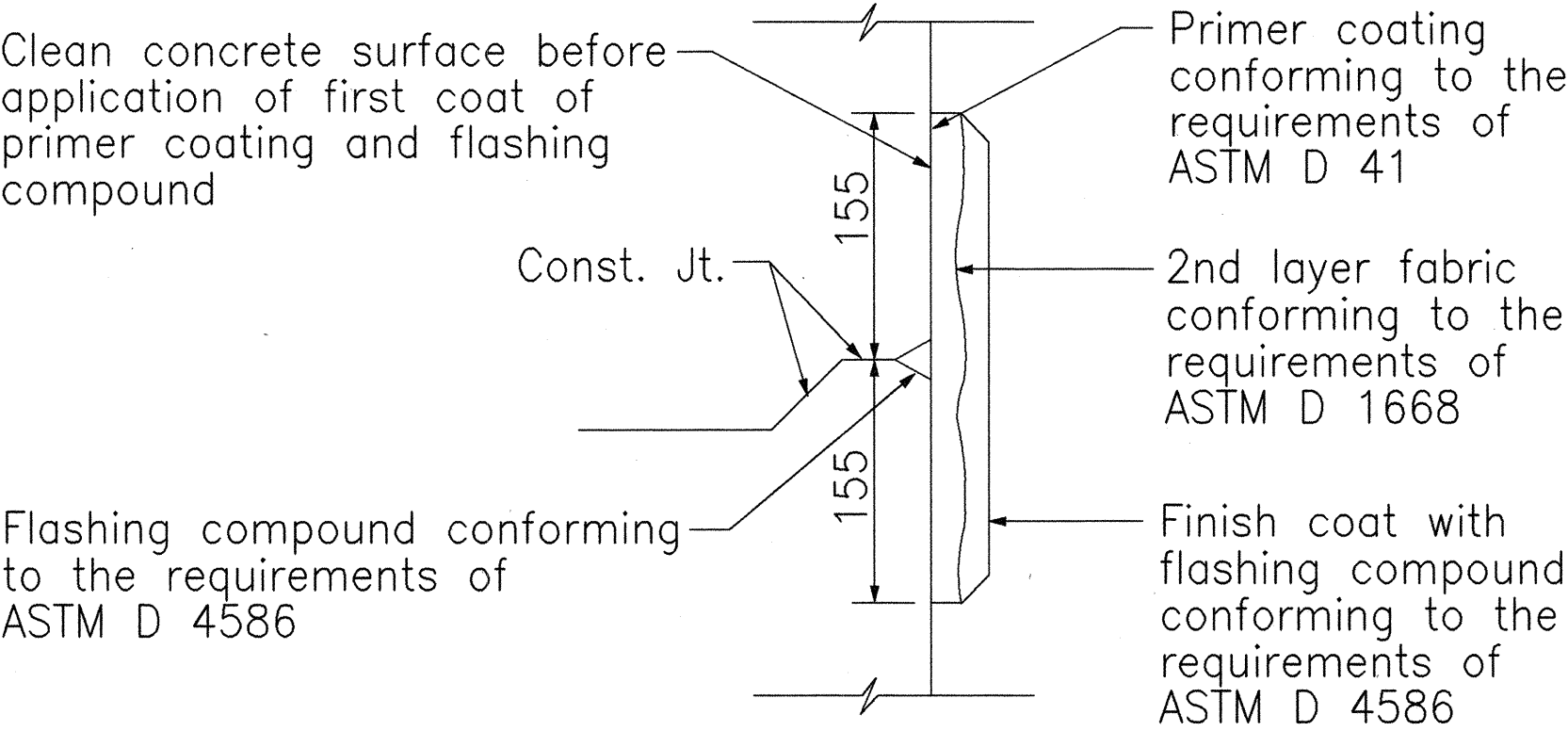


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-036-1(12)      | 2000        | 22        | 30           |

GENERAL NOTES

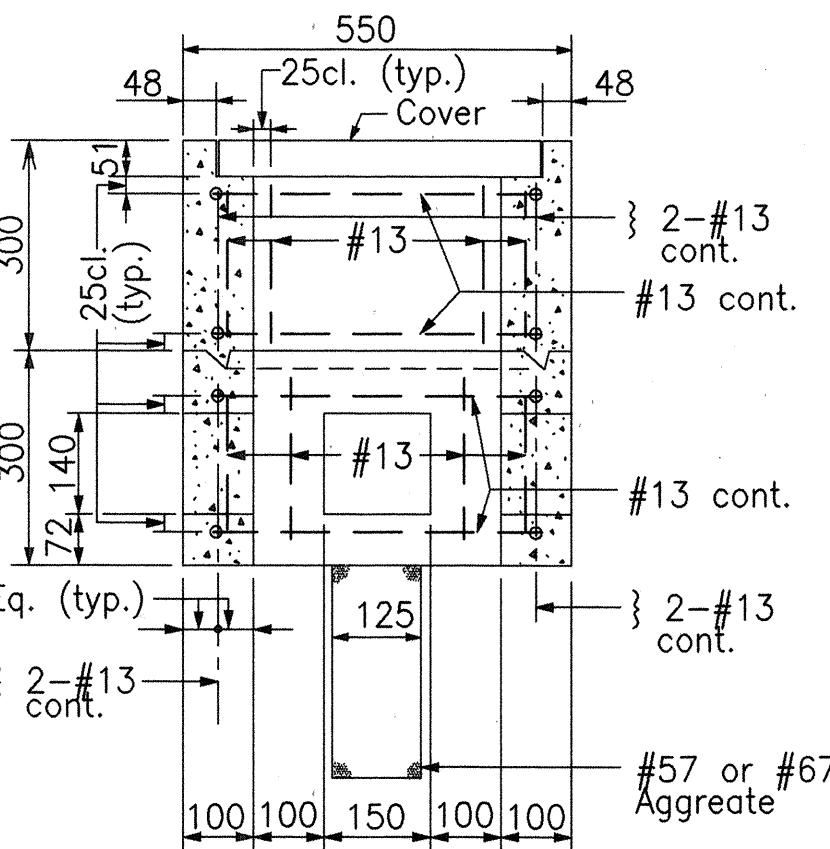
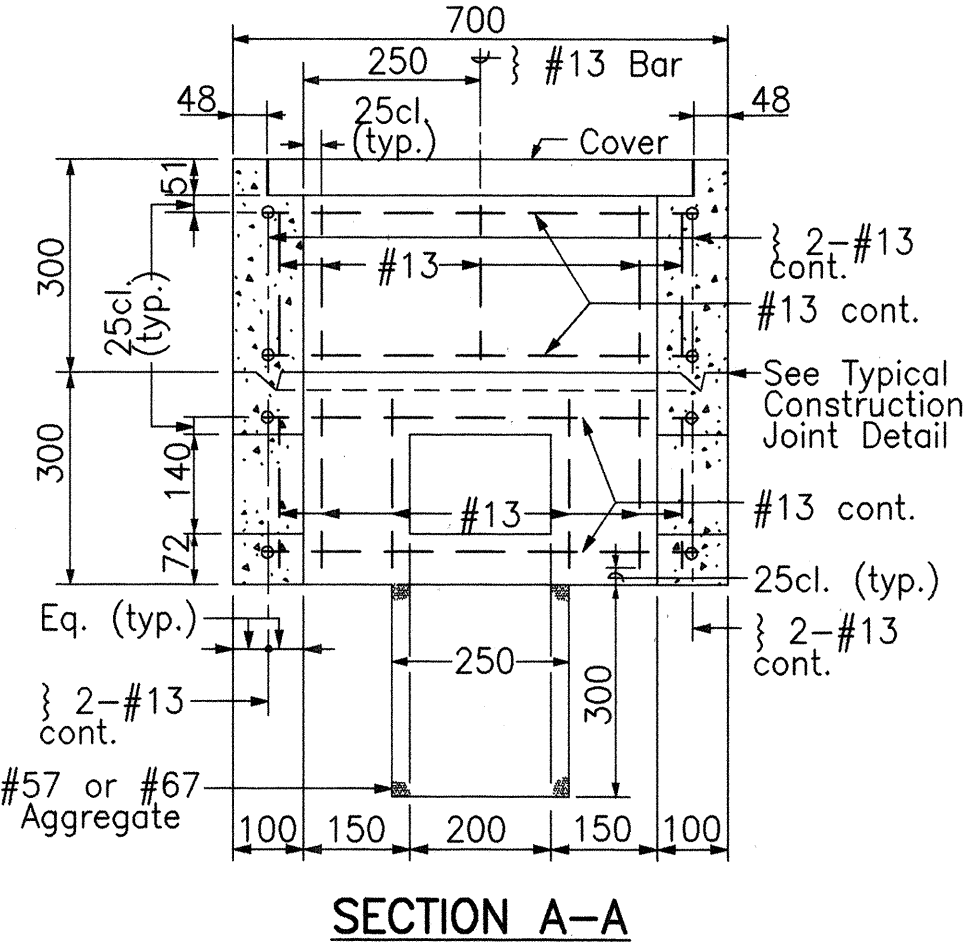
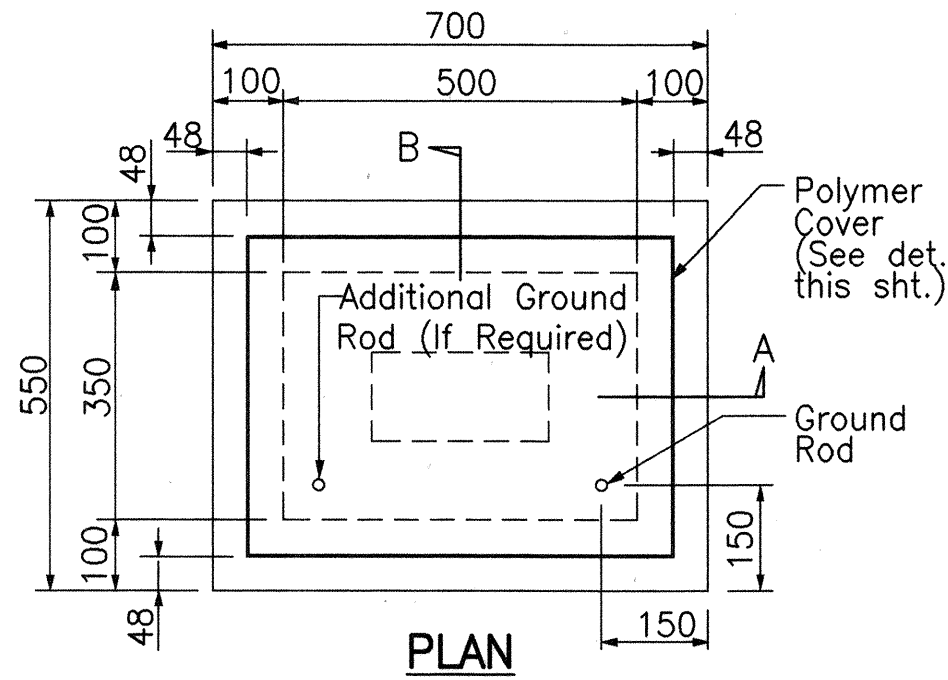
- Provide a minimum of one 16ø x 2.5m Copperweld Ground Rod in each pullbox. When directed by the Traffic Signal Inspector/Engineer, install additional Ground Rods. Cost of Ground Rods shall be incidental to the pullboxes.
- All pre-cast concrete pullboxes shall be manufactured in two pieces.
- The pullbox with cover shall be capable of supporting an MS 18 Loading.
- The maximum weight of the pullbox cover shall not exceed 27 kilograms.
- The openings for the conduits on all pullboxes shall be pre-cast concrete knockouts.
- After installing the conduits in the openings of the pullboxes, the Contractor shall fill the excess opening in the pre-cast knockouts with concrete mortar.
- Prior to installing the pullboxes, the Contractor shall level the bottom of the trench and achieve a minimum of 95% relative compaction of the bottom of the trench.
- All concrete shall be Class A (25MPa, min.)
- Rebars shall be Grade 300 and all lapped splices shall be 360mm minimum.
- The #57 or #67 size aggregate shall conform to latest version of AASHTO M43 (ASTM D 448).
- Type "C" Pullbox shall be installed in a location protected from vehicular traffic (i.e. raised sidewalk, behind A.C. curbs, traffic signal standard or pipe guards).



TYPICAL FLASHING COMPOUND  
WATERPROOFING DETAILS

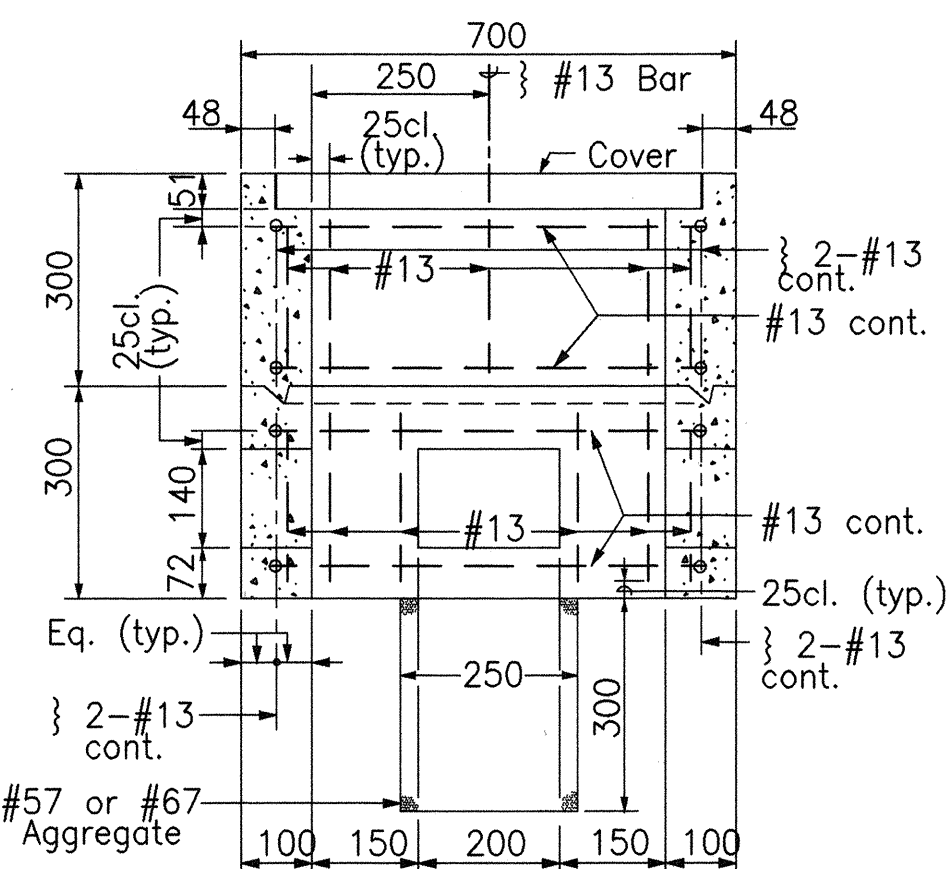
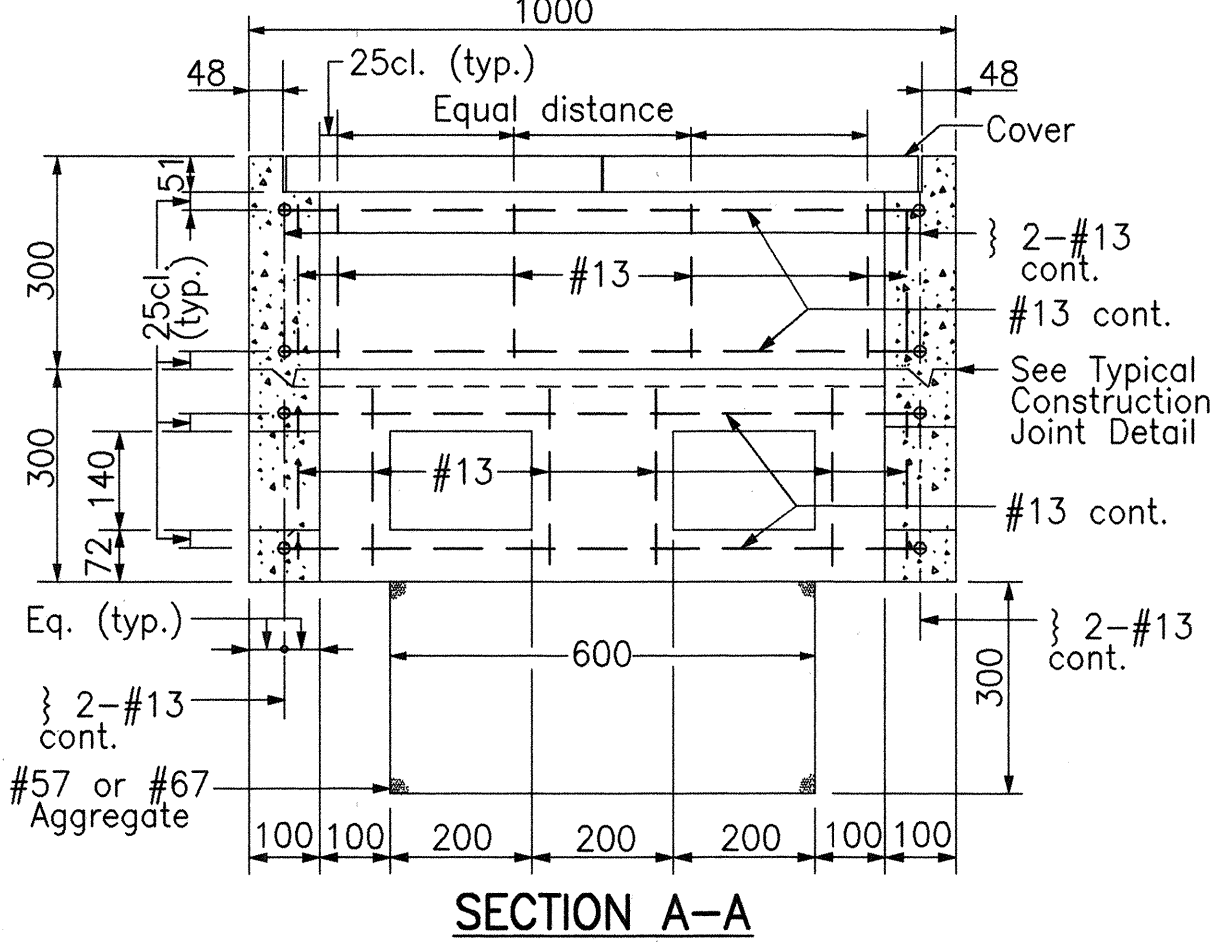
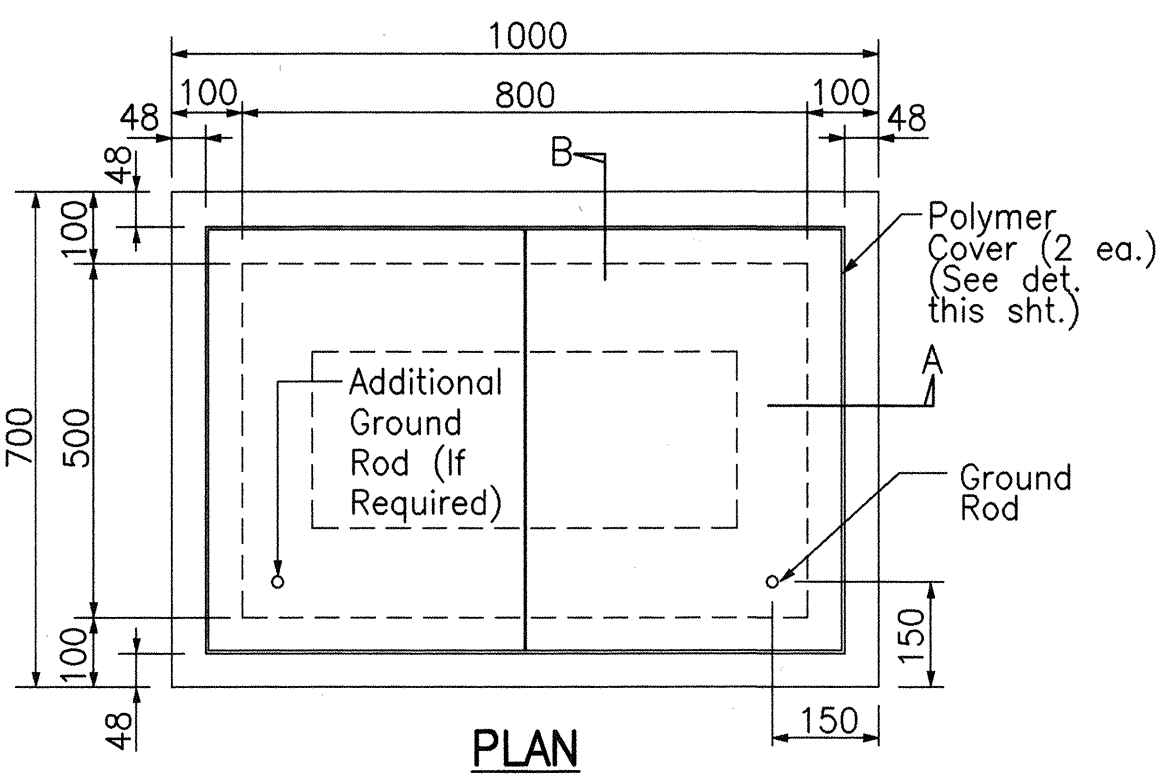
Not to Scale

ALL DIMENSIONS ARE IN MILLIMETERS  
UNLESS OTHERWISE SHOWN



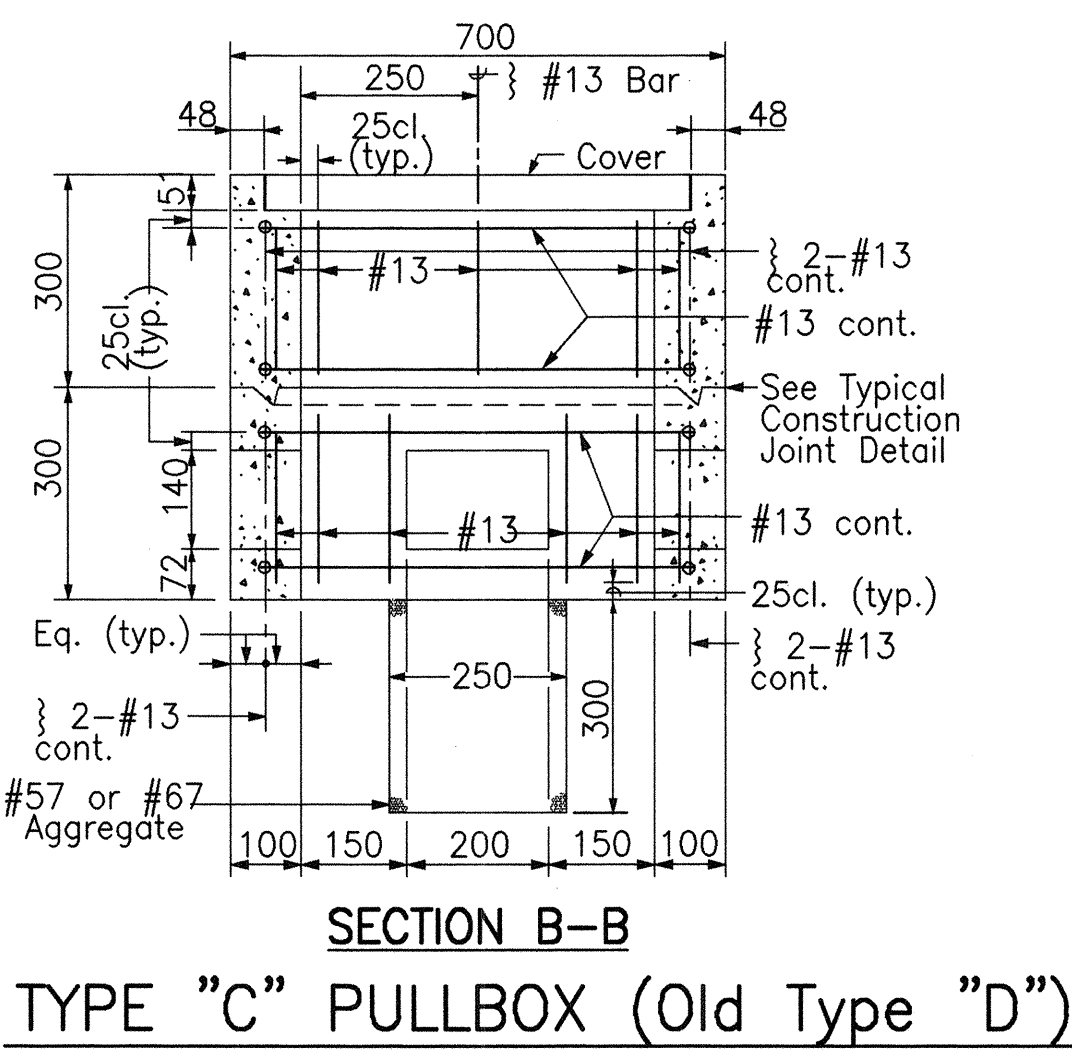
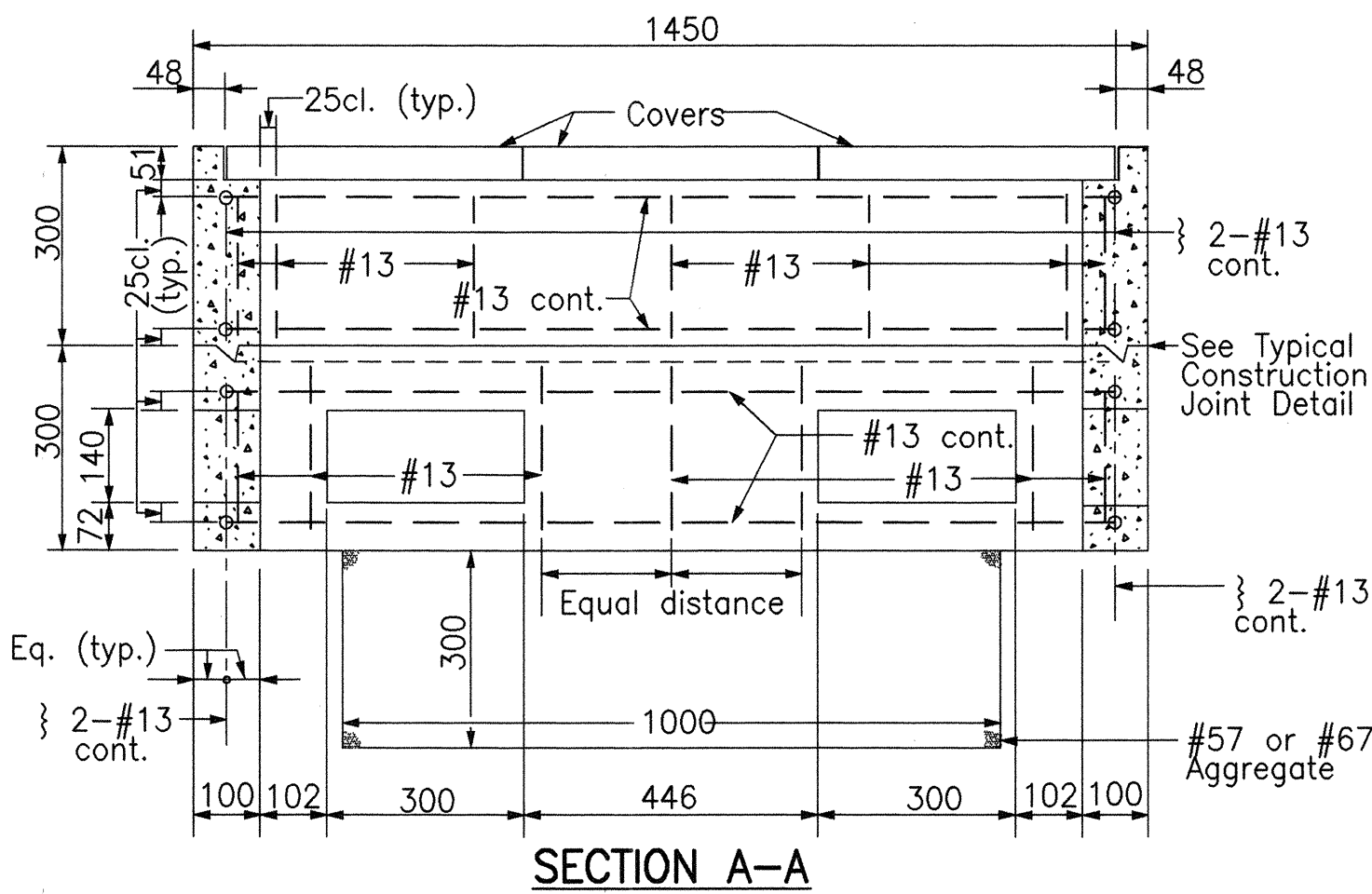
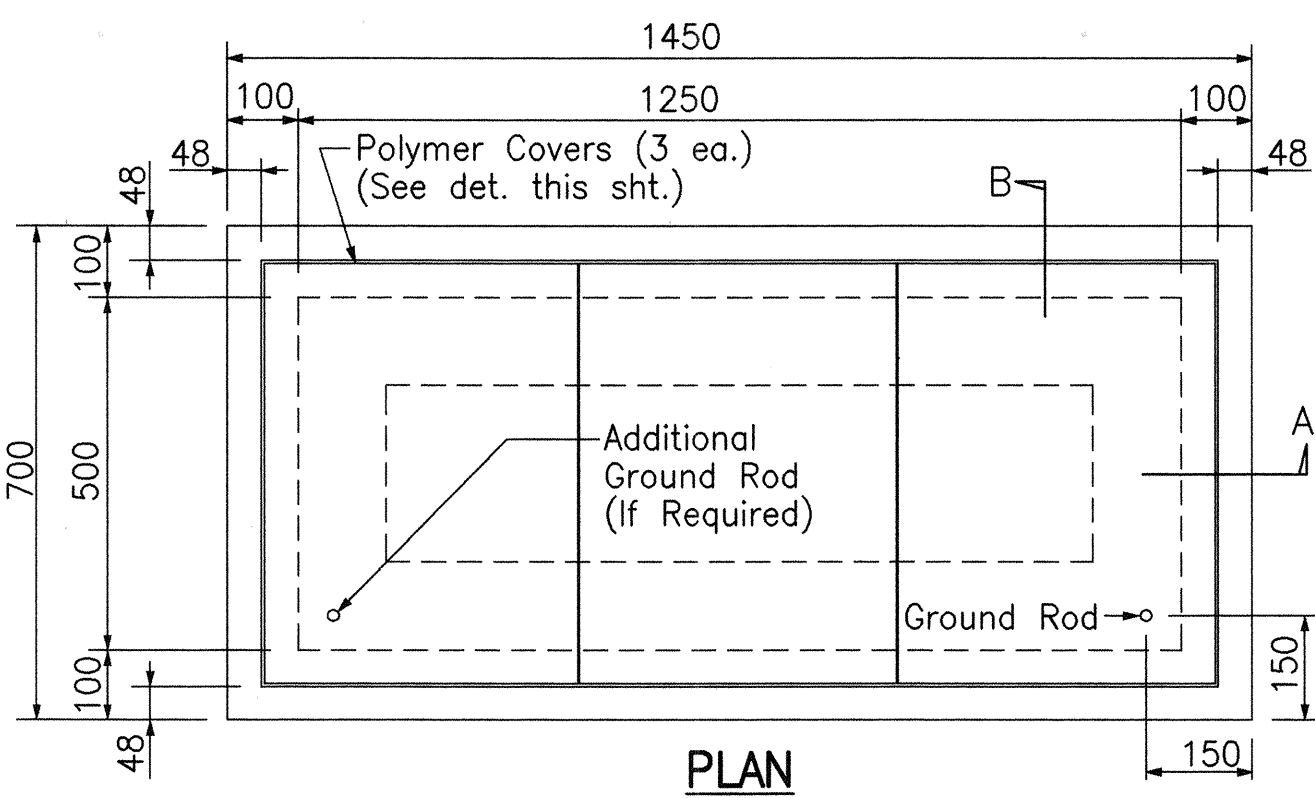
TYPE "A" PULLBOX  
(Old Type "B")

Scale: 1 : 100



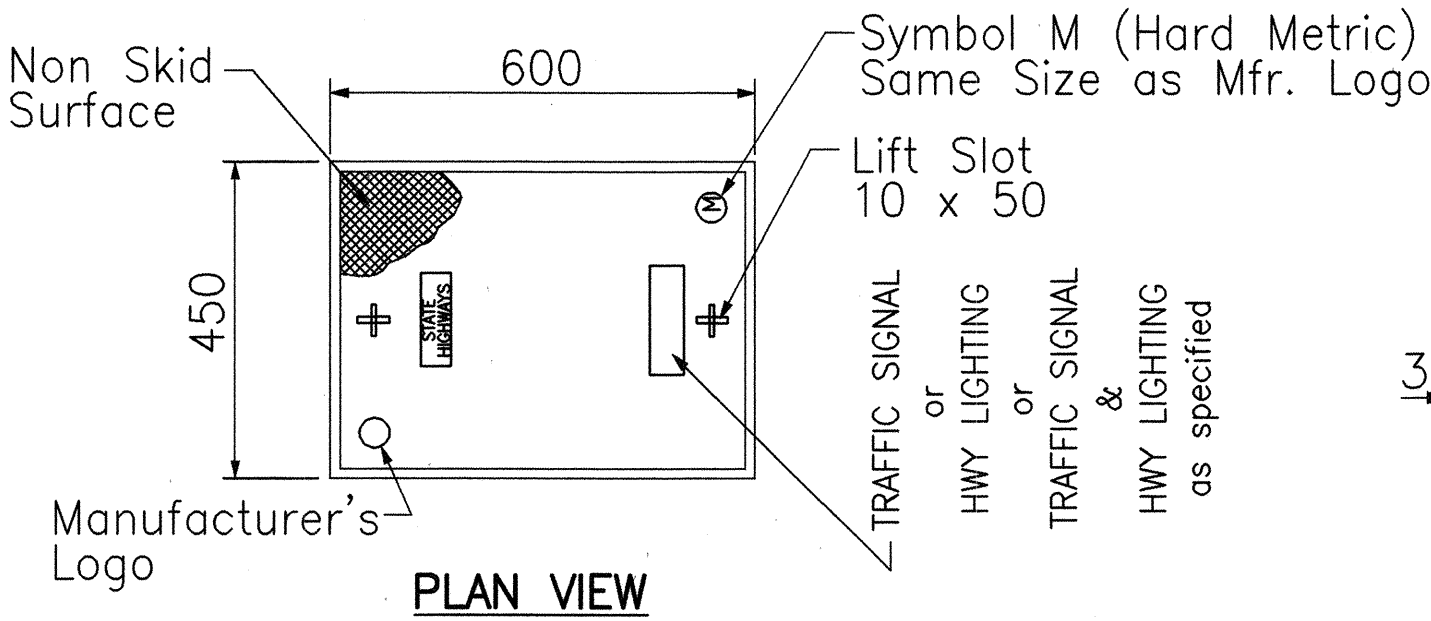
TYPE "B" PULLBOX (Old Type "C")

Scale: 1 : 100



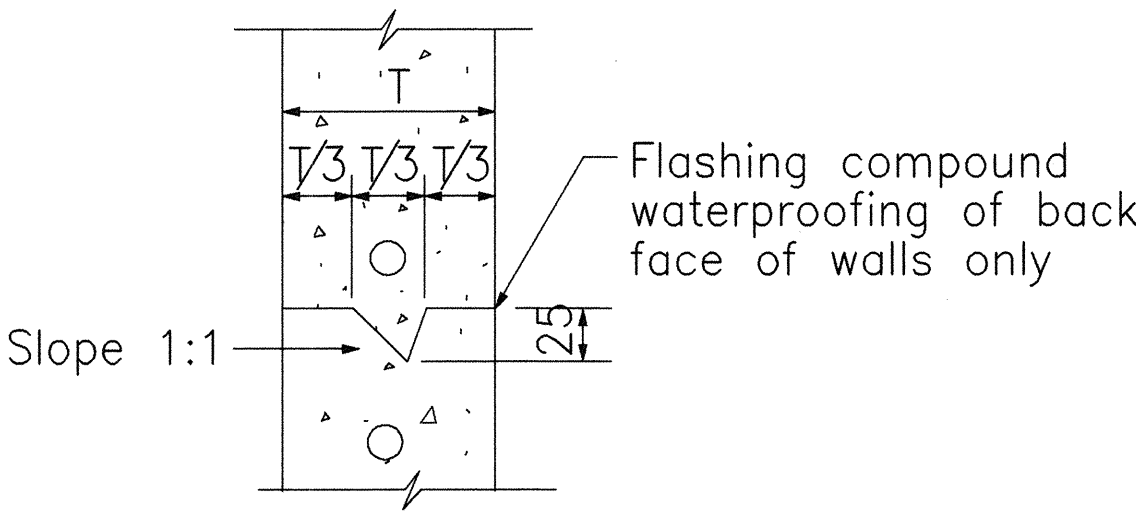
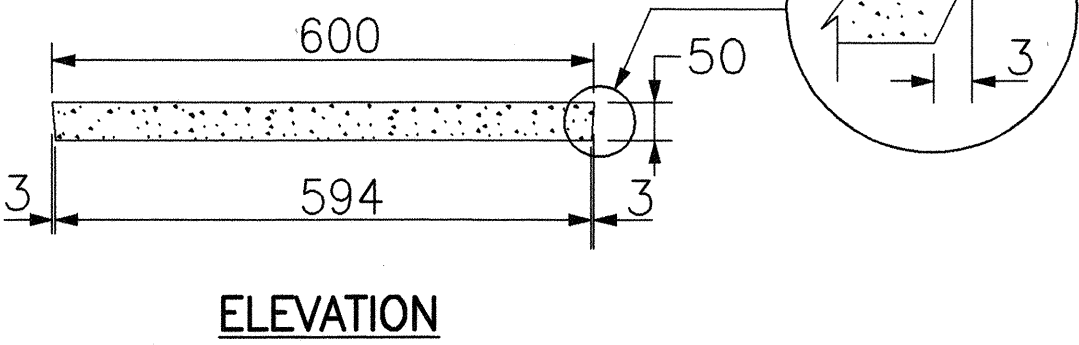
TYPE "C" PULLBOX (Old Type "D")

Scale: 1 : 100



POLYMER CONCRETE COVER

Not to Scale



TYPICAL CONSTRUCTION  
JOINT DETAIL

Not to Scale

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

TRAFFIC SIGNAL PULLBOX DETAILS

HANA HIGHWAY  
INTERSECTION IMPROVEMENTS  
AT HOBRON AVENUE  
FAP NO. STP-036-1(12)

SCALE: AS NOTED
DATE: MAR. 1999