

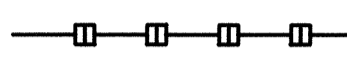



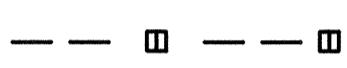
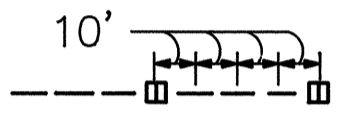
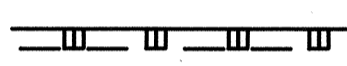




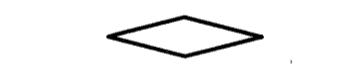

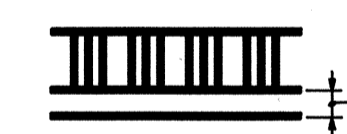







FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	67	186

LEGEND

-  4" WHITE STRIPE (UNLESS SHOWN OTHERWISE)
-  8" WHITE STRIPE
-  8" WHITE STRIPE WITH TYPE CL* MARKERS AT 20' (UNLESS SHOWN OTHERWISE)
-  4" YELLOW STRIPE WITH TYPE HL* MARKERS AT 40'
-  4" DOUBLE YELLOW STRIPE WITH TYPE DL* MARKERS AT 20'
-  4" DOUBLE YELLOW STRIPE
-  4 TYPE A MARKERS AND TYPE CL* MARKERS AT 40'
-  4" WHITE STRIPE, 2'-0" LONG, WITH TYPE CL* MARKERS AT 40'
-  4" WHITE STRIPE, 4 TYPE A MARKERS AT 40', AND TYPE CL* MARKERS AT 20'
-  12" STOP LINE
-  4" WHITE INTERSECTION GUIDE LINE (UNLESS SHOWN OTHERWISE)
-  NEW OR RELOCATED SIGN
-  EXISTING SIGNS
-  PAVEMENT DIAMOND
-  STANDARD PAVEMENT ARROWS
-  CROSSWALK AND 12" STOP LINE; STOP 10' ON KALANIANAOLE HWY 5' ON SIDESTREETS
-  PORTABLE CONCRETE GUARDRAIL
-  ANCHOR BASE FOR PORTABLE CONTRA-FLOW SIGN
-  INERTIAL BARRIER SYSTEM
-  EXISTING UTILITY POLE
-  BIKE LANE PAVEMENT MARKING (SEE DETAIL ON SHEET NO. P-12)

* SEE PAVEMENT MARKING NOTE #2.

MAINTENANCE OF TRAFFIC NOTES

1. ALL LANE CLOSURES, BUS STOP RELOCATIONS AND OTHER TRAFFIC PATTERN CHANGES (DETOURS) NOT SHOWN ON THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL IN ACCORDANCE WITH SPECIFICATIONS SUBSECTION 107.13 - PUBLIC CONVENIENCE AND SAFETY. FOR RESTRICTIONS ON LANE CLOSURES, DETOURS, CONSTRUCTION WORK DURING PEAK HOURS, AND OTHER REQUIREMENTS REGARDING MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC SEE SUBSECTION 107.13 - PUBLIC CONVENIENCE AND SAFETY.
2. WORK SHOWN ON PLANS FOR TEMPORARY TRAFFIC PATTERNS A AND B AND RESTORATION TRAFFIC PATTERN A WHERE REQUIRED DUE TO PLACEMENT OF PAVEMENT TRANSITIONS WILL BE MEASURED AND PAID FOR THE SAME WAY AS FOR THE FINAL TRAFFIC PATTERN C. PAYMENT FOR RESTORATION OF LESS THAN 1/2 OF A CROSSWALK WILL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS. TRAFFIC CONTROL WORK WHICH IS NOT SHOWN ON THE PLANS INCLUDING TEMPORARY RELOCATION OF BUS STOPS WILL BE PAID FOR IN ACCORDANCE WITH SPECIFICATIONS SECTIONS 645 - TRAFFIC CONTROL.
3. SHOULDERS OF AT LEAST 4 FEET WIDTH SHALL BE MAINTAINED. EDGE OF SHOULDER SHALL BE DELINEATED BY PORTABLE CONCRETE GUARD RAIL SECTIONS OR BY TRAFFIC DELINEATORS AND BARRICADES AS SHOWN ON SHEET P-12. TERMINI OF PORTABLE CONCRETE GUARD RAIL SHALL ALWAYS CONSIST OF A TAPERED TERMINAL PANEL. PAYMENT FOR TEMPORARY RESETTING OF PORTLAND CONCRETE GUARD RAILS TO FACILITATE CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.
4. PROVIDE STEADY BURN AMBER LAMPS AT 20' O.C. ON PORTABLE CONCRETE GUARD RAIL DURING NIGHT-TIME HOURS. PAYMENT WILL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS. REFLECTOR MARKERS ON PORTABLE CONCRETE GUARD RAILS ARE NOT REQUIRED.

SIGNING NOTES:

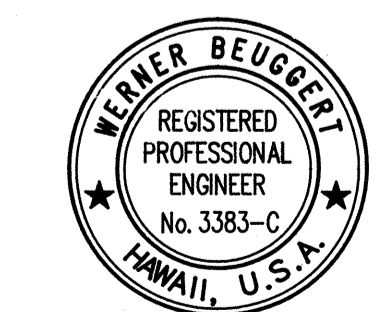
1. SIGN DETAILS SHALL CONFORM TO THE LATEST EDITIONS AND AMENDMENTS OF THE FOLLOWING FHWA PUBLICATIONS: "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", "STANDARD HIGHWAY SIGNS" AND "STANDARD ALPHABETS FOR HIGHWAY SIGNS."
2. BORDER WIDTHS AND RADII SHALL CONFORM TO STANDARD PLAN TE-14, EXCEPT AS NOTED. SIGNS SHALL BE COMPLETELY REFLECTORIZED WITH TYPE B SHEETING.
3. SIGN S-1 THRU S-8 SHALL BE MOUNTED HORIZONTALLY ON TRAFFIC SIGNAL MASTARMS WITH A MINIMUM OF TWO SETS OF BAND BRACKETS AND BACK BRACES. SEE STANDARD PLAN TE-01 FOR DETAILS.
4. SIGNS DIR-1 AND DIR-2 SHALL BE MOUNTED IN ACCORDANCE WITH STANDARD PLAN TE-03.
5. RESETTING OF EXISTING STREET NAME SIGNS IN SIDEWALKS WILL BE PAID UNDER 'RELOCATION OF SIGN'. (SIGNS NOT SHOWN ON PLANS.)
6. PAYMENT FOR RELOCATING REFLECTOR MARKERS AND TEMPORARY RELOCATION OF SIGNS TO FACILITATE CONSTRUCTION WILL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.
7. SUPERFLUOUS EXISTING SIGNS ARE GENERALLY NOT SHOWN ON PLANS. THEY SHALL BE REMOVED AND STOCKPILED AS DIRECTED BY THE ENGINEER. REMOVAL OF SIGNS SHALL ALSO INCLUDE THE REMOVAL OF POST AND FOUNDATION. POSTS AND FOUNDATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. PAYMENT WILL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.
8. THE WORDS "BIKE LANE" SHALL BE TEMPORARILY COVERED ON ALL SIGNS R7-9A LOCATED IN MAKAI SIDEWALK. COVER SHALL BE REMOVED AFTER ALL UTILITY POLES IN BIKE LANE HAVE BEEN REMOVED. PAYMENT WILL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.
9. PAYMENT FOR CONSTRUCTION SIGNS AND STATE ROUTE MARKERS WILL BE MADE UNDER PAY ITEM "REGULATORY AND WARNING SIGN ...".
10. TEMPORARY SUPPORT MAY BE USED FOR CONSTRUCTION SIGNS AND SIGNS INDICATED ON THE PLANS. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR PROPOSED TEMPORARY SUPPORTS.
11. UNLESS OTHERWISE DIRECTED BY THE ENGINEER FINAL SIGNS IN SIDEWALKS SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE RIGHT-OF-WAY LINE.

PAVEMENT MARKING NOTES:

1. EXCEPT AS OTHERWISE SHOWN ON THE PLANS, THE FOLLOWING MATERIALS SHALL BE USED FOR PAVEMENT STRIPING, ARROWS, DIAMONDS AND OTHER SYMBOLS:
 TRAFFIC PATTERN A & B: TEMPORARY PREFORMED PAVEMENT MARKING TAPE
 TRAFFIC PATTERN C: (a) REFLECTIVE THERMOPLASTIC COMPOUND PAVEMENT MARKINGS, OR (b) PERMANENT PREFORMED PAVEMENT MARKING TAPE TYPE I, FOR ALL MARKINGS EXCEPT EDGE STRIPING. TYPE II TAPE SHALL BE USED FOR EDGE STRIPING
2. EXCEPT AS OTHERWISE SHOWN ON THE PLANS, PAVEMENT MARKERS OF THE TEMPORARY TYPE (TYPE C, D OR H) SHALL BE USED FOR TRAFFIC PATTERNS A AND B. PAYMENT WILL BE MADE UNDER PAY ITEMS FOR MARKERS TYPE CL, DL OR HL, AS APPLICABLE.
3. LOCATION OF PAVEMENT MARKERS IS SHOWN SCHEMATICALLY. FOR EXACT LOCATION OF MARKERS IN RELATION TO STRIPE SEE STANDARD PLANS TE-30, TE-31 & TE-32.

CONSTRUCTION SEQUENCE:

TRAFFIC PATTERN	CONSTRUCT DURING:	IN SERVICE DURING:
(A) (TEMPORARY)	PHASE I	PHASE II
(B) (TEMPORARY)	PHASE II	PHASE III
(C) (PERMANENT)	PHASE III	AFTER COMPLETION OF PHASE III



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 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

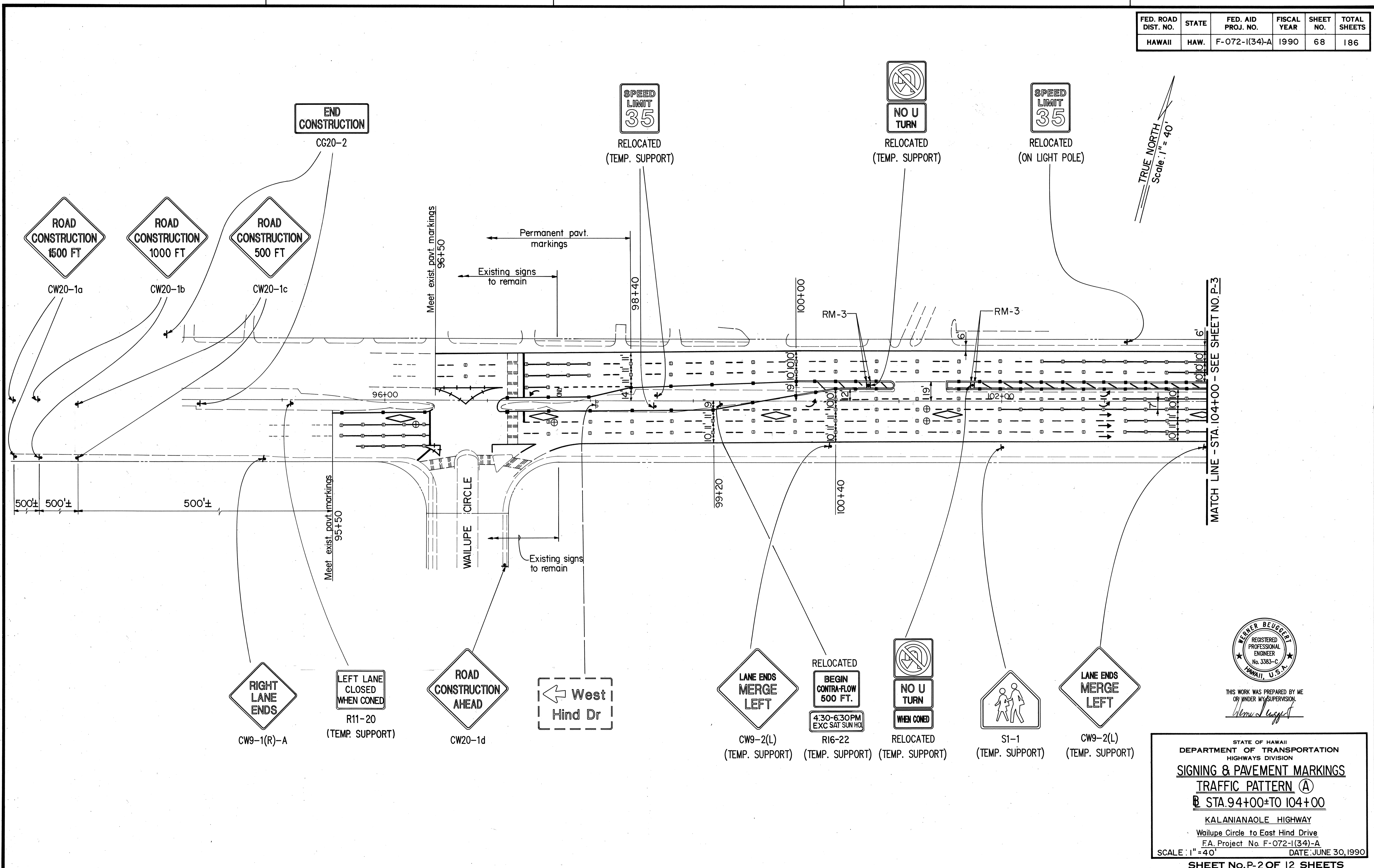
SIGNING & PAVEMENT MARKINGS
LEGEND & NOTES

KALANIANAOLE HIGHWAY
 Wailupe Circle to East Hind Drive
 F.A. PROJECT NO. F-072-1(34)-A

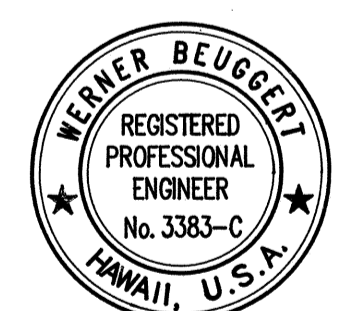
SCALE: _____ DATE: June 30, 1990

SHEET No. P-1 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	68	186



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

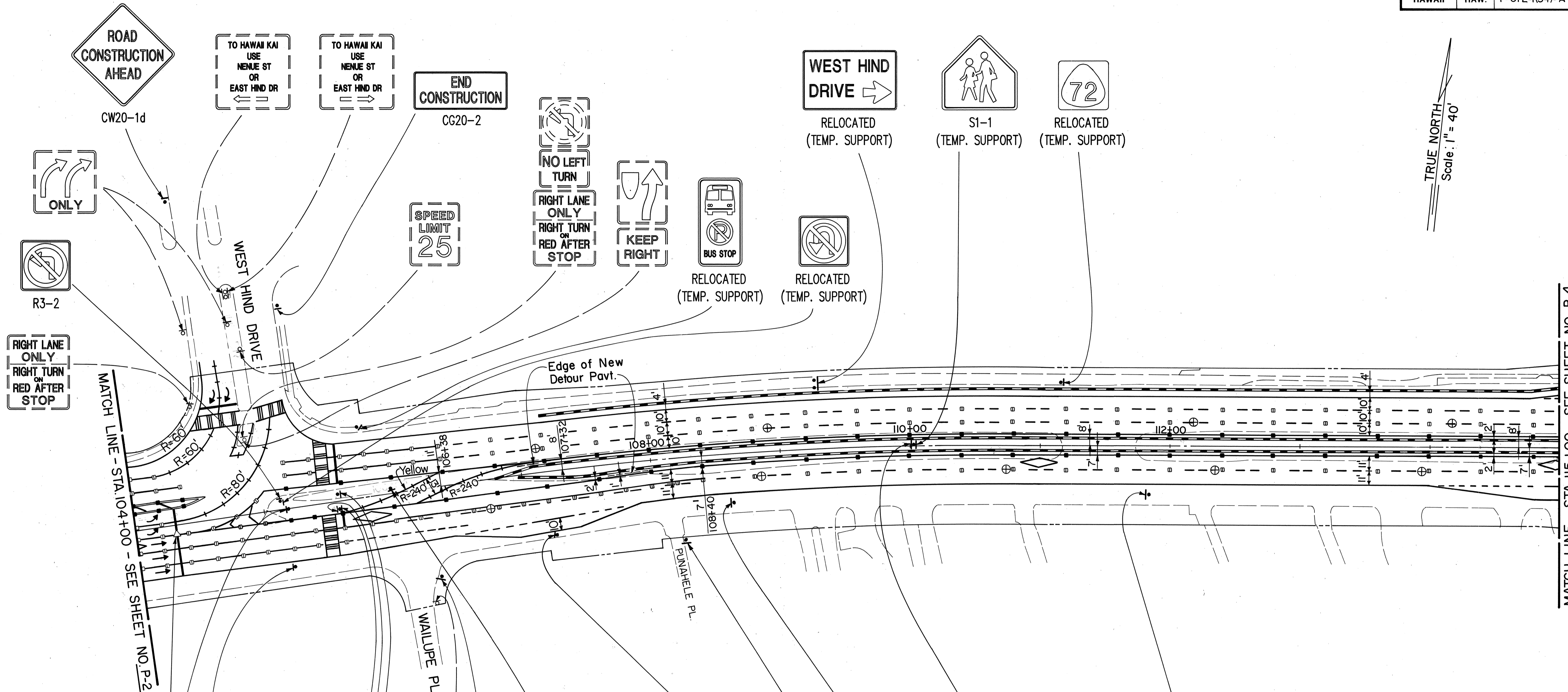


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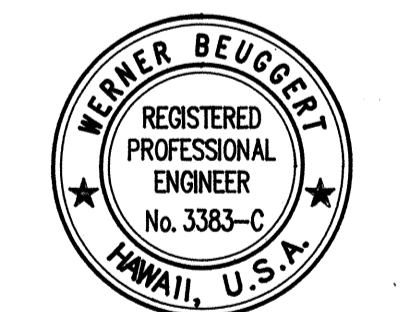
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKINGS
TRAFFIC PATTERN (A)
B STA. 94+00± TO 104+00
 KALANIANA'OLE HIGHWAY
 Wailupe Circle to East Hind Drive
 F.A. Project No. F-072-1(34)-A
 SCALE: 1" = 40' DATE: JUNE 30, 1990
SHEET No. P-2 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	69	186

TRUE NORTH
Scale: 1" = 40'



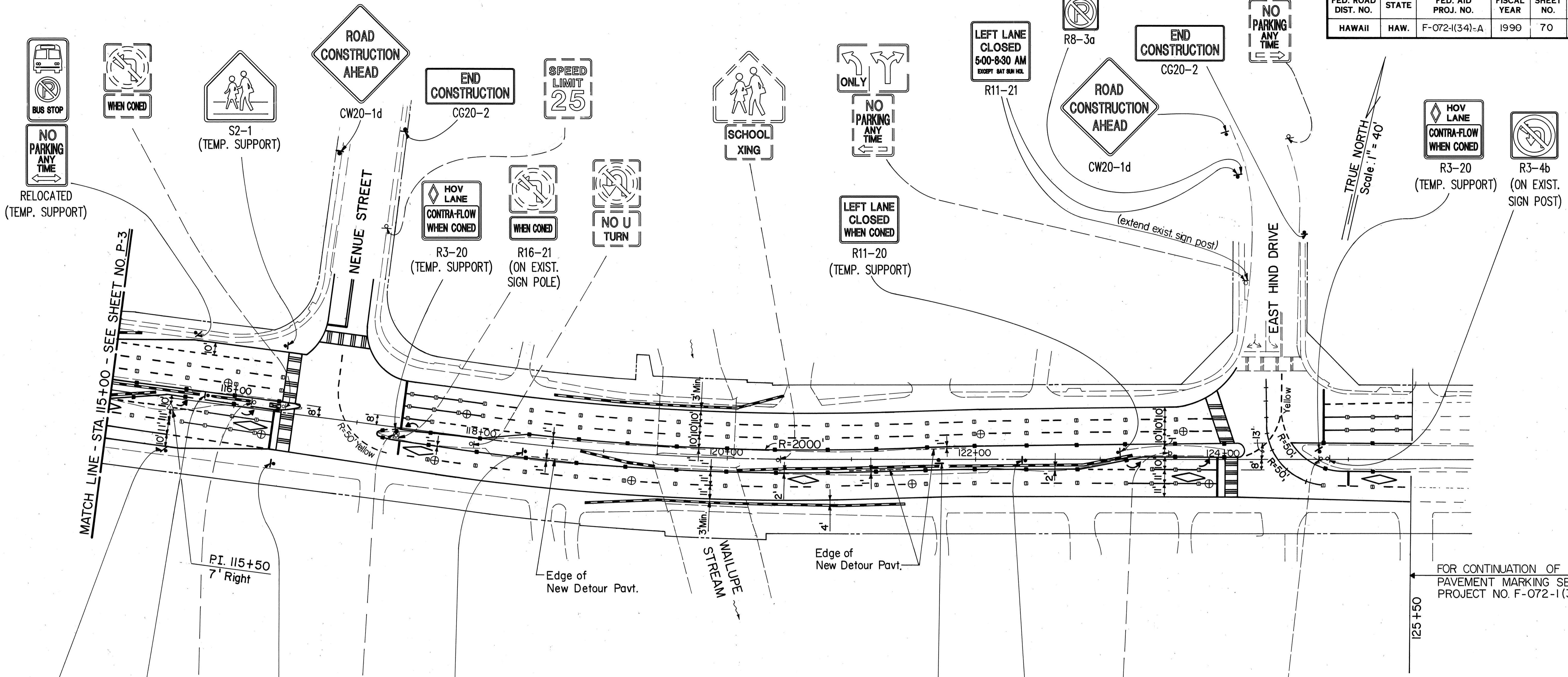
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	



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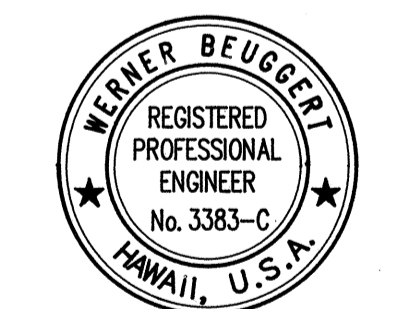
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKINGS
TRAFFIC PATTERN (A)
STA. 104+00 TO 115+00
KALANIANA'OLE HIGHWAY
Waialupe Circle to East Hind Drive
F.A. Project No. F-072-1(34)-A
SCALE: 1" = 40' DATE: JUNE 30, 1990
SHEET No. P-3 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	70	186



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____

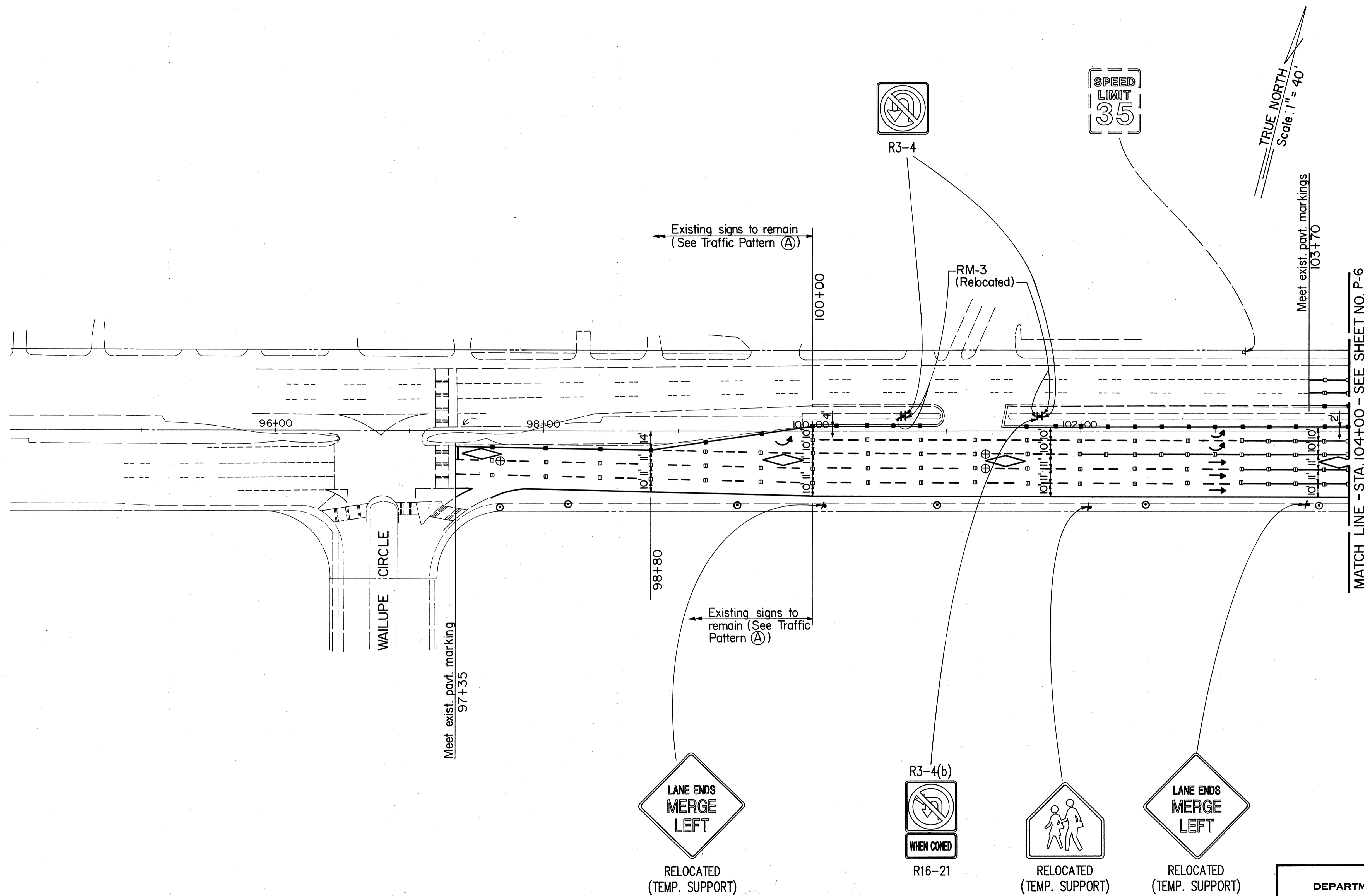
- RELOCATED (TEMP. SUPPORT)
- RELOCATED (TEMP. SUPPORT)
- WHEN CONED
- S2-1 (TEMP. SUPPORT)
- WHEN CONED
- LEFT LANE CLOSED WHEN CONED R11-20 (TEMP. SUPPORT)
- ONE WAY RELOCATED (TEMP. SUPPORT)
- NO LEFT TURN RELOCATED (TEMP. SUPPORT)
- 500-830 AM EXCEPT SAT SUN HDL RELOCATED (TEMP. SUPPORT)
- NO U TURN
- 500-830 AM EXCEPT SAT SUN HDL



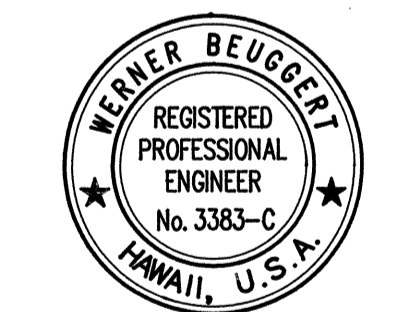
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKINGS
TRAFFIC PATTERN (A)
 @ STA. 115+00 TO 126+00 ±
 KALANIANA'OLE HIGHWAY
 Waialupe Circle to East Hind Drive
 FA Project No. F-072-1(34)-A
 SCALE: 1" = 40' DATE: JUNE 30, 1990
SHEET No. P-4 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	71	186



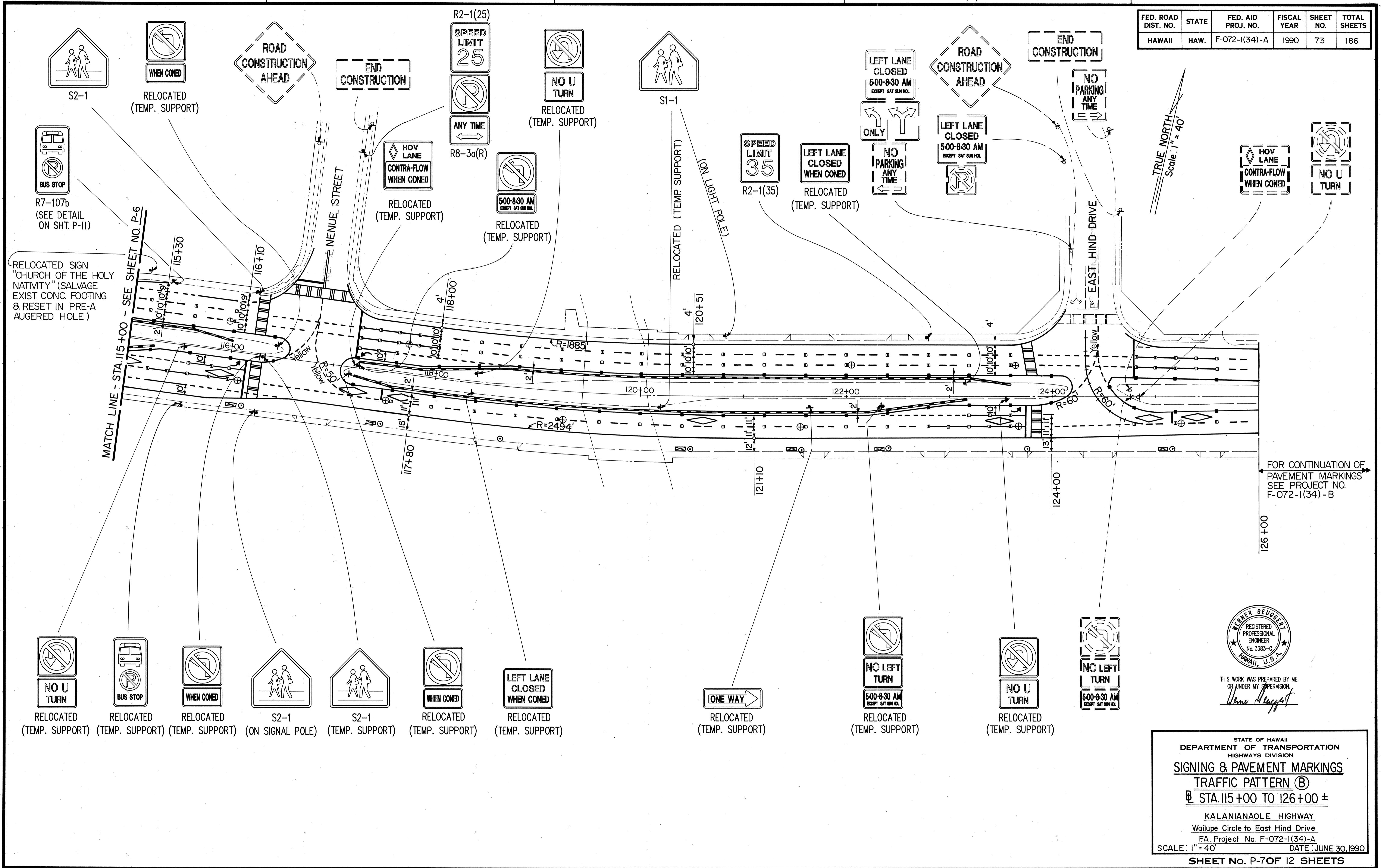
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 SURVEY PLOTTED BY: _____
 ORIGINAL PLAN: _____
 DRAWN BY: _____
 TRACED BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 NO. _____



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKINGS
TRAFFIC PATTERN (B)
B STA. 94+00± TO 104+00
 KALANIANA'OLE HIGHWAY
 Wailupe Circle to East Hind Drive
 FA. Project No. F-072-1(34)-A
 SCALE: 1" = 40' DATE: JUNE 30, 1990
SHEET No. P-5 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	73	186



TRUE NORTH
Scale: 1" = 40'

RELOCATED SIGN "CHURCH OF THE HOLY NATIVITY" (SALVAGE EXIST. CONC. FOOTING & RESET IN PRE-AUGERED HOLE)

FOR CONTINUATION OF PAVEMENT MARKINGS SEE PROJECT NO. F-072-1(34)-B

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

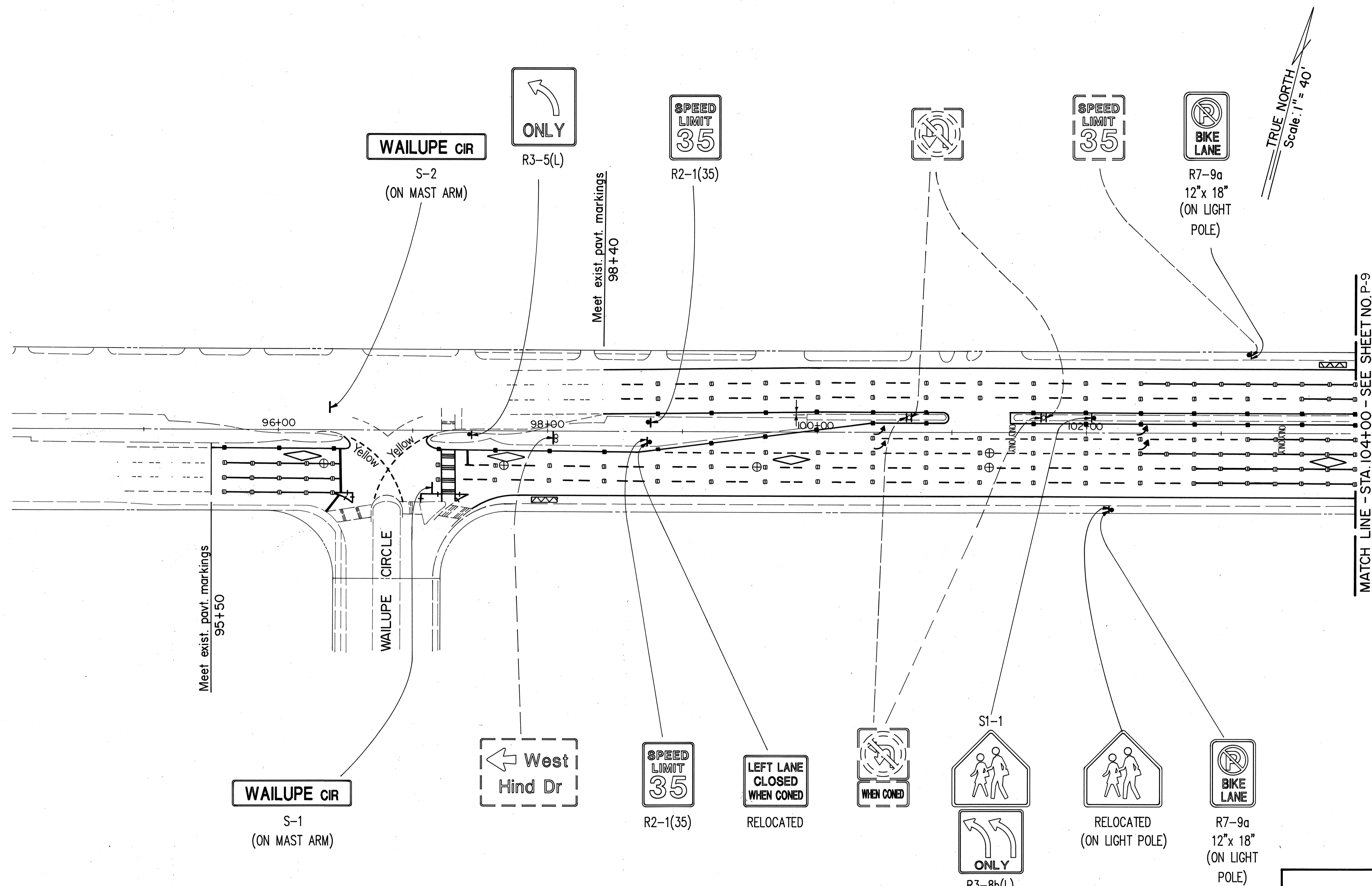
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- RELOCATED (TEMP. SUPPORT)
- RELOCATED (TEMP. SUPPORT)
- S2-1 (ON SIGNAL POLE)
- S2-1 (TEMP. SUPPORT)
- RELOCATED (TEMP. SUPPORT)
- RELOCATED (TEMP. SUPPORT)
- RELOCATED (TEMP. SUPPORT)
- RELOCATED (TEMP. SUPPORT)
- RELOCATED (TEMP. SUPPORT)
- RELOCATED (TEMP. SUPPORT)



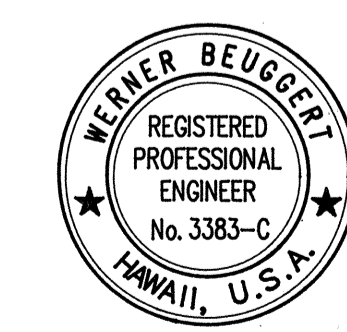
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKINGS
TRAFFIC PATTERN (B)
STA. 115+00 TO 126+00 ±
 KALANIANA'OLE HIGHWAY
 Waiupe Circle to East Hind Drive
 FA Project No. F-072-1(34)-A
 SCALE: 1" = 40' DATE: JUNE 30, 1990
SHEET No. P-7 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	74	186



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

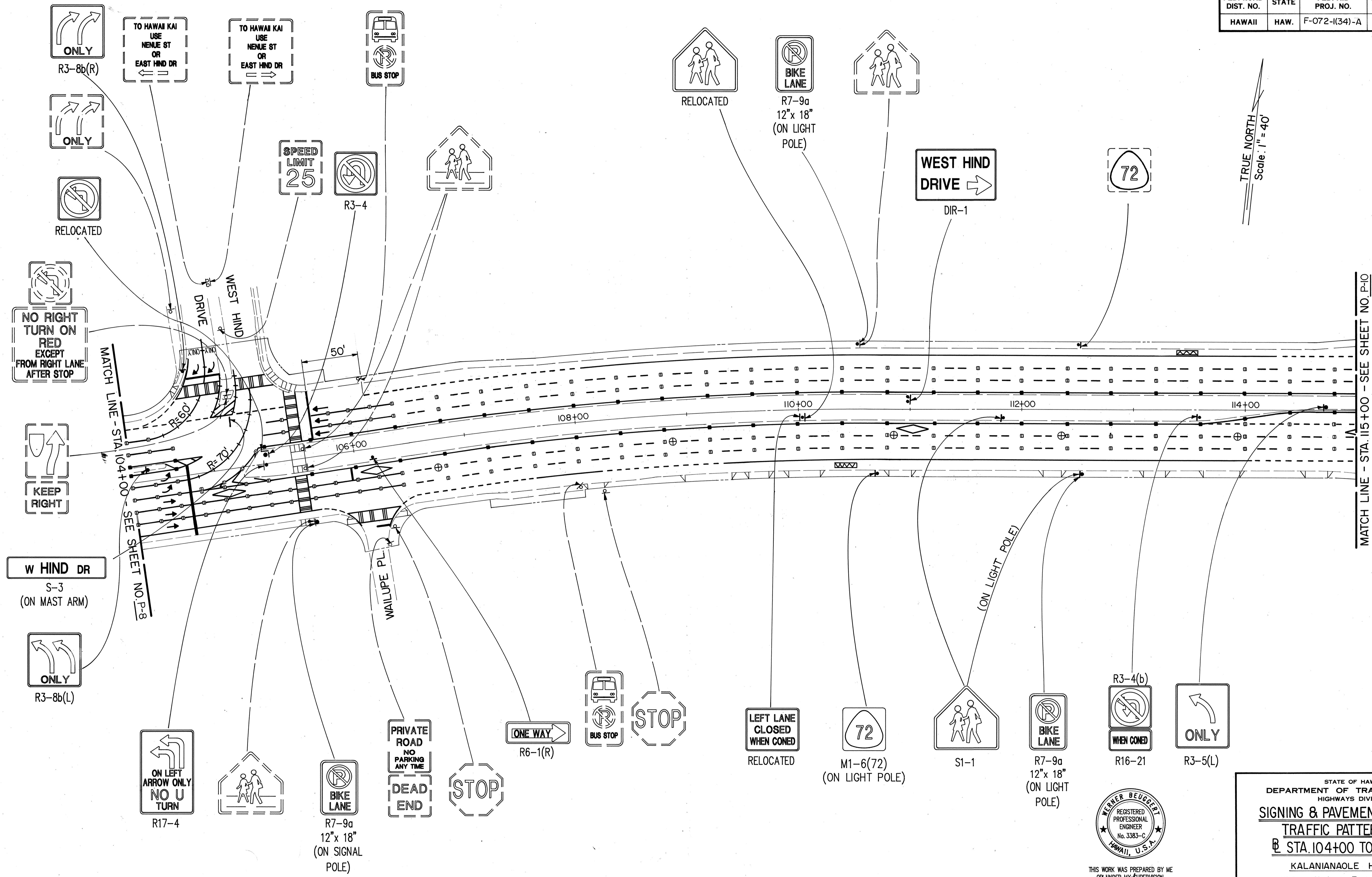


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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKINGS
TRAFFIC PATTERN ©
B STA. 94+00 TO 104+00
 KALANIANA'OLE HIGHWAY
 Wailupe Circle to East Hind Drive
 F.A. Project No. F-072-1(34)-A
 SCALE: 1" = 40' DATE: JUNE 30, 1990
SHEET No. P-8 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	75	186

TRUE NORTH
Scale: 1" = 40'

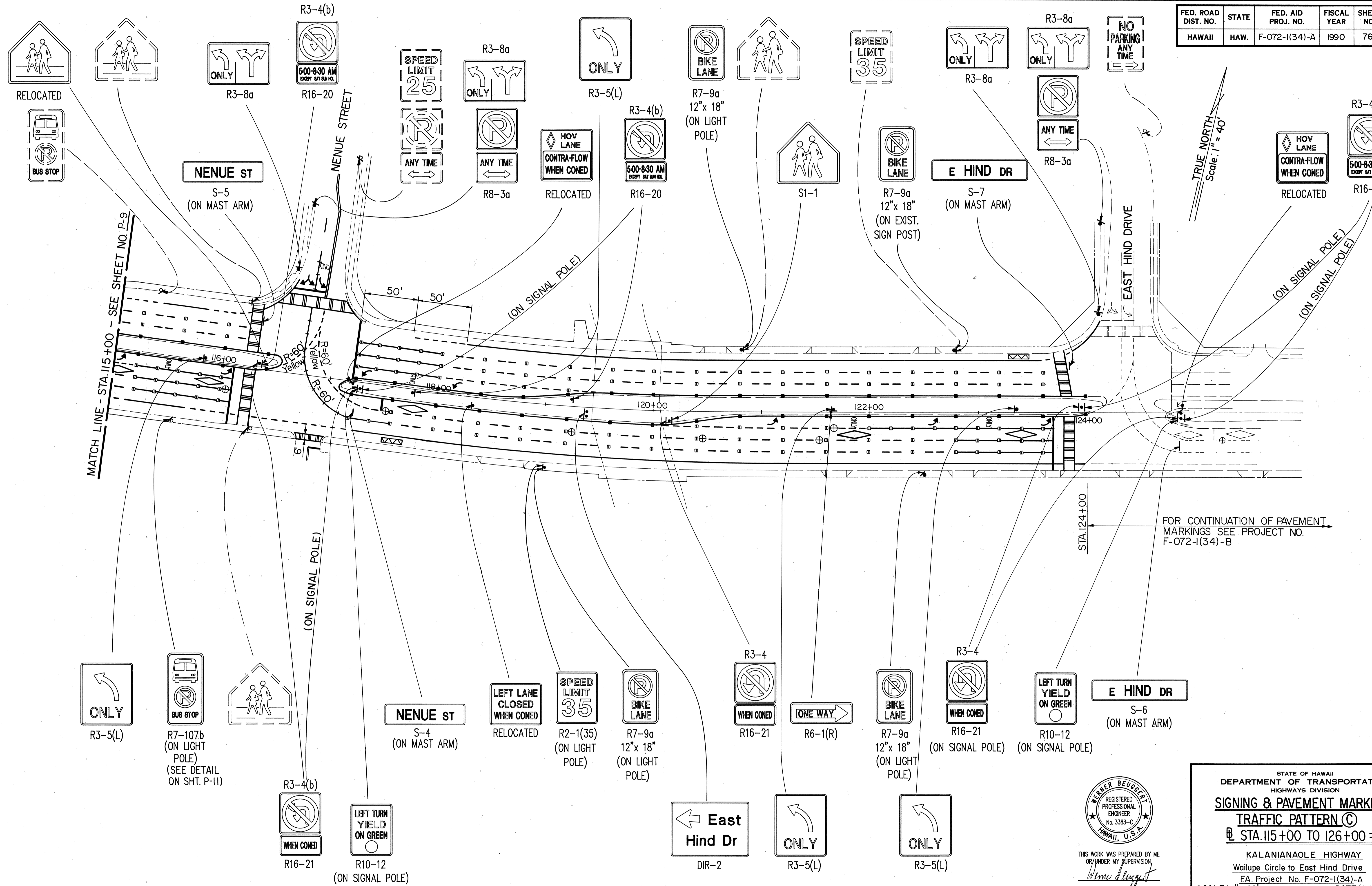


DATE _____
 SURVEY PLOTTED BY _____
 ORIGINAL PLAN _____
 DRAWN BY _____
 TRACED BY _____
 NOTE BOOK _____
 DESIGNED BY _____
 QUANTITIES BY _____
 CHECKED BY _____
 NO. _____

WERNER BEUGEET
 REGISTERED PROFESSIONAL ENGINEER
 No. 3383-C
 HAWAII, U.S.A.
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 OR UNDER MY SUPERVISION.
Werner Beugeet

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKINGS
TRAFFIC PATTERN ©
 STA. 104+00 TO 115+00
 KALANIANA'OLE HIGHWAY
 Wailupe Circle to East Hind Drive
 FA. Project No. F-072-1(34)-A
 SCALE: 1" = 40' DATE: JUNE 30, 1990
SHEET No. P-9 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	76	186



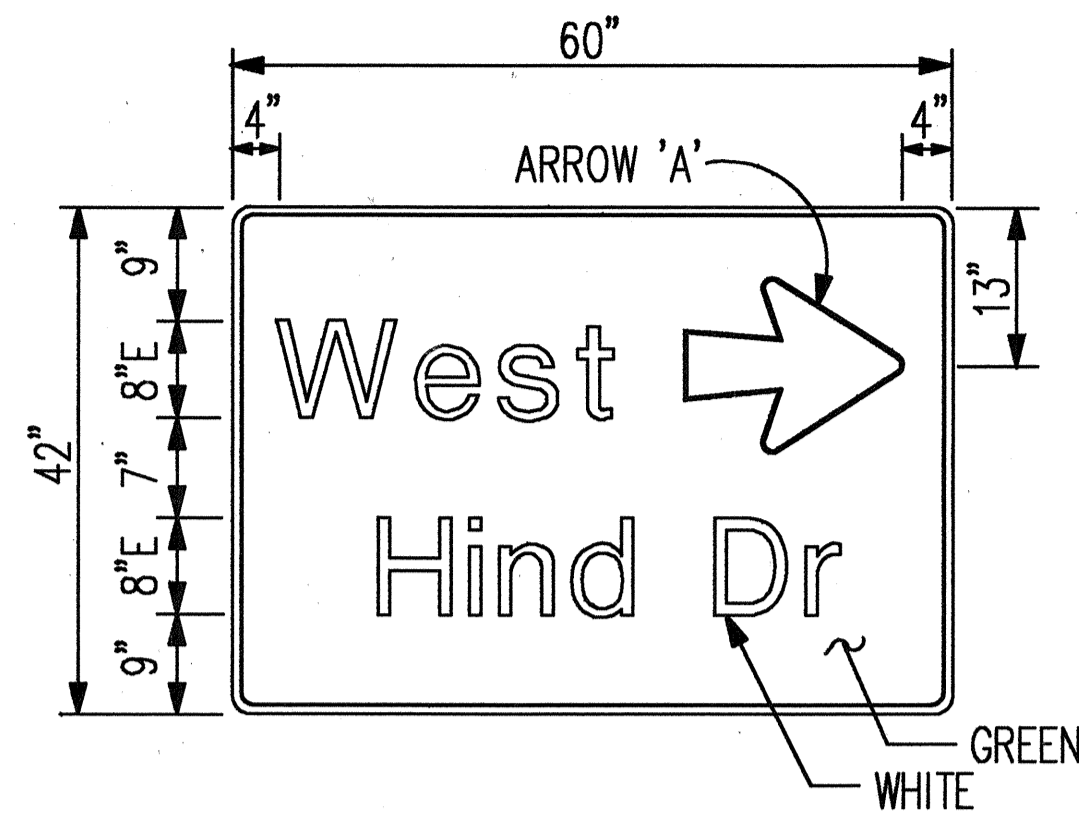
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

REGISTERED PROFESSIONAL ENGINEER
 No. 3383-C
 HAWAII, U.S.A.

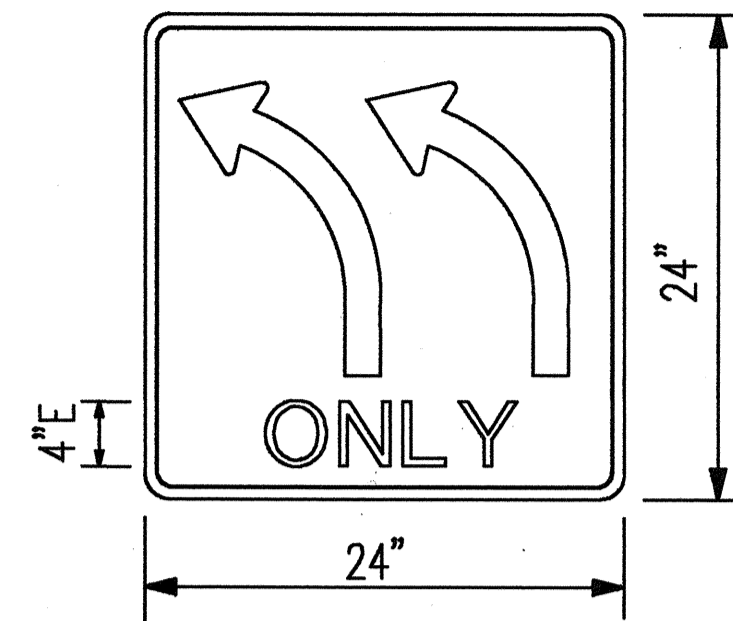
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 OR UNDER MY SUPERVISION
Werner Beugert

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKINGS
TRAFFIC PATTERN (C)
 STA. 115+00 TO 126+00 ±
 KALANIANA'OLE HIGHWAY
 Waiupe Circle to East Hind Drive
 FA Project No. F-072-1(34)-A
 SCALE: 1" = 40' DATE: JUNE 30, 1990
SHEET No. P-10 OF 12 SHEETS

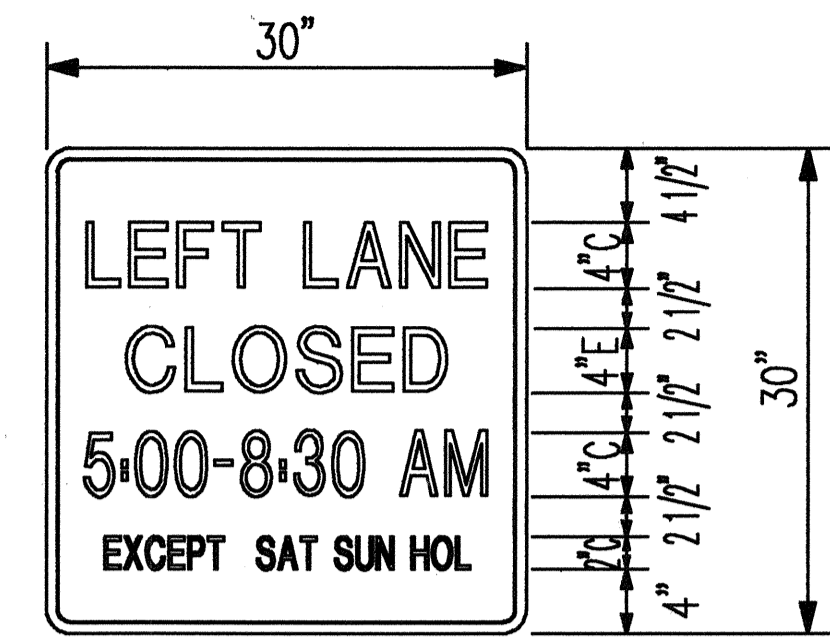
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	77	186



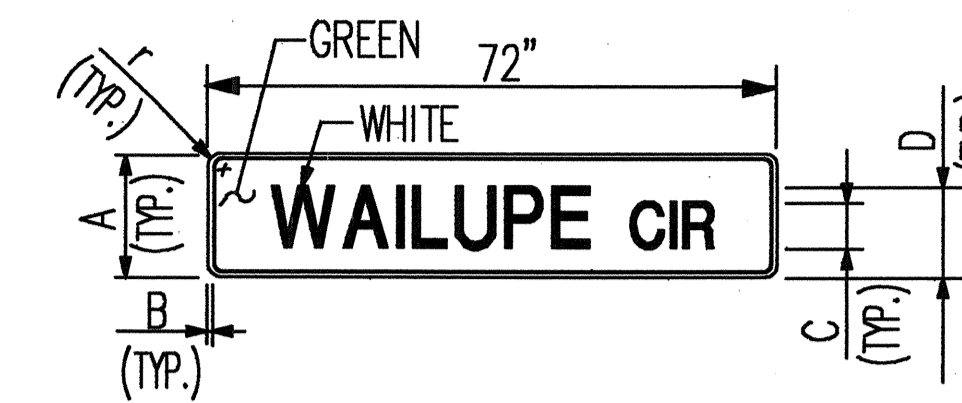
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SCALE: 3/4"=1'-0"



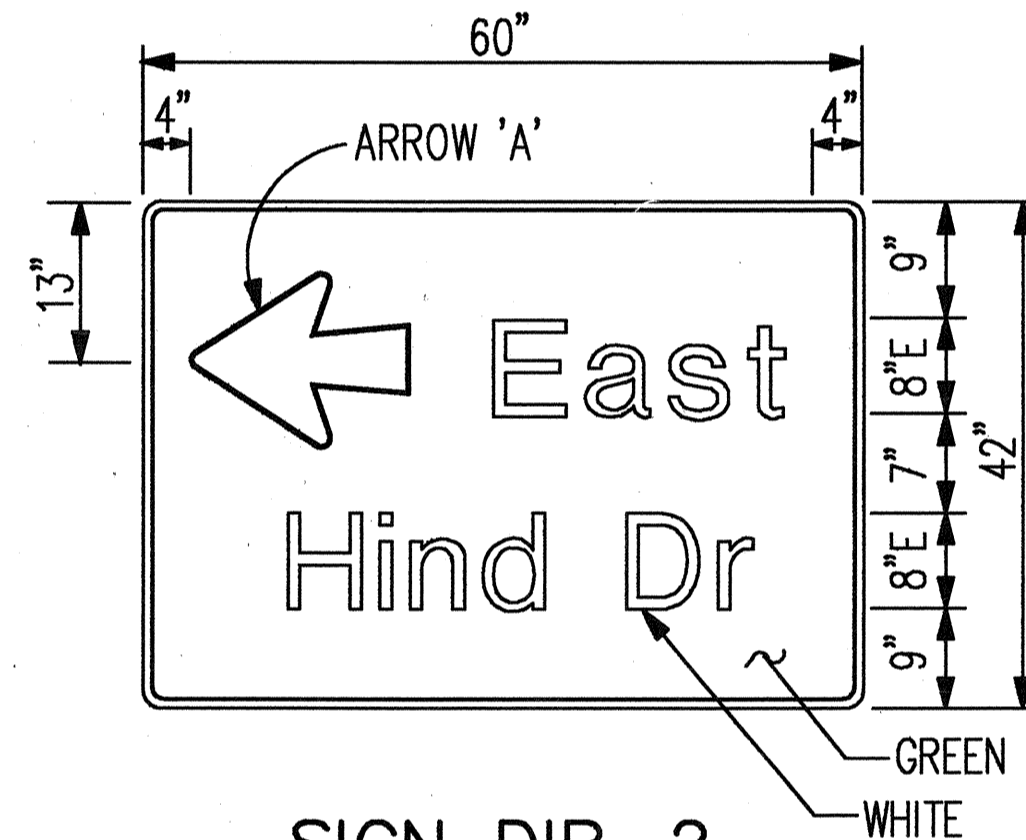
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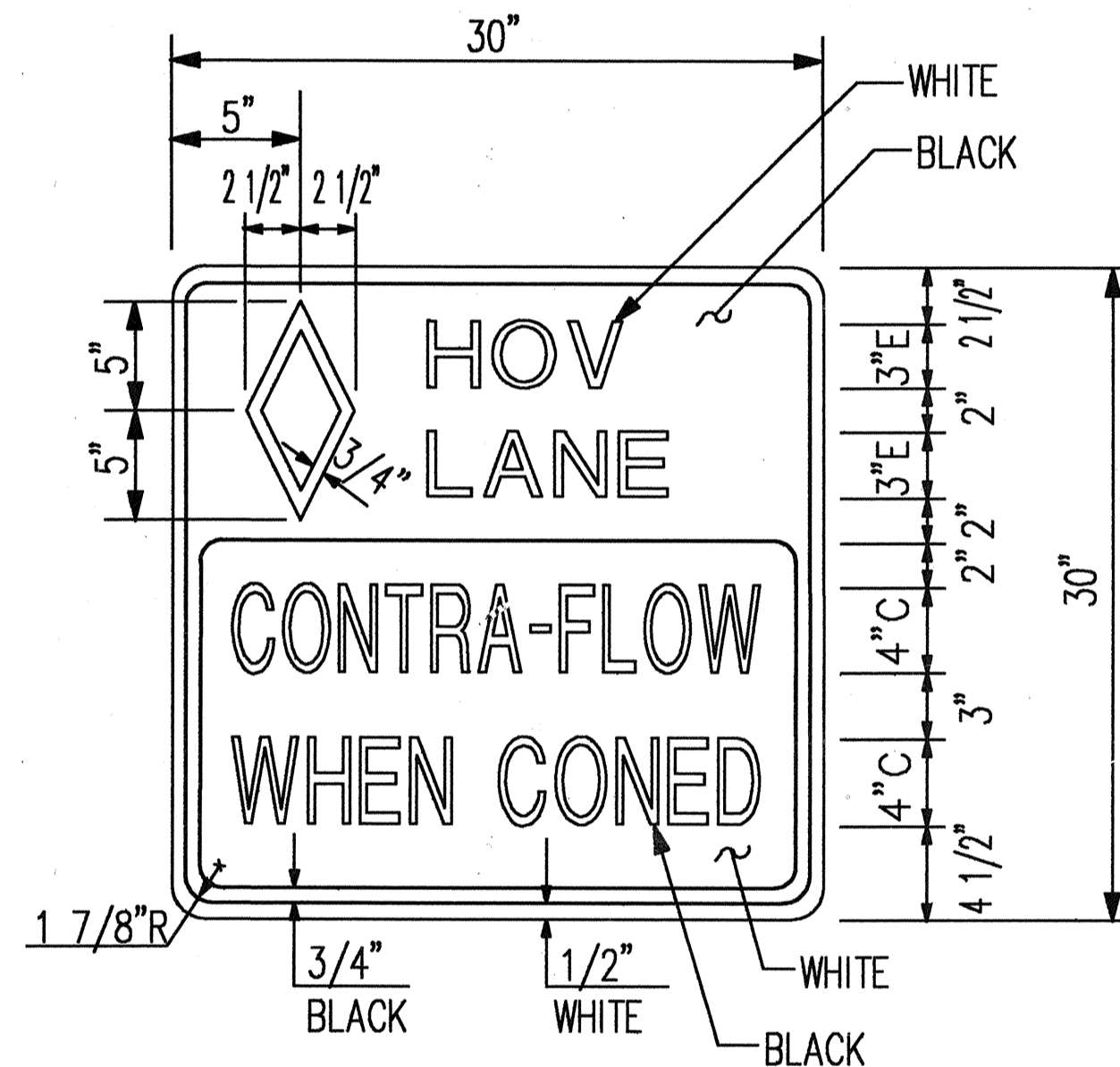
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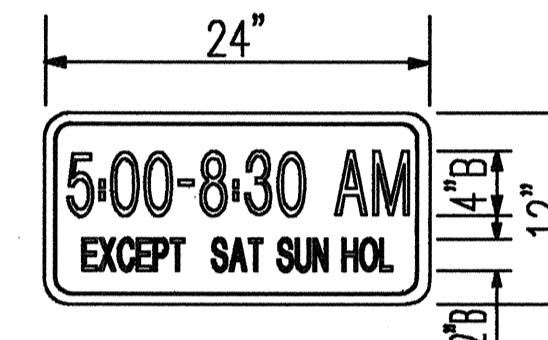
SIGN S-1 & S-2



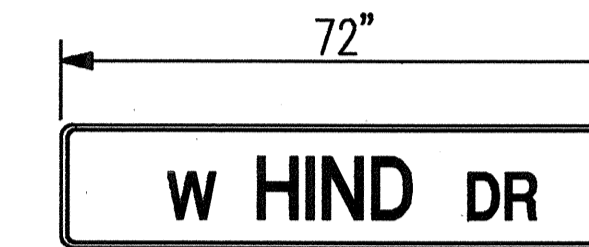
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SCALE: 3/4"=1'-0"



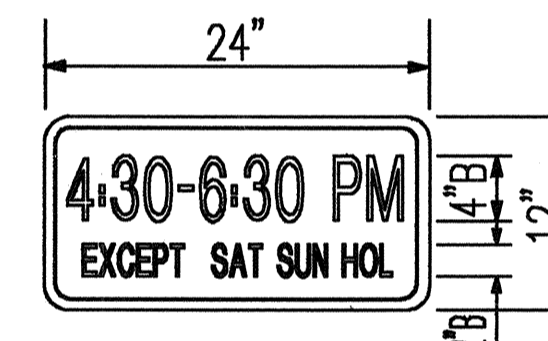
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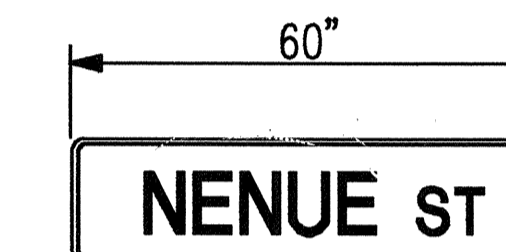
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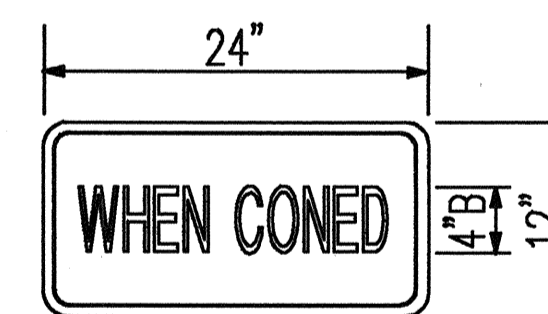
SIGN S-3



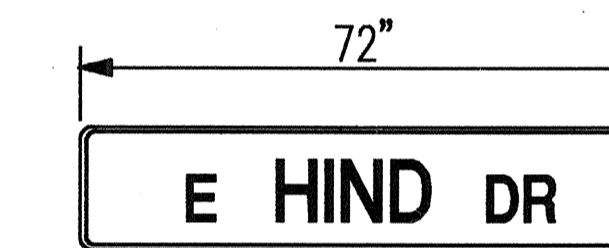
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SCALE: 1"=1'-0"



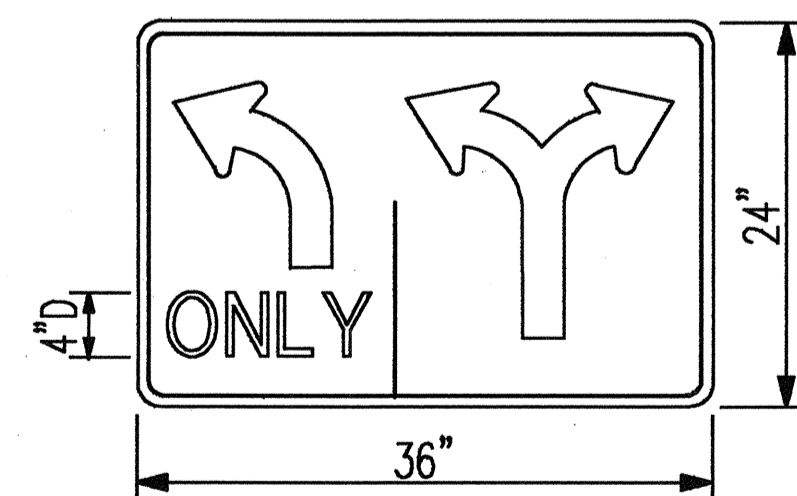
SIGN S-4 & S-5



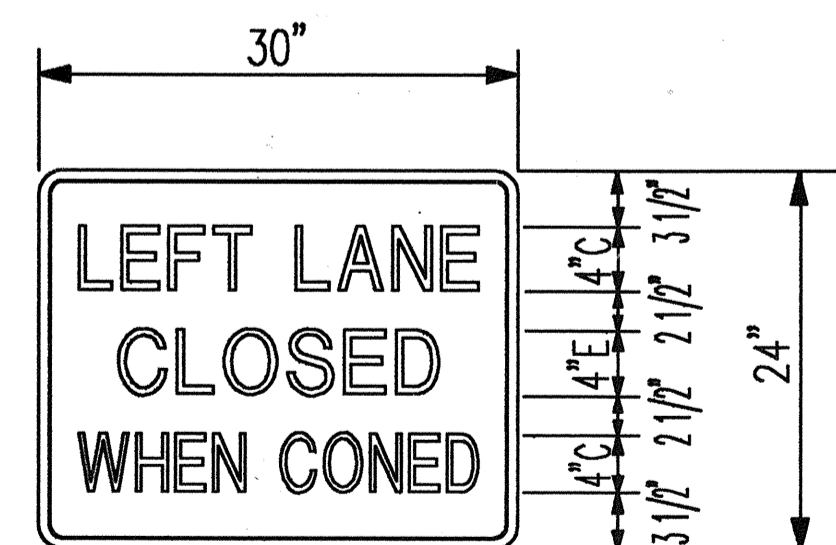
SIGN R16-21
SCALE: 1"=1'-0"



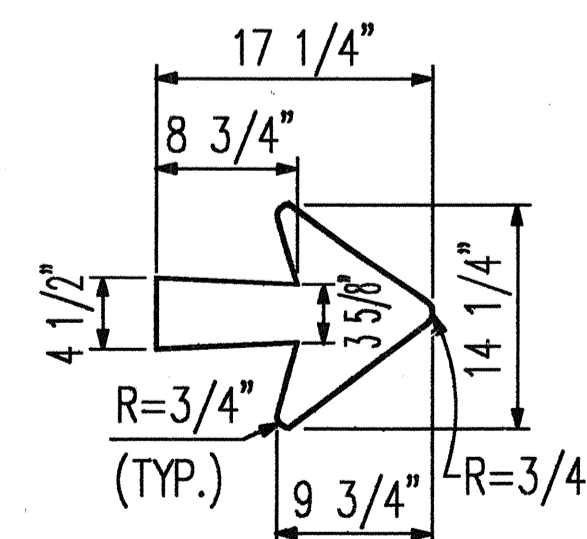
SIGN S-6 & S-7



SIGN R3-8a
SCALE: 1"=1'-0"



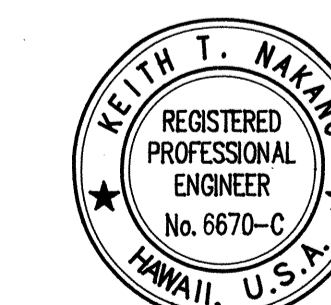
SIGN R11-20
SCALE: 1"=1'-0"



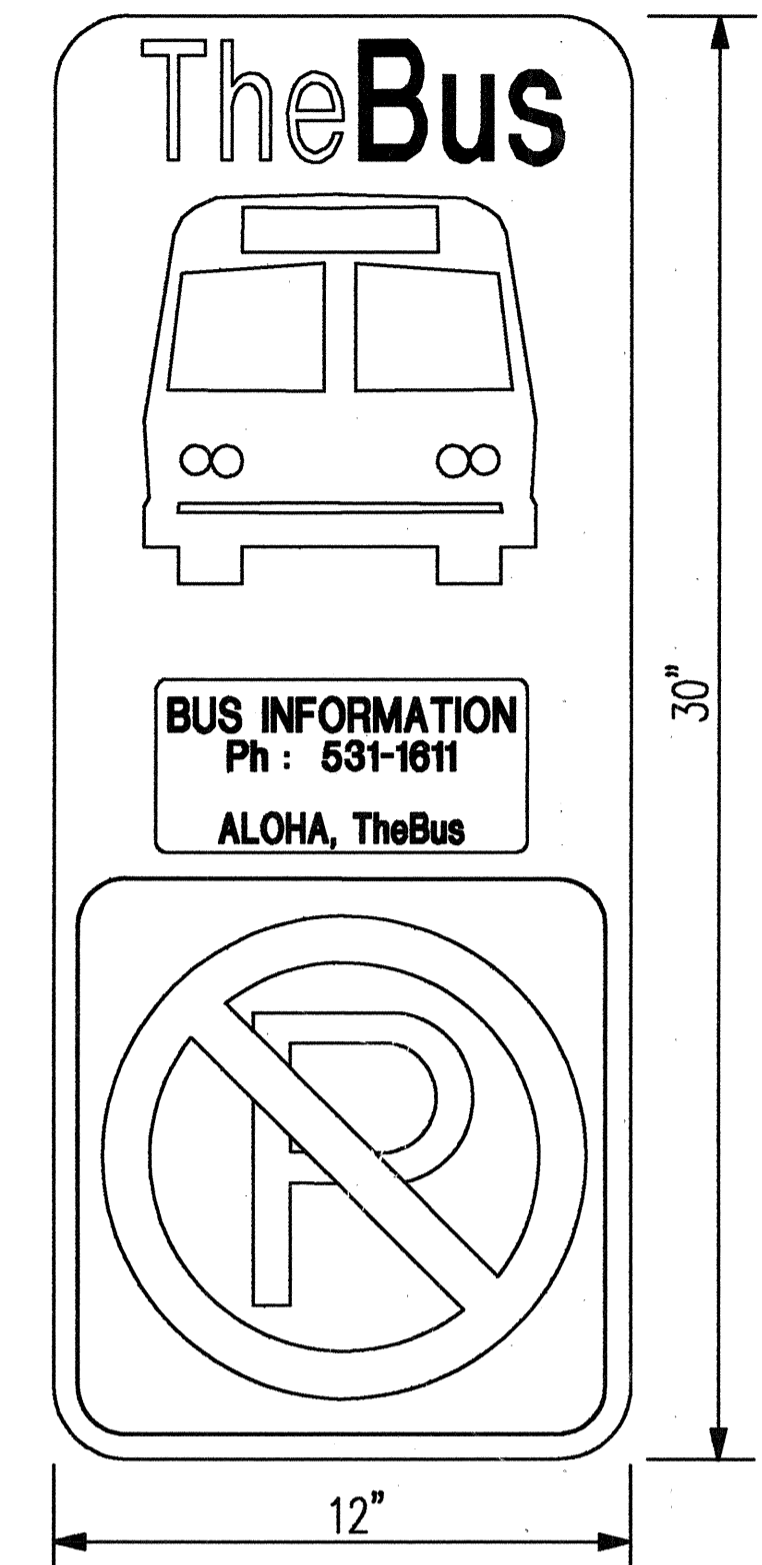
ARROW 'A'
SCALE: 1"=1'-0"

SIGN	DIMENSIONS (INCHES)				
	A	B	C	D	r
STD	16	1/4	6D	8D	3

STREET SIGNS ON TRAFFIC SIGNAL MAST ARMS
NOT TO SCALE



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Keith T. Nakano



SIGN R7-107b
SCALE: 3"=1'-0"

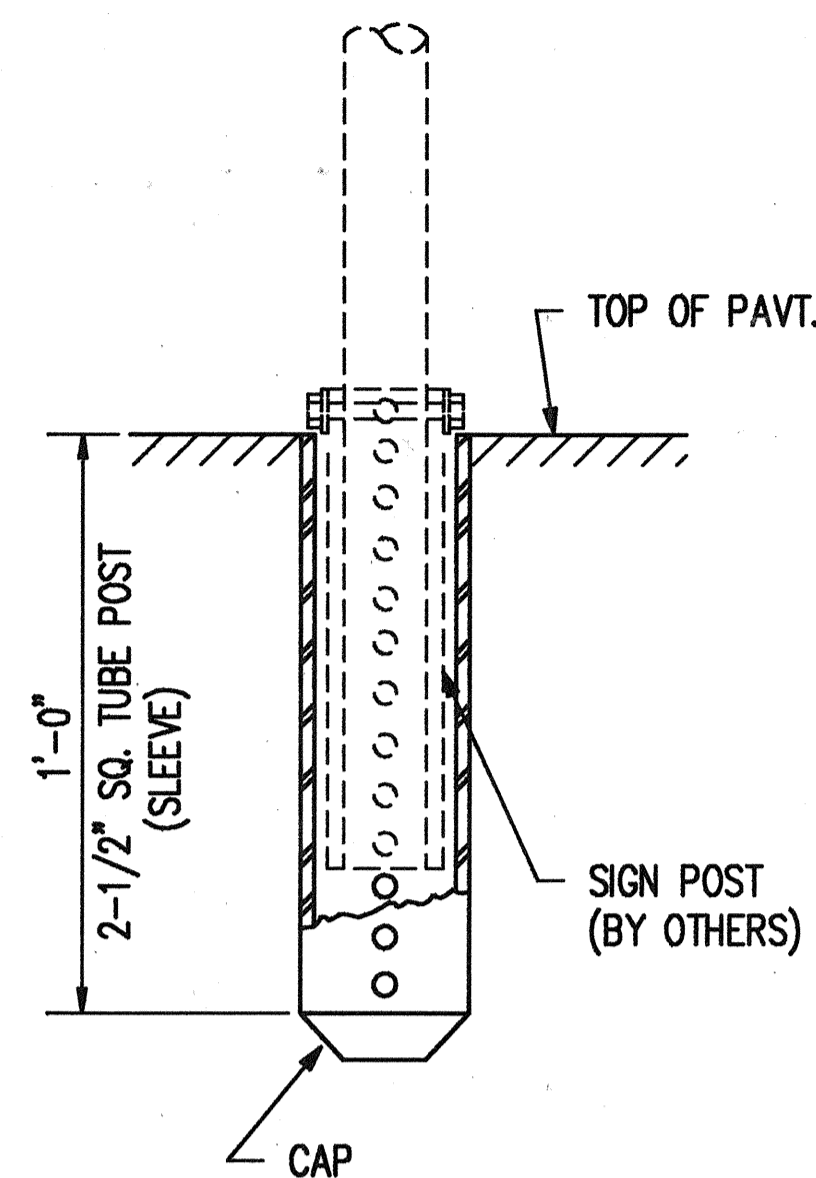
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKINGS
SIGN DETAILS

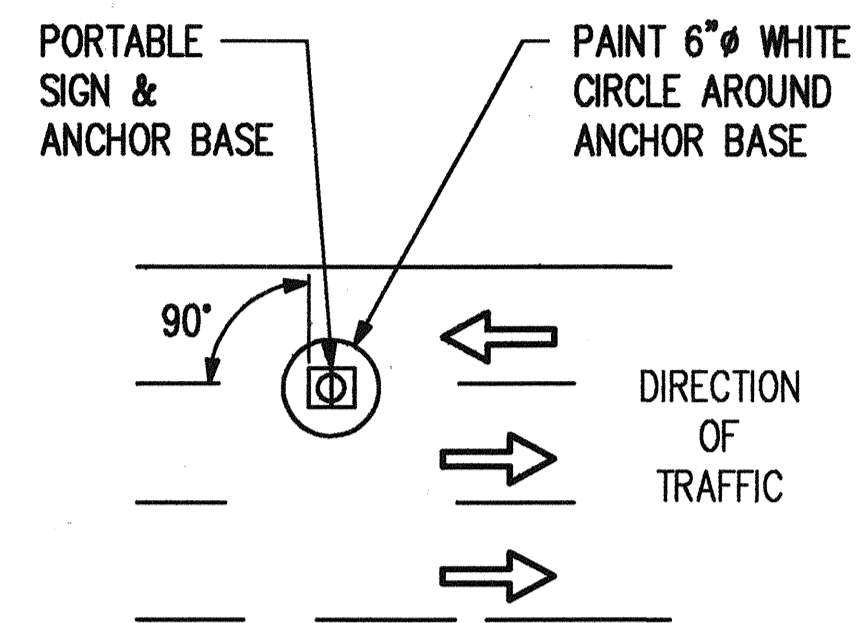
KALANIANA'OLE HIGHWAY
Wailupe Circle to East Hind Drive
F.A. PROJECT NO. F-072-1(34)-A

SCALE: AS SHOWN DATE: June 30, 1990
SHEET No. P-11 OF 12 SHEETS

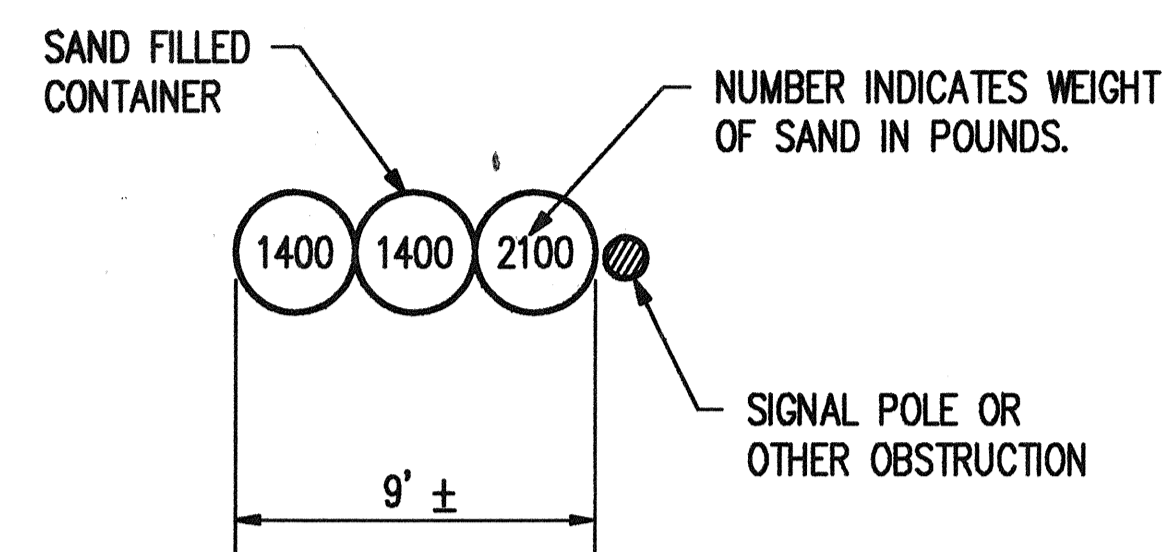
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(34)-A	1990	78	186



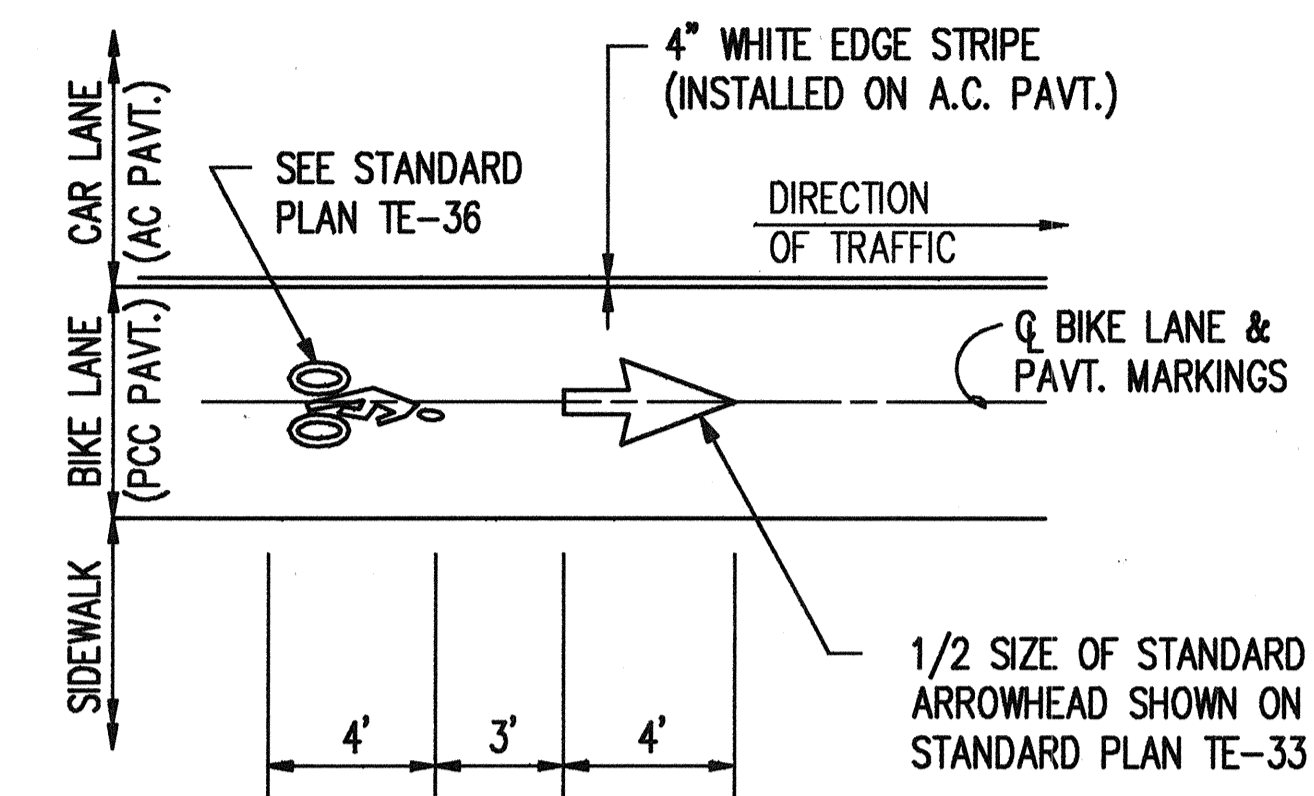
ELEVATION
SCALE: 3" = 1'-0"



PLAN
N.T.S.



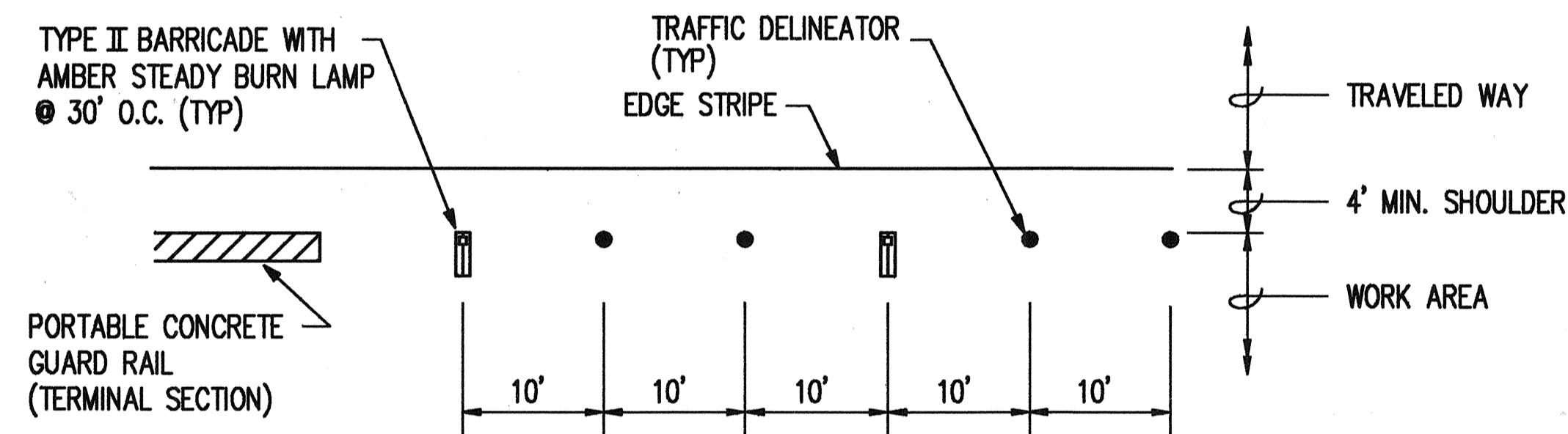
INERTIAL BARRIER SYSTEM
N.T.S.



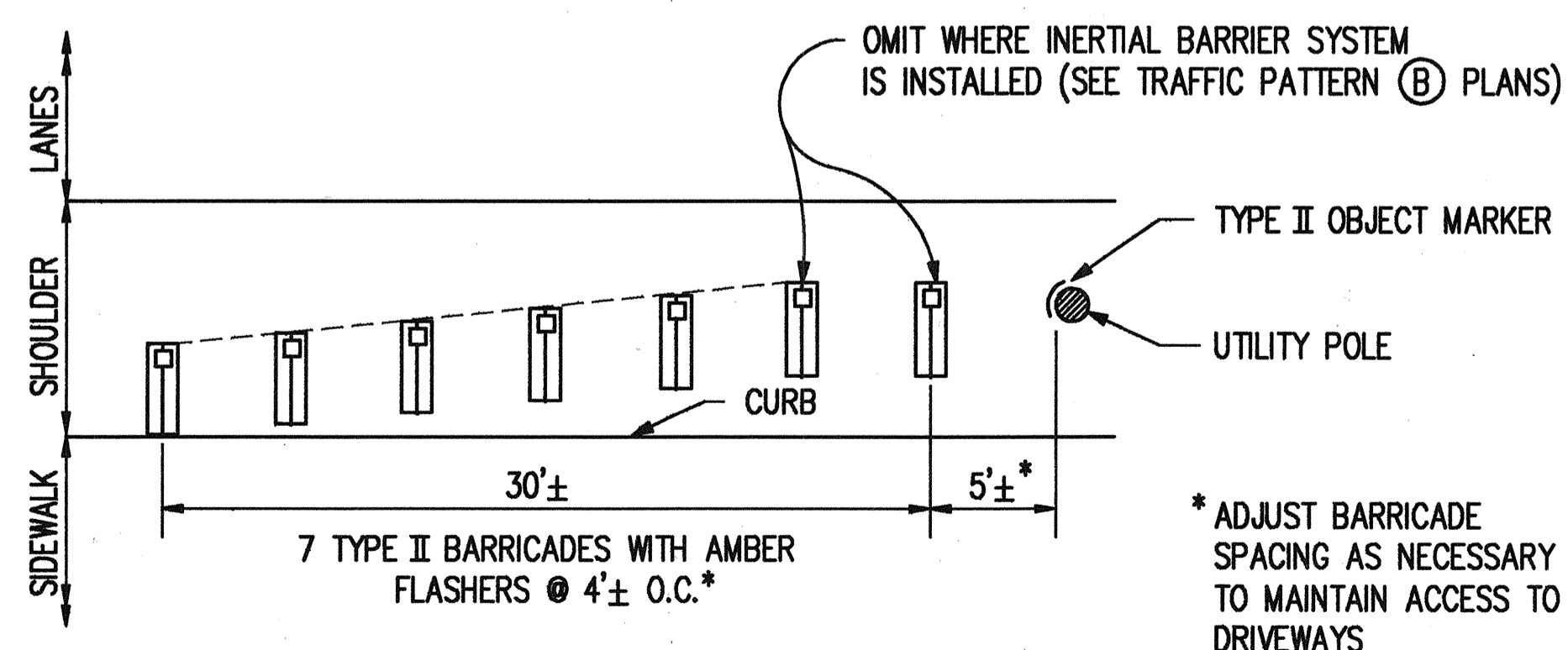
NOTE:
BIKE LANE MARKINGS SHALL BE INSTALLED WHEN ALL UTILITY POLES IN SHOULDER HAVE BEEN REMOVED.

BIKE LANE PAVEMENT MARKING
N.T.S.

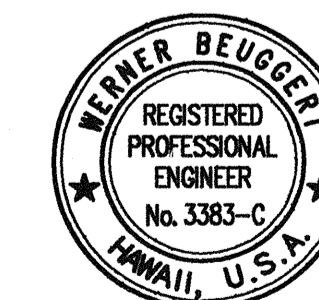
ANCHOR BASE FOR PORTABLE CONTRA-FLOW SIGN



TYPICAL DELINEATION OF SHOULDER FOR TRAFFIC PATTERN (A)
N.T.S.



TYPICAL HAZARD MARKING OF UTILITY POLES IN SHOULDER FOR TRAFFIC PATTERNS (B)&(C)
N.T.S.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Werner Beugell

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKINGS
MISCELLANEOUS DETAILS

KALANIANA'OLE HIGHWAY
Wailupe Circle to East Hind Drive
E.A. PROJECT NO. F-072-1(34)-A

SCALE: AS SHOWN DATE: June 30, 1990
SHEET No. P-12 OF 12 SHEETS