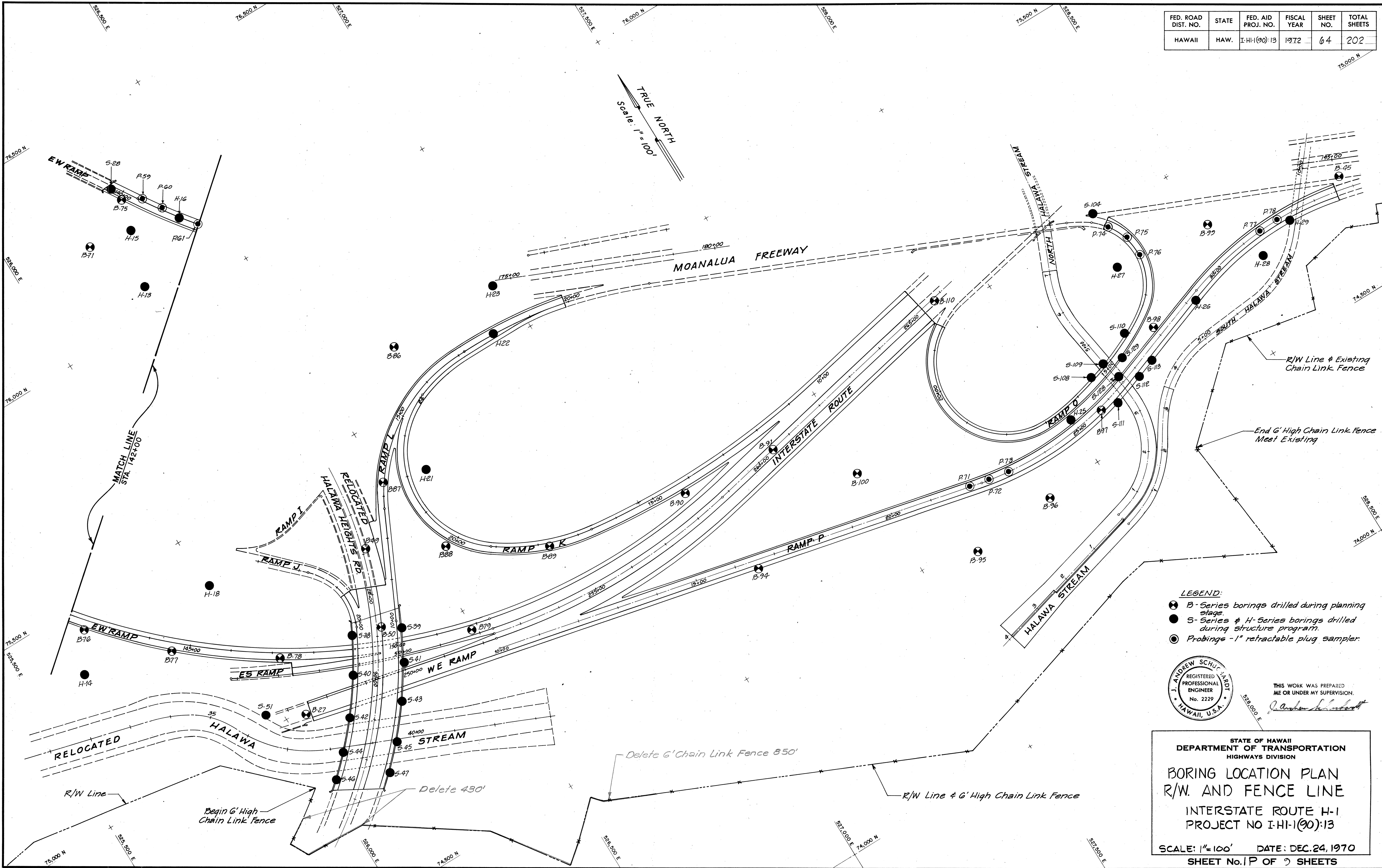


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(90):13	1972	64	202

DATE	_____
DESIGNED BY	_____
TRACED BY	_____
CHECKED BY	_____
NO.	_____



- LEGEND:**
- B-Series borings drilled during planning stage.
 - S-Series & H-Series borings drilled during structure program.
 - Probing - 1" retractable plug sampler.



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HIGHWAYS DIVISION

**BORING LOCATION PLAN
R/W. AND FENCE LINE**

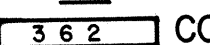
INTERSTATE ROUTE H-1
PROJECT NO I-HI-1(90):13

SCALE: 1"=100' DATE: DEC. 24, 1970
SHEET No. 1 P OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	[H-1(90):13	1972	65	202

GENERAL NOTES

- NUMBER ADJACENT TO BORINGS REPRESENT BLOWS OF A 140 LB. HAMMER FALLING 30" PER FOOT OF PENETRATION OF SAMPLER, EITHER SPLIT SPOON (2" O.D. 1-3/8" I.D.) OR SHELBY TUBE, IDENTIFIED BY "SP" OR "SH" RESPECTIVELY.

-  WATER LEVEL
-  COHESION VALUE FROM UNCONFINED COMPRESSION TEST. (PSF)
- SOIL SYMBOL REPRESENTS A GENERALIZED CLASSIFICATION. SEE BORING LOGS FOR DETAILED CLASSIFICATION.
- NUMBER LISTED AT TOP OF EACH BORING IS ORIGINAL GROUND SURFACE ELEVATION.

ABBREVIATIONS

SH.	SHELBY
SP.	SPLIT SPOON
WH.	WEIGHT OF HAMMER
P	PUSH
HYD	HYDRAULIC
PR.	PRESS
NX.	% RECOVERY OF ROCK CORE
C1, C2, etc.	% RECOVERY OF ROCK CORE

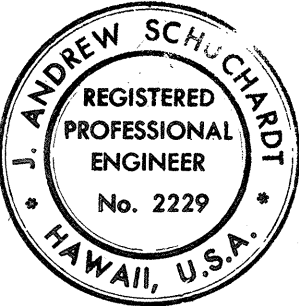
LEGEND

	GRAVEL		SCORIAEOUS LAVA
	BOULDERS		ASH
	SAND		WEATHERED ROCK
	SILT		TUFF
	CLAY		BASALTIC ROCK
	MUCK OR ORGANIC SILT		

* COHESION VALUES ARE SHOWN FOR 'B'-SERIES BORINGS ONLY. ADDITIONAL VALUES FOR THE 'H' AND 'S'-SERIES BORINGS BASED ON UNCONFINED COMPRESSION AND TRIAXIAL COMPRESSION TESTS ARE AVAILABLE FOR CONTRACTOR'S USE.

PROBING LOGS ARE NOT DEPICTED. INSPECTOR'S BORING AND PROBING LOGS ARE AVAILABLE FOR CONTRACTOR'S USE.

FOR BORING LOCATIONS SEE SHEET 1P.



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HIGHWAYS DIVISION

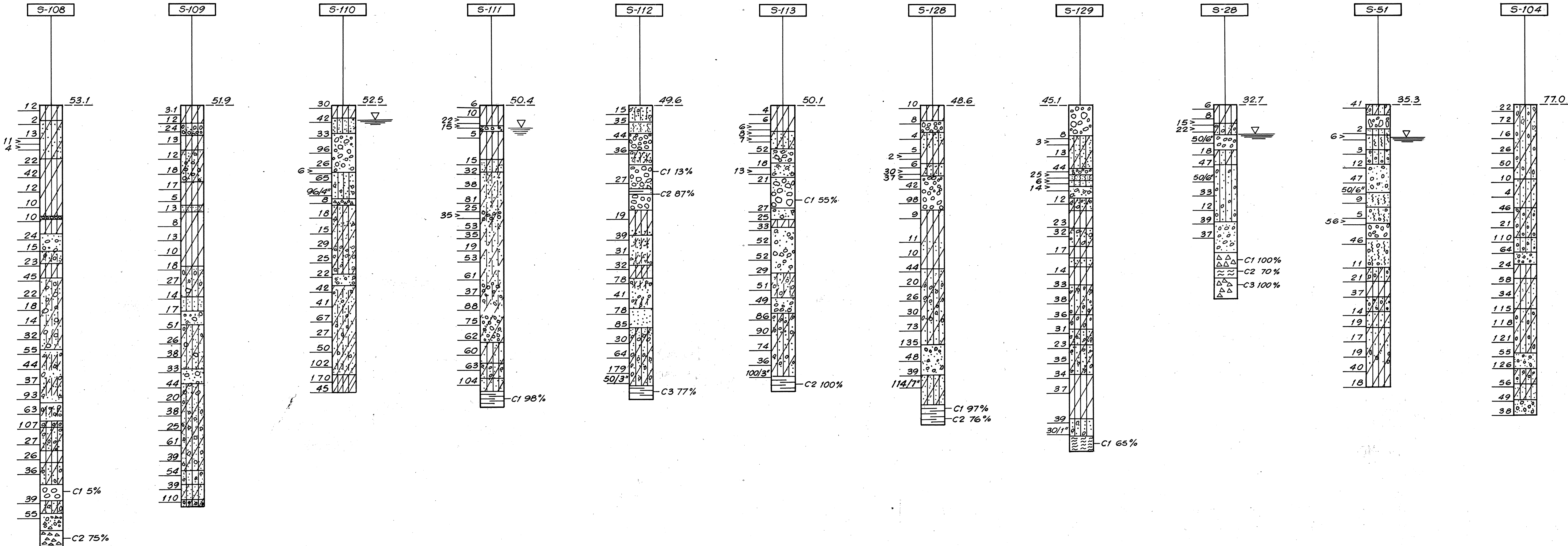
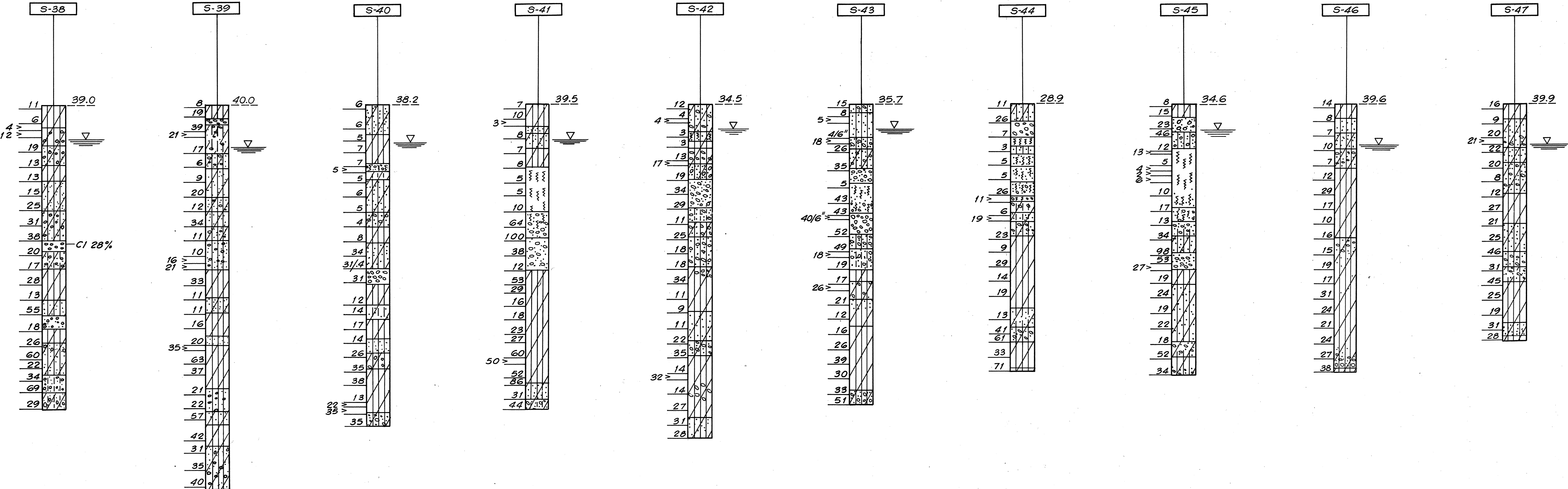
BORING LOGS

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(90):13

SCALE: VERT. 1"=20' DATE: DEC. 24, 1970

SHEET No. 2P OF 2 SHEETS

65



DATE	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL	_____
PLAN	_____
No.	_____

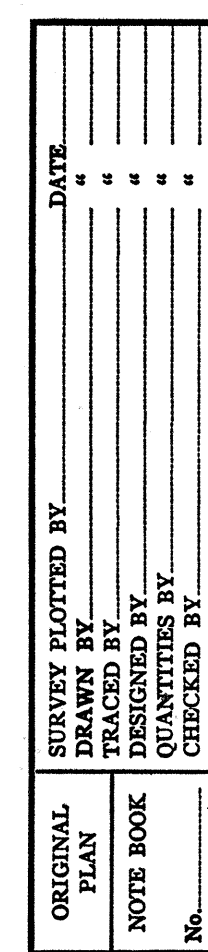
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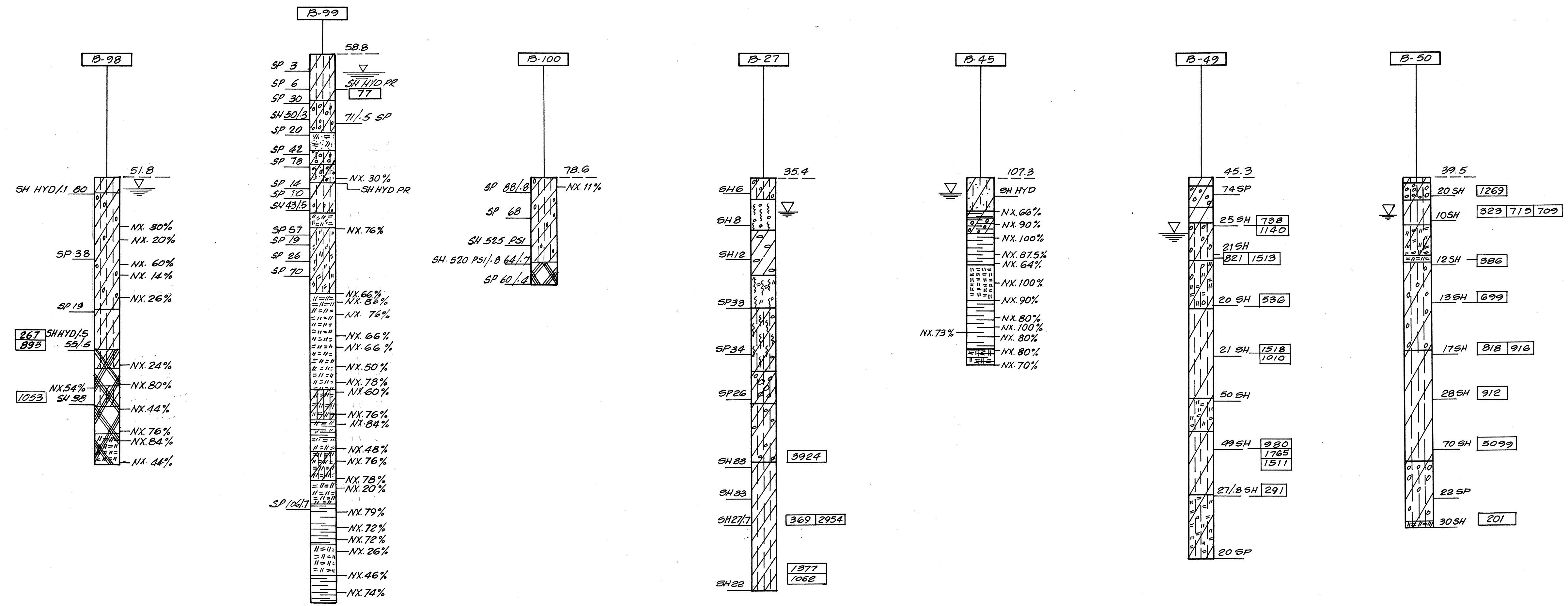
**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

INTERSTATE ROUTE H-1
PROJECT NO I-HI-1(90):13

GG

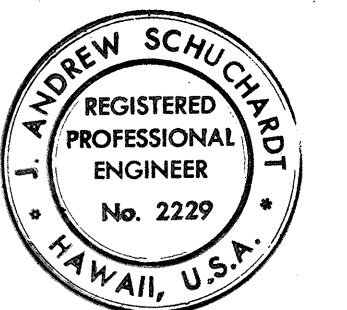
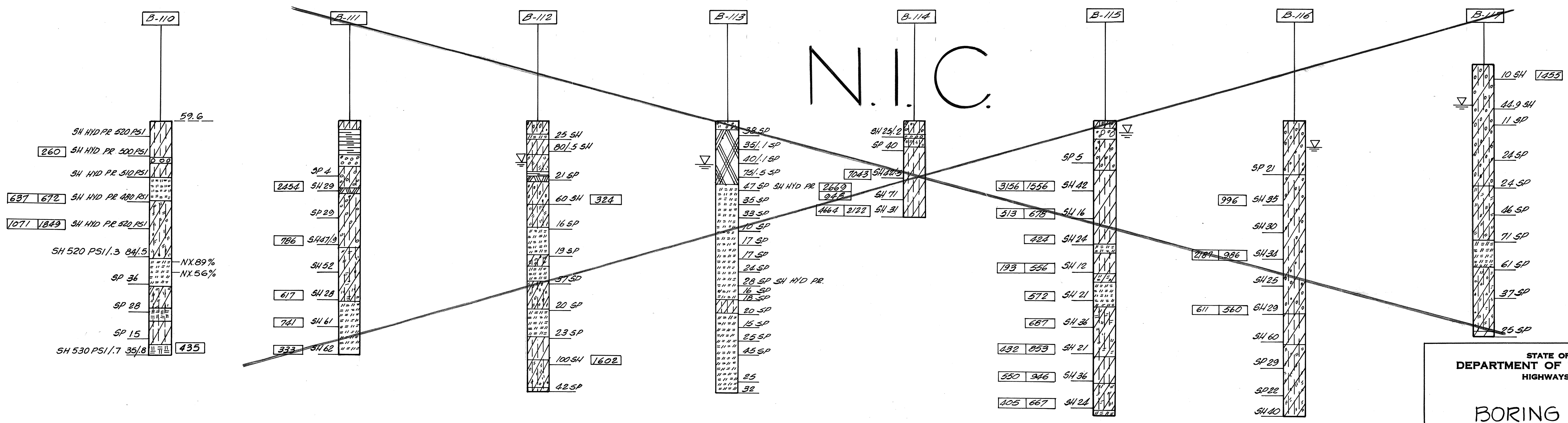


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(90)-13	1972	67	202



NOTE:
 For General Notes, Abbreviations
 and Legend see Sheet 2P.

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 HIGHWAYS DIVISION

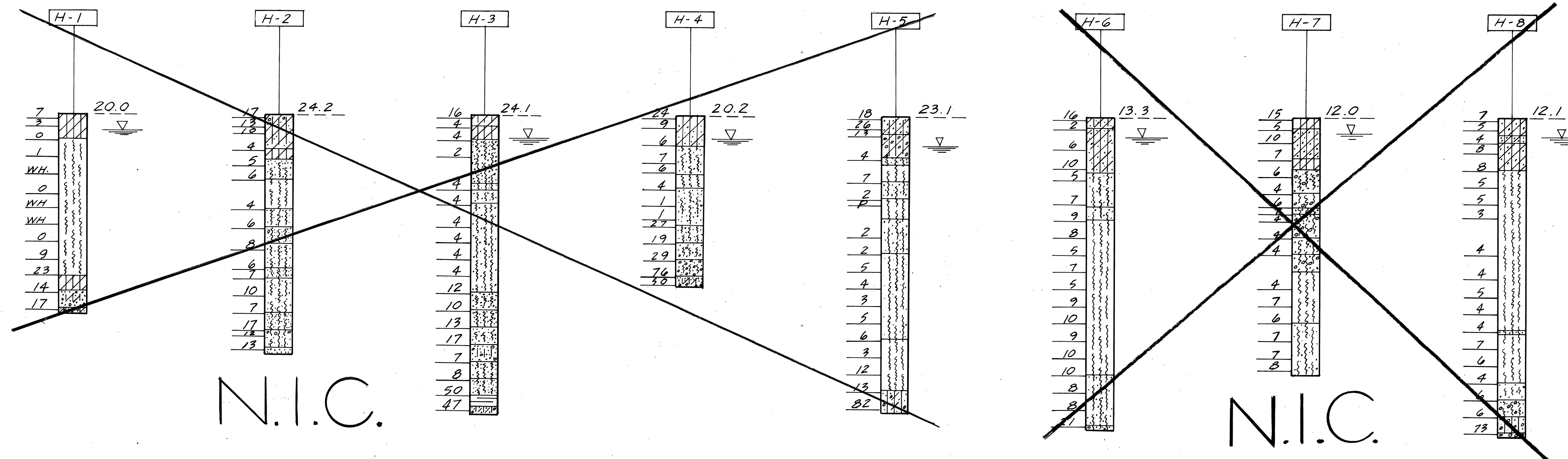
BORING LOGS

INTERSTATE ROUTE H-1
 PROJECT NO I-HI-1(90)-13

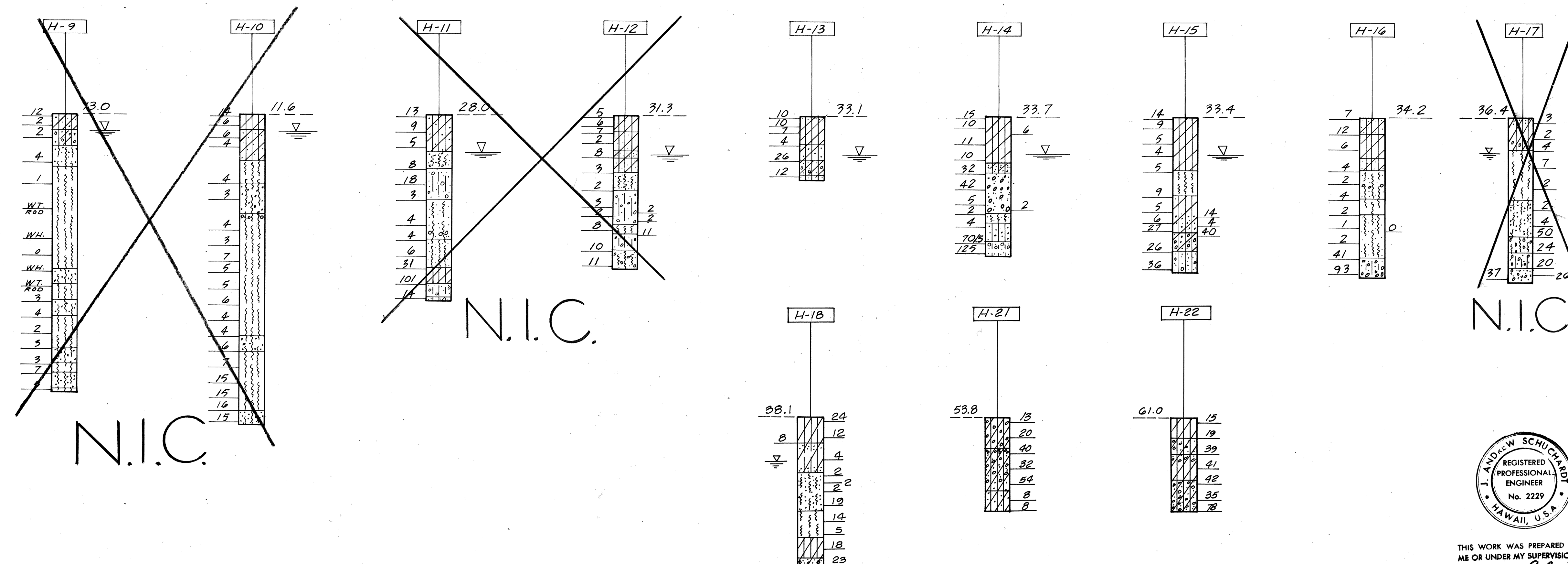
SCALE: VERT. 1"=20' DATE: DEC. 24, 1970
 SHEET No 4 P OF 7 SHEETS

DATE	BY
ORIGINAL	PLANNED BY
PLAN	DESIGNED BY
NOTE BOOK	QUANTITIES BY
No.	CHECKED BY

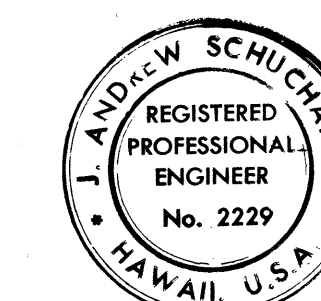
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(90):13	1972	68	202



Scale: Vert. 1"=20'



NOTE:
For General Notes, Abbreviations,
and Legend see Sheet 2P.



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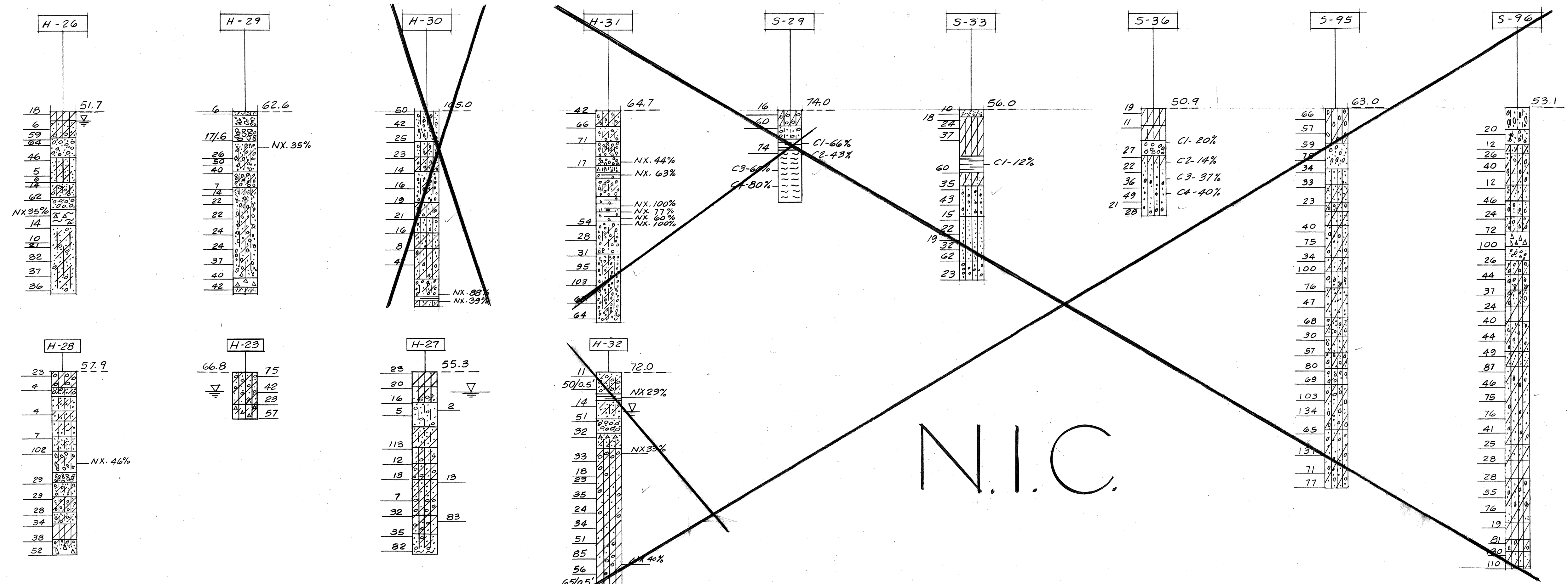
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

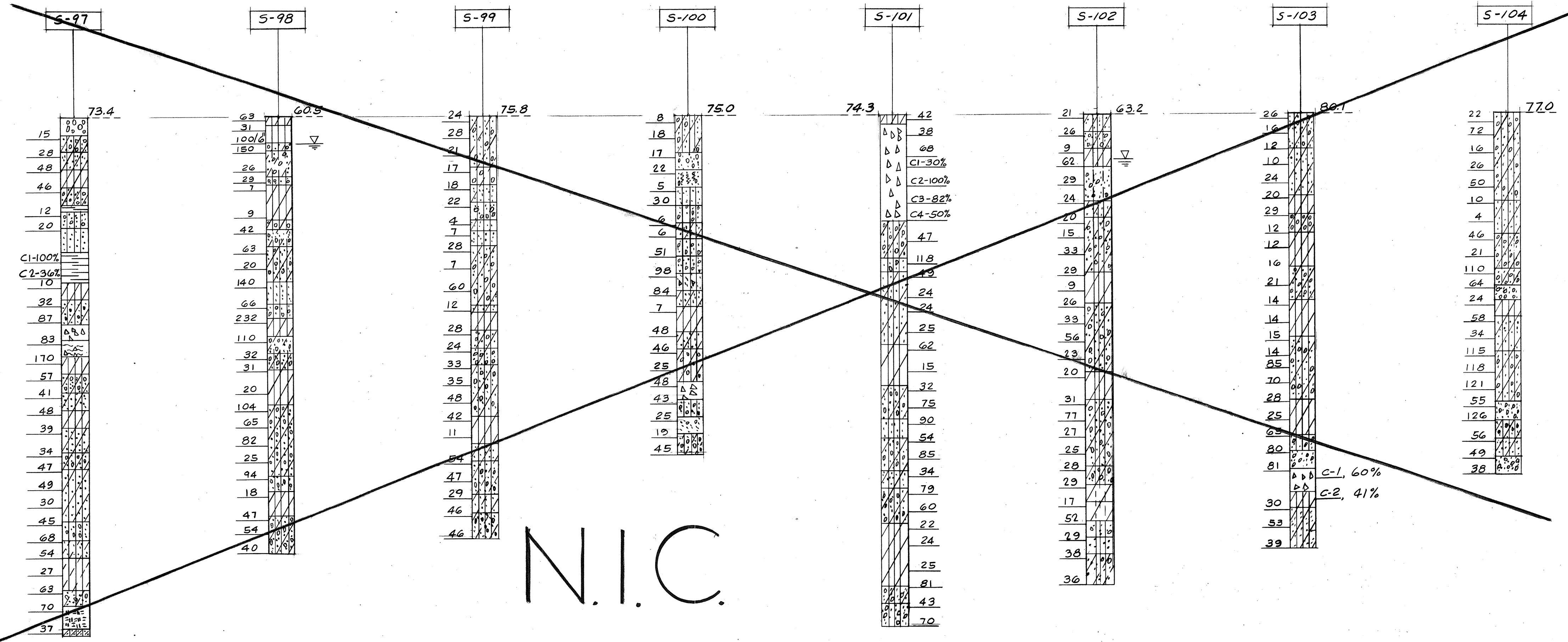
INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1 (90):13
SCALE: Vert. 1"=20' DATE: DEC. 24, 1970
SHEET No. 5 P OF 7 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(90):13	1972	69	202



N.I.C.



N.I.C.

FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET 2P

ORIGINAL PLAN	DATE
DESIGNED BY	
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	



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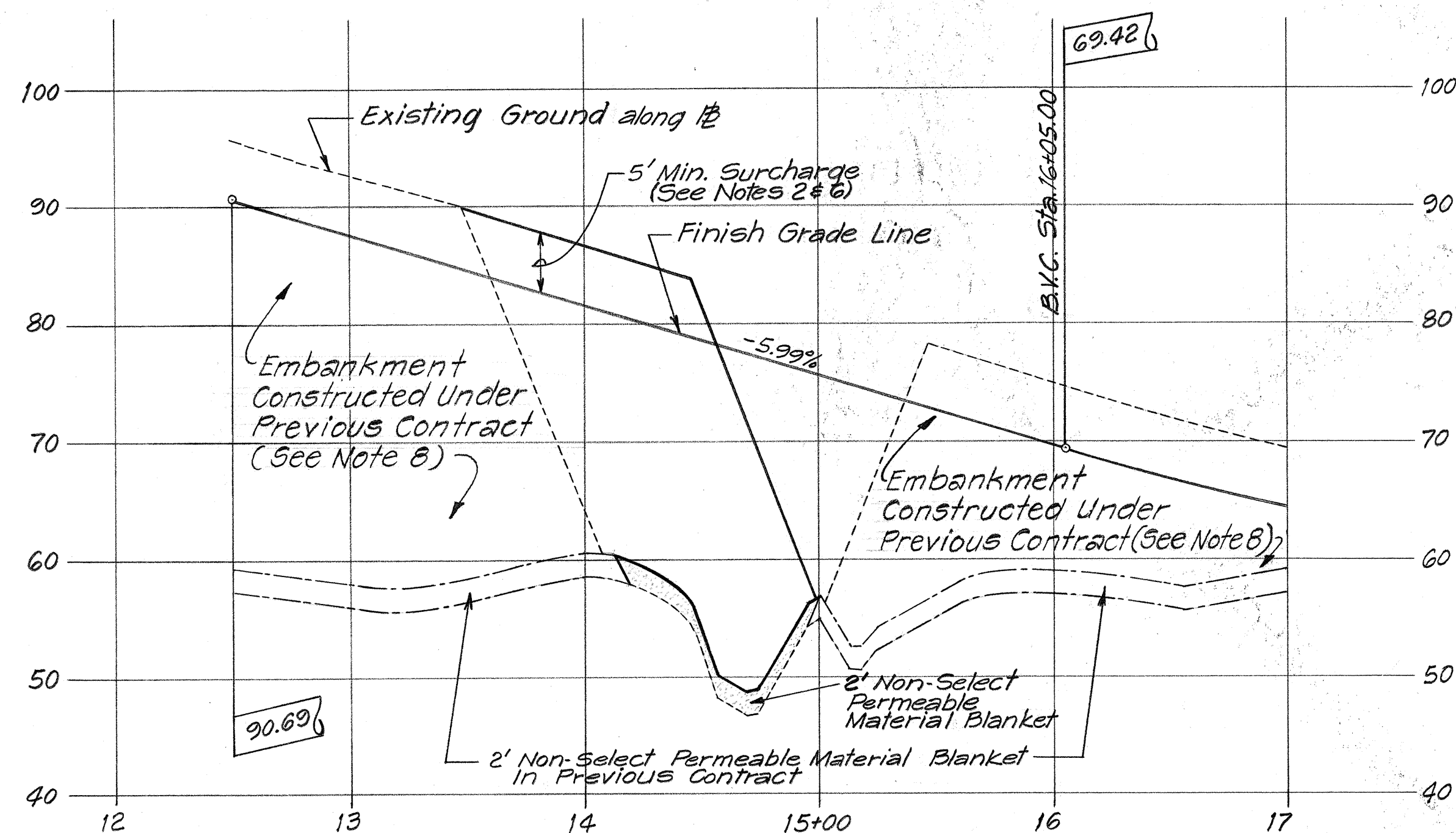
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(90):13

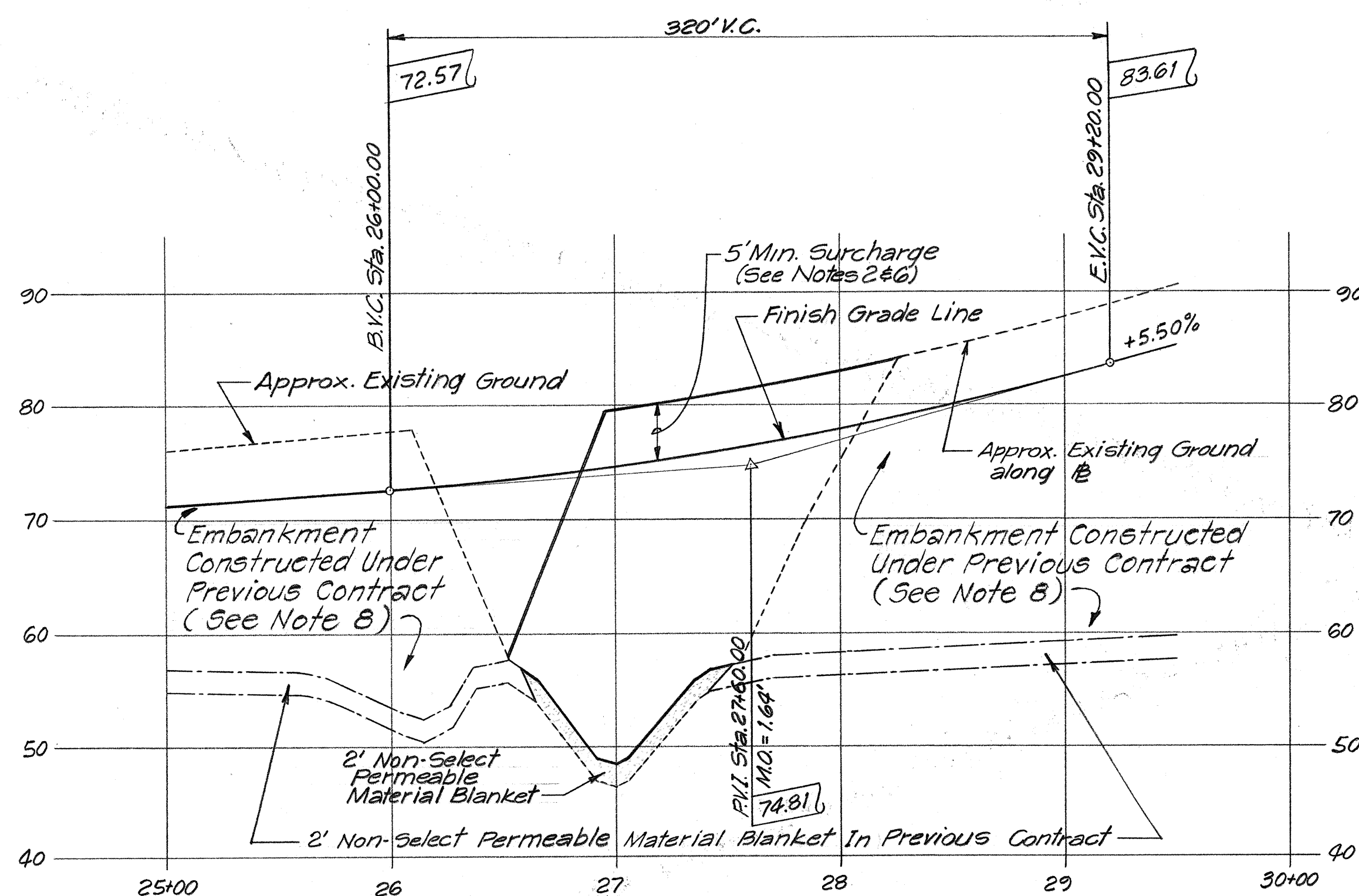
SCALE: VERT. 1"=20' DATE: DEC. 24, 1970
SHEET No. 69 OF 70 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(90):13	1972	70	202



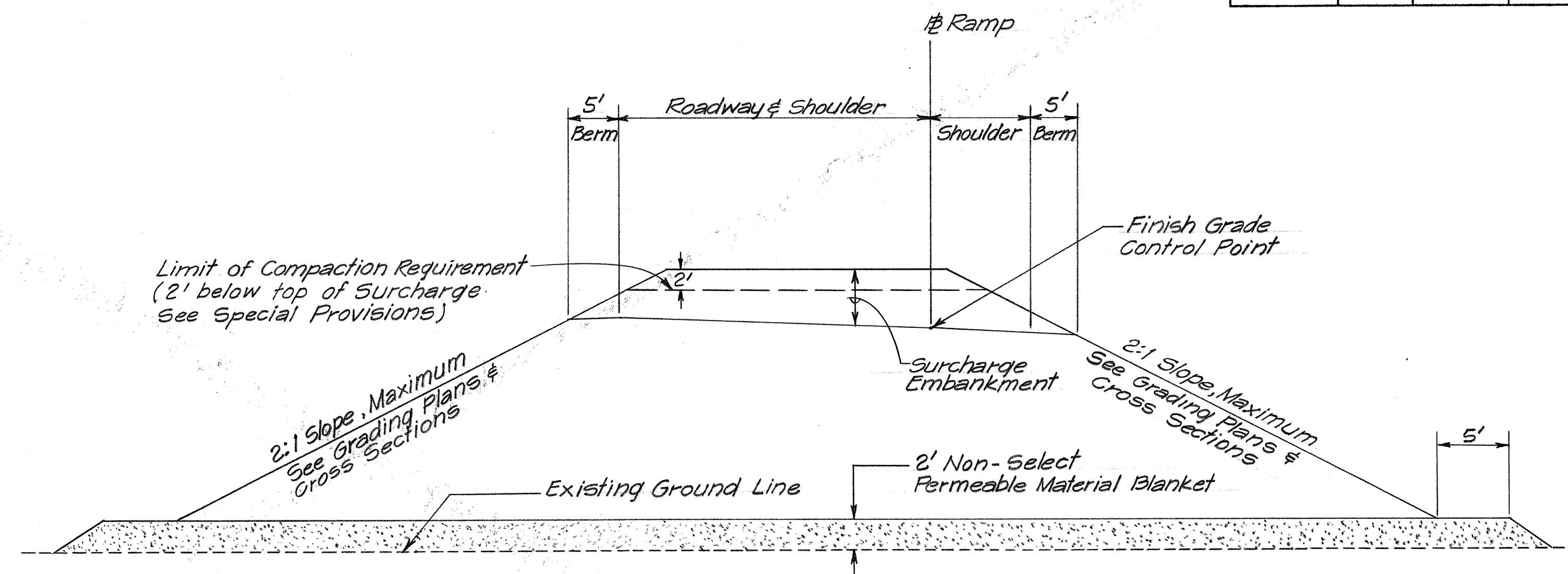
PROFILE - RAMP 0

Scales: Horiz. 1" = 50'
Vert. 1" = 10'



PROFILE - RAMP P

Scales: Horiz. 1" = 50'
Vert. 1" = 10'

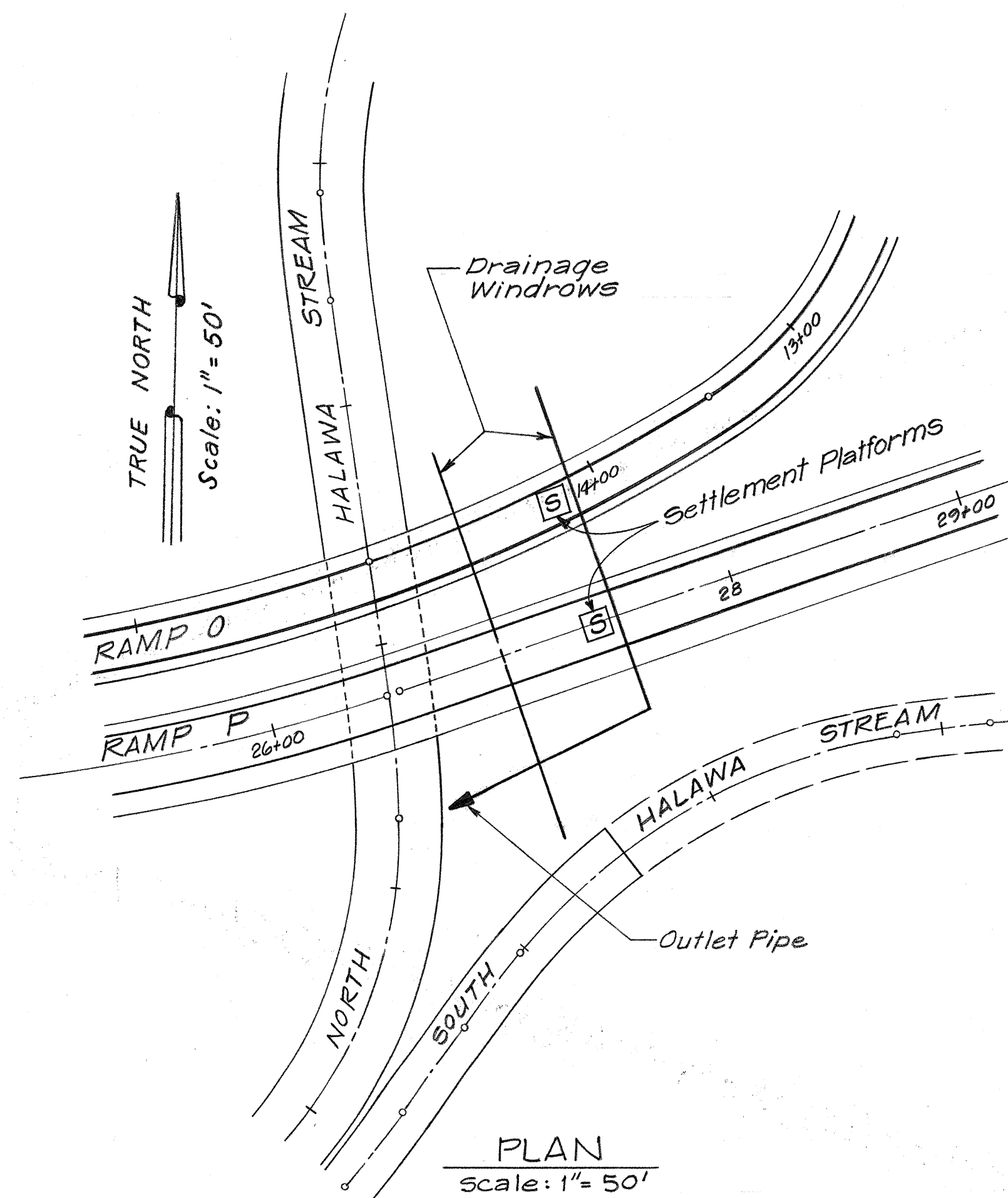


RAMP - TYPICAL SECTION

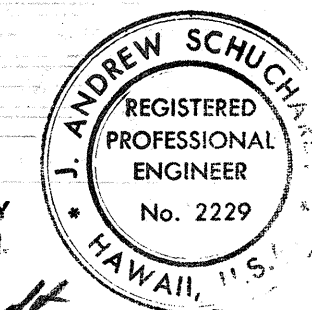
NOT TO SCALE

NOTES:

1. North and South Halawa Stream Flow is to be maintained at all times during construction. Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow, the cost of which shall be incidental to construction of the stream channels and culverts.
2. 5' minimum surcharge applies to high point of Roadway Template as determined from Superelevation Diagram.
3. For Roadway dimensions see Alignment drawings.
4. The 2' Non-Select Permeable Material Blanket shall not be exposed to contamination by unsuitable material before the first lift of Embankment is placed on it. The edge of the 2' Blanket shall extend 5' beyond the Embankment Toe of slope and shall remain open to drain.
5. The 2' Non-Select Permeable Material Blanket shall not contain more than 10% by weight of Material passing a No. 200 Mesh Screen.
6. Surcharge is to be in place 365 days prior to construction of Roadway.
7. Payment for Non-Select Permeable Material Blanket shall be incidental to Roadway Excavation.
8. For areas surcharge under Project No. I-HI-1(88):13 see Sheet No. 71A.



PLAN
Scale: 1" = 50'



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SOIL STABILIZATION PLAN
PROFILE AND TYPICAL SECTION

INTERSTATE ROUTE H-1
PROJECT NO I-HI-1(90):13

SCALE: AS SHOWN DATE: DEC. 24, 1970

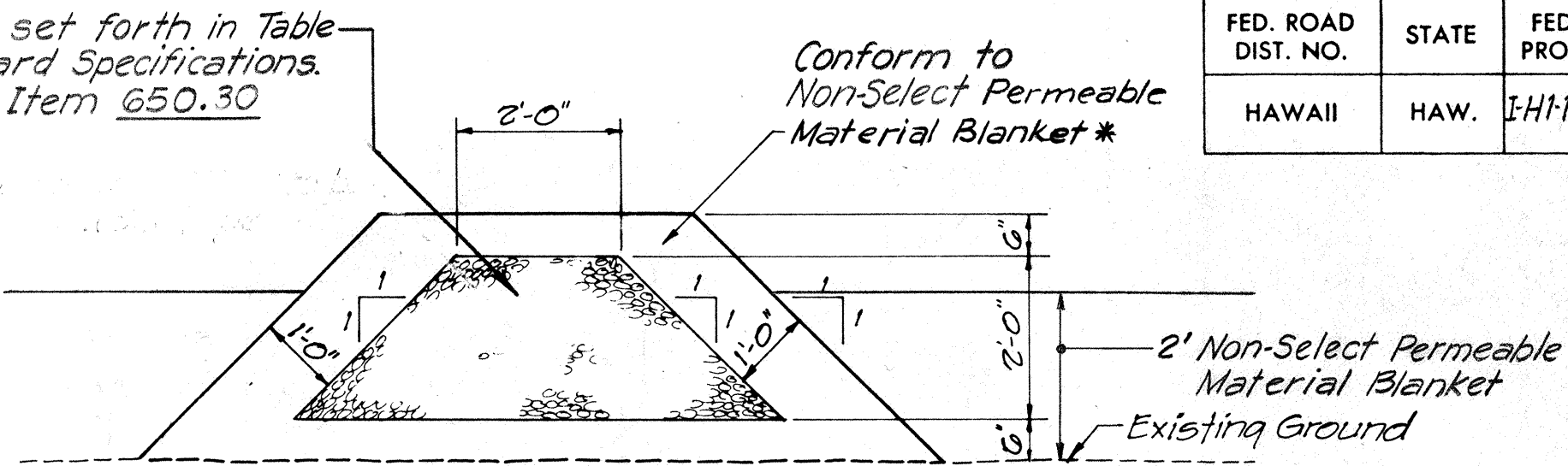
SHEET No. 7P OF 9 SHEETS

70

CONTR 11-6

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(90):13	1972	71	202

Gravel Windrow - Gradation as set forth in Table 703-II (Size No. 57) of the Standard Specifications. Payment shall be made under Item 650.30

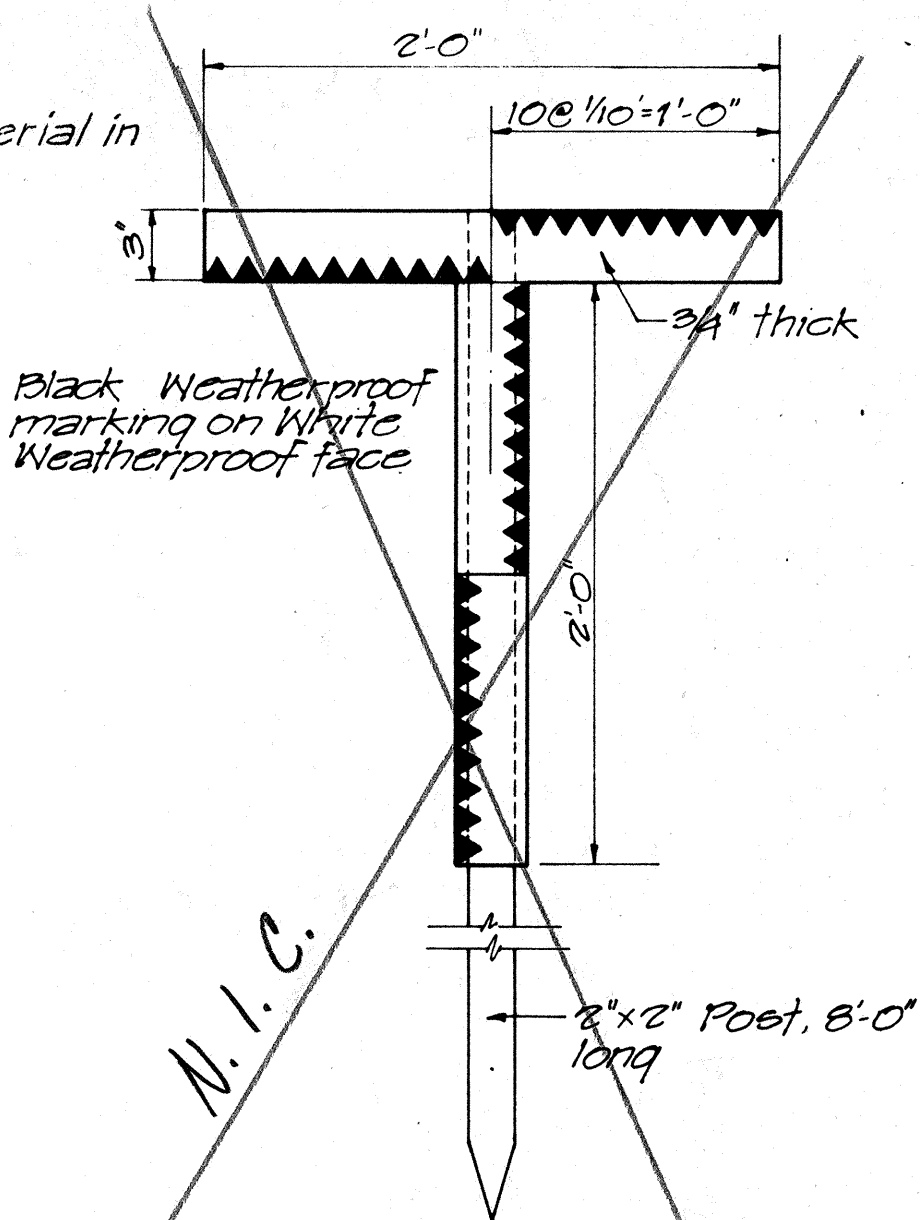


TRANSVERSE WINDROW

DRAINAGE WINDROW DETAIL

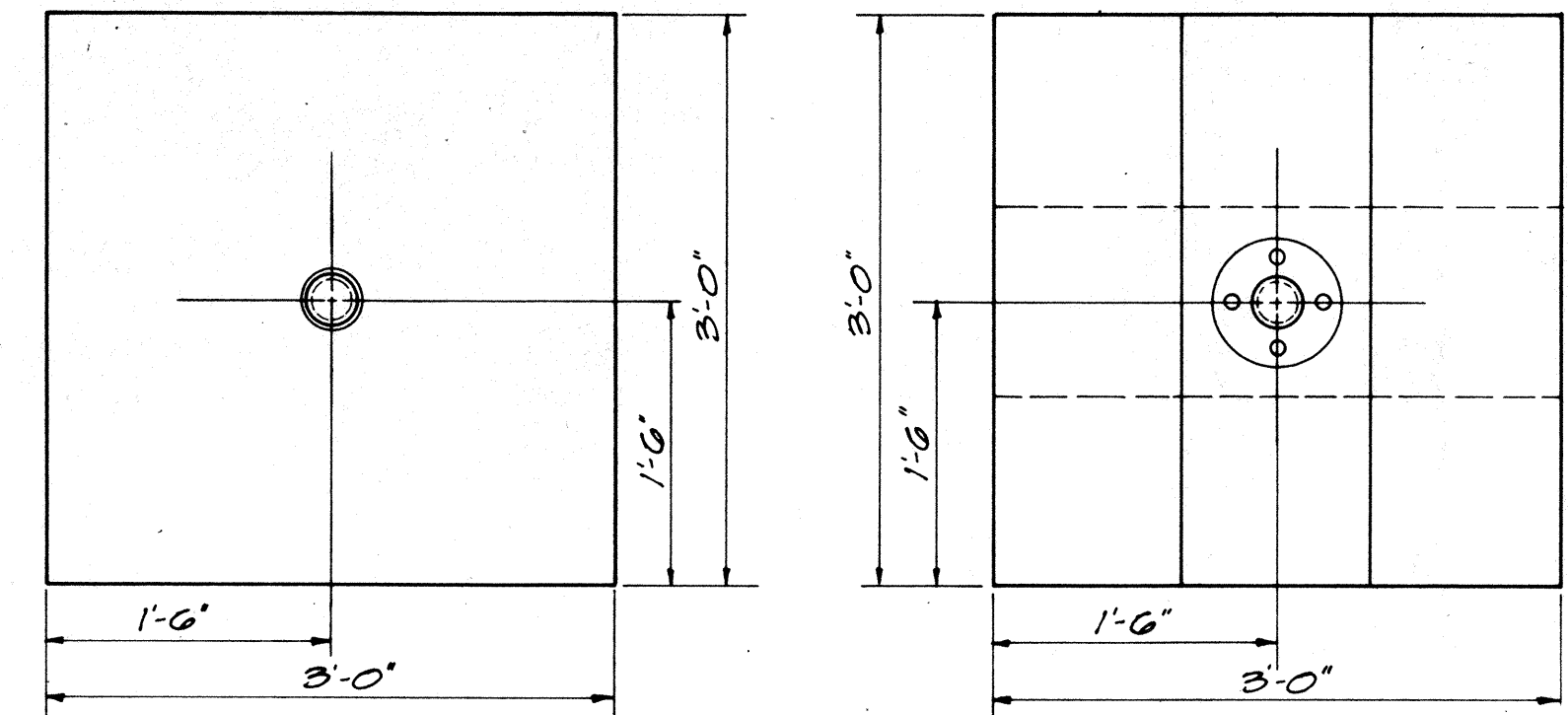
Scale 1"=2'-0"

* Payment for Non-Select Permeable Material in Windrows to be included in cost of "Roadway Excavation" See Special Provisions

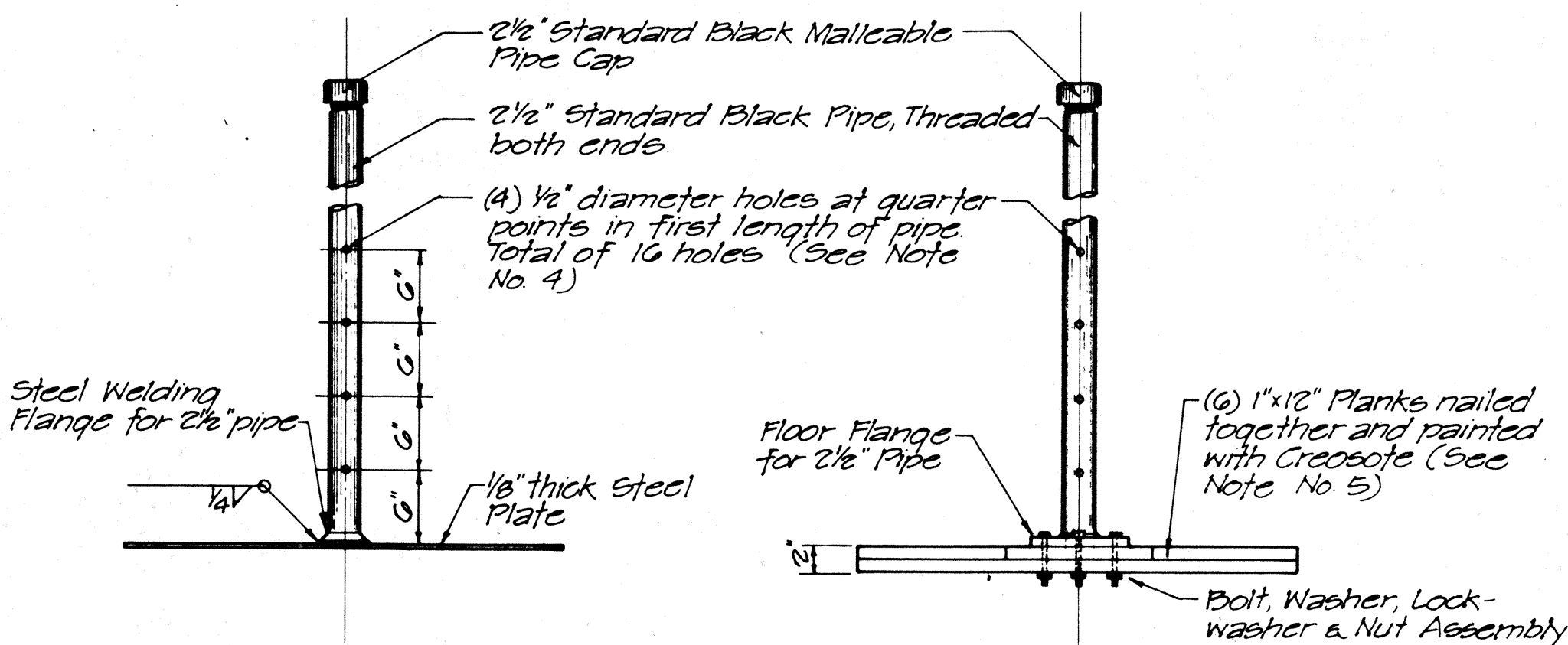


CONTROL STAKE DETAIL

Not to Scale



PLAN



ELEVATION STEEL BASE PLATFORM

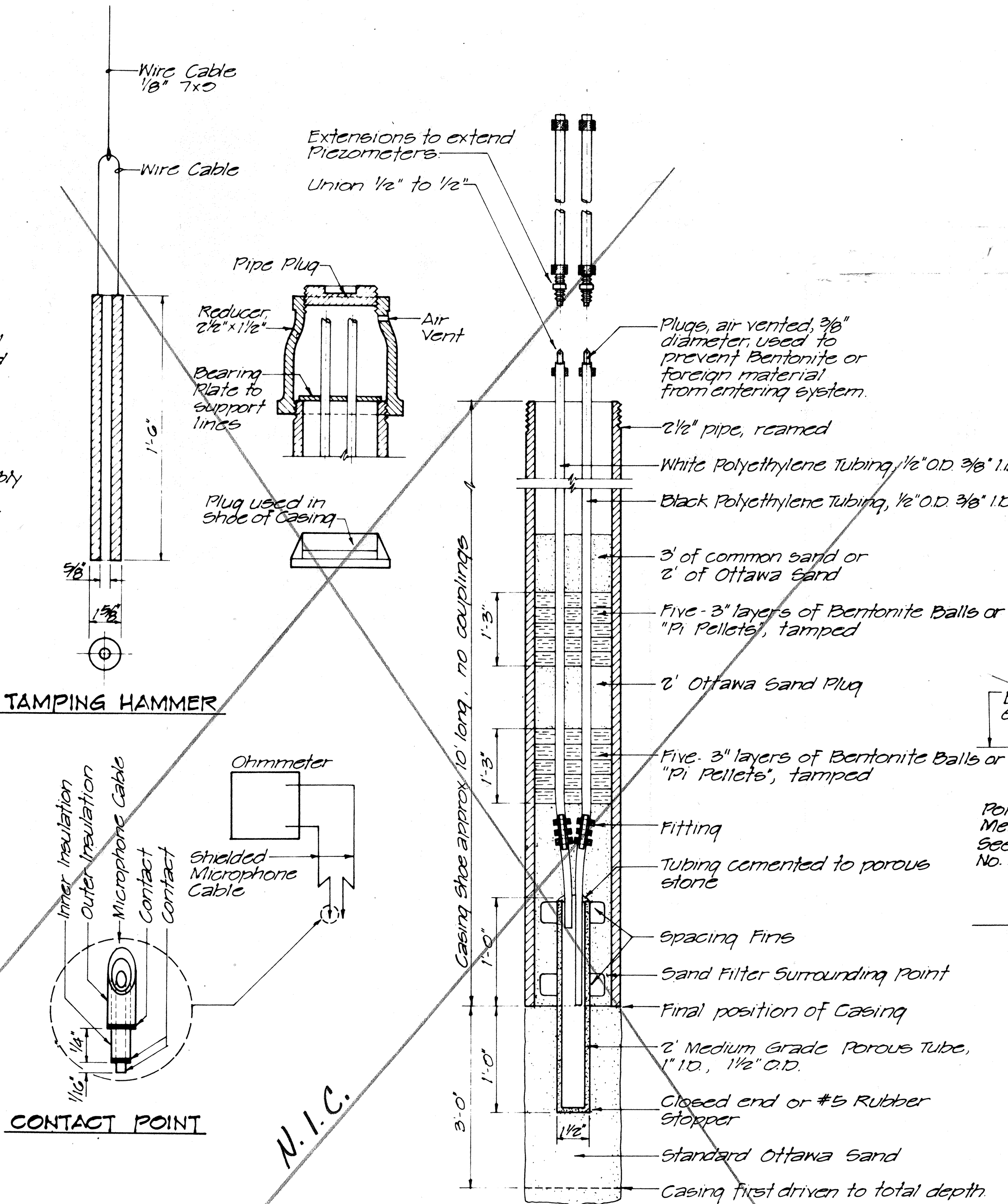
ELEVATION WOOD BASE PLATFORM

SETTLEMENT PLATFORM DETAIL

Scale: 1"=1'-0"

SETTLEMENT PLATFORM NOTES:

1. The use of either the Steel or Wood Base Settlement Platforms shall be the Contractor's option.
2. Contractor to furnish material and labor to extend pipe up through fill.
3. All vertical pipes of Settlement Platforms shall be accurately and consecutively numbered in one foot intervals measured from the bottom of the Settlement Platform base. The numbering and graduations shall be marked on the vertical pipe in durable yellow paint by the Contractor immediately after each section of pipe is added.
4. Holes to be drilled in first length of pipe, if specified.
5. Sound lumber must be used for the Wood Base Platform.

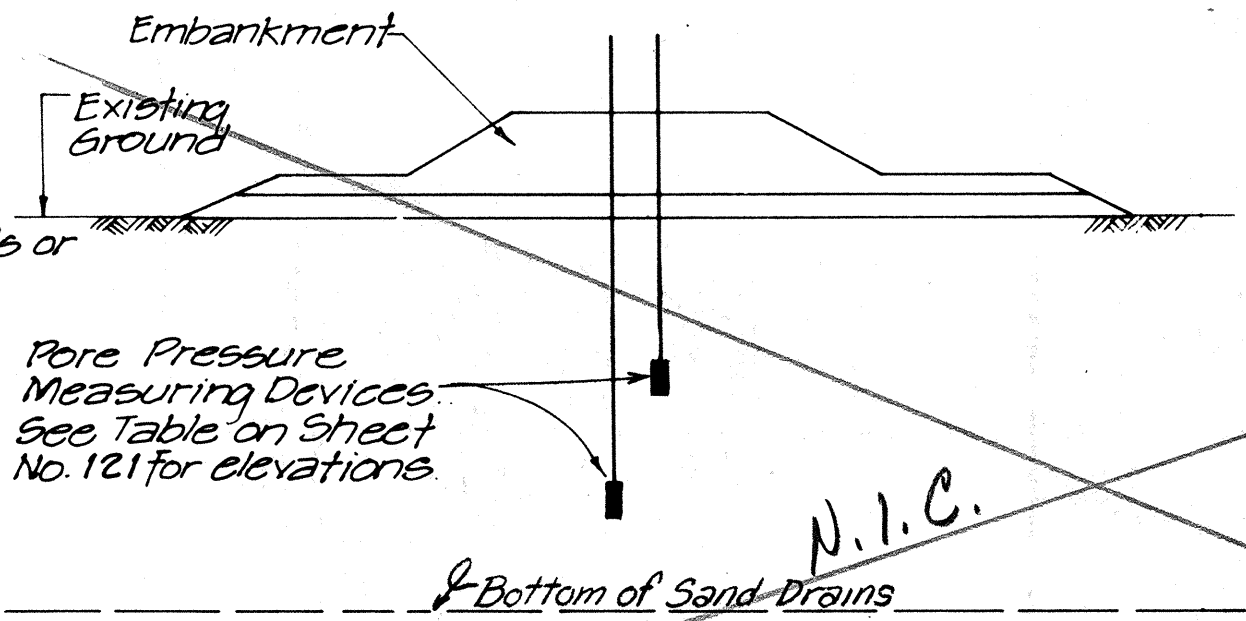


TAMPING HAMMER

CONTACT POINT

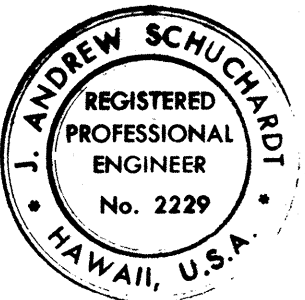
PORE PRESSURE MEASURING DEVICE DETAIL

Not to Scale



TYPICAL PORE PRESSURE MEASURING DEVICE INSTALLATION

Not to Scale



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HIGHWAYS DIVISION

SOIL STABILIZATION DETAILS

INTERSTATE ROUTE H-1
PROJECT NO. I-H-1(90):13

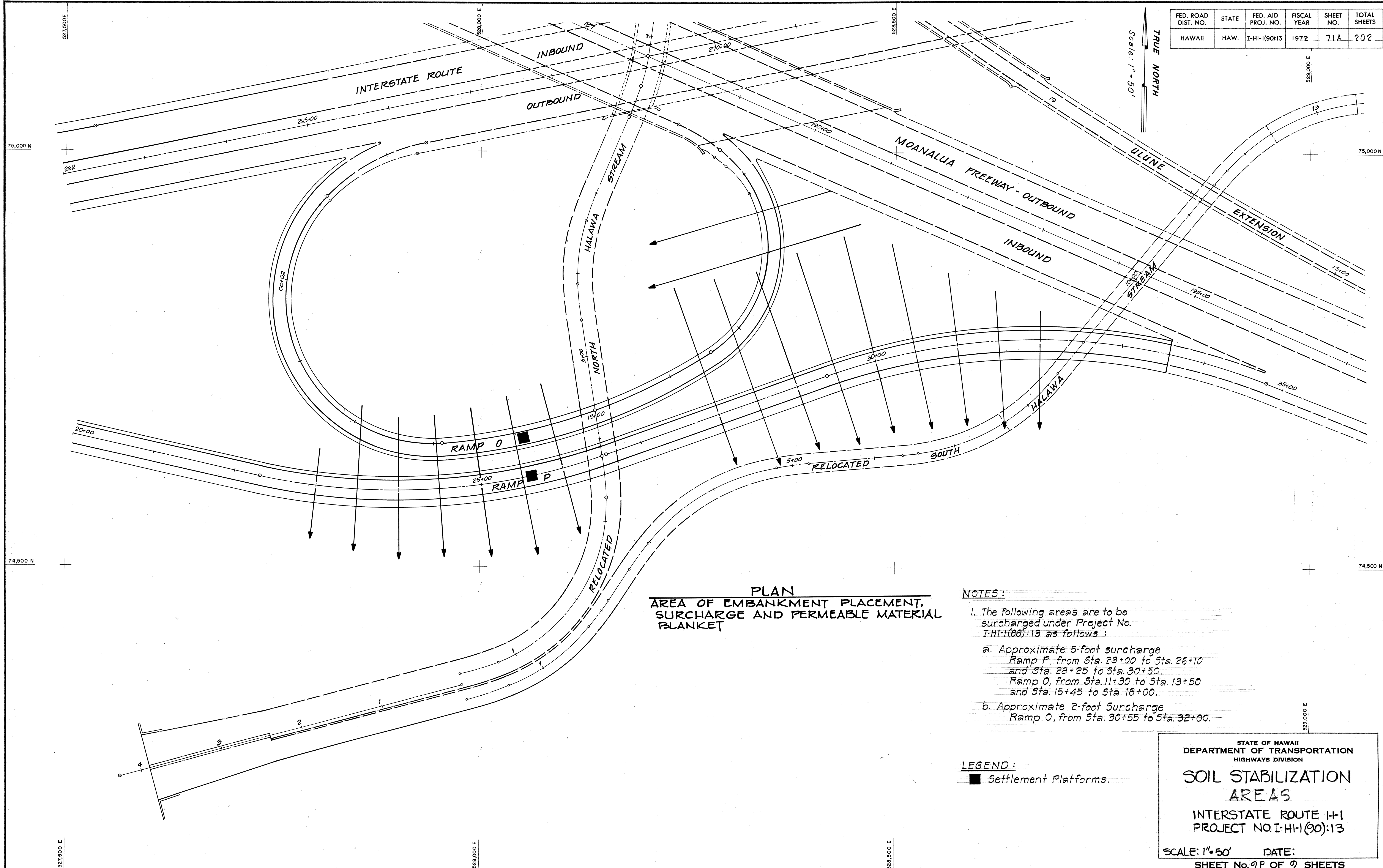
SCALE: AS SHOWN

DATE: 7-17-70

SHEET No. 8P OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(90)13	1972	71A	202

TRUE NORTH
Scale: 1" = 50'



PLAN
**AREA OF EMBANKMENT PLACEMENT,
SURCHARGE AND PERMEABLE MATERIAL
BLANKET**

NOTES:

- The following areas are to be surcharged under Project No. I-HI-1(88)13 as follows:
 - Approximate 5-foot surcharge
Ramp P, from Sta. 23+00 to Sta. 26+10
and Sta. 28+25 to Sta. 30+50.
Ramp O, from Sta. 11+30 to Sta. 13+50
and Sta. 15+45 to Sta. 18+00.
 - Approximate 2-foot Surcharge
Ramp O, from Sta. 30+55 to Sta. 32+00.

LEGEND:

■ Settlement Platforms.

STATE OF HAWAII
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HIGHWAYS DIVISION

**SOIL STABILIZATION
AREAS**

INTERSTATE ROUTE I-HI
PROJECT NO. I-HI-1(90)13

SCALE: 1" = 50' DATE:
SHEET No. 71 OF 7 SHEETS

71A

ORIGINAL	DATE
PLAN	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	