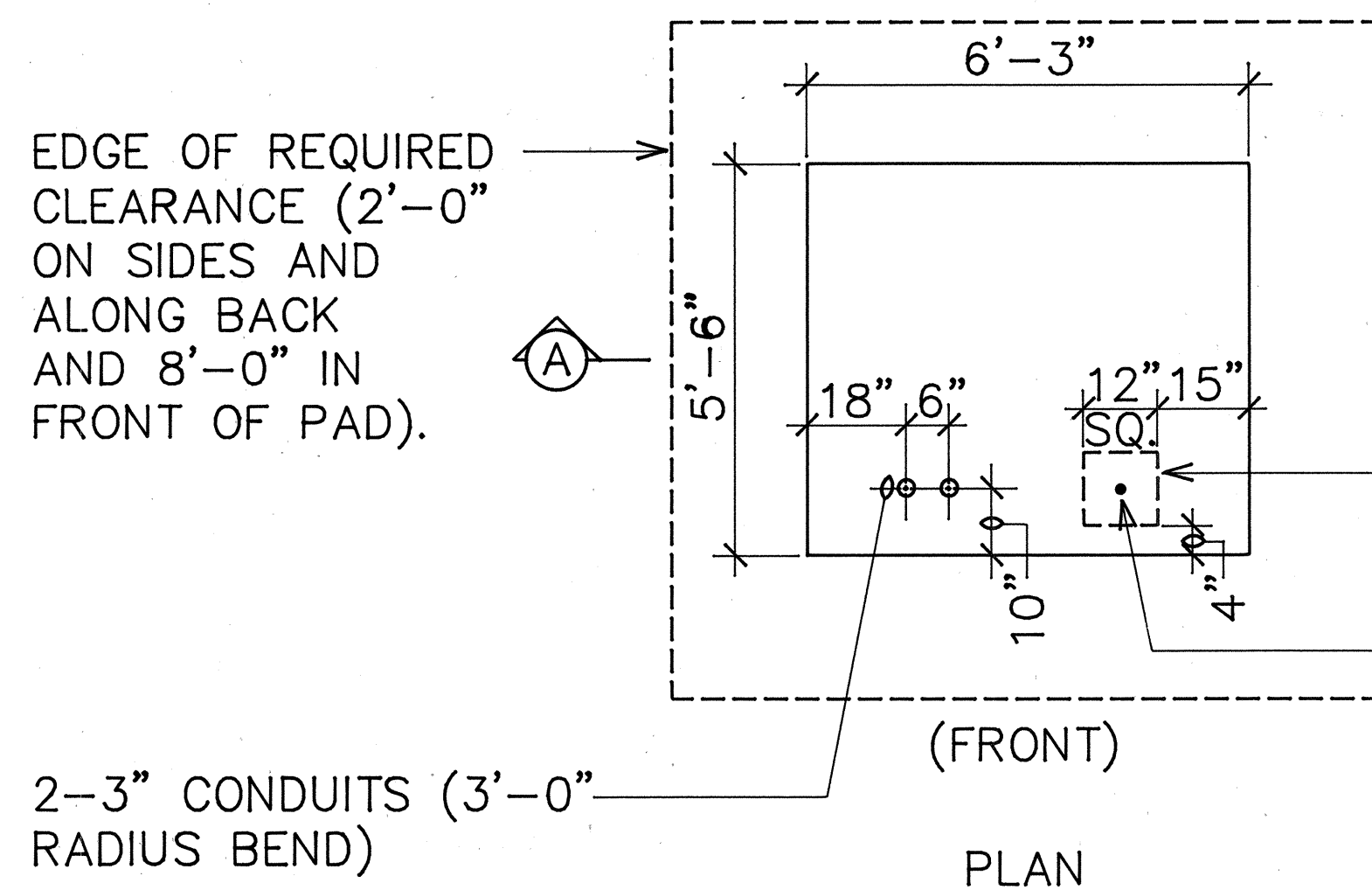


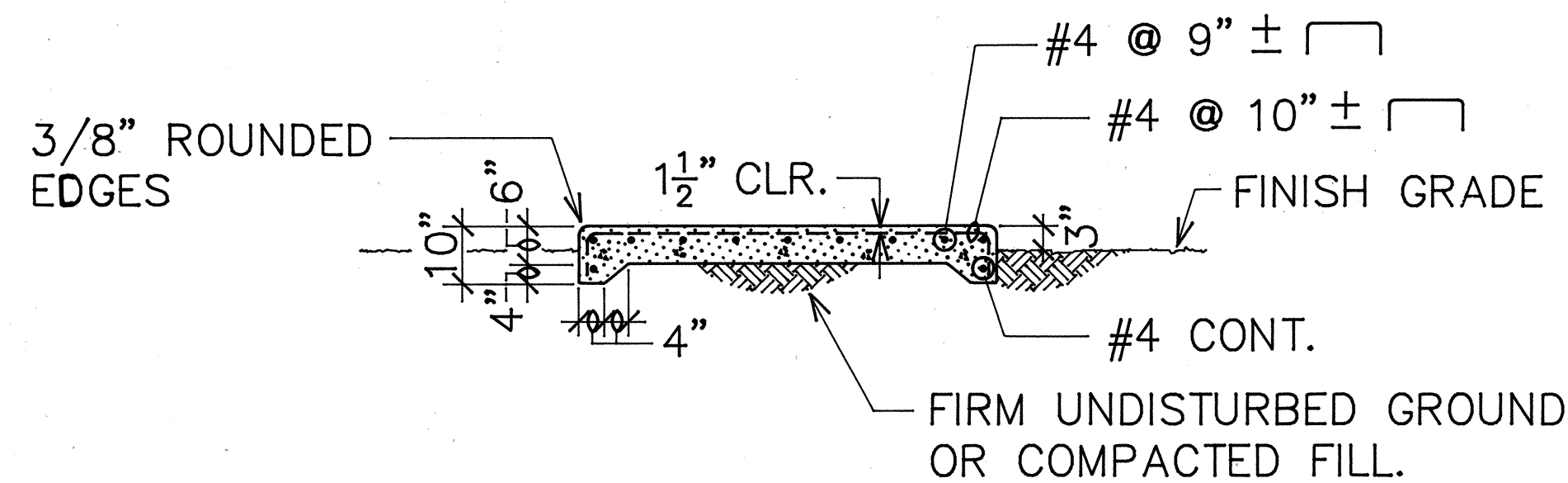
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61D-01-85	1988	24	29



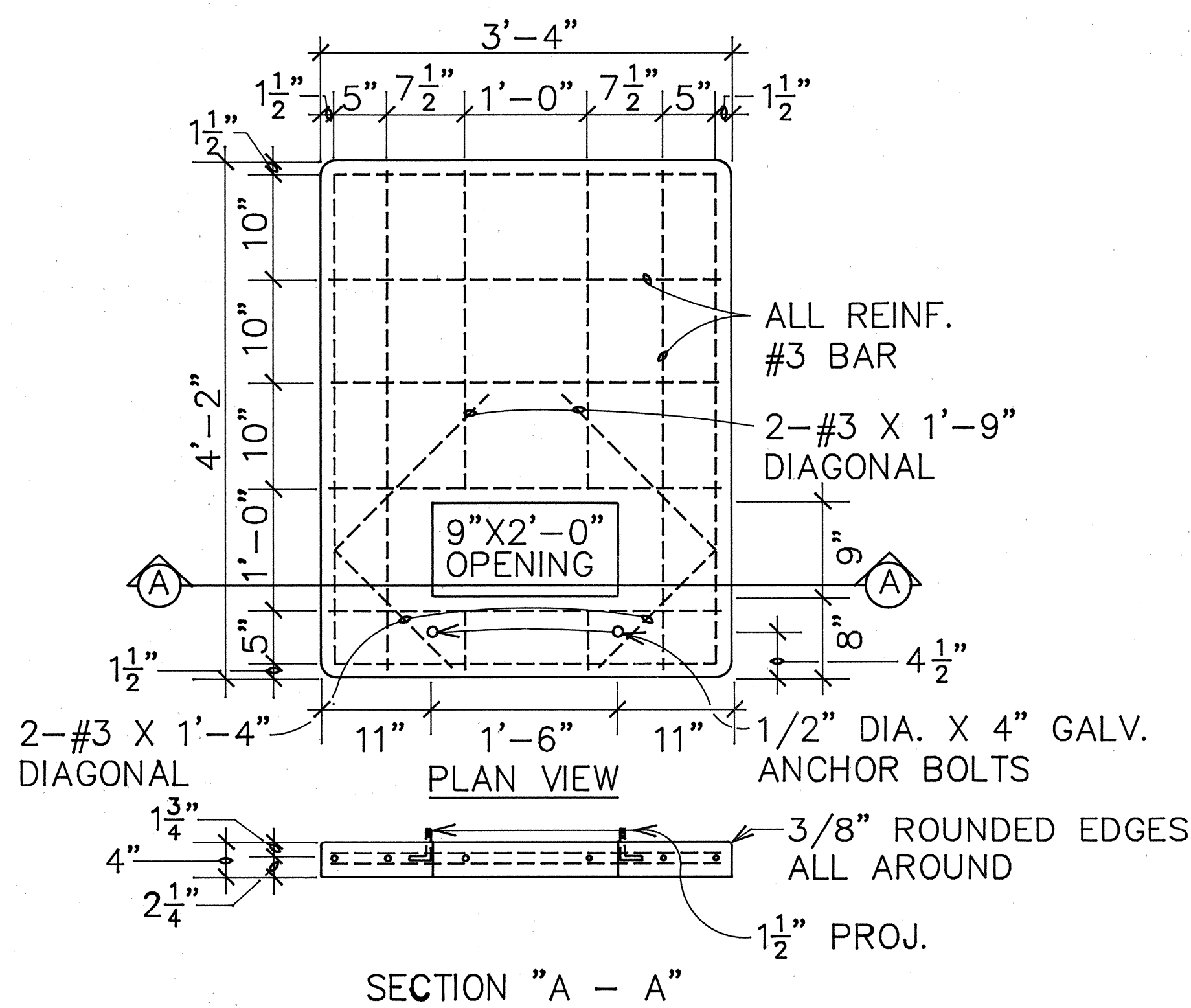
IF PAVED AREA, RECONSTRUCT PAVEMENT, SAWCUT EXST. PAVED AREAS PRIOR TO EXCAVATION.

CONTRACTOR TO TERMINATE SECONDARY DUCTS IN THIS AREA.

5/8" DIA. X 8'-0" GROUND ROD FURNISHED BY HECO AND INSTALLED BY CONTRACTOR. IF THE GROUND RESISTANCE IS MORE THAN 25 OHMS, INSTALL AN ADDITIONAL GROUND ROD OR GROUND WIRE.



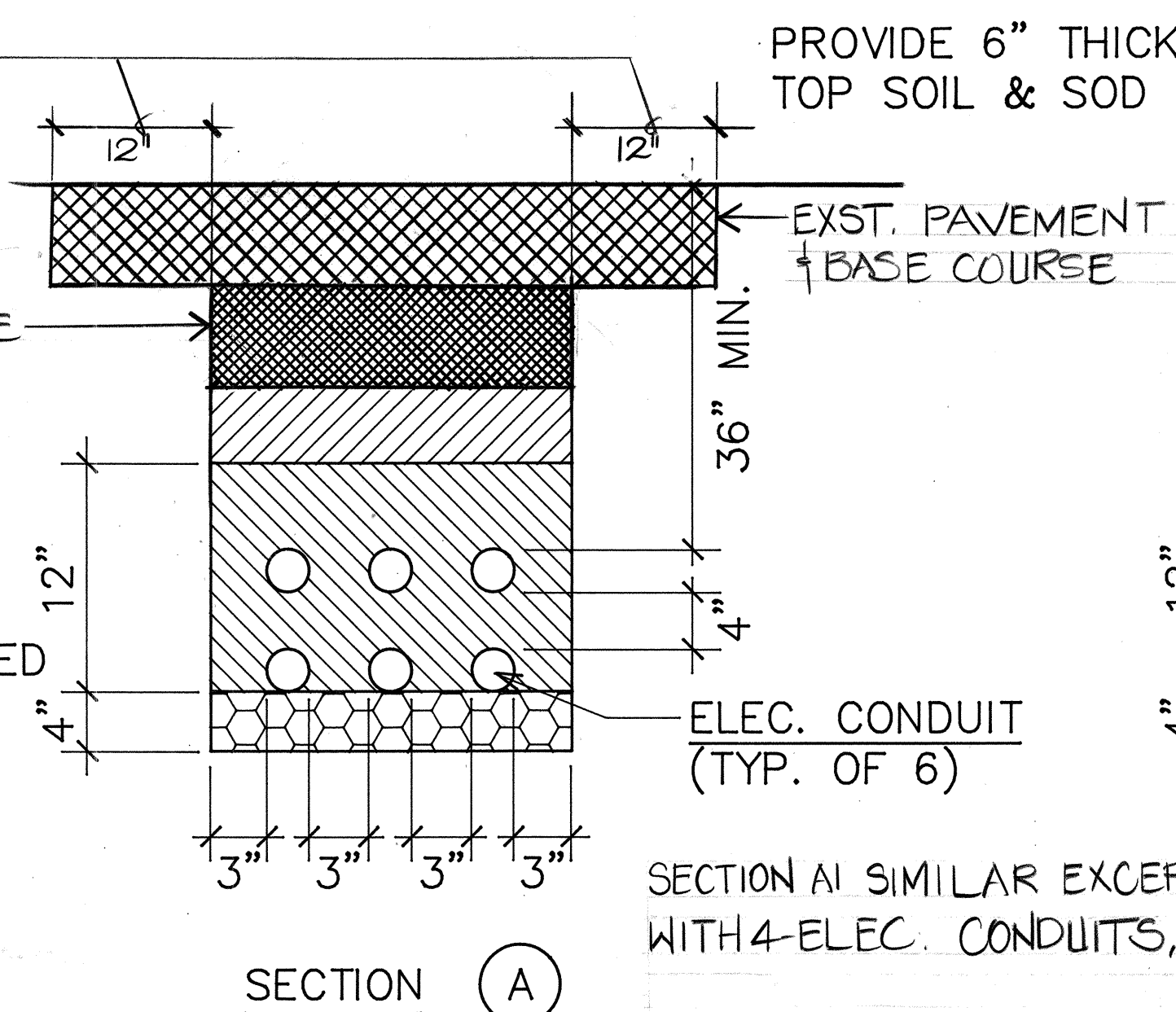
(A) 21E CONCRETE TRANSFORMER PAD DETAIL NOT TO SCALE



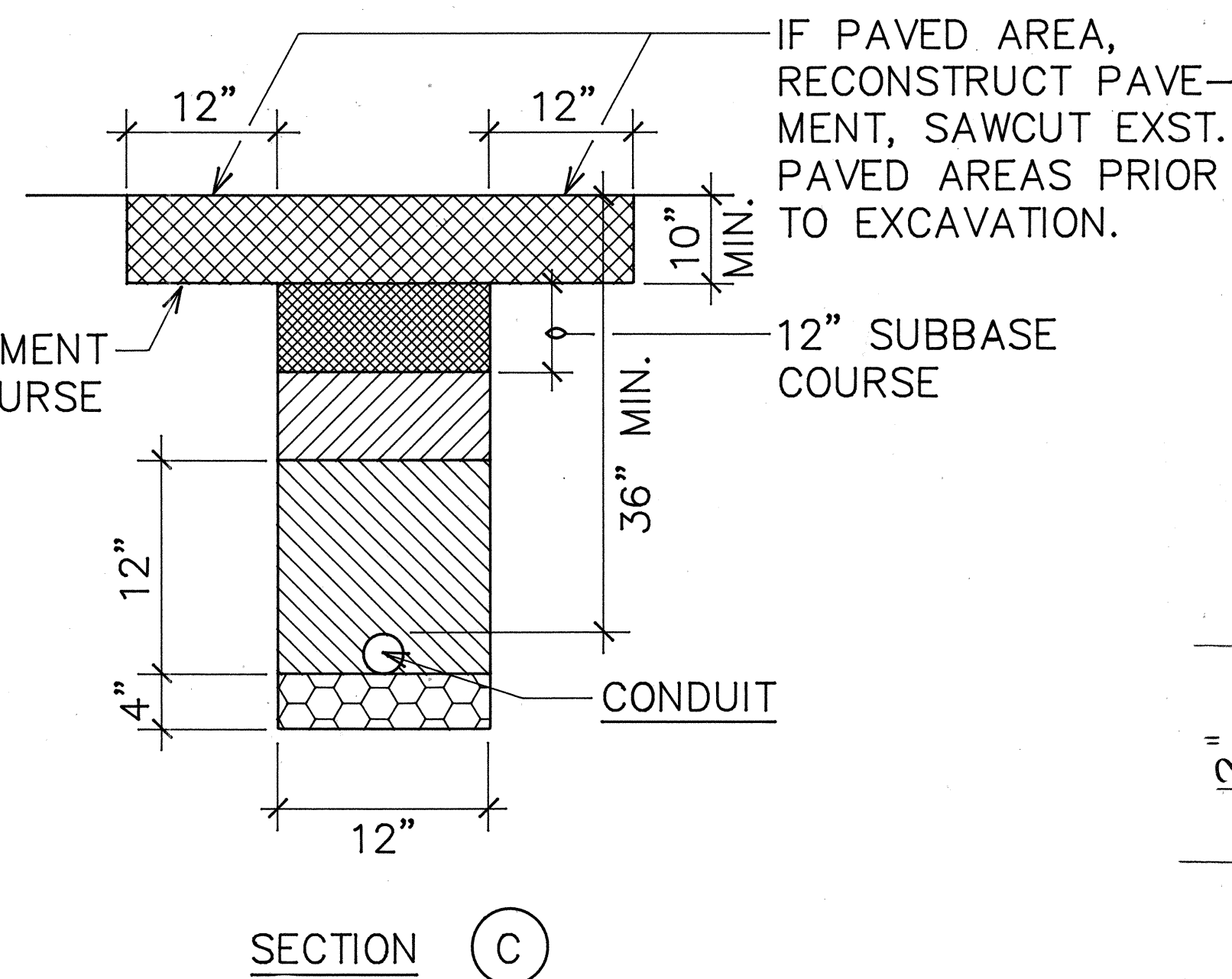
(B) 21E CONCRETE TRANSFORMER PAD DETAIL NOT TO SCALE

NOTES:

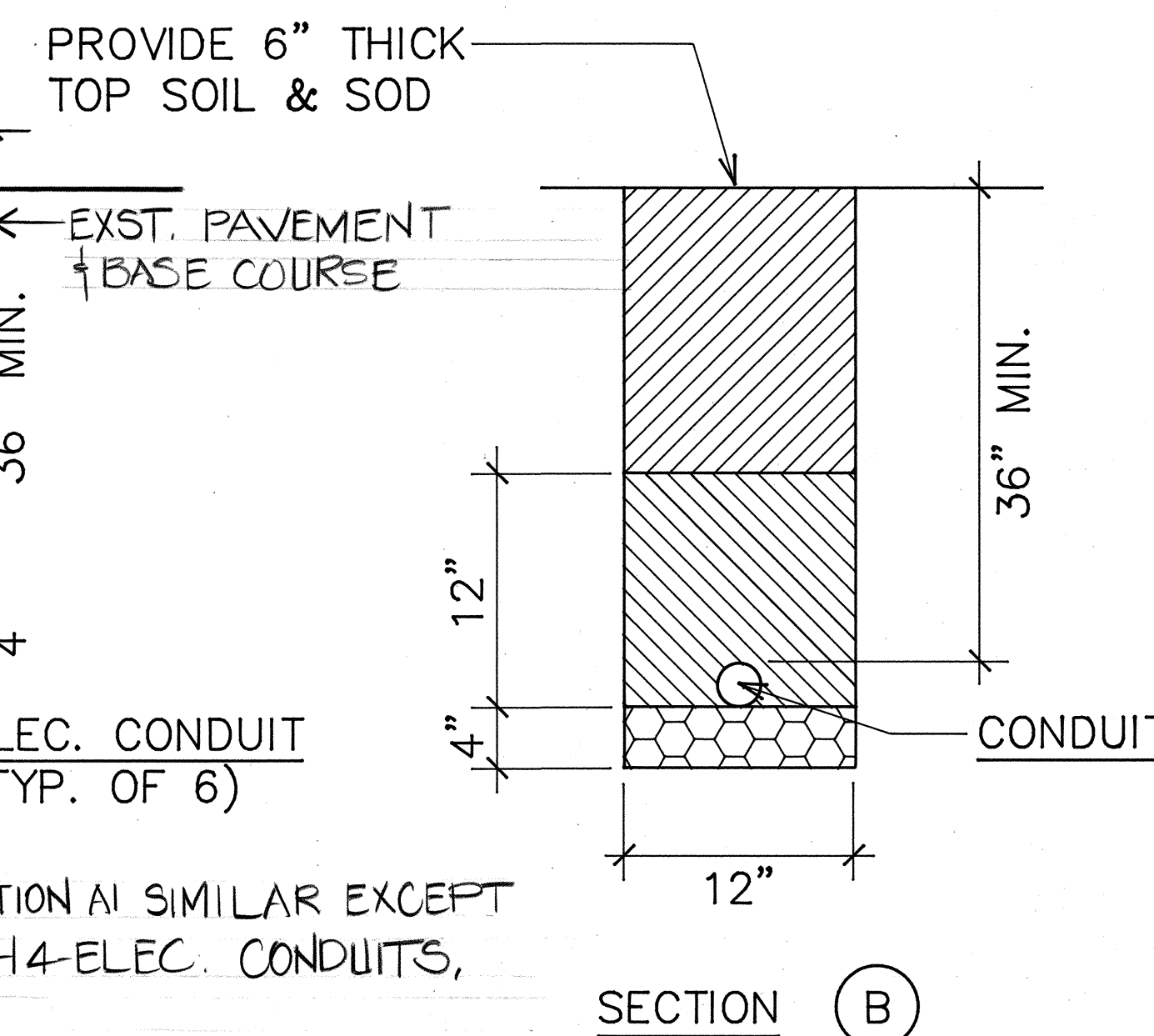
1. COMPRESSIVE STRENGTH OF CONCRETE: 3000 PSI IN 28 DAYS.
2. REINFORCING BAR SHALL BE CLEAN & NEW.
3. CURE CONCRETE BY APPROVED METHOD.
4. TOP OF CONCRETE PAD TO BE SMOOTH, TRUE & LEVEL, FREE FROM DEFECTS.
5. CONTRACTOR HAS OPTION OF FURNISHING CAST-IN-PLACE OR PRECAST.



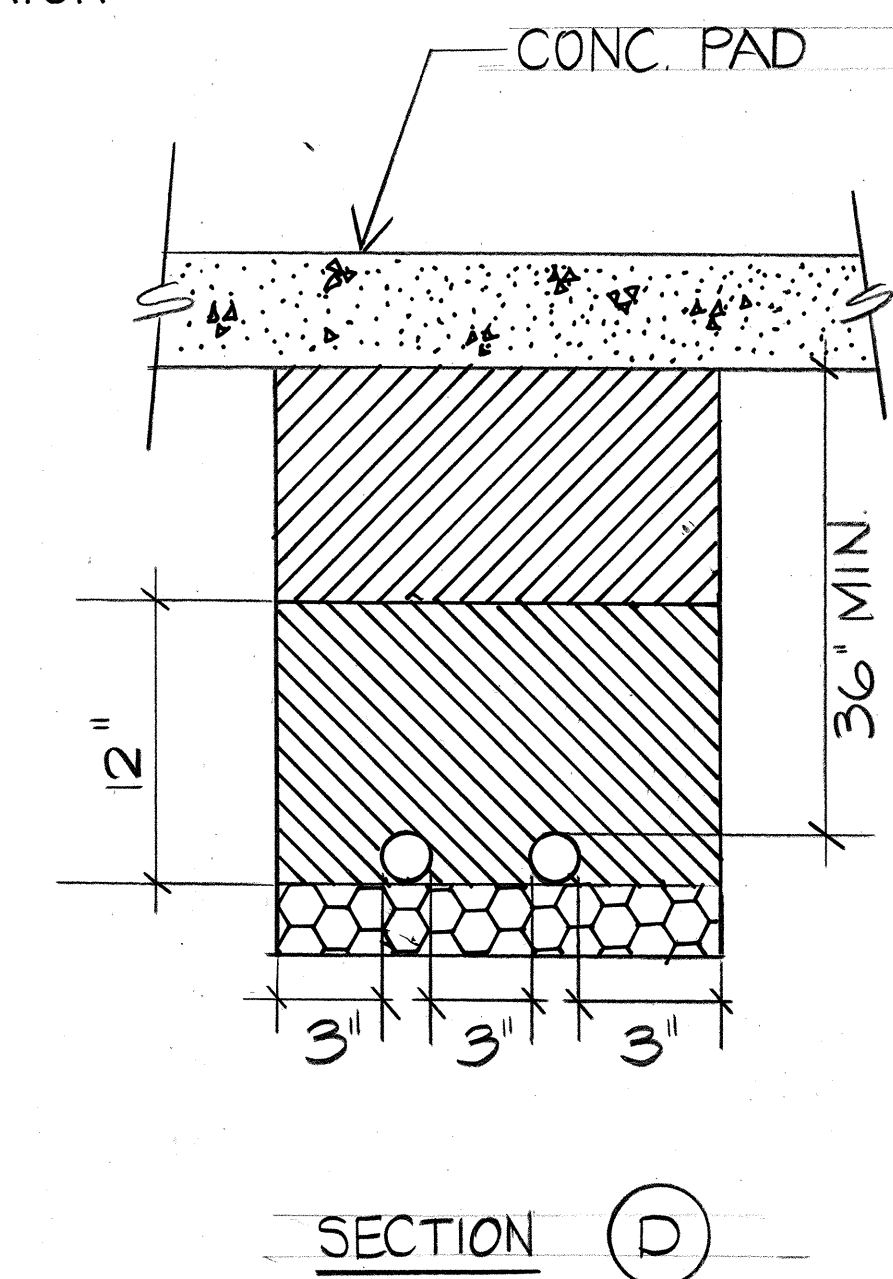
SECTION A1 SIMILAR EXCEPT WITH 4-ELEC. CONDUITS,



SECTION C1 SIMILAR EXCEPT 2 CONDUIT.

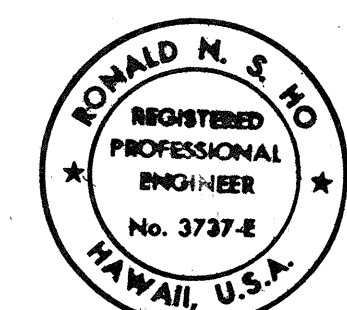


SECTION B2 SIMILAR EXCEPT 2 CONDUIT.



TRENCH BACKFILL NOTES

- MATERIAL "A"
1. SAND EQUIVALENT GREATER THAN OR EQUAL TO 20.
 2. 8" MAXIMUM LIFT.
 3. 95% COMPACTION.
- MATERIAL "A"
1. SAND EQUIVALENT GREATER THAN OR EQUAL TO 2.
 2. 8" MAXIMUM LIFT.
 3. 95% COMPACTION.
- BED COURSE MATERIALS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

[Signature]

12/30/87

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
MISCELLANEOUS DETAILS	
PALI HIGHWAY TUNNELS HIGHWAY LIGHTING IMPROVEMENTS PROJECT NO. 61D-01-85	
SCALE: NONE	DATE: JUL., 1987
SHEET NO. 21E OF 29 SHEETS	