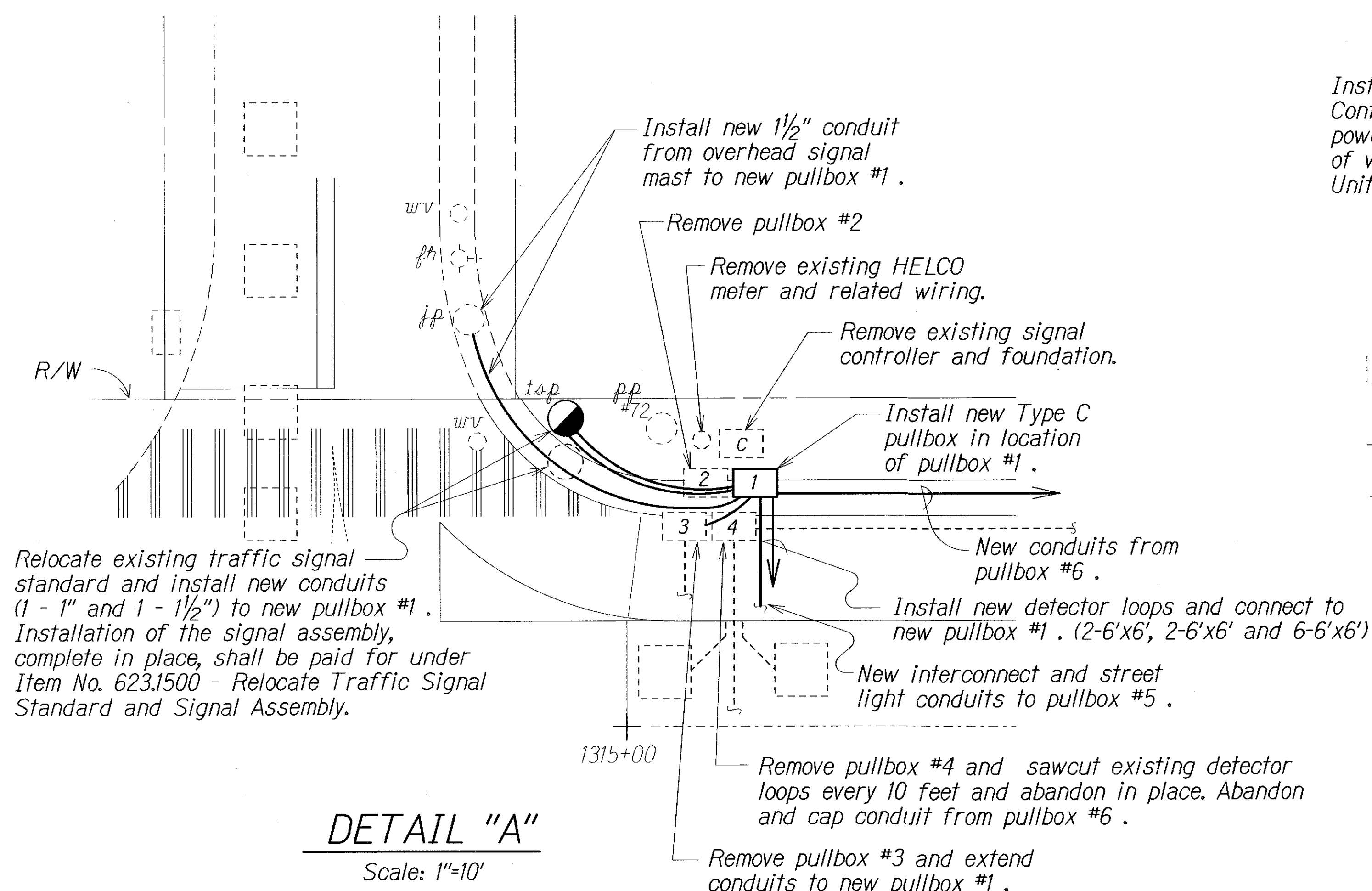
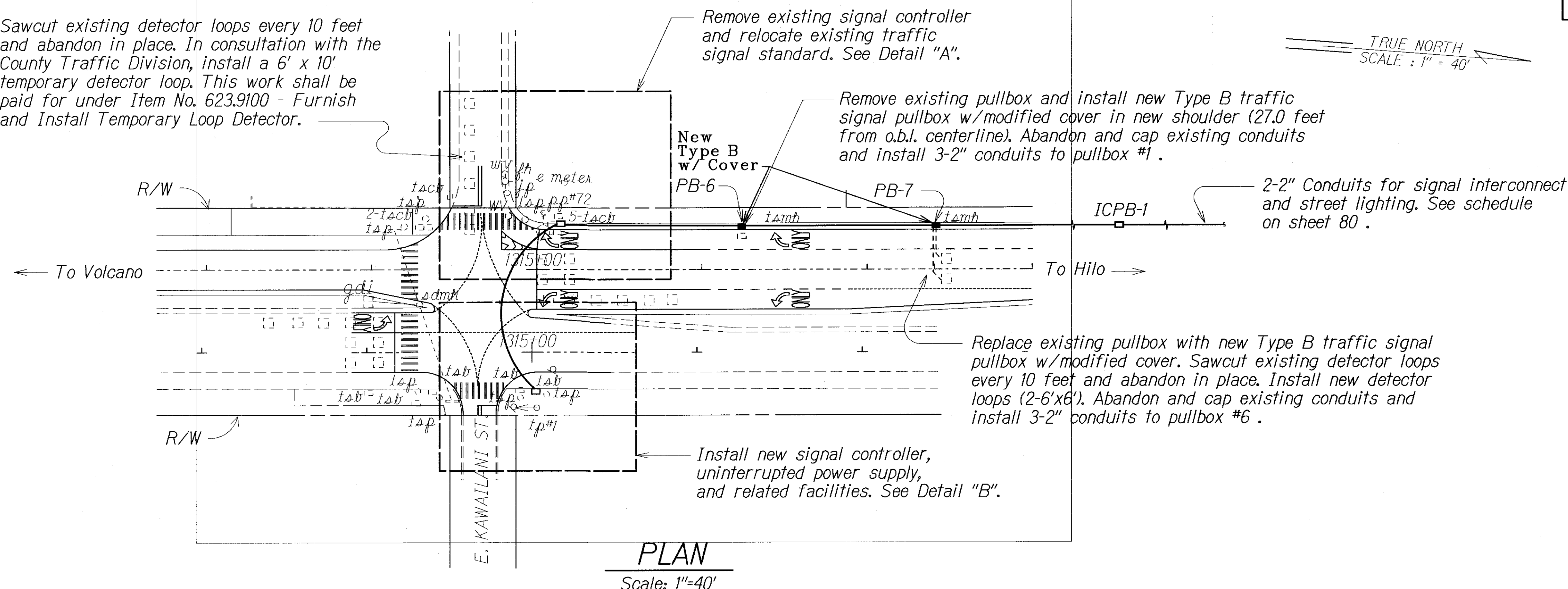


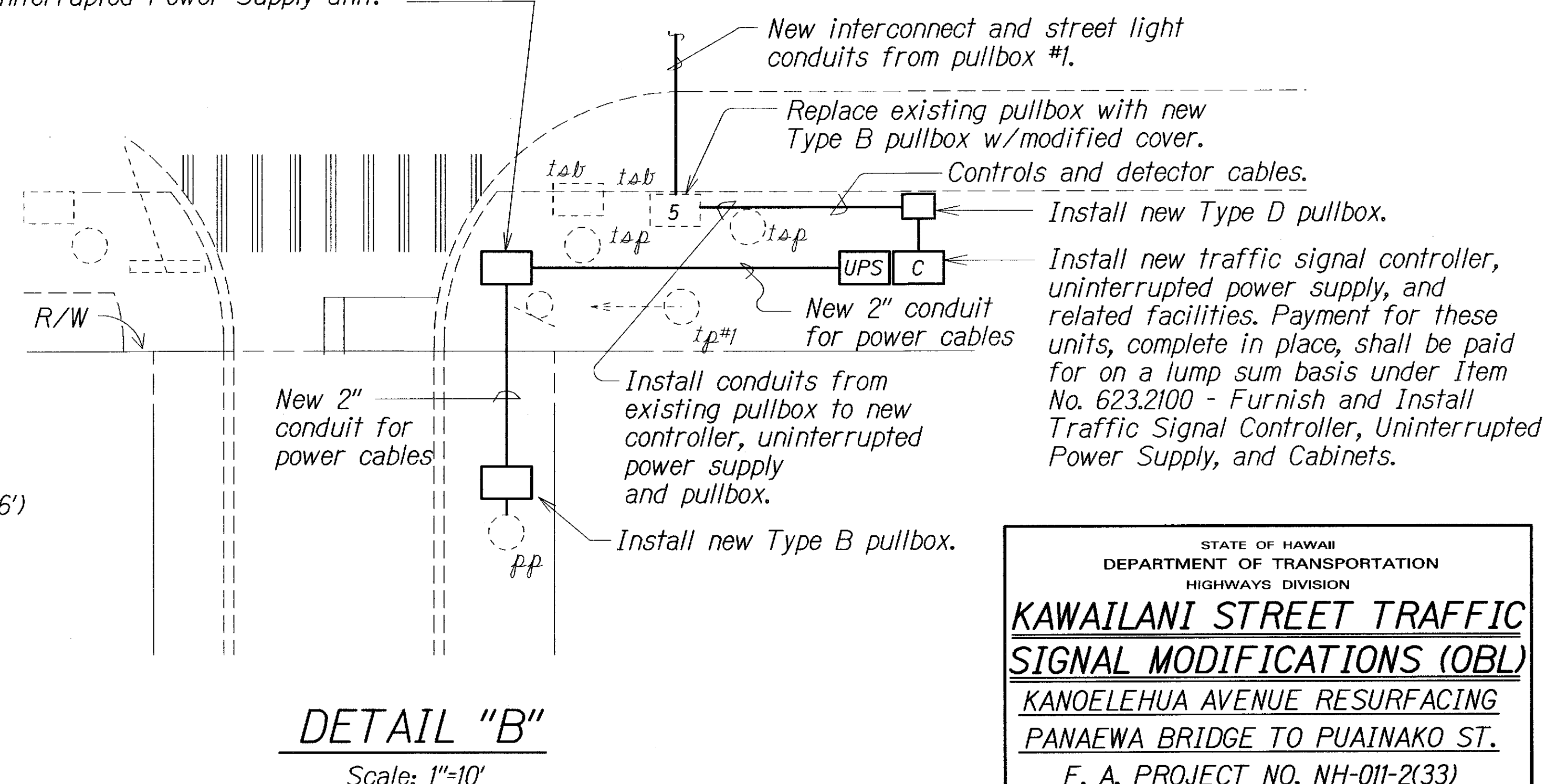
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-011-2(33)	1996	76	102

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

Sawcut existing detector loops every 10 feet and abandon in place. In consultation with the County Traffic Division, install a 6' x 10' temporary detector loop. This work shall be paid for under Item No. 623.9100 - Furnish and Install Temporary Loop Detector.



Install new Type B pullbox w/modified cover for power connection. Contractor shall coordinate and arrange for power connection and power disconnection from the existing meter with HELCO. Coordination of work with HELCO shall be considered incidental to installation of Uninterrupted Power Supply unit.

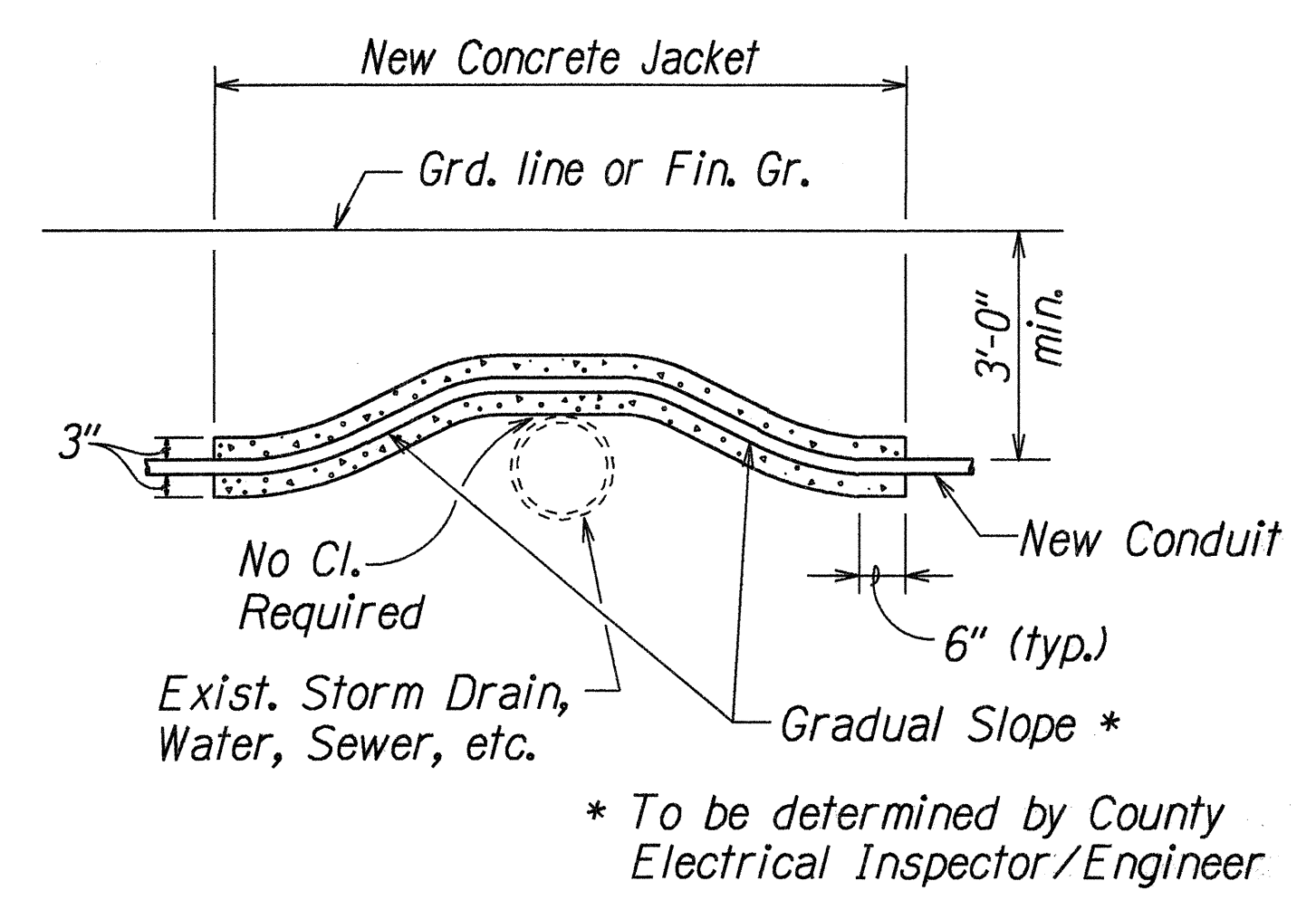
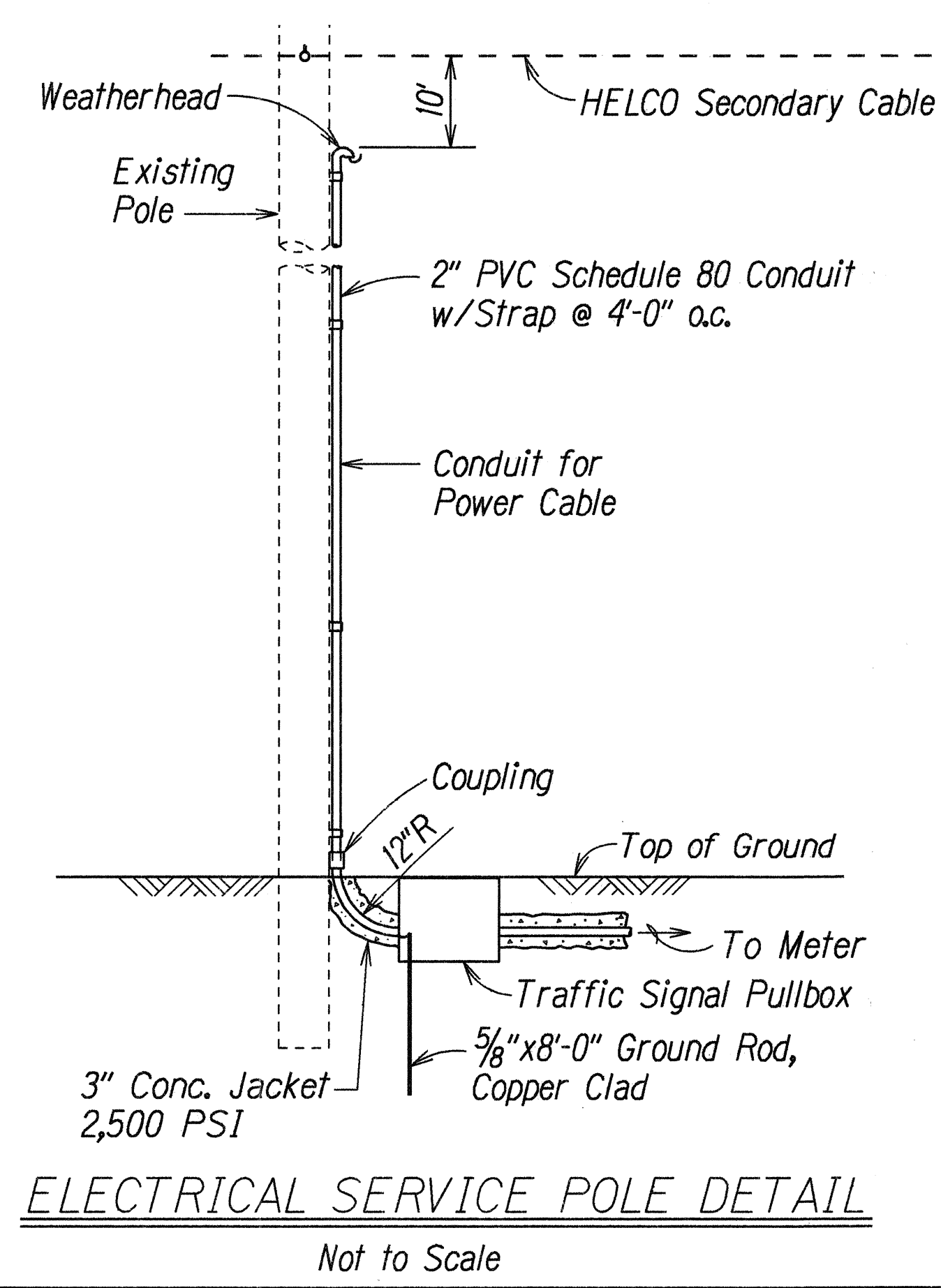
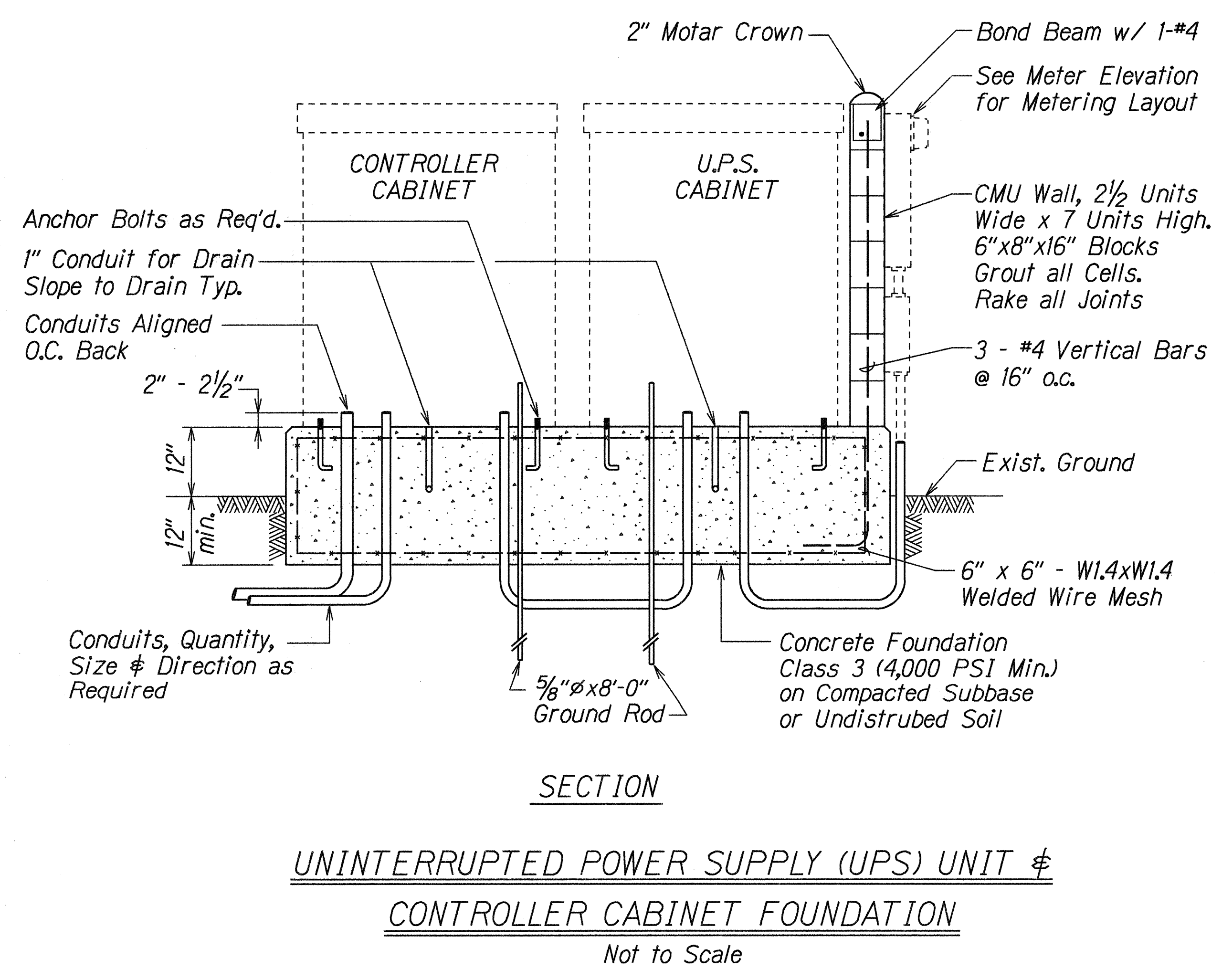
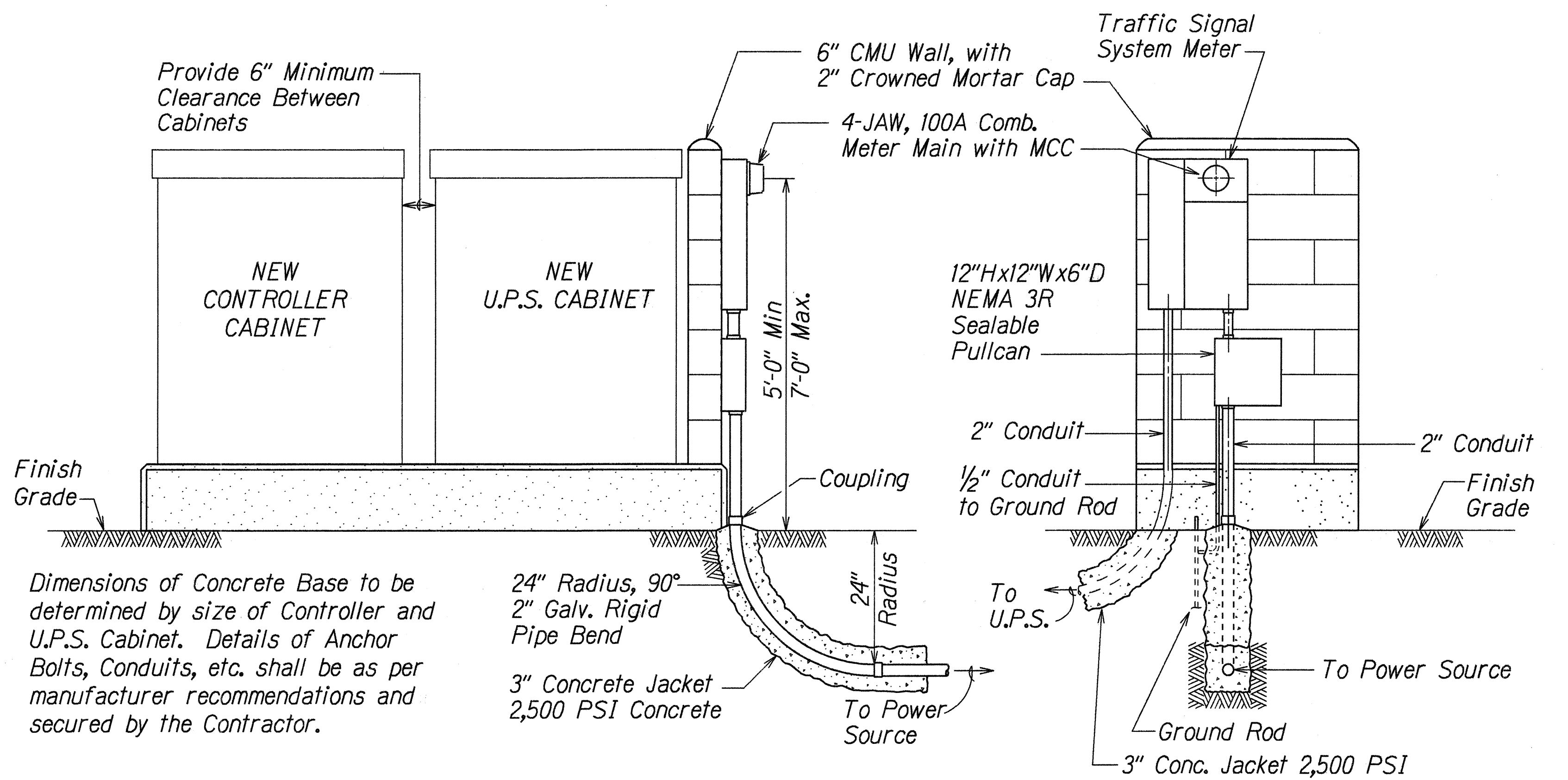
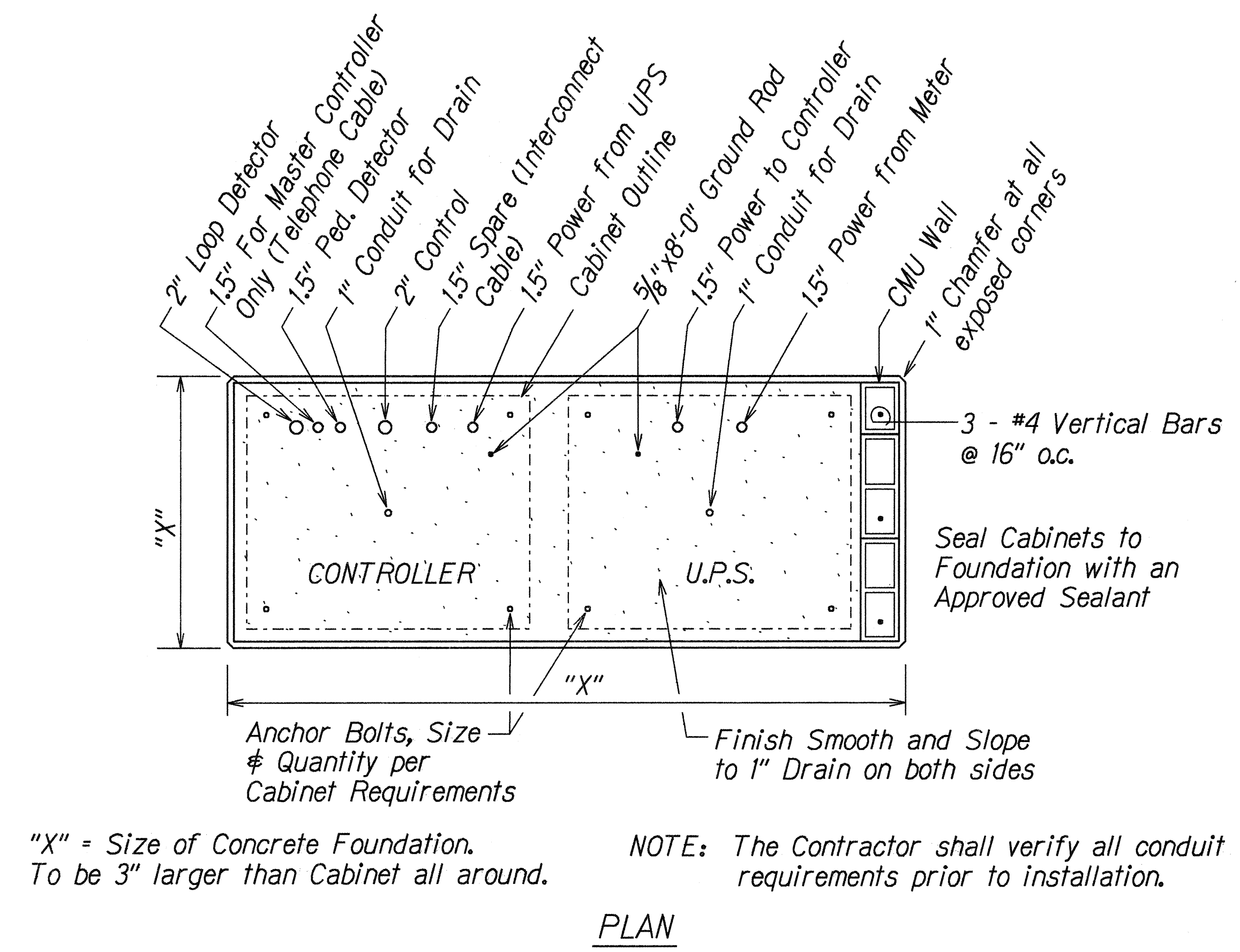


ORIGINAL PLAN	DATE 4/96
DESIGNED BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
KAWAILANI STREET TRAFFIC SIGNAL MODIFICATIONS (OBL)	
KANOELEHUA AVENUE RESURFACING PANAWEA BRIDGE TO PUAINAKO ST.	
F. A. PROJECT NO. NH-011-2(33)	
Scale: As Shown	Date: April, 1996
SHEET No. 1 OF 4 SHEETS	

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-011-2(33)	1996	77	102



DATE	7/96
SURVEY PLOTTED BY	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
ORIGINAL	
PLAN	
NO.	
REVISION	

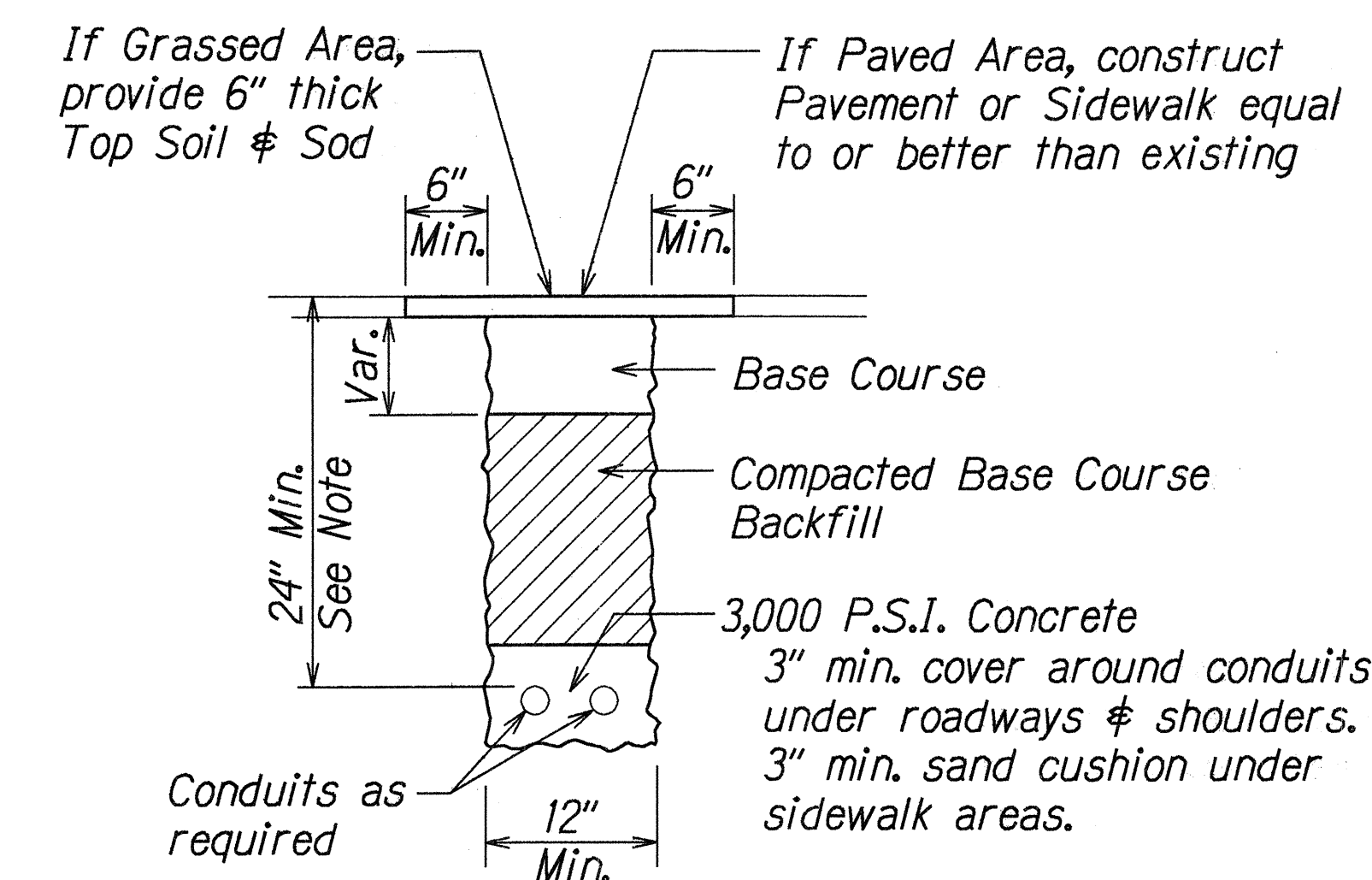
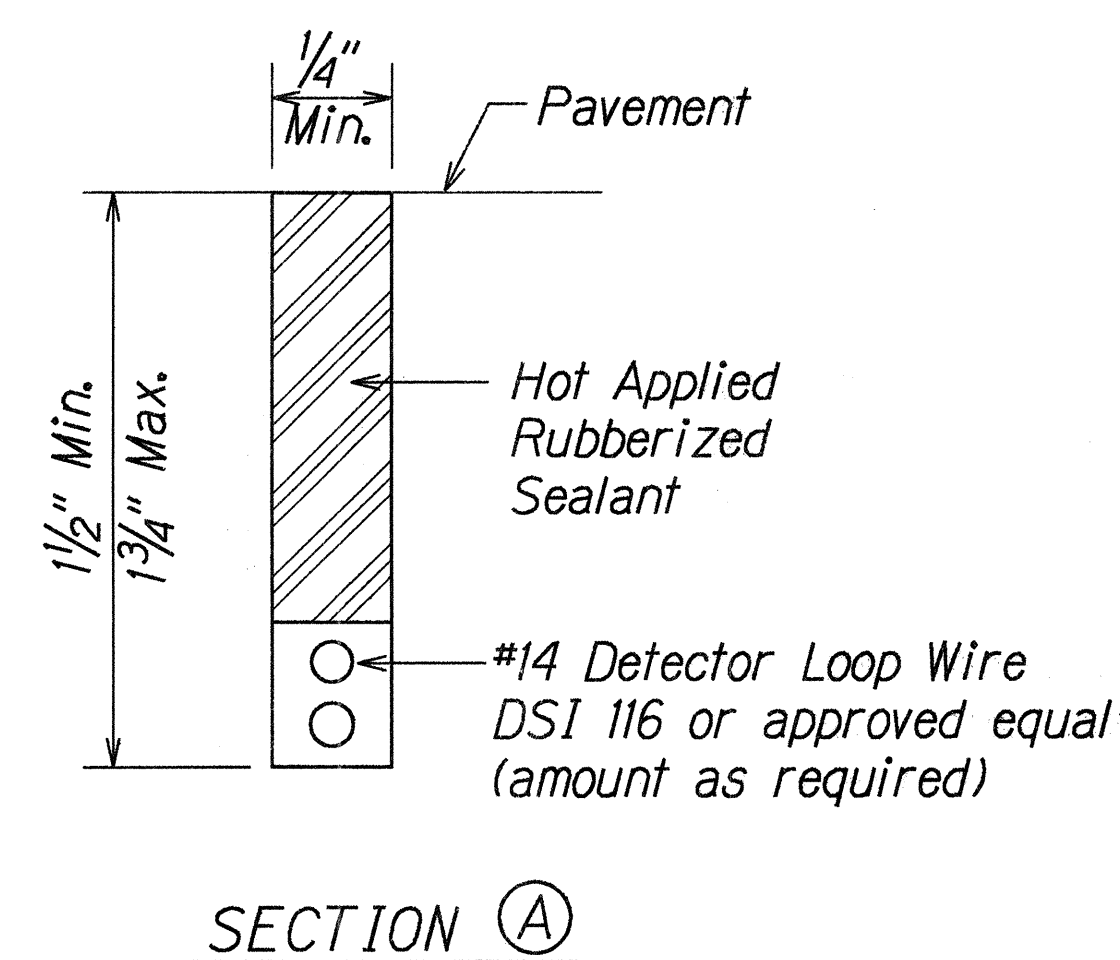
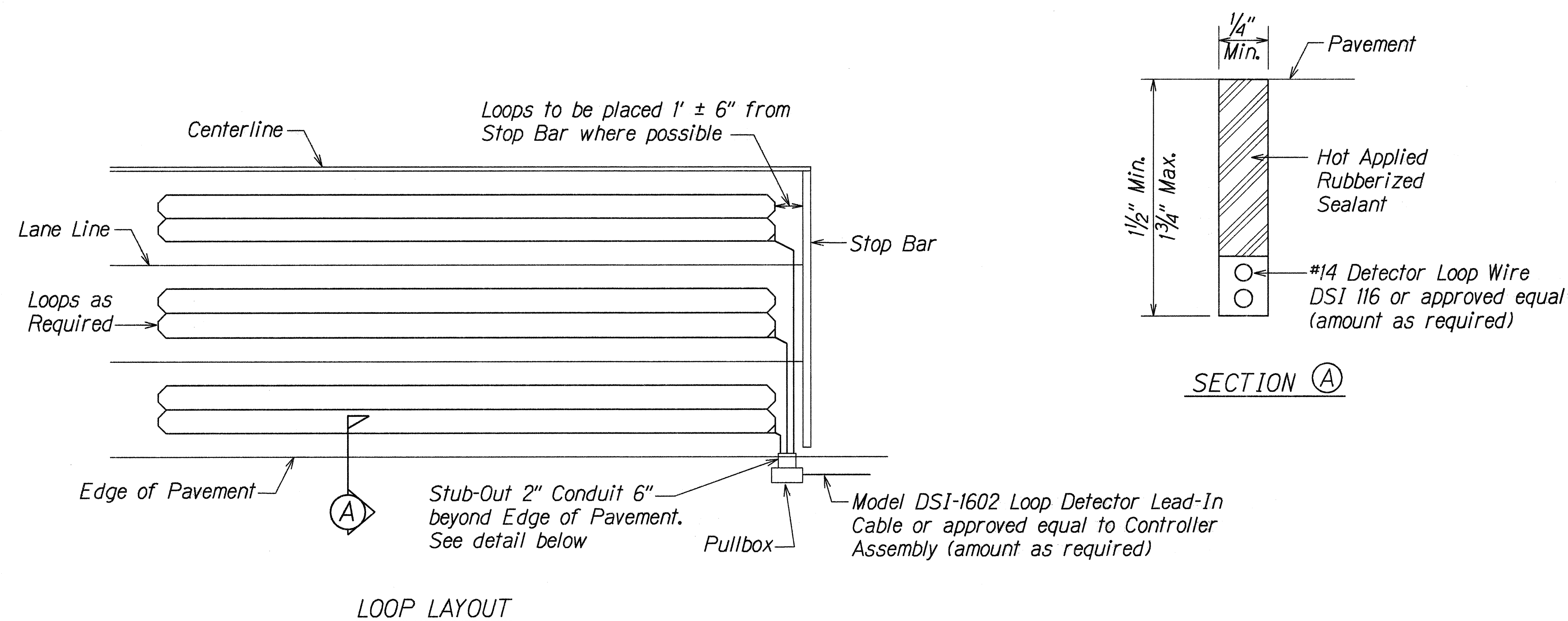
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL SERVICE DETAIL

KAOELEHUA AVENUE RESURFACING
PANAWEA BRIDGE TO PUAIAKO ST.
F. A. Project No. NH-011-2(33)

Scale: As Noted Date: April, 1996
SHEET No. 2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-011-2(33)	1996	78	102



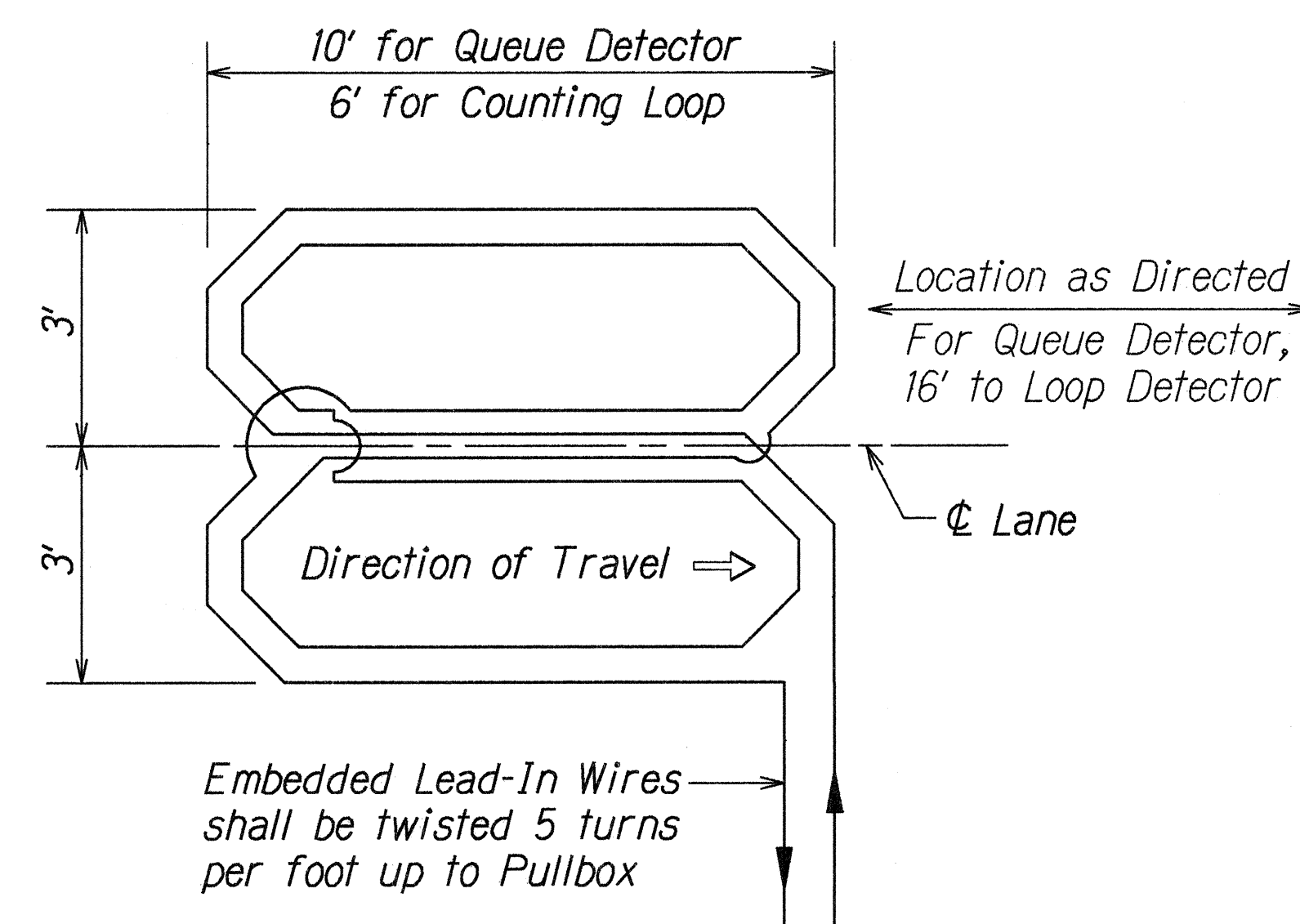
NOTES

1. All Conduits shall be PVC Schedule 40 or Schedule 80
2. Indicated bury depth shall be adjusted in the field to clear and avoid interferences with all existing buried utility.

DUCT DETAILS

NOTES

1. If abandoned in place, all existing loop detectors shall be saw cut completely through every 10' to prevent inductive coupling.
2. All loop detector lead in cables shall be identified in the cabinet
3. When hot sealants are used, only polyester insulation with a minimum 400° melting point will be permitted.



WIRING DIAGRAM - QUEUE/COUNTING DETECTORS

LOOP DETECTOR DETAILS

ORIGINAL PLAN	DATE
DESIGNED BY	4/96
CHECKED BY	
APPROVED BY	
NOTED BY	
QUANTITY BY	
REVISIONS	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

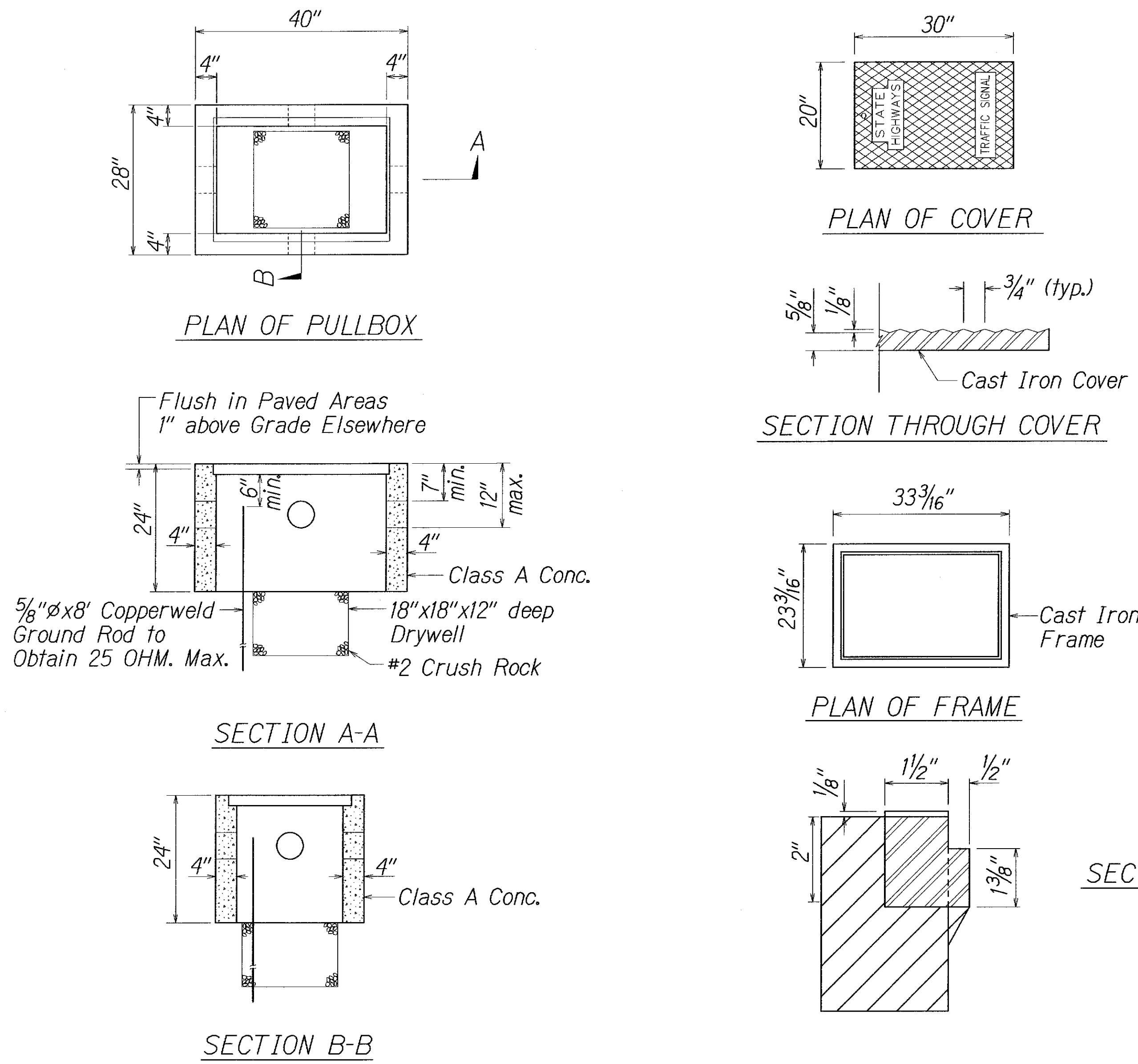
**LOOP DETECTORS &
DUCT DETAILS**

KANOELEHUA AVENUE RESURFACING
PANAewa BRIDGE TO PUAINAKO ST.
F. A. Project No. NH-011-2(33)

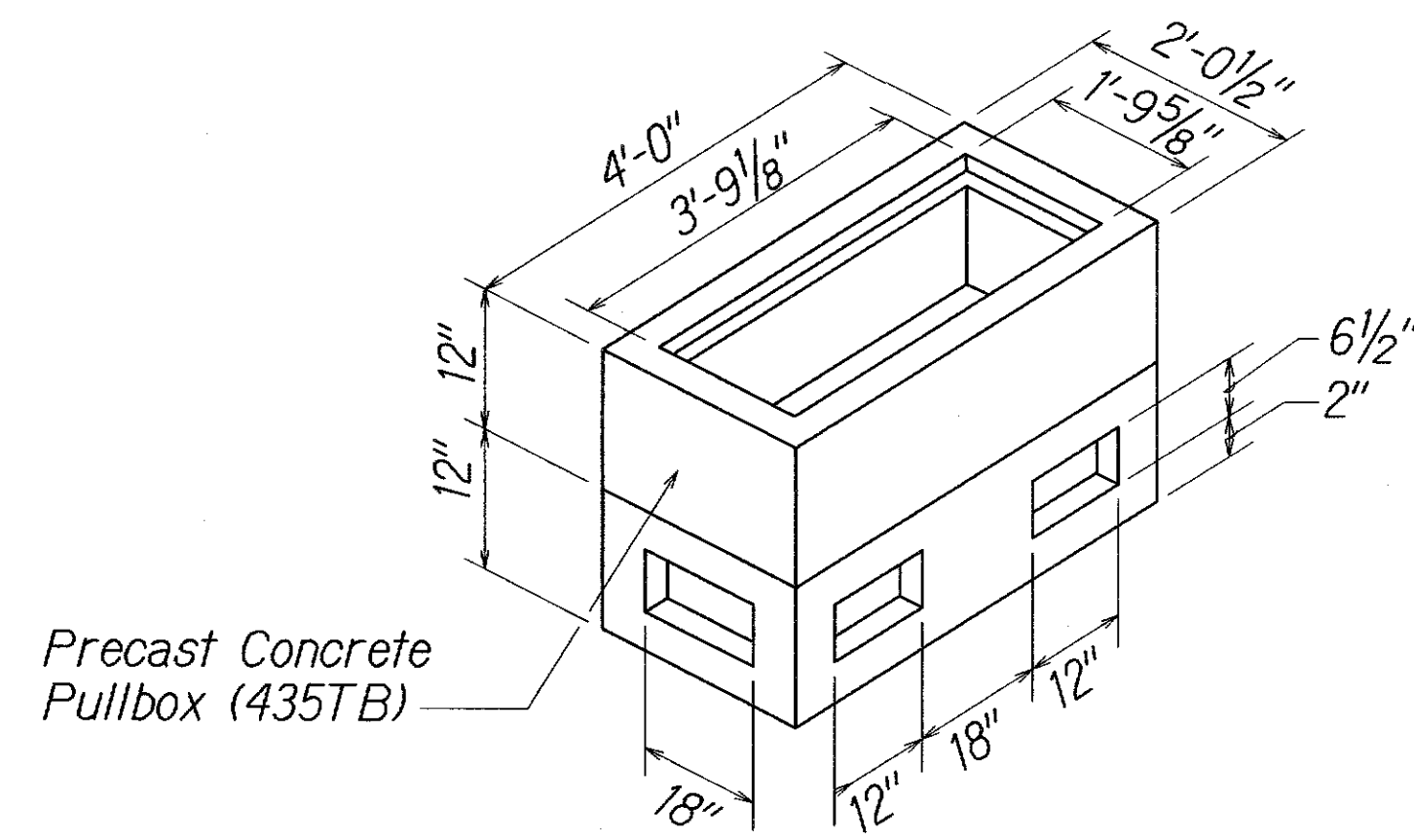
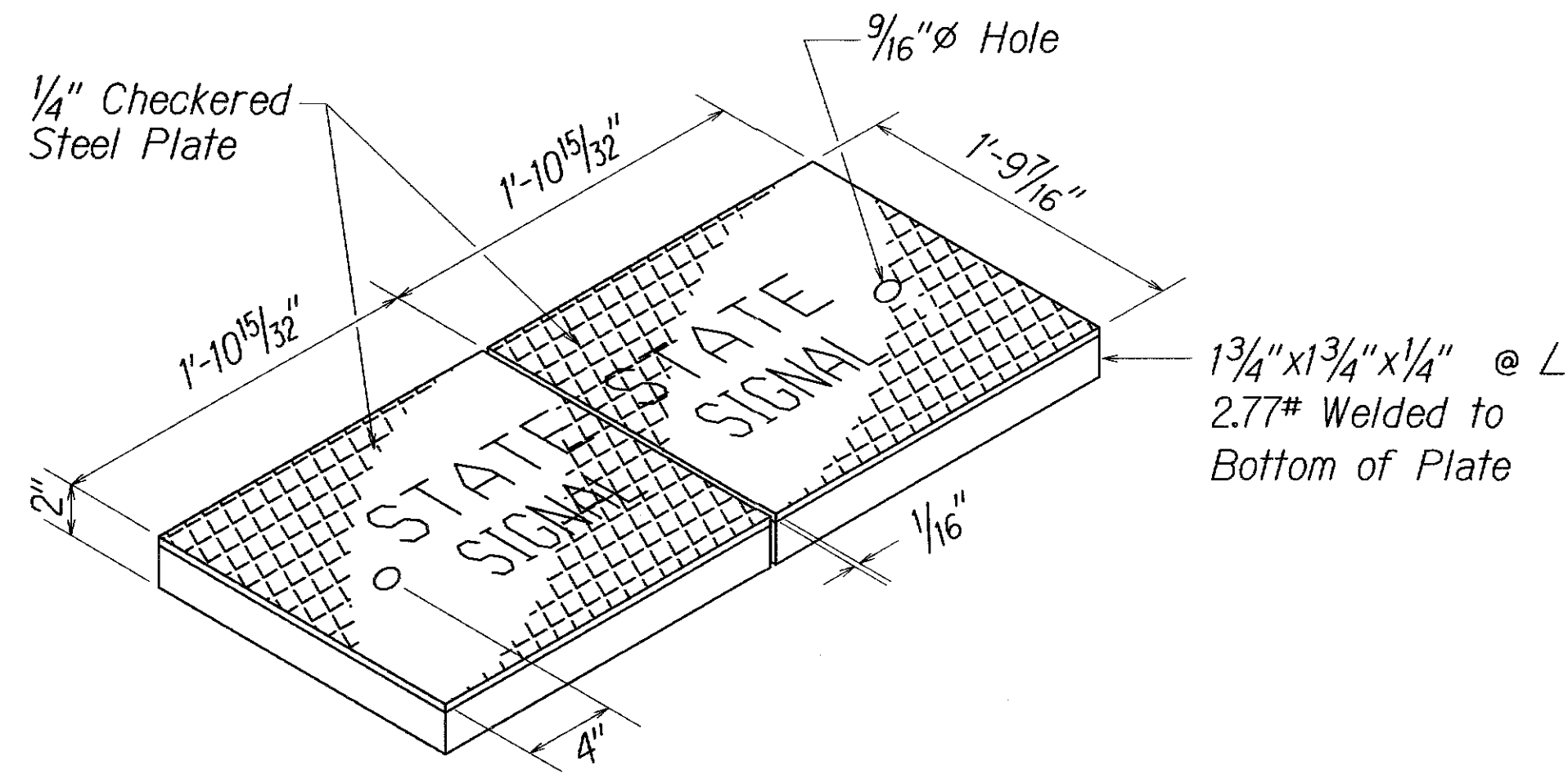
Scale: Not to Scale Date: April, 1996

SHEET No. 3 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-011-2(33)	1996	79	102



TYPE "C" PULLBOX
Not to Scale



TYPE "D" PULLBOX
Not to Scale

- NOTES:
1. After fabrication of covers, Galvanize or apply 2 coats of ZRC (Zinc Rich Coating) to both sides.
 2. Install on 6" bed of #3 Crushed Rock.
 3. Provide Ground Rod in all Pullboxes adjacent to Standards, Pedestals, Controllers, and other locations specified by the Engineer.

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL DETAILS

KANOELEHUA AVENUE RESURFACING
PANAWEA BRIDGE TO PUAINAKO ST.
F. A. Project No. NH-011-2(33)

Scale: As shown
Date: April, 1996

SURVEY PLOTTED BY	DATE
DRAWN BY	4/96
TRACED BY	
CHECKED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	
BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-011-2(33)	1996	80	102

TRAFFIC SIGNAL NOTES:

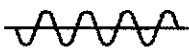
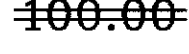
When used below, "Department" shall refer to the County of Hawaii, Department of Public Works, Traffic Division.

- Contractor shall coordinate all work relating to traffic signals with the Department.
- The Department shall be notified at least three (3) working days in advance of any work relating to traffic signals.
- Signal standard, traffic signal head, and pedestrian signal head shall be provided by the Department. Contractor shall be responsible for pick up of these items from the Department.
- Contractor shall exercise due care in removing the existing signal standard, traffic signal head, and pedestrian signal head and returning these items to the Department. Removal and returning of these items shall be considered incidental to Item No. 623.1500 - Relocate Traffic Signal Standard and Signal Assembly.
- All re-wiring, splicing and conduit work, complete in place, required for the traffic signal modifications called out in this project shall be constructed in consultation with the Department. This traffic signal modification work, except for the work related to traffic signal interconnection, shall be paid for on lump a sum basis under Item No. 623.5200 - Furnish and Install Traffic Signal Cables and Conduits. Payment for the installation of conduits for the traffic signal interconnection and street lights shall be paid for on a lump sum basis under Item No.623.5015 - Future Interconnect and Street Light Conduit System, Including Trenching, Backfill, and Concrete Encased Conduits. See Sheet 63 & 78 for typical trench details.
- Removal of traffic signal pullboxes, existing signal controller, and HELCO meter and related wiring shall be considered incidental to various traffic signal items. Removal shall include required backfilling, as necessary.
- Saw cutting of existing detector loops shall be considered incidental to various traffic signal items.
- Signals shall remain in operation at all times, except as permitted by the Department. Special duty police officers shall direct traffic if the signals are inoperable. Payment for special duty police officers shall be considered incidental to Item No. 623.5200 - Furnish and Install Traffic Signal Cables and Conduits.
- All conduits abandoned in place shall be capped. This work shall be considered incidental to Item No. 623.5200 - Furnish and Install Traffic Signal Cables and Conduits.
- All conduits shall be concrete encased unless otherwise directed by the Engineer. All conduits encased in concrete shall be schedule 40. Conduits not encased shall be schedule 80.

INTERCONNECT PULLBOX AND CONDUIT SUMMARY

PULLBOX NO.	LOCATION	CONDUITS RUN 2-2"PVC, SCH. 80
PB-5	O.B. @ Sta. 1315+00± o/s 74'± Rt.	115± Lin. Ft.
PB-1	O.B. @ Sta. 1315+15± o/s 26'± Lt.	110± Lin. Ft.
PB-6	O.B. @ Sta. 1316+25± o/s 26'± Lt.	115± Lin. Ft.
PB-7	O.B. @ Sta. 1317+40± o/s 26'± Lt.	60± Lin. Ft.
ICPB-1	O.B. @ Sta. 1318+00± o/s 26'± Lt.	140± Lin. Ft.
ICPB-2	O.B. @ Sta. 1319+40± o/s 26'± Lt.	130± Lin. Ft.
ICPB-3	O.B. @ Sta. 1320+70± o/s 26'± Lt.	130± Lin. Ft.
ICPB-4	O.B. @ Sta. 1322+00± o/s 14'± Lt.	150± Lin. Ft.
ICPB-5	O.B. @ Sta. 1323+50± o/s 14'± Lt.	125± Lin. Ft.
ICPB-6	O.B. @ Sta. 1324+75± o/s 14'± Lt.	150± Lin. Ft.
ICPB-7	O.B. @ Sta. 1326+75± o/s 14'± Lt.	150± Lin. Ft.
ICPB-8	O.B. @ Sta. 1327+75± o/s 14± Lt.	150± Lin. Ft.
ICPB-9	O.B. @ Sta. 1329+25± o/s 14± Lt.	150± Lin. Ft.
ICPB-10	O.B. @ Sta. 1330+75± o/s 14± Lt.	150± Lin. Ft.
ICPB-11	O.B. @ Sta. 1332+25± o/s 22± Lt.	150± Lin. Ft.
ICPB-12	O.B. @ Sta. 1333+75± o/s 26± Lt.	150± Lin. Ft.
ICPB-13	O.B. @ Sta. 1335+25± o/s 26± Lt.	150± Lin. Ft.
ICPB-14	O.B. @ Sta. 1336+75± o/s 14± Lt.	150± Lin. Ft.
ICPB-15	O.B. @ Sta. 1338+25± o/s 14± Lt.	150± Lin. Ft.
ICPB-16	O.B. @ Sta. 1339+75± o/s 14± Lt.	155± Lin. Ft.
ICPB-17	O.B. @ Sta. 1341+30± o/s 14± Lt.	155± Lin. Ft.
ICPB-18	O.B. @ Sta. 1342+85± o/s 26± Lt.	150± Lin. Ft.
ICPB-19	O.B. @ Sta. 1344+35± o/s 26± Lt.	125± Lin. Ft.
ICPB-20	O.B. @ Sta. 1345+60± o/s 26± Lt.	125± Lin. Ft.
ICPB-21	O.B. @ Sta. 1346+85'± o/s 26± Lt.	125± Lin. Ft.
ICPB-22	O.B. @ Sta. 1348+10'± o/s 15± Lt.	125± Lin. Ft.
ICPB-23	O.B. @ Sta. 1349+35'± o/s 14± Lt.	150± Lin. Ft.
ICPB-24	O.B. @ Sta. 1350+ 85 ⁷⁵ ± o/s 30± Lt.	105± Lin. Ft.
Exist. PB @ Puainako St.	O.B. @ Sta. 1351+ 90 ¹⁴ ± o/s 40± Lt.	
TOTAL		3790 ± Lin. Ft. 3599

NOTE: All interconnect pullboxes shall be Type B with modified cover.

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TRAFFIC SIGNAL NOTES
AND SCHEDULE**
KAOELEHUA AVENUE RESURFACING
PANAWEA BRIDGE TO PUAINAKO ST.
F. A. Project No. NH-011-2(33)
Date: April, 1996
SHEET No. 5 OF 5 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	4/36
dd4,jason	TRACED BY	
N. 3/21/96	QUANTITIES BY	
	CHECKED BY	