

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	61	74

TRAFFIC SIGNAL NOTES

1. The locations of the Traffic Signal Standards, Traffic Signal Standards w/Mast Arms, Pedestrian Push Buttons, Traffic Controller, Pullboxes, Conduits and Loop Detectors shall be staked out in the field by the Contractor and approval of the locations shall be obtained from the Engineer prior to construction and installation.
2. All splicing shall be done in the pullboxes.
3. Furnishing and installing the conduit stubouts (pullboxes to edge of pavement) will not be paid for separately but shall be considered incidental to the various contract items.
4. A solid #8 bare copper wire shall be pulled with the traffic signal control cable for equipment ground. Cost shall be incidental to the installation of the control cable.
5. All traffic signal work shall conform to the requirements of the "Manual On Uniform Traffic Control Devices For Streets And Highways", Federal Highway Administration (1988) and Amendments.
6. Locations of traffic markings and markers (lane lines, Stop lines, crosswalk, etc.) shown on the plans shall be verified with the Engineer prior to the installation of the traffic signal system.
7. All Conduits between pullboxes and Traffic Signal/Highway Lighting Standards shall not be paid for separately but shall be considered incidental to the various contract items.
8. All Signal-Drop Cables (Type 5 Cables) from the various Types of Traffic Signal Head on the traffic signal standards and mast arms to the pullboxes shall not be paid for separately but considered incidental to the Traffic Signal Head.
9. After installing all the traffic signal cables, the Contractor shall duct seal all conduits in the pullboxes, traffic signal standards and traffic signal controller cabinet concrete base. The duct seal material shall be approved by the Traffic Signal Inspector/Engineer and shall not be paid for separately but considered incidental to the direct buried and/or concrete encased conduits.
10. After installing the Traffic Signal System, the Contractor shall apply grease to all parts of the Traffic Signal System (i.e. fittings, brackets, nipples, elbows, screws, signal head assemblies, bolts, hinges, etc.) as directed by the Traffic Signal Inspector, to prevent rust and corrosion. The grease material shall be approved by the Signal Inspector, and shall not be paid for separately but considered incidental to the various Traffic Signal items.
11. Connecting into existing traffic signal system and making all necessary adjustments shall not be paid for separately, but considered incidental to the various traffic signal contract items.
12. The Contractor shall notify the Traffic Control Branch, Department of Transportation Services, City & County of Honolulu, (Phone No. 523-4589) three (3) working days prior to commencing any work on the traffic signal system.
13. The traffic signal system shall be kept operational during construction. Any temporary traffic signal relocation required shall be approved by the Traffic Control Branch, Department of Transportation Services, and paid for by the Contractor.
14. Existing traffic signal pullboxes in sidewalks shall be removed by demolishing the top 6" of box, filling with #3 rock, and patching with 4" concrete to match existing.
15. The concrete jacket for the Conduit By-Pass Details shown on Sheet TS5, shall not be paid for separately but considered incidental to the various contract items. The Engineer shall determine if a concrete jacket is required.
16. Locations and configurations of traffic signal loop detectors shown on the plans shall be verified with the Engineer prior to installation.
17. All existing traffic signal pullboxes shown on the plans are approximate only. It is not the intent of these plans to show the exact location. It is the Contractors responsibility to verify the new traffic signal loop detector connections to the existing traffic signal pullboxes.

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	
		Traffic Signal Conduit
		Conduit Run Numbers
		Equipment description, installation or item no.
		Traffic Signal Master Controller Door Indicates Front of Cabinet
		Traffic Signal Controller Door Indicates Front of Cabinet
		Meter Pedestal
		12" RYG Traffic Signal Head
		12" RY↑ Traffic Signal Head
		12" R ↗ Traffic Signal Head
		12" R ↗ Traffic Signal Head (Programmed Visibility)
		12" RYG ↖ Fiber Optic Traffic Signal Head
		Type I Standard and Attached Signals
		Type II Standard with Signal Mast Arm and Attached Signals (Nos. indicates mast arm length & distance between signal heads as specified on plans)
		Type III Standard with Luminaire and Signal Mast Arm and Attached Signals (Nos. indicates mast arm lengths & distance between signal heads as specified on plans)
		Flashing Beacon, One Signal Section, "Y" indicates 12" Yellow Lens
		Opticom Receiver (Arrow indicates direction detector faces)
		Pipe Guard
		Pedestrian Signal Head
		Type A Pullbox
		Type B Pullbox
		Type C Pullbox
		Loop Detectors

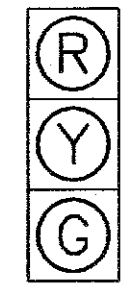
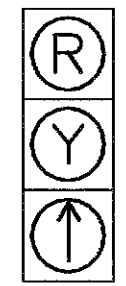
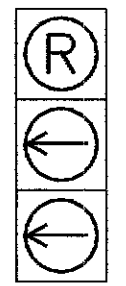
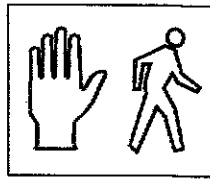
HIGHWAY LIGHTING LEGEND

NEW	EXISTING	
		Highway Lighting Conduit
		Type A Pullbox (Hwy. Ltg.)
		Highway Lighting Standard

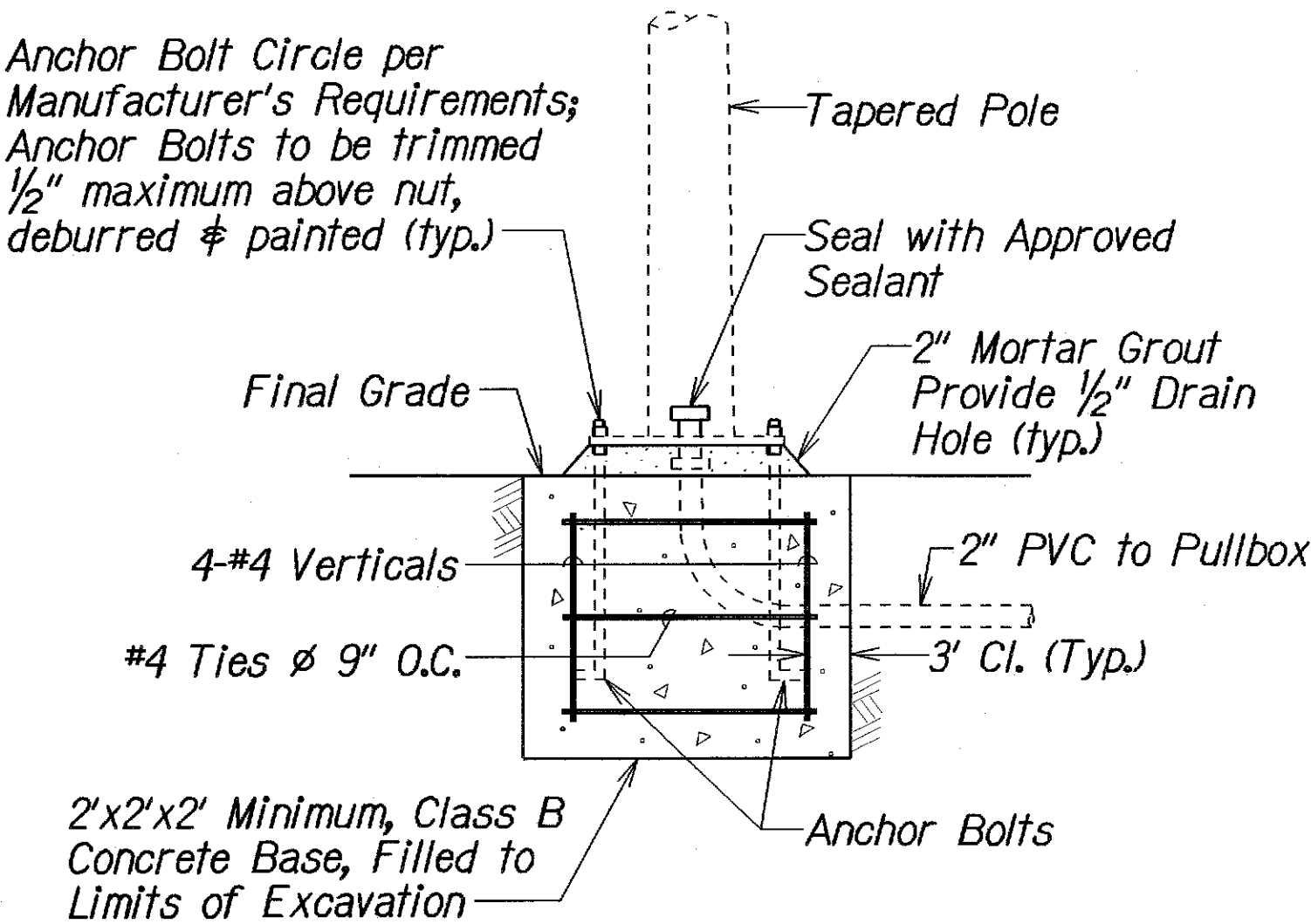
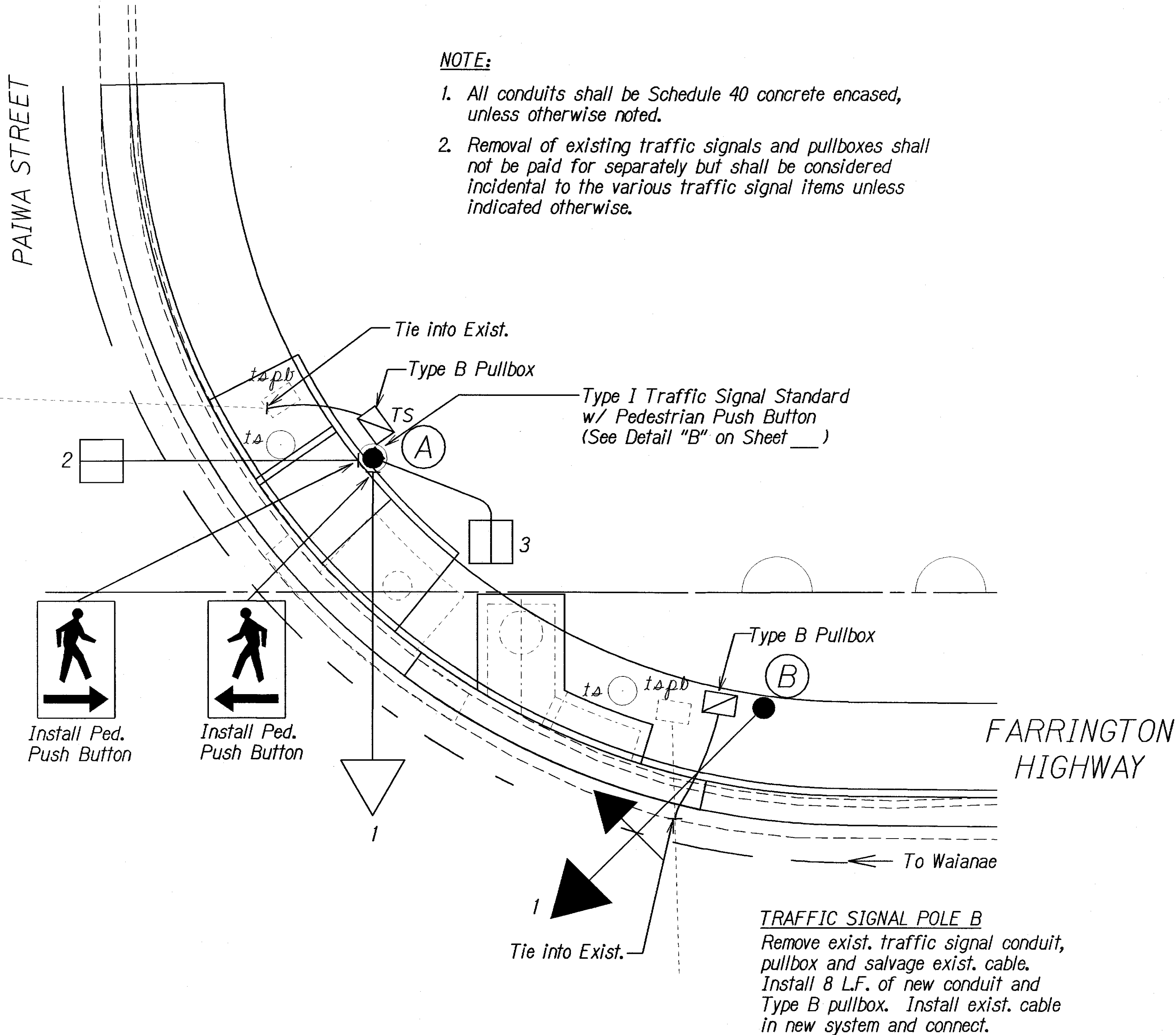
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TRAFFIC SIGNAL
LEGEND AND NOTES**
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
Project No. 7101A-01-04M
Scale: As Shown Date: July 2005
SHEET No. 751 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	63	74

TRAFFIC SIGNAL HEAD SCHEDULE				
Traffic Signal Head Type and Description				
Pole Letter Signal Head Number	A-1		B-1	A-2 A-3
* With Programmed Visibility				

TRAFFIC SIGNAL POLE A
 Remove exist. traffic signal conduit, cable and pullbox. Install 7 L.F. of new conduit and Type B pullbox. Install new cable in new system and connect.



TYPE I
FOUNDATION DETAIL

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN

FARRINGTON HIGHWAY REHABILITATION, VICINITY OF OLD FORT WEAVER ROAD TO KAMEHAMEHA HIGHWAY

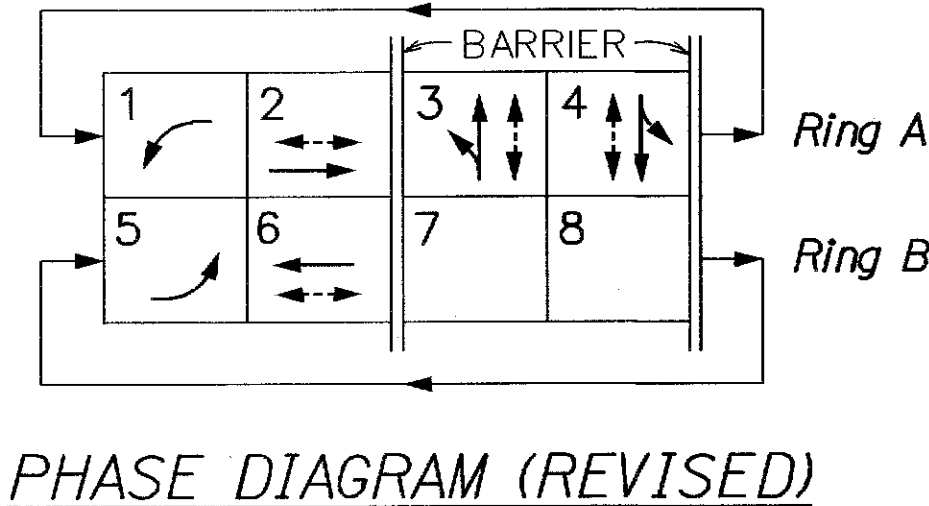
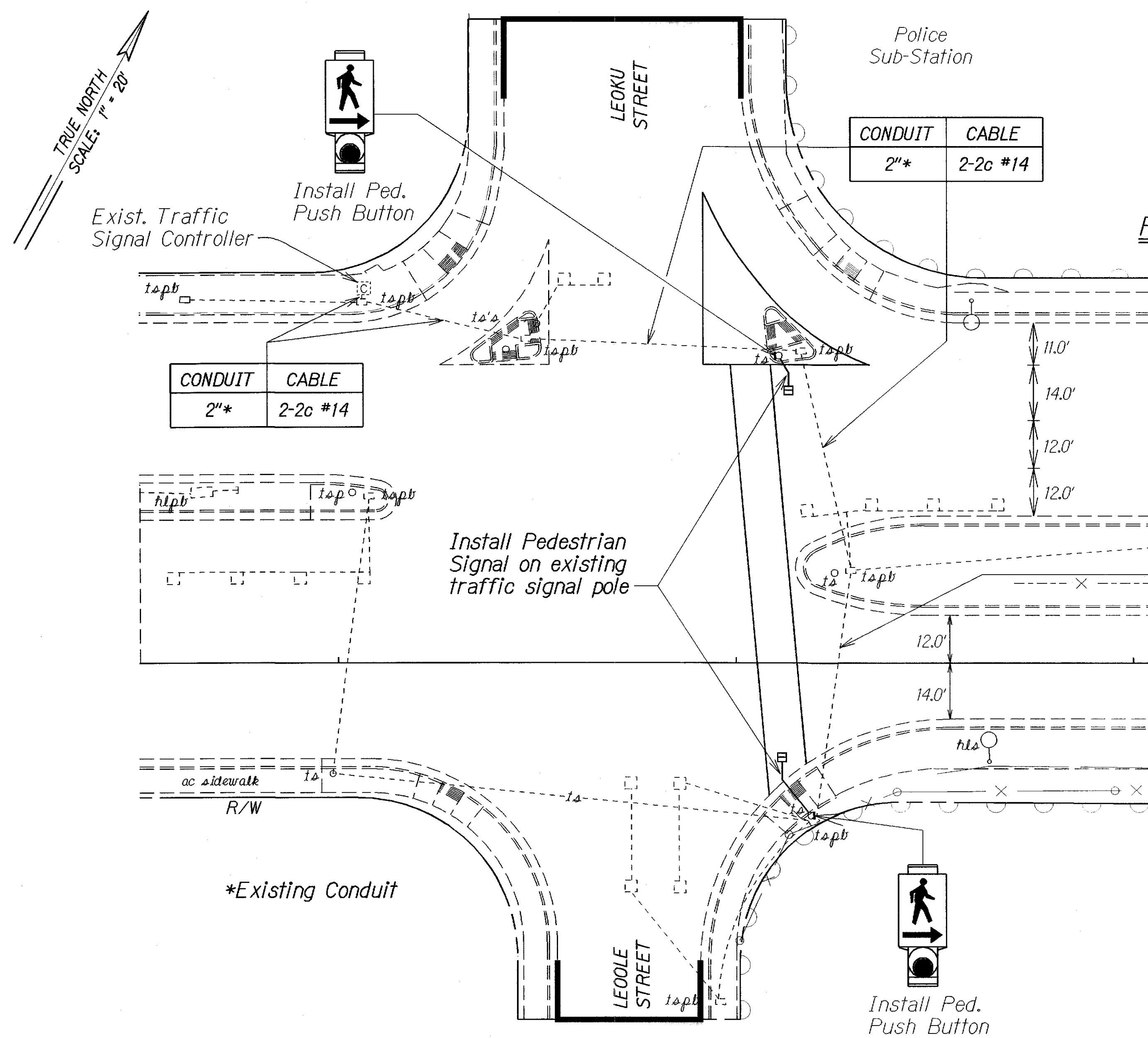
PROJECT NO.: 7101A-01-04M

Scale: 1" = 5' Date: July 2005

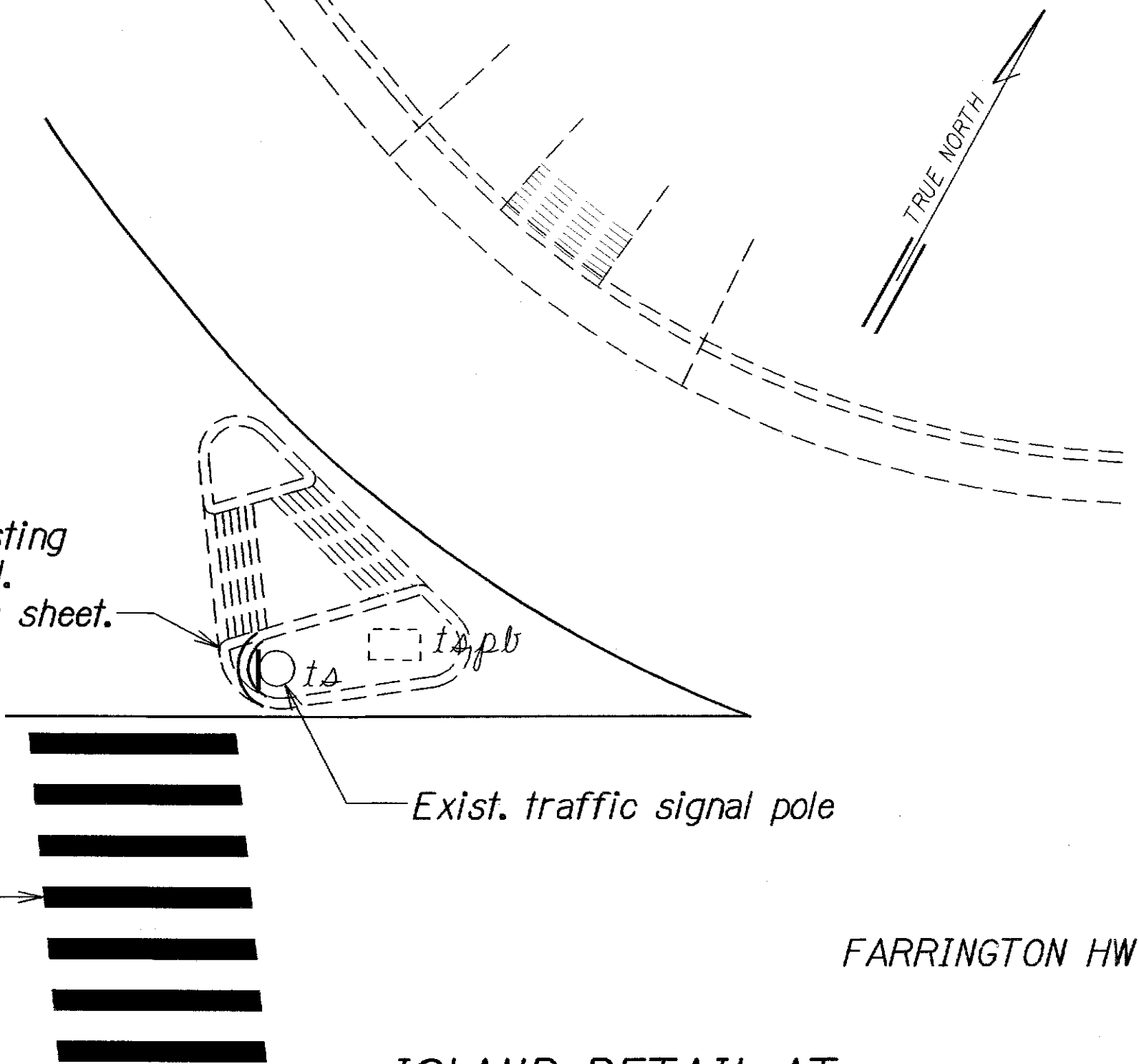
SHEET No. TS3 OF 14 SHEETS

ORIGINAL PLAN	DATE	BY
NOTE BOOK	10/2/05	10/2/05
QUANTITIES BY	10/2/05	10/2/05
CHECKED BY	10/2/05	10/2/05

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	C.O. 63S-1	74

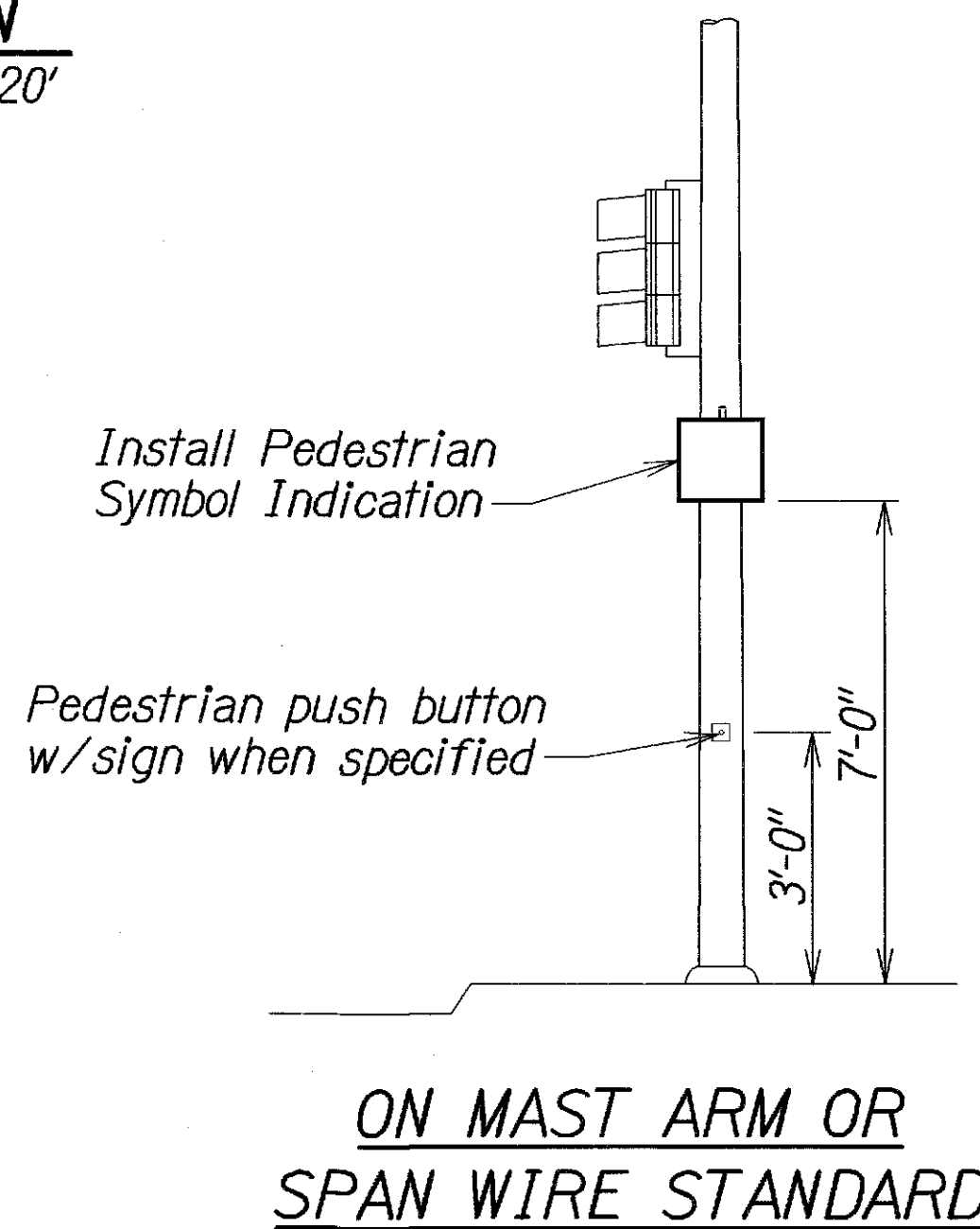
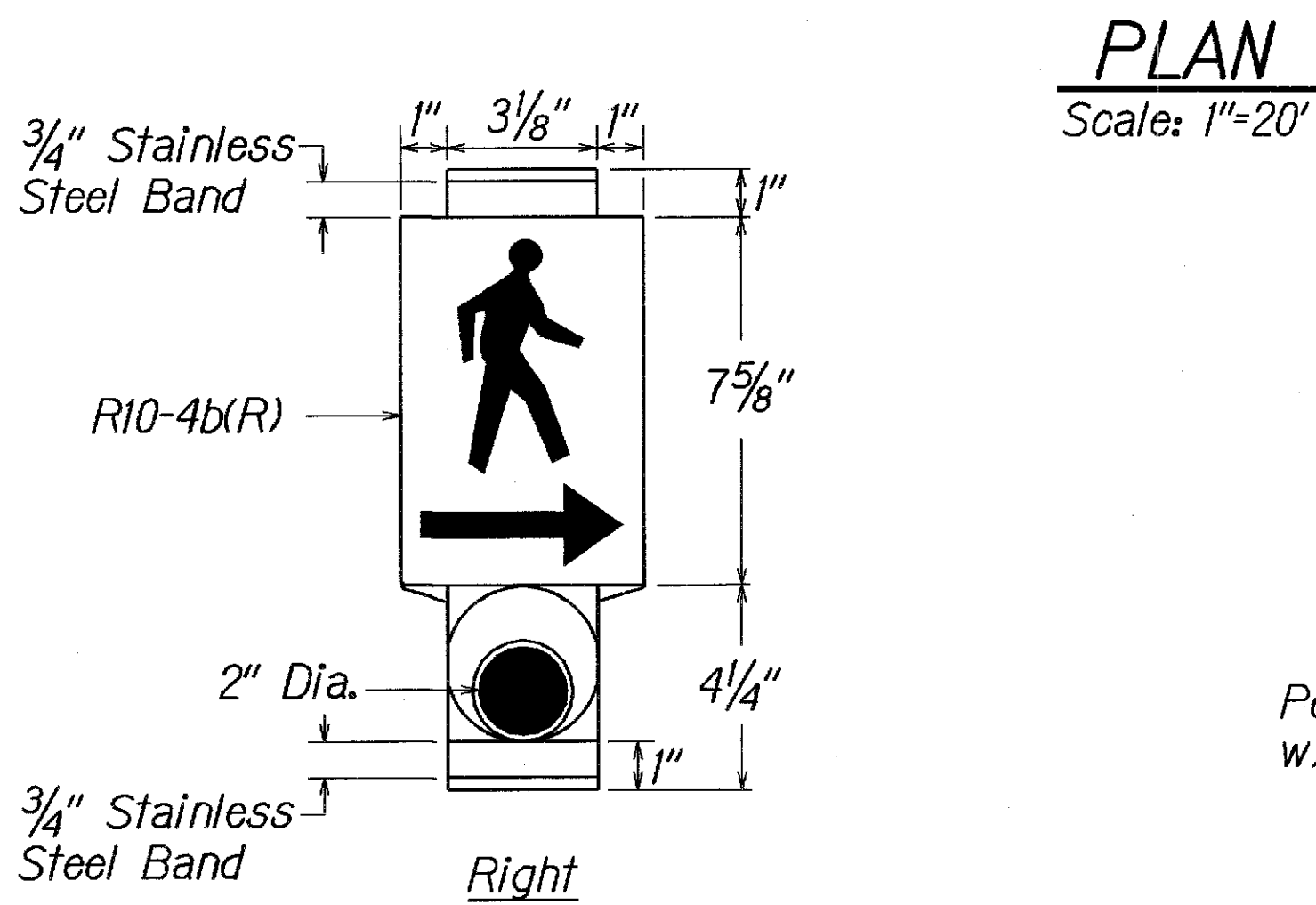
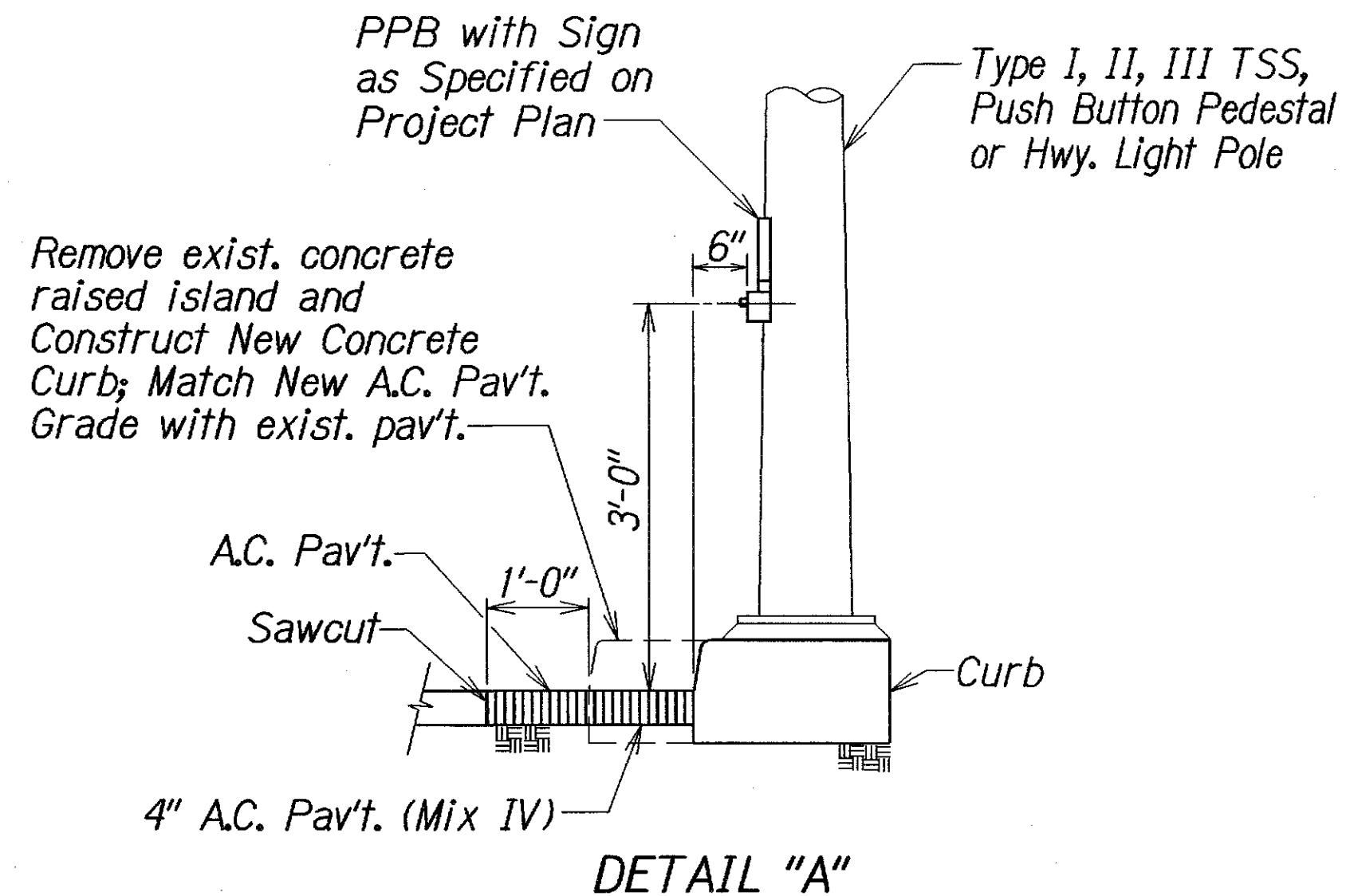


Modify portion of existing concrete raised island. See Detail "A" on this sheet.



NOTES:

1. Install New Pedestrian Signals and Push Buttons on existing traffic signal poles.
2. Install New Cables in existing conduits.
3. Conenct New Pedestrian Signals and Push Buttons to existing traffic signal controller cabinet.
4. The Department of Transportation Services, City & County of Honolulu, will assist the Engineer in construction inspection for the traffic signal system. The Contractor shall notify the Electrical and Maintenance Services Division, Department of Transportaiton Services, three (3) working days prior to commencing work on the traffic signal system (phone no. 523-4589).
5. Modify portion of existing concrete raised island. Construct New Concrete Curb and Patch exsiting pavement with A.C. This work will not be paid for separately and shall be considered incidental to other contract items.



SURVEY PLOTTED BY	DATE
DESIGNED BY	9/27/06
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	10/2/06
BY	Starts2005

9/27/06	This sheet added to contract plans.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M

Scale: As Noted
Date: Sept. 2006

SHEET No. TS3A OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	65	74

STATE RIGHT-OF-WAY BACKFILL NOTES

Trench Backfill Material "A"

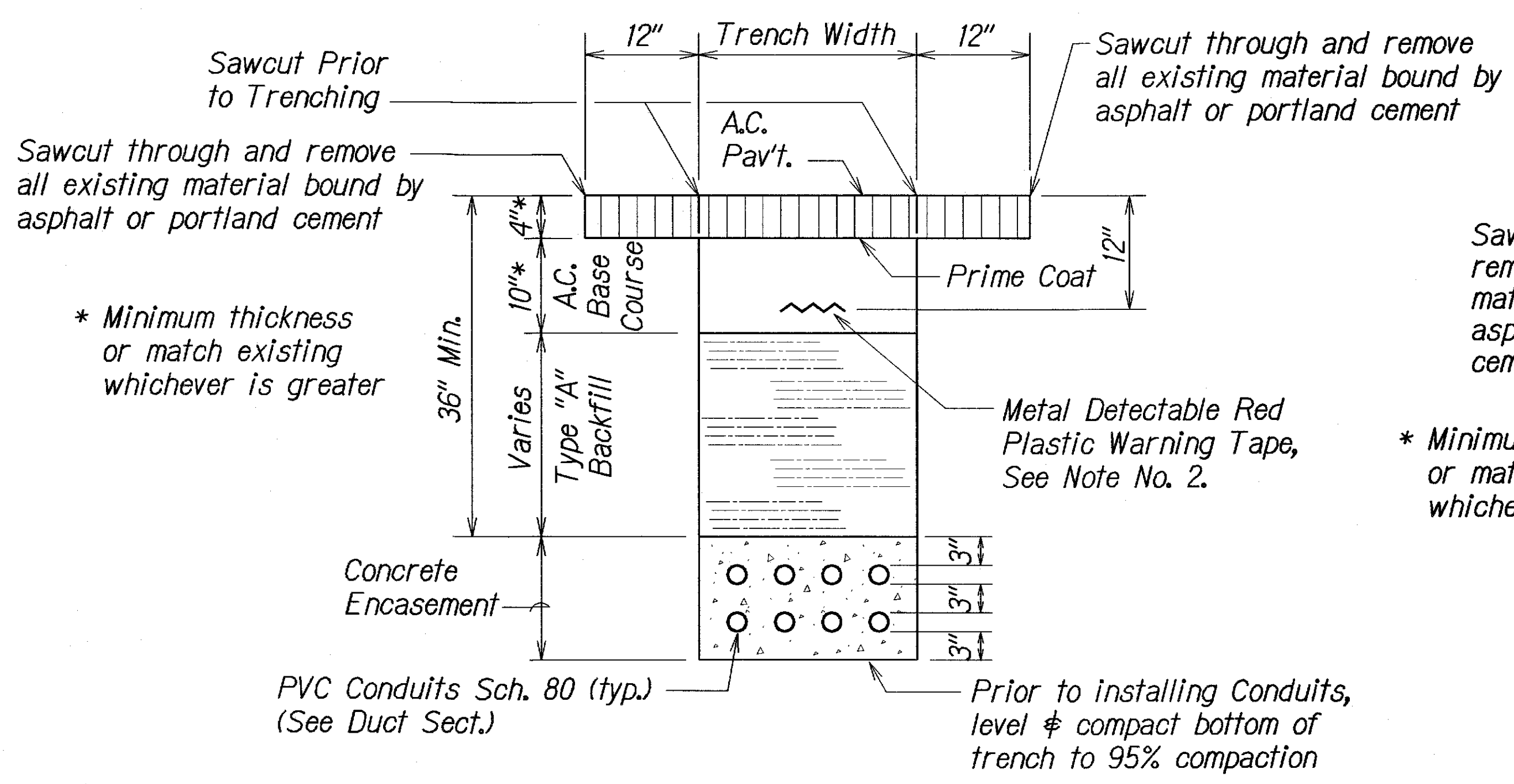
CLSM, Earth, or Earth and Gravel. If Earth and Gravel used, the maximum shall contain not more than 50% by volume of rock particles. Maximum 8" loose fill per lift. Obtain 95% compaction for each lift.

Concrete

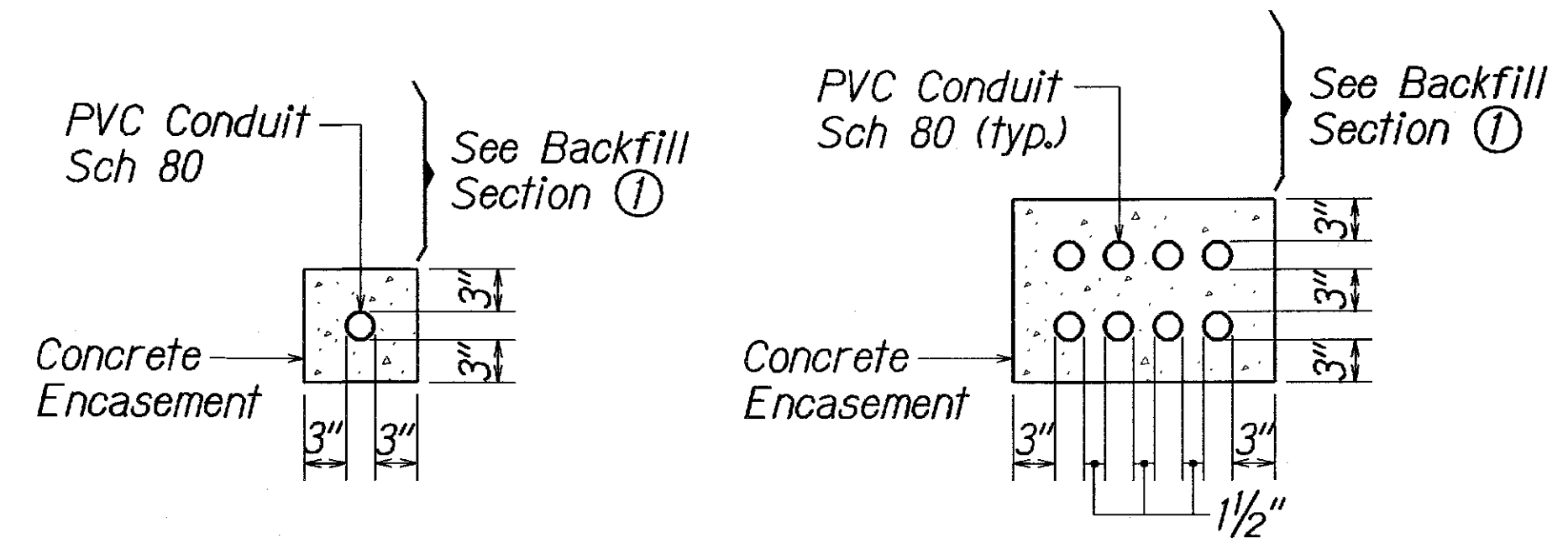
3000 psi compressive strength @ 3 days.

NOTE: Base Course & Sub-Base Course per 1994 State Standard Specifications for Highway Construction.

- GENERAL NOTES
- If trench is located on unpaved area, the Contractor shall replace 10" A.C. Base Course and 4" A.C. Pavement with Type "A" backfill material.
 - The Metal Detectable Red Plastic Warning Tape shall be a minimum 5 mils thick and 4" wide with a continuous metallic backing and corrosion resistant ± mil thick foil core. The message on the tape shall read, "CAUTION - STATE TRAFFIC SIGNAL AND/OR HWY LIGHTING BURIED BELOW," utilizing 1½ inches series "C" black lettering. The message will be repeated with a 4¼" spacing between top line of message and start of next repeat.
 - The Contractor may begin backfilling the conduit trench when the concrete reaches 3000 psi compressive strength after 3 days.
 - Maximum four (4) Conduits per row for multiple conduit duct section.
 - For direct buried duct sections, the concrete jacket required at the conduit by-pass for various utilities, shall not be paid for separately but considered incidental to the direct buried conduits.
 - After installing all the traffic signal cables, the Contractor shall duct seal all conduits in the pullboxes, traffic signal standards and traffic signal controller cabinet concrete base. The duct seal material shall be approved by the Traffic Signal Inspector/Engineer and shall not be paid for separately but considered incidental to the direct buried and/or concrete encased conduits.



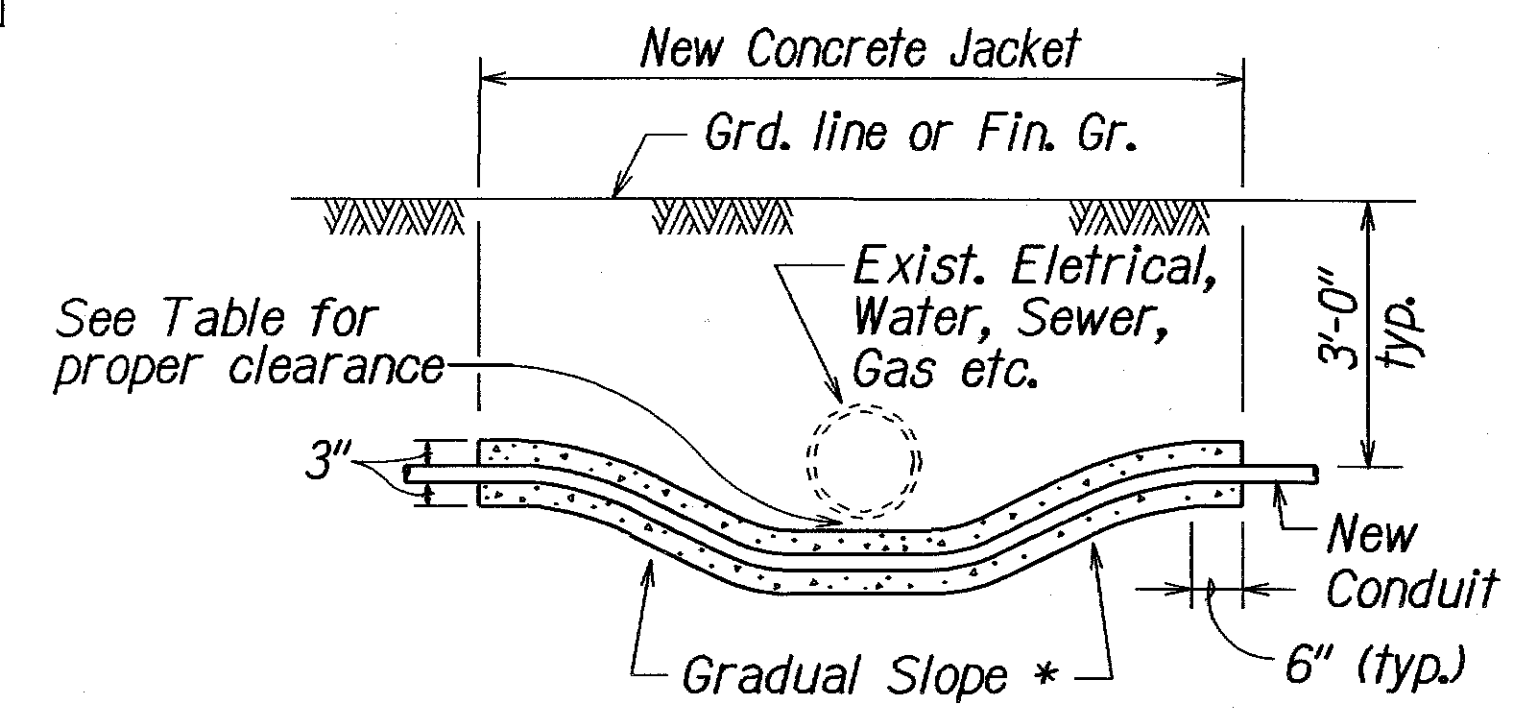
① TYPICAL BACKFILL SECTION WITH CONCRETE ENCASED DUCTS



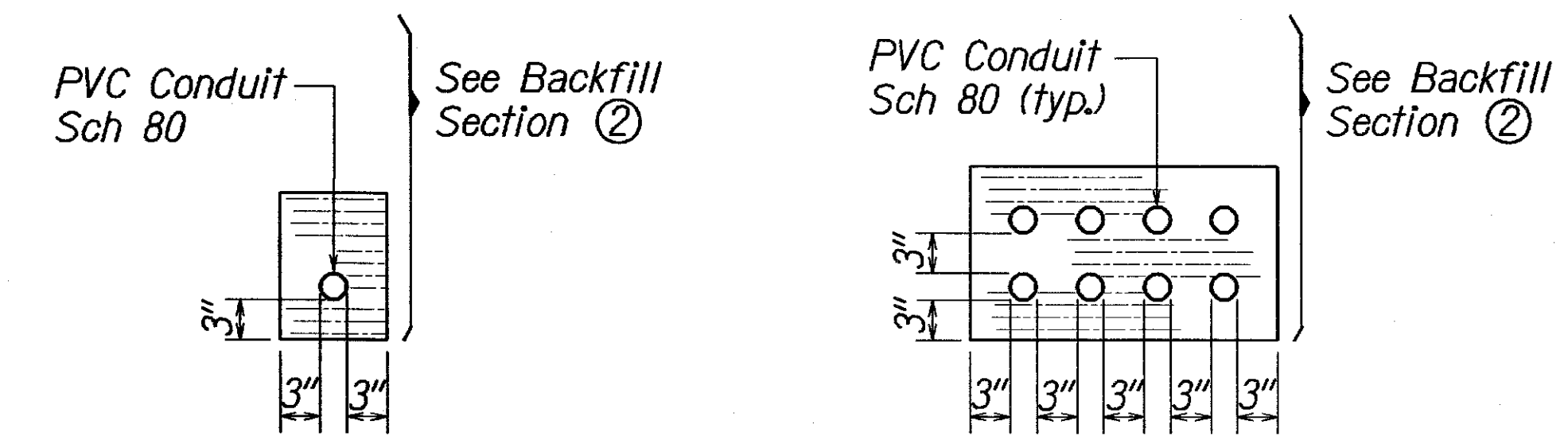
SINGLE CONDUIT MULTIPLE CONDUIT
DUCT SECTIONS - CONC. ENCASED

UTILITY	CLEARANCE
Water	See Note**
Sewer	24" Min. or Provide 6" Thick Reinforced Conc. Jacket
Drain	12" Min.
HECO/HTCO/CATV	3" Min.
AT&T	12" Min.

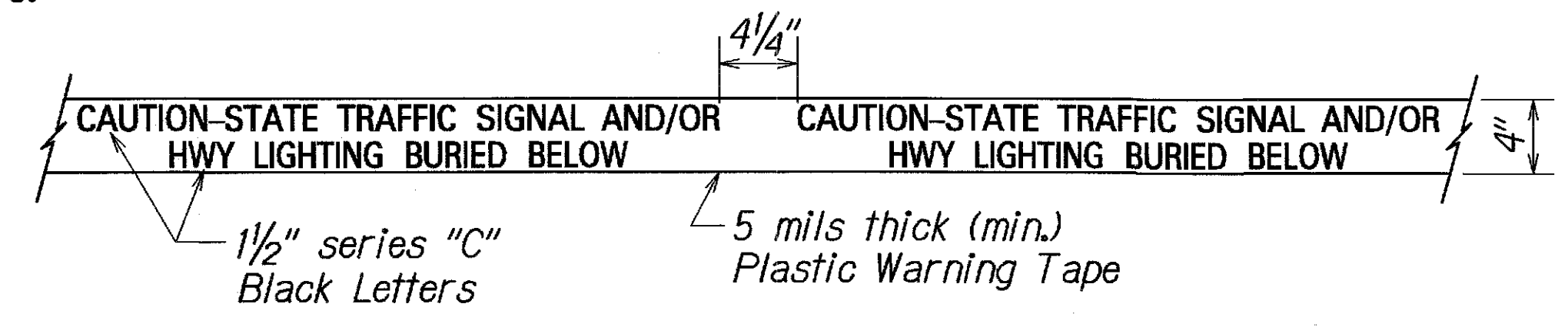
**At the electrical/signal ductline water crossing, install all electrical/signal ductline elevations to maintain 6" vertical clear separation from all waterlines (12" clear for all electrical/signal ductline structures larger than 16") at no cost to the Board of Water Supply.



② TYPICAL BACKFILL SECTION DIRECT BURIED DUCTS



SINGLE CONDUIT MULTIPLE CONDUIT
DUCT SECTIONS - DIRECT BURIED



For additional information see note no. 2.
METAL DETECTABLE RED PLASTIC WARNING TAPE

* To be determined by County Electrical Inspector/Engineer
CONDUIT BY-PASS DETAIL AT VARIOUS UTILITIES
Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL DETAILS

FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY

Project No. 7101A-01-04M

Scale: As Shown Date: July 2005

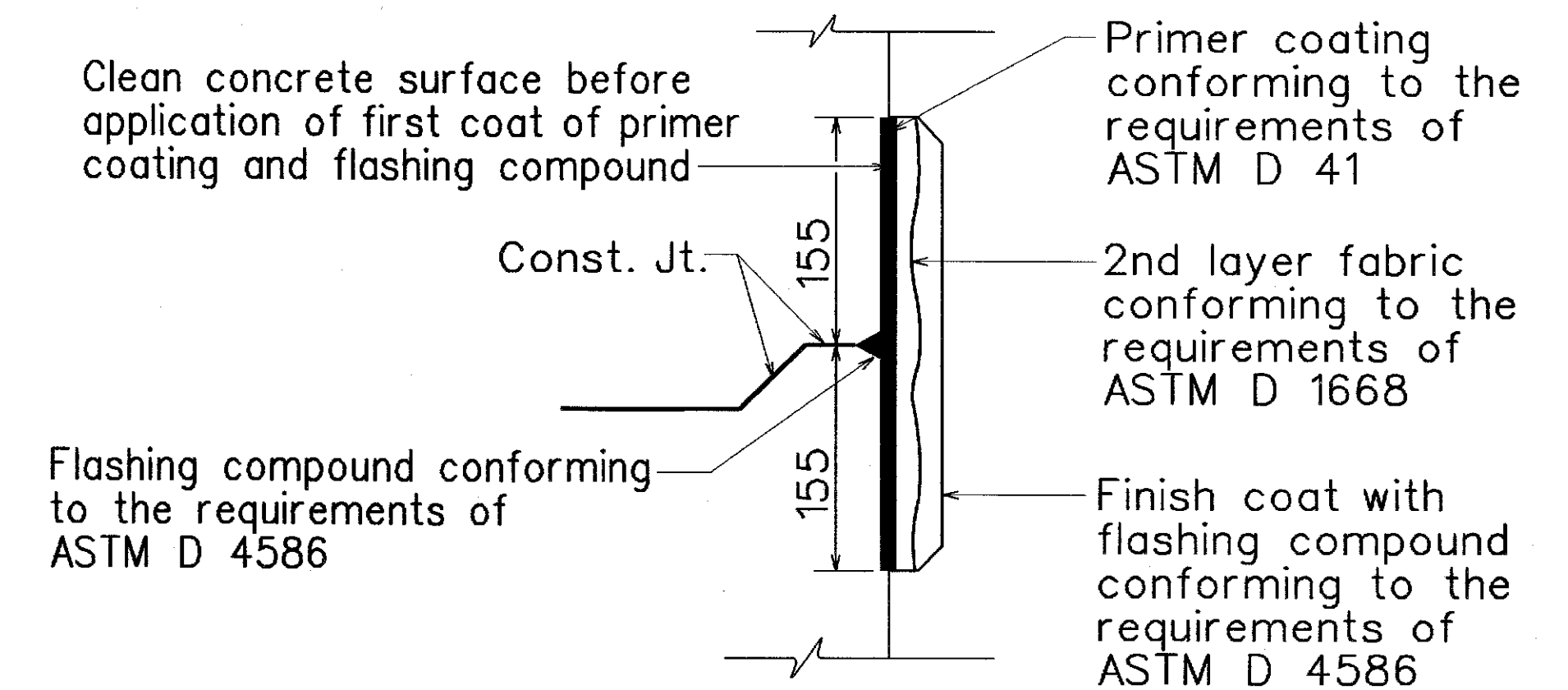
SHEET No. TS5 OF 14 SHEETS

ORIGINAL PLAN	DATE	BY
DESIGNED BY		
CHECKED BY		
NOTED BY		
DATE		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	66	74

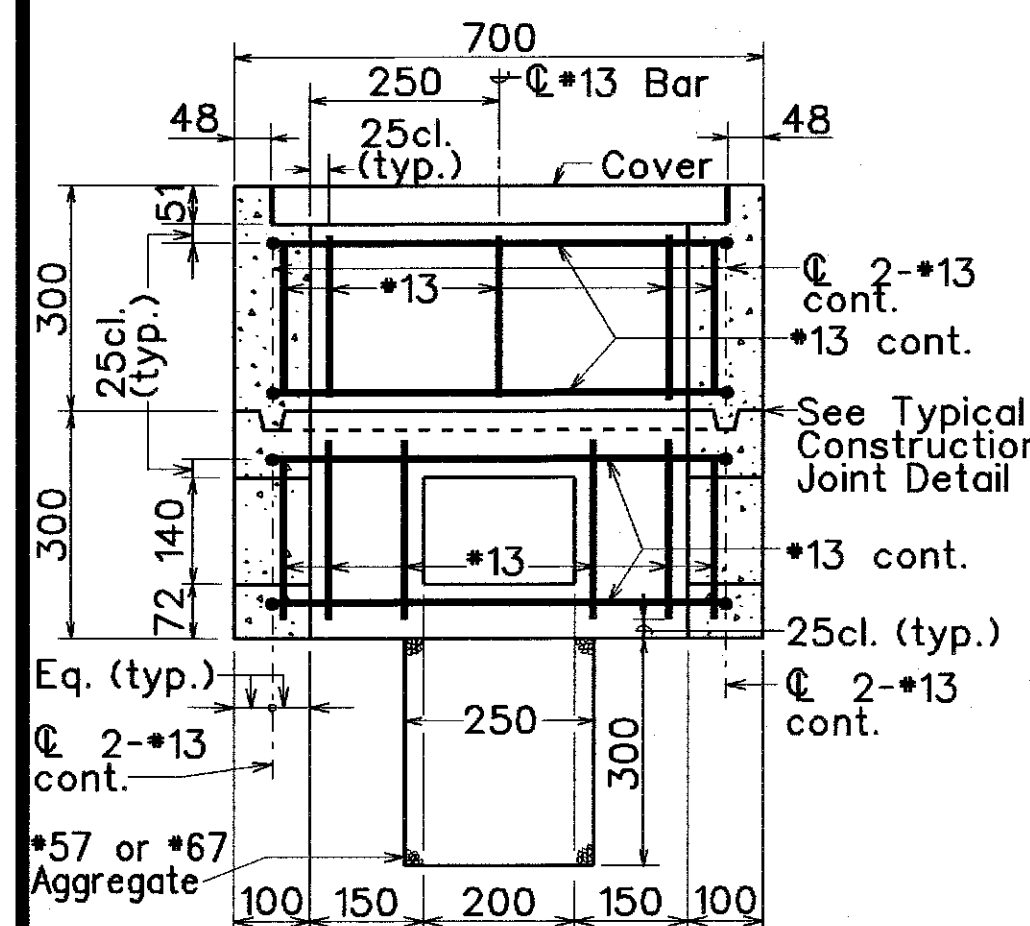
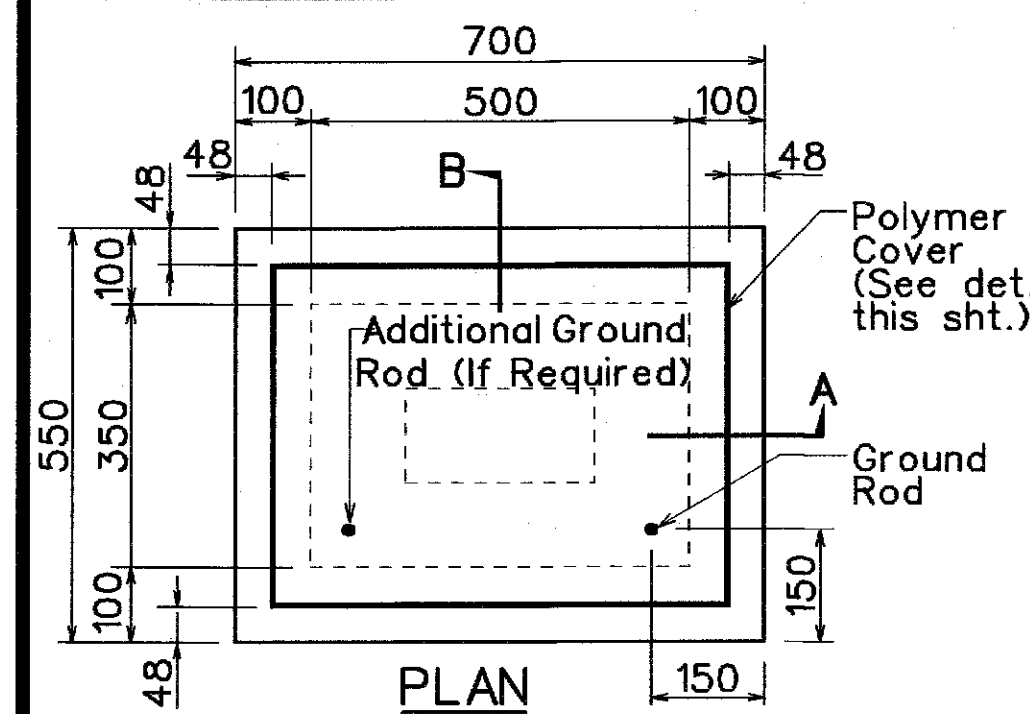
GENERAL NOTES

1. Provide a minimum of one 16 ϕ 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.
2. All pre-cast concrete pullboxes shall be manufactured in two pieces.
3. The pullbox with cover shall be capable of supporting an MS 18 Loading.
4. The maximum weight of the pullbox cover shall not exceed 27 kilograms.
5. The openings for the conduits on all pullboxes shall be pre-cast concrete knockouts.
6. 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.
7. 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.
8. All concrete shall be Class A (21 MPa (3,000 psi), min.)
9. Rebars shall be Grade 300 and all lapped splices shall be 360mm minimum.
10. The #57 or #67 size aggregate shall conform to latest version of AASHTO M43 (ASTM D 448).
11. 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).

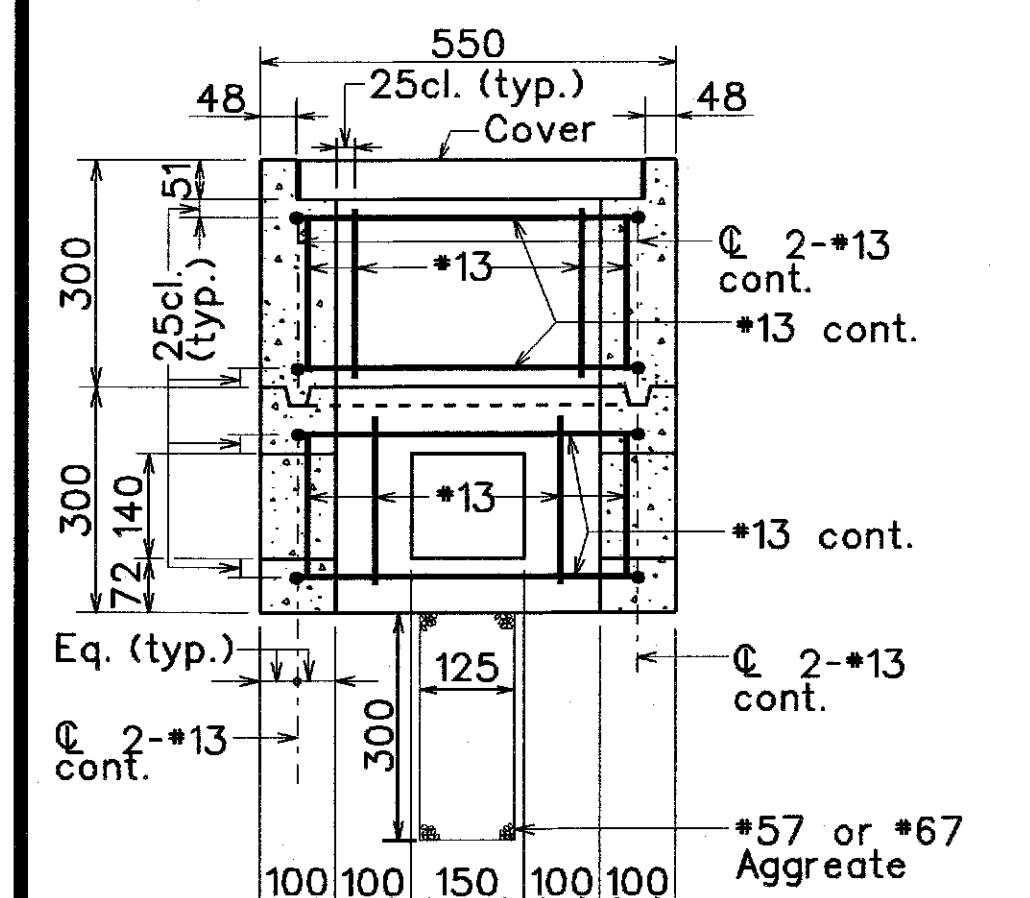


TYPICAL FLASHING COMPOUND WATERPROOFING DETAILS

ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SHOWN

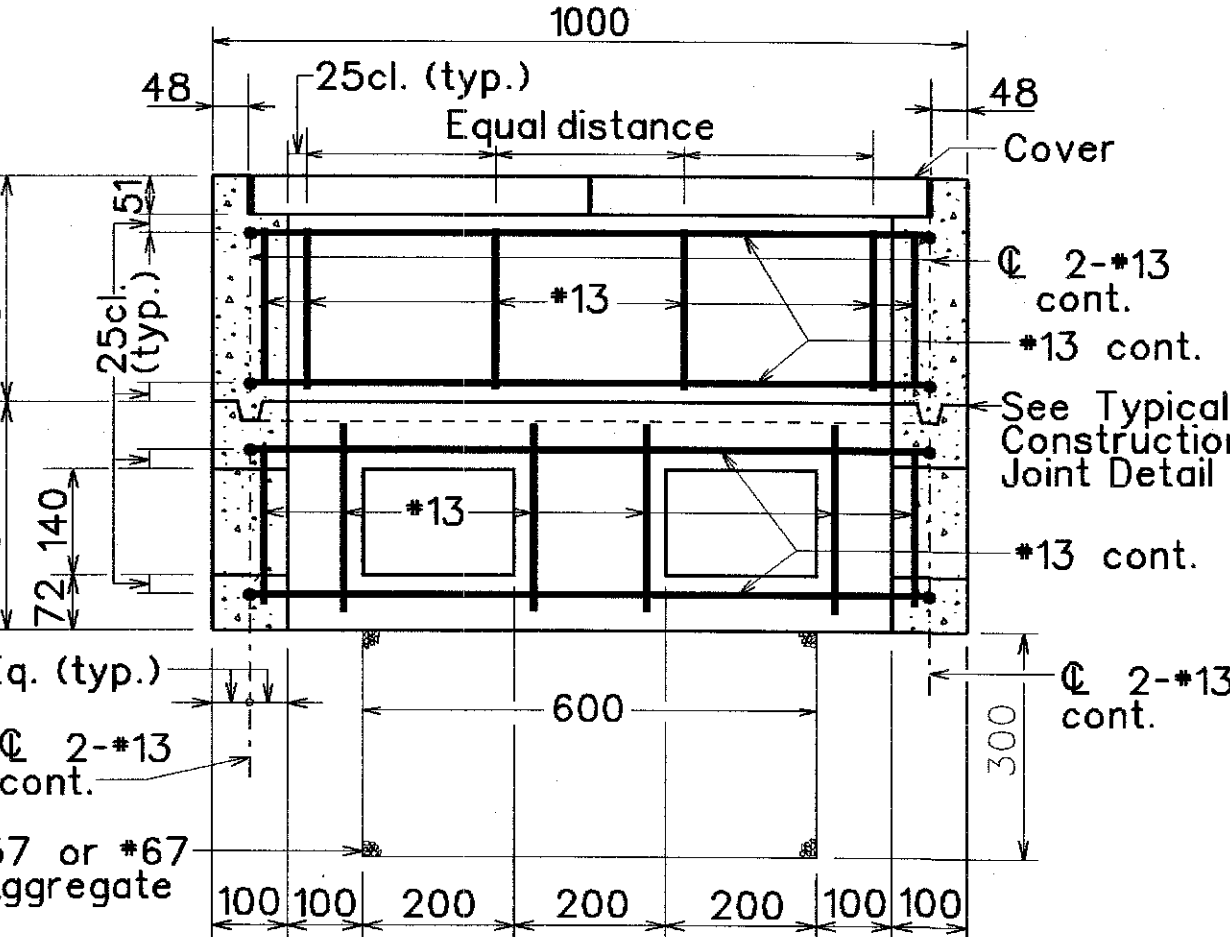
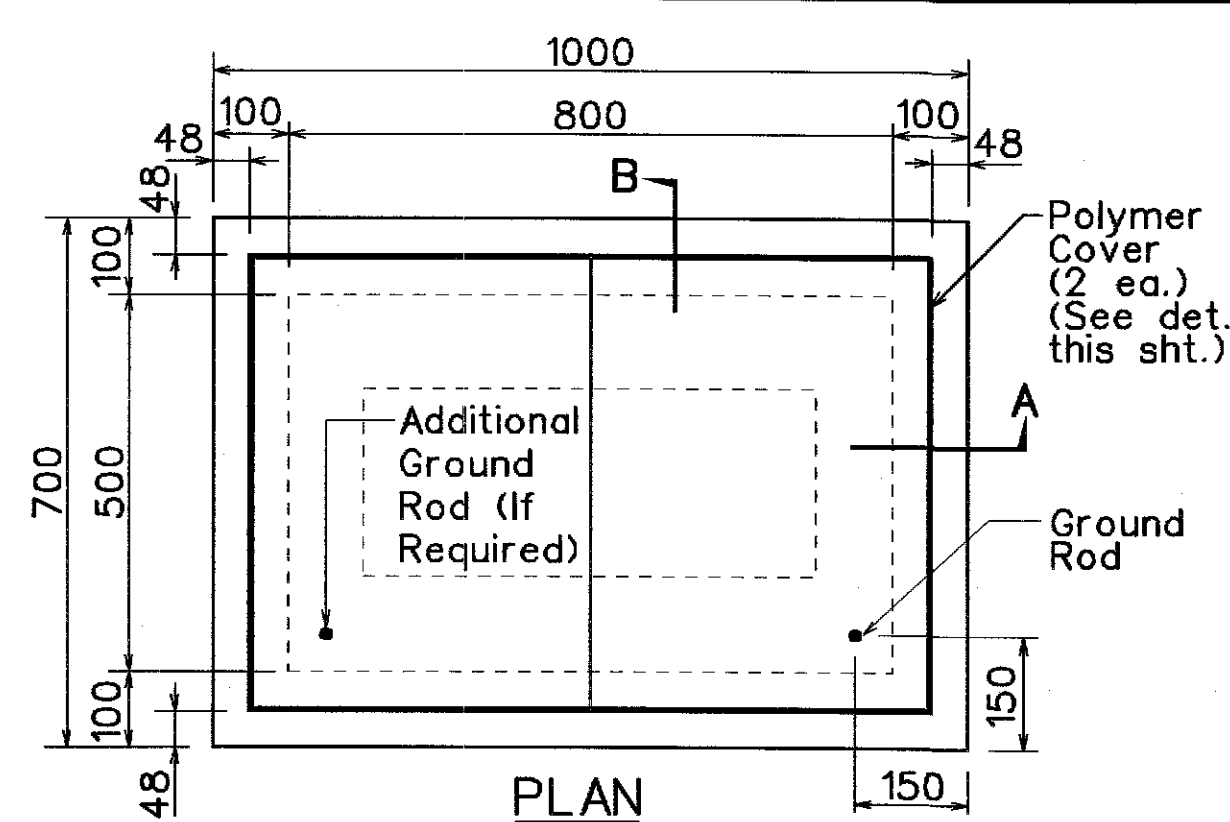


SECTION A-A

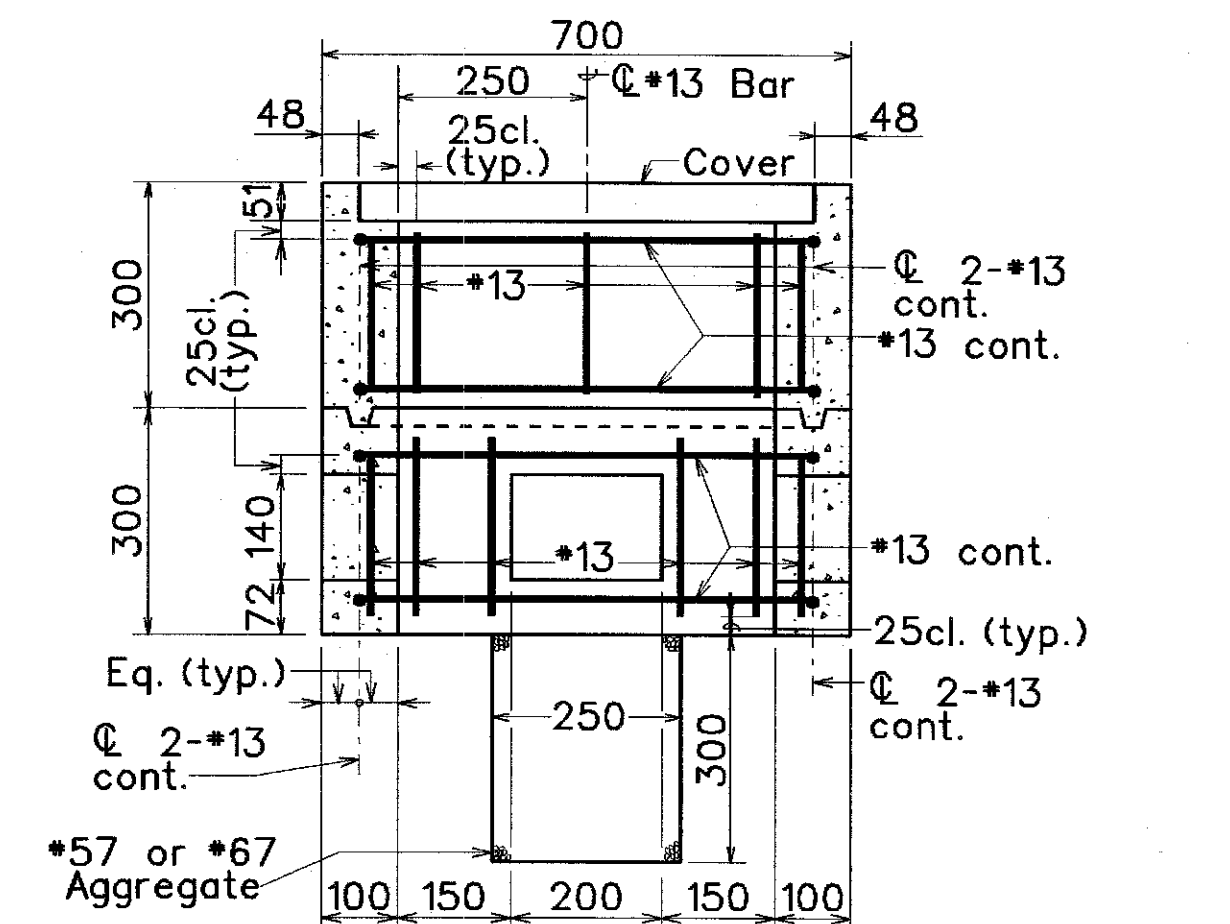


SECTION B-B

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

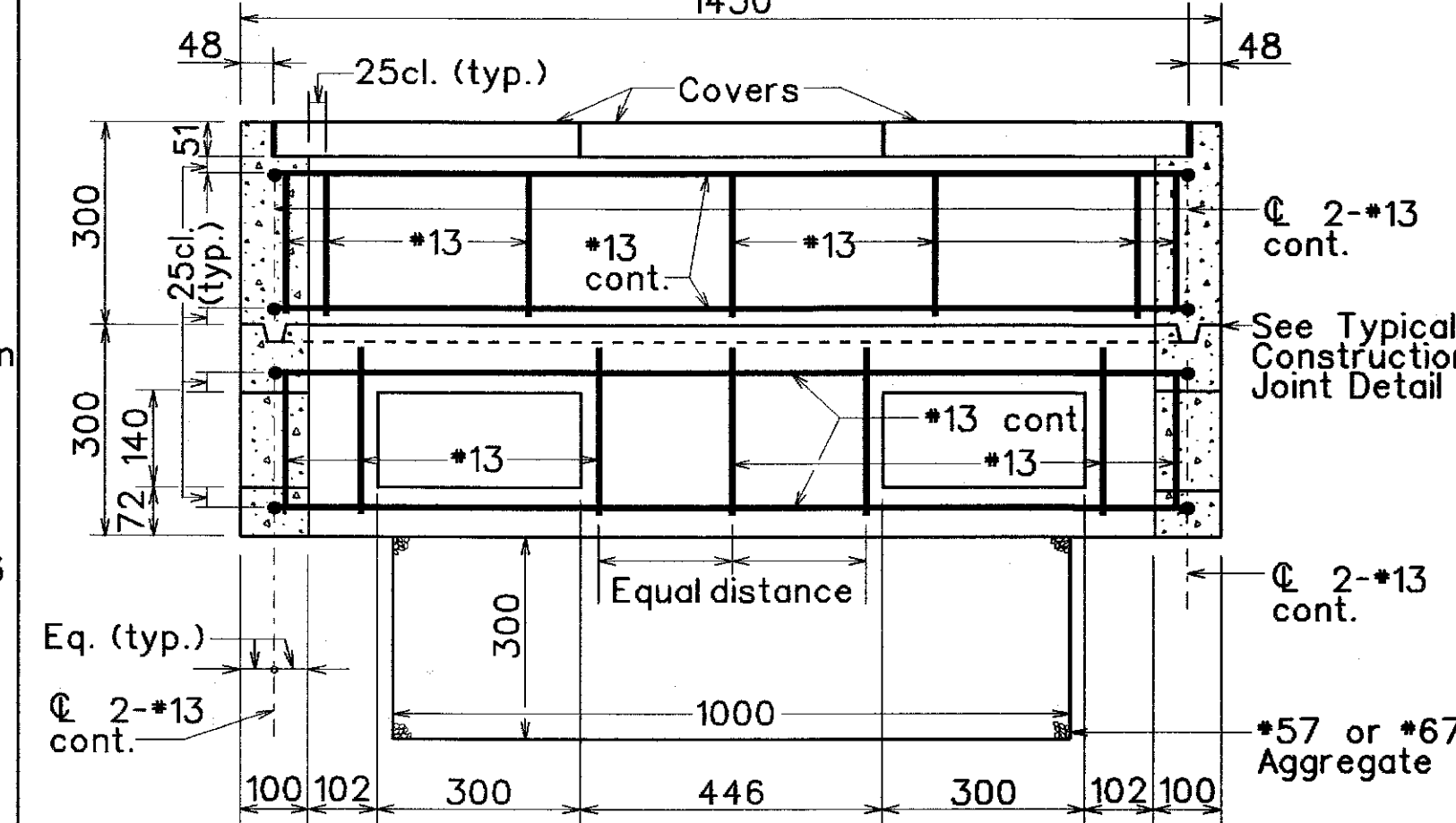
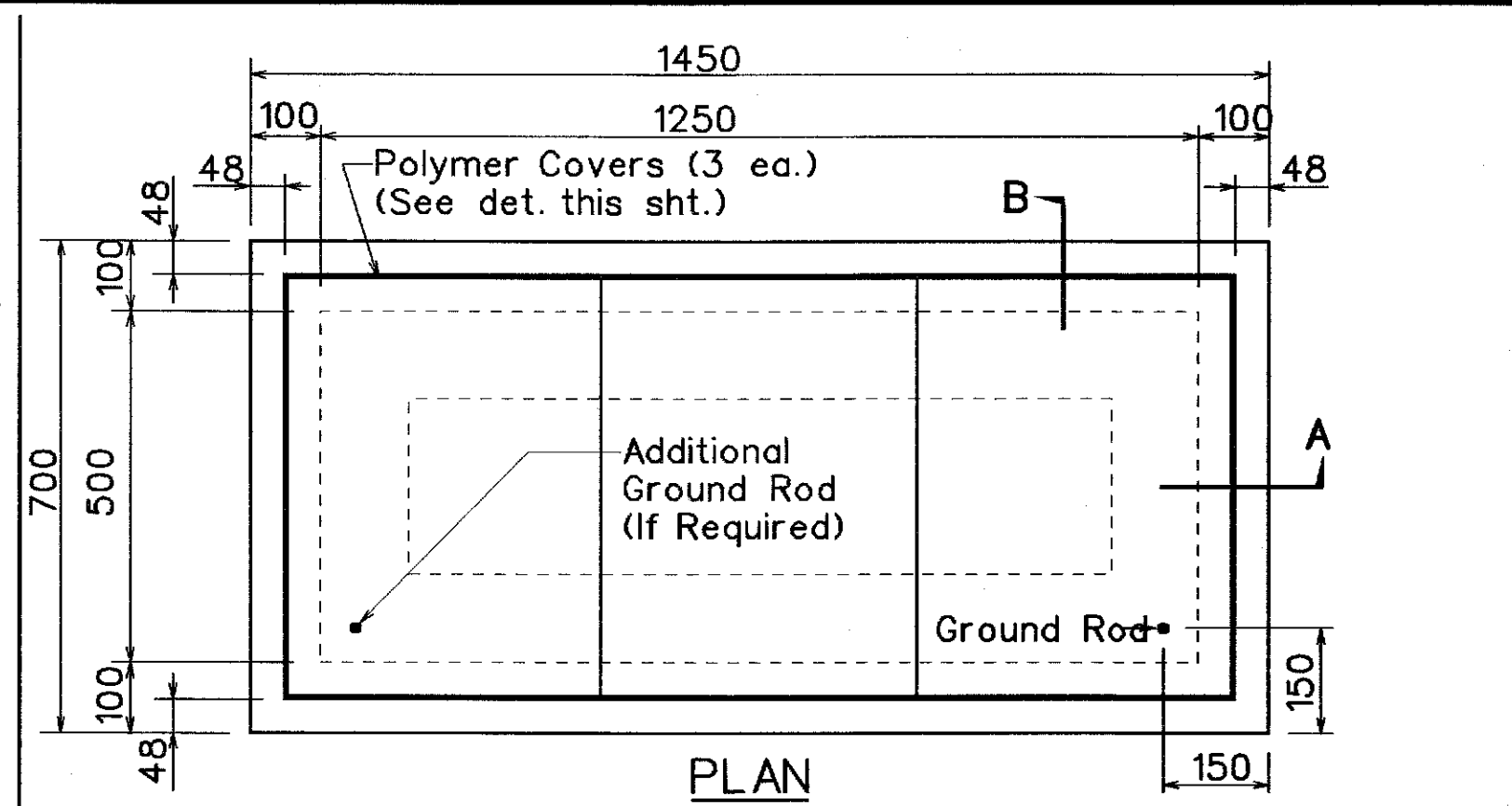


SECTION A-A

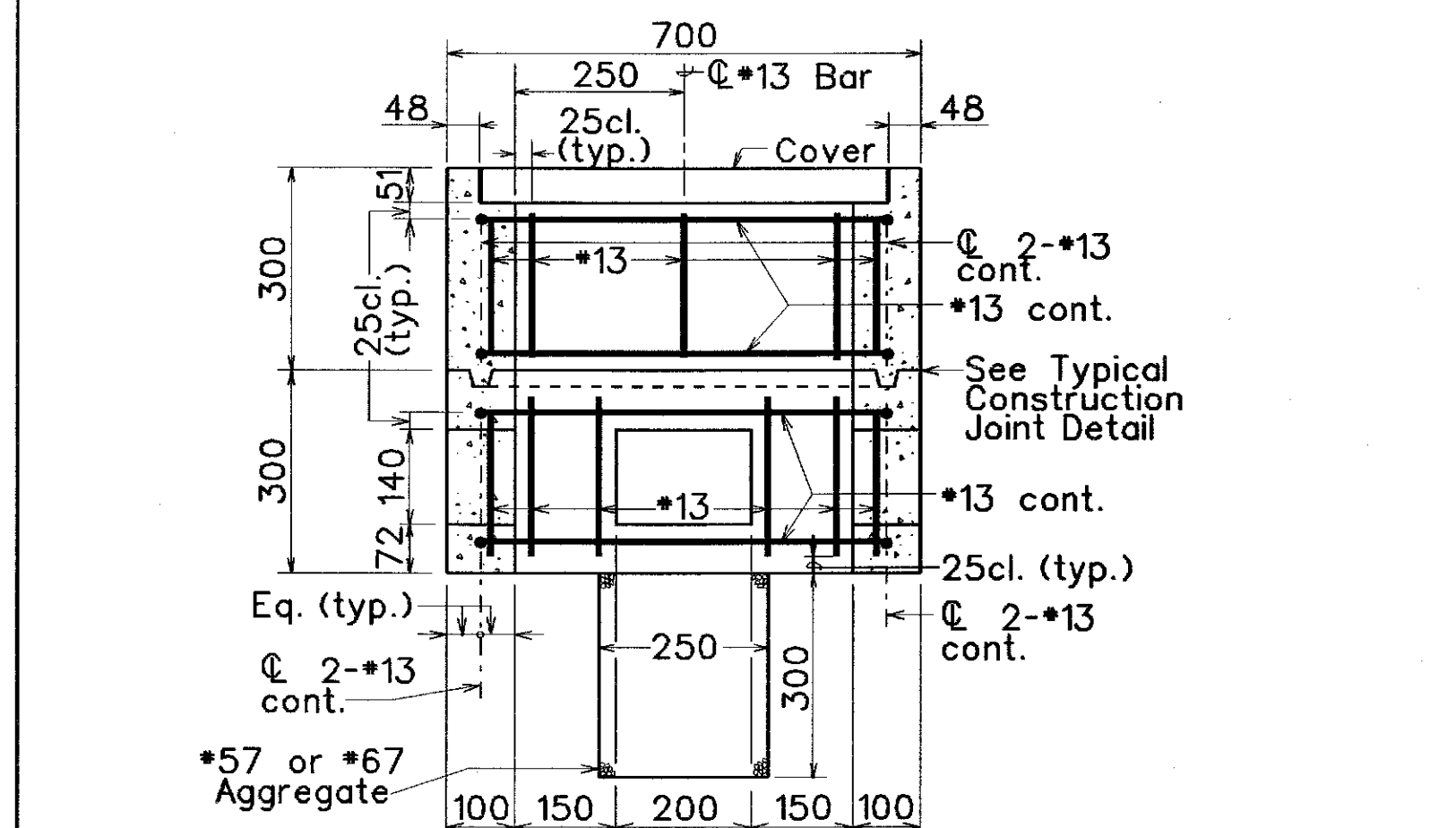


SECTION B-B

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

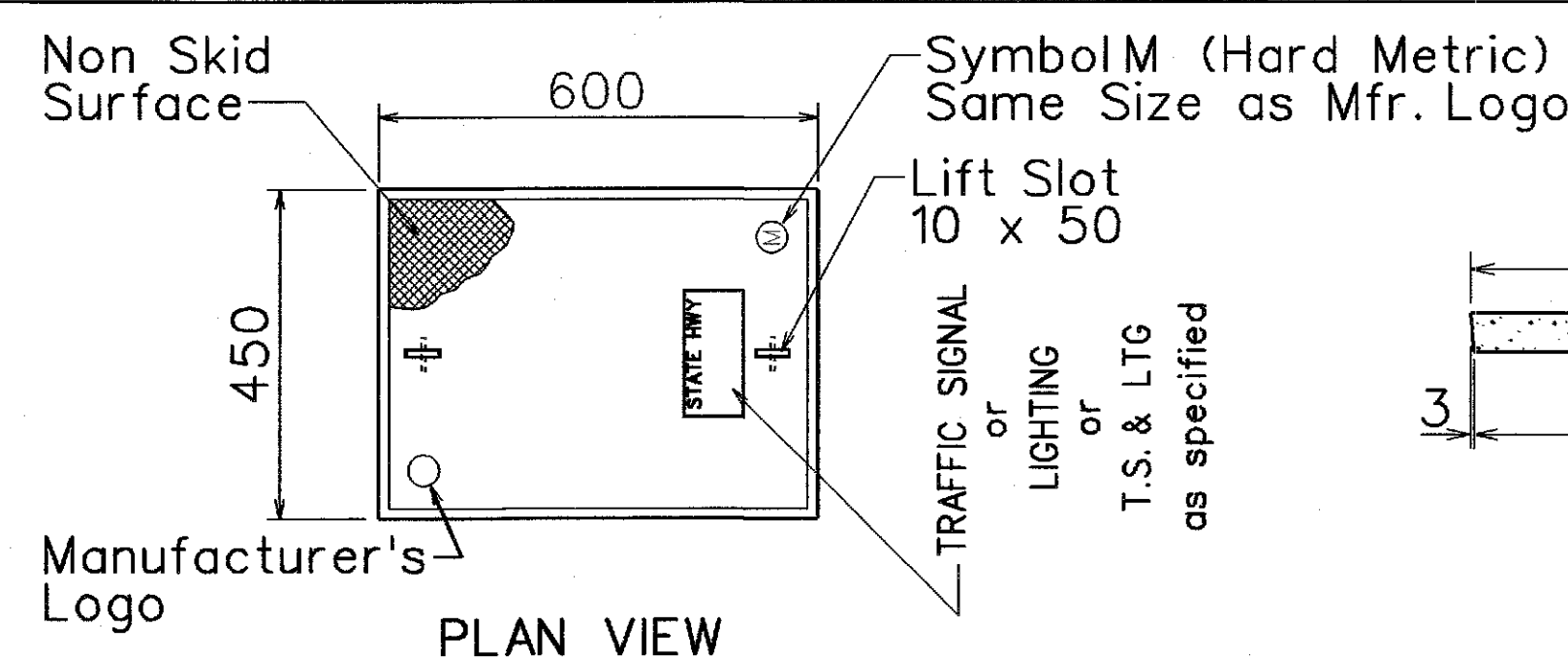


SECTION A-A



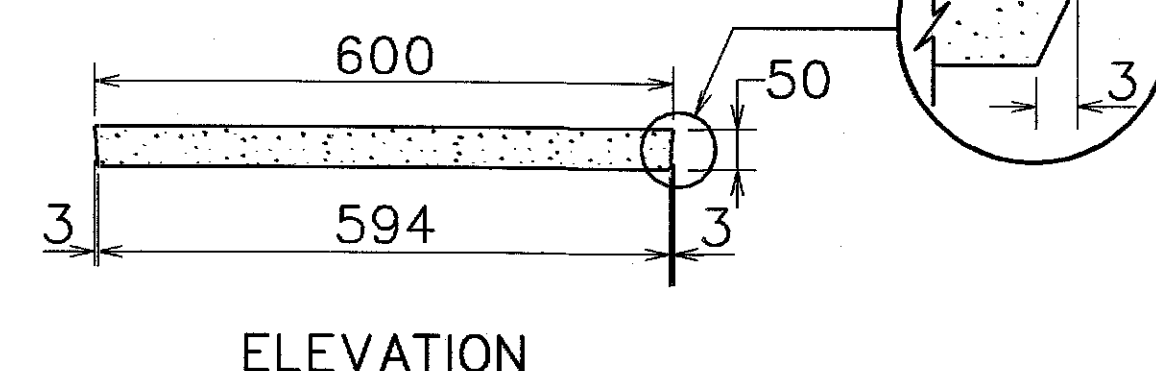
SECTION B-B

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

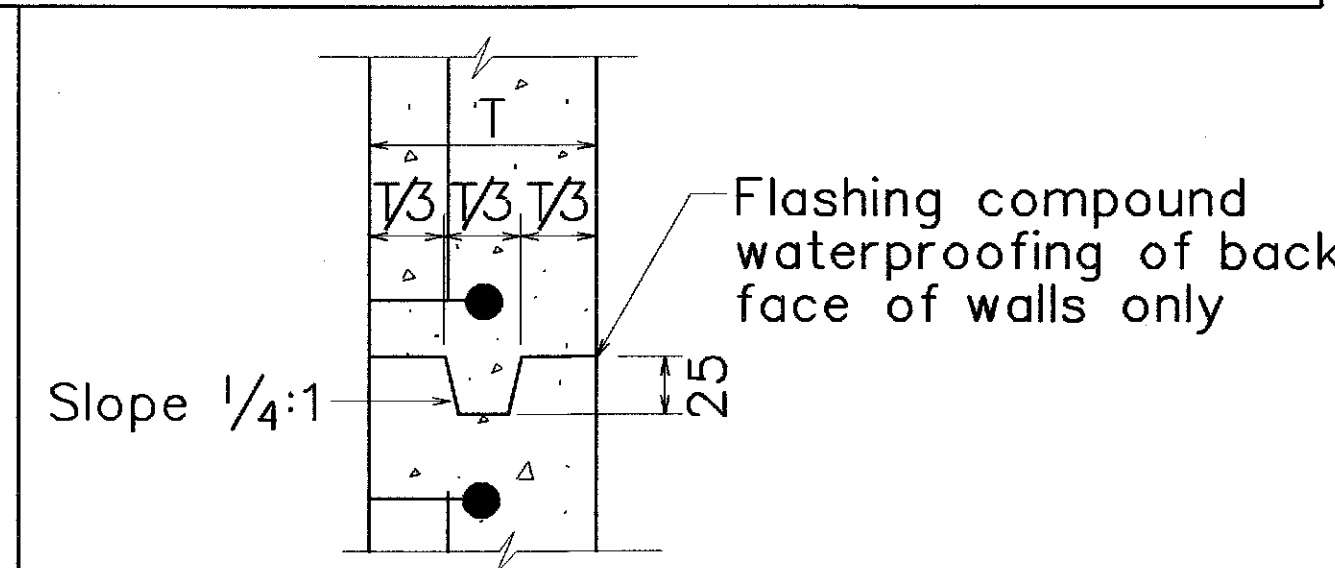


PLAN VIEW

POLYMER CONCRETE COVER



ELEVATION



TYPICAL CONSTRUCTION
JOINT DETAIL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

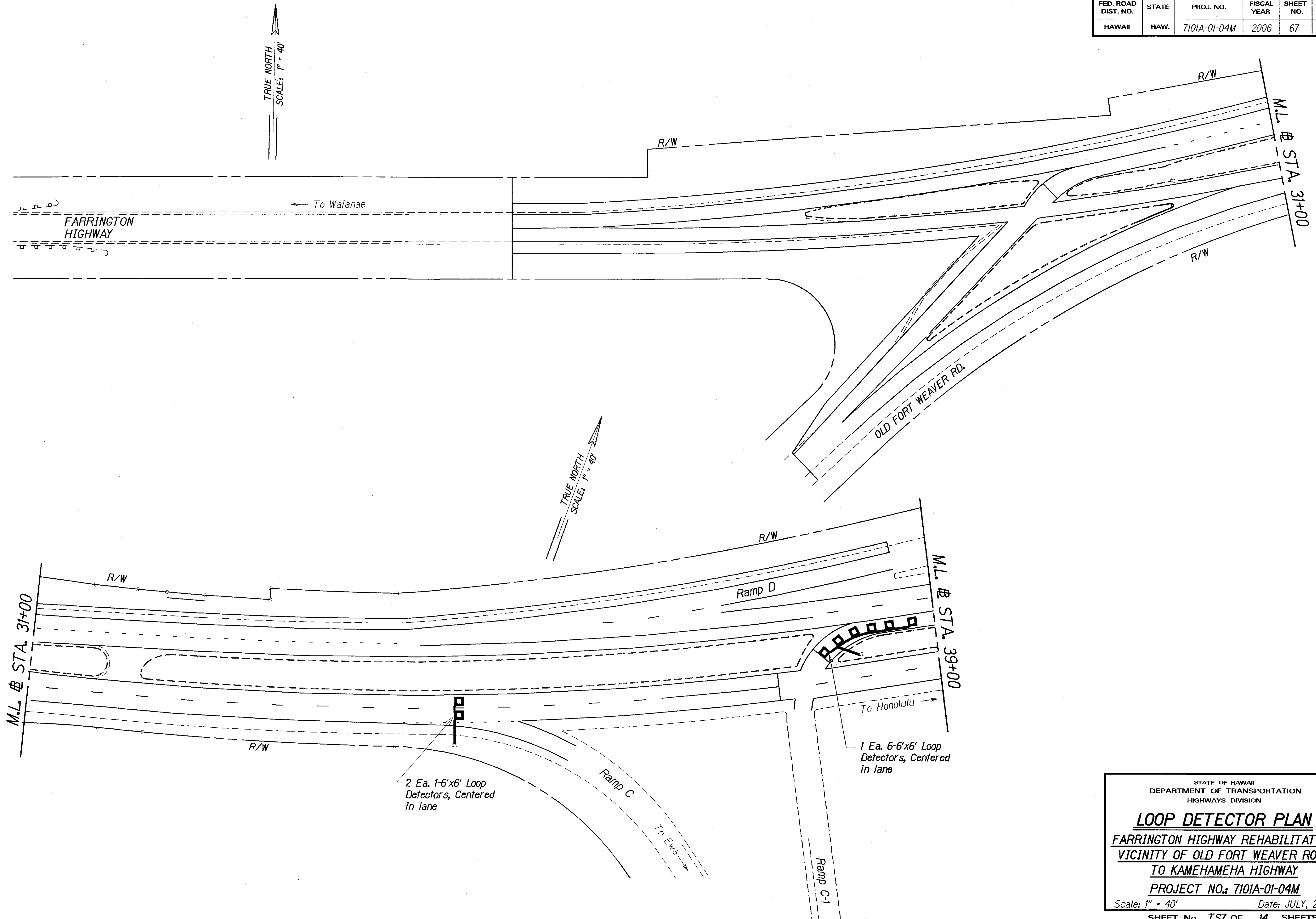
PULLBOX & COVER DETAILS

FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
Project No. 7101A-01-04M

Scale: As Shown Date: July 2005

SHEET No. 756 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	67	74

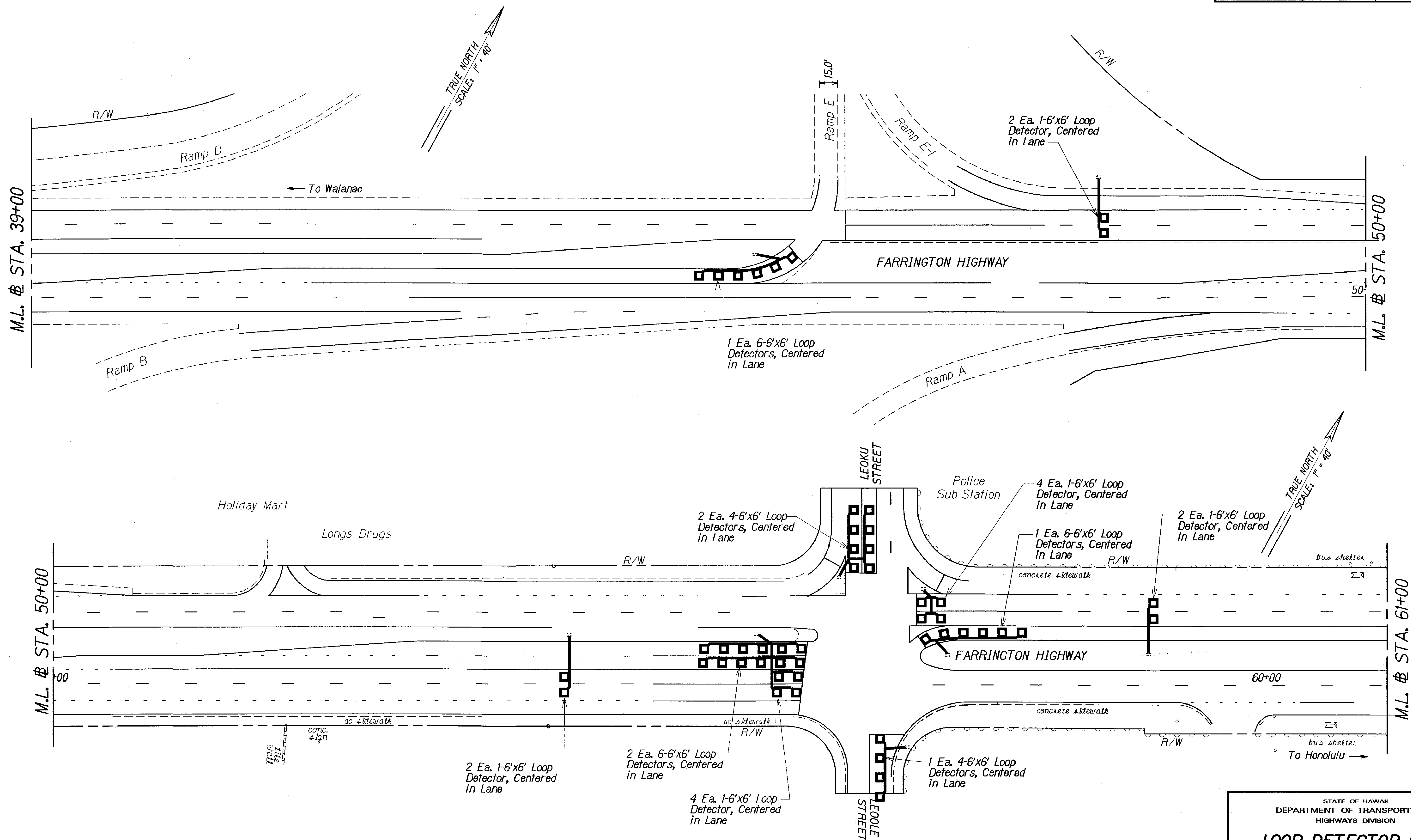


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	9/20/02
1027091	ENGINEER	
1027091	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR PLAN
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M
Scale: 1" = 40' Date: JULY, 2005
SHEET No. TS7 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	68	74



ORIGINAL PLAN	DATE	9/20/02
DESIGNED BY	DATE	9/20/02
DRAWN BY	DATE	9/20/02
CHECKED BY	DATE	9/20/02
NOTED BY	DATE	9/20/02
QUANTITIES BY	DATE	9/20/02
CHECKED BY	DATE	9/20/02

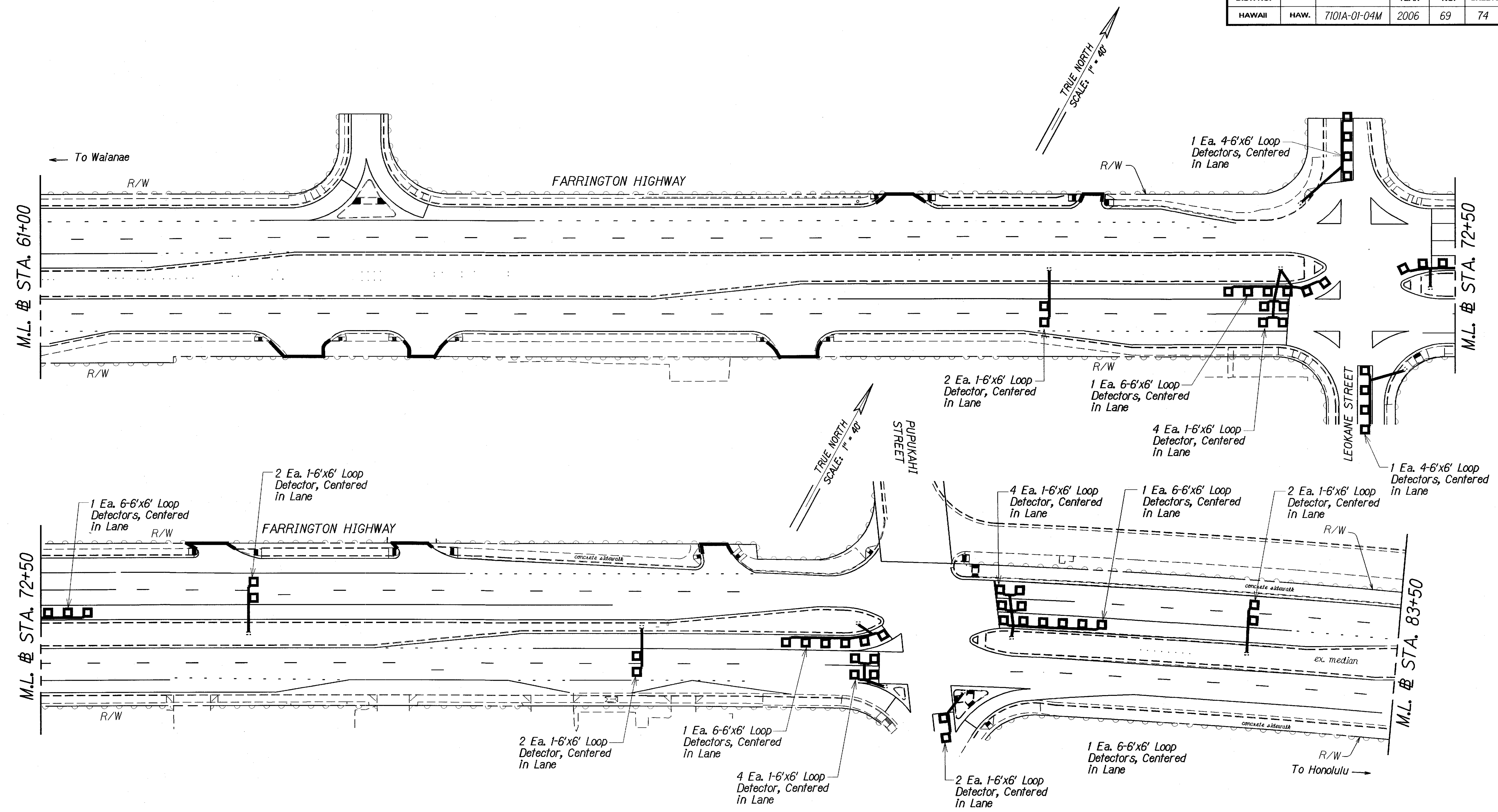
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR PLAN
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY

PROJECT NO.: 7101A-01-04M
Scale: 1" = 40' Date: JULY, 2005

SHEET No. TS8 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	69	74

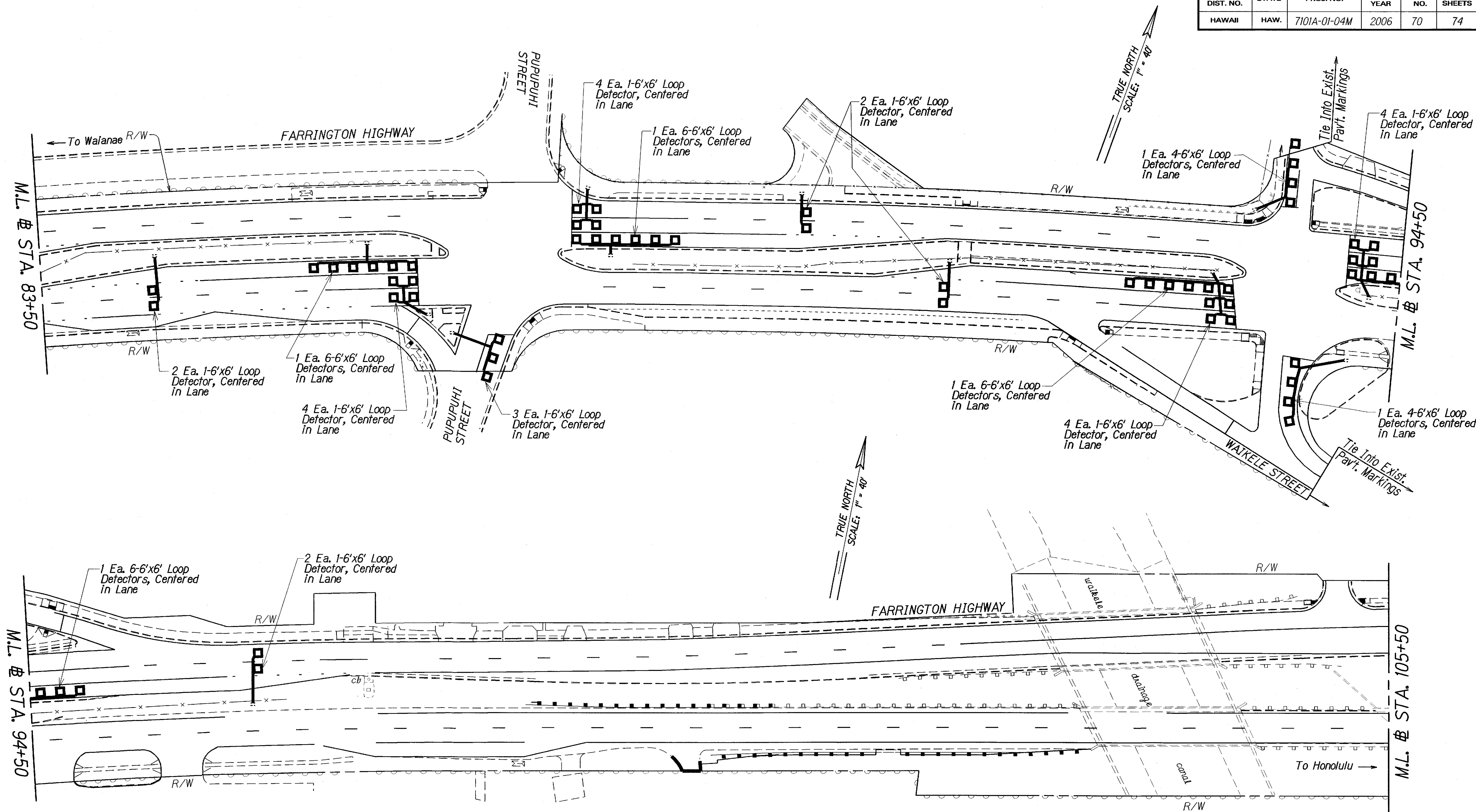


ORIGINAL PLAN	DATE	9/20/02
DRAWN BY	M. T. 12/10/01	
NOTED BY	9/20/02	
QUANTITIES BY	9/20/02	
CHECKED BY	9/20/02	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR PLAN
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M
Scale: 1" = 40' Date: July 2005
SHEET No. TS9 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	70	74

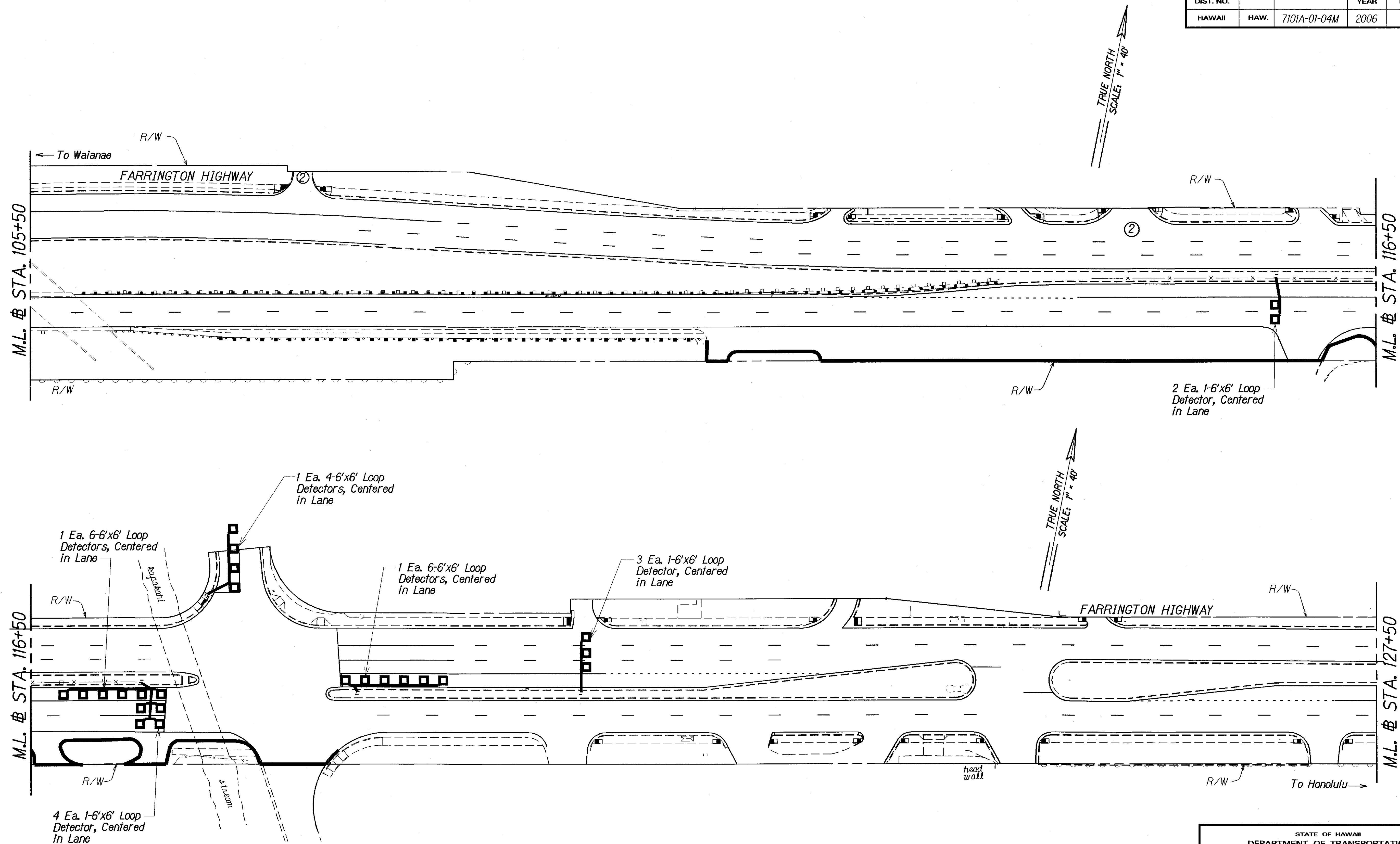


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
192/20/06	M. T. S. J. U. I.	9/20/02
192/20/06	TRACED BY	9/20/02
192/20/06	QUANTITIES BY	9/20/02
192/20/06	CHECKED BY	9/20/02

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR PLAN
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M
Scale: 1" = 40' Date: July 2005
SHEET No. TS10 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	71	74

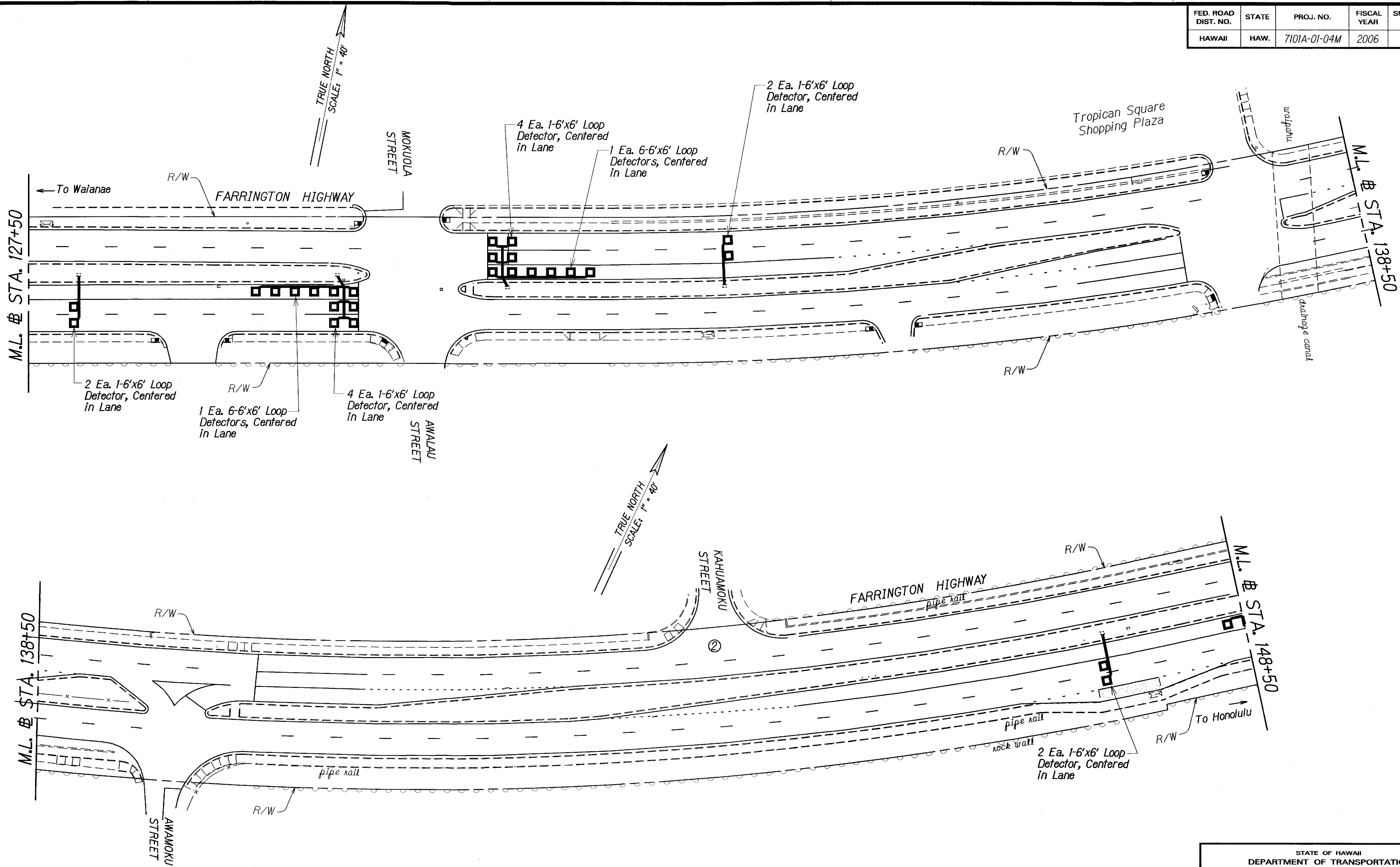


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
102/01	M. T. B. (U)	9/20/02
102/01	TRACED BY	
102/01	NOTED BY	
102/01	QUANTITIES BY	
102/01	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR PLAN
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M
Scale: 1" = 40' Date: July 2005
SHEET No. 71 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	72	74

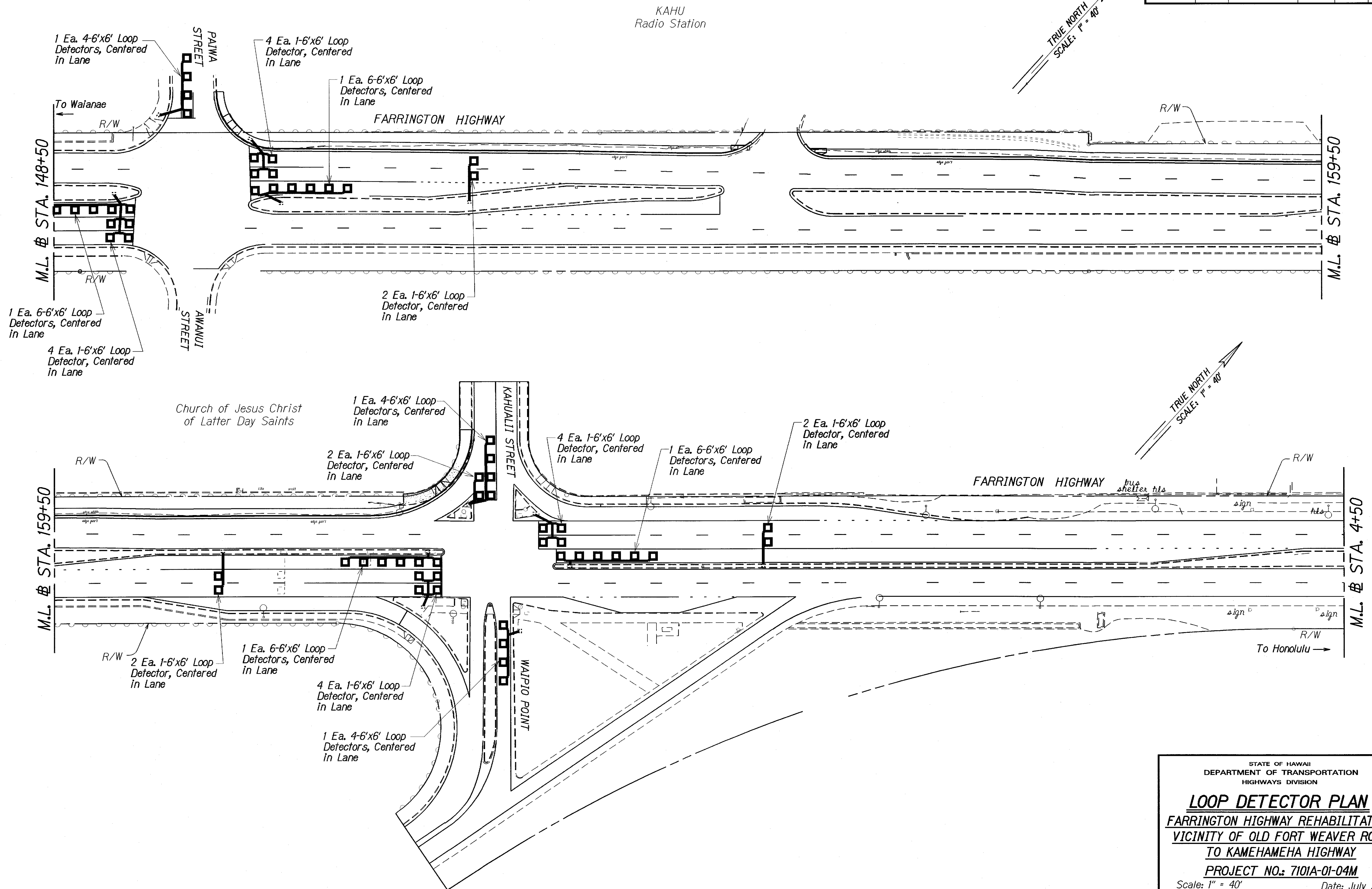


ORIGINAL PLAN	DATE	9/20/02
TRACED BY	DATE	9/20/02
NOTED BY	DATE	9/20/02
CHECKED BY	DATE	9/20/02

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR PLAN
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M
Scale: 1" = 40' Date: JULY 2005
SHEET No. TS12 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	73	74



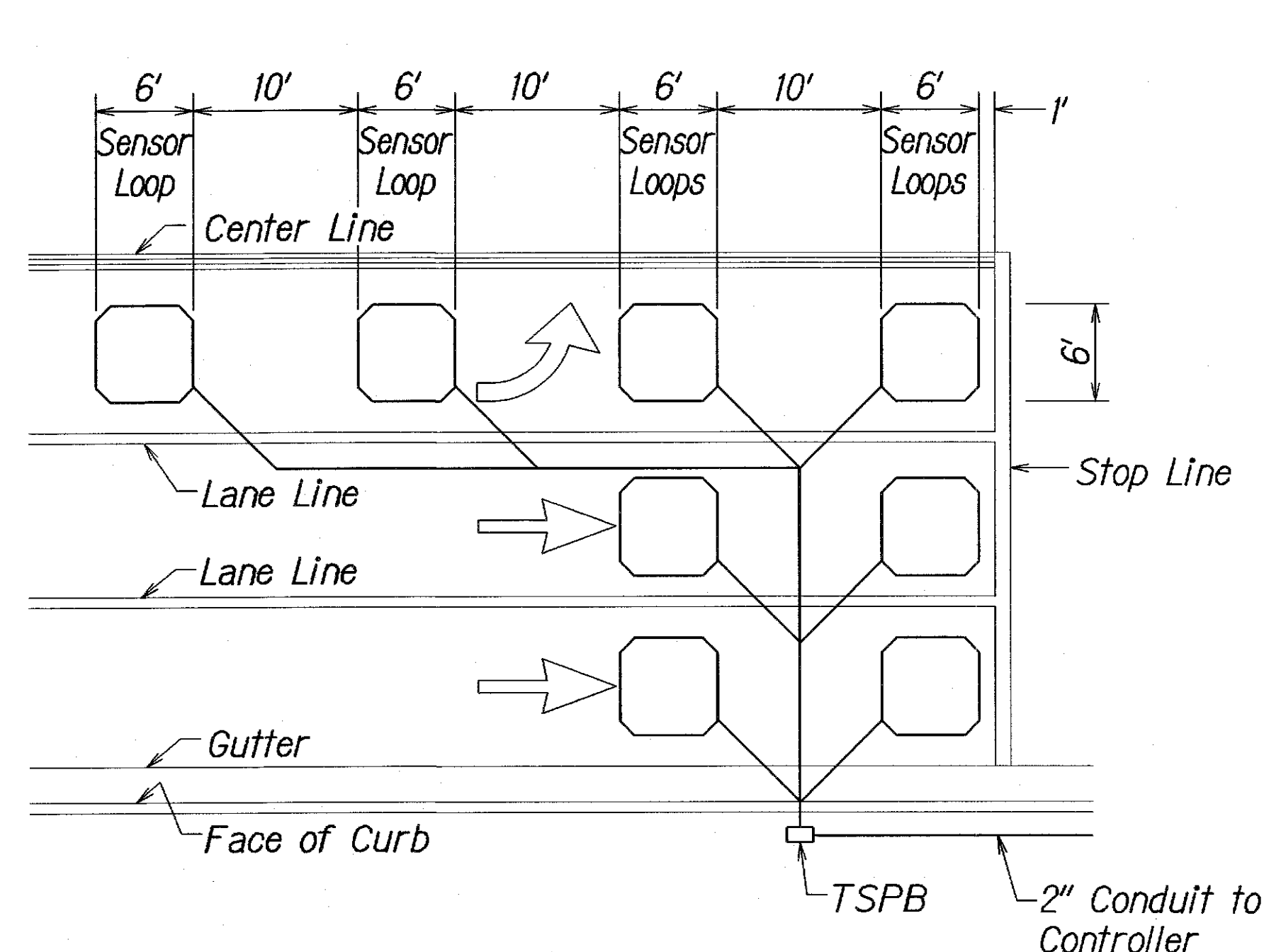
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
10/2/05	M. J. [illegible]	9/20/02
10/2/05	TRACED BY	9/20/02
10/2/05	QUANTITIES BY	
10/2/05	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR PLAN
FARRINGTON HIGHWAY REHABILITATION,
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
PROJECT NO.: 7101A-01-04M
Scale: 1" = 40' Date: July 2005

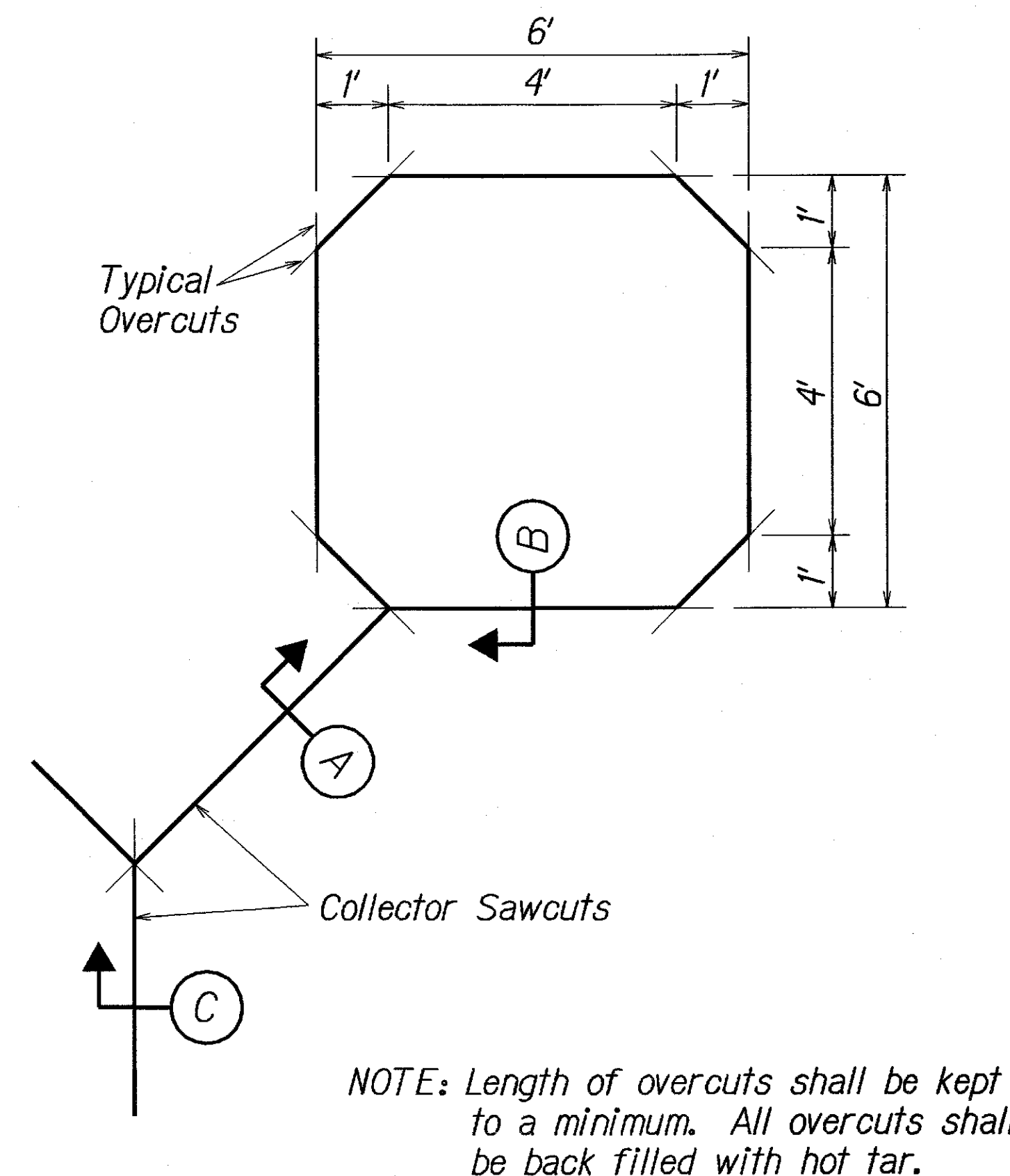
SHEET No. *TS13* OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7101A-01-04M	2006	74	74



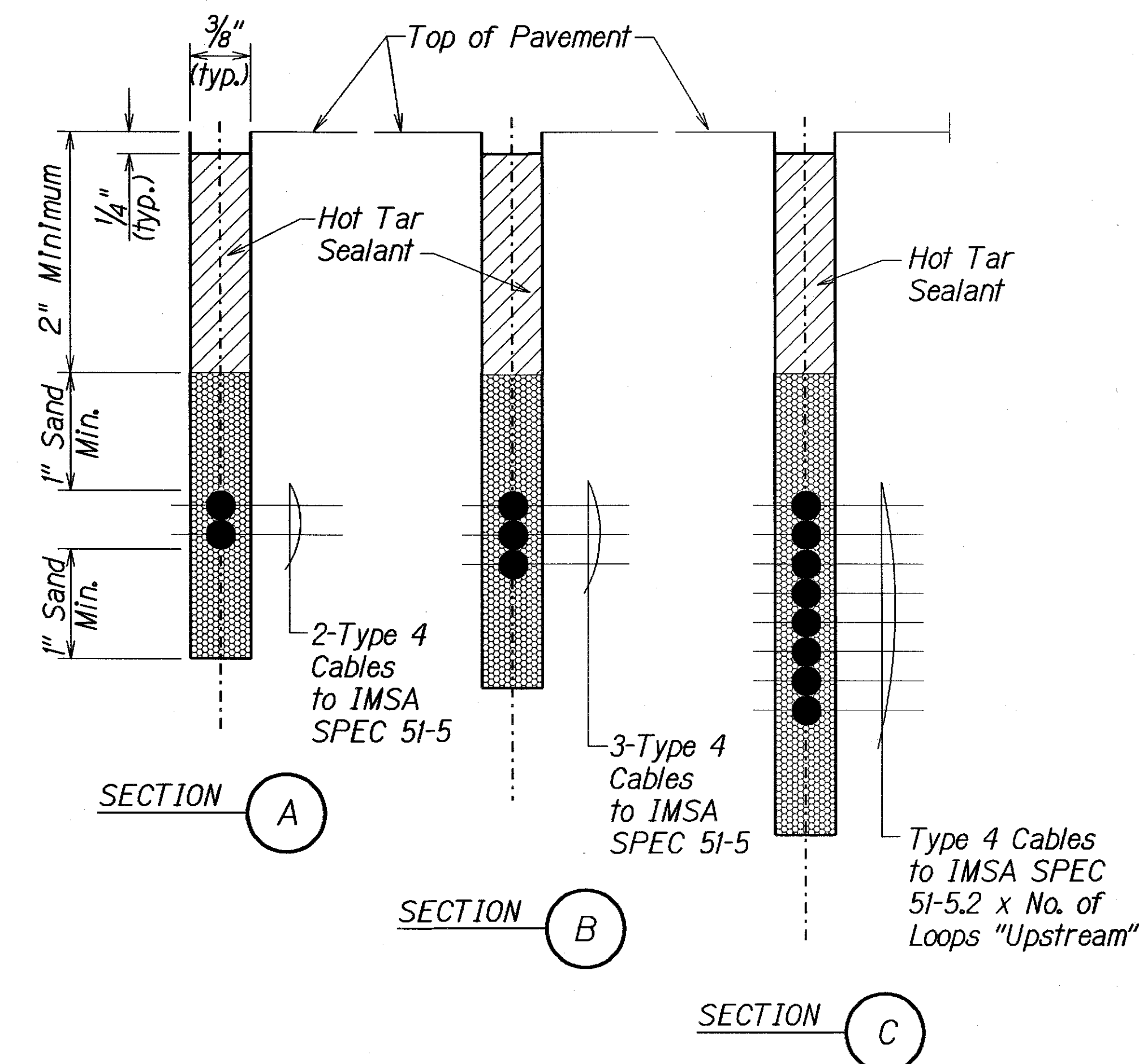
- NOTES:
- Center sensor loops in lanes.
 - Collector cables shall be twisted 2 turns per foot.
 - Number of loops and locations vary. See project plans.
 - Number and locations of collector sawcuts may be varied in the field to suit.

TYPICAL SENSOR LOOP LAYOUT

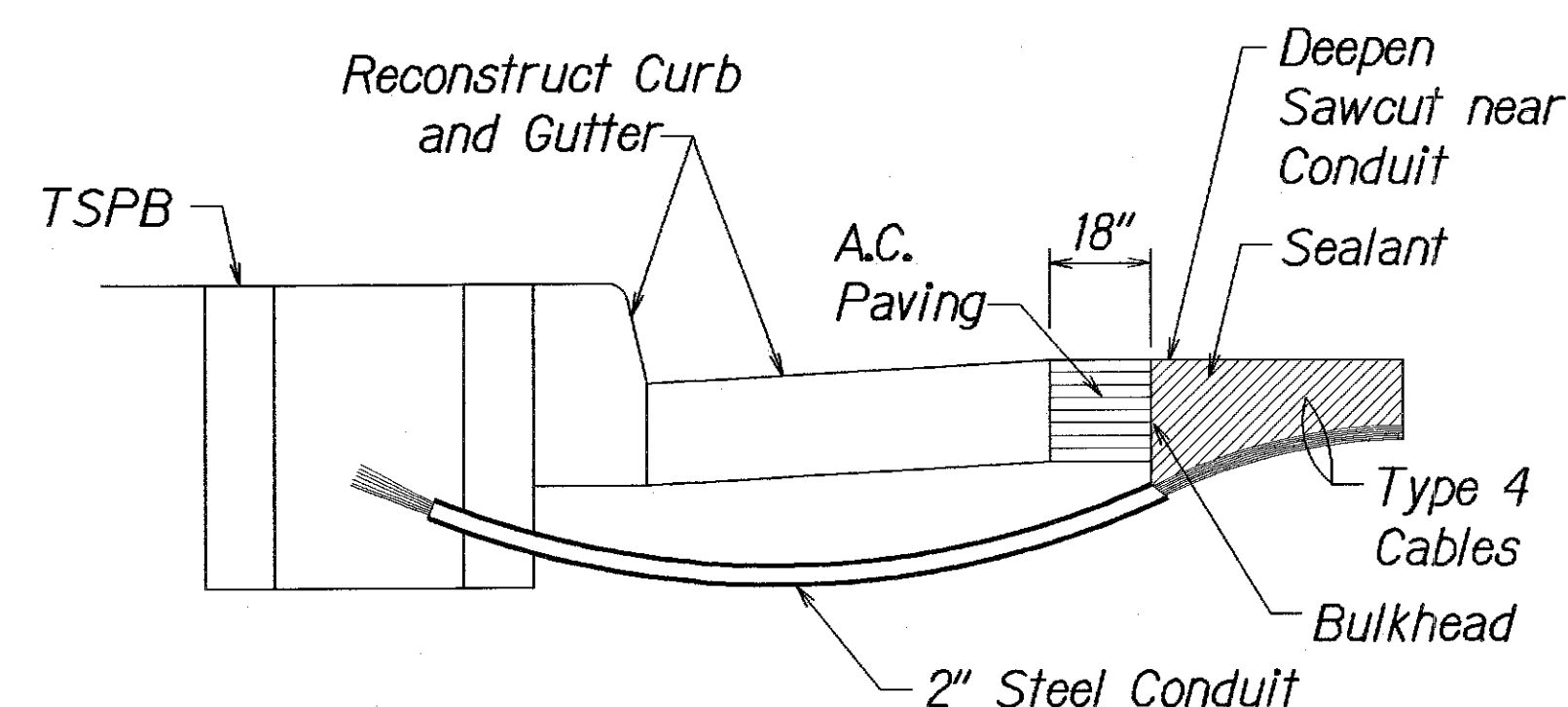


NOTE: Length of overcuts shall be kept to a minimum. All overcuts shall be back filled with hot tar.

TYPICAL SENSOR LOOP SAWCUT DETAIL



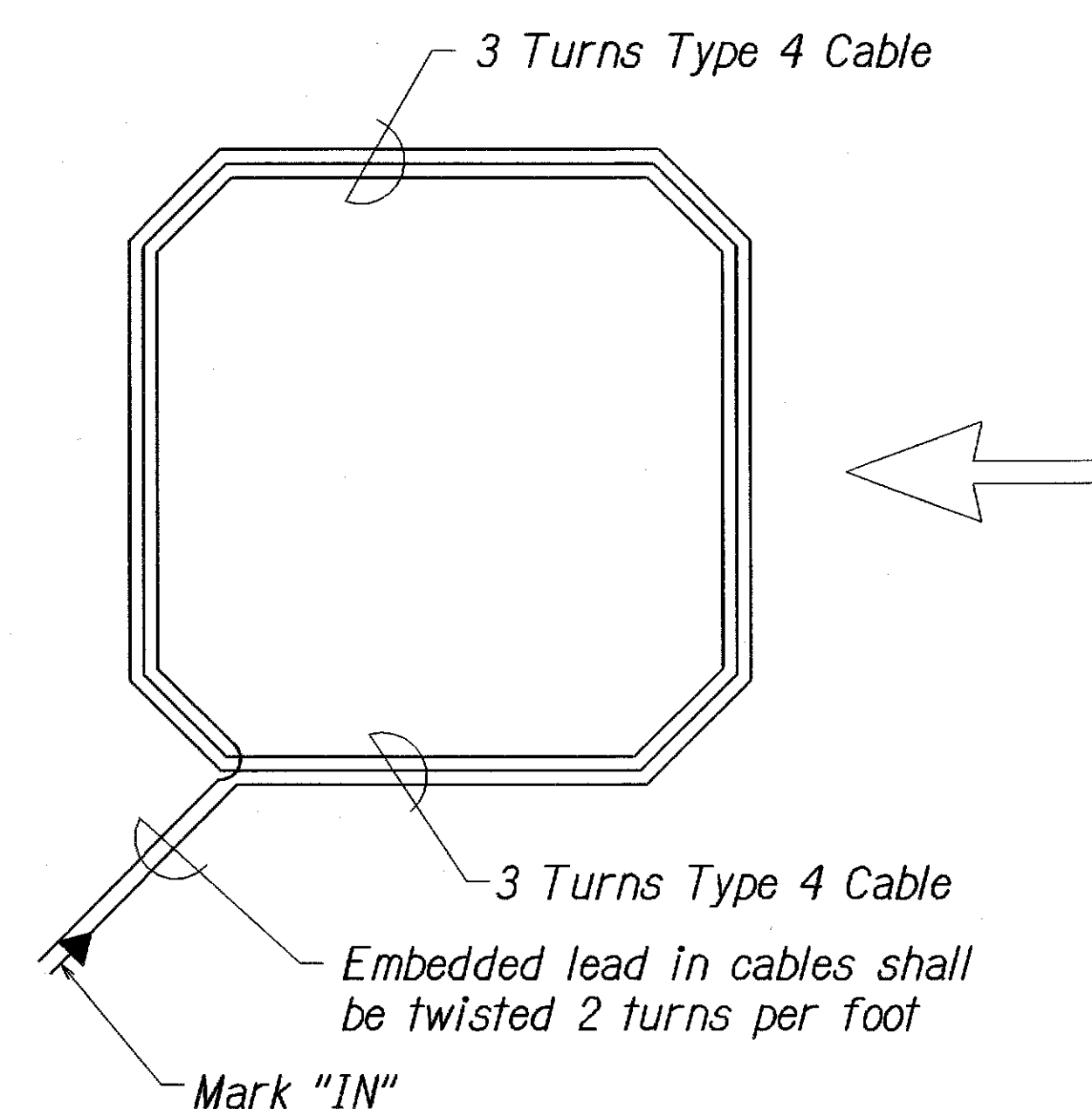
TYPICAL SECTION THROUGH SENSOR LOOP



NOTES ON CONSTRUCTION AT END OF SAWCUT

- Seal roadway end of conduit after installation of conductors.
- Install bulkhead across conduit trench.
- Place hot tar in sawcut.
- Backfill over conduit with new AC.
- Reconstruct curb and gutter as required.

DETAIL OF SENSOR LOOP INSTALLATION AT EDGE OF ROADWAY



TYPICAL SENSOR LOOP WIRING DIAGRAM

ORIGINAL PLAN	DATE
NOTED BY	DATE
CHECKED BY	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
IN CHARGE	DATE
APPROVED BY	DATE
REVISIONS	DATE
1. 12/1/05	
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74. 12/1/05	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR DETAILS

FARRINGTON HIGHWAY REHABILITATION
VICINITY OF OLD FORT WEAVER ROAD
TO KAMEHAMEHA HIGHWAY
Project No. 7101A-01-04M

Scale: As Shown Date: July 2005

SHEET No. **TS14** OF **14** SHEETS