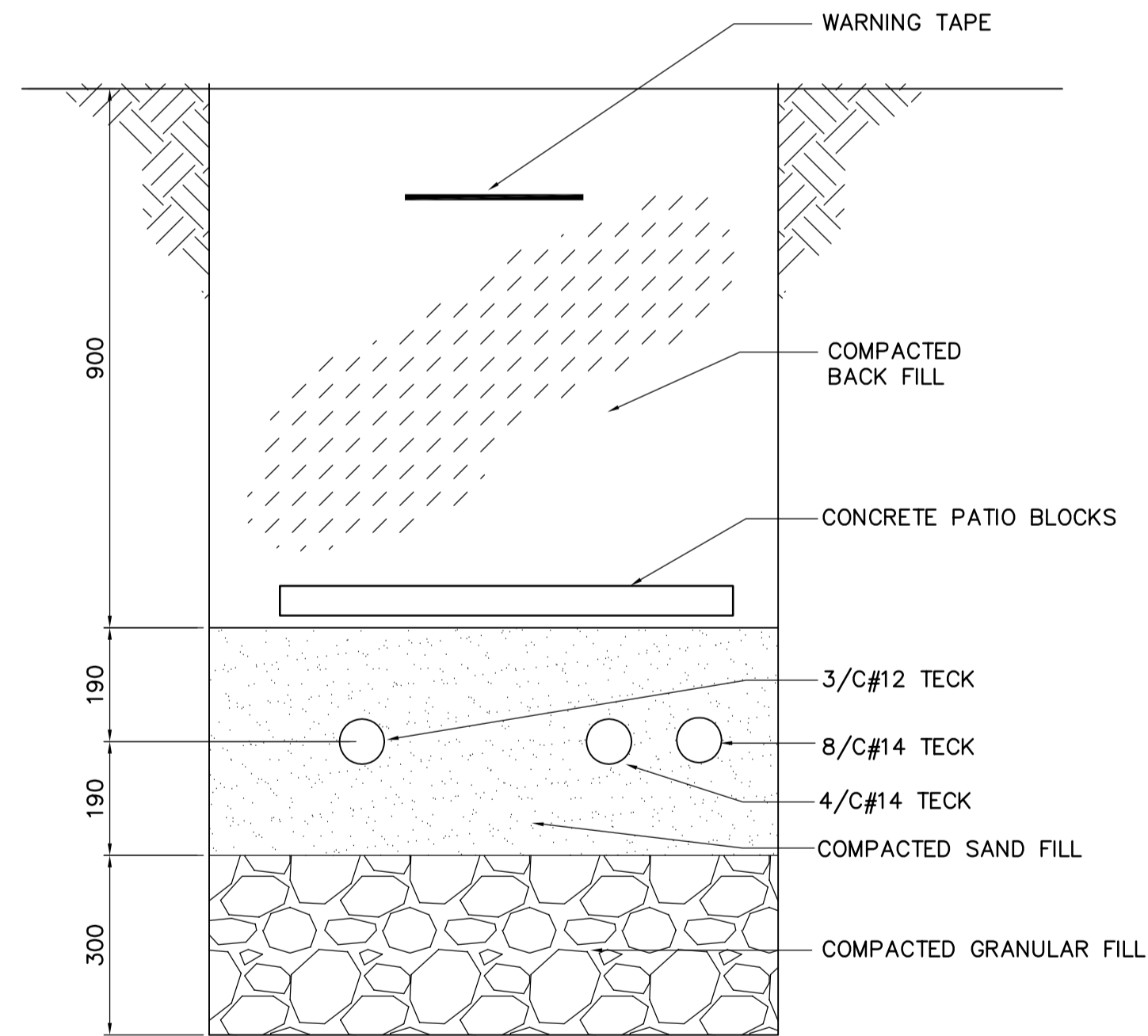
1. GROUND RODS SHALL BE INSTALLED OUTSIDE THE EXTENTS OF THE EXCAVATION SHORING.



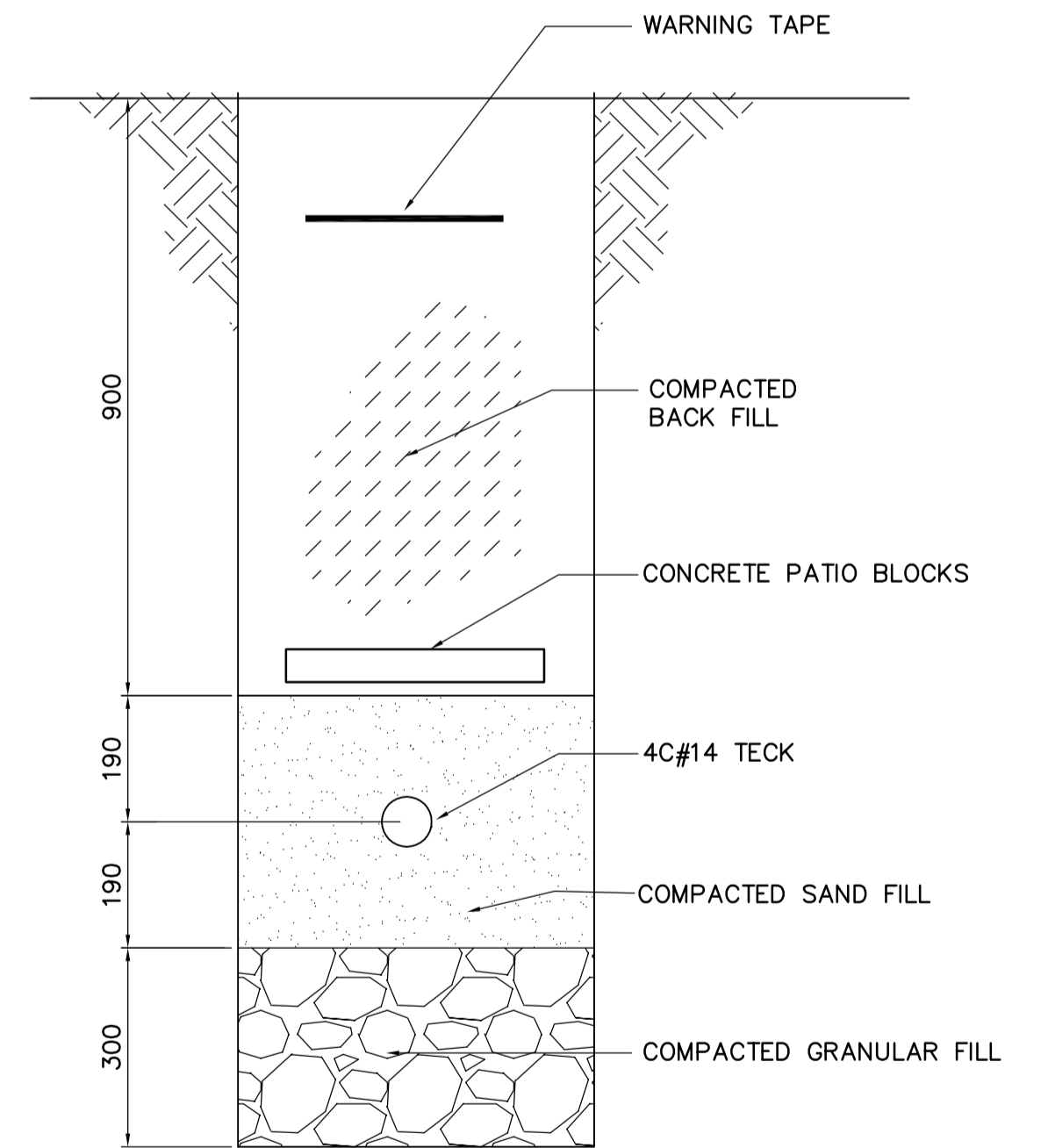
1 TRENCH SECTION
WY-E0110 SCALE: 1:10



2 TRENCH SECTION
WY-E0110 SCALE: 1:10



3 TRENCH SECTION
WY-E0110 SCALE: 1:10



4 TRENCH SECTION
WY-E0110 SCALE: 1:10

<p>APEGM Certificate of Authorization Earth Tech Canada Inc. No. 730 Expiry: April 30, 2007</p>	B.M. ELEV.	<p>Frederickson Cooper ARCHITECTS</p>	<p>EarthTech A Tyco International Ltd. Company</p>	ENGINEER'S SEAL	<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</p>	CITY FILE NUMBER
	DESIGNED BY: BLM			CHECKED BY: GGP		ORIGINAL SIGNED BY: B.L. MOORE
	DRAWN BY: ERC	APPROVED BY: AHL	RELEASED FOR CONSTRUCTION BY: R.SOROKOWSKI	CONSULTANT DRAWING NO. WY-E0450		CITY DRAWING NUMBER: 1-0601Y-A-E0450-001-000
	SCALE: AS NOTED	DATE: 2006/02/06	DATE: 2006/05/03	WATER TREATMENT PLANT YARD PIPING AND VALVE CHAMBERS SURGE TOWER CONSTRUCTION		ELECTRICAL LIGHTNING PROTECTION ROOF PLAN, DETAILS AND SECTIONS
00 ISSUED FOR TENDER	06/05/03 ERC					
NO. REVISIONS	DATE BY	DATE	DATE			