

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	186	187

GENERAL NOTES

- Provide a minimum of one 16 dia. 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 w/ cover shall be capable of supporting an MS 18 Loading.
- The max. 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, Contractor shall fill the excess opening in the pre-cast knockouts with conc. 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 (21mPa, 3,000 PSI min.).
- Rebars shall be Grade 300 and all lapped splices shall be 360mm min.
- The #57 or #67 sized 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).

Clean concrete surface before application of first coat of primer coating and flashing compound

Primer coating conforming to the requirements of ASTM D 41

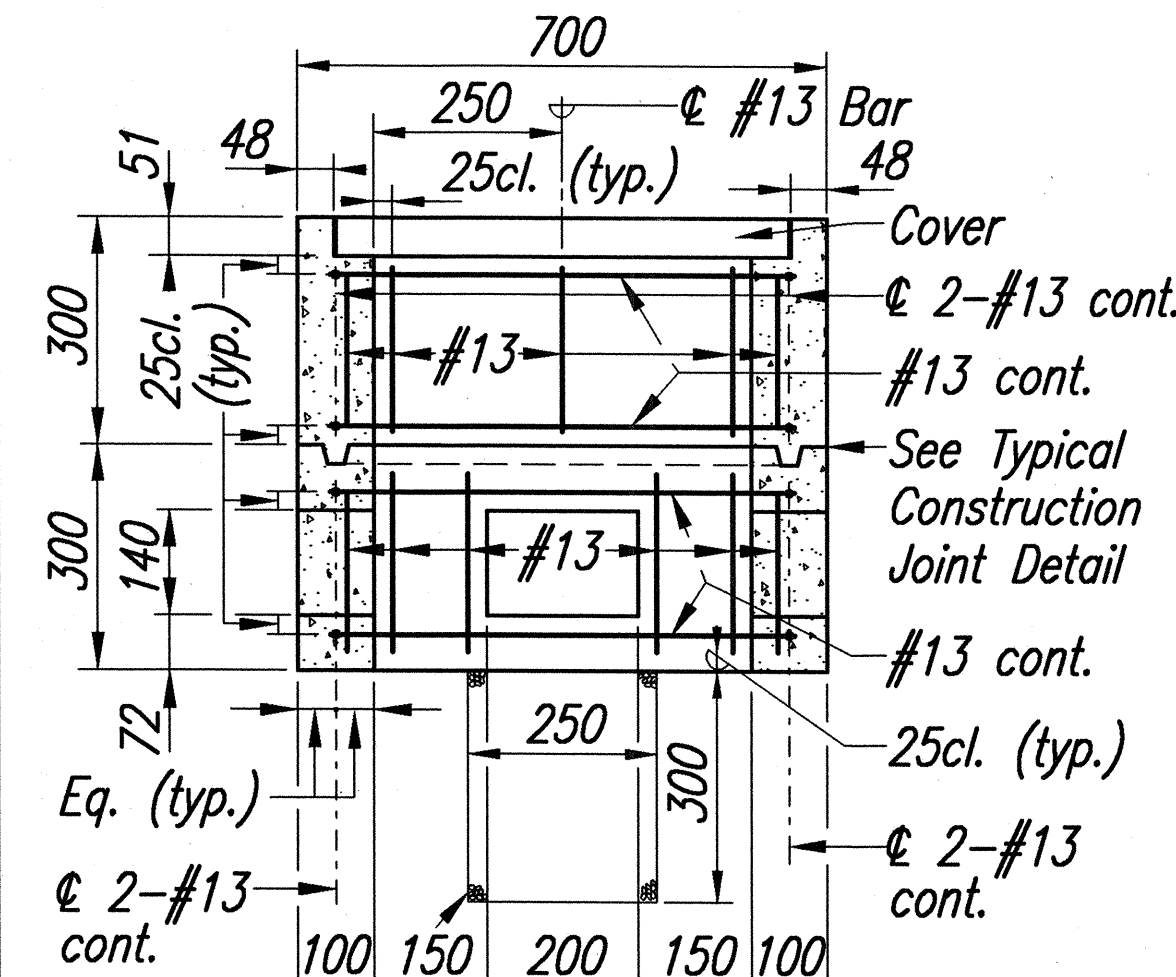
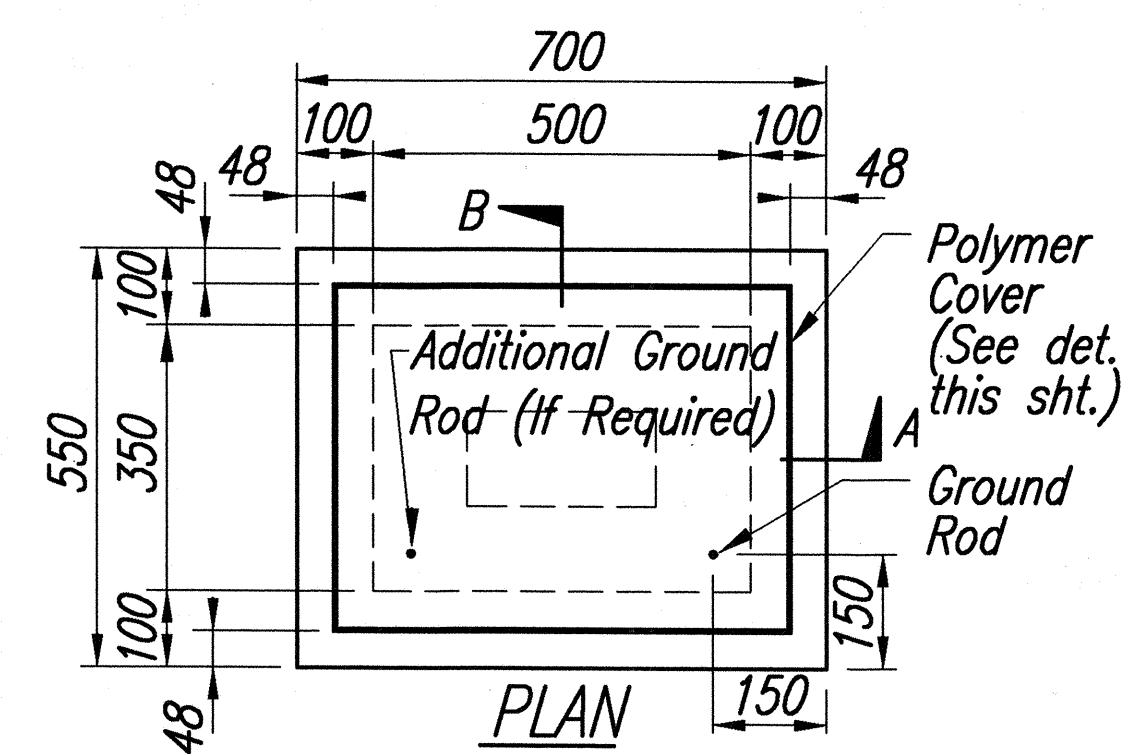
2nd layer fabric conforming to the requirements of ASTM D 1668

Flashing compound conforming to the requirements of ASTM D 4586

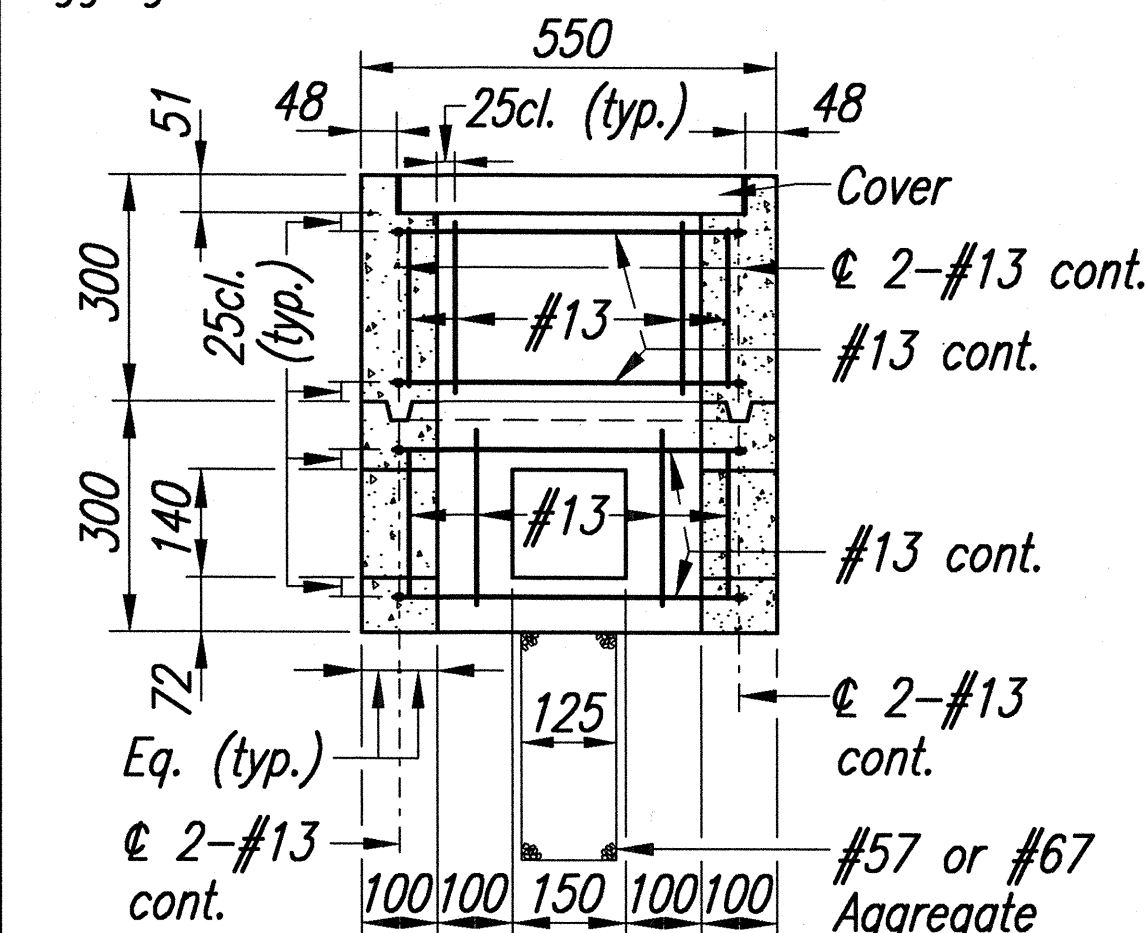
Finish coat with flashing compound conforming to the requirements of ASTM D 4586

TYPICAL FLASHING COMPOUND WATERPROOFING DETAILS

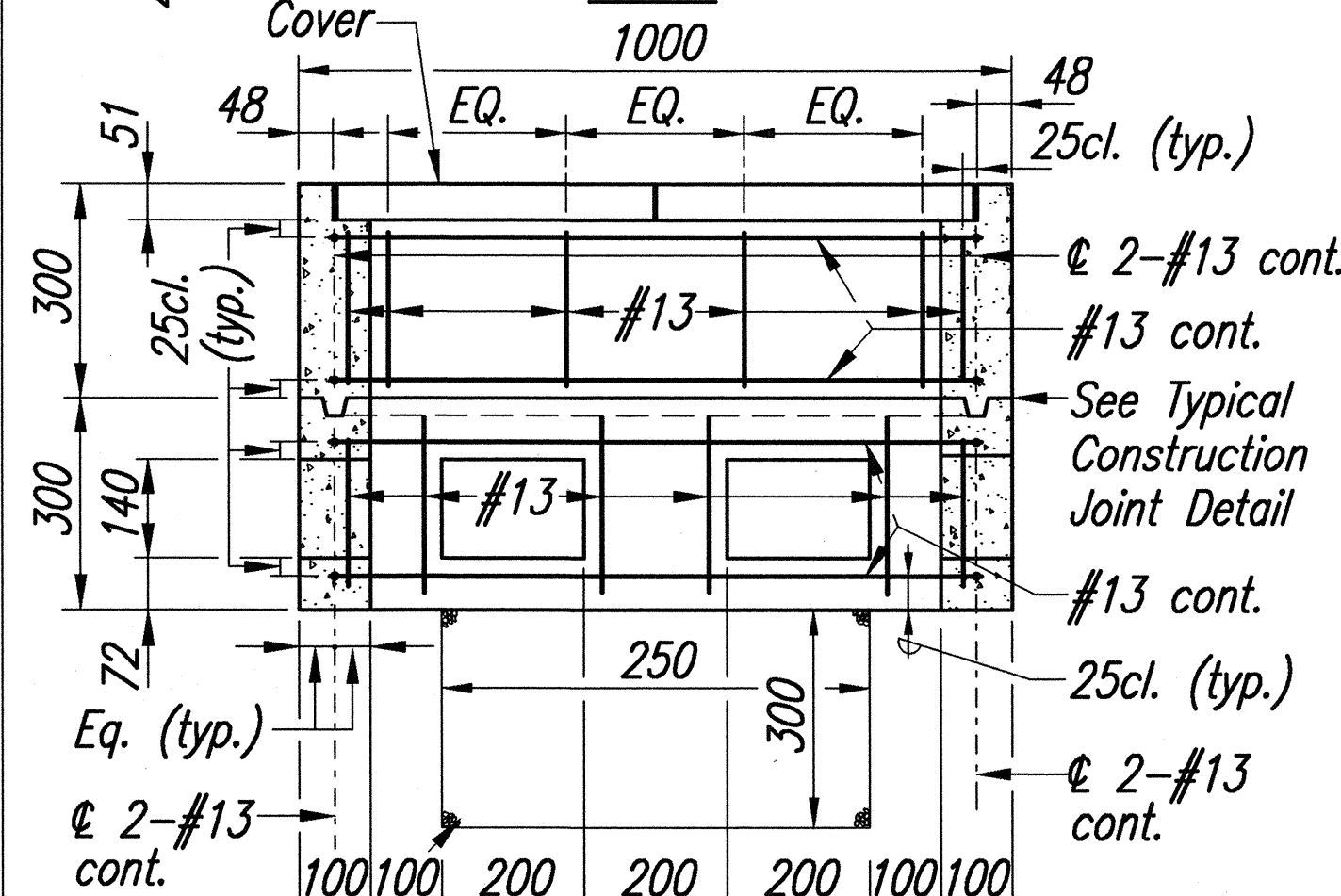
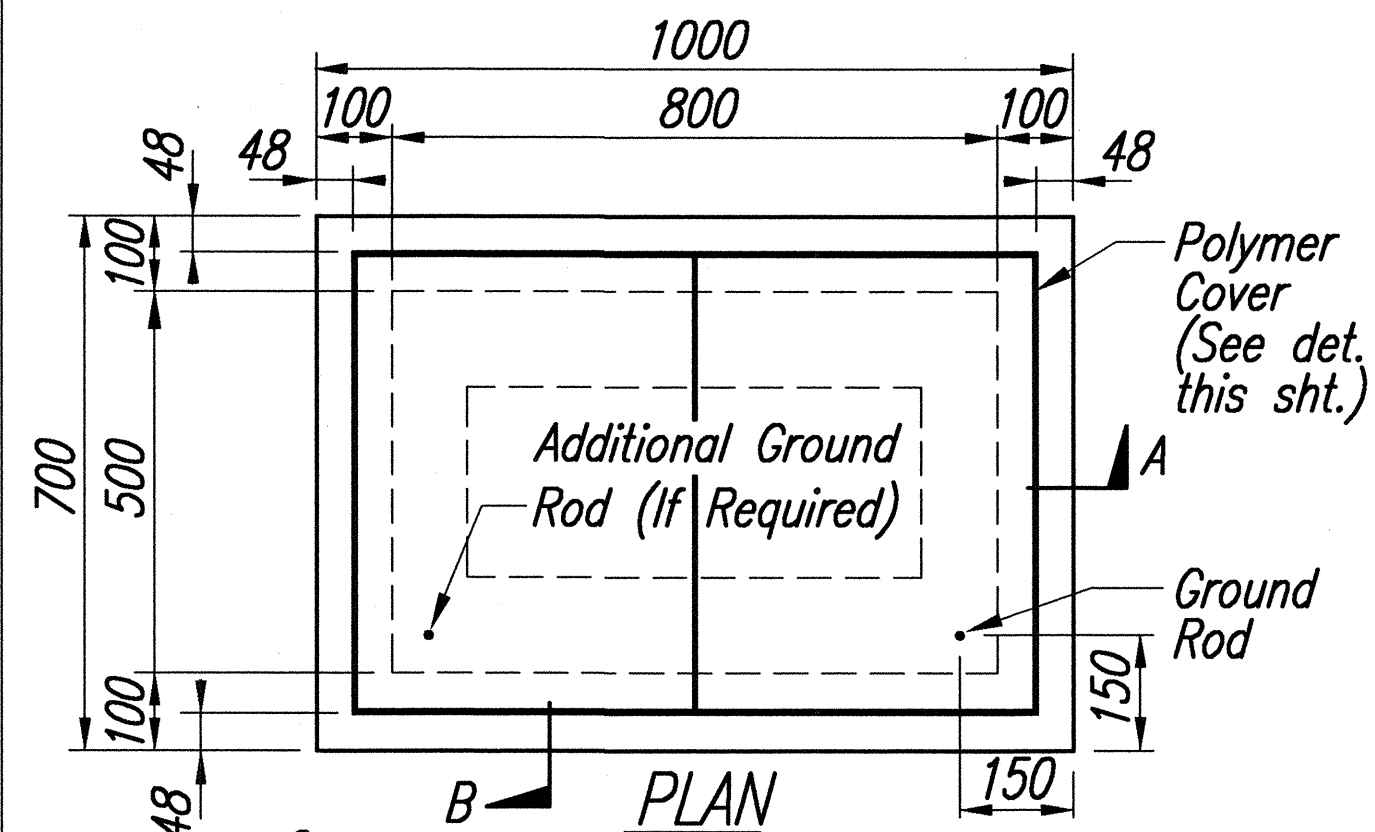
Not to Scale



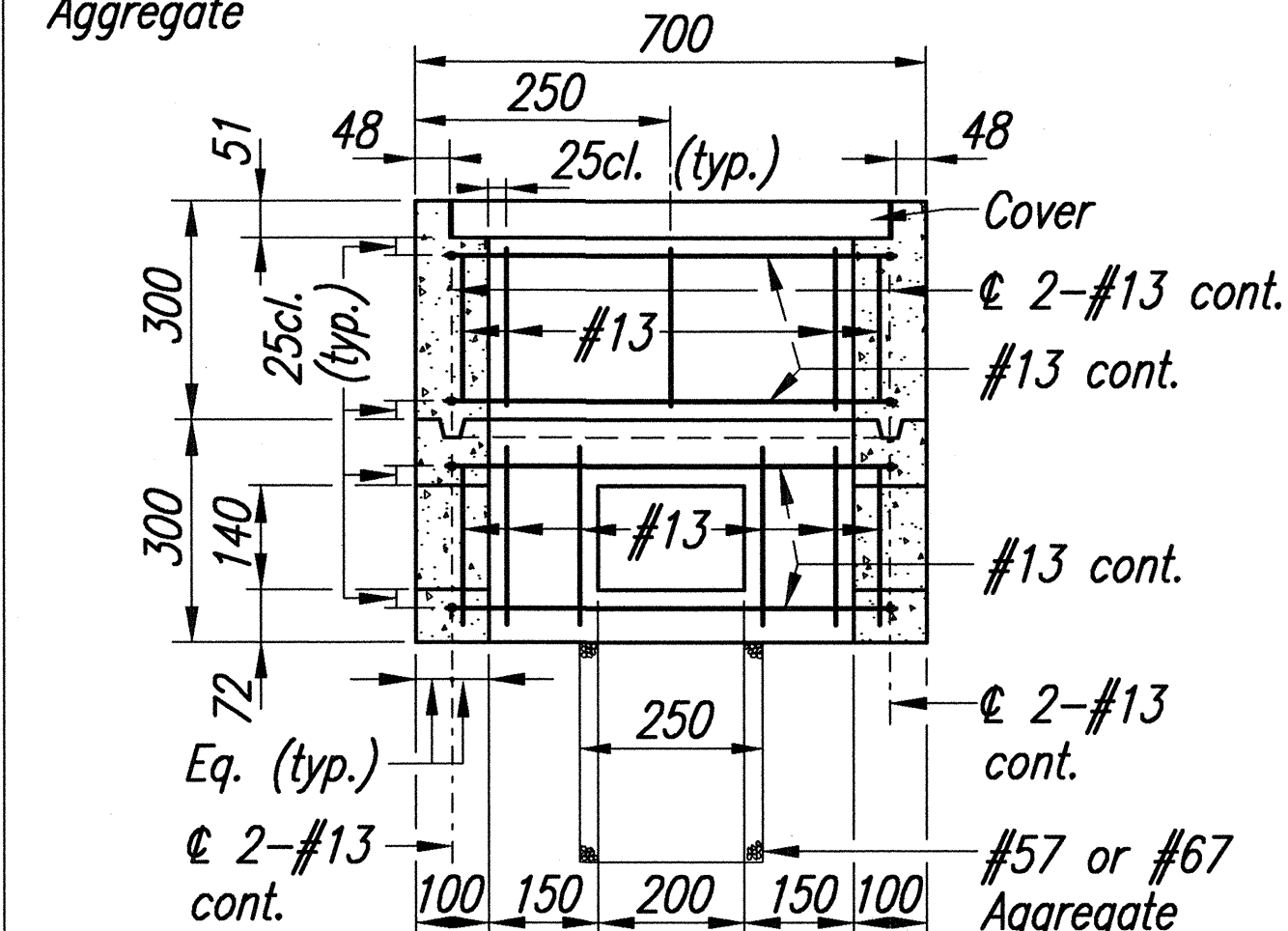
SECTION A-A
#57 or #67 Aggregate



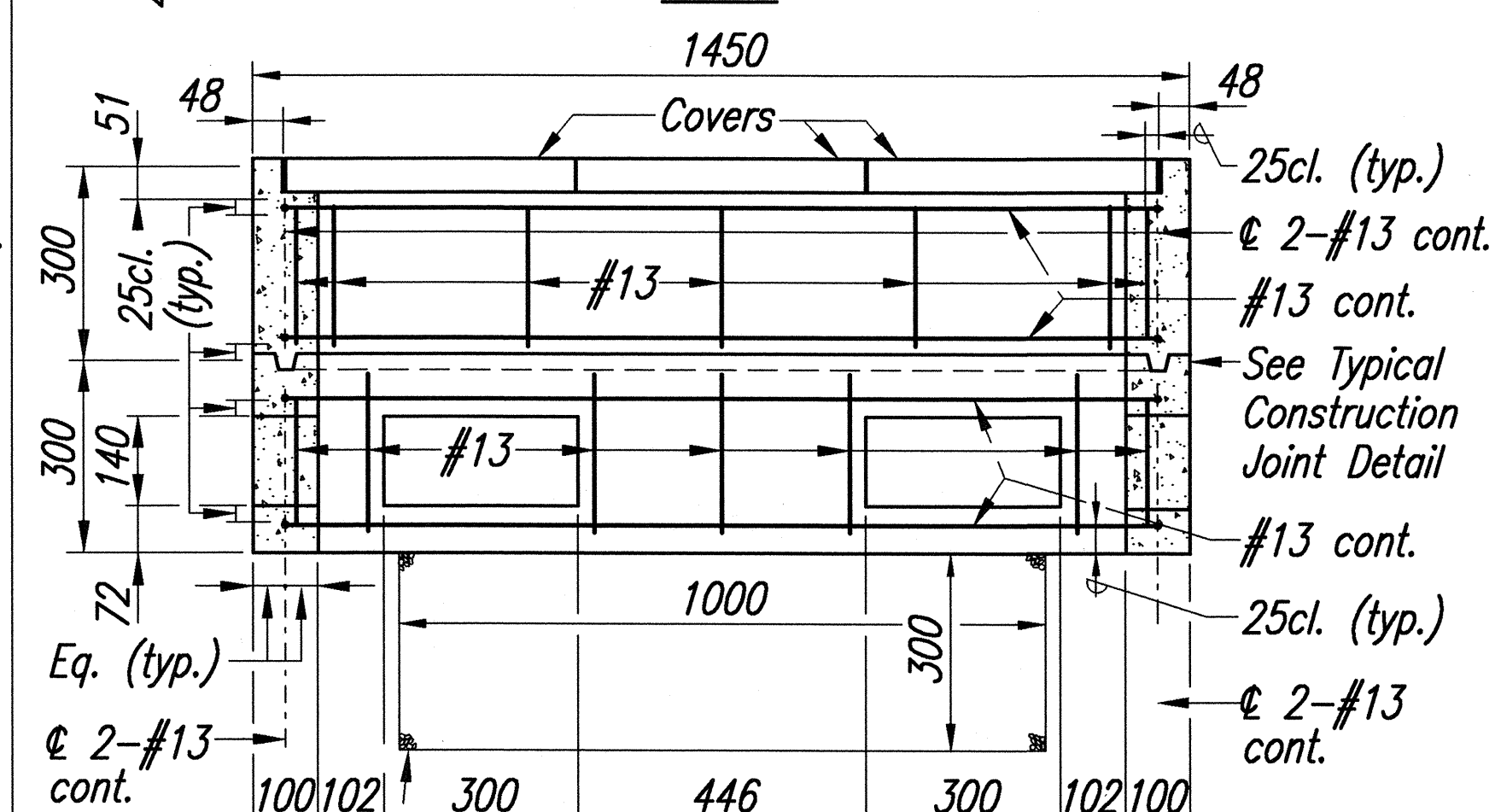
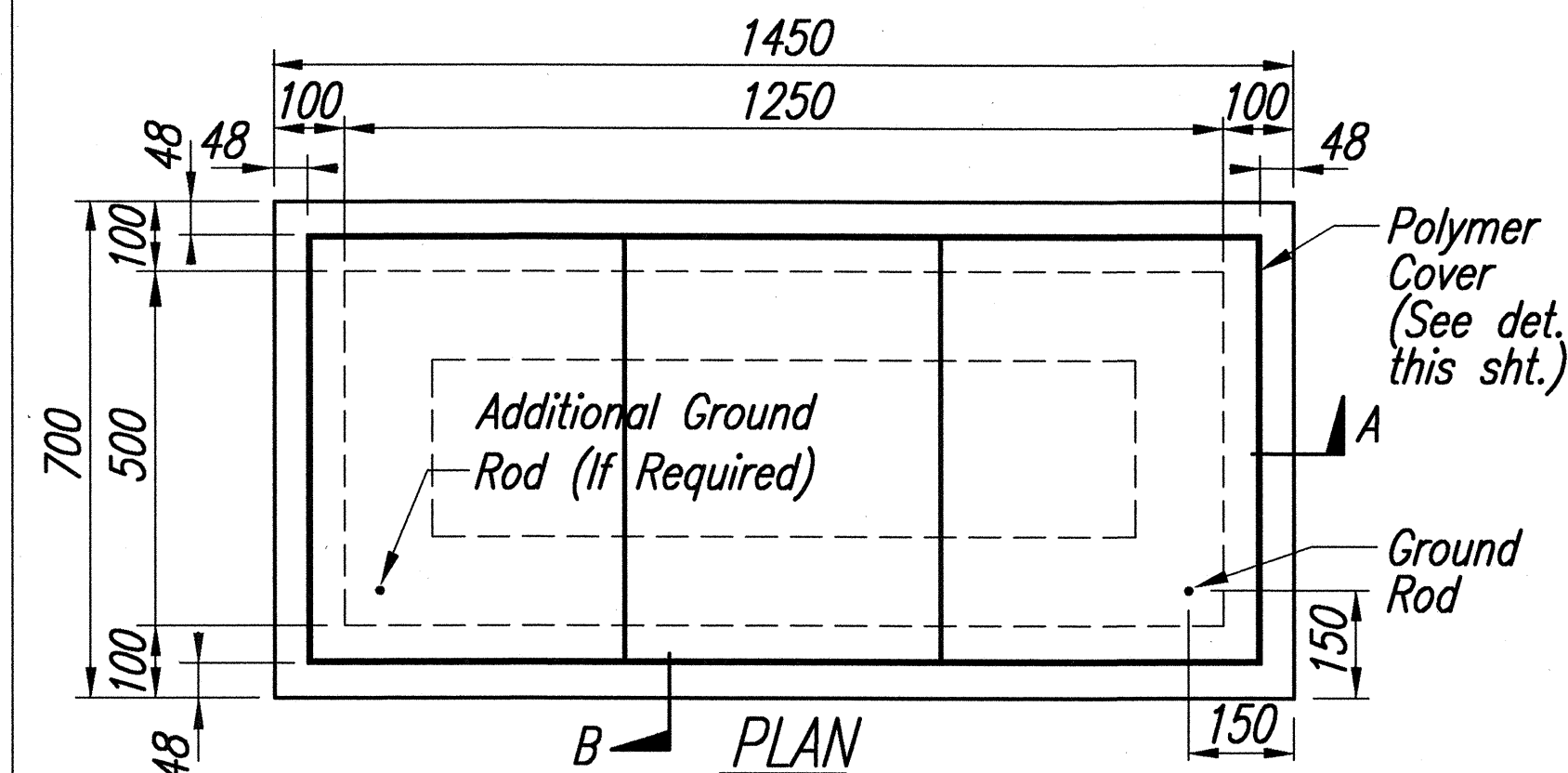
SECTION B-B
TYPE "A" PULLBOX (Old Type "B")
Scale: 1:10



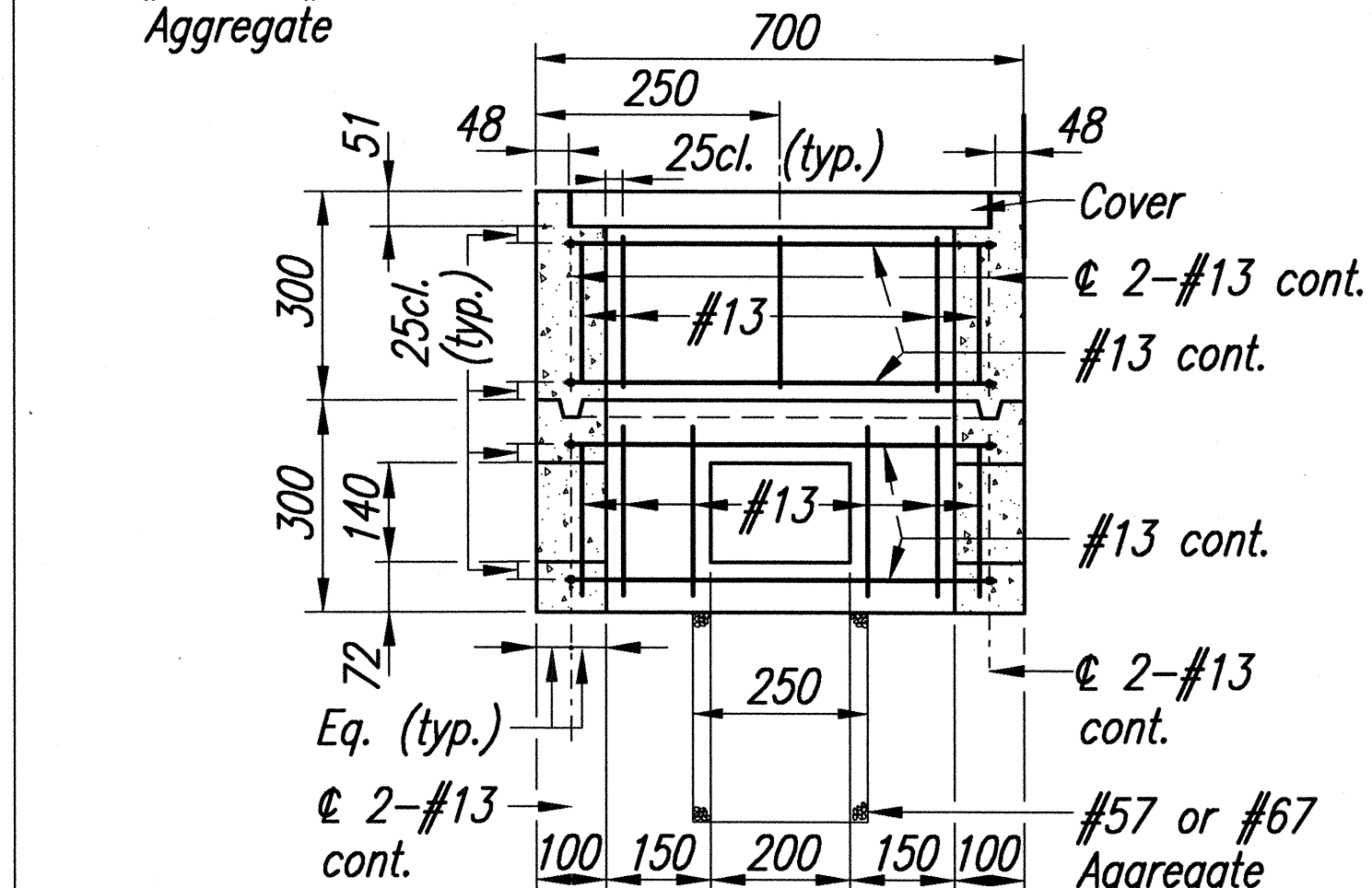
SECTION A-A
#57 or #67 Aggregate



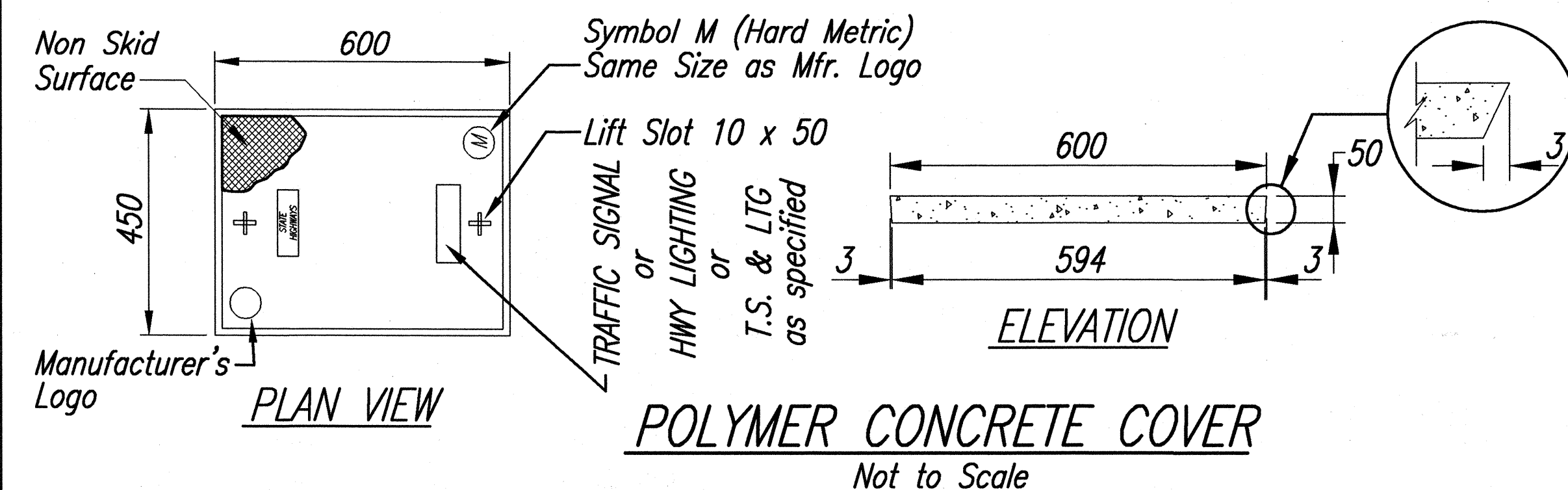
SECTION B-B
TYPE "B" PULLBOX (Old Type "C")
Scale: 1:10



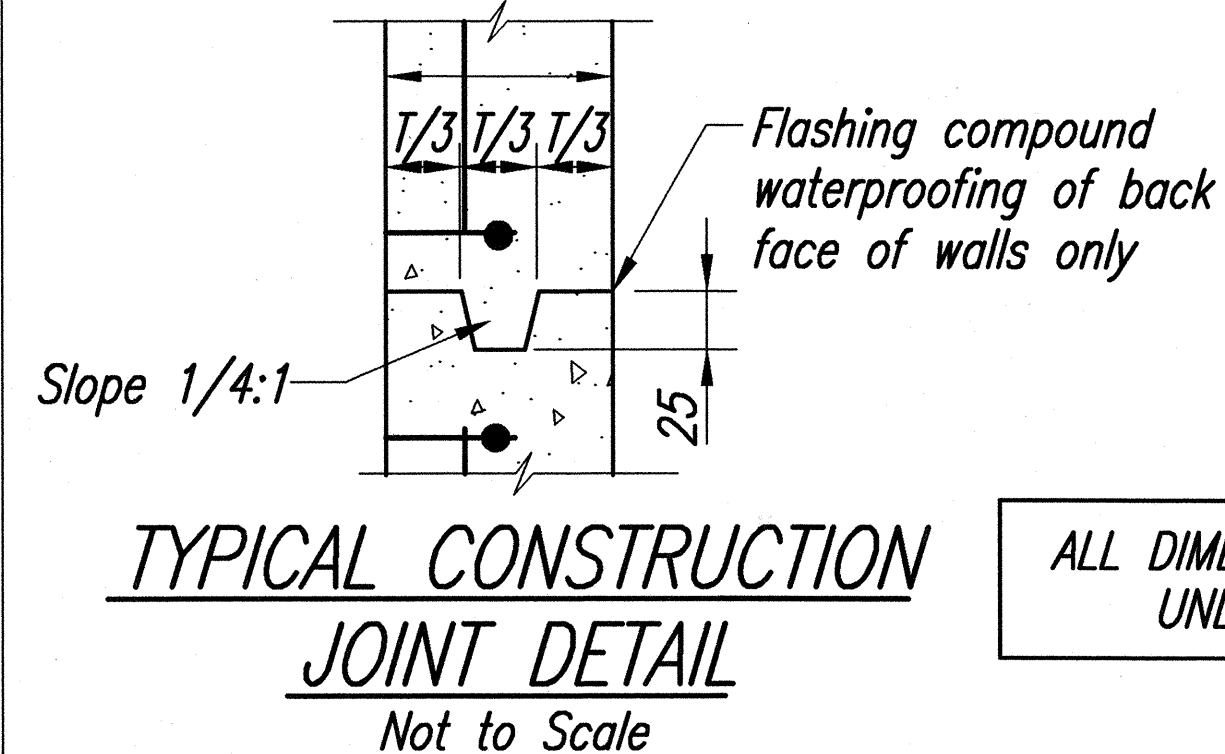
SECTION A-A
#57 or #67 Aggregate



SECTION B-B
TYPE "C" PULLBOX (Old Type "D")
Scale: 1:10

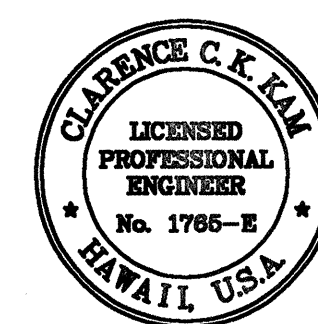


POLYMER CONCRETE COVER
Not to Scale



TYPICAL CONSTRUCTION JOINT DETAIL
Not to Scale

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

C. Lam

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PULLBOX & COVER DETAILS

LIKELIKE HIGHWAY RESURFACING
Emmeline Place to the Wilson Tunnel
F. A. Project No. CM-STP-063-1(21)

Scale: As Shown Date: December, 2001
SHEET No. 1 OF 1 SHEETS