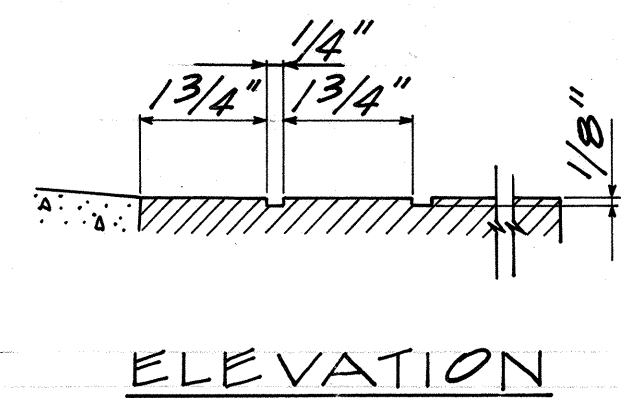
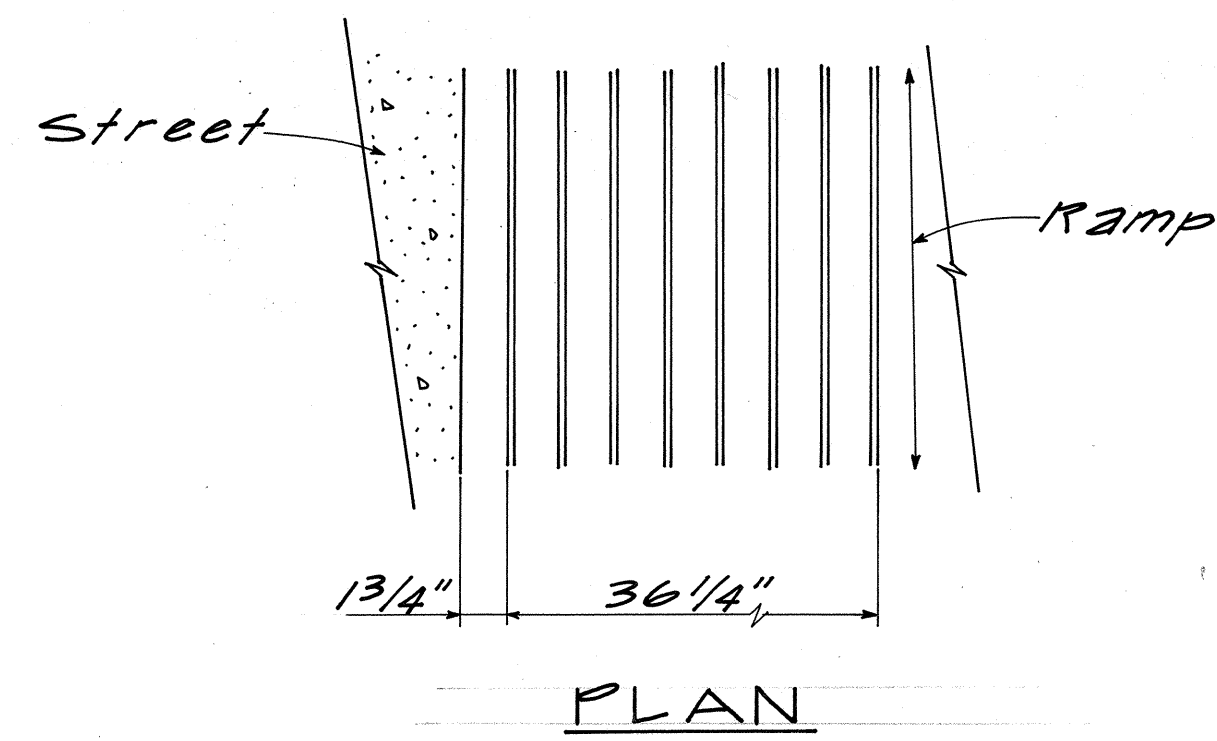
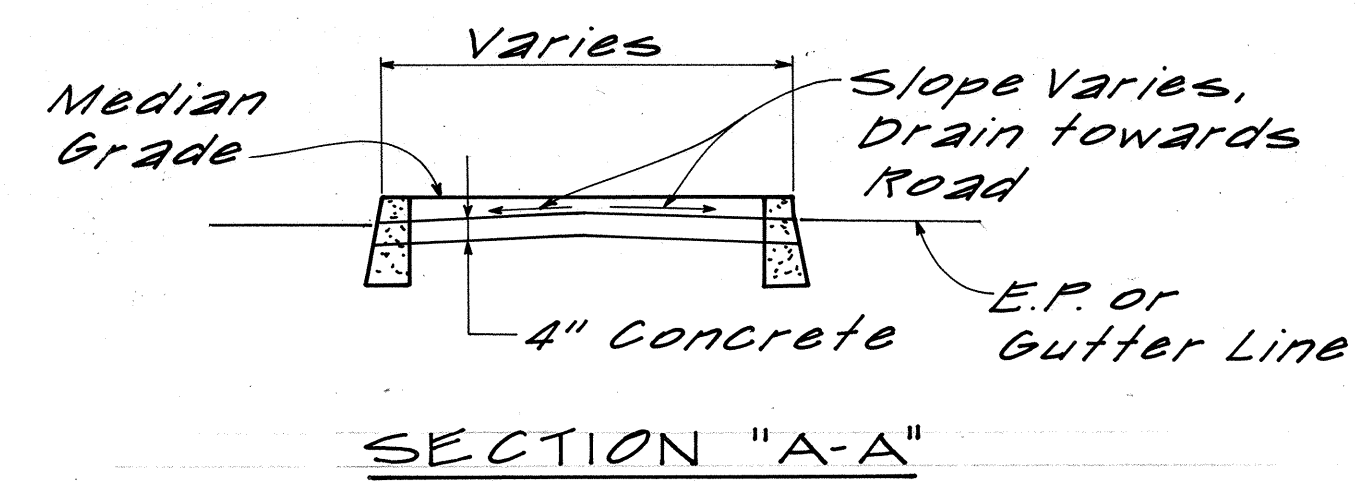
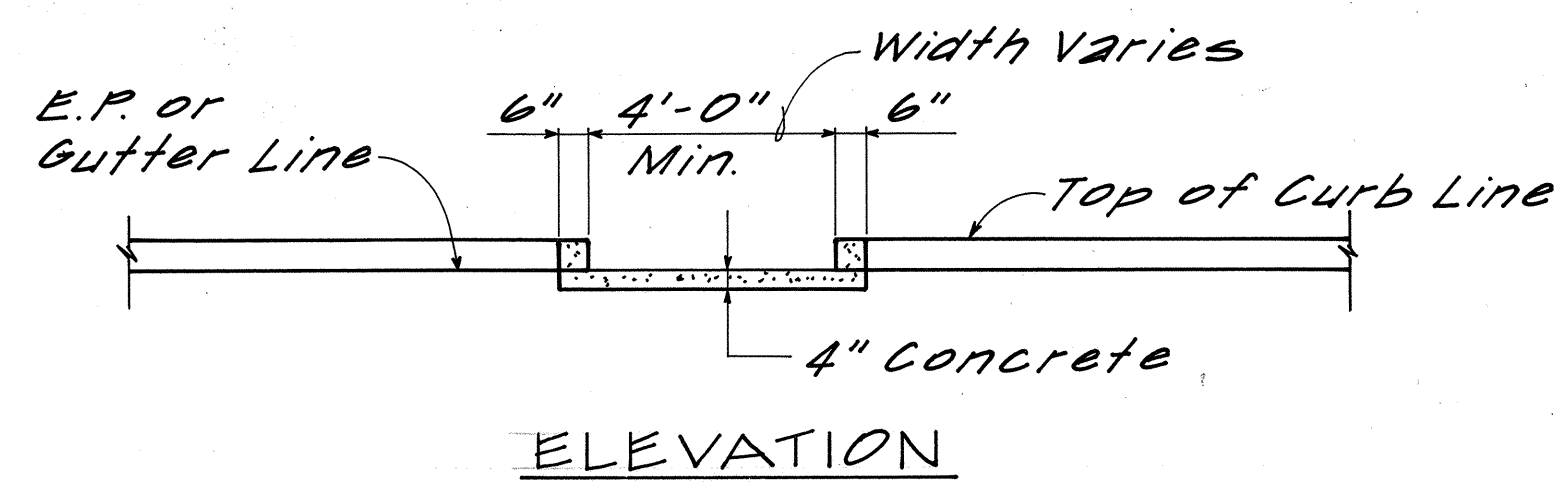
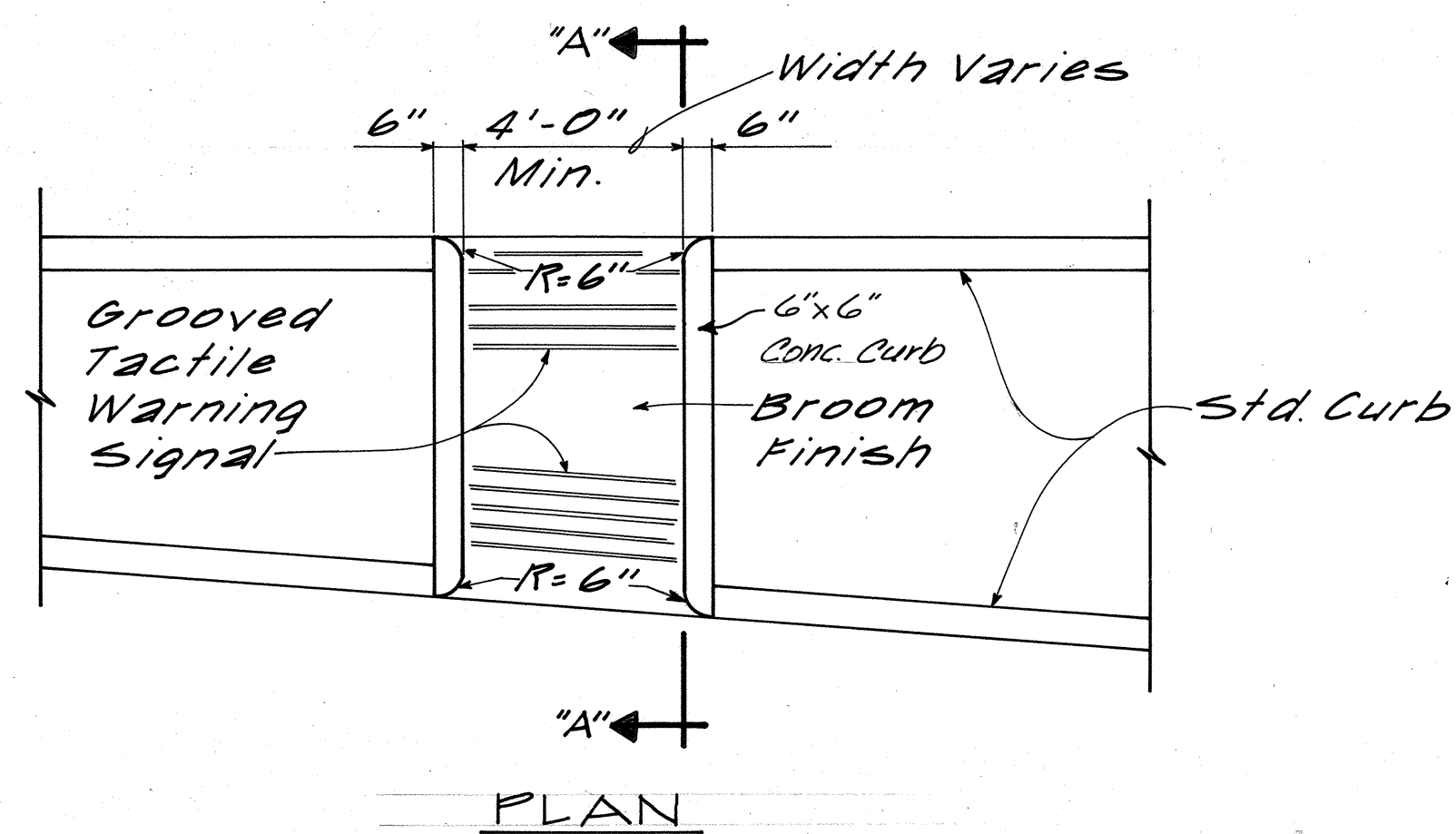


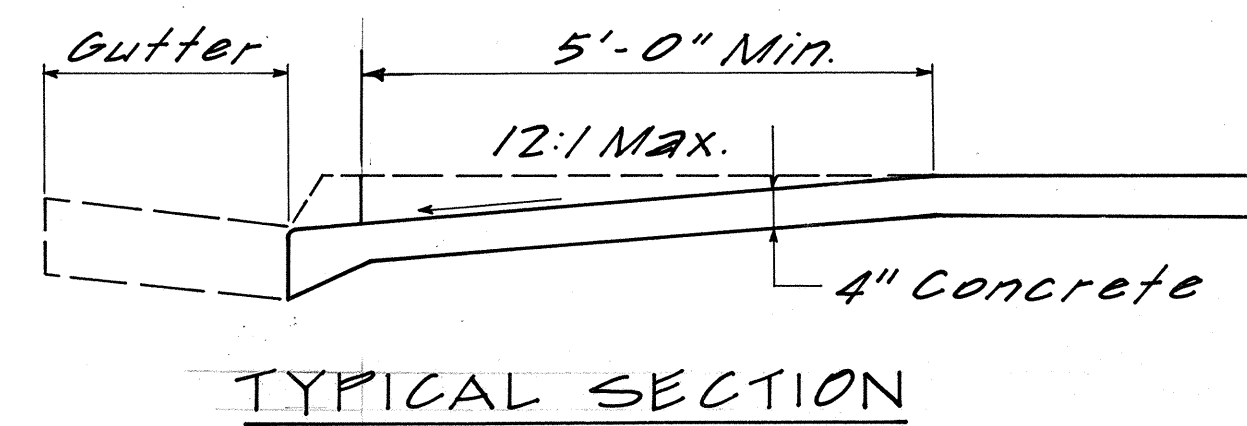
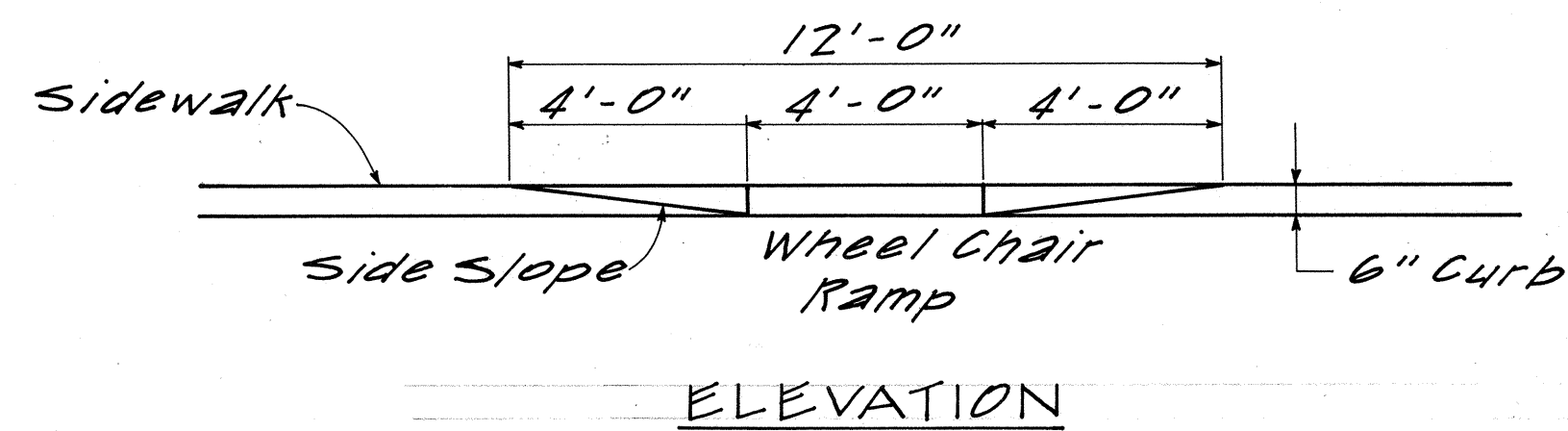
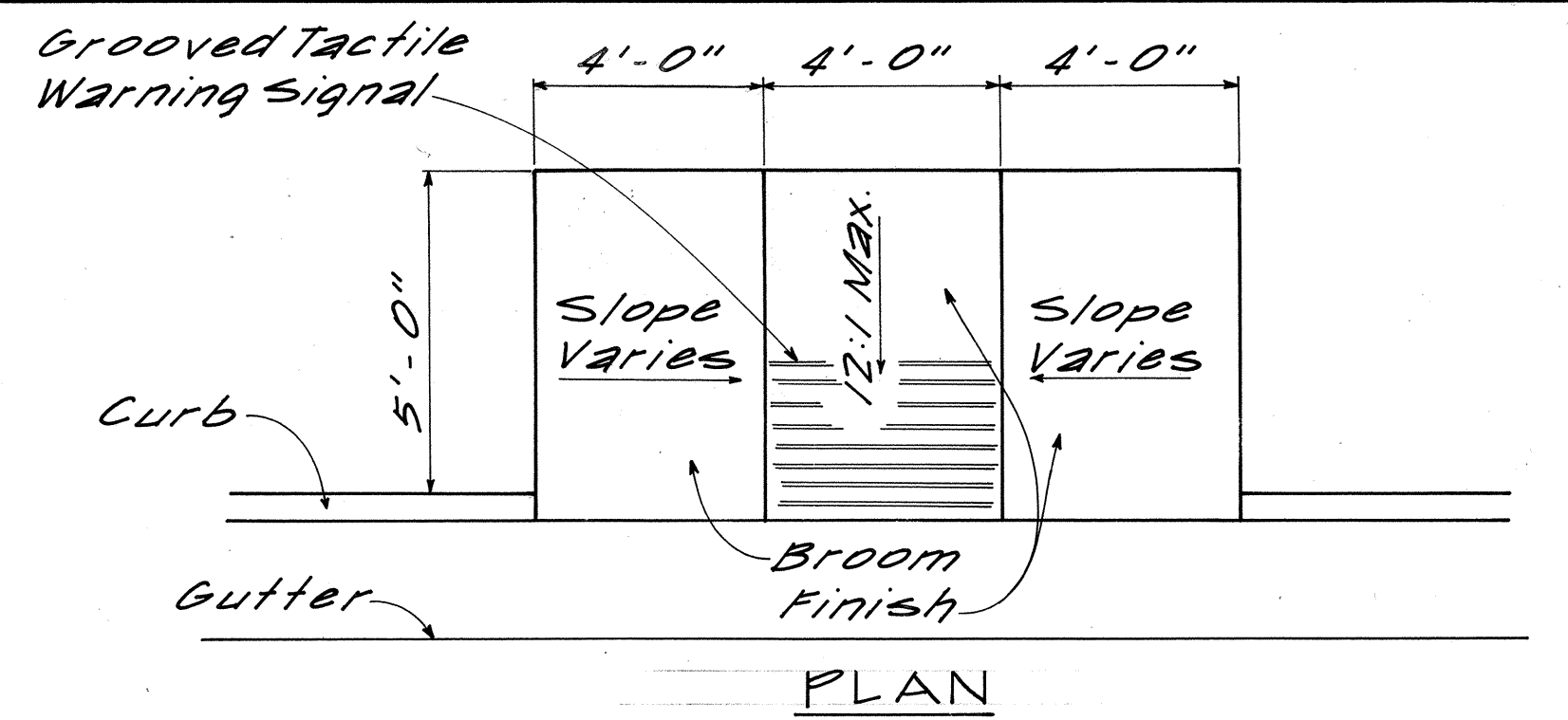
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(146):16	1979	45	283



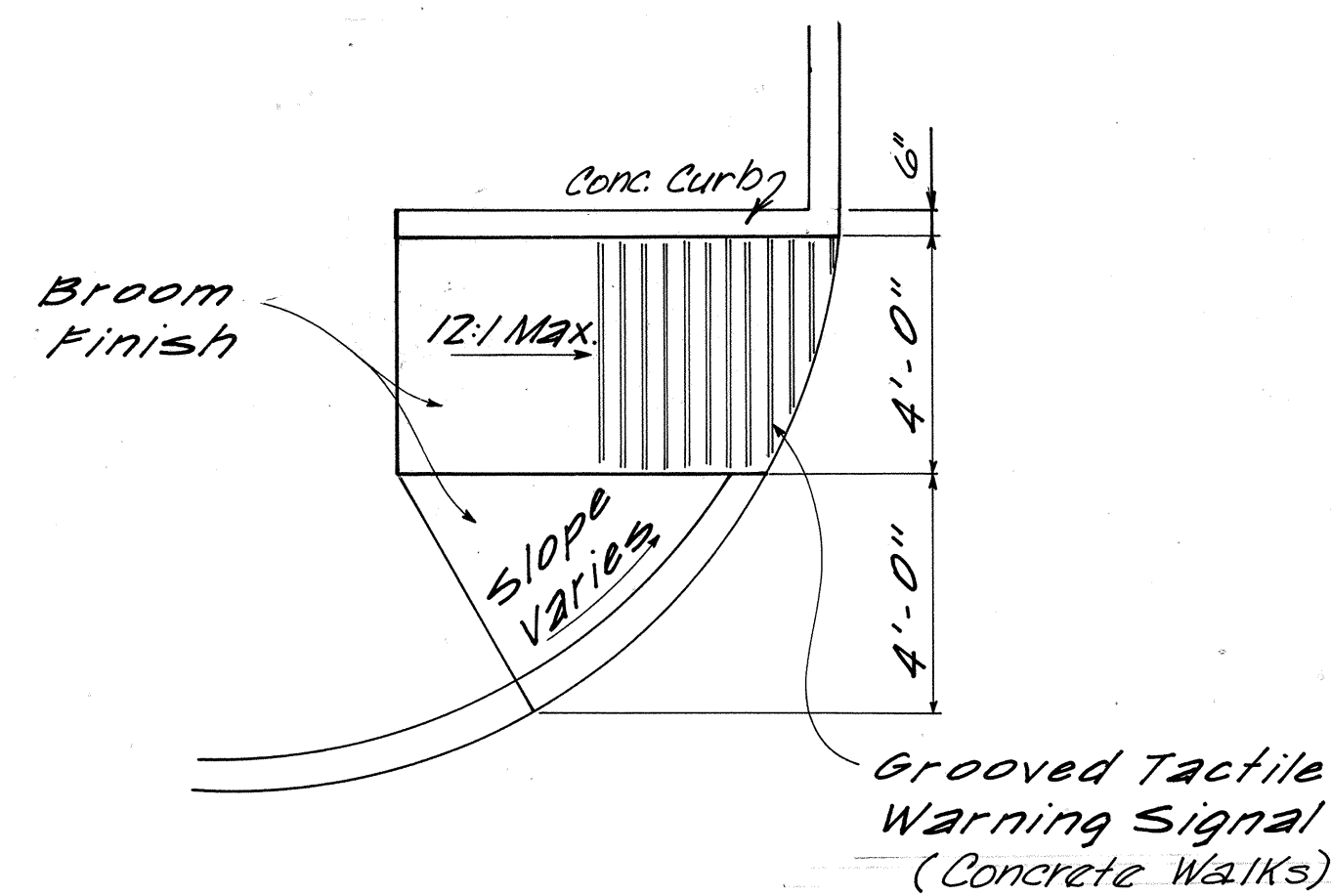
GROOVE TACTILE WARNING SIGNAL
(Concrete Walks)



WHEEL CHAIR RAMP - TYPE "C"
Use at Median Crossings, Islands



WHEEL CHAIR RAMP - TYPE "D"
Use when ideal conditions exist



WHEEL CHAIR RAMP - TYPE "E"

NOTE: Payment for wheel chair ramps is included in Pay Item No. 608.0200 4-Inch Plain Concrete Sidewalk



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Signature

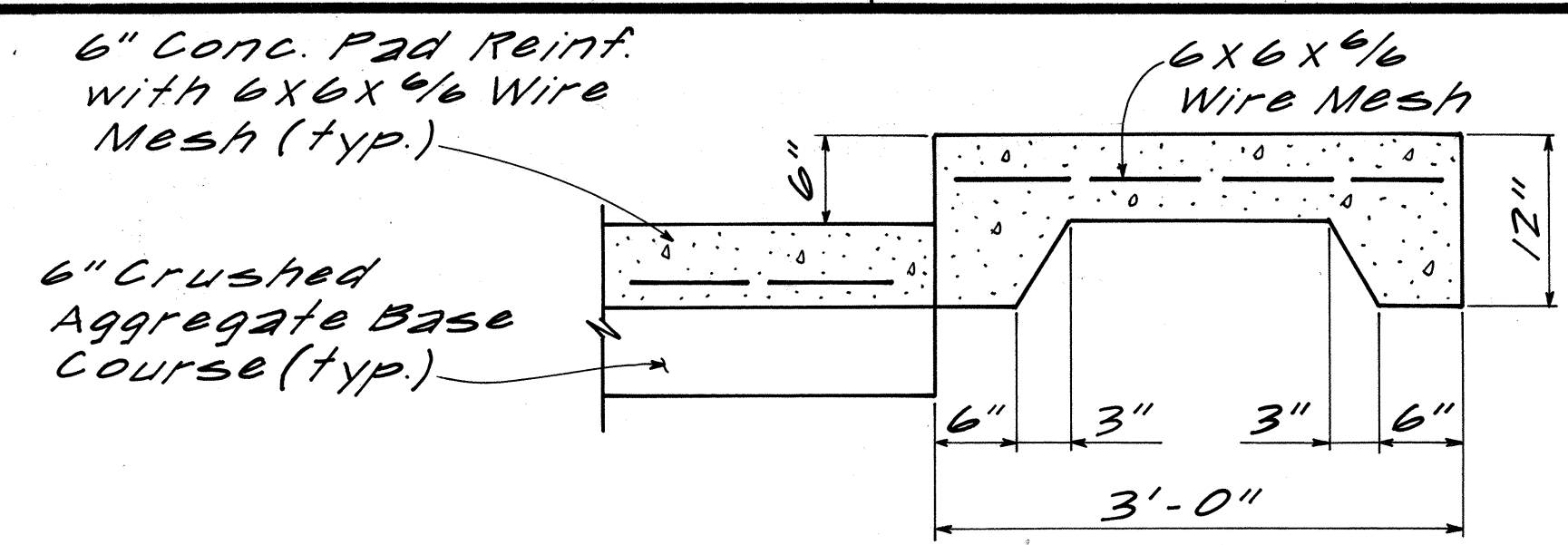
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

TYPICAL DETAILS OF WHEEL CHAIR RAMPS

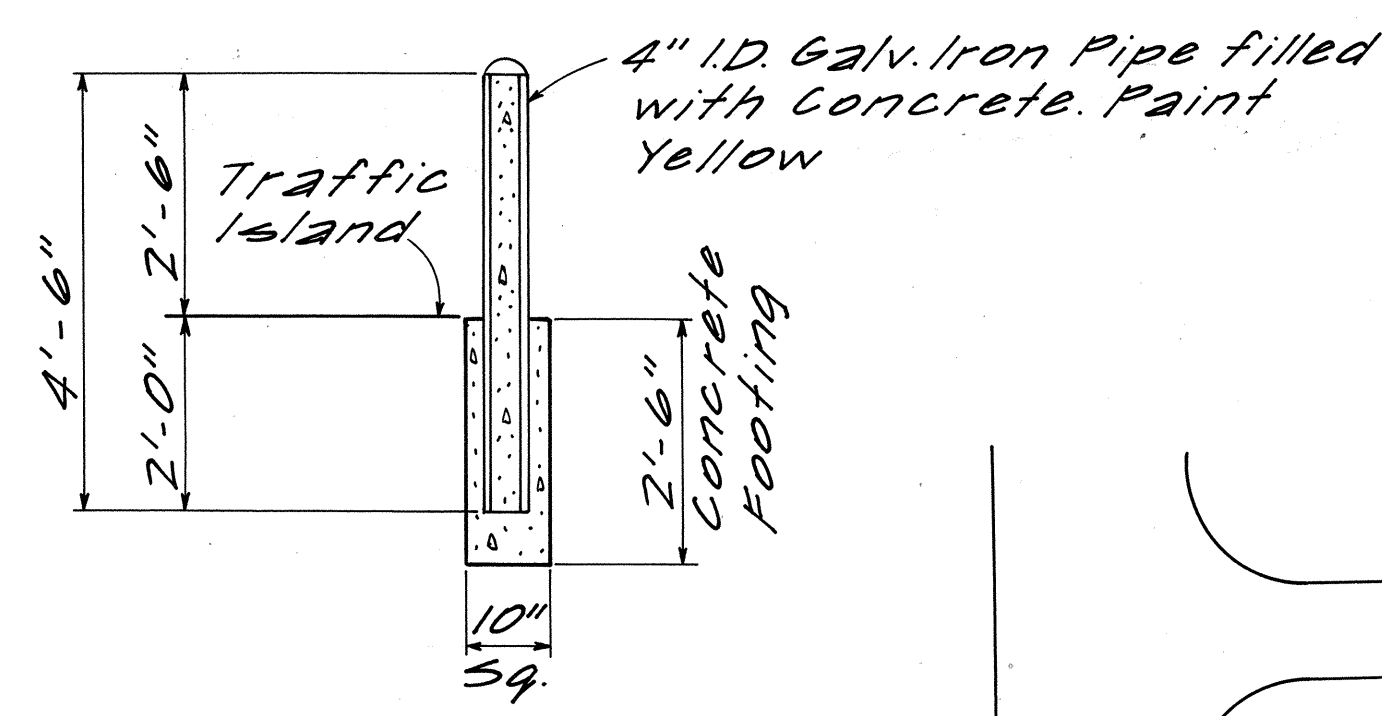
AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(146):16

NO SCALE DATE: JUNE 1, 1979
SHEET No. OF SHEETS

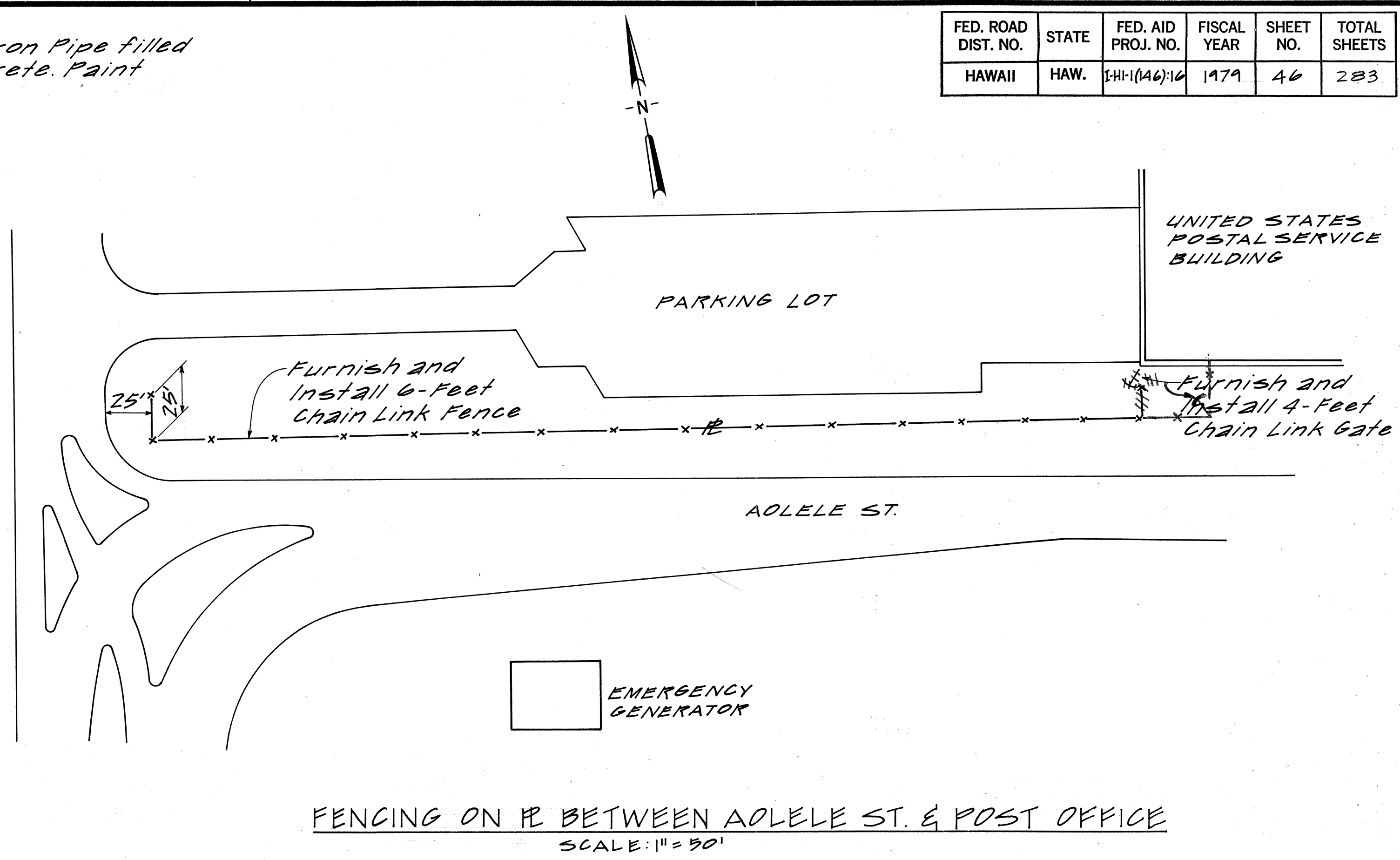
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HAWAII	HAW.	HI-1(146)-16	1979	46	283



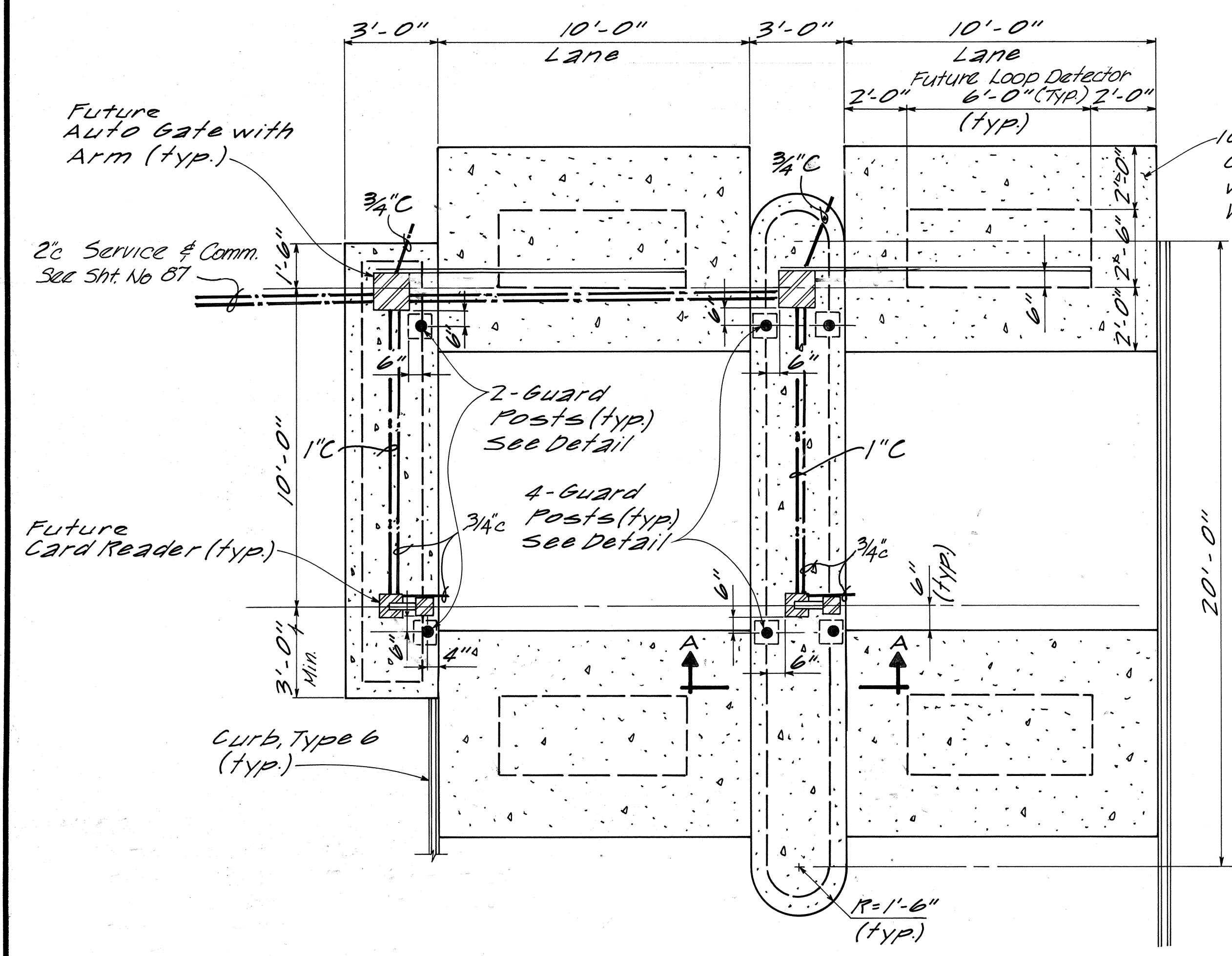
SECTION A-A
SCALE: 1" = 1'-0"



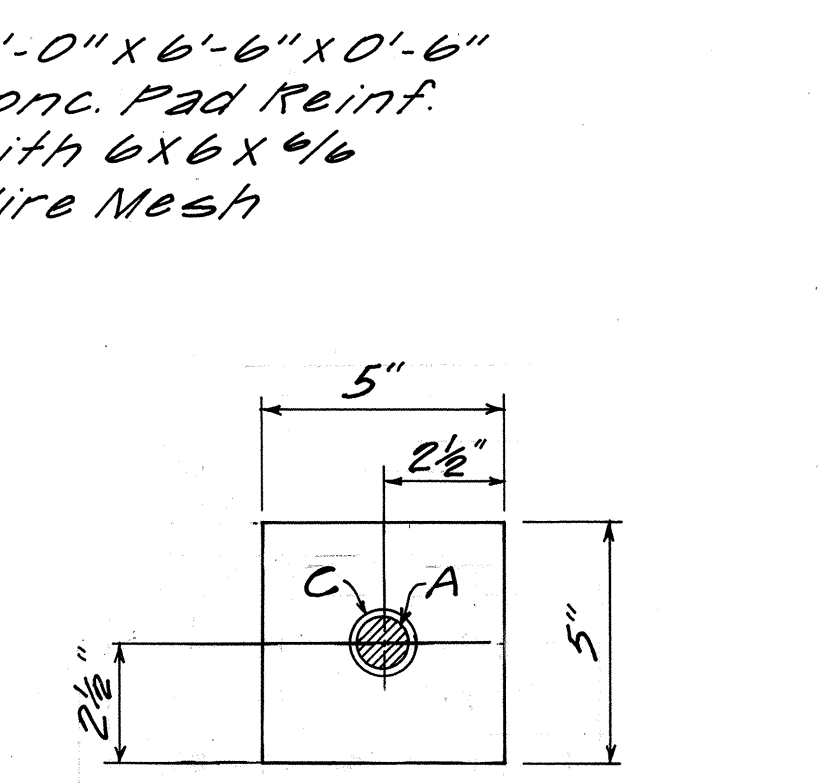
GUARD POST
NO SCALE



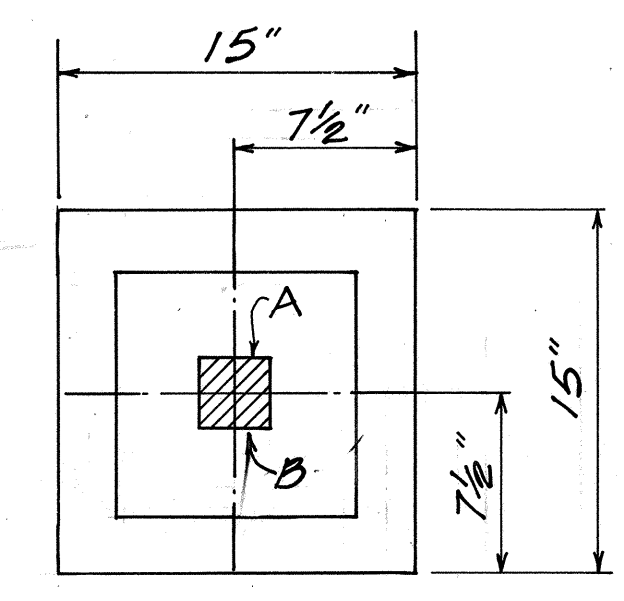
FENCING ON R BETWEEN AOOLE ST. & POST OFFICE
SCALE: 1" = 30'



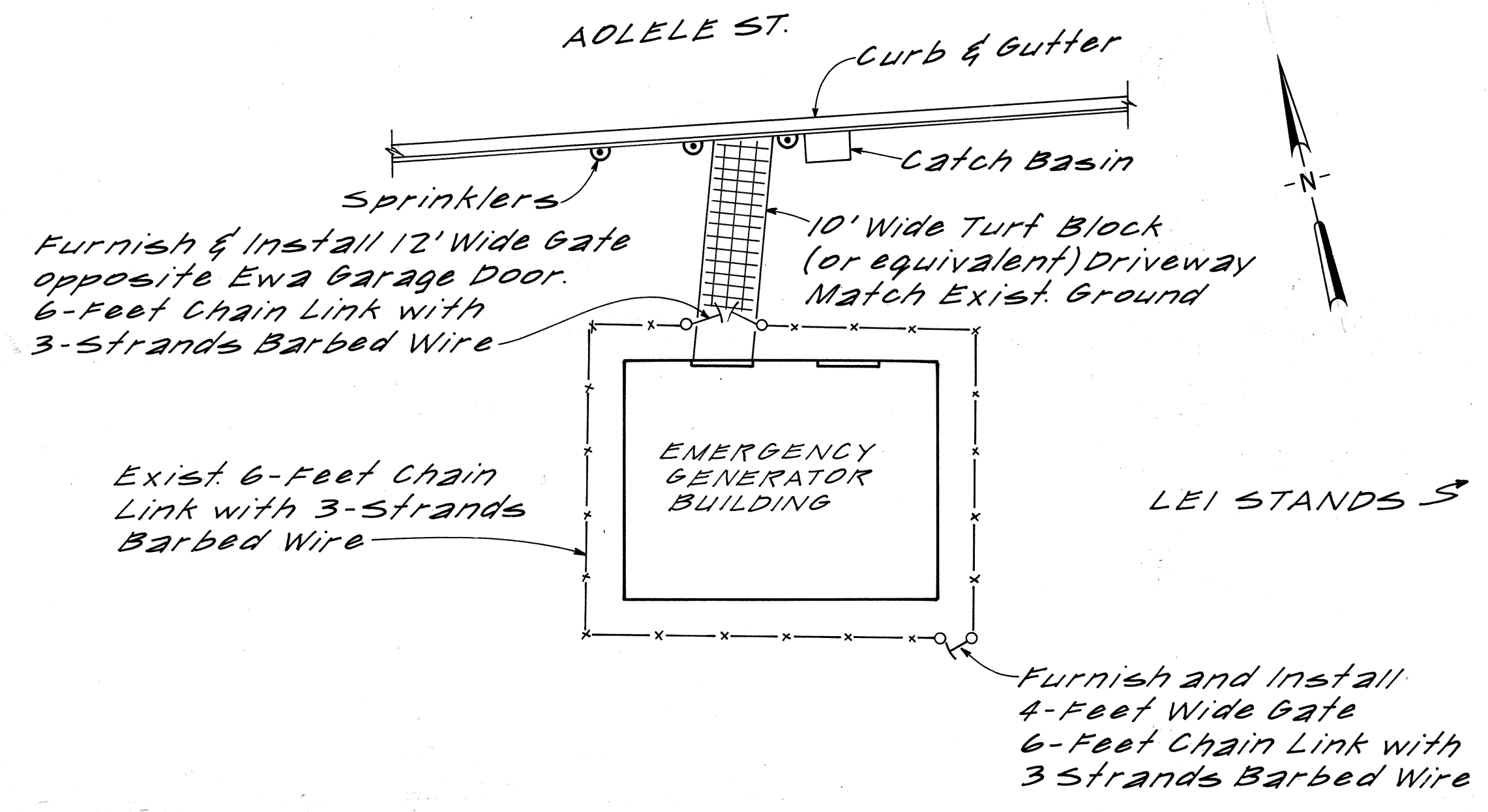
EMPLOYEE PARKING LOT GATES
SCALE: 1" = 3'-0"



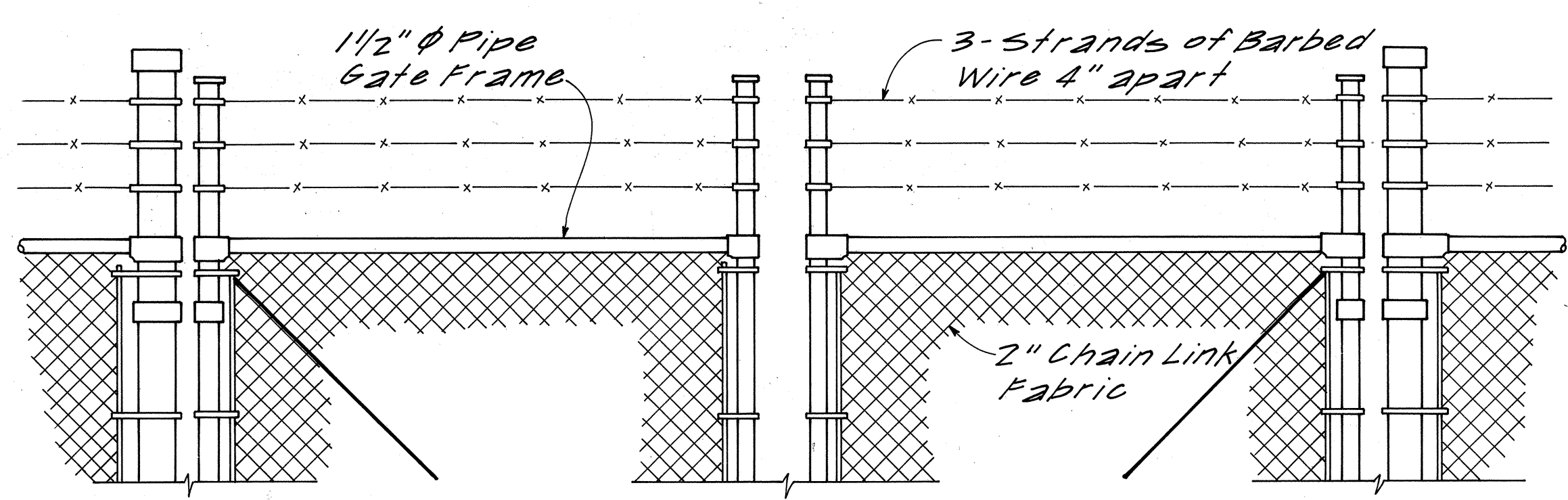
CARD OR KEY UNIT BASE
SCALE: 1/4" = 1'-0"



AUTO GATE BASE
SCALE: 1/8" = 1'-0"
A - Conduit Area - Stub 2" above Surface
B - Hole - 3x3"
C - Hole 1 1/2" Dia.

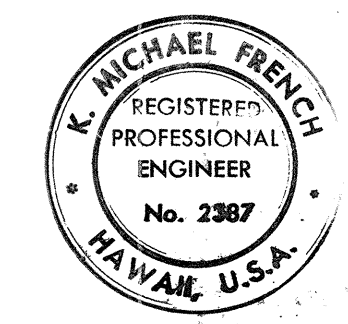


FENCE AND DRIVEWAY AT
EMERGENCY GENERATOR BLDG.
SCALE: 1" = 20'



BARBED WIRE ATTACHMENT TO CHAIN LINK FENCE
NO SCALE

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____



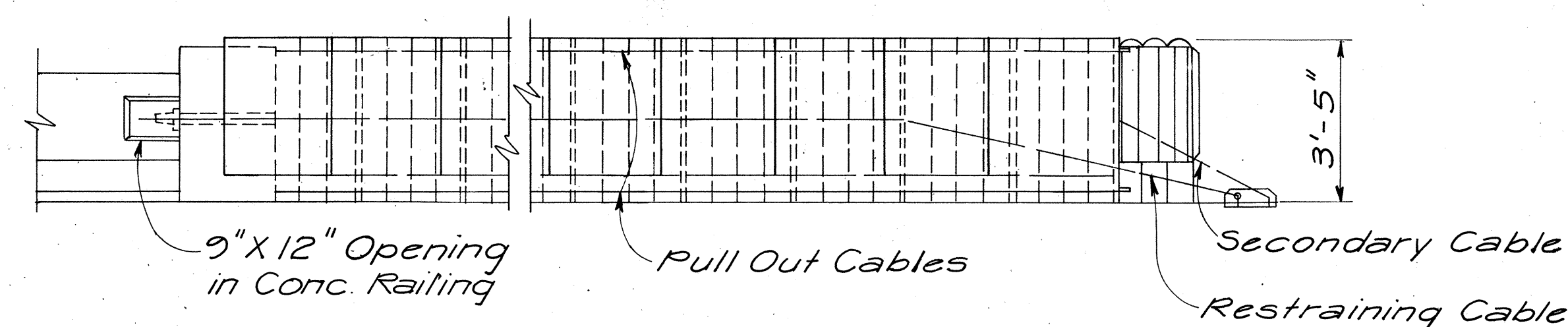
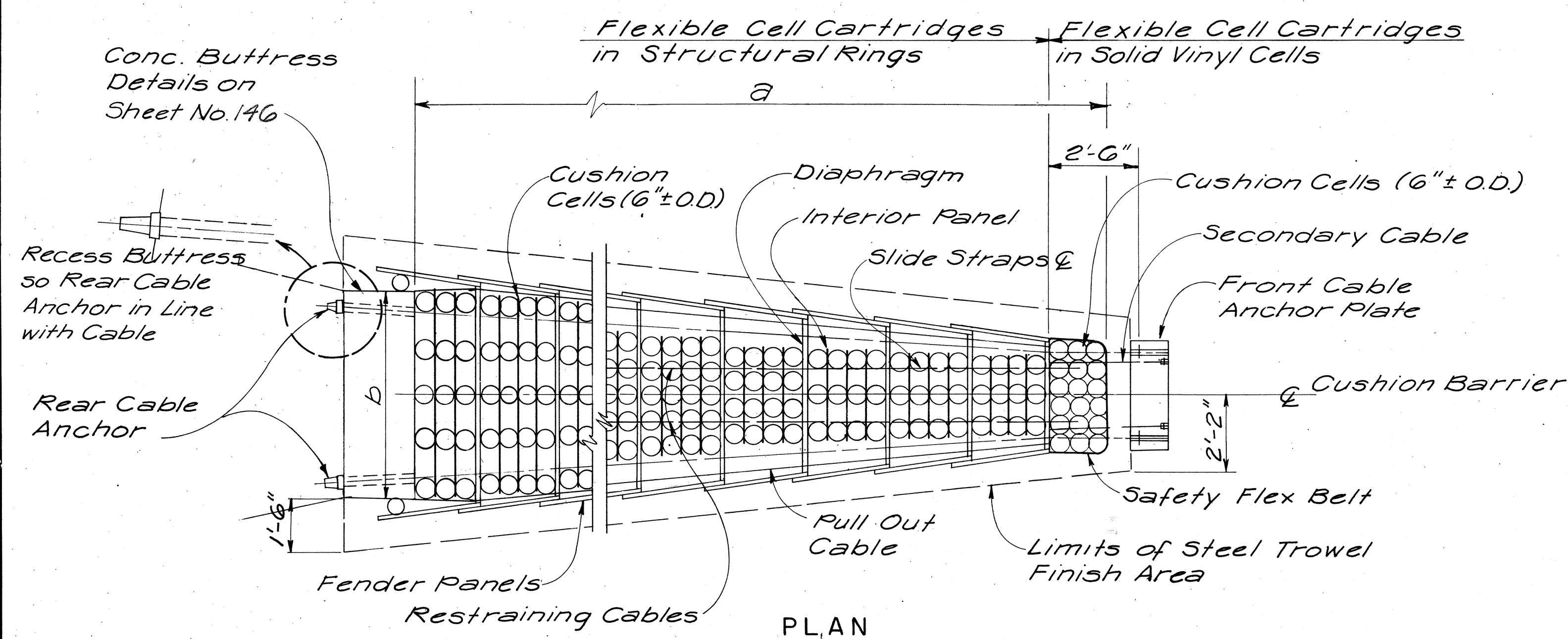
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Michael French
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PARKING GATE AND
FENCE DETAILS

AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(146)-16
SCALE AS SHOWN DATE: JUNE 1, 1979
SHEET NO. OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(146):16	1979	47	283

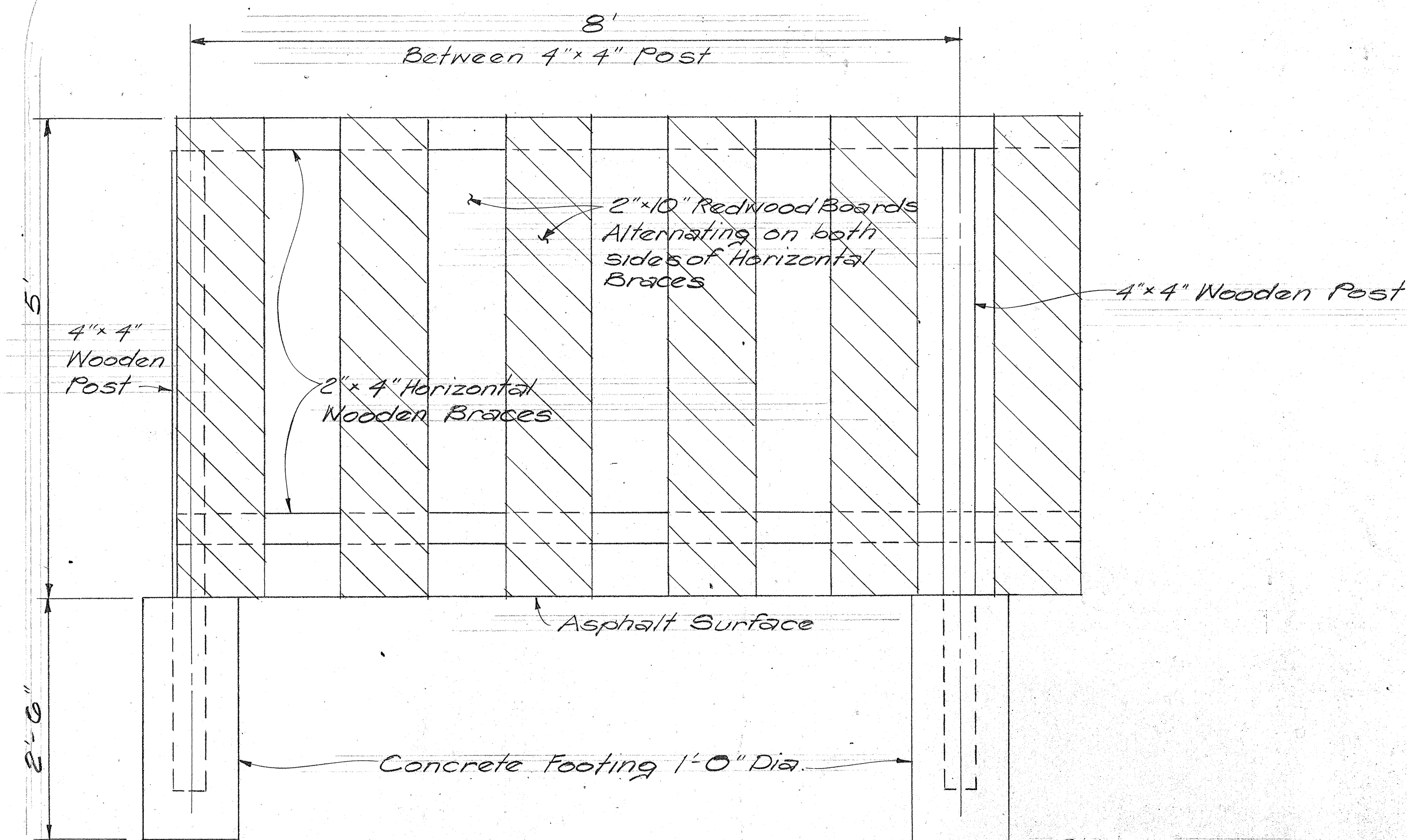


CUSHION BARRIER LAYOUT
SCALE: 3/8" = 1'-0"

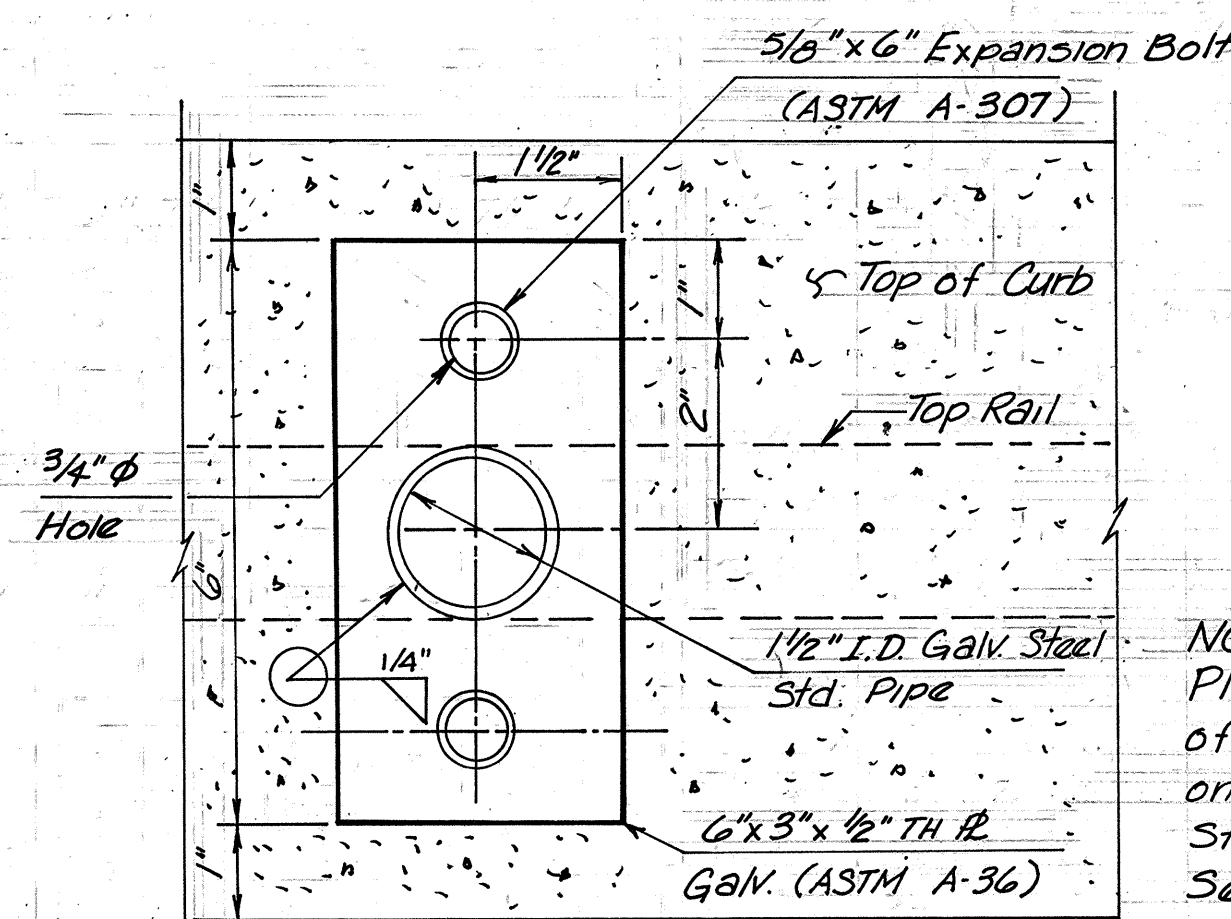
UNITS	LOCATION	a	b
8-Bay	R-WA Sta 57+58	18'-11 1/2"	5'-2"
8-Bay	R-WA Sta. 60+40	18'-11 1/2"	5'-2"

NOTES:

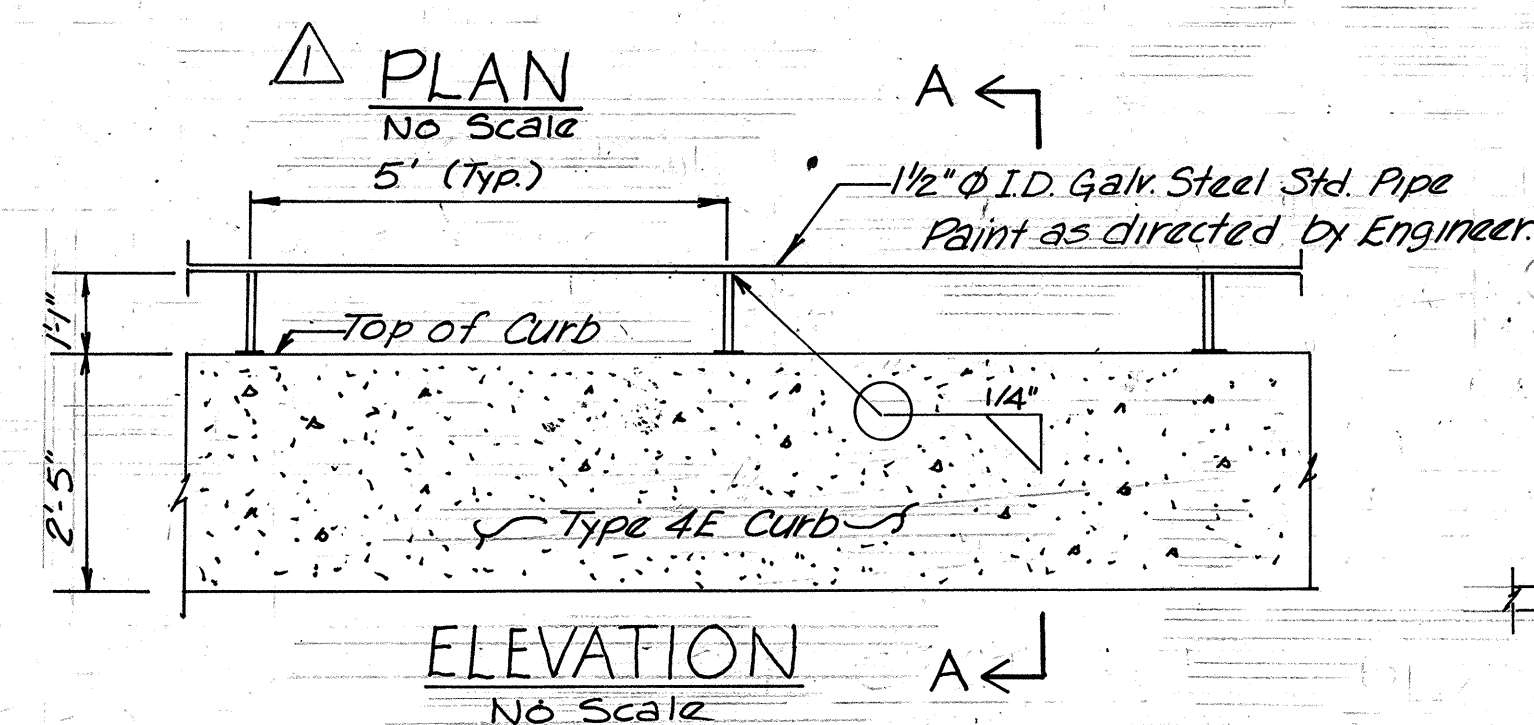
1. Steel trowel finish area shall be in one plane.
2. The Contractor shall verify all dimensions.
3. Front cable anchorage mounting straps and concrete anchor bolts shall be incidental to cushion barrier and not be paid for separately.
4. All structural steel shall be galvanized after fabrication.
5. The installation of the concrete anchor bolts to secure front cable anchor plate shall not reduce the area of reinforcing steel in the concrete deck below the allowable design limits.
6. Front end anchorage details and buttress connection details shall be as recommended by the manufacturer.



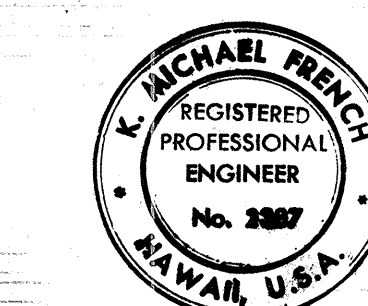
REDWOOD FENCE DETAIL
Scale: 1" = 1'-0"
Along Lowers. & Cooke St
See sheets 9 & 11.



NOTE:
Place pipe railing on top of existing Type 4E Curb on right side of Aolele St Sta 102+40 to 104+50. See COADD18 Proj. I-HI-1(123):16.



SECTION A-A



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Signature

11-80	Added Pipe Rail on Aolele St.
NO. DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**CUSHION BARRIER
REDWOOD FENCE**

AIRPORT INTERCHANGE
FAI PROJ. NO. I-HI-1(146):16
SCALE: AS SHOWN DATE: JUNE 1, 1979
SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(146)16	1979	48	283

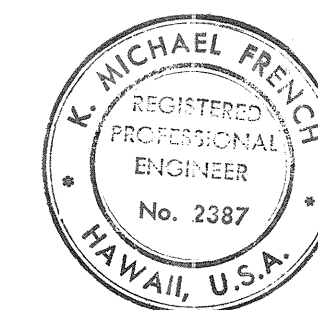
NOTES:

1. The Customer is to furnish materials and construct the facilities for the padmounted transformer including the concrete pad, primary & secondary Ducts, and Anchor Bolts.
2. Primary Ducts: The Bends into the primary compartment of the padmount transformer may be Galvanized Steel Conduit or PVC with a 3'-0" radius.
3. Secondary Ducts: The Customer is to supply and install the secondary ducts and cables. The secondary cables are to be a minimum of 5'-0" long from the end of the duct.
4. HECO shall have 24-Hour access to the transformer without going through locked areas.
5. HECO shall have a minimum 10' wide vehicular access to the transformer.
6. Bends due to changes of grade are to have a minimum radius of 20'-0". The ducts are to be as shown in the duct encasement details and are to run in a straight line from pad to existing duct.
7. One copperweld ground rod 5/8" ϕ x 8'-0" long is to be provided by HECO & installed by the customer. The customer is to pick up the rods at the HECO Ward Avenue Supply Room. The rod is to extend 6" above the finished pad. Tie the rod to a water pipe with #10 copper wire. This tie may be eliminated where the water pipe is more than 25' away.
8. No permanent or temporary structure or object shall be erected or placed within the indicated clear space.
9. All duct lines shall contain a Polyolefin Pull Line (Jet Line Cat #232 or equivalent).
10. After the conduits are installed, the customer shall pass a smooth bullet-shaped wooden test mandrel through the entire length of each conduit to test for freedom of burrs and obstructions.
11. Select Backfill: As specified in HECO's Service Installation Manual.
HECO's metering facilities shall be installed in readily accessible, preferably unlocked, areas. However, when HECO's metering facilities or any other equipment accessible to HECO is located in enclosed areas which are locked, these areas shall be provided with doors or covers which are padlockable or fitted with a cylinder type Best Universal Lock. HECO will provide the padlock or cylinder.
12. Two primary ducts are required to facilitate maintenance of service in the future. Horizontal bends are to have a minimum radius of 30'-0".

CONCRETE PAD NOTES:

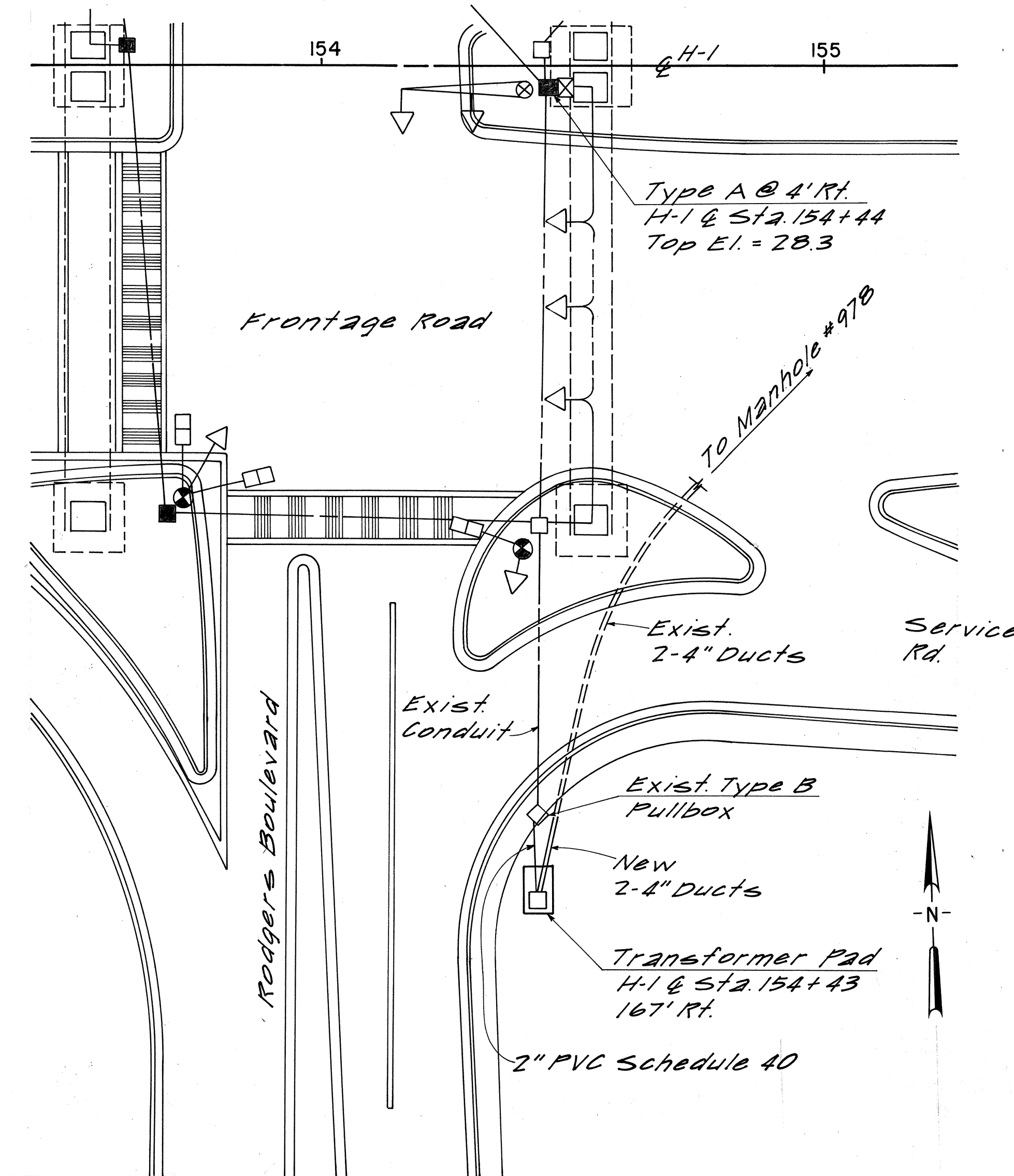
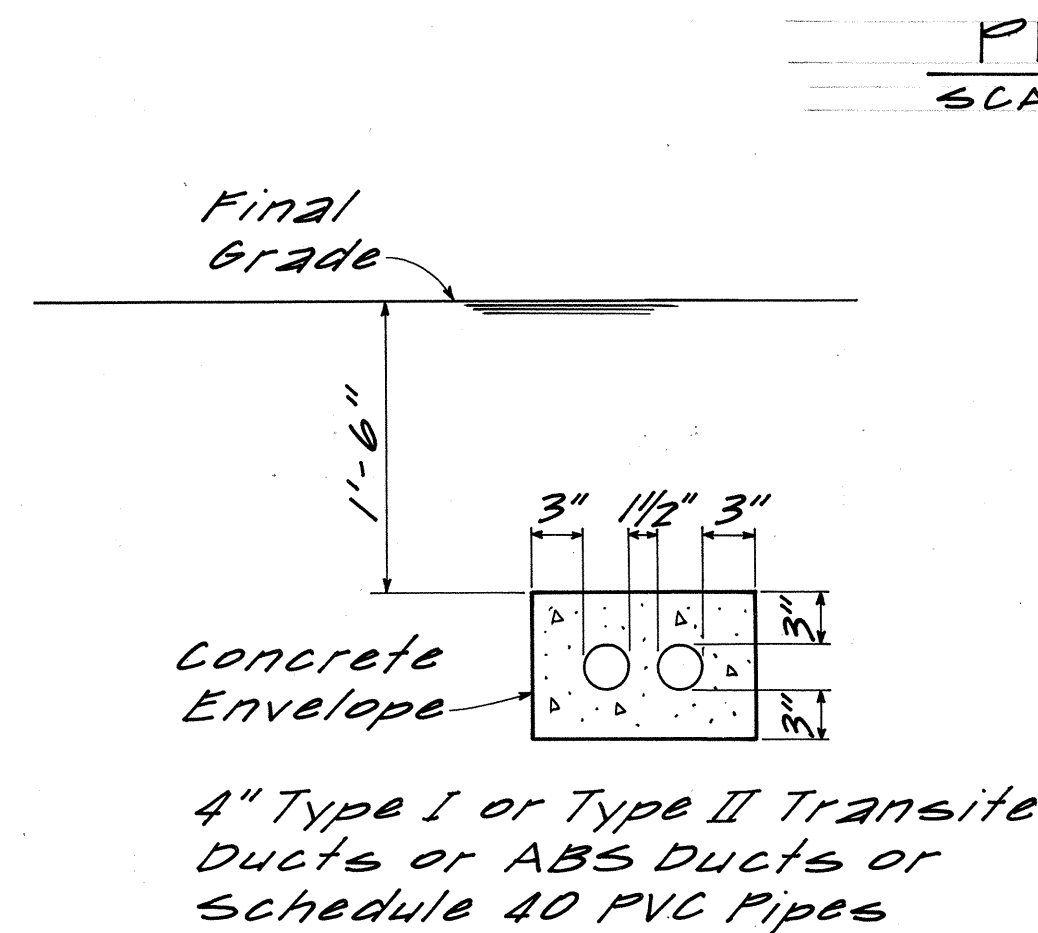
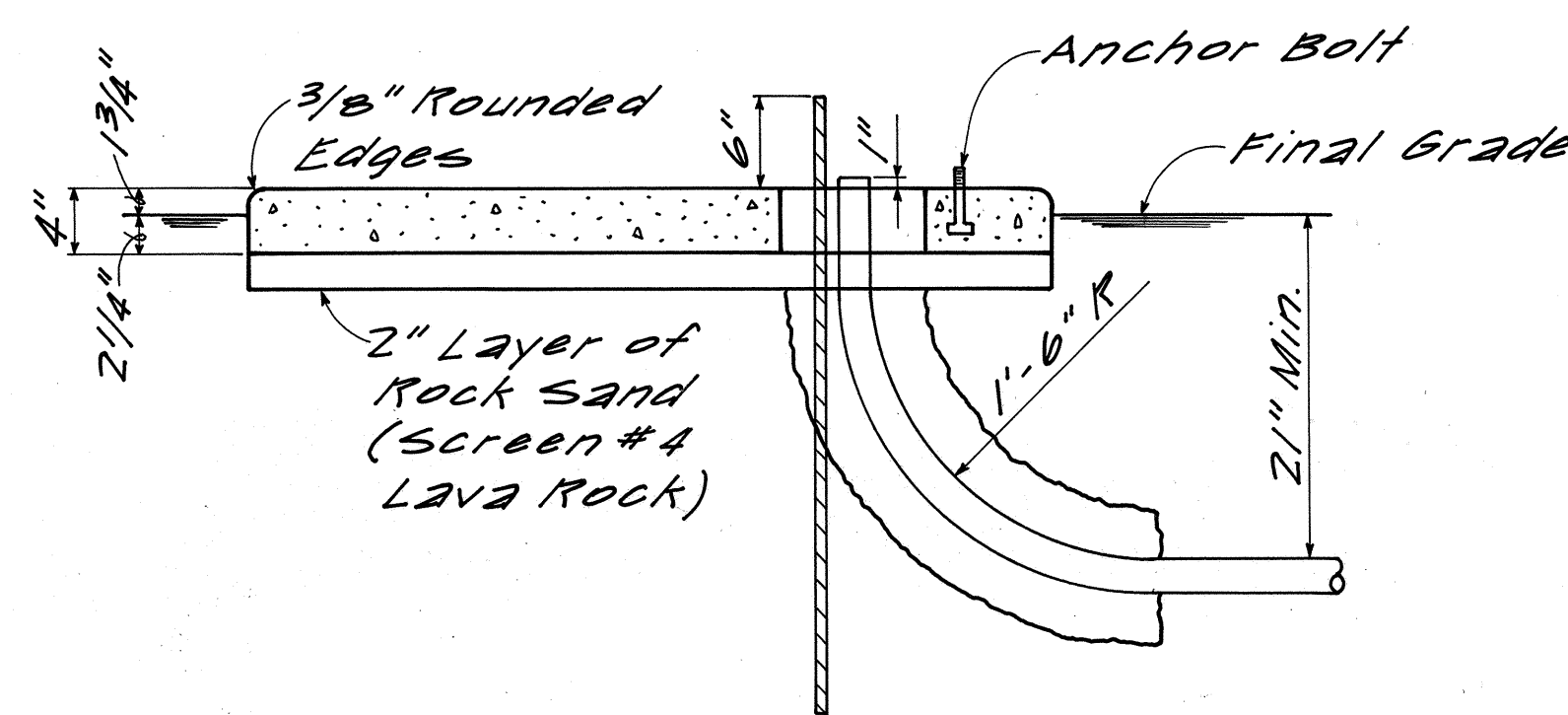
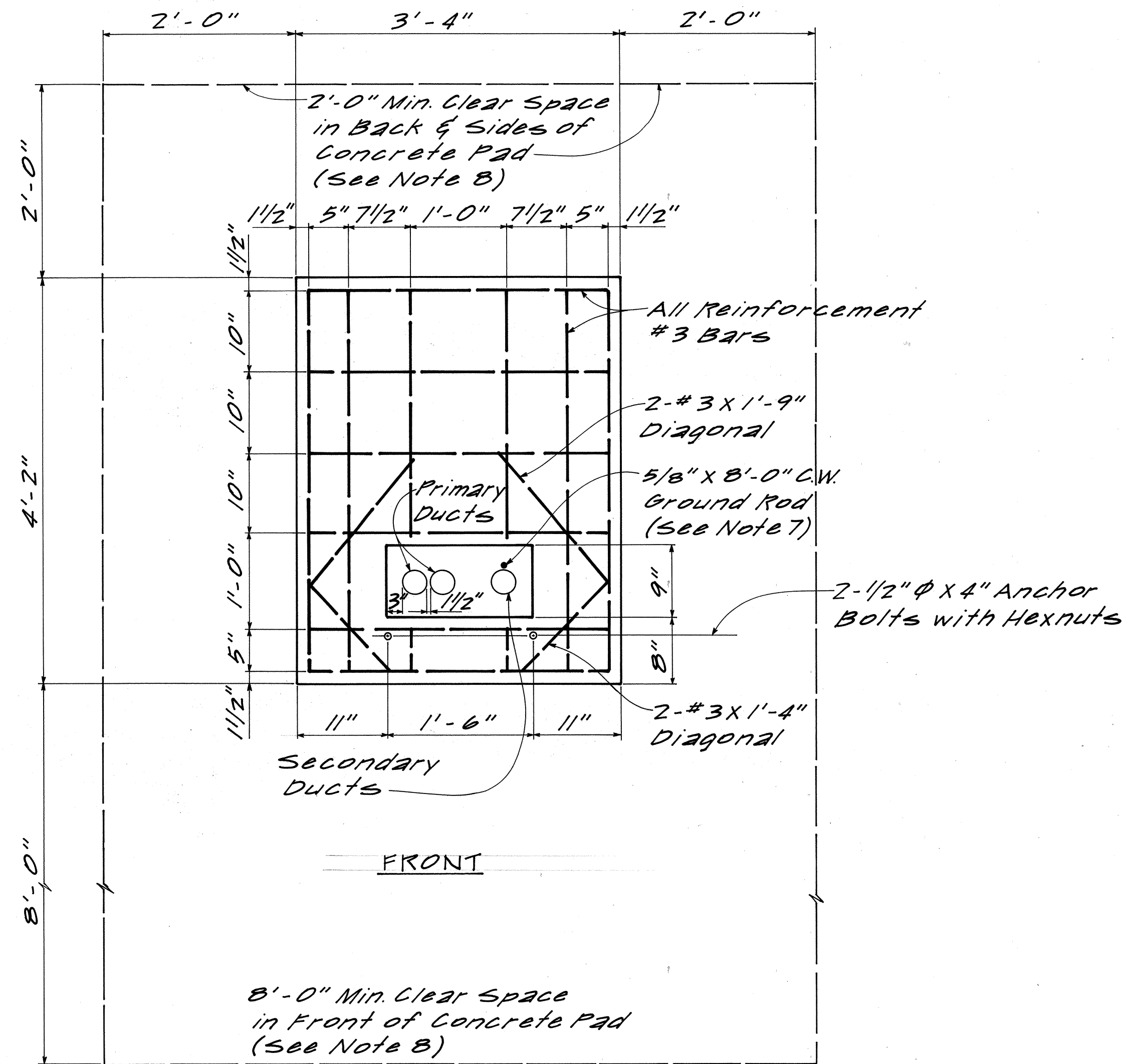
1. Compressive Strength: 3,000 p.s.i. in 28 days.
2. Reinforcing: Clean and new round deformed bars.
3. Cure by approved method.
4. Top of concrete pad to be smooth, true, and level. Other exposed surfaces to be smooth and free from defects.

NOTE: Refer to HECO Standard Drawing No. 30-1035 Rev. 4 Sheet 1 dated 10/5/79



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
K. Michael French
Signature

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION LAND TRANSPORTATION FACILITIES DIVISION	
HAWAIIAN ELECTRIC CO. SYSTEM	
AIRPORT INTERCHANGE F.A.I. PROJ. NO. 1-HI-1(146)16	
SCALE AS SHOWN DATE: _____	
SHEET NO. _____	OF _____ SHEETS



DATE: _____	SURVEY PLOTTED BY: _____
DESIGNED BY: _____	DRAWN BY: _____
CHECKED BY: _____	NOTED BY: _____
ORIGINAL PLAN	NOTE BOOK
No. _____	No. _____