FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-063-1(19) STP-063-1(20)	1995	78	78

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL NOTES

(A) Erosion and Sediment Control Inspection and Maintenance Practices.

(1) The Contractor shall inspect the erosion and sediment control measures at least once a week or after 0.5 inches of rainfall.

(2) The Contractor shall maintain the erosion and sediment control measures according to the contract. If a repair is necessary, the Contractor shall initiate the repairs within twenty-four (24) hours after the inspection such as:

(a) When sediment build-up reaches one-third (1/3) the height of the silt fence, the Contractor shall remove and dispose of the sediment build-up from the silt fence.

(b) When the depth of the sediment basin reaches ten percent (10%) of the design capacity, the Contractor shall remove and dispose of the sediment build-up.

(c) When tears are found on the silt fence, the Contractor shall replace the fabric.

(d) The Contractor shall check to see if the fabric is securely attached to the fence posts and to see that the fence posts are firmly in the ground.

(e) The Contractor shall inspect the diversion dike and repair the breaches.

(f) The Contractor shall inspect temporary and permanent seeding and planting for bare spots, washouts, and healthy growth.

(3) The Contractor shall have its personnel make a maintenance inspection report promptly after each inspection. The Contractor shall select a minimum of three (3) personnel who will be responsible for inspection, maintenance, repair activities, and filling out the inspection and maintenance report. Personnel selected for the inspection and maintenance responsibilities will receive training from the Contractor. The Contractor shall train these personnel in the inspection and maintenance practices necessary for keeping the erosion and sediment used onsite according to the contract.

(B) Submittal Requirements:

(1) Construction activities of five (5) acres or more.

(a) Storm water discharges into State waters due to construction activities of Five (5) acres or more, will require an NPDES permit from the Department of Health (DOH). The Contractor shall submit to the Engineer four (4) sets of Site-Specific Best Management Plans (BMP). The Plans shall be submitted no later than thirty (30) calendar days after the award of Contract.

(b) No construction activities will be authorized until the Contractor's Site-Specific BMP has been approved by the Highways Division.

(2) Construction activities dewatering and/or hydrotesting water.

(a) Discharges into State waters due to dewatering and/or hydrotesting activities will require NPDES Permit(s) from DOH. If the Contractor options to discharge dewatering and/or hydrotesting effluent into State waters, the Contractor shall submit to the Engineer four (4) sets of Site-Specific Dewatering and/or Hydrotesting BMP, and four (4) copies of the Quality of Discharge Test results. The Plans and test results shall be submitted no later than thirty (30) calendar days after the award of Contract.

(b) No dewatering and/or hydrotesting activities will be authorized until the receipt of the NPDES Permit(s) from DOH.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK dd3.lynne	DRAWN BY A. Nomura	3/3/95
No. 1klhdpd.dgn	TRACED BY	
	DESIGNED BY C. Matsuda, L. Fujikami	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

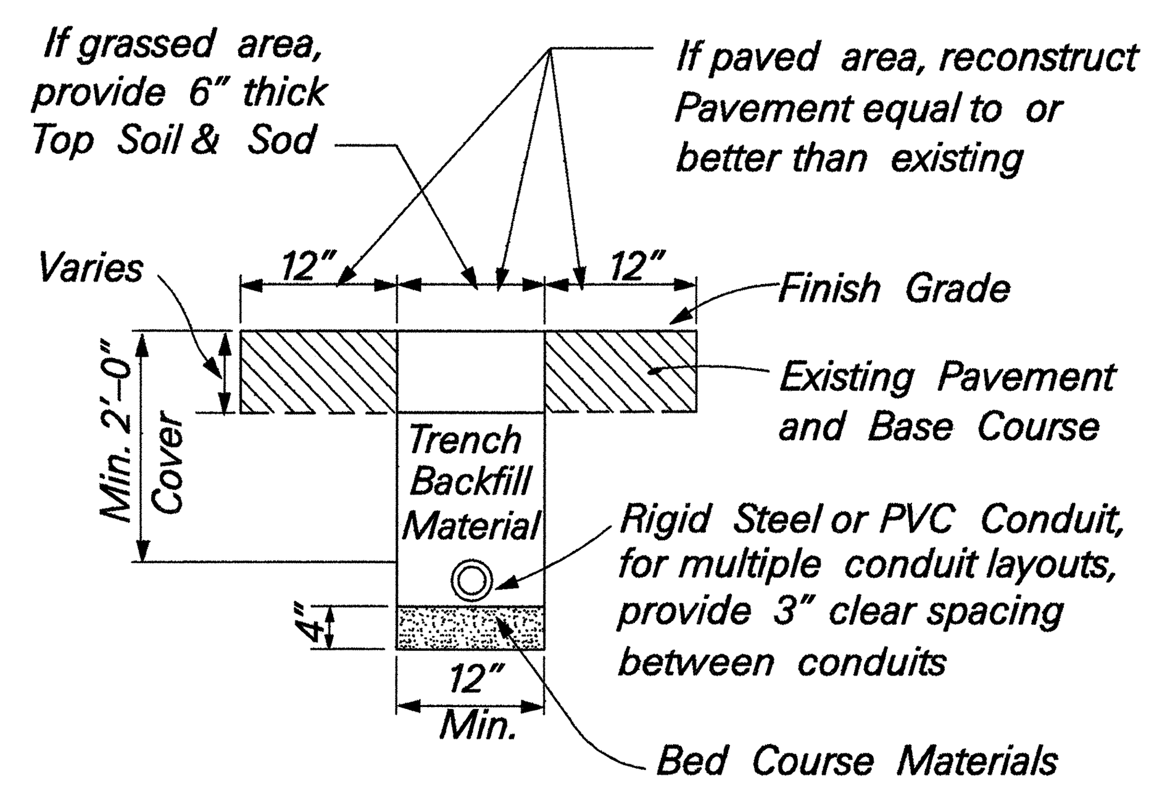
NPDES GENERAL NOTES

LIKELIKE HIGHWAY RESURFACING
F.A. Project No. NH-063-1(19)
KALIHI STREET RESURFACING
F.A. Project No. STP-063-1(20)

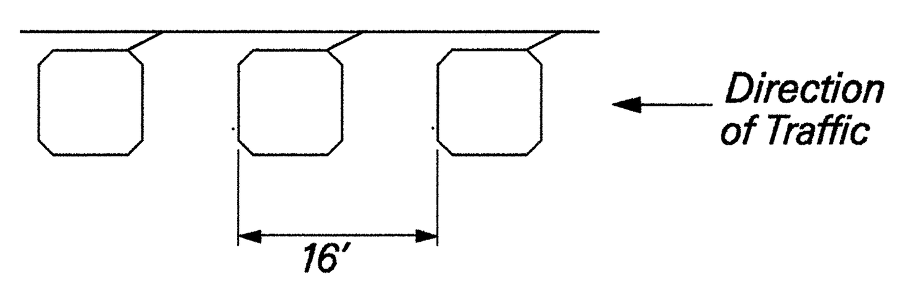
Scale: As Shown Date: May, 1995

SHEET No. 1 OF 1 SHEETS

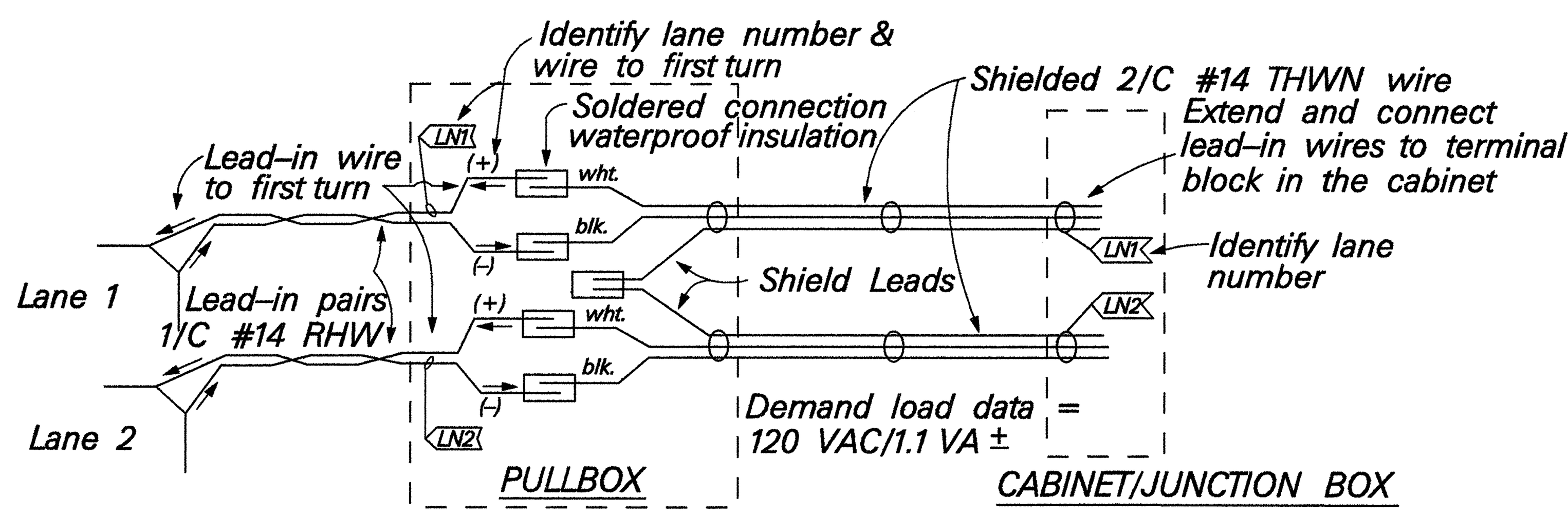
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-063-1(19)	1995	C.O.78S-1	78



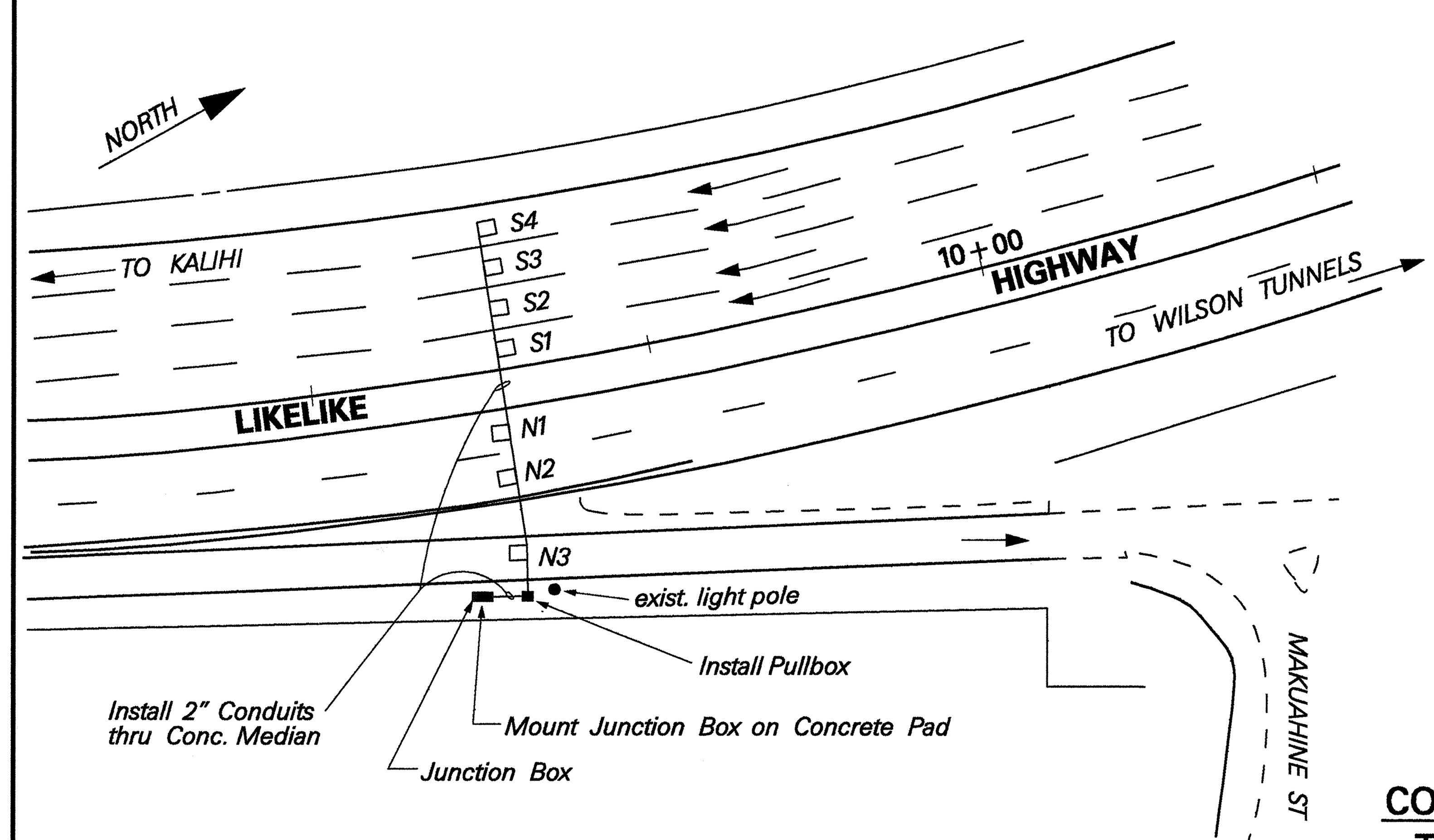
TYPICAL TRENCH SECTION FOR CONDUIT



TRIPLE LOOP LAYOUT



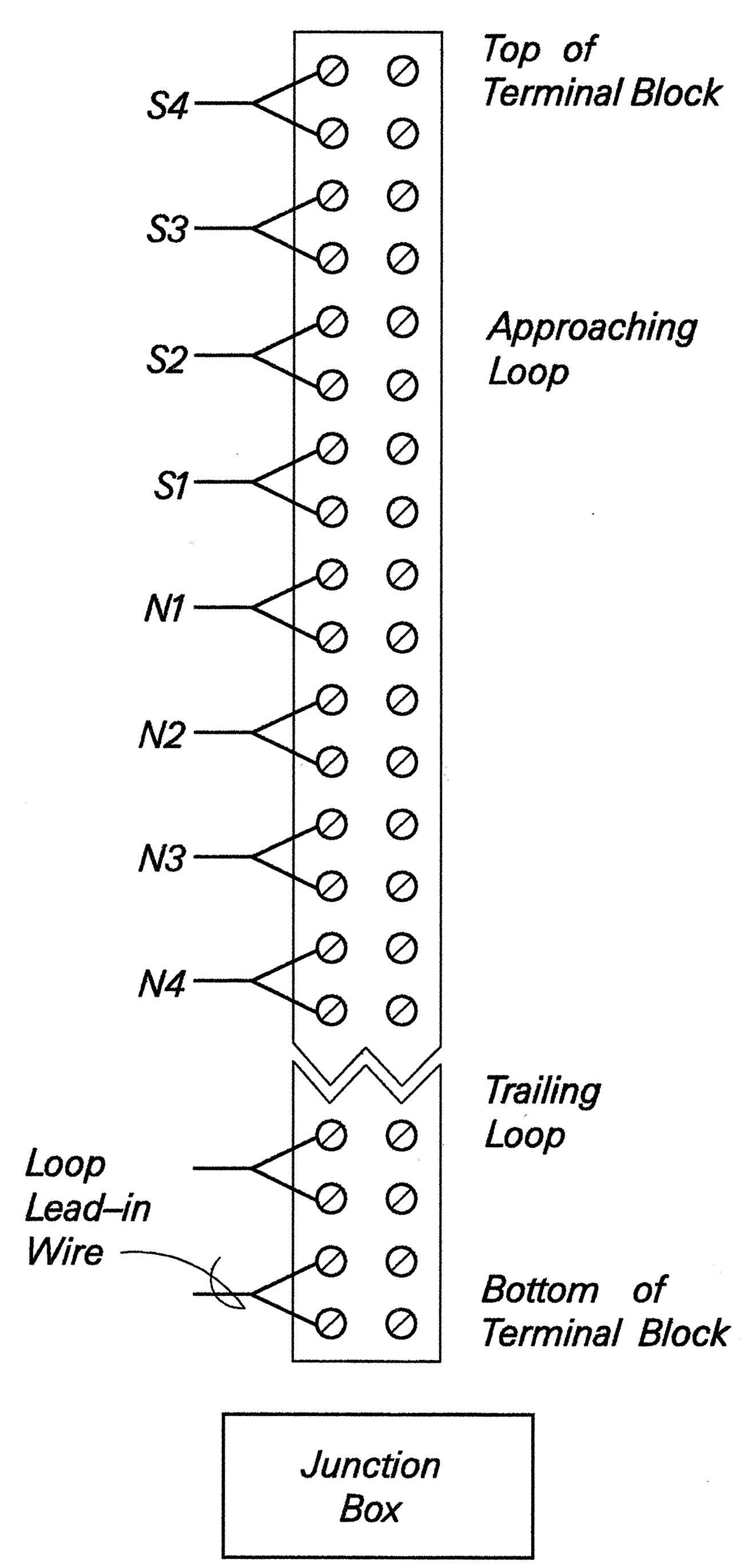
DETECTOR LOOP LEAD-IN WIRING AND IDENTIFICATION IN PULLBOX AND CABINET
Not to Scale



LOOP INSTALLATION AT TRAFFIC COUNT STATION NO. 210
LIKELIKE HIGHWAY, ℄ STA. 8+40±
Not to Scale

LOOP LAYOUT NOTES

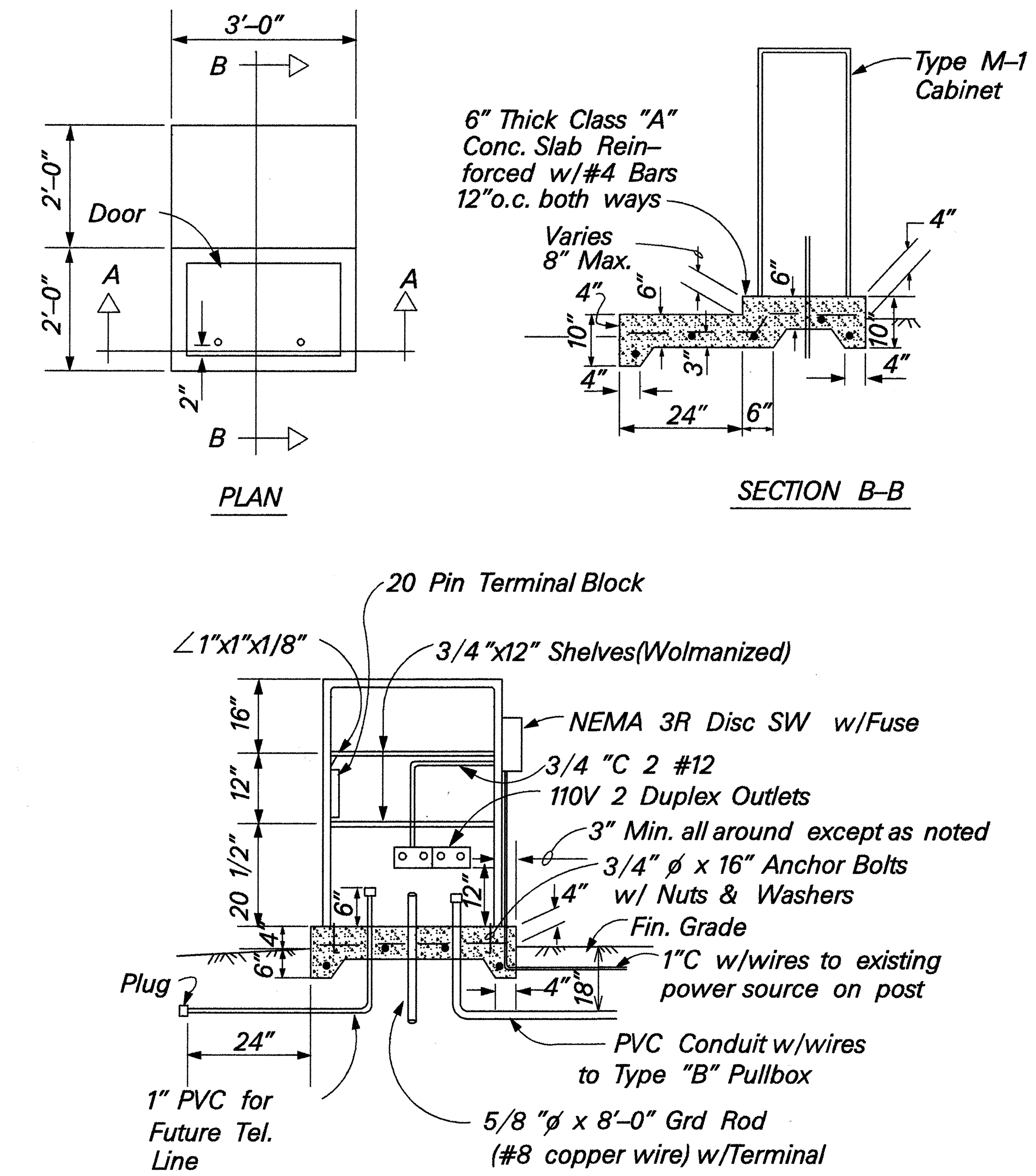
1. Detector loop shall consist of three turns of 1/C 14 AWG RHW-USE-XLP wire or equivalent embedded in a 3/8" minimum saw cut, except as noted.
2. Loop and lead-in to the first pullbox shall be one continuous wire. Lead-in wires from the same loop shall be twisted in pairs, two turns per foot. DO NOT twist one loop-pairs with another loop-pairs.
3. All lead-in wires shall be crimped with U-shaped solderless connectors, such as Panduit terminals that will fit into the terminal board slots snugly.
4. The Contractor shall connect the inductance wires on each terminal slot. (See "Connecting Layout of Loop Lead-In Wires to Terminal Block" on this sheet.)
5. The left lane in the direction of traffic flow is designated as lane 1, and the lane next to its right as lane 2 and so on as indicated on plans.
6. Clean sawcut thoroughly before filling with appropriate sealant.
7. All loop lead-in wires in all enclosures including pullboxes shall be identified and labeled by direction of traffic flow and lane numbers as shown on plans.
8. All cables and wires teminated within an enclosure shall have a minimum 12" additional slack.



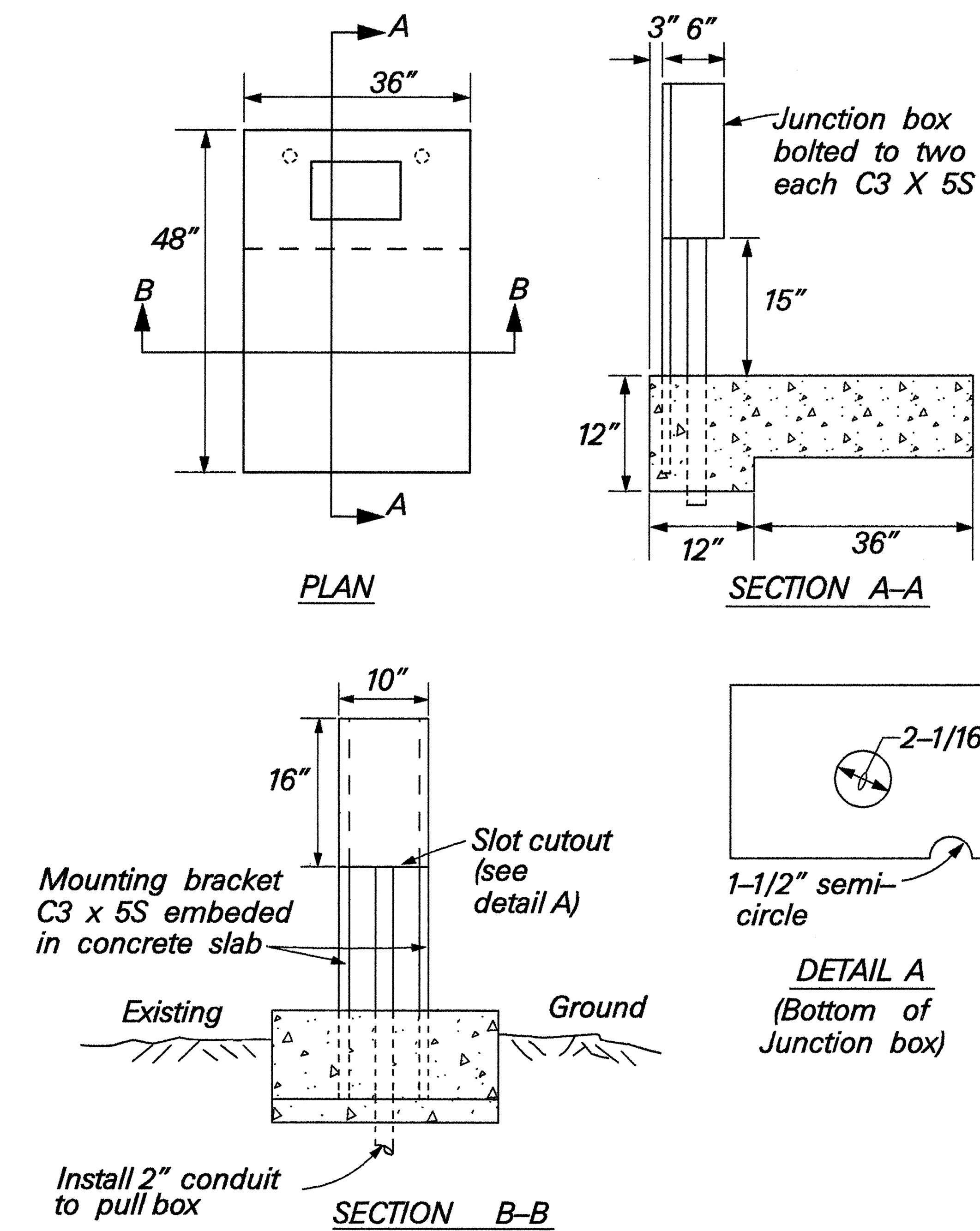
CONNECTING LAYOUT OF LOOP LEAD-IN WIRES TO TERMINAL BLOCK INSIDE JUNCTION BOX
TRAFFIC COUNT STA. NO. 210
LIKELIKE HWY. NORTH OF SCHOOL ST.
Not to Scale

GENERAL NOTES

1. The locations of new inductance loops, pullboxes and cabinets/junction boxes shall be staked out in the field by the Contractor and approved by the Engineer prior to installation.
2. The contractor shall inform the Engineer at least one day prior to pouring of the concrete slab/pad, saw-cutting pavement and installing inductance loops.
3. Continuity of inductance loops and lead-in wires shall be tested and warranted for one year from date of acceptance by the Contractor.
4. The Contractor shall restore all affected areas to their original condition. This item of work shall not be paid for separately, but shall be considered incidental to work of other paid items.
5. The Contractor shall verify the locations of the existing utilities and underground structures whether or not shown on plans.
6. The Contractor shall assume that existing underground utilities not shown on the plans may exist, therefore, he shall contact the different utility companies for information and toning.
7. The Contractor shall be held liable for any damages incurred to the existing utilities and underground structures as a result of his operations. All damaged portions shall be replaced in accordance with the standards and specifications of the affected utility company at no cost to the STATE.
8. Changes to the contract plans and specifications shall not be permitted, unless otherwise authorized by the Engineer upon written justification and request for approval by the Contractor.



CONCRETE PAD AND CABINET
Scale: 1/2"=1'-0"



CONCRETE PAD AND JUNCTION BOX
Not to Scale

NOTES

1. Mount a type M-1 cabinet/junction box on concrete slab/pad (36"x48") as shown at each location.
2. Concrete for new or existing slab shall be poured in place.
3. The Contractor shall furnish keys of the cabinets/junction boxes to the STATE.
4. Provide #8 copper wire ground terminal to the cabinets at Location Nos. 11 and 12.
5. Mount one 20-pin terminal board on wall inside the cabinets.
6. All conduits shall be steel or schedule 80 PVC except at Location No. 2.
7. All fastenings shall be secured by screws. Holes for the screws shall be drilled and tapped.
8. All conduits shall be laid a minimum depth of 12" below the surface's finished grade.
9. All pullboxes are type B, meeting DOT requirements. Apply two coats asphaltic base paint to the frames and covers after installation.
10. Completely caulk the bottom of all cabinets to keep out dust, debris and insects.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY X	5-8-96
	TRACED BY X	
	DESIGNED BY X	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INSTALLATION OF VEHICLE DETECTOR LOOPS

LIKELIKE HIGHWAY RESURFACING
School Street To Emmeline Place
Fed. Aid Proj. No. NH-063-1(19)

Scale: As Shown Date: Nov., 1995

SHEET No. 1 OF 1 SHEETS

C.O. 78 S-1