

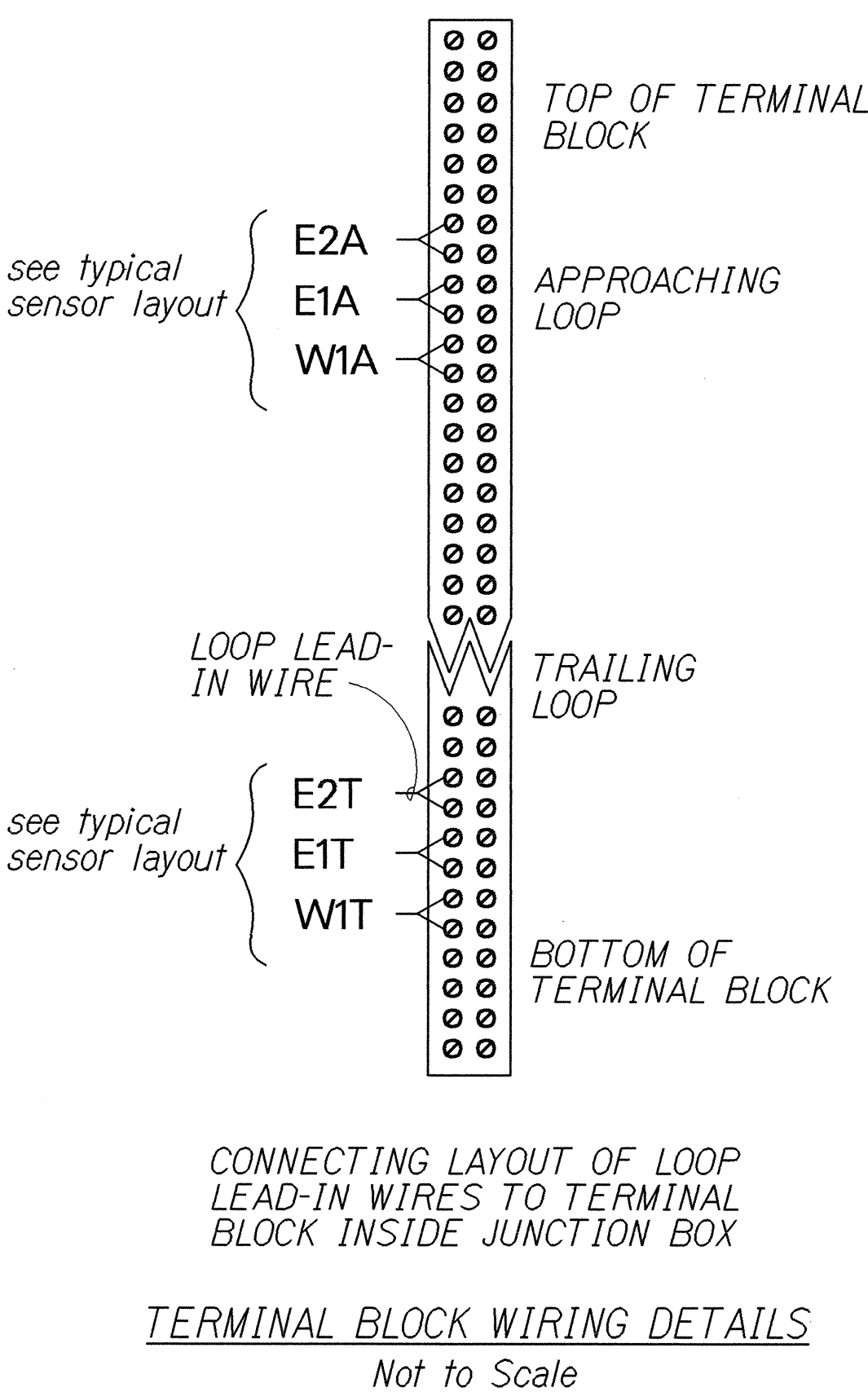
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36B-02-02	2004	11	13

### GENERAL NOTES

- 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.
- The Contractor shall inform the Engineer at least three days prior to saw-cutting pavement and installing inductance loops.
- Continuity of inductance loops and lead-in wires shall be tested and warranted for one year from date of acceptance by the Contractor.
- 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.
- The Contractor shall verify the locations of the existing utilities and underground structures whether or not shown on plans.
- 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.
- The Contractor shall be held liable for any damages incurred to the existing utilities and underground structures as a result of this 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.
- 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.

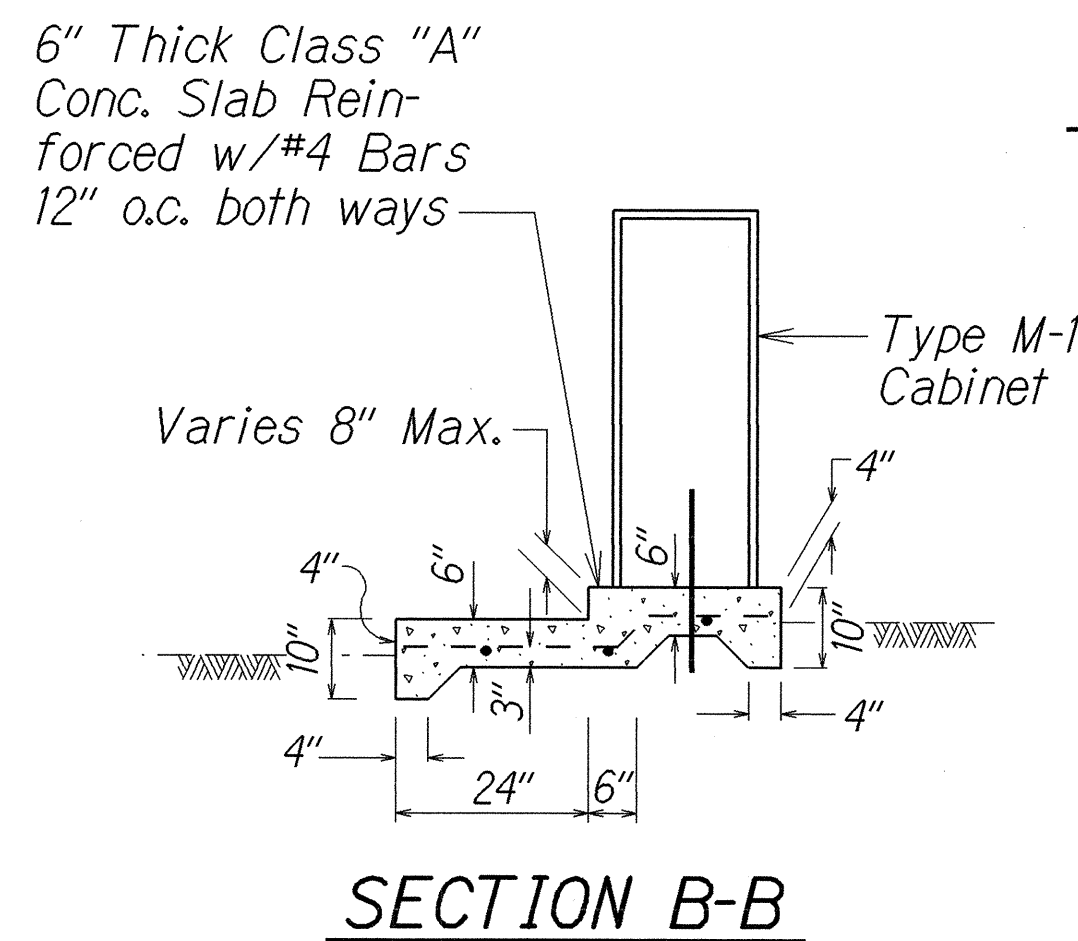
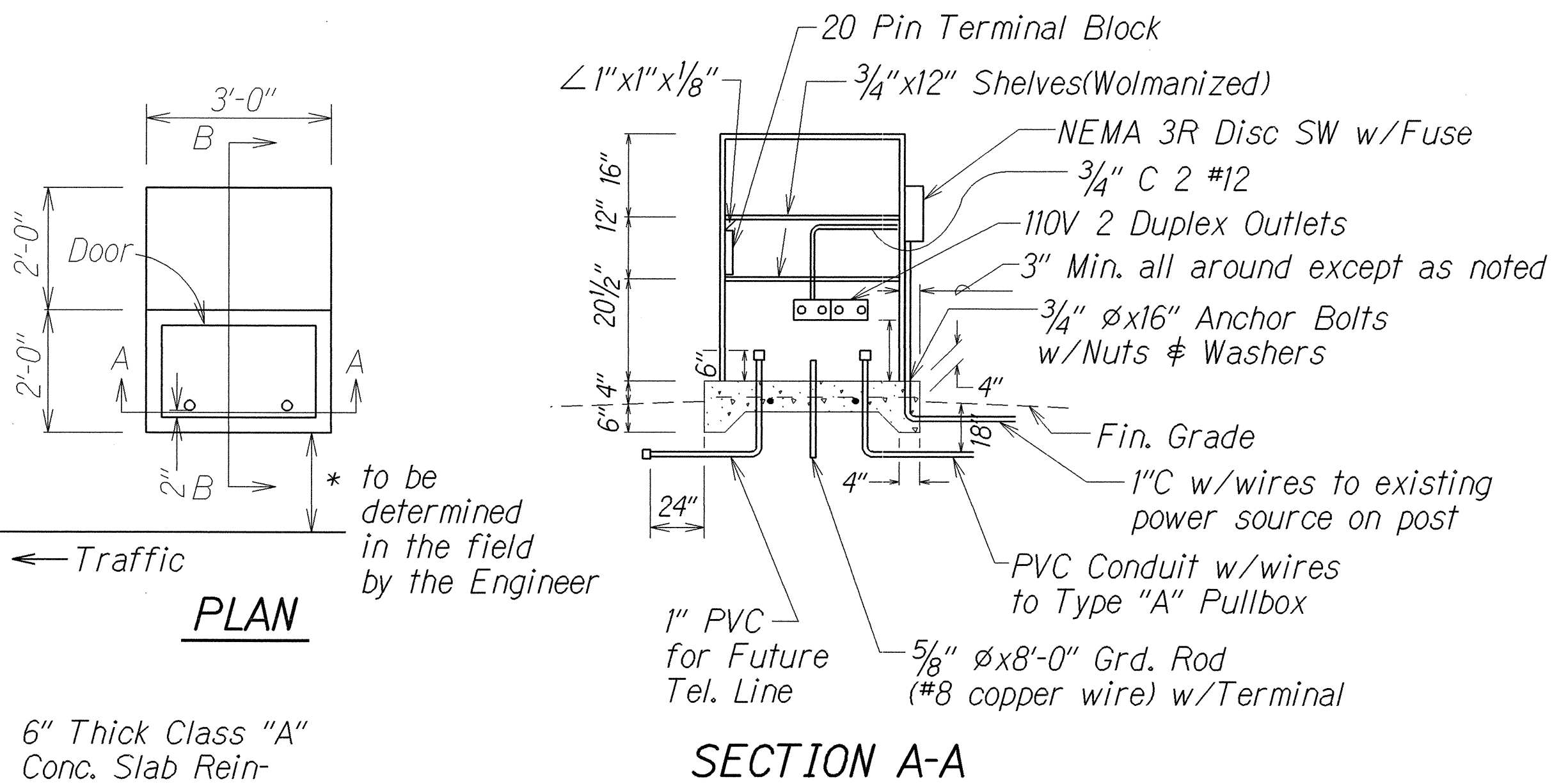
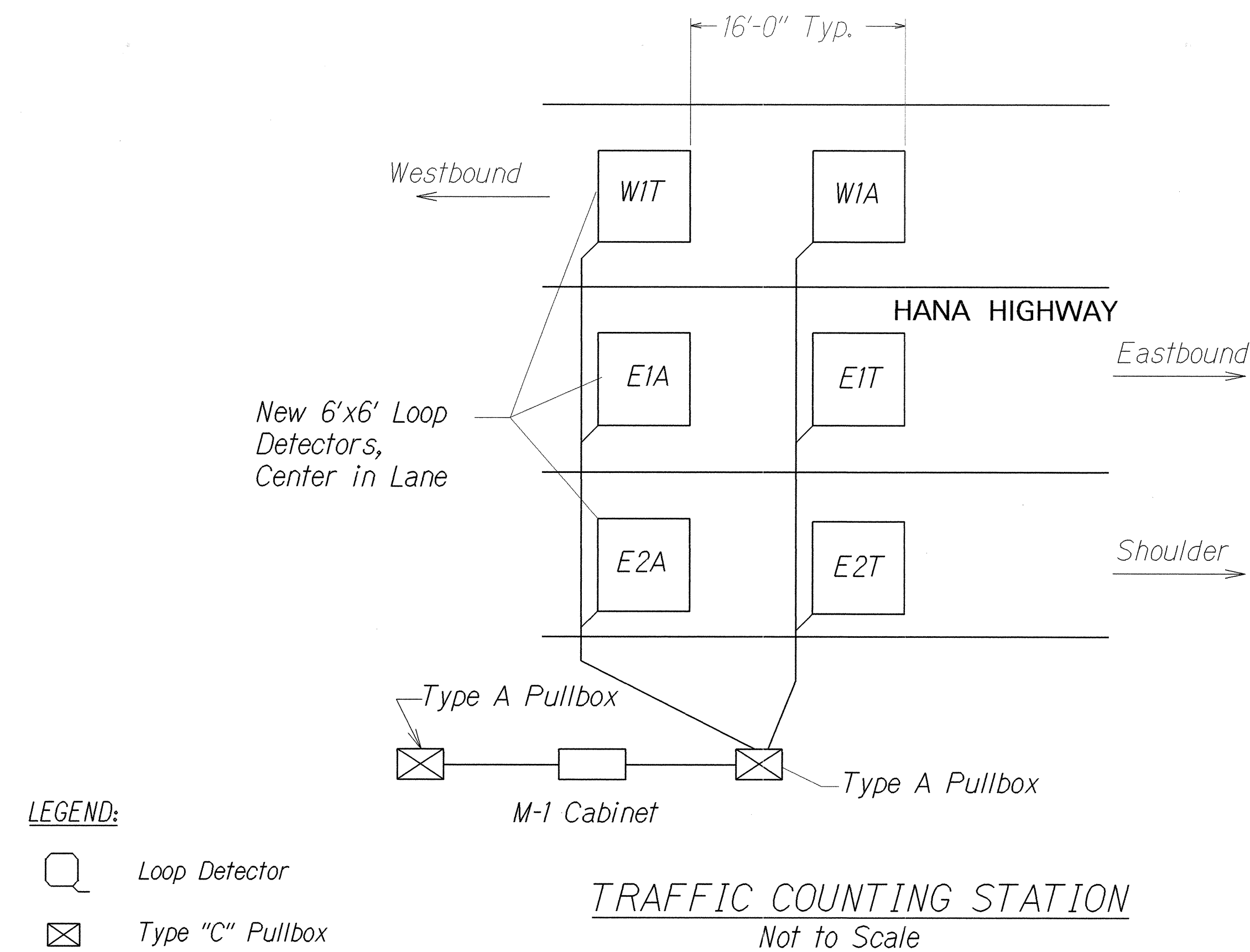
### LOOP LAYOUT NOTES

- Detector loop shall consist of three turns of 1/C #12 cable meeting IMSA SPEC 51-5 or equivalent embedded in a  $\frac{3}{8}$ " minimum sawcut, except as noted.
- Loop and lead-in to the first pullbox shall be one continuous wire. Lead-in wire from the same loop shall be twisted in pairs, two turns per foot. DO NOT twist one loop-pairs with another loop-pairs.
- All lead-in wires shall be crimped with open end lugs that will fit into the terminal board slots snugly.
- Stagger traffic loops on roadway less than 12 foot lane width.
- The Contractor shall connect the inductance wires on each terminal slot.
- 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.
- Vacuum and clean sawcut thoroughly before installing sensors and/or cables and filling with hot tar or epoxy sealant.
- 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.
- All cables and wires terminated within an enclosure shall have a minimum 12" additional slack.



### NOTES:

- Mount a type M-1 cabinet/junction ox on concrete slab/pad (36"x48") as shown.
- Concrete for slab shall be poured in place.
- The Contractor shall furnish keys of the cabinets/junction boxes to the STATE.
- Provide #8 copper wire ground terminal to the cabinets.
- Mount one 20-pin terminal board on wall inside the cabinet.
- All conduits shall be steel or schedule 80 PVC.
- All fastenings shall be secured by screws. Holes for the screws shall be drilled and tapped.
- All conduits shall be laid a minimum depth of 12" below the surface's finished grade.
- Pullbox shall be Type A, meeting DOT requirements.
- Completely caulk the bottom of all cabinets to keep out dust, debris and insects.



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

COUNTING STATION PLAN  
HANA HIGHWAY SHOULDER LANE  
Alawai Road to Paia  
Project No. 36B-02-02  
Not To Scale

Date: Jan. 2003  
SHEET No. 1 OF 2 SHEETS