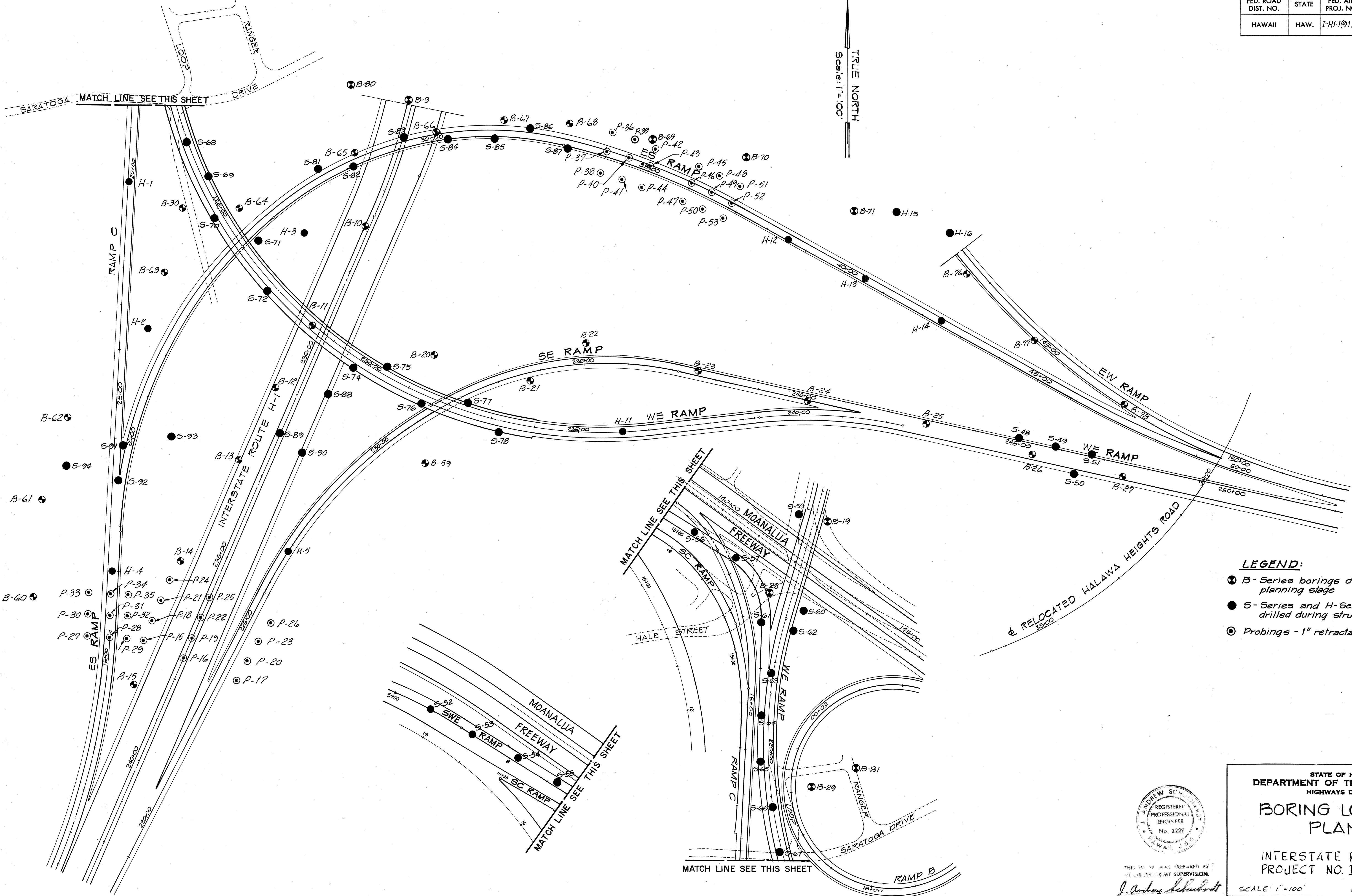


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(91):13	1972	63	228

TRUE NORTH
Scale: 1"=100'



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

SURVEY PLOTTED BY	DATE
DRAWN BY	
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NOTE BOOK	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOCATION
PLAN

INTERSTATE ROUTE H-1
PROJECT NO. I-H-1(91):13
SCALE: 1"=100' DATE: APR. 15, 1971
SHEET No. 1 P. OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(91):13	1972	64	228

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. WHERE NEITHER "SP" NOR "SH" IS LISTED, THEN USE OF SPLIT SPOON SAMPLER IS UNDERSTOOD.
- 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
WR	WEIGHT OF RODS

LEGEND

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

- * 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.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(91):13

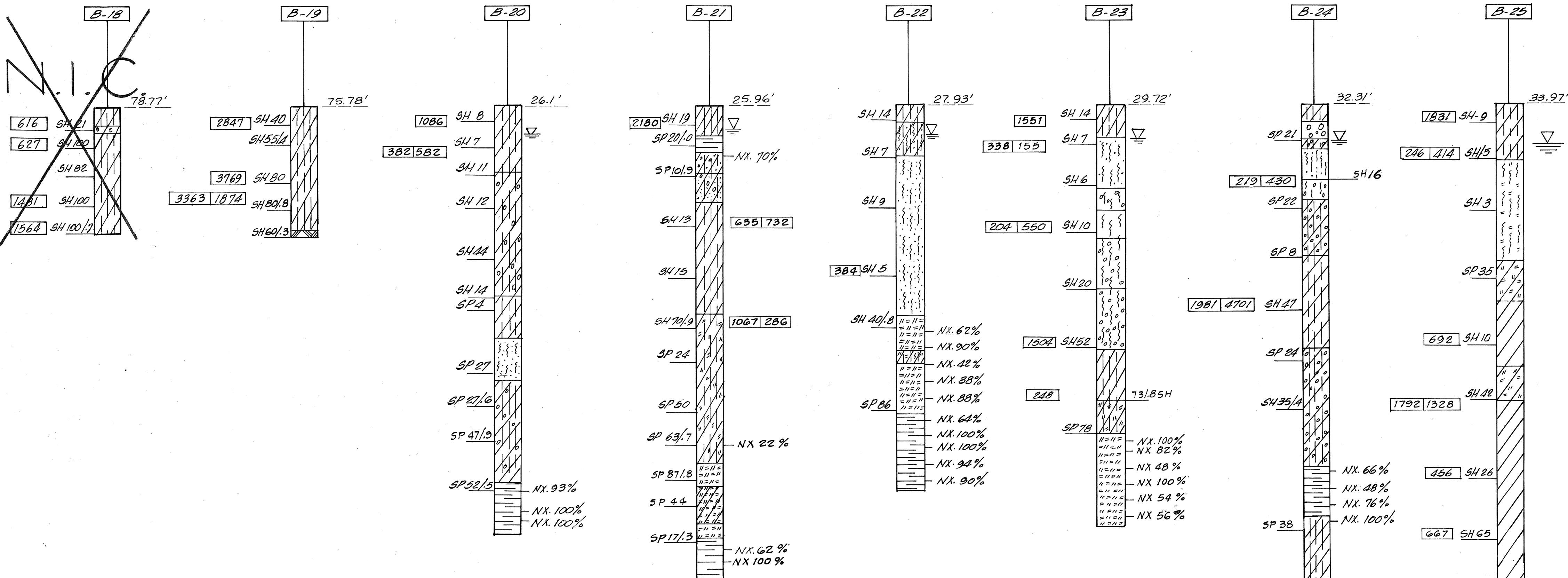
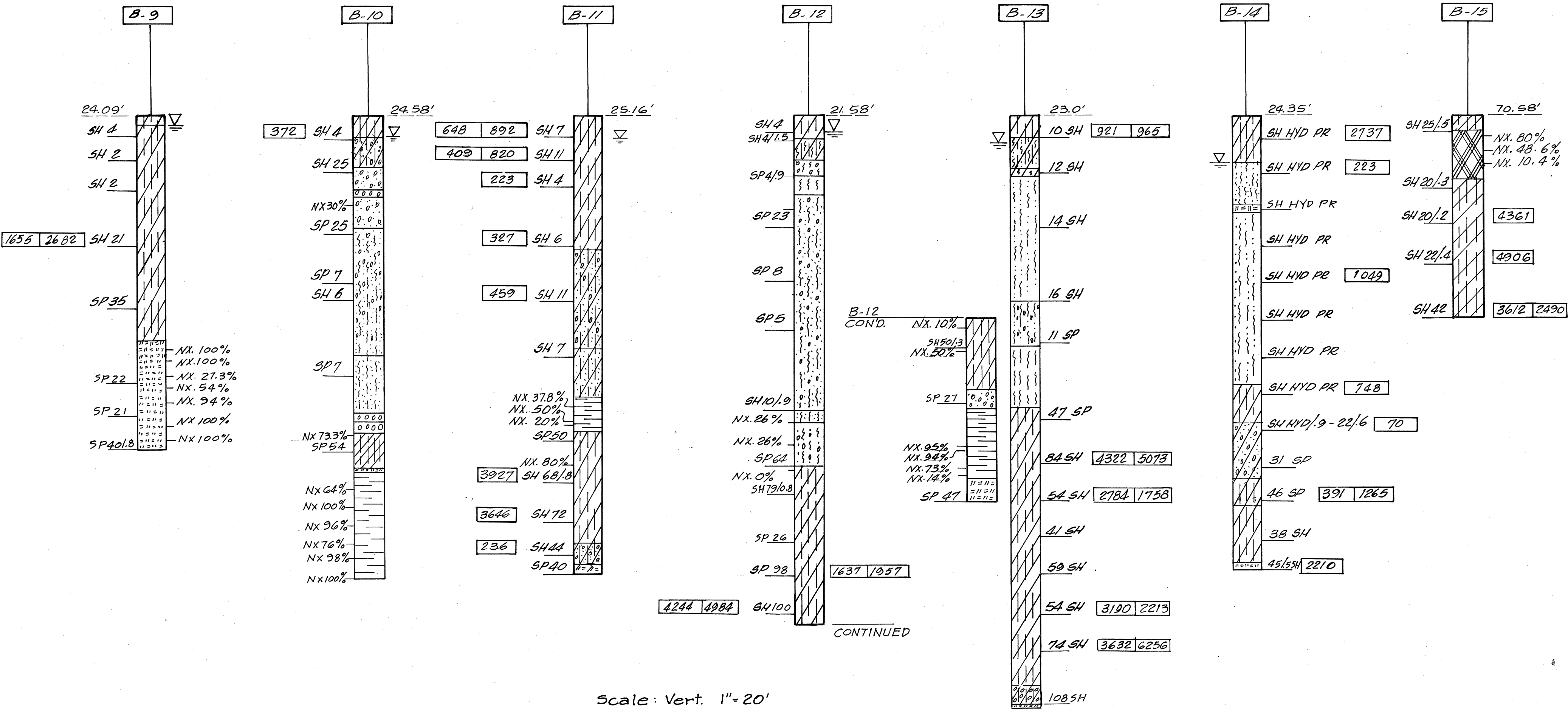
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SHEET No. 2P OF 7 SHEETS



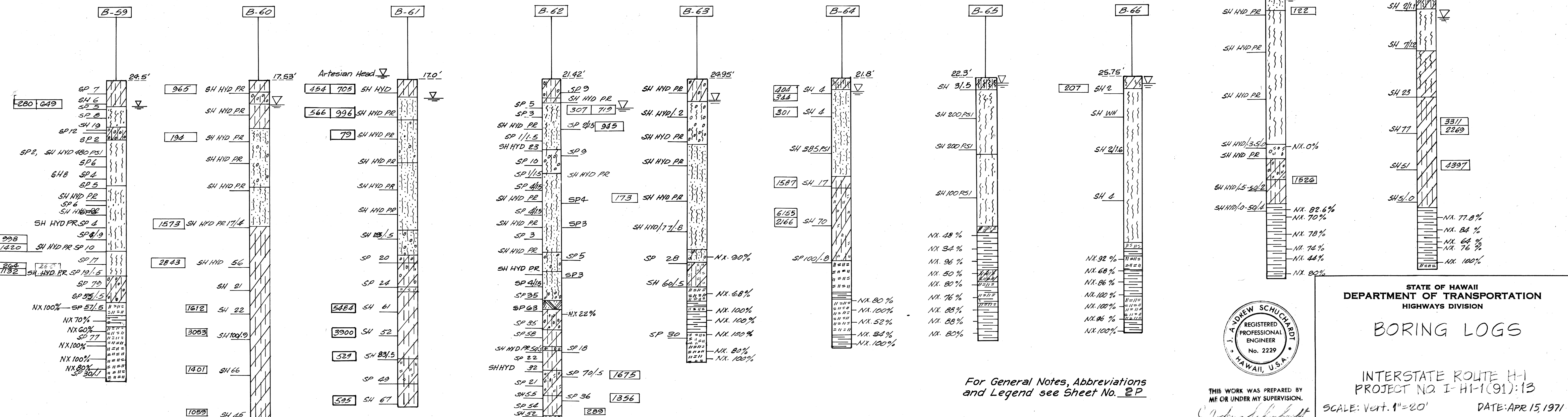
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NOTE BOOK	DESIGNED BY
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(91)-13	1972	65	228



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

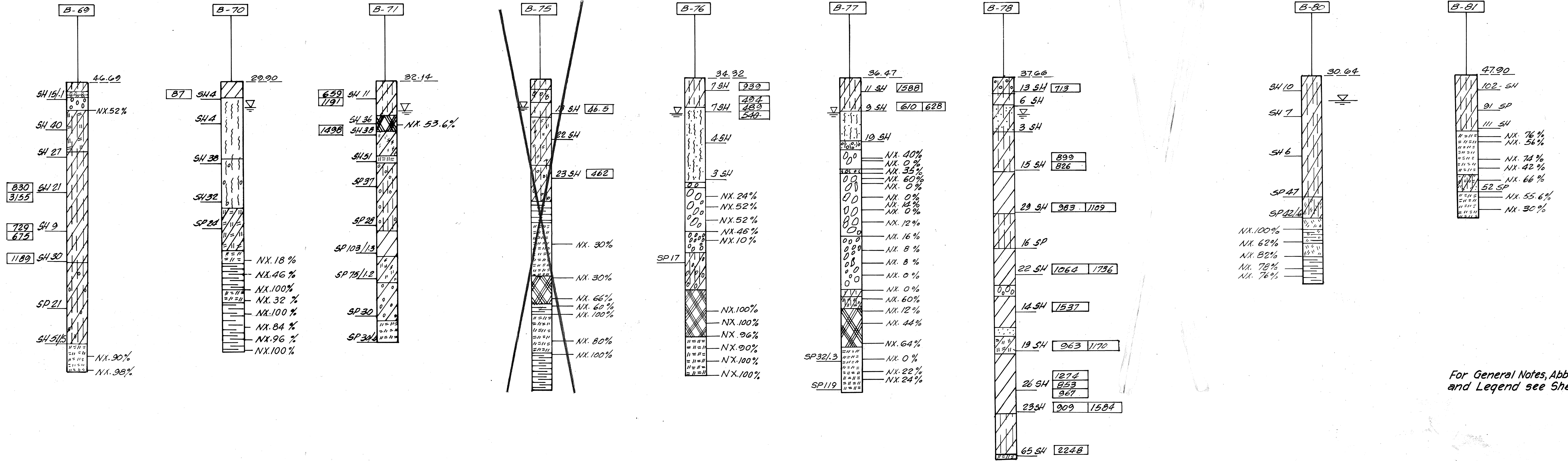
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PROJECT NO. I-H-1(91):13

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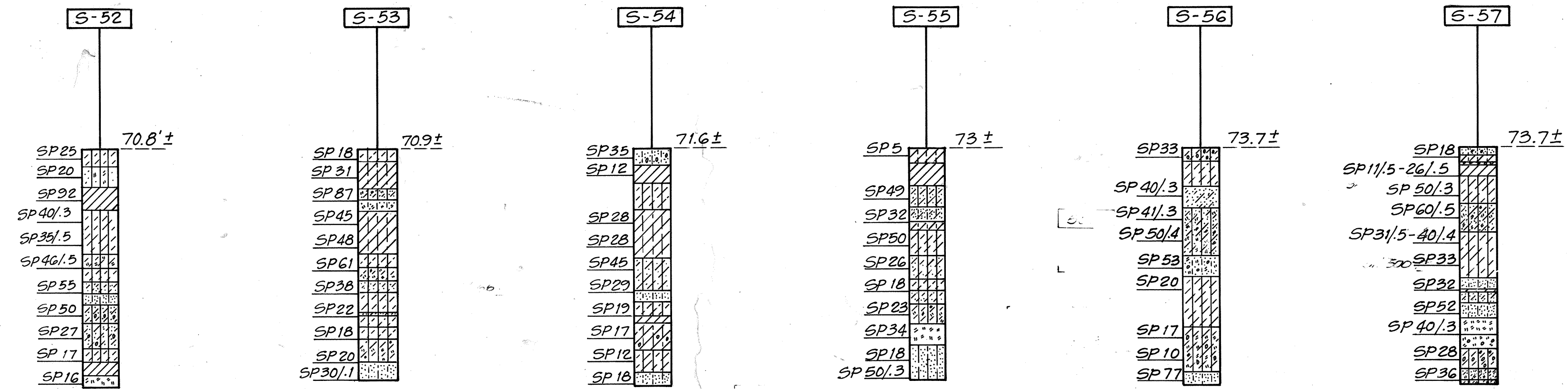
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(91)-13	1972	66	228

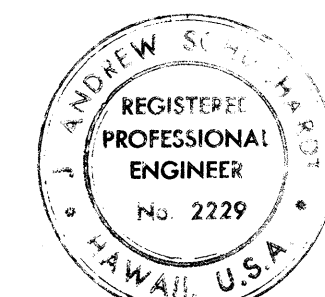
N.I.C.



For General Notes, Abbreviations and Legend see Sheet No. 2P



DATE	_____
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NOTED BY	_____
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NOTE BOOK	_____
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(91)-13
SCALE: Vert. 1"=20' DATE: APR. 15, 1971

SHEET No. 4POF 7 SHEETS

66

Figure 1 displays vertical section drawings of eight test pits, labeled H-1 through H-8. Each drawing shows the soil profile, depth measurements, and groundwater levels. The pits are arranged in two rows of four. The top row (H-1 to H-5) shows pits with varying soil profiles and depths. The bottom row (H-6 to H-8) shows pits that are crossed out with a large 'X', indicating they are not in use. A large 'N.I.C.' is written across the bottom right of the figure.

Pit	Soil Profile (from top to bottom)	Depth (ft)	Groundwater Level (ft)
H-1	7, 3, 0, 1, WH, 0, WH, WH, 0, 9, 23, 14, 17	20.0	
H-2	17, 13, 10, 4, 5, 6, 4, 6, 8, 6, 7, 10, 7, 12, 13	24.2	
H-3	16, 13, 4, 2, 4, 4, 1, 4, 4, 4, 12, 10, 13, 17, 7, 8, 50, 47	24.1	
H-4	24, 9, 6, 7, 6, 4, 1, 27, 19, 29, 76, 307.3	20.2	
H-5	18, 26, 4, 7, 2, 2, 5, 4, 3, 5, 6, 3, 12, 13, 911.8	23.1	
H-6	16, 5, 6, 10, 5, 7, 9, 8, 5, 9, 10, 9, 10, 8, 8, 7	13.3	
H-7	15, 5, 10, 7, 6, 4, 4, 4, 4, 7, 6, 7, 8	12.0	
H-8	7, 3, 4, 8, 5, 5, 3, 4, 4, 4, 7, 6, 4, 6, 6, 73	12.1	

N.I.C.

The diagrams show 17 vertical piles, labeled H-9 through H-17. Each pile has a cross-section and various dimensions and labels. Piles H-9, H-10, and H-17 are crossed out with large X's.

- H-9:** Crossed out. Dimensions: 12, 2, 2, 4, 1, WT. ROD, 0, WH., WT. ROD, 3, 4, 2, 3, 3, 7. Total length: 3.0.
- H-10:** Crossed out. Dimensions: 12, 6, 4, 4, 3, 4, 3, 7, 5, 5, 6, 4, 4, 4, 6, 7, 15, 15, 16, 15. Total length: 11.6.
- H-11:** Dimensions: 13, 9, 5, 8, 18, 3, 3, 4, 4, 6, 31, 101, 14. Total length: 28.0.
- H-12:** Dimensions: 5, 6, 7, 2, 8, 3, 5, 2, 8, 10, 11. Total length: 31.3.
- H-13:** Dimensions: 10, 10, 7, 4, 26, 12. Total length: 33.1.
- H-14:** Dimensions: 15, 10, 11, 10, 32, 42, 5, 2, 4, 125. Total length: 33.7.
- H-15:** Dimensions: 14, 9, 5, 4, 5, 9, 5, 6, 27, 26, 36. Total length: 33.4.
- H-16:** Dimensions: 7, 12, 6, 4, 2, 4, 2, 1, 2, 41, 93. Total length: 34.2.
- H-17:** Crossed out. Dimensions: 3, 2, 4, 7, 2, 2, 4, 50, 24, 20, 3. Total length: 36.4.

WT. ROD and WH. are labels for specific sections of the piles. The total length for each pile is indicated at the top right of the diagram.



BORING LOGS

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(91):13

SCALE: Vert. 1"=20' DATE: APR 15, 1971

SHEET No. 5P OF 7 SHEETS

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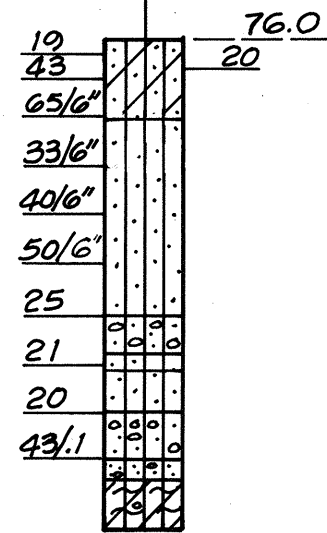
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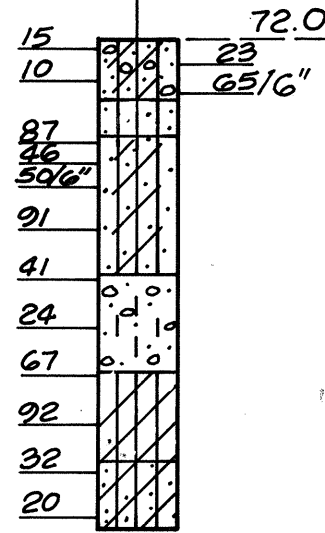
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(9)-13	1972	68	228

Structure No. 3 Borings

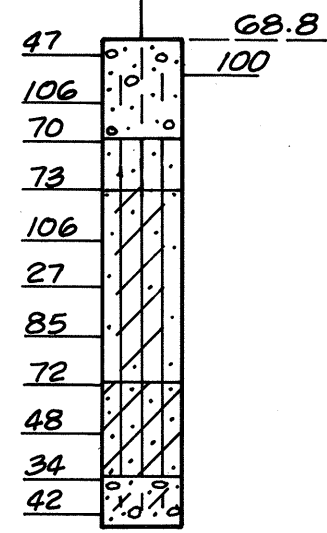
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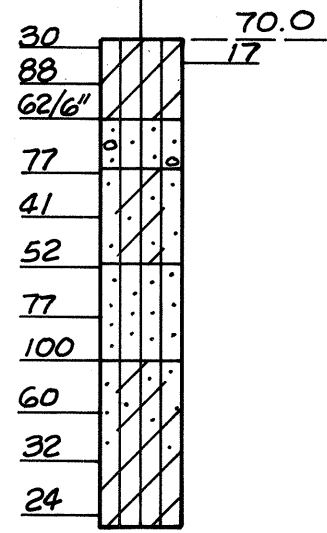
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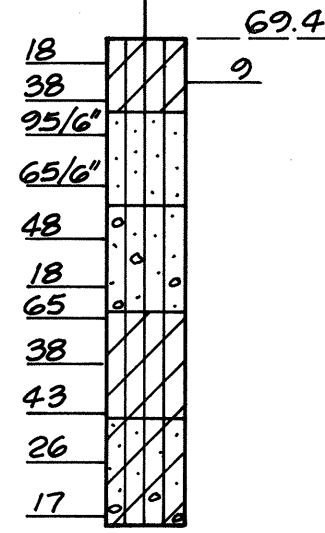
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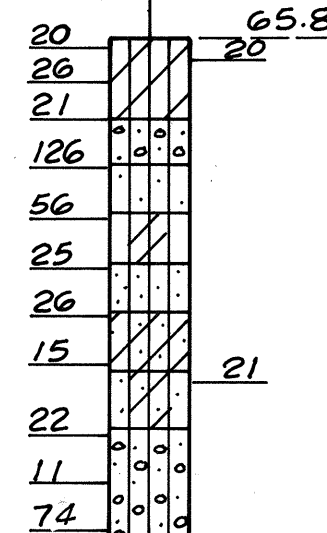
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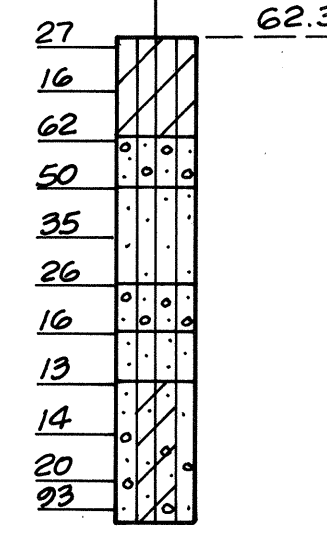
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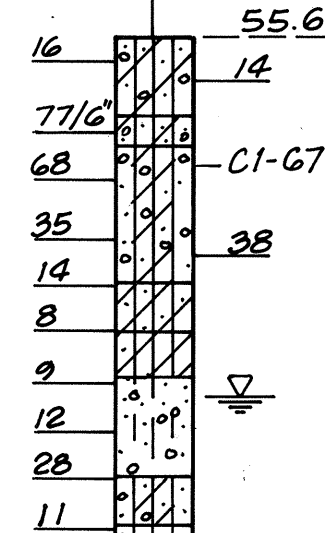
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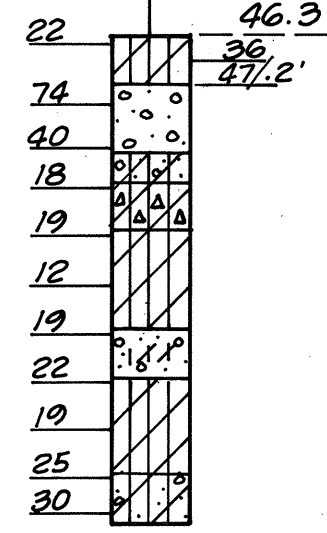
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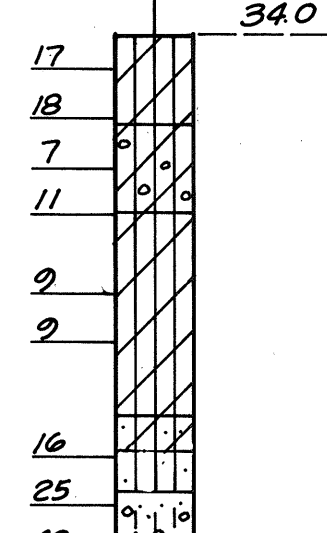
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S-67



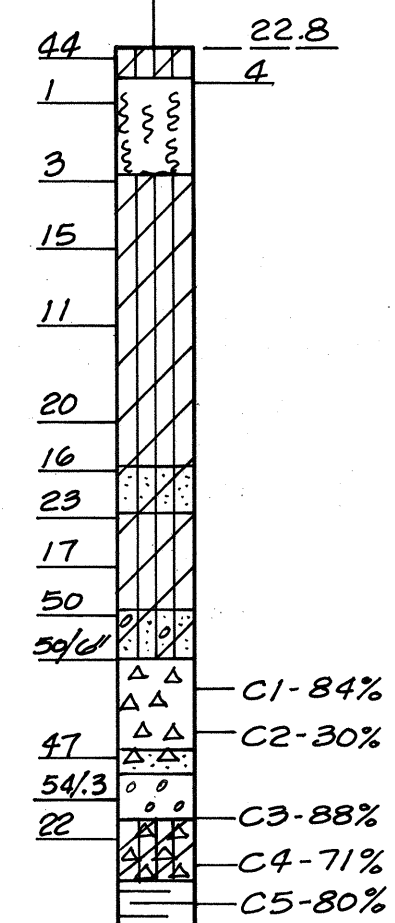
S-68



△ △ C1-50%
△ △ C2-55%
△ △ C3-31%
△ △ C4-28%
△ △ C5-58%
△ △ C6-75%
△ △ C7-70%

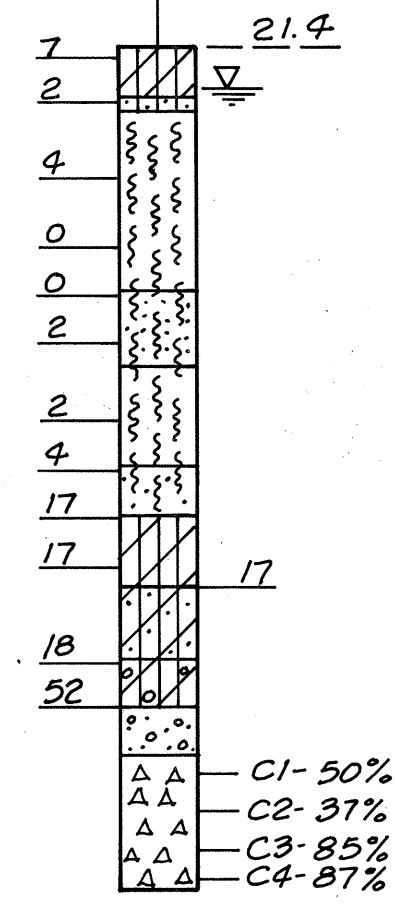
Structure No. 3 Borings

S-69



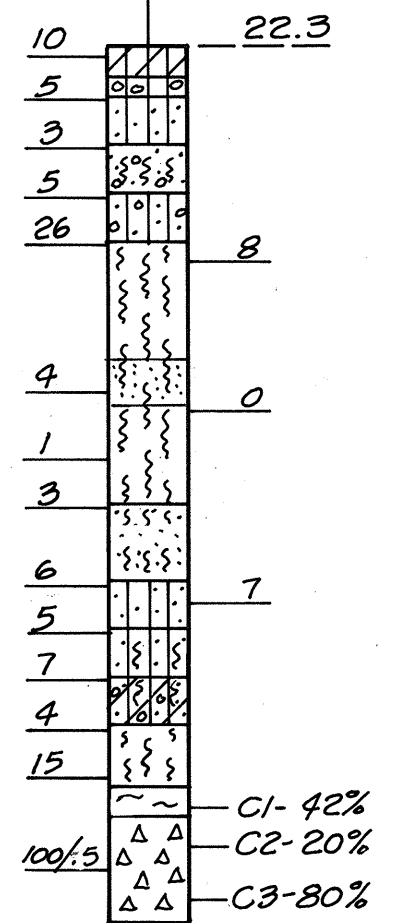
△ △ C1-84%
△ △ C2-30%
△ △ C3-88%
△ △ C4-71%
△ △ C5-80%

S-70



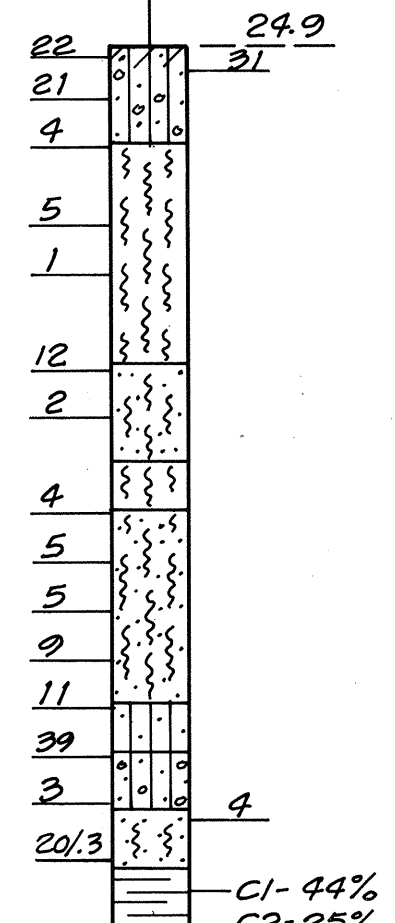
△ △ C1-50%
△ △ C2-37%
△ △ C3-85%
△ △ C4-87%

S-71



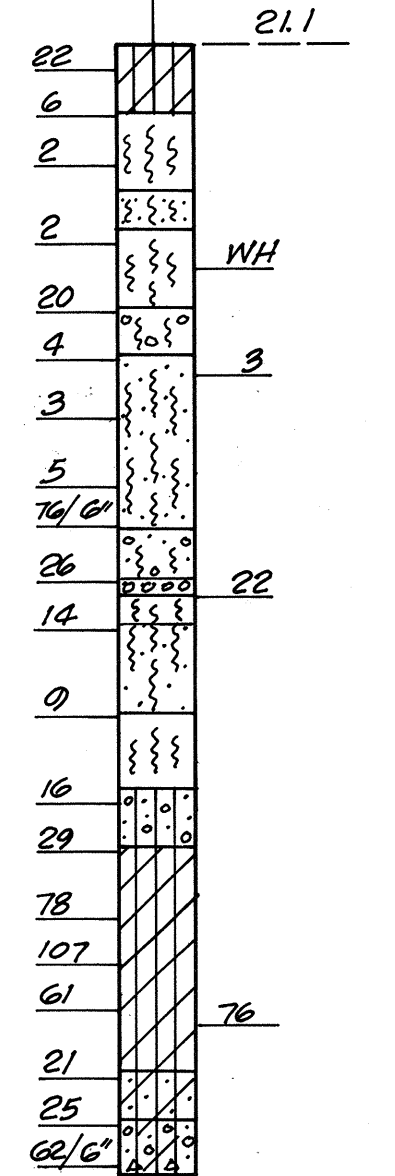
△ △ C1-42%
△ △ C2-20%
△ △ C3-80%

S-72

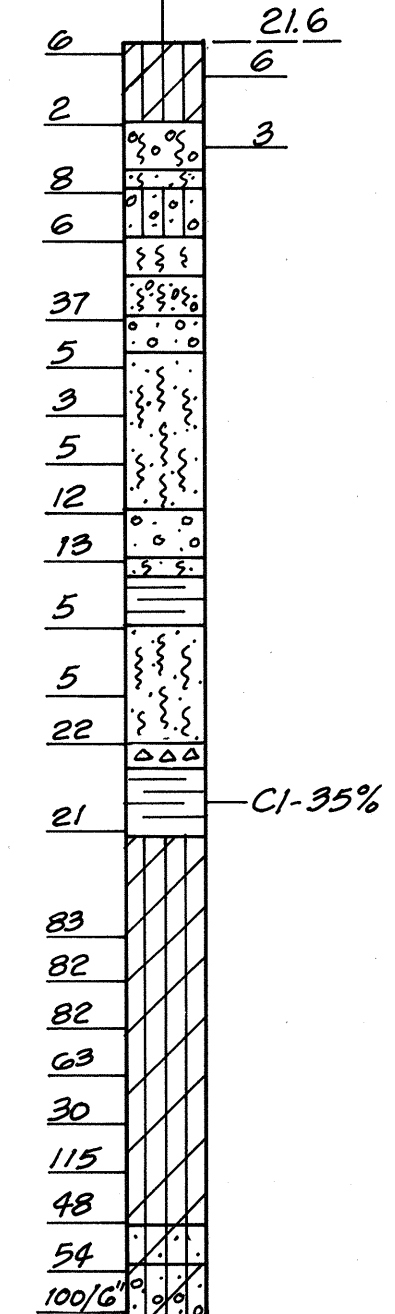


△ △ C1-44%
△ △ C2-25%
△ △ C3-33%
△ △ C4-73%

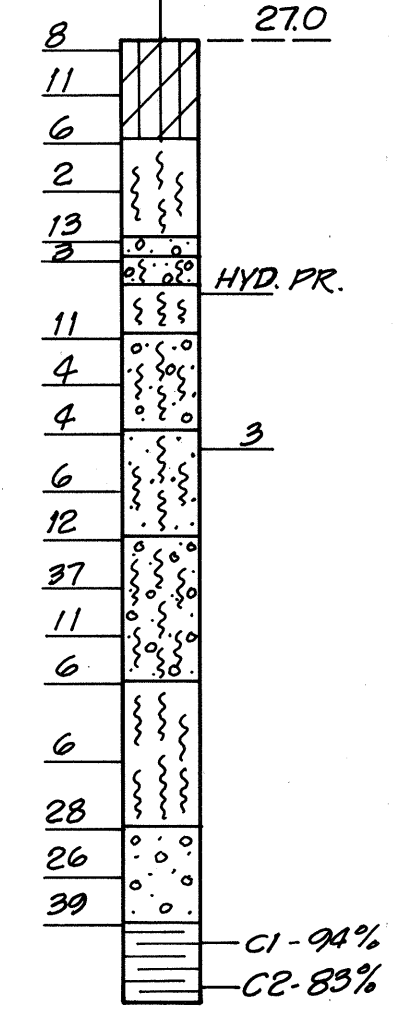
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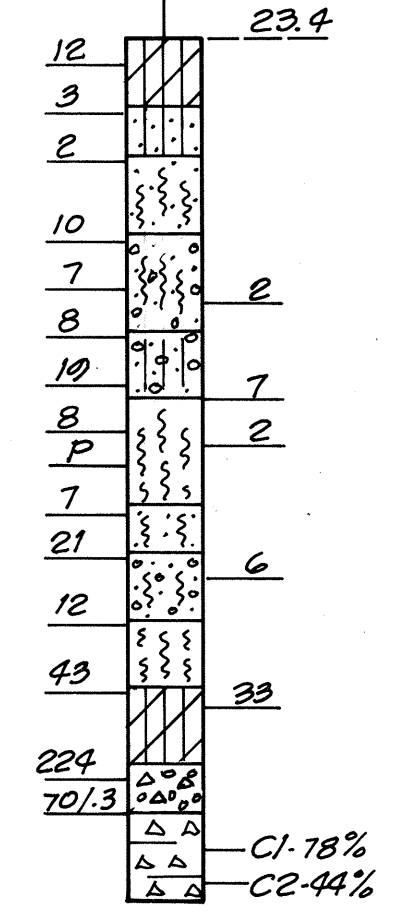
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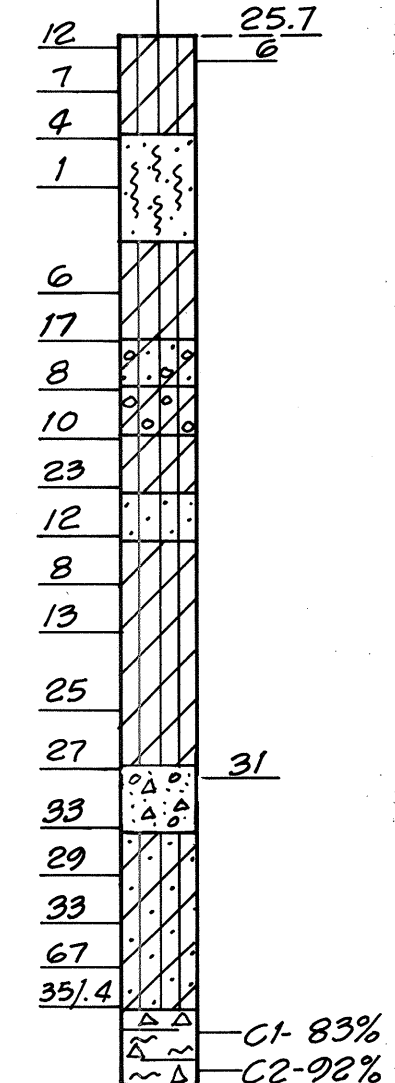
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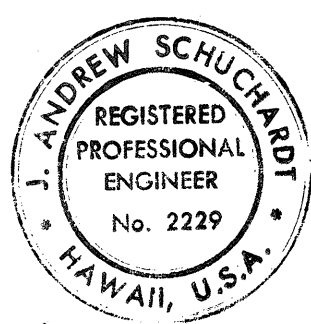
S-77



S-78



For General Notes, Abbreviations and Legend see Sheet No. 2P
Notes for S-Series Borings:
1. C-1, C-2, etc. is Core Run No.
% is Core Recovery



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BORING LOGS

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(9)-13

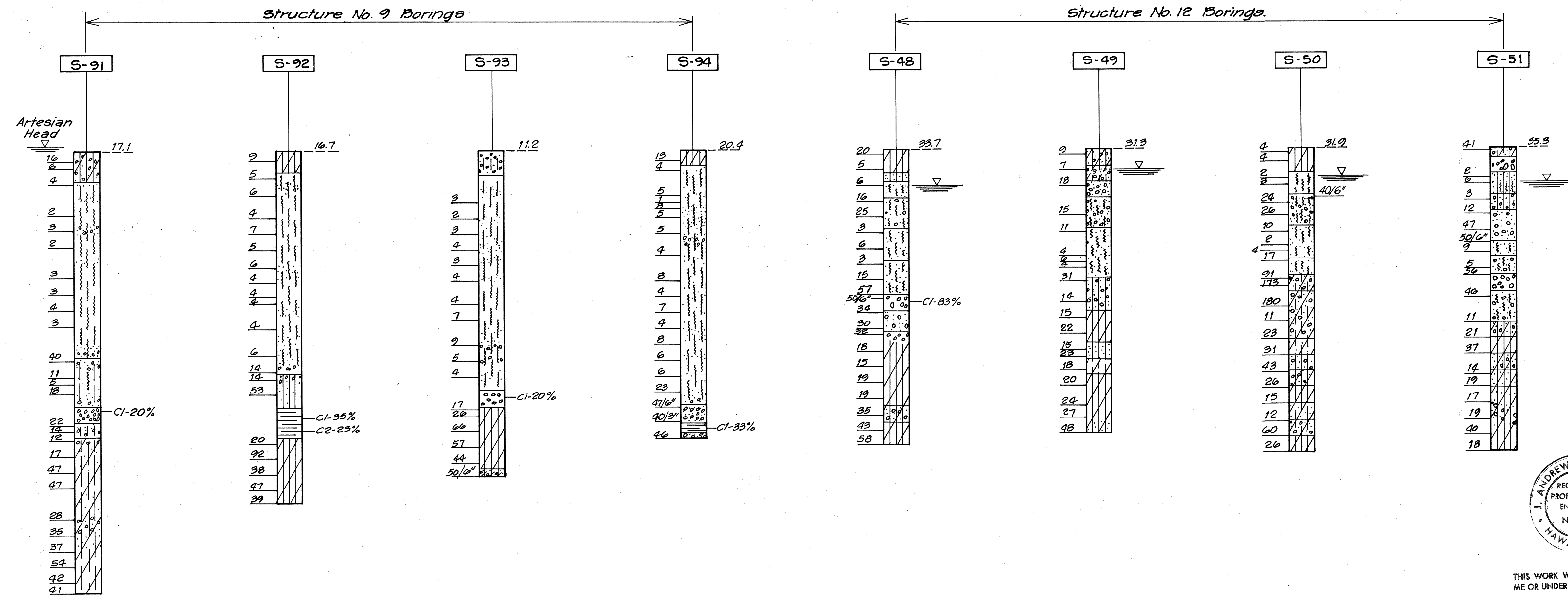
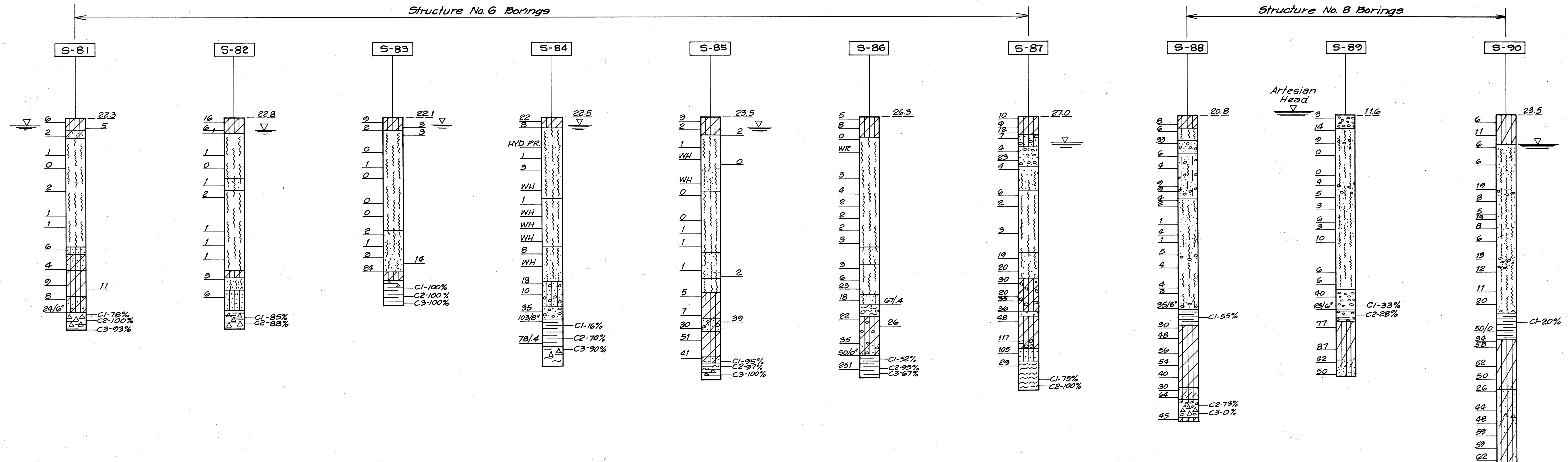
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SHEET No. 6 OF 7 SHEETS

68

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NOTE BOOK: *****
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(91):13	1972	69	228



For General Notes, Abbreviations and Legend see Sheet No. 2P

Note for S-Series Borings:

1. C1, C2, etc. is Core Run No.

% is Core Recovery

DATE

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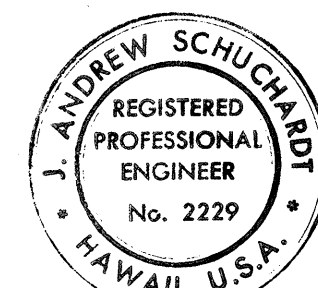
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INTERSTATE ROUTE H-1
PROJECT NO I-HI-1(91):13

SCALE: VERT. 1"=20' DATE: APR. 15, 1971
SHEET No. 7P OF 7 SHEETS

(59)