FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(09):15	1977	20	350

DESCRIPTION OF WORK	WORKING DAYS 50 100 150 200 250 300 350 400 450 500 550
CONSTRUCTION PHASES	PHASE I; PHASE II; PHASE III; PHASE IV
MOBILIZATION	
CLEARING AND GRUBBING	
UTILITIES (SEWER, WATER, GAS, ELEC. & TEL., ST., LTG., IRR. AND OTHERS)	
A. PORTION N-IP, PORTION R-IH, 19TH WAY EXTENSION, VISITOR PARKING	
B. PORTION R-IH	
C. PORTION R-IH, R-HI, PORTION RAMP R-PW, PORTION RAMP N-PI	
DRAINAGE	
A. PORTION N-IP, PORTION R-IH, 19TH WAY EXTEN., VISITOR PARKING, MOKULELE SCH.	
B. PORTION R-IH. VANDENBERG BLVD.	
C. PORTION R-IH, R-HI, PORTION RAMP R-PW, PORTION RAMP N-PI	
ROADWAY	
A. N-IP, PORTION R-IH, 19TH WAY EXTEN., VISITOR PARKING, MOKULELE SCH.	
B. PORTION R-IH, R-HI, N-IP, R-PW	DETOUR TO N-IP AND R-IH
C. PORTION R-IH, PROTION RAMPS R-PW AND N-PI, PORTION N-IP	
D. PORTION N-IP AND N-PI, PORTION OF R-IH AND R-HI	
E. STRUCTURE RAMP N-PI	
F. STRUCTURE RAMP R-PW	
MISCELLANEOUS	
A. BIKEWAY AND FENCE	
B. EROSION CONTROL AND LANDSCAPING	
C. PEDESTRIAN OVERPASS	

ORIGINAL / FILMAR
NOTE BOOK
No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR

CONSTRUCTION PHASING

INTERSTATE ROUTE H-1
PROJ. NO. I-H1-1(09):15

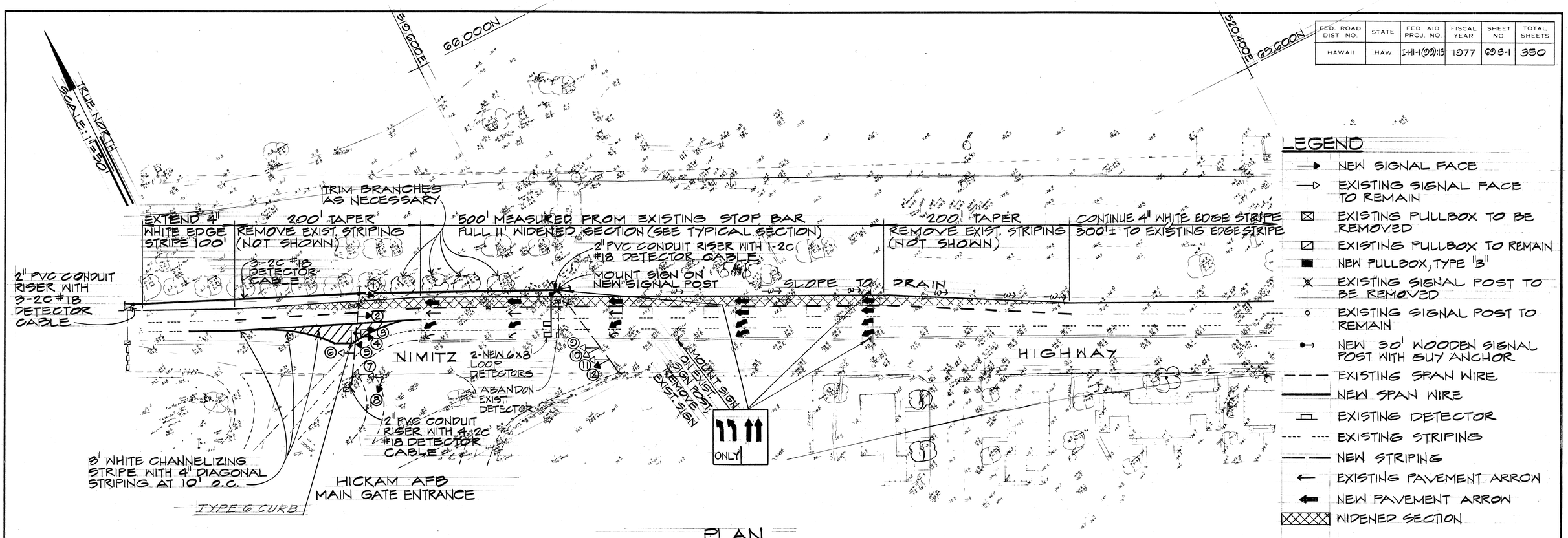
SCALE: NONE DATE AUG 1 1976

SHEET NO. 1 OF 25 SHEETS

PRINTED ON NO. 1000H CLEARPRINT

20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99):15	1977	69S-1	350



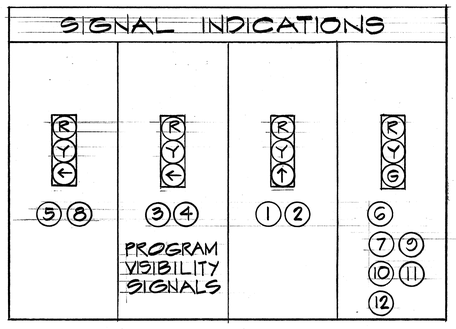
PLAN
SCALE: 1"=50'

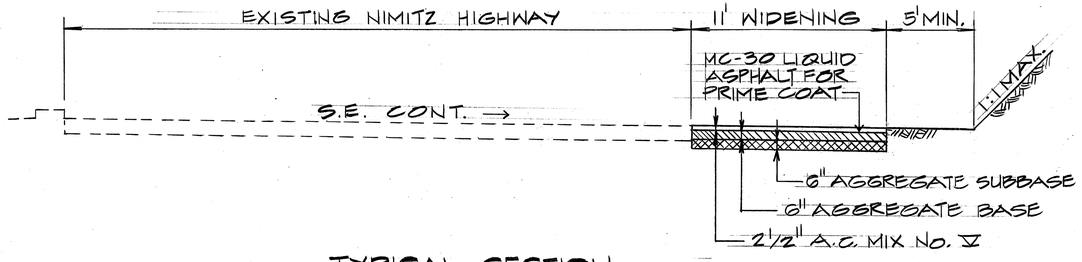
LEGEND

- NEW SIGNAL FACE
- EXISTING SIGNAL FACE TO REMAIN
- EXISTING PULLBOX TO BE REMOVED
- EXISTING PULLBOX TO REMAIN
- NEW PULLBOX, TYPE "B"
- EXISTING SIGNAL POST TO BE REMOVED
- EXISTING SIGNAL POST TO REMAIN
- NEW 30' WOODEN SIGNAL POST WITH GUY ANCHOR
- EXISTING SPAN WIRE
- NEW SPAN WIRE
- EXISTING DETECTOR
- EXISTING STRIPING
- NEW STRIPING
- EXISTING PAVEMENT ARROW
- NEW PAVEMENT ARROW
- WIDENED SECTION

GENERAL NOTES

1. ALL SIGNAL POSTS AND POLES, SIGNAL HEADS AND SIGNAL HARDWARE SHALL BECOME THE PROPERTY OF THE STATE OF HAWAII.
2. ALL NEW SIGNAL HEADS AND NEW 30' WOODEN POLES SHALL BE STATE-FURNISHED.
3. SIGNAL PHASING SHALL BE THE SAME AS EXISTING.
4. OVERHEAD TRAFFIC SIGNAL MESSENGER CABLES SHALL BE EXTENDED AS SHOWN. NEW 30' WOODEN SIGNAL POSTS SHALL BE INSTALLED 6' MINIMUM FROM THE NEW EDGE OF PAVEMENT.
5. ALL SIGNAL WIRING CABLES SHALL BE A MINIMUM OF 11/C #12 WIRES WITH #8 BARE WIRE UNLESS OTHERWISE NOTED.
6. FINAL HOOKUP AND TIMING OF SIGNAL SYSTEMS SHALL BE BY THE DEPARTMENT OF TRANSPORTATION SERVICES, CITY AND COUNTY OF HONOLULU.





TYPICAL SECTION
SCALE: ¼"=1'-0"

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TEMPORARY WIDENING, STRIPING AND SIGNALIZATION

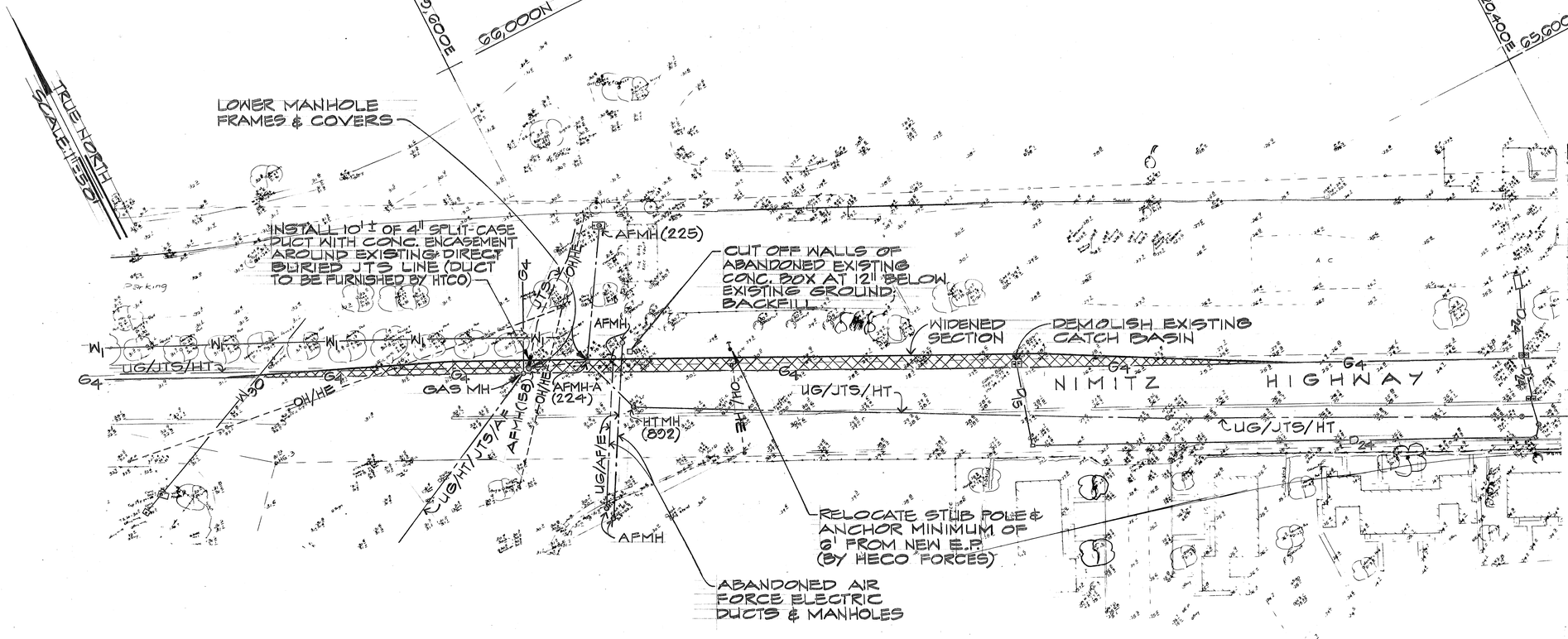
NIMITZ HWY. AT HICKAM AFB MAIN GATE

NIMITZ SPUR
F.A.I. Proj. No. I-HI-1(99):15
SCALE: AS SHOWN DATE: MARCH 23, 1977

SHEET No. 1 OF 2 SHEETS

C.O. 69 S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99):15	1977	695-2	350



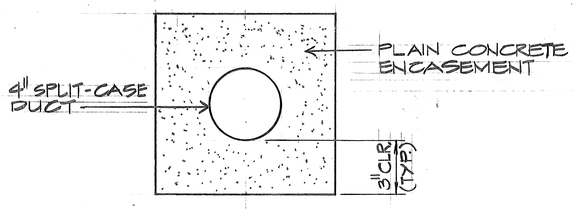
PLAN
SCALE: 1"=50'

LEGEND

- OH/HE — EXISTING HECO OVERHEAD LINE
- UG/AF/E — EXISTING UNDERGROUND AIR FORCE ELECTRIC DUCTS
- JTS — EXISTING JOINT TRUNKING SYSTEM DIRECT BURIED CABLE
- UG/HT/JTS/AF — EXISTING COMBINED UNDERGROUND TELEPHONE DUCT SYSTEM (HTCO/JTS/AF)
- D24 — EXISTING DRAIN LINE
- G4 — EXISTING GAS LINE
- W30 — EXISTING WATER LINE
- WIDENED SECTION

GENERAL NOTES

1. LOCATION OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES, SUCH AS PIPELINES, CONDUITS, CABLES, ETC. SHOWN ON THE PLANS ARE APPROXIMATE ONLY. IT IS NOT THE INTENT OF THESE PLANS TO SHOW THE EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES AND STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS IN THE FIELD WITH THE RESPECTIVE AGENCIES. EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST.
2. EXISTING UTILITIES INDICATED AS "ABANDONED" SHALL BE SO VERIFIED IN THE FIELD BY THE CONTRACTOR WITH THE RESPECTIVE AGENCIES.



4" SPLIT-CASE DUCT SECTION
NO SCALE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TEMPORARY WIDENING - EXISTING UTILITY PLAN

NIMITZ HWY. AT HICKAM AFB MAIN GATE

NIMITZ SPUR
F.A.I. Proj. No. I-HI-1(99):15
SCALE: AS SHOWN DATE: MARCH 23, 1977

SHEET No. 2 OF 2 SHEETS

C.O. 69 S-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(22)15	1977	70	350

STOP
R1-1
(RELOCATED EXIST. SIGN)
IA

16-TRAFFIC DELINEATORS @ 20' O.C. IA

CENTER DRIVE TEMPORARY WIDENING (SEE DETAIL SHT. 80) IVB

10 DELINEATORS @ 20' O.C. I

TRUE NORTH SCALE 1"=100'

⚠ 6' HIGH TEMPORARY FENCE W/VERT. WOODEN PICKETS 1515 L.F. IVB

INSTALL TEMPORARY 3 WAY TRAFFIC LIGHTS (SEE SHT. 87) II

RAMP N-1P TEMPORARY WIDENING (SEE DETAIL SHT. 83)

⚠ ONLY
R3-10(L)
EXIST. SIGN TO REMAIN
IC

⚠ DETOUR RD. "B" (SEE DETAIL, SHT. 81)

6' HIGH TEMPORARY FENCE W/ VERTICAL WOODEN PICKETS 1190 L.F. IC

BEGIN PROJECT

SPEED LIMIT 25
R2-1(25)
IC

10-DELINEATORS @ 60' O.C. IB

SPEED LIMIT 25
R2-1(25)
I-C

ROAD CONSTRUCTION 500FT
CW 20-1C
I-C

ROAD CLOSED
R11-2

4 CLASS I BARRICADES @ 12' O.C. IC

DETOUR
CM4-10(L)
MOUNTED ON BARRICADES I-C

4-CLASS I BARRICADES @ 12' O.C. I

DETOUR RD. "B" (SEE DTL., SHT. 81)

7-TRAFFIC DELINEATORS @ 20' O.C. I

SPEED LIMIT 25
R2-1(25)
IC

6' HIGH TEMPORARY CHAIN LINK FENCE W/ VERTICAL WOODEN PICKETS 1,450 L.F. II

ROAD CLOSED
R11-2

DETOUR
CM4-10(L)
(MOUNTED ON BARRICADE) I

4-CLASS I BARRICADES @ 12' O.C. I

NOTE:
FOR WORK REQUIRED AT BEGIN PROJECT PRIOR TO PHASE I PAVING, SEE INTERFACE DETAIL, SHT. 71 ⚠2

MATCH LINE

PROVIDE PEDESTRIAN WAY W/OPENING IN FENCE

6-TRAFFIC DELINEATORS @ 20' O.C. I-C

8' HIGH TEMPORARY CHAIN LINK FENCE W/ VERTICAL WOODEN PICKETS 670 L.F. II-A

8-TRAFFIC DELINEATORS @ 12' O.C. II

2 CLASS I BARRICADES @ 12' OC. I

TEMPORARY WIDENING VANDENBERG BLVD. (FOR DETAIL, SEE SHT. 83)

DETOUR ROAD "A" (SEE DETAIL, SHT. 81)

END PROJECT

1-CLASS I BARRICADE

10-TRAFFIC DELINEATORS @ 20' O.C. I

MOKULELE ELEMENTARY SCHOOL

6-CLASS I BARRICADES @ 12' O.C. I

1-TRAFFIC DELINEATORS @ 20' O.C. I

ROAD CLOSED
R11-2
(MOUNTED ON BARRICADE) I

9-TRAFFIC DELINEATORS @ 20' O.C. I

END CONSTRUCTION
CG 20-2
IVC

ROAD CONSTRUCTION 500 FT
CW 20-1C
IVC

MATCH LINE

500'

500'

FIRST HAWAIIAN BANK

15TH STREET

14TH STREET

CAFETERIA

T-BST

T-SLG

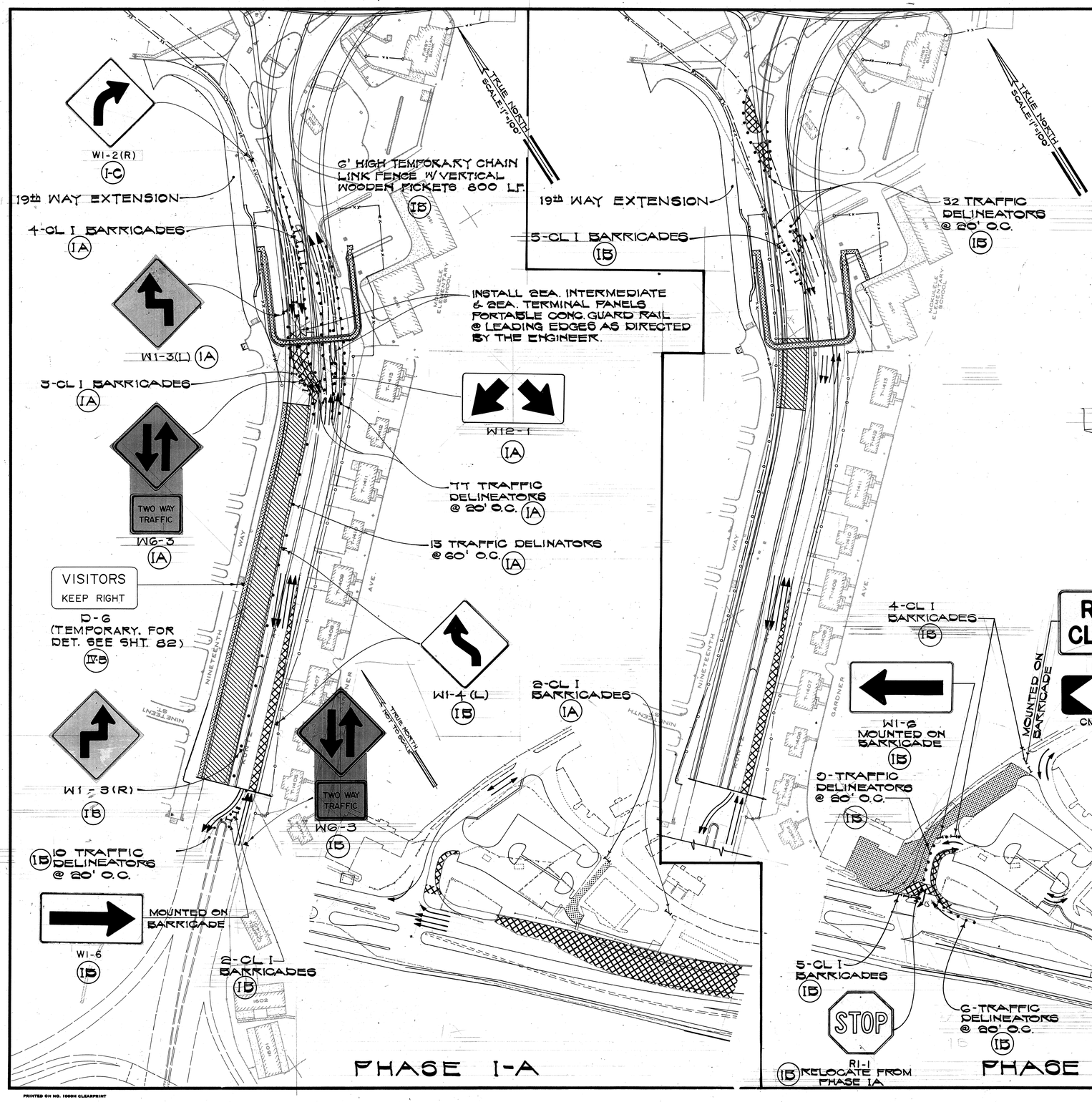
T-SLG

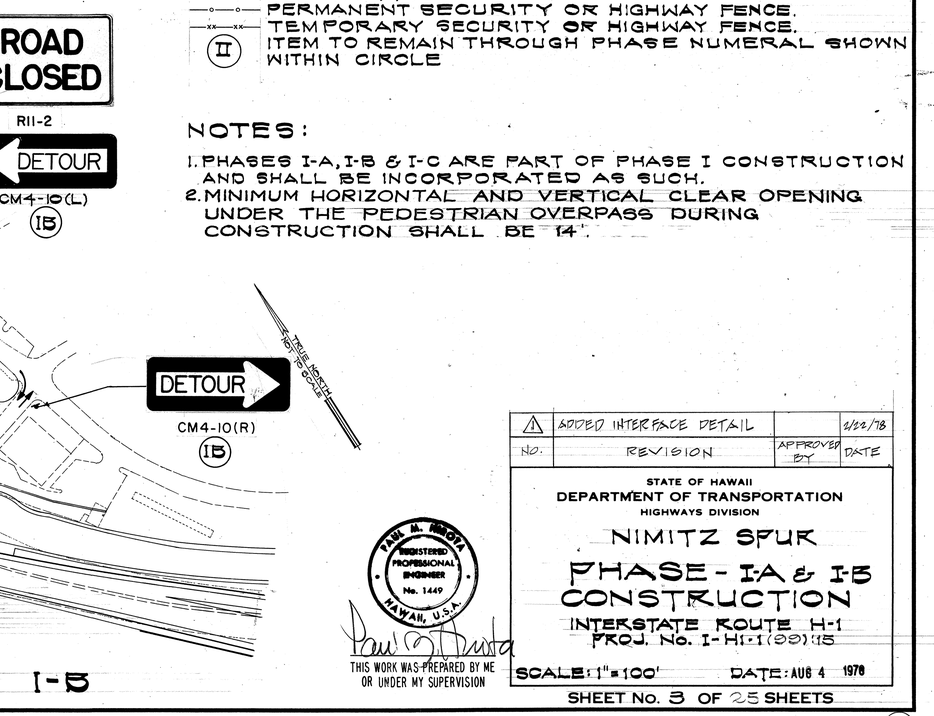
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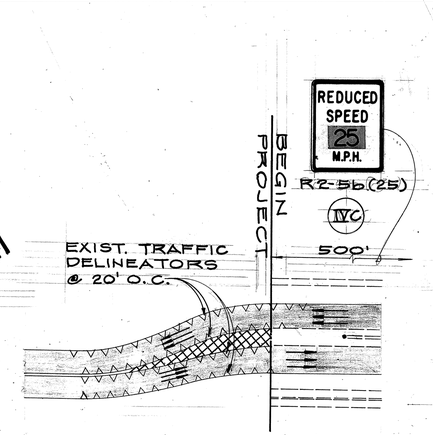
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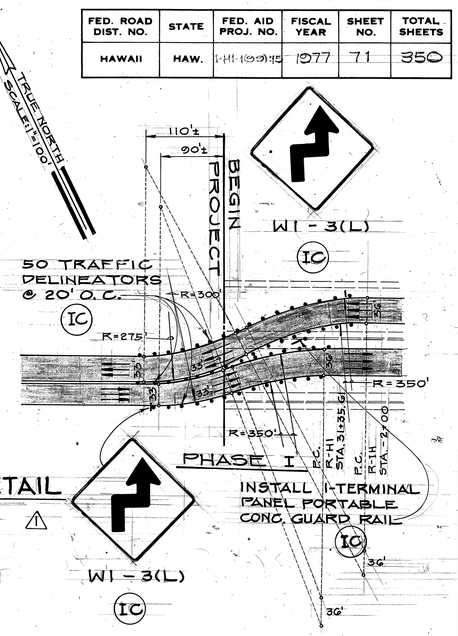
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	71	350







EXISTING
INTERFACE DETAIL
PHASE I



PHASE I

LEGEND:

- PHASE I-A OR I-B CONSTRUCTION (TO LEVELLING COURSE) ROAD COMPLETED TO LEVELLING COURSE AND UTILIZED FOR TRAFFIC.
- PHASE I-A OR I-B CONSTRUCTION (TO FINISH GRADE)
- PHASE I-A OR I-B CONSTRUCTION (TEMPORARY ROAD)
- EXISTING ROAD UTILIZED FOR TRAFFIC OR CONSTRUCTION COMPLETED AND IMPROVEMENTS IN USE
- TEMPORARY ROAD COMPLETED AND UTILIZED FOR TRAFFIC.
- —o—o— PERMANENT SECURITY OR HIGHWAY FENCE.
- —xx—xx— TEMPORARY SECURITY OR HIGHWAY FENCE.
- (II) ITEM TO REMAIN THROUGH PHASE NUMERAL SHOWN WITHIN CIRCLE

NOTES:

1. PHASES I-A, I-B & I-C ARE PART OF PHASE I CONSTRUCTION AND SHALL BE INCORPORATED AS SUCH.
2. MINIMUM HORIZONTAL AND VERTICAL CLEAR OPENING UNDER THE PEDESTRIAN OVERPASS DURING CONSTRUCTION SHALL BE 14'.

NO.	REVISION	APPROVED BY	DATE
1	ADDED INTERFACE DETAIL		2/22/78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
PHASE - I-A & I-B CONSTRUCTION

INTERSTATE ROUTE H-1
PROJ. No. I-HI-1(99)15

SCALE: 1"=100' DATE: AUG 4 1976

SHEET No. 3 OF 25 SHEETS

PAUL M. ESTOTA
REGISTERED PROFESSIONAL ENGINEER
No. 1449
HAWAII, U.S.A.

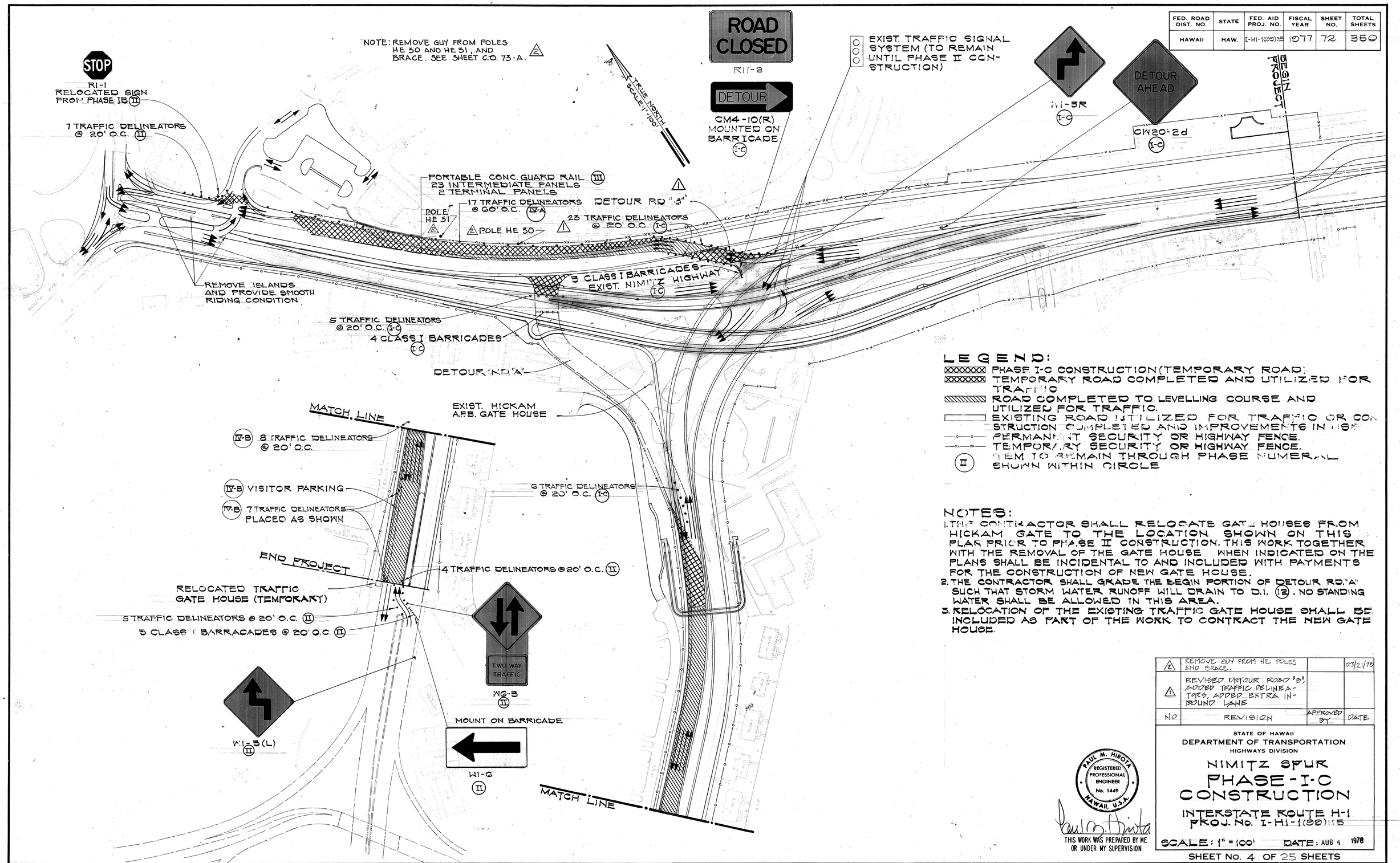
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

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

PRINTED ON NO. 1000H CLEARPRINT

C.O. 71

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	72	350



LEGEND:

- PHASE I-C CONSTRUCTION (TEMPORARY ROAD)
- TEMPORARY ROAD COMPLETED AND UTILIZED FOR TRAFFIC
- ROAD COMPLETED TO LEVELLING COURSE AND UTILIZED FOR TRAFFIC.
- EXISTING ROAD UTILIZED FOR TRAFFIC OR CONSTRUCTION COMPLETED AND IMPROVEMENTS IN USE
- —o—o— PERMANENT SECURITY OR HIGHWAY FENCE.
- —xx—xx— TEMPORARY SECURITY OR HIGHWAY FENCE.
- (II) ITEM TO REMAIN THROUGH PHASE NUMERAL SHOWN WITHIN CIRCLE

NOTES:

1. THE CONTRACTOR SHALL RELOCATE GATE HOUSES FROM HICKAM GATE TO THE LOCATION SHOWN ON THIS PLAN PRIOR TO PHASE II CONSTRUCTION. THIS WORK TOGETHER WITH THE REMOVAL OF THE GATE HOUSE WHEN INDICATED ON THE PLANS SHALL BE INCIDENTAL TO AND INCLUDED WITH PAYMENTS FOR THE CONSTRUCTION OF NEW GATE HOUSE.
2. THE CONTRACTOR SHALL GRADE THE BEGIN PORTION OF DETOUR RD. "A" SUCH THAT STORM WATER RUNOFF WILL DRAIN TO D.I. (12). NO STANDING WATER SHALL BE ALLOWED IN THIS AREA.
3. RELOCATION OF THE EXISTING TRAFFIC GATE HOUSE SHALL BE INCLUDED AS PART OF THE WORK TO CONTRACT THE NEW GATE HOUSE.

NO	REVISION	APPROVED BY	DATE
2	REMOVE GUY FROM HE POLES AND BRACE.		03/21/78
1	REVISED DETOUR ROAD "B", ADDED TRAFFIC DELINEATORS, ADDED EXTRA INBOUND LANE		

PAUL M. HIROTA REGISTERED PROFESSIONAL ENGINEER No. 1449 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
PHASE-I-C CONSTRUCTION

INTERSTATE ROUTE H-1
PROJ. No. I-HI-1(99)15

SCALE: 1" = 100' DATE: AUG 8 1978

SHEET No. 4 OF 25 SHEETS

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY | DATE
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PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(69)15	1977	73	350

RELOCATE EXISTING ONLY R3-19(L) (II) (1)

Pearl Harbor ← Hickam AFB
D-7 (TEMPORARY) SEE DETAIL SHT. 82 (II)

TRUE NORTH SCALE 1"=100'

NO LEFT TURN R3-2 MOUNTED ON SIGNAL POST (II)

WI-3(L) (II) (2)

INSTALL TEMPORARY 2-WAY TRAFFIC LIGHTS SEE SHT. 87 (II) (2)

RELOCATE EXISTING ONLY R3-19(L) (IV) (1) (2)

Hickam AFB KEEP LEFT (IV)
D-8 (TEMPORARY SEE DETAIL SHT. 82) (2)

PORTABLE CONC. GUARD RAILS
25 INTERMEDIATE PANELS
1 TERMINAL PANEL (III)

BEGIN PROJECT

SEE SHEET 73A FOR ADDITION DETAILS OF RAMP N-IF TEMPORARY WIDENING (2)

7 TRAFFIC DELINEATORS @ 20' O.C. (II)

SPEED LIMIT 25 R2-1(25) (II) (IV C)

INSTALL 30'± 6' HIGH TEMPORARY FENCE (1)

200'
10' TRAFFIC DELINEATORS @ 20' O.C. (II)
CONNECT PORTABLE CONC. GUARD RAIL TO EXISTING

NOTE: (2) SEE PHASE ID PLAN, THIS SHEET FOR WORK REQUIRED PRIOR TO PHASE II INTERFACE CONNECTIONS.

15 TRAFFIC DELINEATORS @ 20' O.C. (II)
6 TRAFFIC DELINEATORS @ 20' O.C. (II)
5 CL. I BARRICADES (II)

500'
ROAD CONSTRUCTION 500 FT
CW 20-1C (IV-C)

PORTABLE CONC. GUARD RAIL
30 INTERMEDIATE PANELS
2 TERMINAL PANELS (III)

SPEED LIMIT 25 R2-1(25) (II)

MOVE ONLY IN DIRECTION OF GREEN ARROW
R10-2 MOUNTED ON SIGNAL POLE (II)

WI-3(L) (II) (2)

MATCH LINE

R3-11(R)
NO RIGHT TURN ON RED R10-4 (II)

SPEED LIMIT 25 R2-1(25) (II)

SIGNAL AHEAD W3-3 (II)

4 TRAFFIC DELINEATORS @ 20' O.C. (II)

VISITORS PARKING (SEE PHASE I-C)

END PROJECT

TEMPORARY ROAD "C" (SEE DETAIL SHT. 82A (2)

WI-3(L) (II)
8 CL. I BARRICADES (II)

WI-6 MOUNTED ON BARRICADE (III)

SPEED LIMIT 25 R2-1(25) (IV C)

WI-3(R) (II)

7 TRAFFIC DELINEATORS @ 60' O.C. (II)

TEMPORARY ROAD "D" (SEE DETAIL SHT. 82)

1 TRAFFIC DELINEATORS @ 20' O.C. (II)

MATCH LINE

PLAN - PHASE II

TWO WAY TRAFFIC WG-3 (II-A)
3 CLASS I BARRICADES @ 20' O.C. (II-A)
CONSTRUCT PERMANENT SENTRY BUILDING
17 TRAFFIC DELINEATORS @ 20' O.C. (II-A)
WI-6 MOUNTED ON BARRICADE. (II-A)
WI-3(L) (II-A)

PLAN - PHASE II-A

BEGIN PROJECT
6 TRAFFIC DELINEATORS @ 60' O.C. (IV A)
50 TRAFFIC DELINEATORS @ 20' O.C. (IV A)
WI-3(R) (IV A)
10 TRAFFIC DELINEATORS @ 20' O.C. (ID)
CONNECT PORTABLE CONC. GUARD RAIL TO EXISTING

PLAN - PHASE ID (2)

LEGEND:

- PHASE II CONSTRUCTION (TO LEVELLING COURSE)
- ROAD COMPLETED TO LEVELLING COURSE AND UTILIZED FOR TRAFFIC
- PHASE II CONSTRUCTION (TO FINISH GRADE)
- PHASE II CONSTRUCTION (TEMPORARY ROAD)
- EXISTING ROAD UTILIZED FOR TRAFFIC OR CONSTRUCTION COMPLETED AND IMPROVEMENTS IN USE.
- TEMPORARY ROAD COMPLETED AND UTILIZED FOR TRAFFIC
- PERMANENT SECURITY OR HIGHWAY FENCE
- TEMPORARY SECURITY OR HIGHWAY FENCE
- (III) ITEM TO REMAIN THROUGH PHASE NUMERAL SHOWN WITHIN CIRCLE

NOTES:

1. ESTIMATED CONSTRUCTION SCHEDULE: 275 WORKING DAYS.
2. RELOCATION OF THE EXISTING SENTRY POST/BOOTH SHALL BE INCLUDED AS PART OF THE NEW SENTRY CONCRETE BOOTH WORK.

NO.	REVISION	APPROVED BY	DATE
(3)	REVISED PLAN-ROAD 'C', EXTENDED USE OF DELINEATORS, BEGIN PROJECT THRU PHASE II		9-12-78
(2)	REVISED BEGIN PROJECT CONN. ADDED PHASE ID., MISC. SIGNS AND NOTES.		3-21-78
(1)	ADDED RELOCATION R3-19(L) SIGNS, ADDED TEMPORARY FENCING, ADDED EXTRA INBOUND LANE		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
PHASE - II CONSTRUCTION

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(69)15

SCALE: 1" = 100' DATE: AUG 4 1976

PAUL M. HIROTA REGISTERED PROFESSIONAL ENGINEER No. 1449 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SHEET No. 8 OF 25 SHEETS

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

PRINTED ON NO. 1000H CLEARPRINT

C.O. 73

FED. ROAD DIST. NO.	STATE	FED. AND PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99):15	1977	73-A	350

CURVE DATA			
	①	②	③
Δ	11°35'26"	9°33'45"	9°17'18"
Δ/2	5°47'43"	4°46'52.5"	4°38'39"
R	1478.05	400.00	240.00
T	150.01	33.46	19.50
C_h	298.49	66.68	38.86
L_c	299.00	66.76	38.91

N

NOTE: SEE SHT. 83D FOR TEMPORARY STRIPING OTHER THAN NOTED.

APPROXIMATE SOUTH DRIVE E.P.

TEMPORARY BRACING (BY HECO) CONSTRUCT IN PHASE I C (IV A)

REMOVE GUY. REPLACE AFTER DETOUR DELETED (BY HECO) CONSTRUCT IN PHASE IC (IV A)

PORTABLE CONCRETE GUARDRAIL 1-INTERMEDIATE PANEL 1-TERMIIDAL PAUEL INSTALLED IN PHASE I C (IV A)

HE 31

TEMP. WIDENING E.P.

PEARL HARBOR N.B.

12+00 N-IP ℄

R=400'

APPROXIMATE SOUTH DRIVE E.P.

REMOVE GUY REPLACE AFTER DETOUR DELETED (BY HECO) CONSTRUCT IN PHASE IC (IV A)

GUY

TEMPORARY BRACING. (BY HECO) CONSTRUCT IN PHASE IC (IV A)

HE 30

11+67.49 ℄ 28 RT.

R=240'

PORTABLE CONCRETE GUARD RAIL 1-INTERMEDIATE PANEL 1-TERMINAL PANEL (IV A)

PROPOSED TEMPORARY WIDENING E.P.

4" SOLID WHITE STRIPES

4" YELLOW STRIPE

STA. 10+60 ℄ 32.65' RT.

4" SOLID WHITE STRIPES.

NAVY STUB POLE HE 28X

HTCO MH #2618 FURNISH TEMPORARY ACCESS W/ FRAME & COVER, TO DETOUR GRADE. REMOVE AFTER DETOUR DELETED (BY CONTRACTOR) (IV A)

N-IP P.C. 8+51.48

7+58.17 R=1478.05 (RT. E.P.)

EXISTING NAVY POLE NH-4D

TEMPORARY WOOD BRACES (BY CONTRACTOR) (IV A)

GUY

APPROXIMATE SOUTH DRIVE E.P.

PORTABLE CONCRETE GUARDRAIL 2-INTERMEDIATE PAUEL 1-TERMINAL PAUEL (IV A)

NAVY STUB POLE

REMOVE GUY REPLACE AFTER DETOUR DELETED (BY CONTRACTOR) (IV A)

HE 28 ℄ GUY

GUARD RAIL ℄ 3' FROM E.P.

N-IP ℄

7+00

8+00

9+00

10+00

11+00

PORTABLE CONCRETE BARRIER SEE SHEET C.O. 73

4" DOTTED WHITE STRIPES END @ STA N-IP 12+60

P.I. CURVE 2 N-IP

STRIPED MEDIAN 8" DIAGONAL YELLOW STRIPES

DETOUR RD. "A" 0+00 = N-IP ℄ 11+00

HICKAM AFB

R=400'

HONOLULU

NAVY ELECTRICAL MANHOLE # 105 FURNISH TEMPORARY ACCESS W/ FRAME & COVER TO DETOUR GRADE. REMOVE AFTER DETOUR DELETED (BY CONTRACTOR) (IV A)

END GUARDRAIL N-IP 10+50 ℄ LT.

12" WHITE STOP BAR

4" SOLID WHITE STRIPE

PORTABLE CONCRETE GUARDRAIL SEE SHEET C.O. 73

RICHARD S. ABE REGISTERED PROFESSIONAL ENGINEER No. 3666 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
REVISED N-IP TEMPORARY WIDENING IN-BOUND TO PEARL HARBOR PHASE II CONSTRUCTION

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(99):15

SCALE: 1"=20' DATE: MAR. 21, 1978

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	74	350

12-TRAFFIC DELINEATORS @ 20' o.c. III

2-TRAFFIC DELINEATORS @ 60' o.c. III

STOP R1-1 III

CONSTRUCT GATE HOUSE

8-TRAFFIC DELINEATORS @ 20' o.c. III

15-TRAFFIC DELINEATORS @ 20' o.c. III

4-TRAFFIC DELINEATORS @ 60' o.c. III

RELOCATE FROM PHASE II

STOP R1-1 III

20-TRAFFIC DELINEATORS @ 20' o.c. III

MOUNT ON BARRICADE

RELOCATED SENTRY POST/BOOTH (TEMPORARY)

W1-3(L) III 3

† ARIZONA MEMORIAL VISITORS PASS 4 P.M.-6:30 A.M. DAILY ALL DAY WEEK END AND HOLIDAYS

VISITOR PARKING SEE PHASE IC

7-TRAFFIC DELINEATORS @ 60' o.c. III

END PROJECT

17-TRAFFIC DELINEATORS @ 20' o.c. III

W12-1 III

NO LEFT TURN R3-2 III 4

INSTALL: 1-INTERMEDIATE & 1-TERMINAL PANEL PORTABLE CONCRETE GUARD RAIL

ARIZONA MEMORIAL VISITORS PASS

W1-5(L) III 3

REMOVE 2 EA. END PANELS & INSTALL 8-INTERMEDIATE PANELS PORTABLE CONC. G.R.

TRUE NORTH SCALE 1"=100'

MOUNT ON SIGNAL POLE

MOVE ONLY IN DIRECTION OF GREEN ARROW R16-2 III

REMOVE 6 INTERMEDIATE PANELS & INSTALL 2 EA. END PANELS PORTABLE CONC. G.R.

40 LF METAL G.R.

RELOCATE 1-TERMINAL & 10-INTERMEDIATE PANELS PORTABLE CONC G.R. FROM PHASE II

6-CLASS I BARRICADE III

4 6-CLASS I BARRICADES @ 12' O.C. III

4 8-CLASS I BARRICADES III

MATCH LINE

27-TRAFFIC DELINEATORS @ 20' o.c. III

REMOVE TEMPORARY FENCING & INSTALL PERMANENT FENCING

7-TRAFFIC DELINEATORS @ 60' o.c. III

4-TRAFFIC DELINEATORS @ 20' o.c. IV

RELOCATE SIGNS FROM PHASE II

Pearl Harbor
Hickam AFB
D-7

ONLY R3-19(L) IV 1

H-1 WEST Waianae H-1 EAST Honolulu Airport
D-8 4

9-TRAFFIC DELINEATORS @ 20' O.C. III

REMOVE 45 INTERMEDIATE PANELS AS REQUIRED & REINSTALL 14 EA. PANELS & TRAFFIC DELINEATORS @ 60' O.C. III

CONNECT PORTABLE CONCRETE GUARD RAIL TO EXISTING MEDIAN BARRIER

24-TRAFFIC DELINEATORS @ 20' O.C. III

DETOUR ROAD "E" (SEE SHT. C.O. 825 FOR DETAILS) 4

OVERHEAD CABLE RUN FOR FLASHER WHEREVER POSSIBLE. CABLE (1-2C #6) TO EXISTING BREAKER 5

W1-3(R) 4

SPEED LIMIT 25 R2-1(25) III

STOP HERE ON RED R10-6 III 4

INSTALL: 1-INTERMEDIATE & 1-TERMINAL PANEL PORTABLE CONCRETE GUARD RAIL

INSTALL AMBER FLASHER AND W8-2 3 ON PORTABLE 4"X4" POST w/ COUNTER-WEIGHTS

DIP SIGNAL AHEAD W3-3 III 4

INSTALL REDUCED SPEED 15 M.P.H R2-5b(15) 3 w/POST

W1-6 III MOUNT ON BARRICADE

SIGNAL AHEAD W3-3 W/POST

5-CLASS I BARRICADE III

TWO WAY TRAFFIC W6-3 III

6-TRAFFIC DELINEATORS @ 60' o.c. IV

14-TRAFFIC DELINEATORS @ 20' o.c. III

W1-3(K) III

13-TRAFFIC DELINEATORS @ 20' o.c. III

MATCH LINE

LEGEND:

- ROAD COMPLETED TO LEVELLING COURSE & UTILIZED FOR TRAFFIC.
- PHASE III CONSTRUCTION (TO FINISH GRADE)
- EXIST. ROAD UTILIZED FOR TRAFFIC OR CONSTRUCTION COMPLETED & IMPROVEMENTS IN USE.
- TEMPORARY ROAD COMPLETED & UTILIZED FOR TRAFFIC.
- PERMANENT SECURITY OR HIGHWAY FENCE.
- TEMPORARY SECURITY OR HIGHWAY FENCE.
- IV ITEM TO REMAIN THROUGH PHASE NUMERAL SHOWN.

NOTES:

1. ESTIMATED CONSTRUCTION SCHEDULE: 30 WORKING DAYS.
2. RELOCATION OF EXISTING SENTRY POST/BOOTH SHALL BE INCLUDED AS PART OF THE NEW CONCRETE SENTRY/BOOTH.

NO.	REVISION	APPROVED BY	DATE
4	REVISED ROAD 'C' PLAN AND ADDED ROAD 'E'		12/25/78
3	REVISED BEGIN PROJECT CONNECTION, REVISED WARNING SIGNS.		4/6/78
2	REVISED BEGIN PROJECT CONNECTION DETAILS		3/22/78
1	REVISED R3-19(L) SIGN ADDED EXTRA INBD. LANE.		
5	REVISE SIGNING PLAN AND INSTALL AMBER FLASHER FOR DIP 3/28/79		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
PHASE - III CONSTRUCTION

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(99)15

SCALE: 1" = 100' DATE: AUG 4 1976

SHEET NO. 6 OF 25 SHEETS

PAUL M. HIROTA REGISTERED PROFESSIONAL ENGINEER No. 1449 HAWAII, U.S.A.

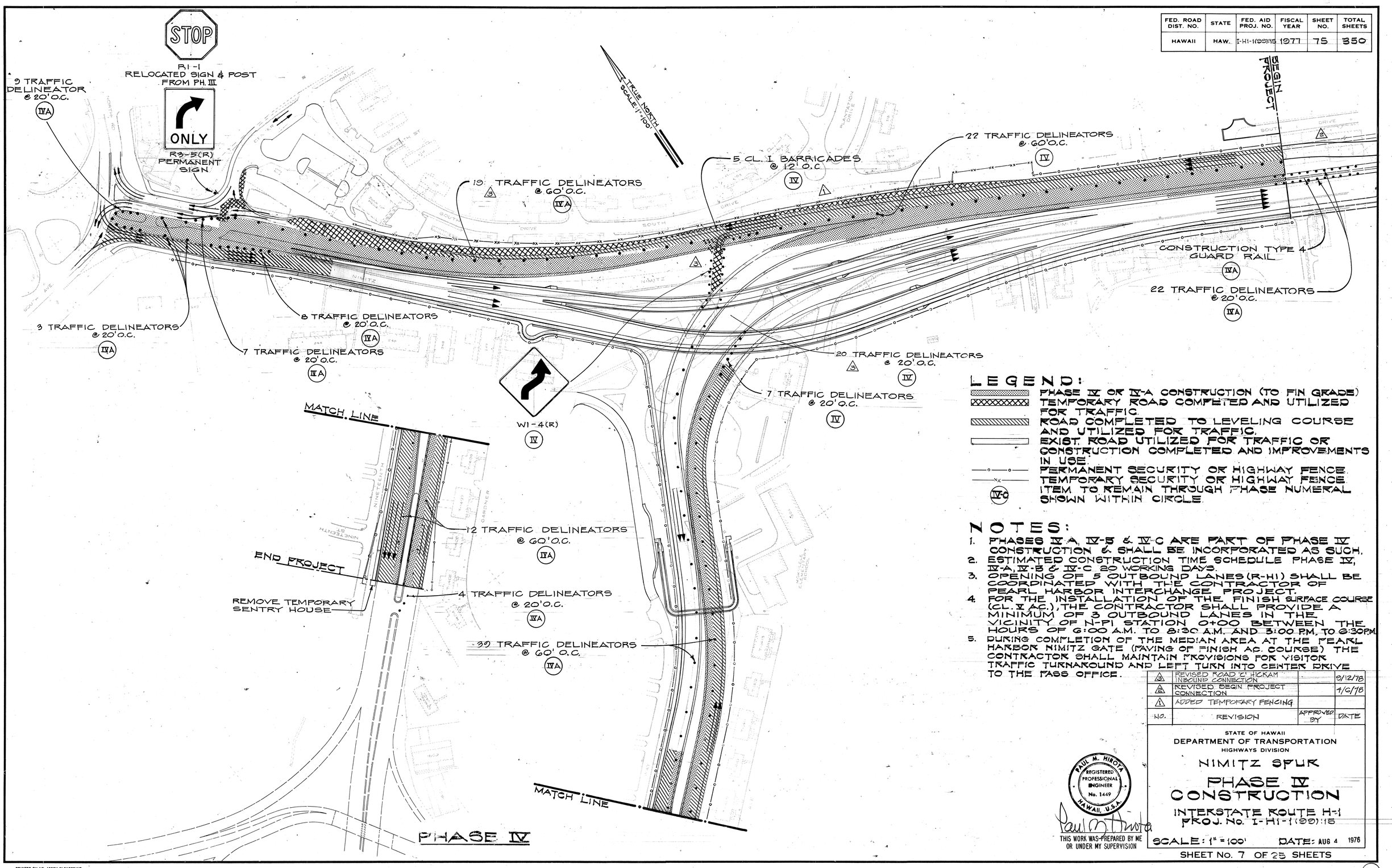
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

ORIGINAL PLAN
NOTE BOOK
NO.
SURVEY PLOTTED BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

PRINTED ON NO. 1000H CLEARPRINT

C.O. 74

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	75	350



LEGEND:

- PHASE IV OR IV-A CONSTRUCTION (TO FIN GRADE)
- TEMPORARY ROAD COMPLETED AND UTILIZED FOR TRAFFIC.
- ROAD COMPLETED TO LEVELING COURSE AND UTILIZED FOR TRAFFIC.
- EXIST. ROAD UTILIZED FOR TRAFFIC OR CONSTRUCTION COMPLETED AND IMPROVEMENTS IN USE.
- PERMANENT SECURITY OR HIGHWAY FENCE.
- TEMPORARY SECURITY OR HIGHWAY FENCE.
- IV-C ITEM TO REMAIN THROUGH PHASE NUMERAL SHOWN WITHIN CIRCLE.

NOTES:

1. PHASES IV-A, IV-B & IV-C ARE PART OF PHASE IV CONSTRUCTION & SHALL BE INCORPORATED AS SUCH.
2. ESTIMATED CONSTRUCTION TIME SCHEDULE PHASE IV, IV-A, IV-B & IV-C 20 WORKING DAYS.
3. OPENING OF 5 OUTBOUND LANES (R-HI) SHALL BE COORDINATED WITH THE CONTRACTOR OF PEARL HARBOR INTERCHANGE PROJECT.
4. FOR THE INSTALLATION OF THE FINISH SURFACE COURSE (CL. II AC.), THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 3 OUTBOUND LANES IN THE VICINITY OF N-P1 STATION 0+00 BETWEEN THE HOURS OF 6:00 A.M. TO 8:30 A.M. AND 3:00 P.M. TO 6:30 P.M.
5. DURING COMPLETION OF THE MEDIAN AREA AT THE PEARL HARBOR NIMITZ GATE (PAVING OF FINISH AC. COURSE) THE CONTRACTOR SHALL MAINTAIN PROVISIONS FOR VISITOR TRAFFIC TURNAROUND AND LEFT TURN INTO CENTER DRIVE TO THE PASS OFFICE.

NO.	REVISION	APPROVED BY	DATE
3	REVISED ROAD C' HICKAM INBOUND CONNECTION		9/12/78
2	REVISED BEGIN PROJECT CONNECTION		1/6/78
1	ADDED TEMPORARY FENCING		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
PHASE IV CONSTRUCTION

INTERSTATE ROUTE H-1
PROJ. No. I-HI-1(99)15

SCALE: 1" = 100' DATE: AUG 4 1976

PAUL M. HIROTA
REGISTERED PROFESSIONAL ENGINEER
No. 1449
HAWAII, U.S.A.

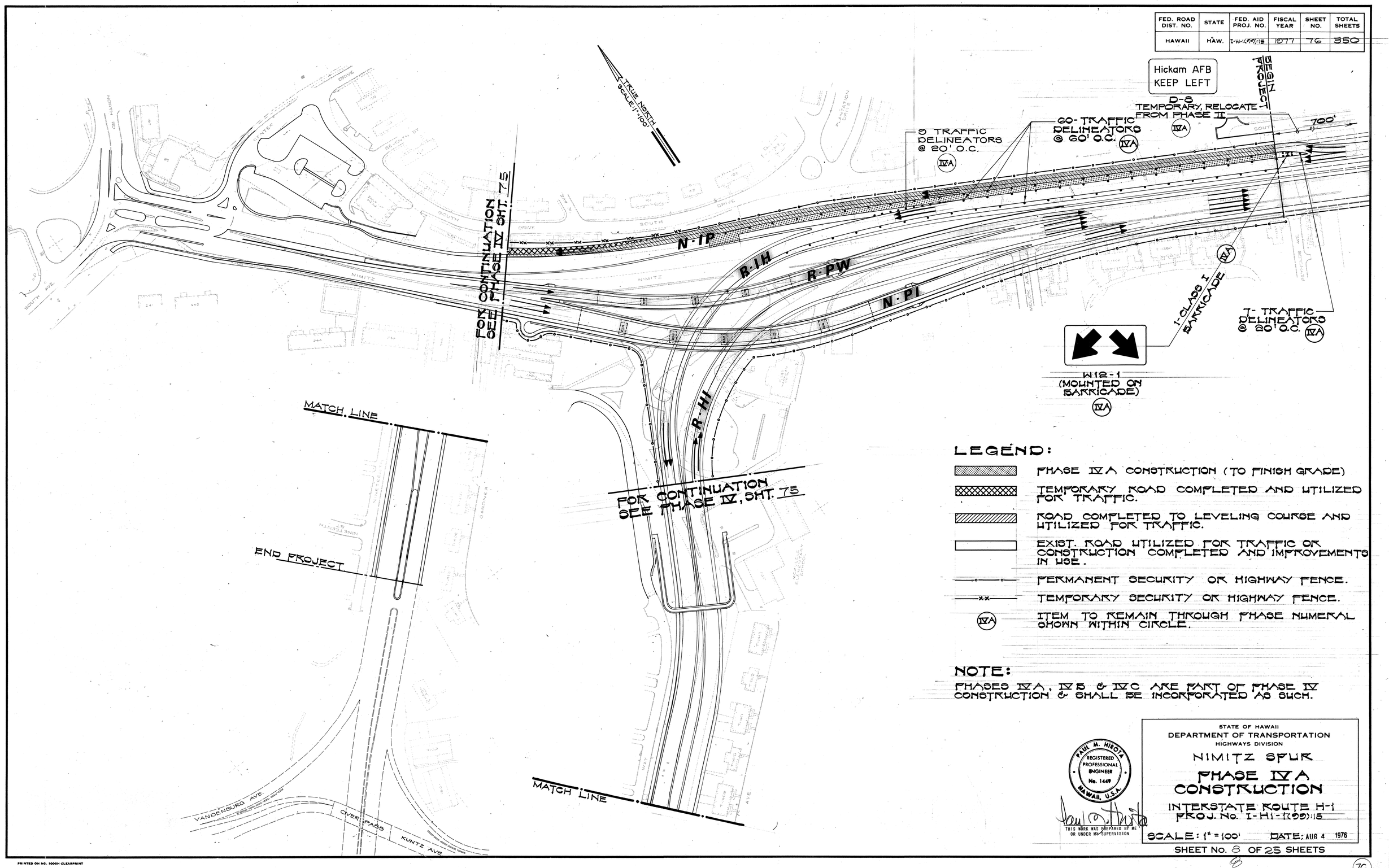
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SHEET No. 7 OF 25 SHEETS

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

PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	76	350



LEGEND:

- PHASE IV A CONSTRUCTION (TO FINISH GRADE)
- TEMPORARY ROAD COMPLETED AND UTILIZED FOR TRAFFIC.
- ROAD COMPLETED TO LEVELING COURSE AND UTILIZED FOR TRAFFIC.
- EXIST. ROAD UTILIZED FOR TRAFFIC OR CONSTRUCTION COMPLETED AND IMPROVEMENTS IN USE.
- PERMANENT SECURITY OR HIGHWAY FENCE.
- TEMPORARY SECURITY OR HIGHWAY FENCE.
- (IVA) ITEM TO REMAIN THROUGH PHASE NUMERAL SHOWN WITHIN CIRCLE.

NOTE:

PHASES IV A, IV B & IV C ARE PART OF PHASE IV CONSTRUCTION & SHALL BE INCORPORATED AS SUCH.

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

PAUL M. HIROTA REGISTERED PROFESSIONAL ENGINEER No. 1449 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
PHASE IV A CONSTRUCTION

INTERSTATE ROUTE H-1
PROJ. No. I-HI-1(99)15

SCALE: 1" = 100' DATE: AUG 4 1976

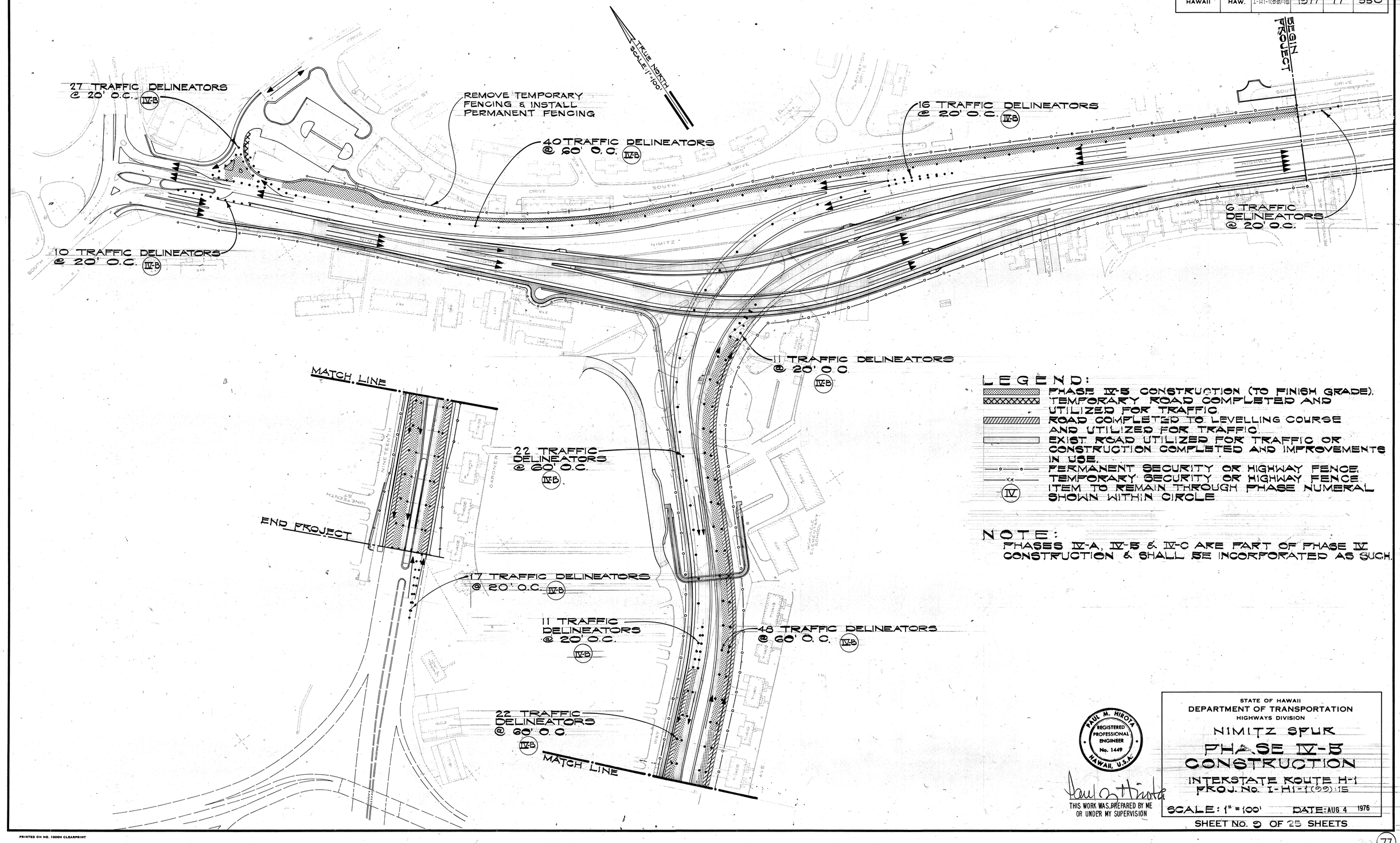
SHEET No. 8 OF 25 SHEETS

8

PRINTED ON NO. 1000H CLEARPRINT

76

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	77	350



LEGEND:

- PHASE IV-5 CONSTRUCTION (TO FINISH GRADE).
- TEMPORARY ROAD COMPLETED AND UTILIZED FOR TRAFFIC.
- ROAD COMPLETED TO LEVELLING COURSE AND UTILIZED FOR TRAFFIC.
- EXIST ROAD UTILIZED FOR TRAFFIC OR CONSTRUCTION COMPLETED AND IMPROVEMENTS IN USE.
- —o—o— PERMANENT SECURITY OR HIGHWAY FENCE.
- —xx— TEMPORARY SECURITY OR HIGHWAY FENCE.
- (IV) ITEM TO REMAIN THROUGH PHASE NUMERAL SHOWN WITHIN CIRCLE

NOTE:

PHASES IV-A, IV-5 & IV-C ARE PART OF PHASE IV CONSTRUCTION & SHALL BE INCORPORATED AS SUCH.

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

PAUL M. HIROTA
REGISTERED PROFESSIONAL ENGINEER
No. 1449
HAWAII, U.S.A.

Paul M. Hirota

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
PHASE IV-5 CONSTRUCTION

INTERSTATE ROUTE H-1
PROJ. No. I-HI-1(99)15

SCALE: 1" = 100' DATE: AUG 4 1976

SHEET No. 9 OF 25 SHEETS

PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15E	1977	78	350

14 - TRAFFIC DELINEATORS @ 20' O.C. (IV-C)

TRUE NORTH
SCALE 1" = 100'

BEGIN PROJECT

MATCH LINE

END PROJECT

7 TRAFFIC DELINEATORS @ 20' O.C. (IV-C)

35 TRAFFIC DELINEATORS @ 60' O.C. (IV-C)

26 TRAFFIC DELINEATORS @ 60' O.C. (IV-C)

MATCH LINE

LEGEND:

- PHASE IV-C CONSTRUCTION (TO FIN. GRADE)
- TEMP. ROAD COMPLETED & UTILIZED FOR TRAFFIC.
- ROAD COMPLETED TO LEVELLING COURSE & UTILIZED FOR TRAFFIC
- EXIST. ROAD UTILIZED FOR TRAFFIC OR CONSTRUCTION COMPLETED & IMPROVEMENTS IN USE.
- PERMANENT SECURITY OR HIGHWAY FENCE.
- TEMPORARY SECURITY OR HIGHWAY FENCE.

NOTE:
PHASES IV-A, IV-B & IV-C ARE PART OF PHASE IV CONSTRUCTION & SHALL BE INCORPORATED AS SUCH.

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

PAUL M. HIROTA
REGISTERED PROFESSIONAL ENGINEER
No. 1449
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
PHASE IV - C CONSTRUCTION

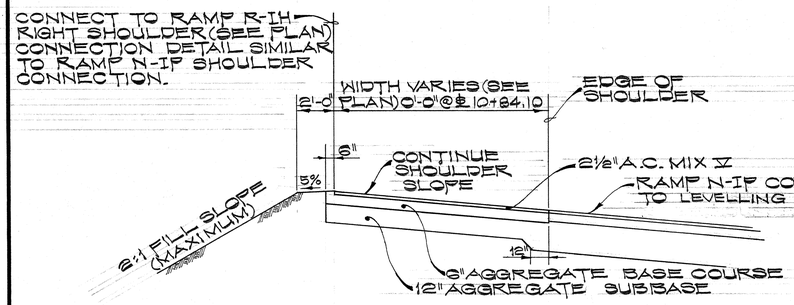
INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(99)15

SCALE: 1" = 100' DATE: AUG 4 1976

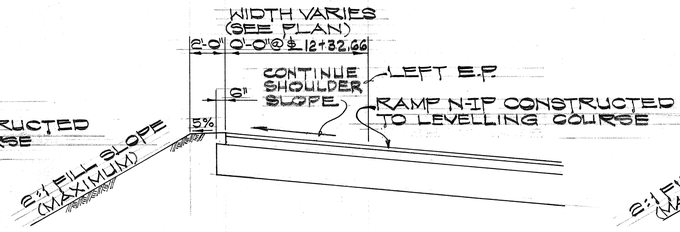
SHEET No. 10 OF 25 SHEETS

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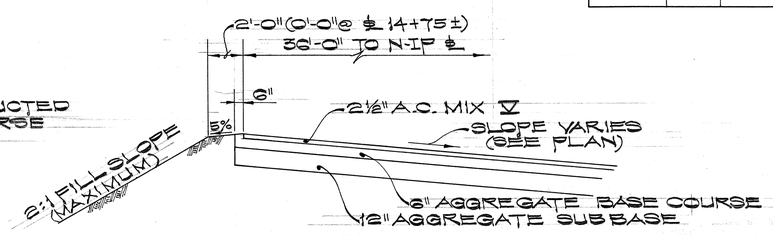
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(22)15	1977	70	350



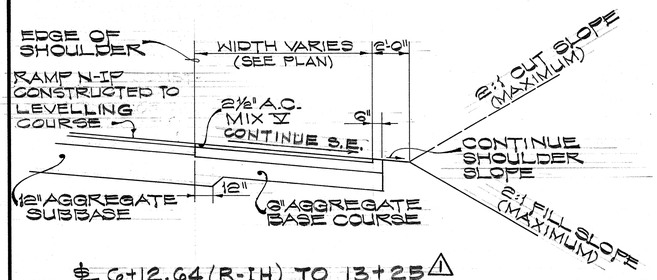
℄ 5+16.21 TO 10+84.10 ⚠



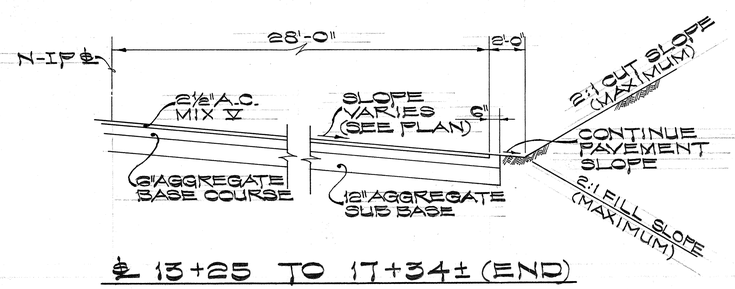
℄ 10+84.10 TO 12+32.66 ⚠



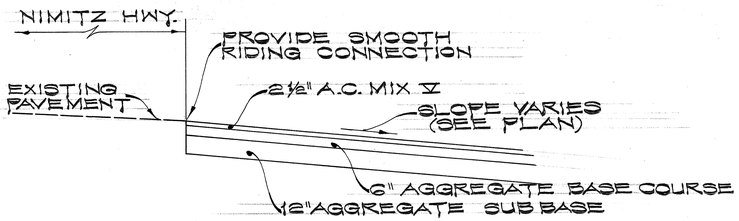
℄ 12+32.66 TO 14+75± ⚠



℄ 6+12.64 (R-1H) TO 13+25 ⚠



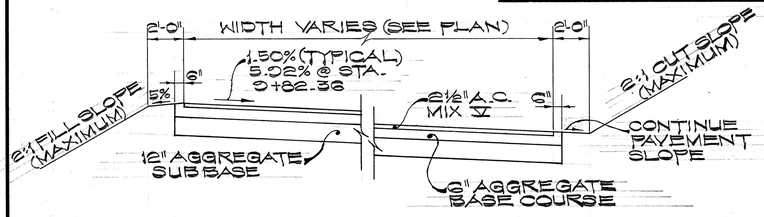
℄ 13+25 TO 17+34± (END)



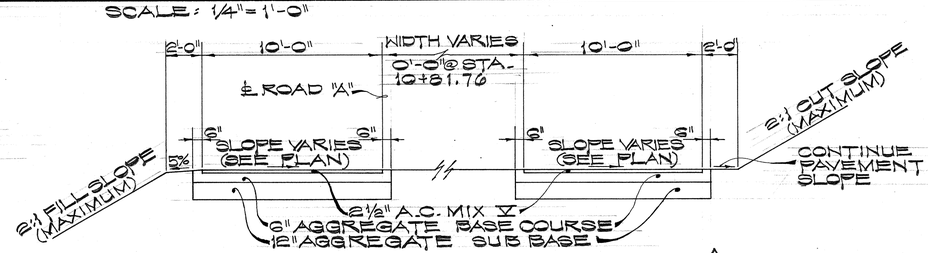
℄ 14+75± TO 17+34± (END)

RAMP N-1P TEMPORARY WIDENING

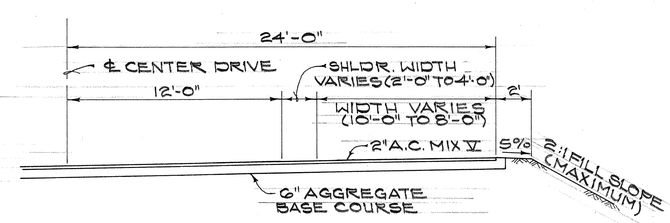
SCALE: 1/4" = 1'-0"



IN CUT-FILL SECTION



STA. 9+77.79 TO 11+12 ±(END) ⚠

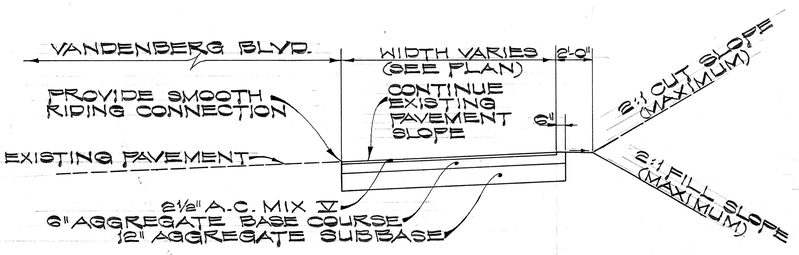


CENTER DRIVE TEMPORARY WIDENING

SCALE: 1/4" = 1'-0"

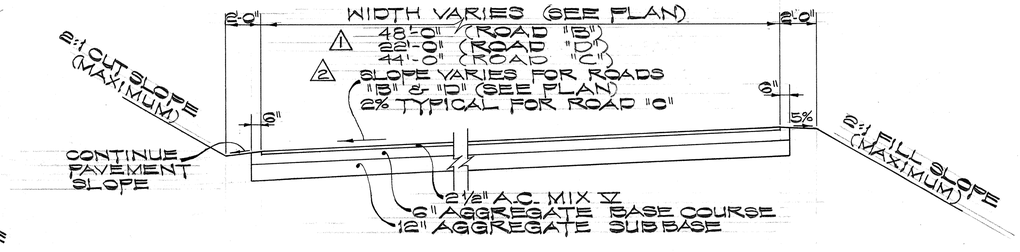
DETOUR ROAD "A"

SCALE: 1/4" = 1'-0"



VANDENBERG BLVD. TEMPORARY WIDENING

SCALE: 1/4" = 1'-0"



DETOUR ROADS "B," "C" & "D"

SCALE: 1/4" = 1'-0"

PAUL M. HIROTA REGISTERED PROFESSIONAL ENGINEER No. 1449 HAWAII, U.S.A.

Paul M. Hirota

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

NO.	REVISION	APPROVED BY	DATE
⚠2	REVISED ROAD "C" TYPICAL SECTIONS		9/12/78
⚠1	REVISED ROAD "A" & N-1P TEMPORARY WIDENING SECTIONS		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NIMITZ SPUR

TYPICAL SECTIONS TEMP. ROADS

INTERSTATE ROUTE H-1
PROJ. No. I-HI-1(22)15

SCALE: 1/4" = 1'-0" DATE: AUG 4 1976

SHEET No. 14 OF 25 SHEETS

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

PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	80	350

DETOUR ROAD SIGN SUMMARY

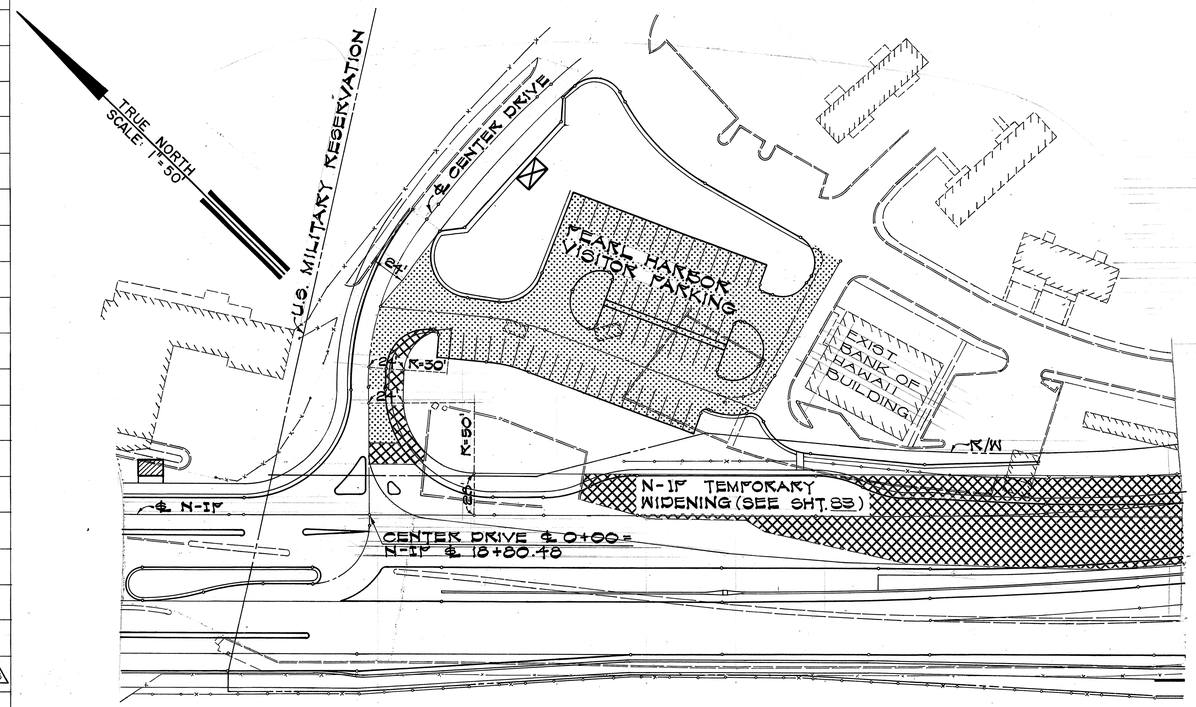
TYPE	DESCRIPTION	TOTAL
R1-1	STOP (USE PERMANENT SIGNS FOR CONST.)	2
R2-1(25)	SPEED LIMIT 25 MPH	5
R2-5b(25)	REDUCED SPEED 25 MPH	1
R3-1a	NO RIGHT TURN	1
R3-2	NO LEFT TURN	1
R3-11(R)		1
R3-19(L)	(RELOCATE) ⚠	4
R4-7B	KEEP RIGHT	1
R11-2	ROAD CLOSED	4
R16-2	MOVE ONLY IN DIRECTION OF GREEN ARROW	1
R16-4	NO RIGHT TURN ON RED	1
R10-4a	TO CROSS STREET PUSH BUTTON WAIT FOR WALK SIGNAL	3
W1-2R		1
W1-3(L)		4 ⚠3
W1-3(R)		3 ⚠3
W1-4(L)		0 ⚠3
W1-4(R)		1
W1-6		2
W3-3	SIGNAL AHEAD	1
W4-2R(L)		1
W6-3	TWO-WAY TRAFFIC	2
W12-1		1
CM4-10(L)	DETOUR	2
CM4-10(R)	DETOUR	1
CW20-2d	DETOUR AHEAD	1
CW20-1C	ROAD CONSTRUCTION 500 FT.	3
CG20-2	END CONSTRUCTION	1
	CLASS I BARRICADES	23
	TRAFFIC DELINEATORS	251 ⚠2
	PORTABLE CONCRETE GUARD RAILS:	
	TERMINAL PANELS ⚠	6 ⚠3
	INTERMEDIATE PANELS ⚠	120 ⚠3

ESTIMATED QUANTITIES — TEMPORARY PAVEMENT ONLY

DESCRIPTION	ROAD "A" ⚠	ROAD "B" ⚠	ROAD "C" ⚠	ROAD "D"	RAMP N-IP & CENTER DRIVE	VANDERBERG BOULEVARD
ROADWAY EXCAVATION (C.Y.) (REMOVAL-SEE NOTE 4 THIS SHEET)	3050	220	670	105	4675	340
ASPHALTIC CONCRETE, MIX V (TONS)	492	35	117	16	825	100
AGGREGATE BASE COURSE (C.Y.)	556	41	137	18	⚠ 920	110
AGGREGATE SUB-BASE COURSE (C.Y.)	1113	81	274	36	1830	220
PRIME COAT (GALS.)	2495	36	616	80	4110	500

NOTES:

1. UNLESS OTHERWISE INDICATED, TEMPORARY TRAFFIC LANE WIDTHS SHALL BE 10'-0" MINIMUM EXCEPT FOR INSIDE LANES OF TWO WAY UNDIVIDED ROADWAYS WHICH SHALL BE 11'-0" MINIMUM.
2. ALTHOUGH NOT SHOWN ON THE PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL ADDITIONAL SIGNS, BARRICADES, BLINKERS AND OTHER SAFETY DEVICES AS REQUIRED TO INSURE THE SAFETY OF PEDESTRIANS AND VEHICLES.
3. TUBULAR CONES AND BARRICADE WARNING LIGHTS SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
4. REMOVE ALL TEMPORARY ROADWAYS IMMEDIATELY AFTER SUCH ROADWAYS ARE NO LONGER IN USE OR NO LONGER REQUIRED FOR FUTURE PHASES. REMOVAL SHALL BE DONE WITHOUT IMPEDENCE TO TRAFFIC. REMOVAL SHALL BE MEASURED AND PAID FOR AS ROADWAY EXCAVATION.
5. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, ALL SIGNS, BARRICADES, WARNING LIGHTS AND OTHER SAFETY CONTROL DEVICES USED FOR THE PURPOSE OF PHASE CONSTRUCTION SHALL BECOME THE PROPERTY OF THE STATE AFTER THE COMPLETION OF THE PROJECT. ALL ITEMS SHALL BE CLEANED AND DELIVERED TO THE STATE FIELD OFFICE AT THE CONTRACTOR'S EXPENSE.
6. HICKAM AND PEARL HARBOR BASE SECURITY MUST BE MAINTAINED DURING THE COURSE OF CONSTRUCTION. REMOVAL OF EXISTING FENCING SHALL BE MADE ONLY AFTER PERMANENT OR TEMPORARY SECURITY FENCING IS TOTALLY COMPLETED AND WHEN SO AUTHORIZED BY BASE SECURITY FORCES.
7. ALL PERMANENT SIGNS INSTALLED BUT NOT APPLICABLE TO THE DETOUR PLANS SHALL BE COVERED.
8. ALL TRAFFIC LANES SHALL BE OPEN DURING THE MORNING PEAK HOURS FROM 6:00 A.M. TO 8:30 A.M., DURING THE AFTERNOON PEAK HOURS FROM 3:00 P.M. TO 6:30 P.M., AND DURING OFF-WORK HOURS. UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER ONLY ONE LANE IN EACH DIRECTION MAY BE CLOSED AT ANYTIME FOR MULTI LANE SECTIONS, AND ONE LANE MAY BE CLOSED AT ANY TIME FOR TWO LANE/TWO WAY ROADS DURING NON-PEAK HOURS.
9. PLASTIC MATERIAL BARRICADES MAY BE INSTALLED IN LIEU OF STANDARD CLASS I AND II BARRICADES. ALL SUBSTITUTE BARRICADE MATERIALS AND CONSTRUCTION SHALL BE APPROVED BY THE ENGINEER.



CENTER DRIVE
TEMPORARY WIDENING
(PHASE I CONSTRUCTION)
SCALE: 1"=50'

LEGEND:

- PHASE I CONSTRUCTION (TO FINISH GRADE)
- TEMPORARY ROAD COMPLETED AND UTILIZED FOR TRAFFIC.
- EXIST. ROAD UTILIZED FOR TRAFFIC

NO.	REVISION	APPROVED BY	DATE
⚠3	REVISED QUANTITIES		4/2/78
⚠2	REVISED QUANTITIES		11/22/78
⚠1	REVISED QUANTITIES		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR

PHASING SUMMARY & MISC. DETAILS

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(99): 15
SCALE: AS NOTED DATE: AUG 4 1976

PAUL M. HIROTA REGISTERED PROFESSIONAL ENGINEER No. 1469 HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SHEET No. 12 OF 25 SHEETS

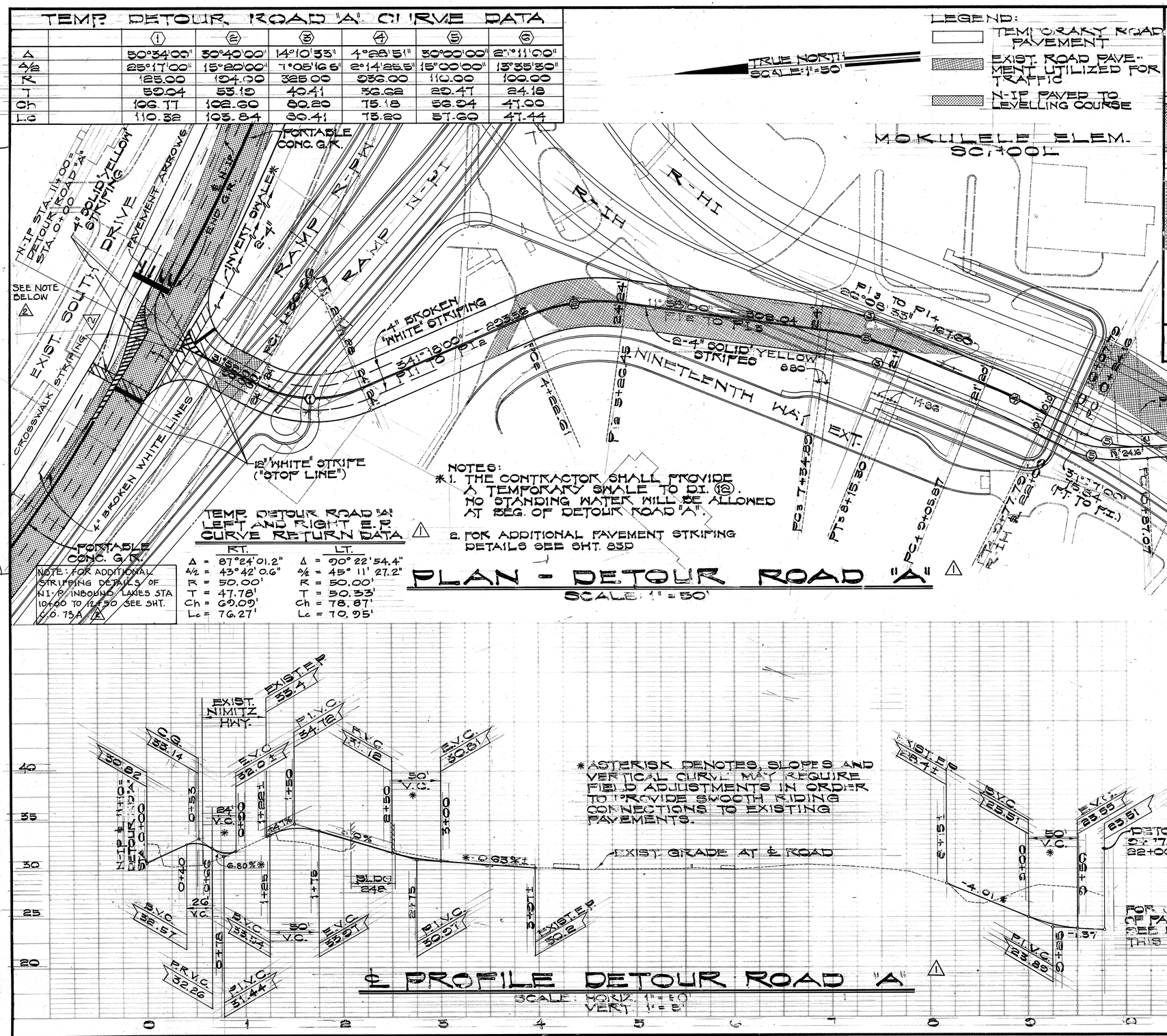
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
NO.	CHECKED BY	

PRINTED ON NO. 1000H CLEARPRINT

C.O. (80)

TEMP. DETOUR ROAD "A" CURVE DATA

		①	②	③	④	⑤	⑥
Δ		50°34'00"	30°40'00"	14°10'33"	4°28'15"	30°00'00"	2°11'00"
Δ/2		25°17'00"	15°20'00"	7°05'16.5"	2°14'25.5"	15°00'00"	1°35'30"
R		125.00	194.00	325.00	936.00	110.00	100.00
T		59.04	55.10	40.41	36.62	29.47	24.18
Ch		106.77	102.60	80.20	75.18	56.04	47.00
Lc		110.32	103.84	80.41	75.20	57.60	47.44



NOTES:
*1. THE CONTRACTOR SHALL PROVIDE A TEMPORARY SWALE TO DI. (12). NO STANDING WATER WILL BE ALLOWED AT BEG. OF DETOUR ROAD "A".
2. FOR ADDITIONAL PAVEMENT STRIPING DETAILS SEE SHT. 85D

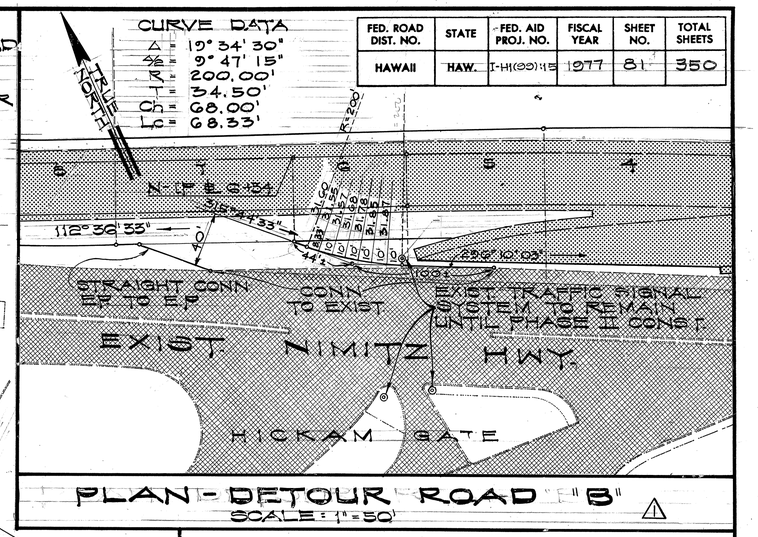
NOTE: FOR ADDITIONAL STRIPPING DETAILS OF N1-P INBOUND LANES STA 10+00 TO 12+30 SEE SHT. C.O. 73A (2)

TEMP. DETOUR ROAD "A" LEFT AND RIGHT E.R. CURVE RETURN DATA

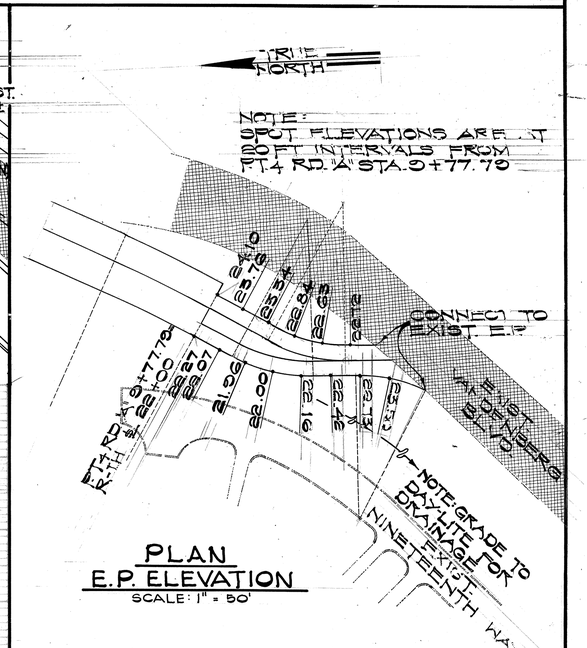
	RT.	LT.
Δ	87°24'01.2"	90°22'54.4"
Δ/2	43°42'0.6"	45°11'27.2"
R	50.00'	50.00'
T	47.78'	50.33'
Ch	69.09'	78.87'
Lc	76.27'	70.95'

PLAN - DETOUR ROAD "A" ⚠
SCALE: 1" = 50'

℄ PROFILE DETOUR ROAD "A" ⚠
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



PLAN - DETOUR ROAD "B" ⚠
SCALE: 1" = 50'



PLAN
E.P. ELEVATION
SCALE: 1" = 50'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI(22)15	1977	81	350

NO.	REVISION	APPROVED BY	DATE
⚠2	REVISED RD."A" INTERSECTION		3-21-78
⚠1	REVISED PLANS DETOUR RDS. "A" & "B" & RD. "A" PROFILE.		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NIMITZ SPUR

DETAIL PLANS TEMP. DETOUR RDS. "A" & "B"

INTERSTATE ROUTE H-1
PROJ. No. I-H1-1(22):15
SCALE: AS SHOWN DATE: AUG 4 1976

SHEET No. 13 OF 25 SHEETS

PAUL M. HIROTA REGISTERED PROFESSIONAL ENGINEER No. 1449 HAWAII, U.S.A.

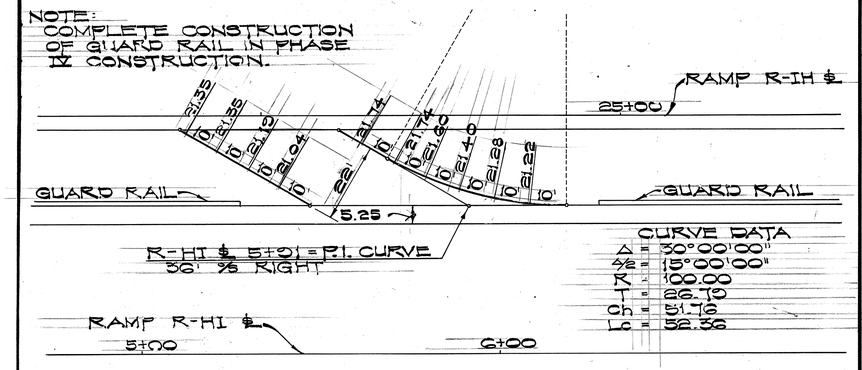
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

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

K&E CRYSTALENE Tracing Paper

C.O. (81)

NOTE:
COMPLETE CONSTRUCTION OF GUARD RAIL IN PHASE IV CONSTRUCTION.

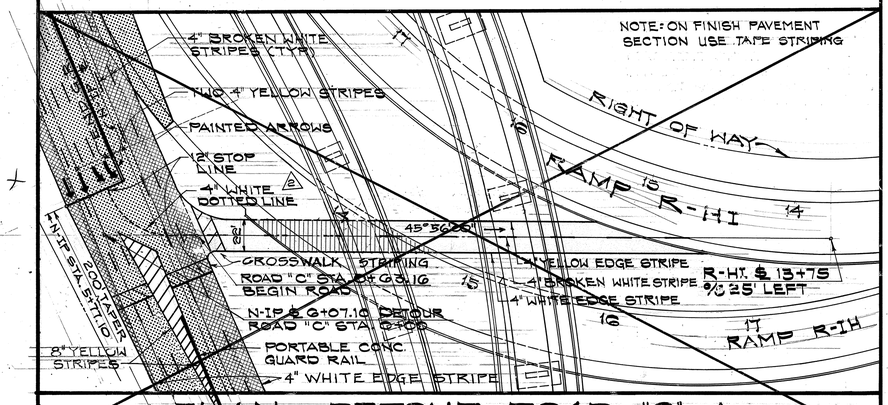


PLAN - DETOUR ROAD "D"

SCALE: 1"=20'

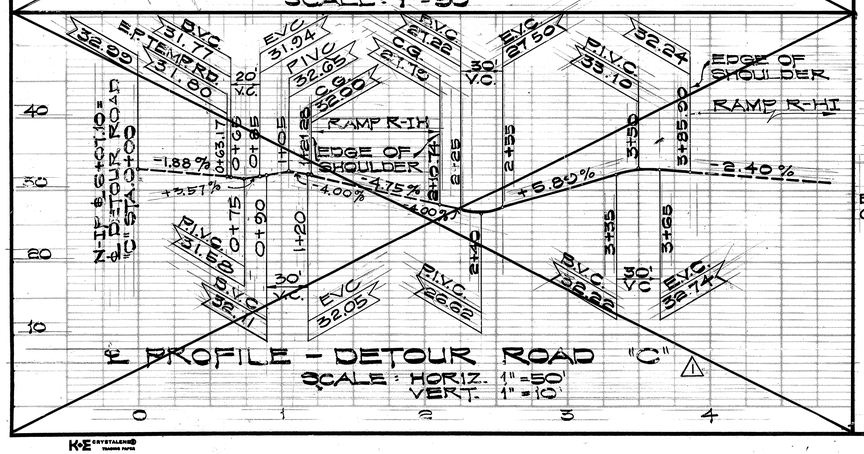
LEGEND:

- TEMPORARY ROAD PAVEMENT
- TEMPORARY ROAD COMPLETED & UTILIZED FOR TRAFFIC
- ROADWAY PAVED TO A.C. LEVELING COURSE
- ROADWAY PAVED TO FINISH GRADE



PLAN - DETOUR ROAD "C" ⚠

SCALE: 1"=50'



℄ PROFILE - DETOUR ROAD "C" ⚠

SCALE: HORIZ. 1"=50'
VERT. 1"=10'

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

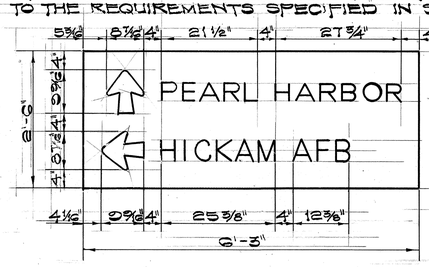
GENERAL NOTES

1. SIGN MESSAGE SHALL BE LETTERED IN UPPERCASE ACCORDING TO STANDARD ALPHABETS FOR HIGHWAY SIGNS, BUREAU OF PUBLIC ROADS, 1966, AND LOWER CASE ACCORDING TO STANDARD LOWER-CASE ALPHABETS FOR HIGHWAY SIGNS, BUREAU OF PUBLIC ROADS, 1962. USE SERIES "E" MODIFIED LETTERS UNLESS OTHERWISE NOTED.
2. COLOR FOR LETTERS, ARROWS AND BORDERS SHALL BE WHITE ON GREEN BACKGROUND.
3. BORDERS SHALL CONFORM TO THE STANDARD BORDER DETAIL FOR GUIDE SIGNS.
4. SIGN PANEL SHALL BE SHEET ALUMINUM, WITH A MINIMUM THICKNESS OF 0.040".
5. PAINT SHALL BE ENAMEL AND CONFORM TO THE REQUIREMENTS SPECIFIED IN SECTION 712.20(6) OF THE STANDARD SPECIFICATIONS.

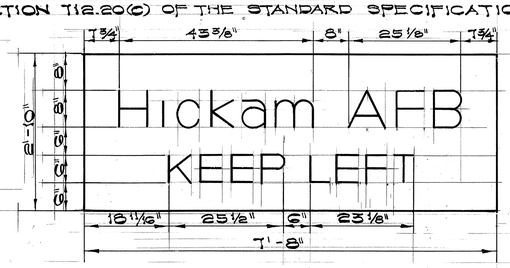
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(22)15	1977	82	350



SIGN D-6
R-IH ℄ 27+00
SCALE: ¾"=1'-0"

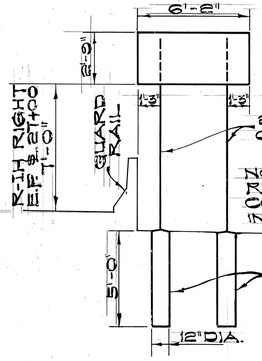


SIGN D-7
N-IP ℄ 10+50 (PHASE II)
N-IP ℄ 5+50 (PHASE III)
SCALE: ¾"=1'-0"

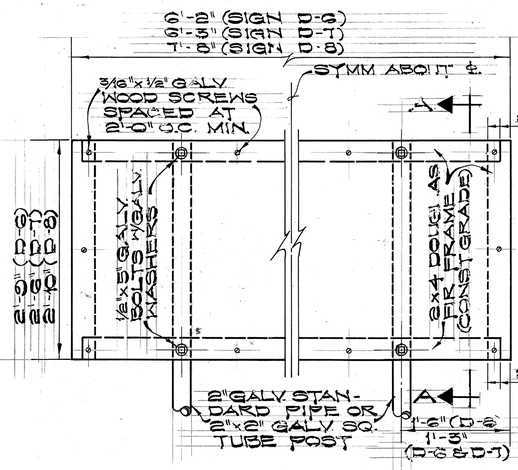


SIGN D-8
N-IP ℄ 1+00
SCALE: ¾"=1'-0"

SIGN PANEL LAYOUT

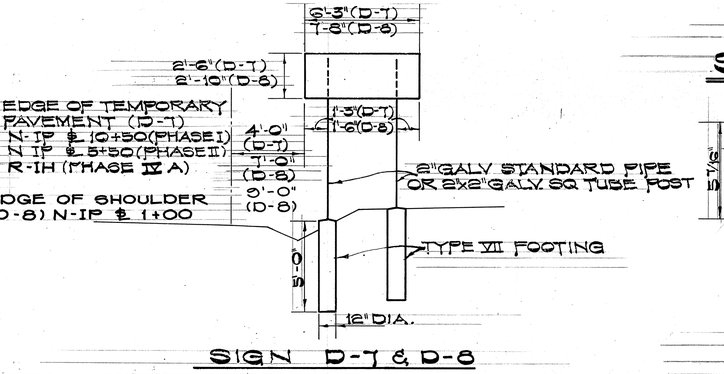


SIGN D-6
SCALE: ¼"=1'-0"

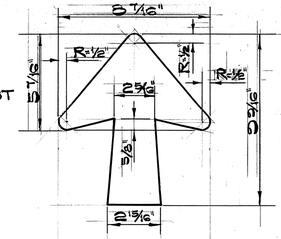


FRONT ELEVATION SECTION "A-A"

SIGN PANEL FRAME DETAIL



SIGN D-7 & D-8
SCALE: ¼"=1'-0"



ARROW DETAIL
SCALE 3"=1'-0"

SIGN FRAME LAYOUT

PAUL M. HIROTA
REGISTERED PROFESSIONAL ENGINEER
No. 1449
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

NO	REVISION	APPROVED BY	DATE
⚠	REVISED STRIPING PLAN "C"		7/6/76
⚠	REVISED PLAN & PROFILE DETOUR ROAD "C"		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NIMITZ SPUR

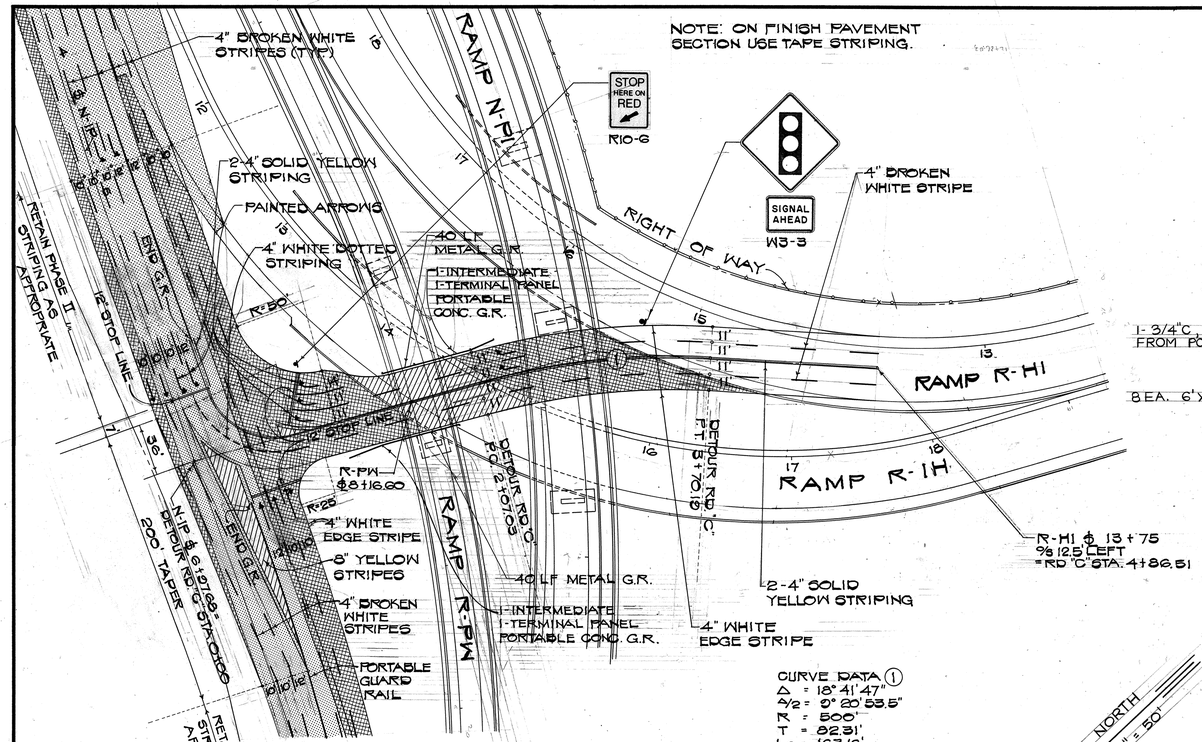
DETAIL PLANS TEMP. DETOUR RDS. "C" & "D" MISC. SIGN DETAILS

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(99)15
SCALE: AS SHOWN DATE: AUG 4 1976

SHEET No. 14 OF 25 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(22):15	1977	82A	

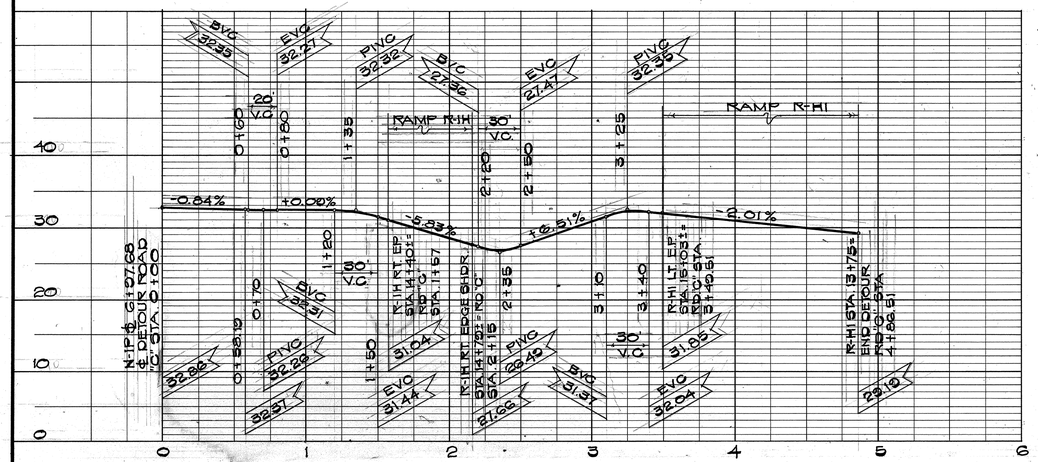
NOTE: ON FINISH PAVEMENT SECTION USE TAPE STRIPING.



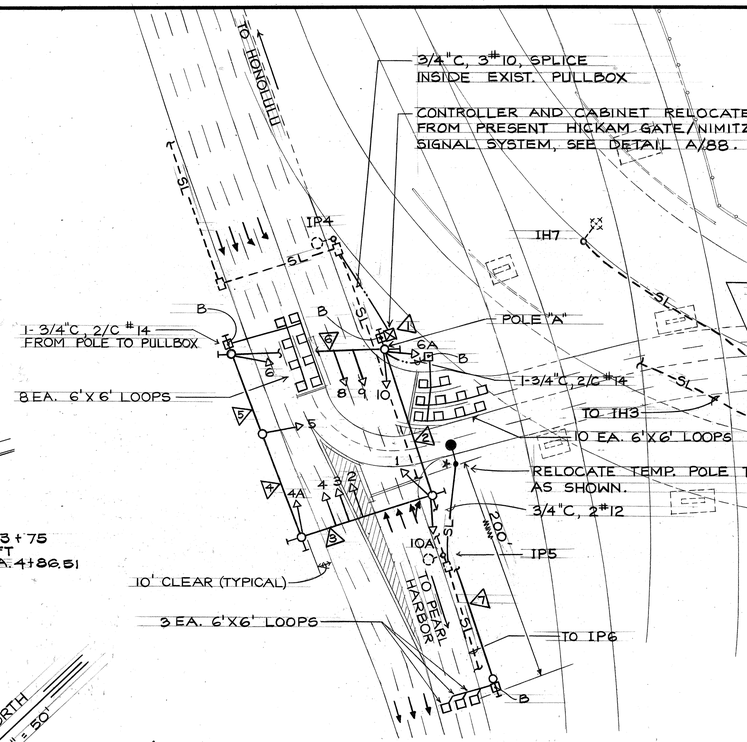
CURVE DATA (1)
Δ = 18°41'47"
Δ/2 = 9°20'53.5"
R = 500'
T = 82.31'
Lc = 163.16'

TRUE NORTH
SCALE: 1" = 50'

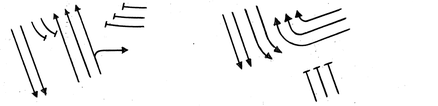
PLAN - DETOUR ROAD "C"
SCALE: 1" = 50'



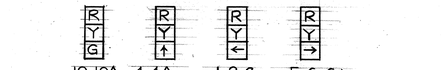
℄ PROFILE - DETOUR ROAD "C"
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



⚠ TEMPORARY TRAFFIC SIGNAL SYSTEM "B"
(CONSTRUCTED UNDER CONSTRUCTION PHASE II FOR OPERATION UNDER CONSTRUCTION PHASE III)
COORDINATE WITH PHASE CONSTRUCTION PLAN.



PHASE DIAGRAM



⚠ SIGNAL INDICATIONS

1. TRAFFIC SIGNAL HEADS 2 & 3 SHALL BE PROGRAMMED VISIBILITY HEADS. (TO BE FURNISHED BY THE STATE.)
2. ALL VEHICULAR SIGNAL HEADS SHALL BE 12 INCH HEADS.

⚠ TRAFFIC SIGNAL SYSTEM "B"
CABLE SCHEDULE

CABLE RUN: ▷	DESCRIPTION
1	1-2/C #10
2	1-21/C #14 1-2/C #14
3, 4, 5	1-21/C #14
6	1-21/C #14 2-2/C #14
7	1-2/C #14

⚠ TRAFFIC SIGNAL SYSTEM "B"
RIGHT-OF-WAY INDICATIONS

SIGNAL	PHASE 1		PHASE 2		FLASH (R-Y)
	R/W	CL	R/W	CL	
8, 9	↑	Y	R	R	Y
4, 4A	↑	↑	↑	↑	Y
1, 2, 3	R	R	←	Y	R
5	R	R	→	Y	R
6, 6A	R	R	→	Y	R
10, 10A	G	Y	R	R	Y

NO.	REVISION	DATE
⚠	REVISED TEMP. TRAFFIC SIGNAL SYSTEM "B". RELOCATED TEMP. ST. LT. POLES TP10 & TP11.	11/24/78

TAKETO KAWABATA
REGISTERED PROFESSIONAL ENGINEER
No. 750
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Taketo Kawabata

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NIMITZ SPUR

DETAIL PLANS - DETOUR RD. "C" PHASE IIA

INTERSTATE ROUTE H-1
PROJECT I-H1-1(22):15

SCALE: AS NOTED DATE: SEPT. 19, 1978

SHEET No. 1 OF 1 SHEETS

C.O. 82A

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

PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99):15	1977	82A	

SIGN D-9

LEGEND

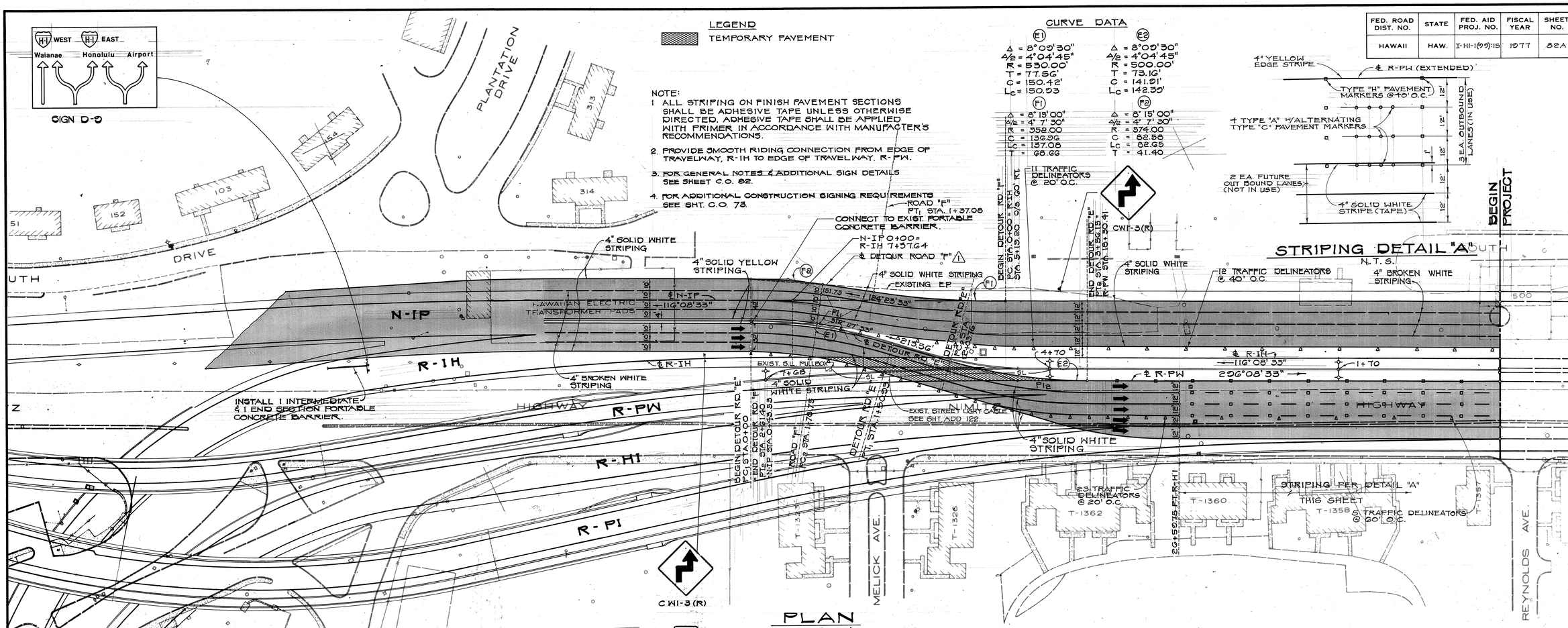
TEMPORARY PAVEMENT

NOTE:
1. ALL STRIPING ON FINISH PAVEMENT SECTIONS SHALL BE ADHESIVE TAPE UNLESS OTHERWISE DIRECTED. ADHESIVE TAPE SHALL BE APPLIED WITH PRIMER IN ACCORDANCE WITH MANUFACTER'S RECOMMENDATIONS.
2. PROVIDE SMOOTH RIDING CONNECTION FROM EDGE OF TRAVELWAY, R-1H TO EDGE OF TRAVELWAY, R-PW.
3. FOR GENERAL NOTES & ADDITIONAL SIGN DETAILS SEE SHEET C.O. 82.
4. FOR ADDITIONAL CONSTRUCTION SIGNING REQUIREMENTS SEE SHT. C.O. 73.

CURVE DATA

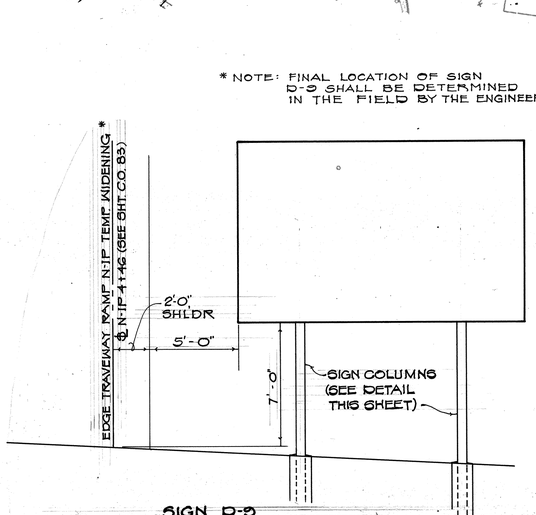
(E1)	(E2)
Δ = 8°00'30"	Δ = 8°00'30"
Δ/2 = 4°04'45"	Δ/2 = 4°04'45"
R = 530.00'	R = 500.00'
T = 77.56'	T = 73.16'
C = 150.42'	C = 141.91'
Lc = 150.93	Lc = 142.35'

(F1)	(F2)
Δ = 8°15'00"	Δ = 8°15'00"
Δ/2 = 4°7'30"	Δ/2 = 4°7'30"
R = 398.00	R = 374.00
C = 136.96	C = 82.58
Lc = 137.08	Lc = 82.65
T = 68.66	T = 41.40

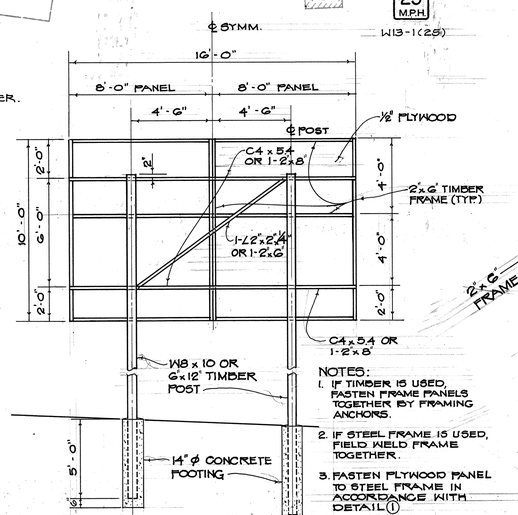


PLAN
SCALE: 1" = 50'

STRIPING DETAIL "A"
N.T.S.

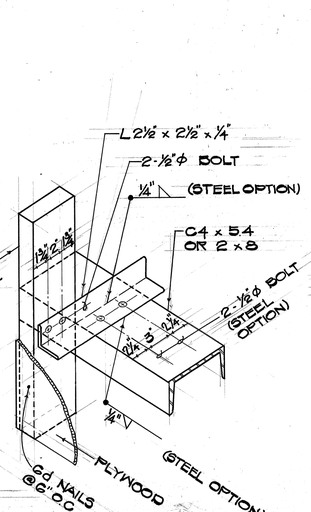


SIGN D-9
SIGN FRAME LAYOUT
SCALE: ¼" = 1'-0"

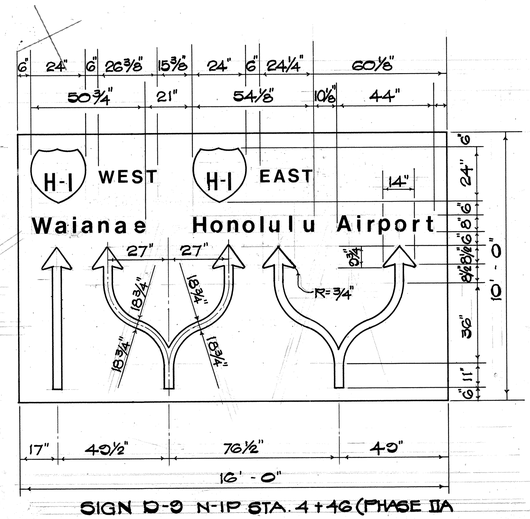


NOTES:
1. IF TIMBER IS USED, FASTEN FRAME PANELS TOGETHER BY FRAMING ANCHORS.
2. IF STEEL FRAME IS USED, FIELD WELD FRAME TOGETHER.
3. FASTEN PLYWOOD PANEL TO STEEL FRAME IN ACCORDANCE WITH DETAIL (1)
4. ALL STEEL FRAME SHALL BE PAINTED.

REAR ELEVATION
SCALE: ¼" = 1'-0"



DETAIL (1)
N.T.S.



SIGN D-9 N-1P STA. 4+46 (PHASE IIA
PANEL LAYOUT
SCALE: ⅜" = 1'-0"

SHEN-CHIEN CHIU
REGISTERED PROFESSIONAL ENGINEER
No. 3641
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

PAUL M. HIROTA
REGISTERED PROFESSIONAL ENGINEER
No. 1449
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

1	ADDED DETOUR ROAD "F"	1/9/78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN-DETOUR RD. "E" PHASE II A

INTERSTATE ROUTE H-1
PROJECT I-H1-1(99):15

SCALE: AS NOTED DATE: SEPT. 12, 1978

SHEET No. 1 OF 1 SHEETS

C.O. (82) B

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

*PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(00)15	1977	83	350

NOTE:
SPOT ELEVATIONS ARE AT 25 FT. INTERVALS FROM N-IP ℄ 13+25.

TEMPORARY PAVEMENT LT. E.P. - CURVE DATA

③		②		①	
Δ =	9°06'00"	Δ =	2°59'00"	Δ =	10°40'00"
Δ/2 =	4°33'00"	Δ/2 =	1°29'30"	Δ/2 =	5°20'00"
R =	1636.00'	R =	3774.91'	R =	1552.05'
T =	130.19'	T =	98.30'	T =	144.80'
C =	259.56'	C =	196.53'	C =	288.53'
L =	259.84'	L =	196.56'	L =	288.94'

TEMP. PAVEMENT RT. E.P. ②
CURVE DATA

④		⑤	
Δ =	3°32'00"	Δ =	11°35'26"
Δ/2 =	1°46'00"	Δ/2 =	5°47'43"
R =	4036.00	R =	1478.05'
T =	124.49'	T =	150.01'
Ch =	248.85'	Ch =	298.49'
Lc =	248.89'	Lc =	299.00'

③ TEMP. PAVEMENT RT. E.P.
CURVE DATA

⑥		⑦	
Δ =	9°33'45"	Δ =	9°17'18"
Δ/2 =	4°46'52.5"	Δ/2 =	4°38'39"
R =	400.00'	R =	240.00'
T =	33.46'	T =	19.50'
Ch =	66.68'	Ch =	38.86'
Lc =	66.76'	Lc =	38.91'

LEGEND:
- TEMPORARY ROAD PAVEMENT
- N-IP PAVED TO LEVELLING COURSE

PROVIDE SMOOTH RIDING CONN. TO EXIST. PAVEMENT

CONN TO EXIST N-IP @ 14+15 ELEV. = 28.51

RAMP N-P1

RAMP R-PW

EXIST PAVEMENT

TEMPORARY WIDENING LT. E.P. PCC 12+32.66 N-IP ℄ 13+25

TEMPORARY WIDENING RT. E.P. PCC N-IP ℄ 11+67.49 0/S 28' RT.

N-IP ℄ 11+10 ℄ DETOUR RD "A"

N-IP ℄ 10+40.85 0/S 42.67' LT.

TEMPORARY WIDENING LT. E.P. PCC

TEMPORARY WIDENING RT. E.P. PRC N-IP STA. 10+60 0/S 32.85' RT.

TRUE NORTH SCALE 1" = 50'

N-IP LT. E.P. PC 7+58.17 0/S 58.00 LT.

Exist. NAVY Pole NH-4D

N-IP & 5+16.21 TEMPORARY WIDENING RT. SHOULDER CONNECTION

N-IP ℄ 5+55.11 E.P.R.T.

N-IP ℄ 5+65.61

HE 28 POLE W/GUY

NAVY STUB POLE

HE 30 POLE

HE 31 POLE

DRIVE

NIMITZ

N-IP ℄

116° 08' 33"

112° 36' 33"

126° 15' 33"

123° 16' 33"

97.85'

N-IP RT. E.P. PC 2+10.17

R-HI

R-HI ℄ 10+04.45

N-IP RT. E.P. PT.

R-HI ℄ 10+15

200' TAPER

MATCH LINE N-IP STA. 1+20

BEGIN TEMP. PAVEMENT R-HI STA. 6+12.64

N-IP ℄ STA. 0+75

MATCH LINE N-IP STA. 1+20

BEGIN N-IP STA. 0+00
R-HI STA. 7+57.64

RAMP N-IP TEMPORARY WIDENING

TEMP PAVEMENT R.T.E.P.
CURVE DATA
Δ = 9°05'00"
Δ/2 = 4°32'30"
R = 200.00'
T = 15.99'
C = 31.67'
L = 31.71'

END PROJ. I-HI-1(20)15

R-HI ℄ 0+34.15

R-HI ℄ 1+31+00

K-HI ℄ 2+50 CHANGE IN HORZ. ALIGNMENT

K-HI ℄ 4+75.00 END ROAD WIDENING TO EXIST. E.P.

NINETEENTH WAY

R-HI

R HI

K-HI ℄ 2+50 EDGE OF PAVEMENT

12' MIN.

EXIST VAN DENBERG EDGE OF PAVEMENT BLVD.

226° 51' 05"

TRUE NORTH SCALE 1" = 50'

LEGEND:
- TEMPORARY ROAD PAV'T
- EXIST. ROAD PAVEMENT UTILIZED FOR TRAFFIC

VANDENBERG BLVD. TEMPORARY WIDENING

NO.	REVISION	APPROVED BY	DATE
⚠	ADDED UTILITY POLES & DATA, REVISED RT. E.P. TIES		3/8/78
⚠	REVISED RT. E.P. TIES		1/30/78
⚠	REVISED N-IP TEMPORARY WIDENING PLAN		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
TEMP RAMP N-IP & VANDENBERG BLVD. WIDENING DETAIL PLANS
INTERSTATE ROUTE H-1
PROJ. NO. H-1-1(00)15
SCALE: 1" = 50' DATE: AUG 4 1976

PAUL M. HIROTA REGISTERED PROFESSIONAL ENGINEER No. 1449 HAWAII, U.S.A.

Paul M. Hirota

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

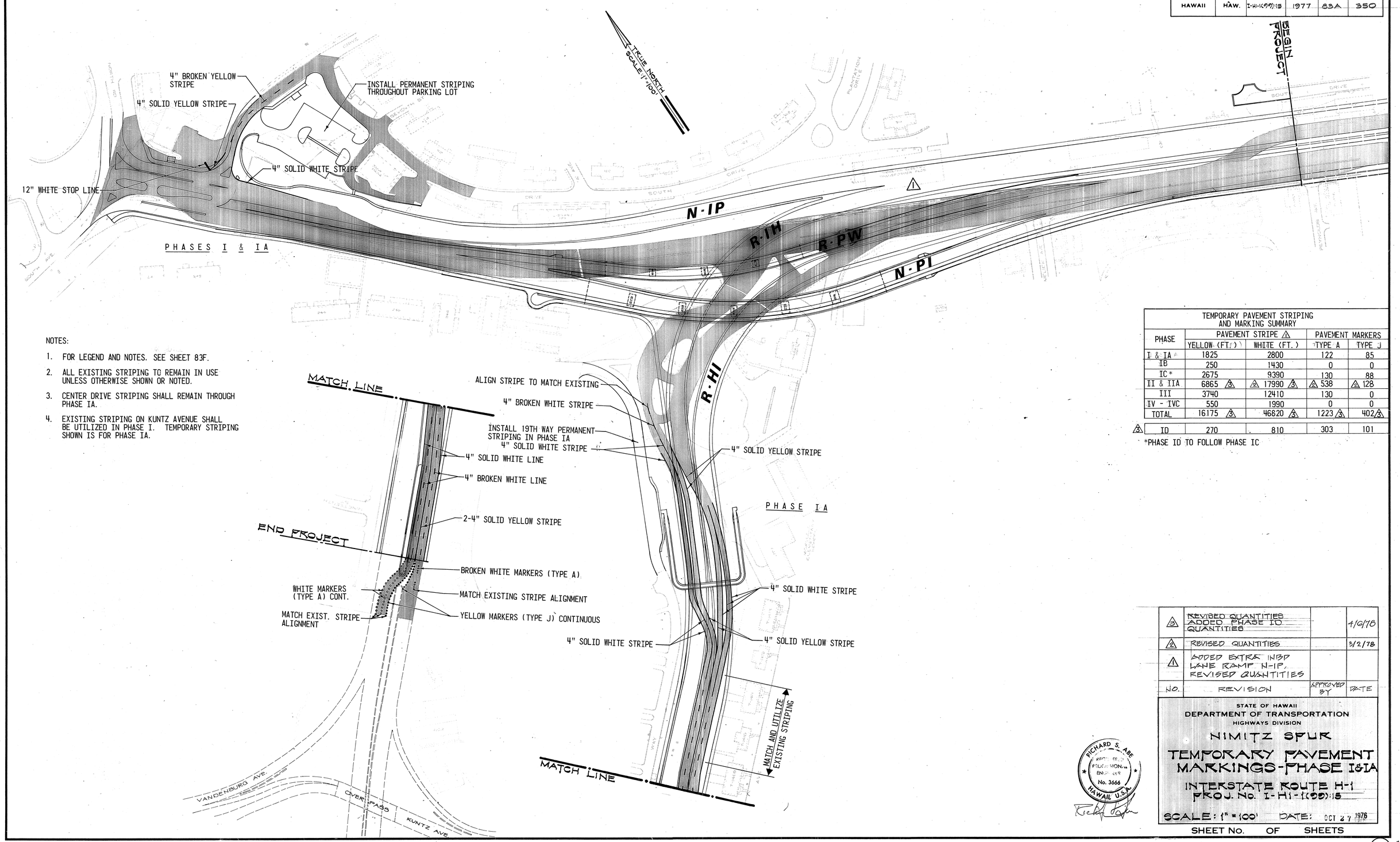
SHEET No. 15 OF 25 SHEETS

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

PRINTED ON NO. 1000H CLEARPRINT

C.O. 83

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	83A	350



NOTES:

1. FOR LEGEND AND NOTES. SEE SHEET 83F.
2. ALL EXISTING STRIPING TO REMAIN IN USE UNLESS OTHERWISE SHOWN OR NOTED.
3. CENTER DRIVE STRIPING SHALL REMAIN THROUGH PHASE IA.
4. EXISTING STRIPING ON KUNTZ AVENUE SHALL BE UTILIZED IN PHASE I. TEMPORARY STRIPING SHOWN IS FOR PHASE IA.

TEMPORARY PAVEMENT STRIPING AND MARKING SUMMARY

PHASE	PAVEMENT STRIPE △ YELLOW (FT.)	PAVEMENT STRIPE △ WHITE (FT.)	PAVEMENT MARKERS TYPE A	PAVEMENT MARKERS TYPE J
I & IA	1825	2800	122	85
IB	250	1430	0	0
IC*	2675	9390	130	88
II & IIA	6865 △3	△ 17990 △3	△ 538	△ 128
III	3740	12410	130	0
IV - IVC	550	1990	0	0
TOTAL	16175 △3	46820 △3	1223 △3	402 △3
△3 ID	270	810	303	101

*PHASE ID TO FOLLOW PHASE IC

NO.	REVISION	APPROVED BY	DATE
△3	REVISED QUANTITIES ADDED PHASE ID QUANTITIES		4/6/78
△2	REVISED QUANTITIES		3/2/78
△1	ADDED EXTRA INBD LANE RAMP N-IP, REVISED QUANTITIES		

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

ORIGINAL PLAN
NOTE BOOK
NO.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
TEMPORARY PAVEMENT MARKINGS-PHASE I&IA

INTERSTATE ROUTE H-1
PROJ. No. I-HI-1(99)15

SCALE: 1" = 100' DATE: OCT 27 1976

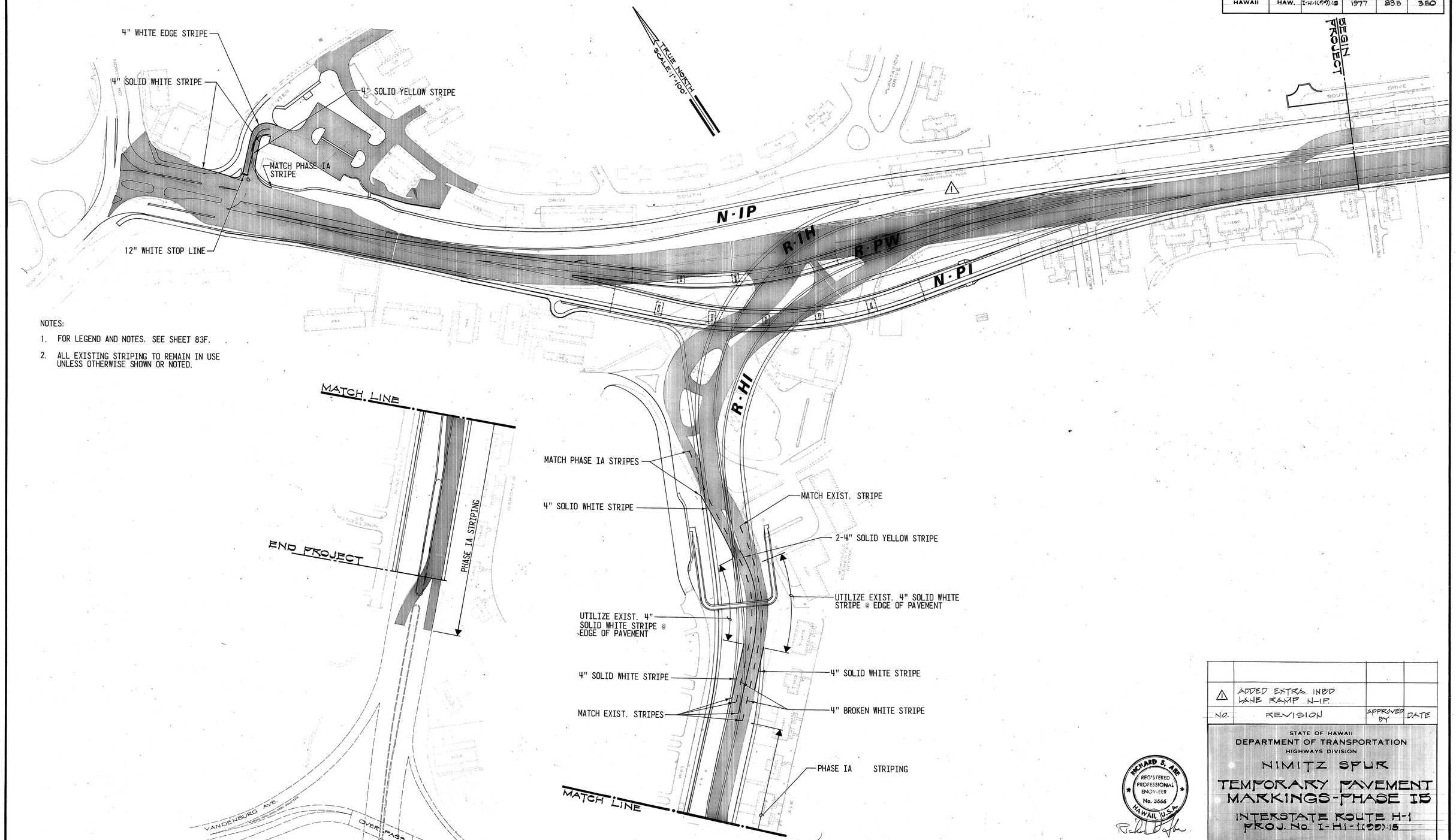
RICHARD S. ABE
REGISTERED PROFESSIONAL ENGINEER
No. 3666
HAWAII, U.S.A.

SHEET No. OF SHEETS

PRINTED ON NO. 1000H CLEARPRINT

C.O. 83 △

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(09)15	1977	83B	350



NOTES:

1. FOR LEGEND AND NOTES. SEE SHEET 83F.
2. ALL EXISTING STRIPING TO REMAIN IN USE UNLESS OTHERWISE SHOWN OR NOTED.

ORIGINAL PLANS
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE
NOTE BOOK
NO.

NO.	REVISION	APPROVED BY	DATE
1	ADDED EXTRA INBD LANE RAMP N-IP.		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
TEMPORARY PAVEMENT MARKINGS-PHASE 1B

INTERSTATE ROUTE H-1
PROJ. NO. I-H1-1(09)15

SCALE: 1" = 100' DATE: OCT 27 1976

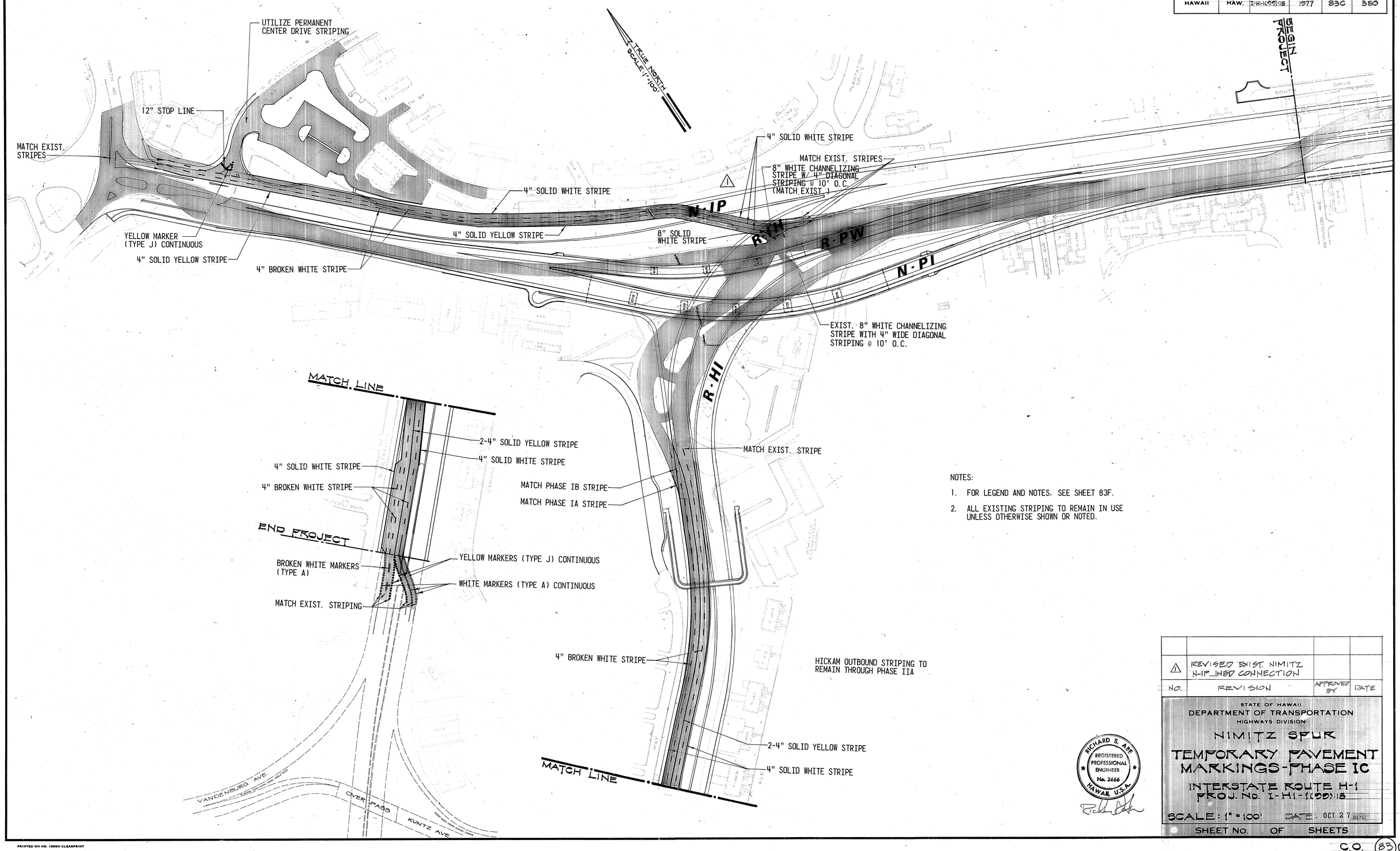
SHEET NO. OF SHEETS

RICHARD S. ABE
REGISTERED PROFESSIONAL ENGINEER
No. 3666
HAWAII, U.S.A.

PRINTED ON NO. 1000H CLEARPRINT

C.O. 83B

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(09)15	1977	83C	350



NOTES:

1. FOR LEGEND AND NOTES. SEE SHEET 83F.
2. ALL EXISTING STRIPING TO REMAIN IN USE UNLESS OTHERWISE SHOWN OR NOTED.

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

NO.	REVISION	APPROVED BY	DATE
⚠	REVISED EXIST. NIMITZ N-IP_INBD CONNECTION		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
TEMPORARY PAVEMENT MARKINGS-PHASE IC

INTERSTATE ROUTE H-1
PROJ. No. I-HI-1(09)15

SCALE: 1" = 100' DATE: OCT 27 1976

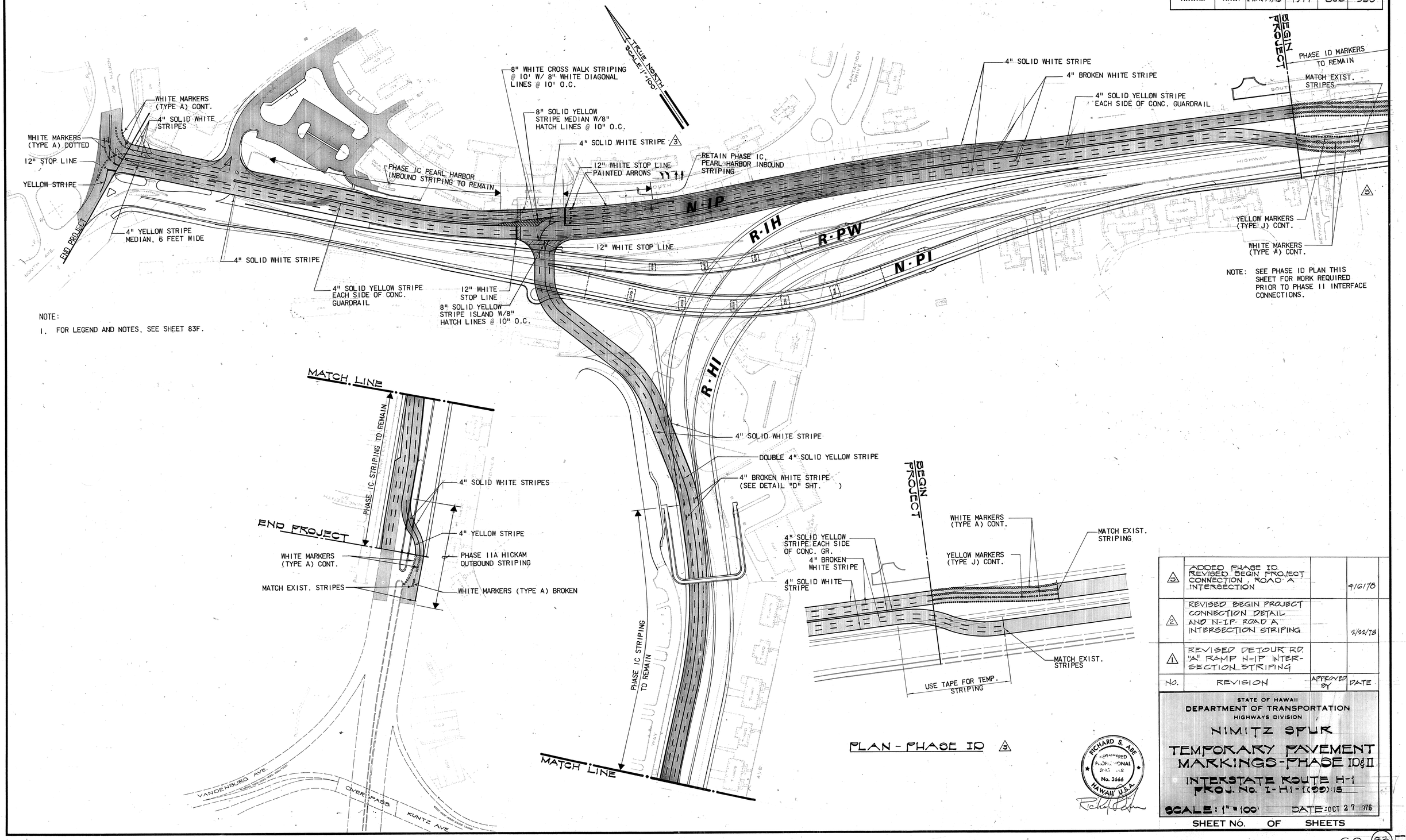
SHEET No. OF SHEETS

RICHARD S. ABE
REGISTERED PROFESSIONAL ENGINEER
No. 3666
HAWAII, U.S.A.

C.O. 83C

PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(09)15	1977	83D	350



NOTE:

1. FOR LEGEND AND NOTES, SEE SHEET 83F.

PLAN - PHASE ID 3

NO.	REVISION	APPROVED BY	DATE
3	ADDED PHASE ID REVISED BEGIN PROJECT CONNECTION, ROAD A INTERSECTION		9/6/78
2	REVISED BEGIN PROJECT CONNECTION DETAIL AND N-1P- ROAD A INTERSECTION STRIPING		2/22/78
1	REVISED DETOUR RD. "A" RAMP N-1P INTERSECTION STRIPING		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
TEMPORARY PAVEMENT MARKINGS-PHASE IC & II

INTERSTATE ROUTE H-1
PROJ. No. I-HI-1(09)15

SCALE: 1" = 100' DATE: OCT 27 '76

RICHARD S. ABE
REGISTERED PROFESSIONAL ENGINEER
No. 3666
HAWAII, U.S.A.

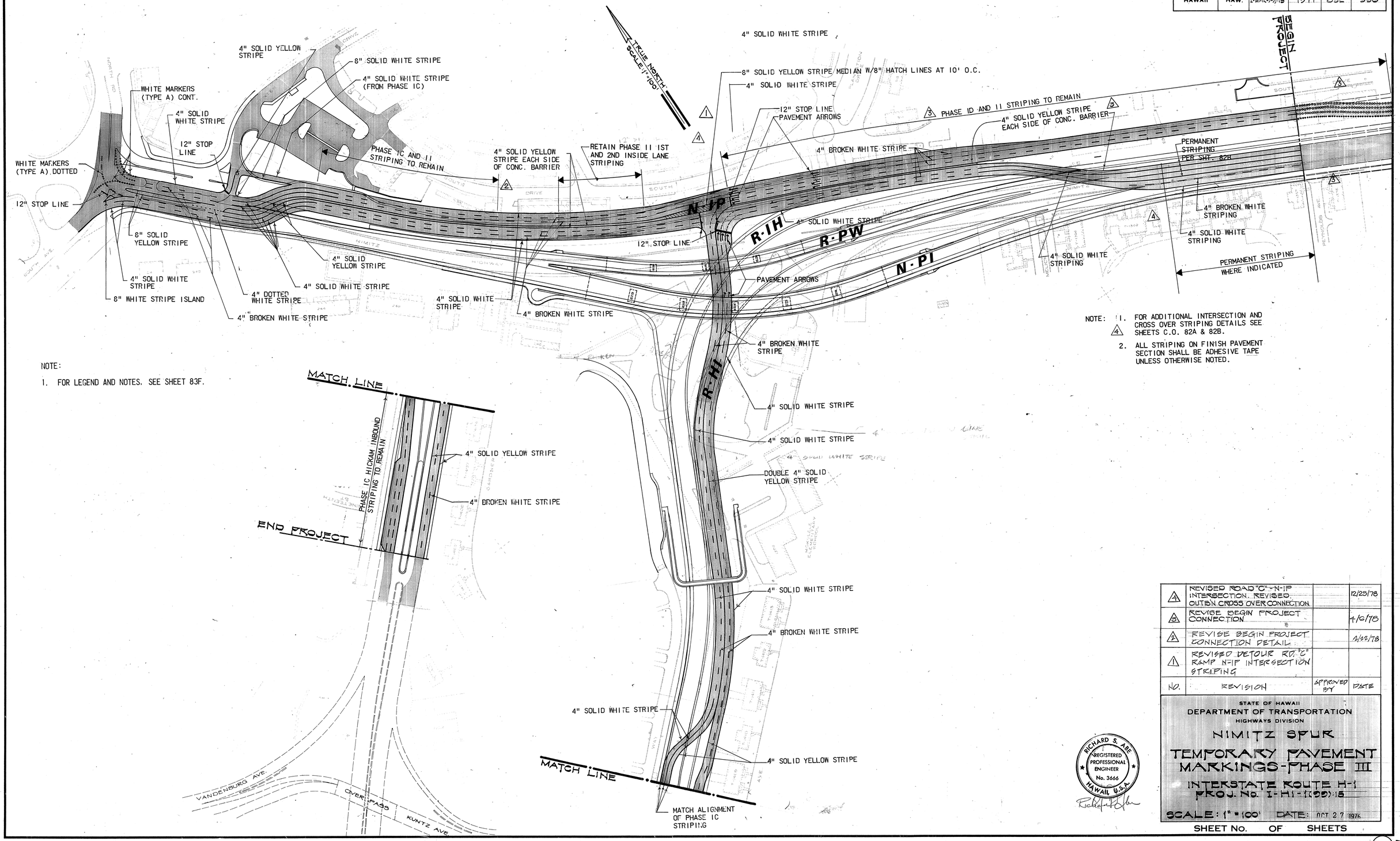
SHEET NO. OF SHEETS

C.O. 83

ORIGINAL / FINAL
NOTE BOOK
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE
No.

PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(09)15	1977	83E	350



NOTE:

1. FOR LEGEND AND NOTES. SEE SHEET 83F.

NOTE:

1. FOR ADDITIONAL INTERSECTION AND CROSS OVER STRIPING DETAILS SEE SHEETS C.O. 82A & 82B.
2. ALL STRIPING ON FINISH PAVEMENT SECTION SHALL BE ADHESIVE TAPE UNLESS OTHERWISE NOTED.

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

NO.	REVISION	APPROVED BY	DATE
4	REVISED ROAD "C"-N-IP INTERSECTION. REVISED OUTBN CROSS OVER CONNECTION		12/25/78
3	REVISE BEGIN PROJECT CONNECTION		4/6/78
2	REVISE BEGIN PROJECT CONNECTION DETAIL		2/22/78
1	REVISED DETOUR RD. "C" RAMP N-IP INTERSECTION STRIPING		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
TEMPORARY PAVEMENT MARKINGS-PHASE III

INTERSTATE ROUTE H-1
PROJ. No. I-HI-1(09)15

SCALE: 1" = 100' DATE: OCT 27 1976

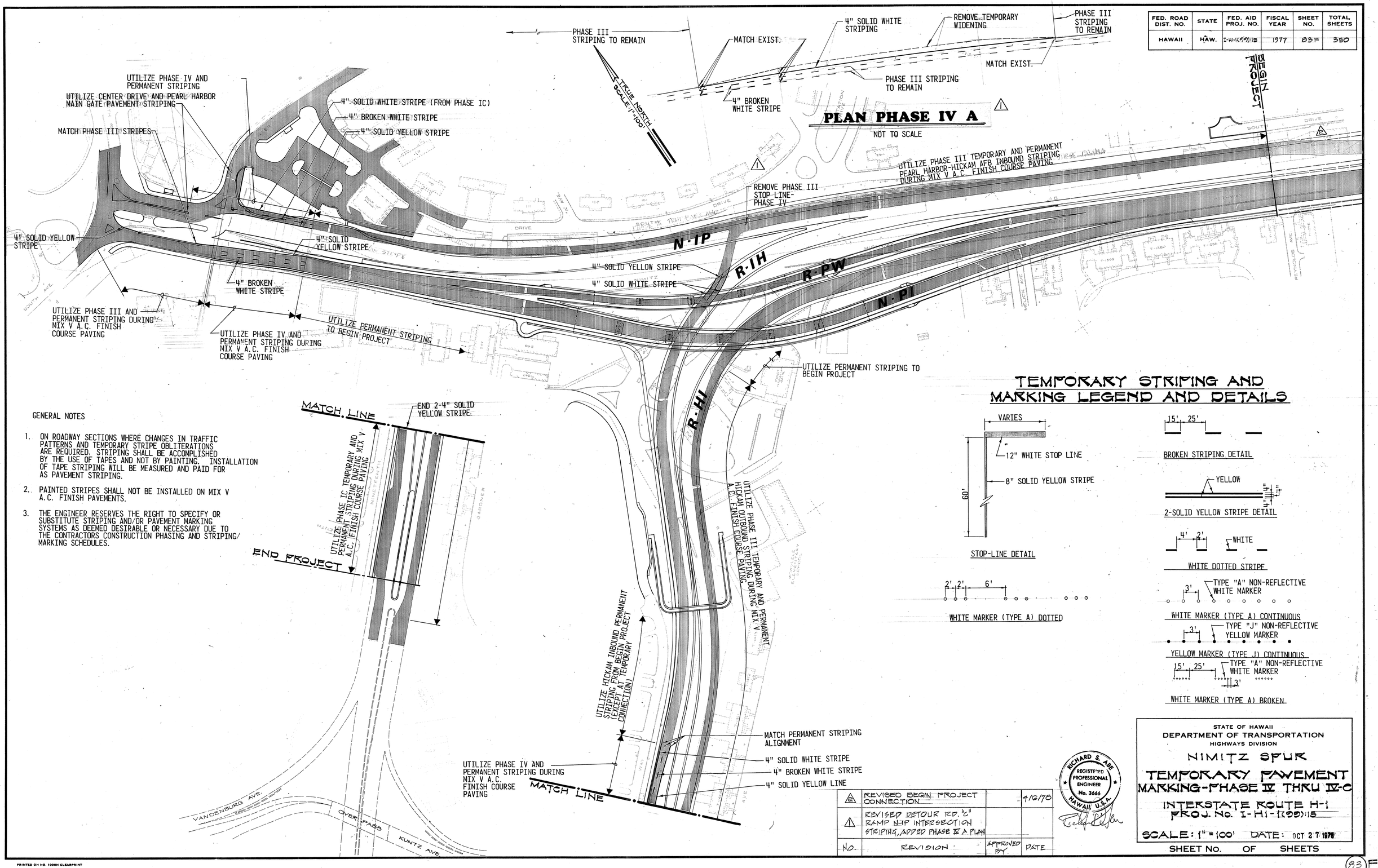
RICHARD S. ABE
REGISTERED PROFESSIONAL ENGINEER
No. 3666
HAWAII, U.S.A.

SHEET No. OF SHEETS

C.O. 83E

PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	83F	350



GENERAL NOTES

1. ON ROADWAY SECTIONS WHERE CHANGES IN TRAFFIC PATTERNS AND TEMPORARY STRIPE OBLITERATIONS ARE REQUIRED, STRIPING SHALL BE ACCOMPLISHED BY THE USE OF TAPES AND NOT BY PAINTING. INSTALLATION OF TAPE STRIPING WILL BE MEASURED AND PAID FOR AS PAVEMENT STRIPING.
2. PAINTED STRIPES SHALL NOT BE INSTALLED ON MIX V A.C. FINISH PAVEMENTS.
3. THE ENGINEER RESERVES THE RIGHT TO SPECIFY OR SUBSTITUTE STRIPING AND/OR PAVEMENT MARKING SYSTEMS AS DEEMED DESIRABLE OR NECESSARY DUE TO THE CONTRACTORS CONSTRUCTION PHASING AND STRIPING/MARKING SCHEDULES.

TEMPORARY STRIPING AND MARKING LEGEND AND DETAILS

STOP-LINE DETAIL

WHITE MARKER (TYPE A) DOTTED

BROKEN STRIPING DETAIL

2-SOLID YELLOW STRIPE DETAIL

WHITE DOTTED STRIPE

WHITE MARKER (TYPE A) CONTINUOUS

YELLOW MARKER (TYPE J) CONTINUOUS

WHITE MARKER (TYPE A) BROKEN

NO.	REVISION	APPROVED BY	DATE
2	REVISED BEGIN PROJECT CONNECTION		4/6/78
1	REVISED DETOUR RD. "C" RAMP N-1P INTERSECTION STRIPING, ADDED PHASE IV A PLAN		

RICHARD S. ABE REGISTERED PROFESSIONAL ENGINEER No. 3666 HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR

TEMPORARY PAVEMENT MARKING-PHASE IV THRU IV-C

INTERSTATE ROUTE H-1
PROJ. No. I-H1-1(99)15

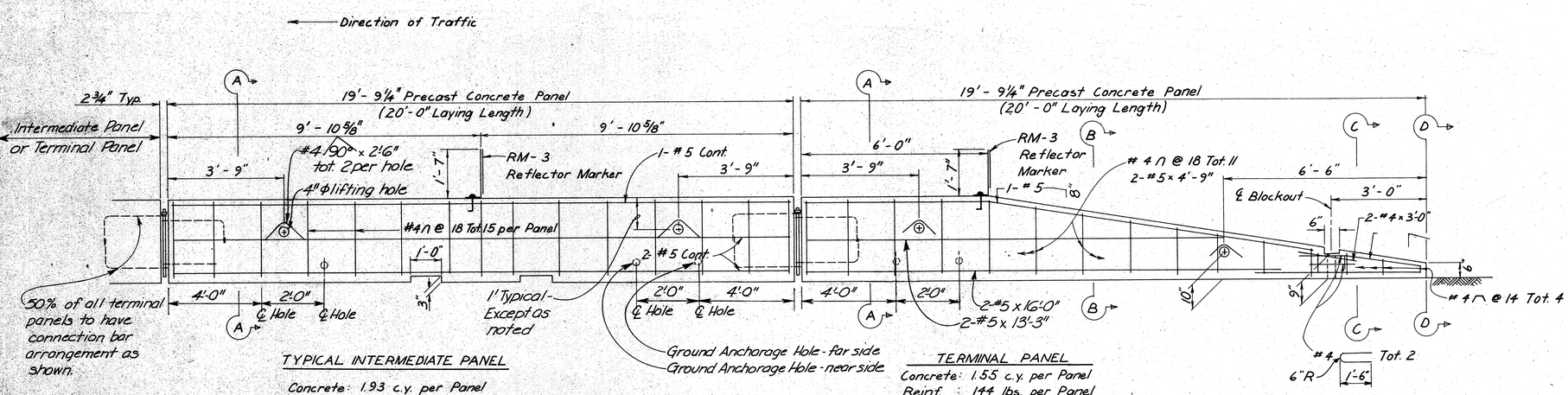
SCALE: 1" = 100' DATE: OCT 27 1978

SHEET No. OF SHEETS

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK | NO.

PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	84	350

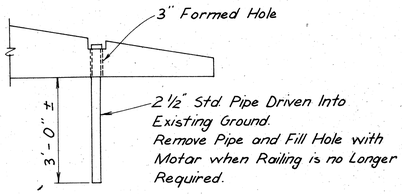


TYPICAL INTERMEDIATE PANEL

Concrete: 1.93 c.y. per Panel
Reinf. : 169 lbs. per Panel
Weight : 3.9 tons per Panel

TERMINAL PANEL

Concrete: 1.55 c.y. per Panel
Reinf. : 144 lbs. per Panel
Weight : 3.1 tons per Panel

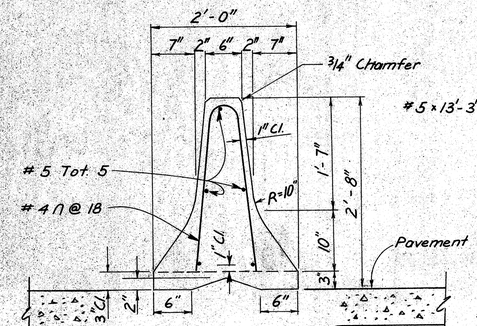


GROUND ANCHORAGE

Scale: ½" = 1'-0"

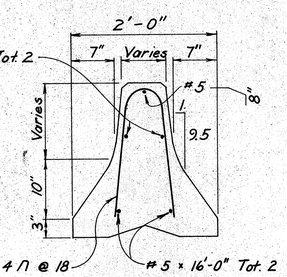
ELEVATION

Scale: ½"=1'-0"

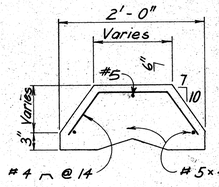


SECTION "A-A"

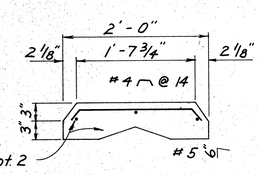
VIADUCT INSTALLATION



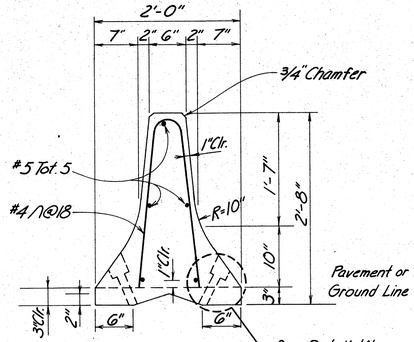
SECTION "B-B"



SECTION "C-C"



SECTION "D-D"



SECTION "A-A"

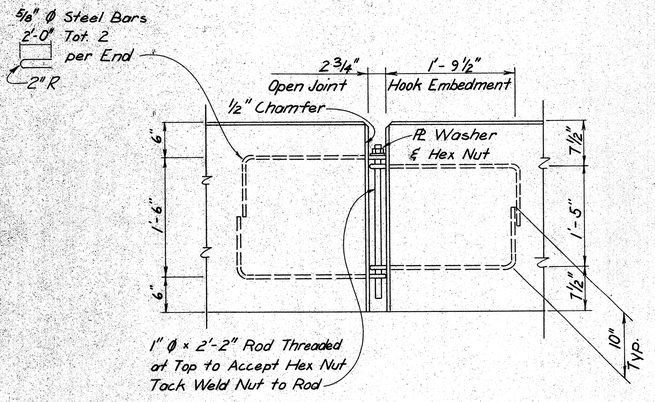
GROUND INSTALLATION (Typical)

SECTIONS

Scale: 1"=1'-0"

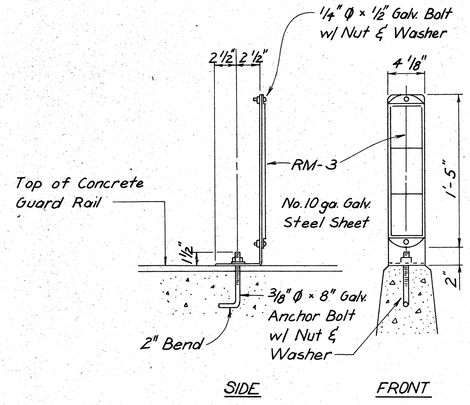
NOTES

1. For Details Not Shown in Sections B-B, C-C, & D-D, See Section A-A.
2. Reflector Marker Shall Not be Paid for Separately but Shall be Considered Incidental to Portable Concrete Guard Rail.
3. Concrete Shall be Class "A"
4. All Bolts to Have Cut Washers Unless Otherwise Noted.
5. Construct Asphalt Concrete or Motar Base where needed for proper sitting of Guard Rail on Existing Pavement and use aggregate base material on unpaved areas. Construction of base shall not be paid separately but shall be considered incidental to "Portable Concrete Guard Rail".
6. All Portable Concrete Guard Rail Sections shall be constructed as shown in Detail 'A' on both sides of Section for ground anchorage adaptability.



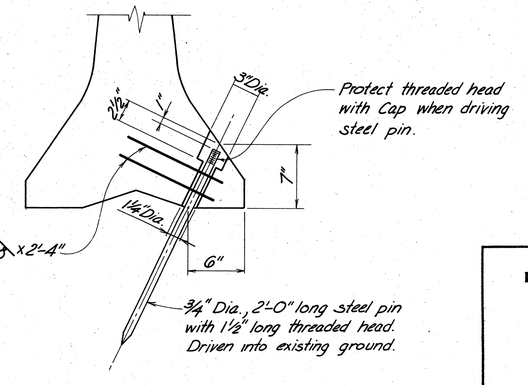
PIN CONNECTION DETAIL

Scale: 1" = 1'-0"



REFLECTOR MARKER MOUNTING DETAIL

Scale: 1½" = 1'-0"



DETAIL A - GROUND ANCHORAGE

Scale: 1½" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NIMITZ SPUR
PORTABLE CONCRETE GUARD RAIL
INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(99): 15

SCALE: AS SHOWN DATE: AUG 4 1978

SHEET No. 16 OF 25 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99)15	1977	85	350



CW20-1a 48"x48"



CW20-2d 48"x48"



CW20-3b 48"x48"



CW20-4d 48"x48"



CW20-5d(L) 48"x48"



CW20-7c 48"x48"



CW21-1 30"x30"



CW21-2 30"x30"



CW21-3 36"x36"



CW21-4 36"x36"



CW21-5 30"x30"



CW21-6 30"x30"



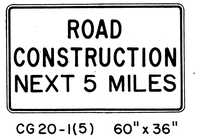
CW22-1b 48"x48"



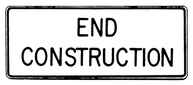
CW22-2 42"x36"



CW22-3 42"x36"



CG20-1(5) 60"x36"



CG20-2 60"x24"



CM4-9(R) 30"x24"



CM4-10(R) 48"x18"



CG20-4 36"x18"



CW23-1 36"x36"



CW23-2b 48"x48"



CW23-3(R) 48"x48"

GENERAL NOTES

1. Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended.
2. All construction signs shall be reflectorized.
3. All construction signs shall have $^{3}/_{8}$" bolt holes drilled at appropriate locations.
4. Numerals in ( ) indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
5. For "CW" series signs, suffixes a,b,c and d are as follows: a-1500 FT, b-1000 FT, c-500 FT and d-AHEAD.

APPROVAL RECOMMENDED:
Eiichi Imaka — TRAFFIC ENGINEER — 3/21/72 DATE

APPROVED:
Walter Dalsidi — ASSISTANT CHIEF, ENGINEERING — 3/23/72 DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 104 Approved 12-30-69	H.T.	3/23/72
2	Revised General Note 1	H.T.	10/16/74
3	Revised General Note 2	MH	9-16-75
4	Revised General Note 2 and sign CG20-1(5)	H.T.	9-14-76

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NIMITZ SFUR

STANDARD DETAILS

CONSTRUCTION SIGNS

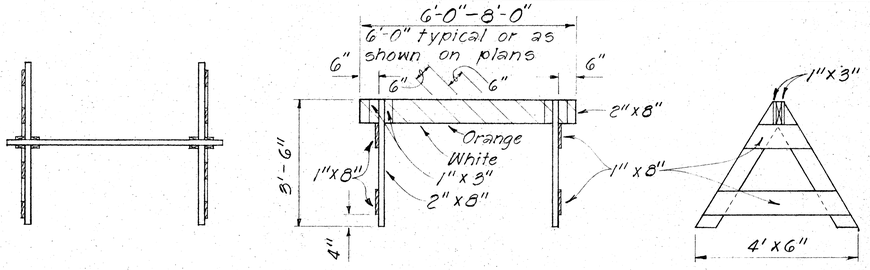
INTERSTATE ROUTE H-1
PROJ. NO. I-H1-1(99):15
NOT TO SCALE

SHEET No. OF SHEETS DT 104

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

K&E IMPERIAL LA 3207

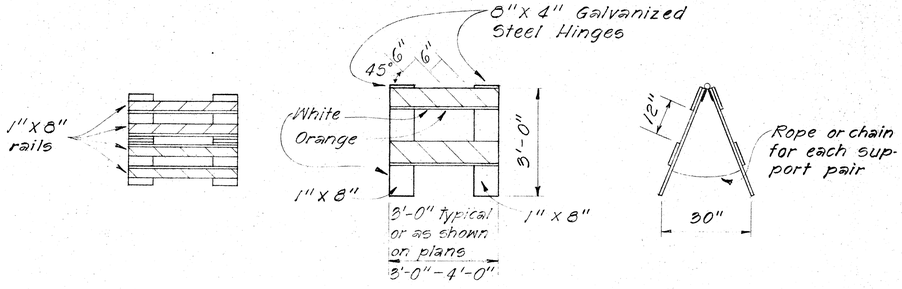
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99):15	1977		



PLAN VIEW FRONT VIEW END VIEW

TYPE I BARRICADE

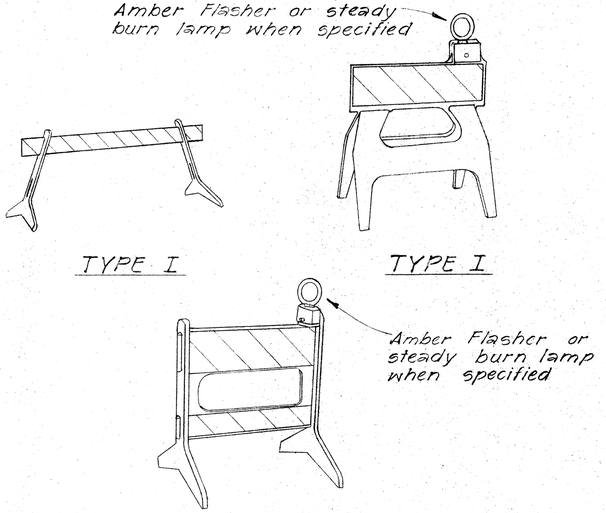
Scale: 1/2" = 1'-0"



PLAN VIEW FRONT VIEW END VIEW

TYPE II BARRICADE

Scale: 1/2" = 1'-0"



PLASTIC MOLDED BARRICADE OPTIONS *

Not to Scale

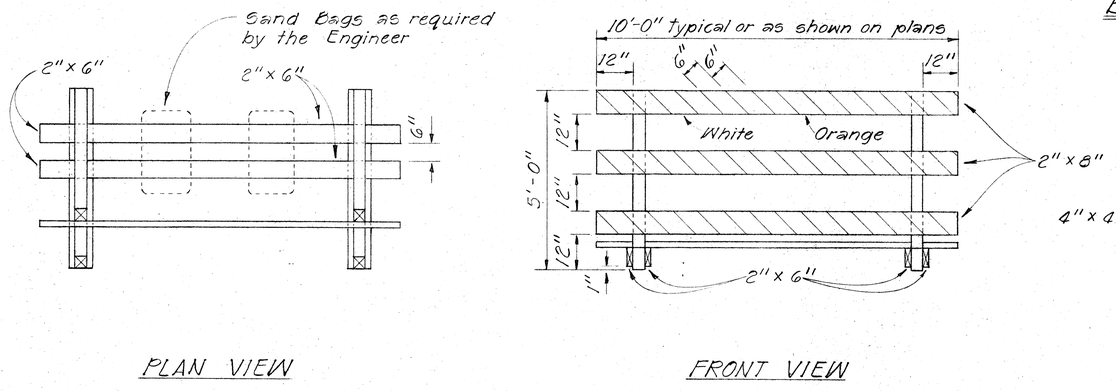
* Shop Drawings must be submitted for approval.



FRONT FACE BACK FACE

BARRICADE STRIPING DETAILS

Not to Scale



PLAN VIEW FRONT VIEW END VIEW

TYPE III BARRICADE

Scale: 1/2" = 1'-0"

GENERAL NOTES

1. The Contractor shall construct, install and maintain the barricades at the locations shown on the Plans.
2. The barricades shall be left in place or relocated upon completion of the project as ordered by the Engineer and are to become State property, unless otherwise specified.
3. The orange and white stripes shall slant downward toward the side on which traffic is to pass and shall be reflectorized with reflective sheeting.
4. Both faces of the barricade rails shall be striped. See Striping Detail Arrangement.
5. Contractor may submit alternate designs for approval.
6. Barricade details shall conform to the "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, by the Federal Highway Administration and as amended.
7. If wooden rails are used, 26 ga. galv. steel sheet shall be first tacked on to the rails and then overlayed with reflective sheeting.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NIMITZ SPUR

TYPICAL DETAILS

BARRICADES

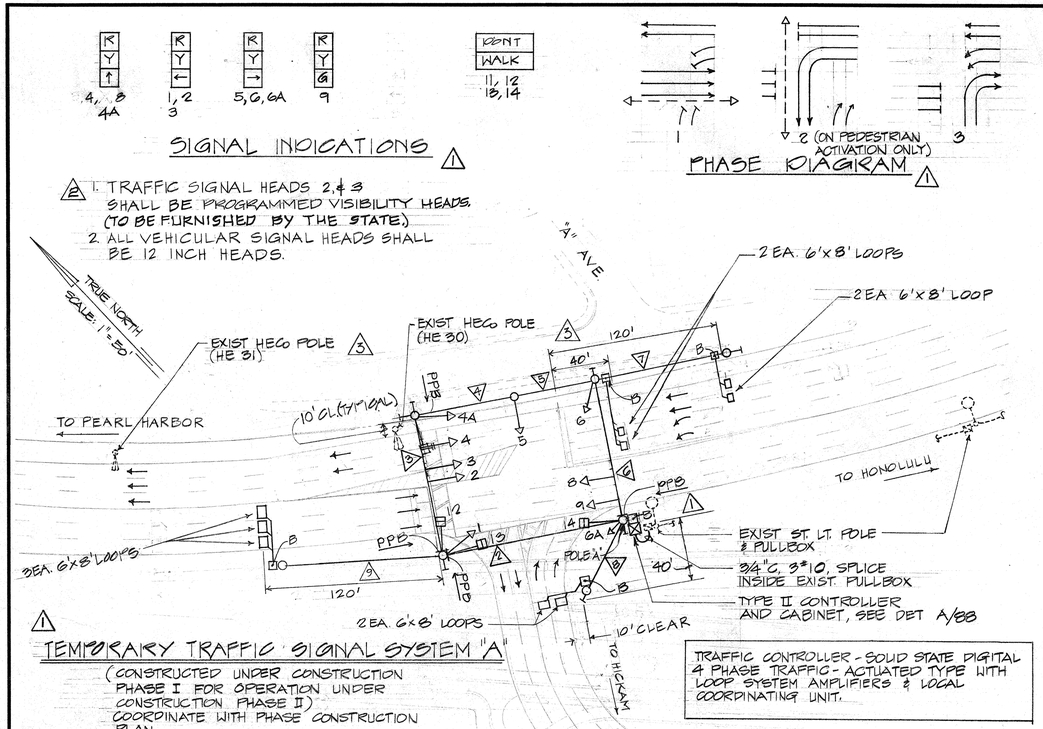
INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(99):15

SCALE: As Shown DATE:

SHEET No. 18 OF 25 SHEETS

K+E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99):15	1977	87	350



TEMPORARY TRAFFIC SIGNAL SYSTEM "A"

(CONSTRUCTED UNDER CONSTRUCTION PHASE I FOR OPERATION UNDER CONSTRUCTION PHASE II)
COORDINATE WITH PHASE CONSTRUCTION PLAN.

SIGNAL INDICATIONS

2 1. TRAFFIC SIGNAL HEADS 2, 4 & 8 SHALL BE PROGRAMMED VISIBILITY HEADS. (TO BE FURNISHED BY THE STATE.)
2. ALL VEHICULAR SIGNAL HEADS SHALL BE 12 INCH HEADS.

PHASE DIAGRAM

TRAFFIC CONTROLLER - SOLID STATE DIGITAL 4 PHASE TRAFFIC - ACTUATED TYPE WITH LOOP SYSTEM AMPLIFIERS & LOCAL COORDINATING UNIT.

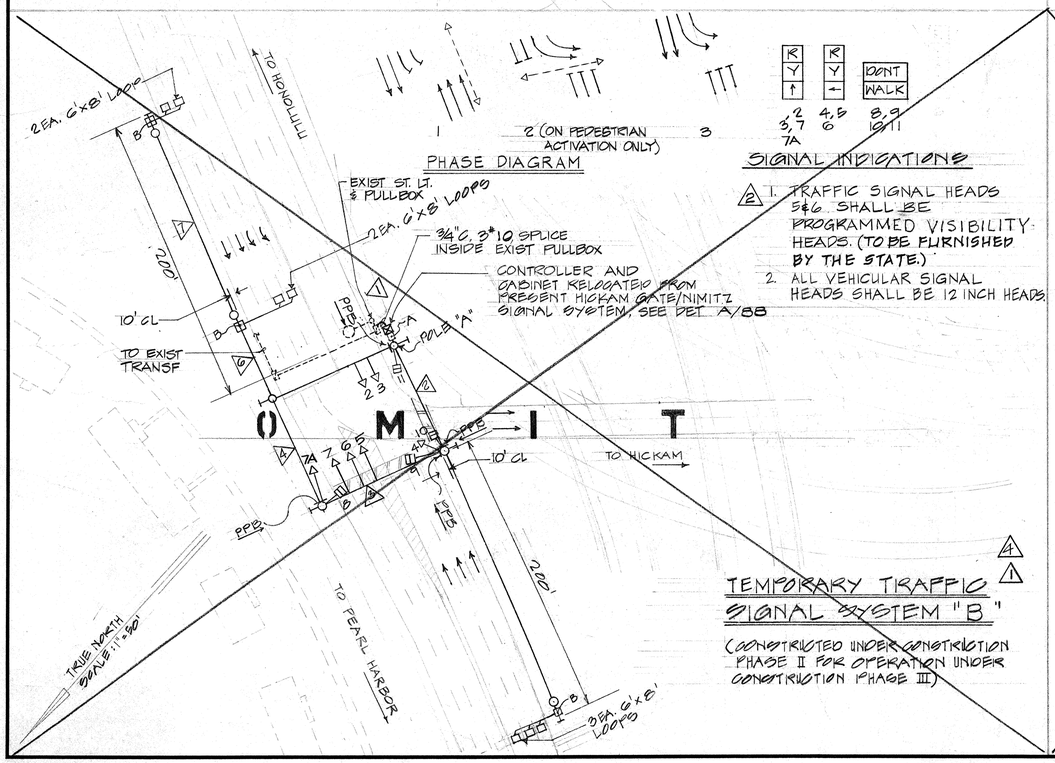
TRAFFIC SIGNAL SYSTEM "A"

RIGHT-OF-WAY INDICATIONS

SIGNAL	PHASE 1		PHASE 2		PHASE 3		FLASH (R-Y)
	R/W	CL.	R/W	CL.	R/W	CL.	
8	↑	Y	R	R	R	R	Y
4, 4A	↑	Y	R	R	↑	↑	Y
9	G	Y	R	R	R	R	Y
1, 2, 3	R	R	←	←	←	Y	R
5	R	R	→	→	→	Y	R
6, 6A	R	R	→	→	→	Y	R
11	DW	DW	W	F/DW	DW	DW	DW	OFF
12	DW	DW	W	F/DW	DW	DW	DW	OFF
13	W	F/DW	DW	DW	DW	DW	DW	OFF
14	W	F/DW	DW	DW	DW	DW	DW	OFF

LEGEND

	30' WOOD POLE W/ GUY ANCHOR ASSEMBLY
PPB	12" VEHICLE SIGNAL HEAD AND PEDESTRIAN SIGNAL HEAD ON 30' POLE. PEDESTRIAN PUSHBUTTON SHOWN.
	12" SIGNAL HEAD ON OVERHEAD MESSENGER.
2	OVERHEAD MESSENGER (W/ CABLE RUN DESIGNATION)
	VEHICLE LOOP DETECTOR
B	PULL-BOX, TYPE "B" SHOWN
	TYPE IV OR II CONTROLLER IN CONCRETE BASE MOUNTED CABINET AS CALLED FOR
X-WALK / STOP LINE	X-WALK & STOP LINE (VERIFY W/ MARKINGS PLAN)



PHASE DIAGRAM

SIGNAL INDICATIONS

2 1. TRAFFIC SIGNAL HEADS 5 & 6 SHALL BE PROGRAMMED VISIBILITY HEADS. (TO BE FURNISHED BY THE STATE.)
2. ALL VEHICULAR SIGNAL HEADS SHALL BE 12 INCH HEADS.

TEMPORARY TRAFFIC SIGNAL SYSTEM "B"

4 1 (CONSTRUCTED UNDER CONSTRUCTION PHASE II FOR OPERATION UNDER CONSTRUCTION PHASE III)

TRAFFIC SIGNAL SYSTEM "B" 1 4

RIGHT-OF-WAY INDICATIONS

SIGNAL	PHASE 1		PHASE 2		PHASE 3		FLASH (R-Y)
	R/W	CL	R/W	CL	R/W	CL	
2, 3	↑	Y	R	R	R	R	Y
7, 7A	↑	Y	R	R	↑	↑	Y
4, 5, 6	R	R	←	←	←	Y	R
8, 9	DW	DW	W	F/DW	DW	DW	DW	OFF
10, 11	W	F/DW	DW	DW	DW	DW	DW	OFF

O M I T

TRAFFIC SIGNAL SYSTEM "A"

CABLE SCHEDULE

CABLE RUN: ▷	DESCRIPTION
1	1 - 3/C #10 (2)
2	1 - 2/C #14 1 - 3/C #14
3, 4, 5	1 - 2/C #14
6	1 - 2/C #14 2 - 3/C #14
7, 8, 9	1 - 3/C #14

NO.	REVISION	APPROVED BY	DATE
4	DELETED TEMP. TRAFFIC SIGNAL "B", 2 RIGHT OF WAY INDICATIONS		11/24/78
3	DELETED PORTION OF NOTES		5/21/78
2	REVISED NOTES REVISED CABLE SIZE		3/2/78
1	REVISED TEMP. SIGNAL SYSTEMS A AND B.		

TAKETO KAWABATA — REGISTERED PROFESSIONAL ENGINEER — No. 750 — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Taketo Kawabata

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
TRAFFIC SIGNAL SYSTEM

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(99):15

SCALE: AS NOTED DATE: AUG 4 1976

SHEET No. 19 OF 25 SHEETS

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

PRINTED ON NO. 1000H CLEARPRINT

C.O. 87

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99):15	1977	88	350

TRAFFIC SIGNAL SYSTEM "B"

CABLE SCHEDULE

CABLE RUN : ▷	DESCRIPTION
1	1 - 2/C #8
2	1 - 2/C #14 1 - 2/C #14
3,4	1 - 2/C #14
5	1 - 2/C #14 2 - 2/C #14
6	2 - 2/C #14
7,8	1 - 2/C #14

NOTES ON SIGNAL INDICATIONS DURING CLEARANCE INTERVALS

1. IF A SIGNAL IS G OR ARROW, AND WILL REMAIN G OR ARROW DURING THE NEXT PHASE, IT SHALL BE G OR ARROW DURING THE CLEARANCE INTERVAL.
2. IF A SIGNAL IS G OR ARROW, AND WILL BECOME R DURING THE NEXT PHASE, IT SHALL BE Y DURING THE CLEARANCE INTERVAL.
3. IF A SIGNAL IS R, AND WILL REMAIN R OR BECOME G OR ARROW DURING THE NEXT PHASE, IT SHALL BE R DURING THE CLEARANCE INTERVAL.
4. WHEN A SINGLE MOVEMENT HAS THE RIGHT-OF-WAY, IT SHALL NOT BE NECESSARY TO SHOW OR TIME ANY CLEARANCE INTERVAL IN ORDER TO ACCORD RIGHT-OF-WAY TO AN ADDITIONAL NON-CONFLICTING MOVEMENT.

TRAFFIC SIGNAL CONSTRUCTION NOTES

1. LOCATION OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES, SUCH AS PIPELINES, CONDUITS, CABLES, ETC. SHOWN ON THE PLANS ARE APPROXIMATE ONLY. IT IS NOT THE INTENT OF THESE PLANS TO SHOW THE EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES AND STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES WITH THE RESPECTIVE OWNERS. EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST.
2. LOCATIONS OF TRAFFIC MARKINGS (STOP LINES, CROSS WALKS, ETC.) SHOWN ON THE TRAFFIC SIGNAL PLANS ARE TENTATIVE ONLY AND MERELY PROVIDE A BASIS FOR SIGNAL DESIGN. ALL MARKINGS SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ENGINEER PRIOR TO THE INSTALLATIONS OF THE TRAFFIC SIGNAL SYSTEMS.
3. THE LOCATIONS OF WOOD POLES AND GUY ASSEMBLIES, TRAFFIC SIGNAL HEADS AND PEDESTRIAN PUSH BUTTONS, CONTROLLER AND CABINET, PULL-BOXES AND LOOP DETECTORS SHALL BE STAKED OUT IN THE FIELD BY THE CONTRACTOR. APPROVAL OF THE LOCATIONS SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO THE CONSTRUCTION AND INSTALLATION OF ANY PART OF THE SIGNAL SYSTEM.
4. ALL TRAFFIC SIGNAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", FEDERAL HIGHWAY ADMINISTRATION (1971).
5. TRAFFIC SIGNAL SYSTEM "A" SHALL BE INSTALLED AND CONSTRUCTED WITH ALL NEW EQUIPMENT.
6. THE CONTRACTOR SHALL UTILIZE THE CONTROLLER, CABINET AND AUXILIARY EQUIPMENT FROM THE EXISTING SIGNAL SYSTEM AT HICKAM FIELD GATE AND NIMITZ HIGHWAY FOR TRAFFIC SIGNAL SYSTEM "B". THE EXISTING TRAFFIC SIGNAL HEADS, IF APPROPRIATE FOR THE NEW SYSTEM, MAY ALSO BE UTILIZED WITH THE APPROVAL OF THE ENGINEER.
7. WORK BY THE DEPARTMENT OF TRANSPORTATION SERVICES, CITY & COUNTY OF HONOLULU (SEE SPECIFICATIONS FOR DETAILS):
   a. ASSEMBLE AND CONNECT CONTROLLERS AND AUXILIARY EQUIPMENT IN CABINETS.
   b. MAKE ALL ELECTRICAL CONNECTIONS IN FIELD FOR SIGNAL SYSTEMS AFTER THE SYSTEMS HAVE BEEN INSTALLED IN PLACE BY THE CONTRACTOR.
   c. FINAL ADJUSTMENT OF TRAFFIC SIGNAL CONTROL EQUIPMENT.
   d. REWIRE AND MODIFY EXIST. CONTROLLER CABINET AT THE HICKAM GATE/NIMITZ SIGNAL SYSTEM TO FUNCTION AS CALLED FOR UNDER TEMPORARY TRAFFIC SIGNAL SYSTEM "B."

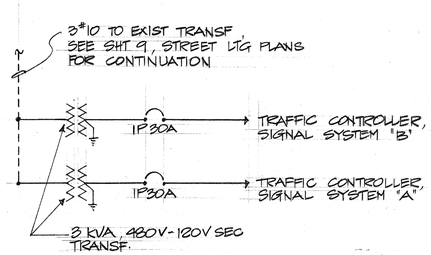
INVENTORY OF EXISTING TRAFFIC SIGNAL EQUIPMENT AT HICKAM FIELD GATE/NIMITZ HIGHWAY

(GIVEN FOR CONVENIENCE OF CONTRACTOR; CONTRACTOR SHALL VERIFY INVENTORY IN THE FIELD.)

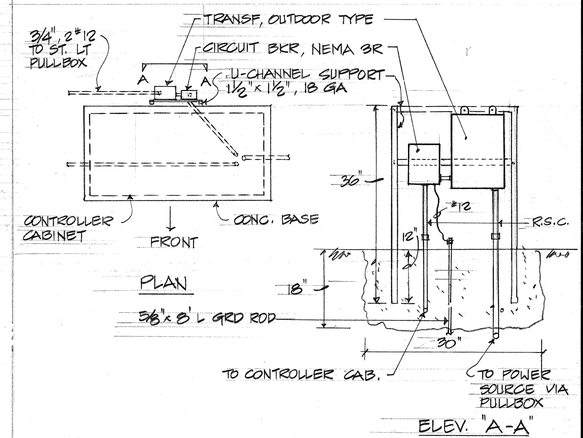
ITEM NO.	QUANTITY	DESCRIPTION
1.	1 EA.	TRAFFIC SIGNAL CONTROLLER, ASD 1033, ASD TYPE M CABINET AND AUXILIARY EQUIPMENT
2.	1 EA.	METAL TRAFFIC SIGNAL STANDARD - 8 FT. HEIGHT.
3.	4 EA.	METAL TRAFFIC SIGNAL STANDARD - SPAN WIRE TYPE
4.	1 EA.	TRAFFIC SIGNAL HEAD ASSEMBLY 1W, 1V (1S), TYPE IV MOUNTING ↑ 12-INCH
5.	1 EA.	TRAFFIC SIGNAL HEAD ASSEMBLY 2W, 2V (1S AND 3S), 1H(3S), SPECIAL MOUNTING ↑ 12-INCH; R-Y-G 8 INCH; ← Y ← 8-INCH
6.	1 EA.	TRAFFIC SIGNAL HEAD ASSEMBLY 2W, 2V (BOTH 3S), TYPE IX MOUNTING R-Y-G, R-Y-← (BOTH 12 INCH)
7.	1 EA.	TRAFFIC SIGNAL HEAD ASSEMBLY 2W, 2V (BOTH 3S), TYPE II MOUNTING R-Y-G, 12 INCH R-Y-G, 8 INCH
8	2 EA.	TRAFFIC SIGNAL HEAD ASSEMBLY 2W, 2V (BOTH 3S), TYPE IX MOUNTING R-Y-G, 12 INCH R-Y-G, 8 INCH

ABBREVIATIONS:

ASD	: AUTOMATIC SIGNAL DIVISION
W	WAY
V	VERTICAL
H	HORIZONTAL
S	SECTION
R-Y-G	RED, YELLOW, GREEN
↑	ARROW



PARTIAL ONE-LINE DIAGRAM



A (88) TRANSFORMER & CIRCUIT BREAKER MOUNTING DETAIL

NOT TO SCALE

TAKETO KAWABATA REGISTERED PROFESSIONAL ENGINEER No. 750 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Taketo Kawabata

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
TRAFFIC SIGNAL SYSTEM

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(GA):15

SCALE: NONE DATE: AUG 4 1976

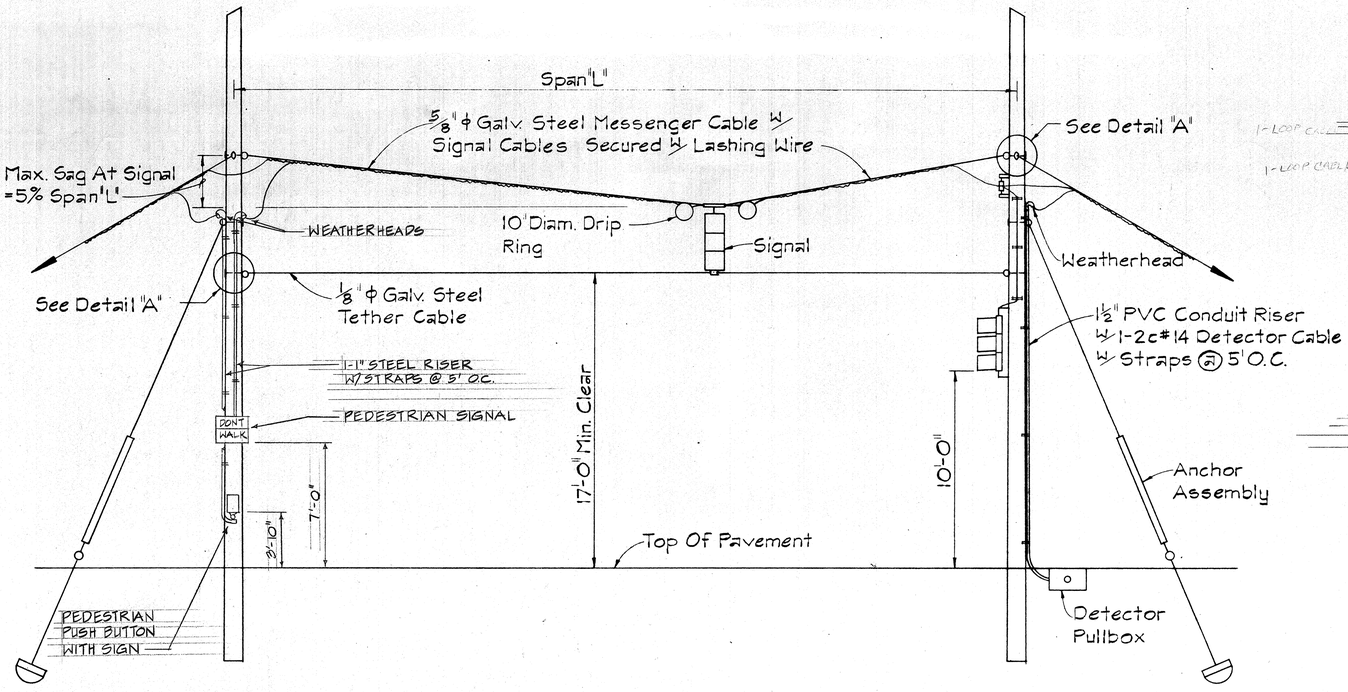
SHEET No. 20 OF 25 SHEETS

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

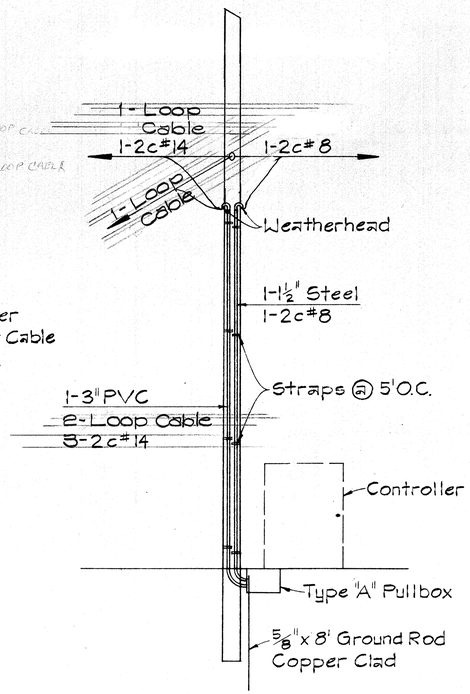
PRINTED ON NO. 1000H CLEARPRINT

88

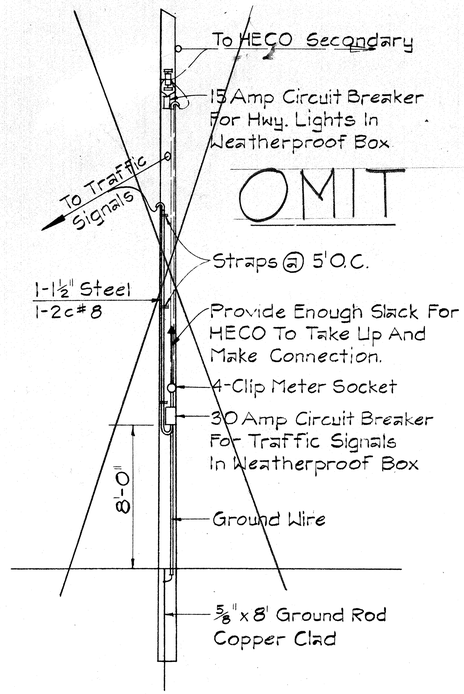
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(69):15	1977	89	350



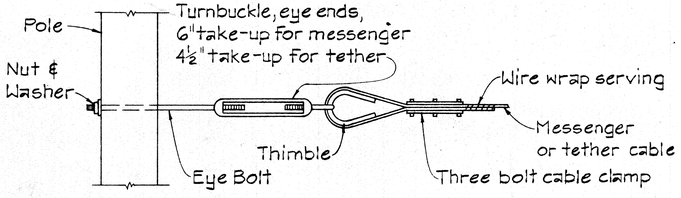
TYPICAL OVERHEAD INSTALLATION
Not To Scale



POLE "A"
Not To Scale



METER POLE
Not To Scale



NOTE:

1. Messenger and tether cables shall conform to A.S.T.M. A-475-62, extra high strength, class "C" coating.
2. All cable fittings shall be galvanized.
3. All fittings shall be designed for full strength of connected cable.

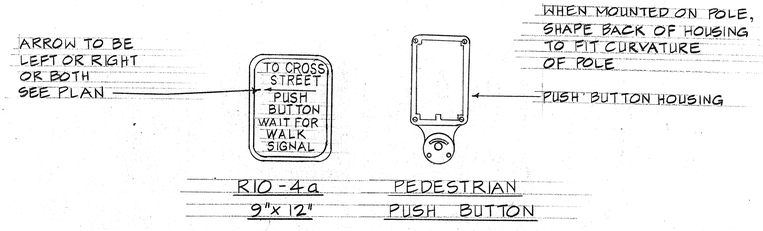
DETAIL "A"
Not To Scale

SIGNAL NOTES:

The exact location of poles and signals shall be determined in the field by the Engineer.

All materials and workmanship shall conform to the latest requirements of the "National Electric Code," the Rules for Overhead Electric Line Construction, General Order No. 6 of the Public Utilities Commision, the standards of ASTM, Local Joint Pole Agreement, Local Power Company Rules, and any local ordinances which may apply.

Wood poles shall be 30ft. (exposed length), Class V fully creasoted by pressure treatment.



R10-4a 9"x 12" PEDESTRIAN PUSH BUTTON

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NIMITZ SPUR

TRAFFIC SIGNAL SYSTEM INSTALLATION DETAILS

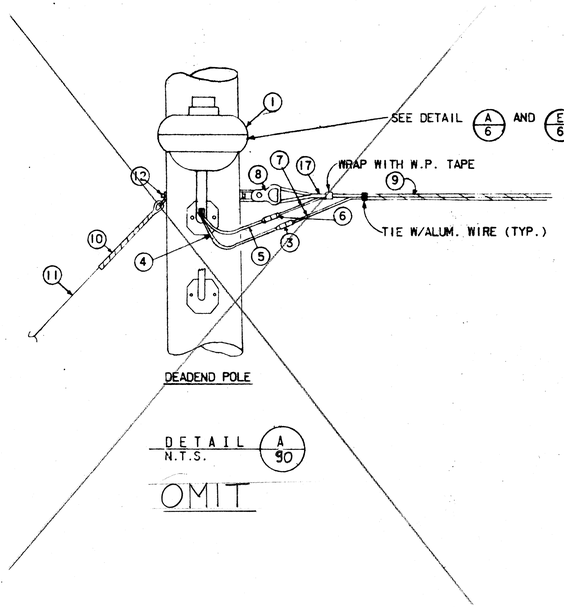
INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(69):15
SCALE: NONE DATE: AUG 4 1976

Tadashi Kawabata

SHEET No. 21 OF 25 SHEETS

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

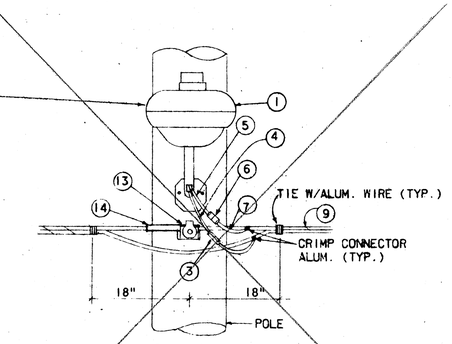
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99):15	1977	90	350



DEADEND POLE

DETAIL A 90
N.T.S.

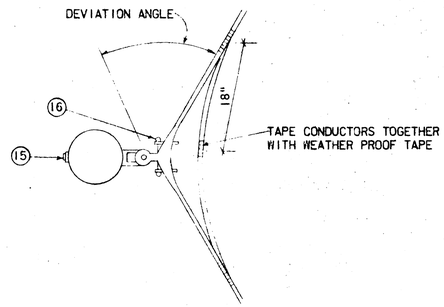
OMIT



THRU POLE

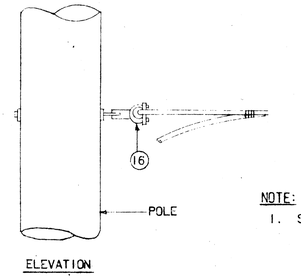
DETAIL B 90
N.T.S.

OMIT



PLAN

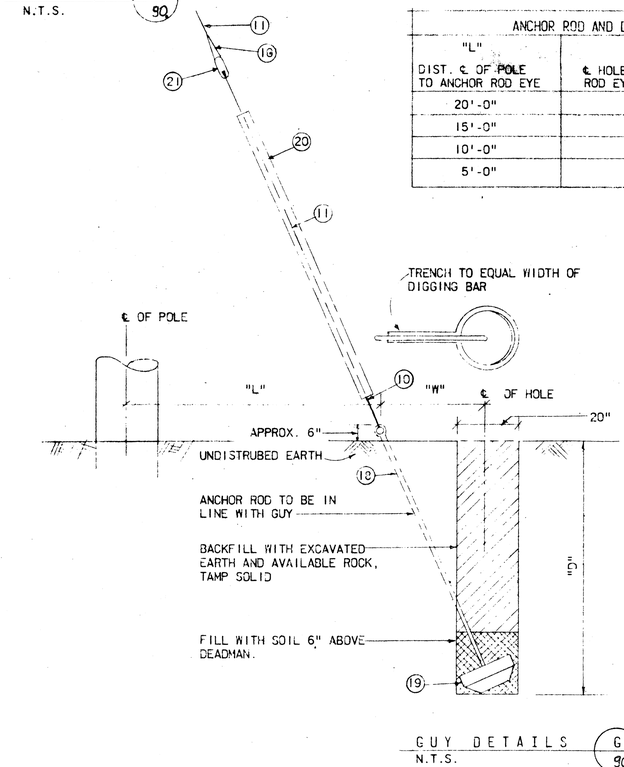
DEVIATION ANGLE 10° - 30°
ANGLE POLE



ELEVATION

NOTE:
1. SEE SHEET 91 FOR LIST OF MATERIAL

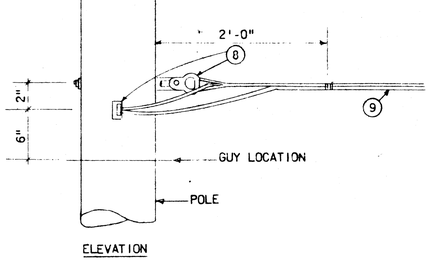
DETAIL C 90
N.T.S.



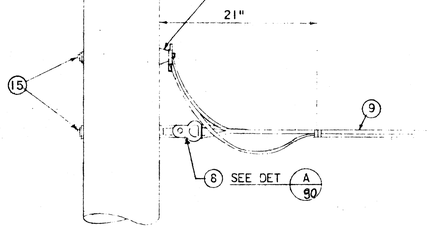
ANCHOR ROD AND DEADMAN DIMENSIONS		
"L" DIST. ℄ OF POLE TO ANCHOR ROD EYE	"W" ℄ HOLE TO ANCHOR ROD EYE	"D" VERTICAL DEPTH
20'-0"	56"	66"
15'-0"	48"	73"
10'-0"	36"	79"
5'-0"	20"	85"

GUY DETAILS
N.T.S.

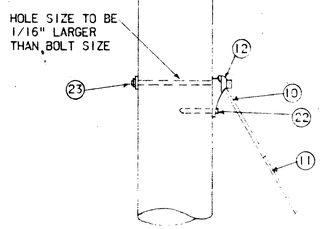
G 90



ELEVATION

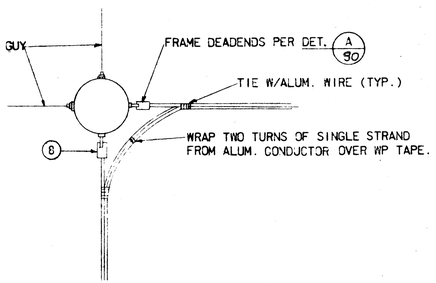


ELEVATION



ANCHOR GUY ATTACHMENT

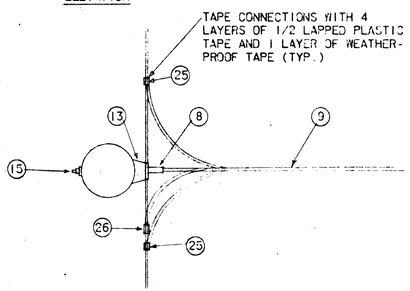
DETAIL F 90
N.T.S.



PLAN

DEVIATION ANGLE 30° - 90°

DETAIL D 90
N.T.S.



PLAN

TEE POLE

DETAIL E 90
N.T.S.

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

ORIGINAL PLAN
NOTE BOOK
No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR

MESSENGER DETAILS

INTERSTATE ROUTE H-1
PROJECT No. I-HI-1(99):1S

SCALE: NONE DATE: AUG 4 1976

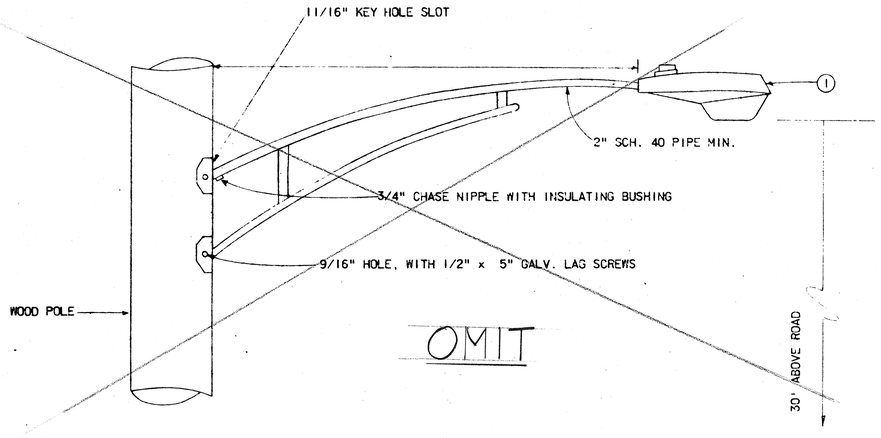
SHEET No. 22 OF 25 SHEETS

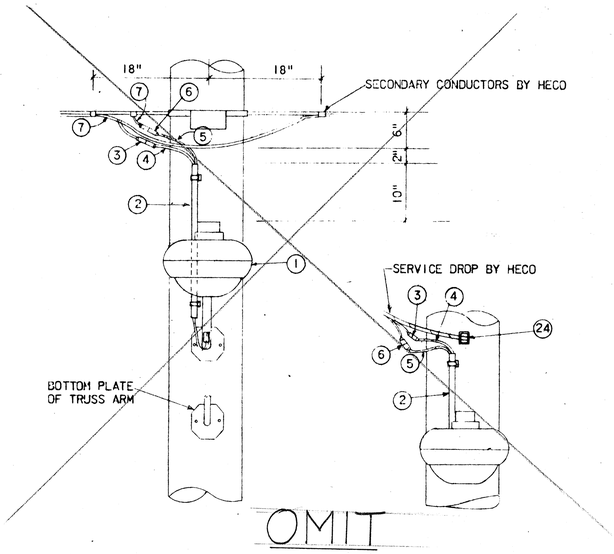
K&E CRYSTALCHROME

Traffic signals Nimitz spur

90

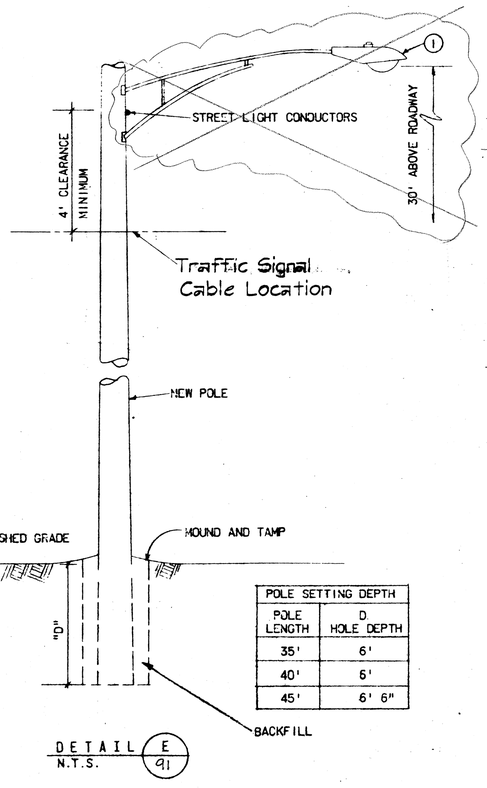
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99):15	1977	91	350





DETAIL A
N.T.S.

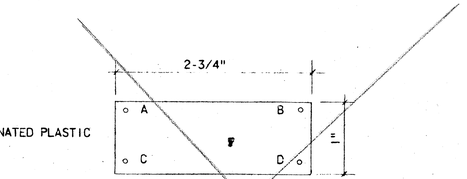
DETAIL B
N.T.S



OMIT

POLE SETTING DEPTH	
POLE LENGTH	D HOLE DEPTH
35'	6'
40'	6'
45'	6' 6"

DETAIL E
N.T.S. 91



A = CONTRACT NO. (OBTAIN FROM STATE OR HECO)
B = LT. NO. FROM STATE
C = H-400
D = (IES TYPE DISTRIBUTION)

IDENTIFICATION TAG C
N.T.S.

OMIT

LIST OF MATERIAL

ITEM NO.	DESCRIPTION
1	LUMINAIRE, MERCURY, 400W, AS INDICATED, TYPE WITH PHOTO-ELECTRIC CONTROL AND MAST ARM.
2	CONDUIT, 3/4" PVC SCHEDULE 80 AND STRAPS
3	IN LINE FUSE HOLDER W/10A FUSE
4	WIRE, NO.10 AWG STRANDED COPPER, TYPE RHW BLACK
5	WIRE, NO.10 AWG STRANDED COPPER, TYPE RHW WHITE
6	IN LINE UNFUSED, INSULATED SEPARABLE CONNECTOR
7	WIRE NO.8 AWG 7-STRAND ALUMINUM, TYPE RHW
8	THIMBLE CLEVIS, ALUMINUM ALLOY WITH ALUMINUM. ALLOY EYELET
9	WIRES, 2 NO.1/0 CROSS-LINKED POLYETHYLENE ALUM. WITH NO.3/0 AAAC NEUTRAL MESSENGER
10	PERFORMED GUY GRIP
11	GUY WIRE, 3/8" EHS, GALV.
12	ANCHOR GUY HOOK W/3/4" DIA. THRU BOLT AND 2-1/4" SQ. WASHER
13	MESSENGER HANGER, CAST ALUMINUM W/5/8" ALUMINUM ALLOY THRU BOLT AND 2-1/4" ALUM. ALLOY SQUARE WASHER
14	ALUMINUM SHEET WRAP (AROUND MESSENGER)
15	5/8" ALUM. ALLOY THRU BOLT W/2-1/2" SQUARE ALUM. ALLOY CURVED WASHER, LENGTH AS REQUIRED.
16	ALUMINUM ALLOY SUSPENSION CLAMPS WITH LINE GUARD AND ALUM. ALLOY EYELET
17	ALUM. ALLOY PREFORMED DEADEND
18	ANCHOR ROD, 1" X 8' COPPER CLAD.
19	CONCRETE DEADMAN, 18" DIAMETER W/GALV. SQUARE WASHER
20	GUY WIRE GUARD, GALV.
21	INSULATOR, PORCELAIN
22	LAG SCREW
23	5/8" GALVANIZED THRU BOLT W/2-1/2" SQUARE GALV. WASHER AND NUT, LENGTH AS REQUIRED.
24	DEADEND SPOOL AND FORK
25	ALUMINUM COMPRESSION TAP CONDUCTOR, NO.1/0 ALUMINUM
26	ALUMINUM COMPRESSION TAP CONDUCTOR, NO.3/0 ALUMINUM

NOTES:

1. ALL HARDWARE, UNLESS INDICATED AS ALUMINUM OR ALUMINUM ALLOY, SHALL BE HOT DIPPED GALVANIZED STEEL.
2. PROVIDE IDENTIFICATION TAG ON ALL POLES.
3. STREET LIGHT NUMBERS ON PLANS DO NOT CORRESPOND WITH NUMBERS ON IDENTIFICATION TAGS. LIGHT NUMBERS TO BE ENGRAVED ON IDENTIFICATION TAG TO BE OBTAINED FROM STATE OF HAWAII.

ORIGINAL PLAN
NOTE BOOK
DATE
STATUS PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
NO.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR
MESSENGER DETAILS

INTERSTATE ROUTE H-1
PROJECT No. I-HI-1(99):15

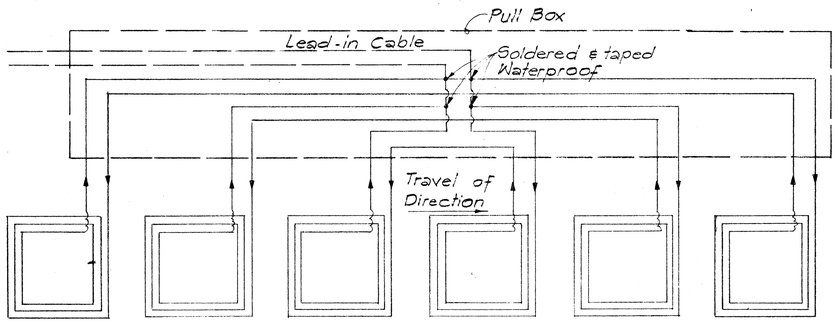
SCALE: NONE DATE: AUG 4 1976

SHEET No. 23 OF 25 SHEETS

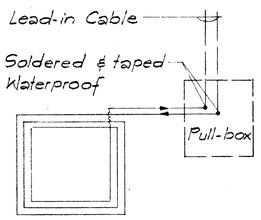
traffic signal system

91

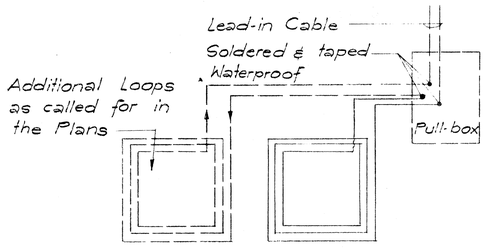
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(99)115	1977	98	350



TYPICAL SERIES - PARALLEL LOOP CONNECTION IN LEFT TURN LANES



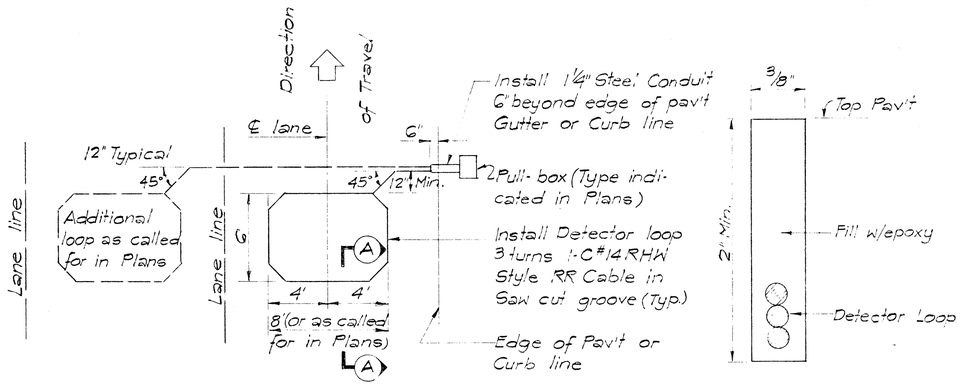
SINGLE



SERIES

TYPICAL LOOP CONFIGURATIONS

No scale



PLAN - MULTIPLE LOOP LAYOUT

Scale 1" = 5'

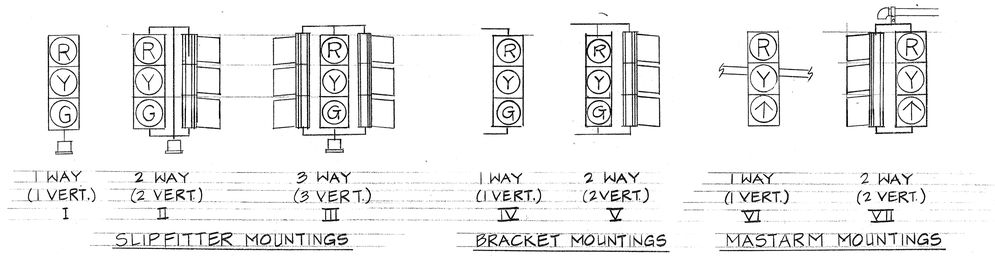
SECTION A-A (TYPICAL)

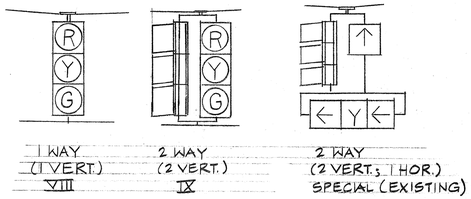
Detector loop Saw-cut

No Scale

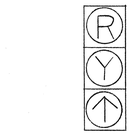
DETECTION LOOP

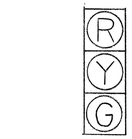
Scale as shown





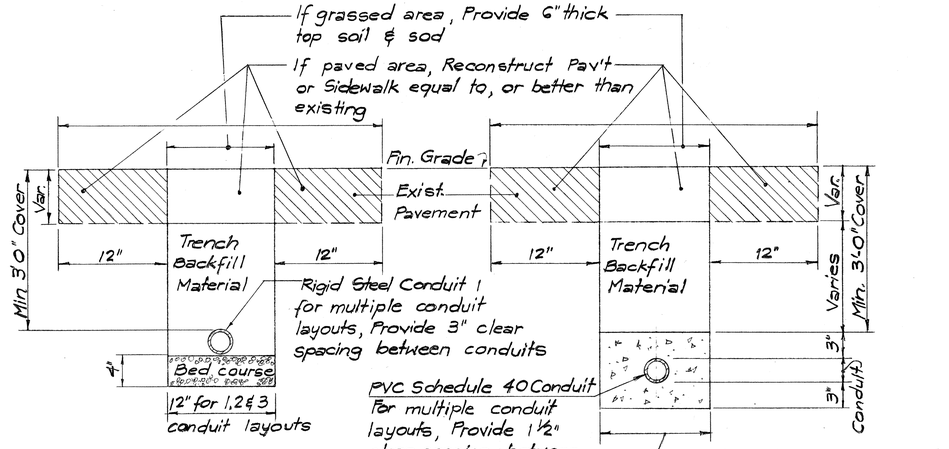
TYPICAL VEHICULAR AND PEDESTRIAN SIGNAL MOUNTINGS







TYPICAL SIGNAL ARRANGEMENTS



TYPICAL TRENCH SECTION RIGID STEEL CONDUIT

Scale 1½" = 1'-0"

TYPICAL TRENCH SECTION PVC CONCRETE ENCASED CONDUIT

Scale 1½" = 1'-0"

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NIMITZ SPUR

TRAFFIC SIGNAL LOOP DETECTOR DETAILS

INTERSTATE ROUTE H-1
PROJECT No. I-HI-1(99)115

SCALE: NONE DATE: AUG 4 1976

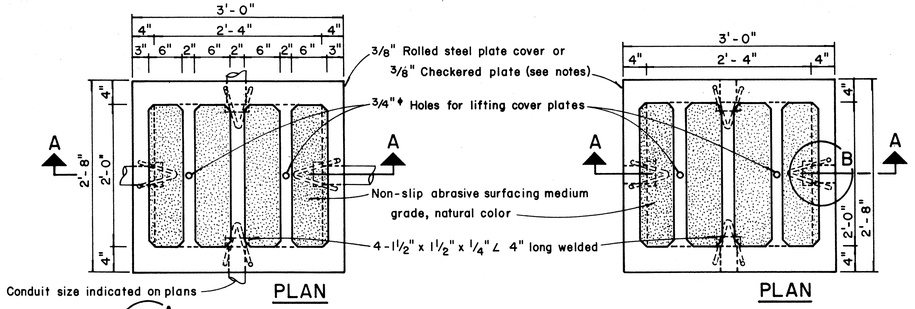
SHEET No. 24 OF 25 SHEETS

PRINTED ON NO. 1000H CLEARPRINT

97-2

Nimitz Spur

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(99):15	1977	93	350

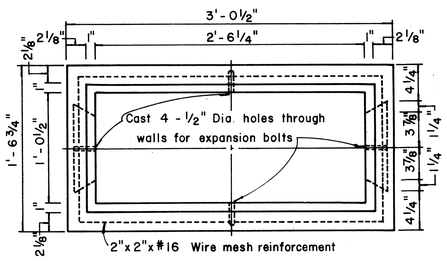


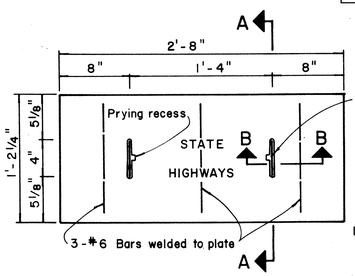
TYPE "A" PULLBOX CAST-IN-PLACE

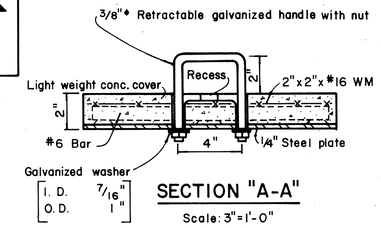
Scale: 1" = 1'-0"

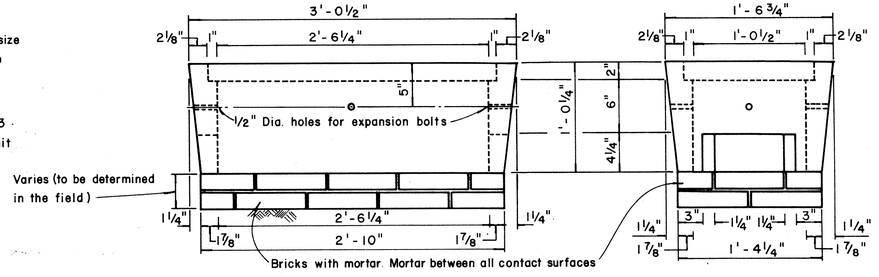
TYPE "A" PULLBOX PRECAST

Scale: 1" = 1'-0"



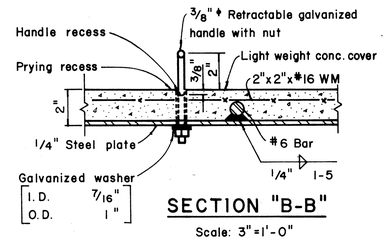


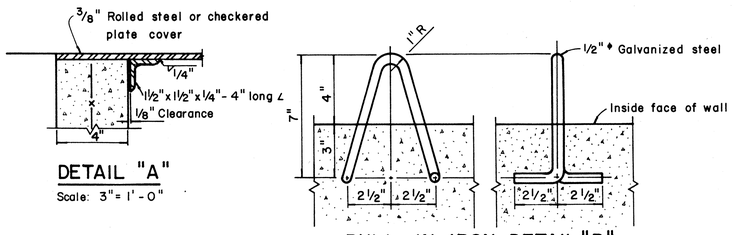




TYPE "C" PULLBOX

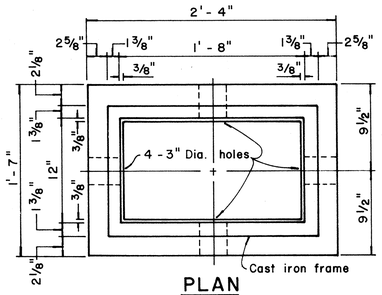
Scale: 1 1/2" = 1'-0"





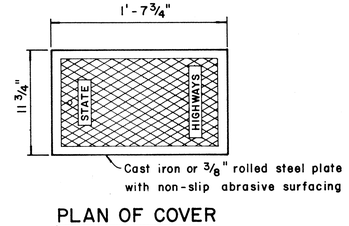
NOTES: (FOR TYPE "A" PULLBOX)

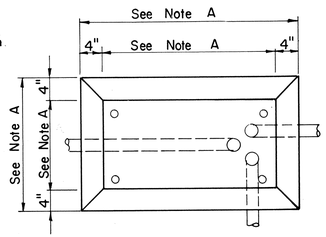
1. 3/8" Rolled steel plate cover with non-slip abrasive surfacing medium grade, natural color shall be used on all pullboxes located on sidewalk areas where pedestrians are walking.
2. 3/8" Checkered plate cover shall be used on all pullboxes located in median areas and other locations where there are no pedestrians walking.
3. Pull irons shall be placed opposite each conduit slot.
4. Covers on all pullboxes located in sidewalk areas shall be set flush with the concrete sidewalk.
5. Each pullbox shall have a pair of pull irons opposite each other for lifting purposes.

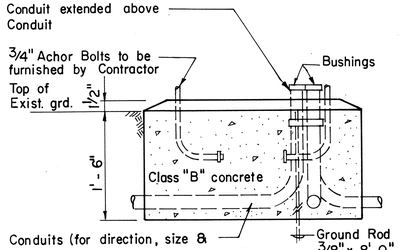


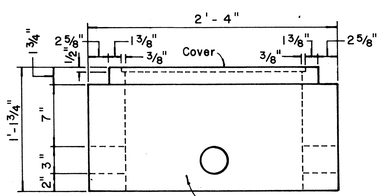
NOTE:

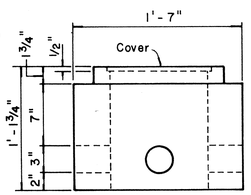
Steel rim shall be welded to bottom of steel cover if necessary so that top of cover and frame are flush











TYPE "B" PULLBOX

Scale: 1 1/2" = 1'-0"

NOTES

A. Dimensions to be determined by the size of the Controller Cabinet to be furnished under this Contract.

B. Details of Conduits, Anchor Bolts, etc. are approximate only. Exact details shall be secured by the Contractor from Manufacturer.

CONCRETE BASE FOR CONTROLLER CABINET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NIMITZ SPUR

TYPICAL DETAILS

PULLBOXES

INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(99):15

Scale as noted Date AUG 4 1976

SHEET No. 25 OF 25 SHEETS

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

PRINTED ON NO. 1000H CLEARPRINT

93

Nimitz Spur WCH MAG 12 6