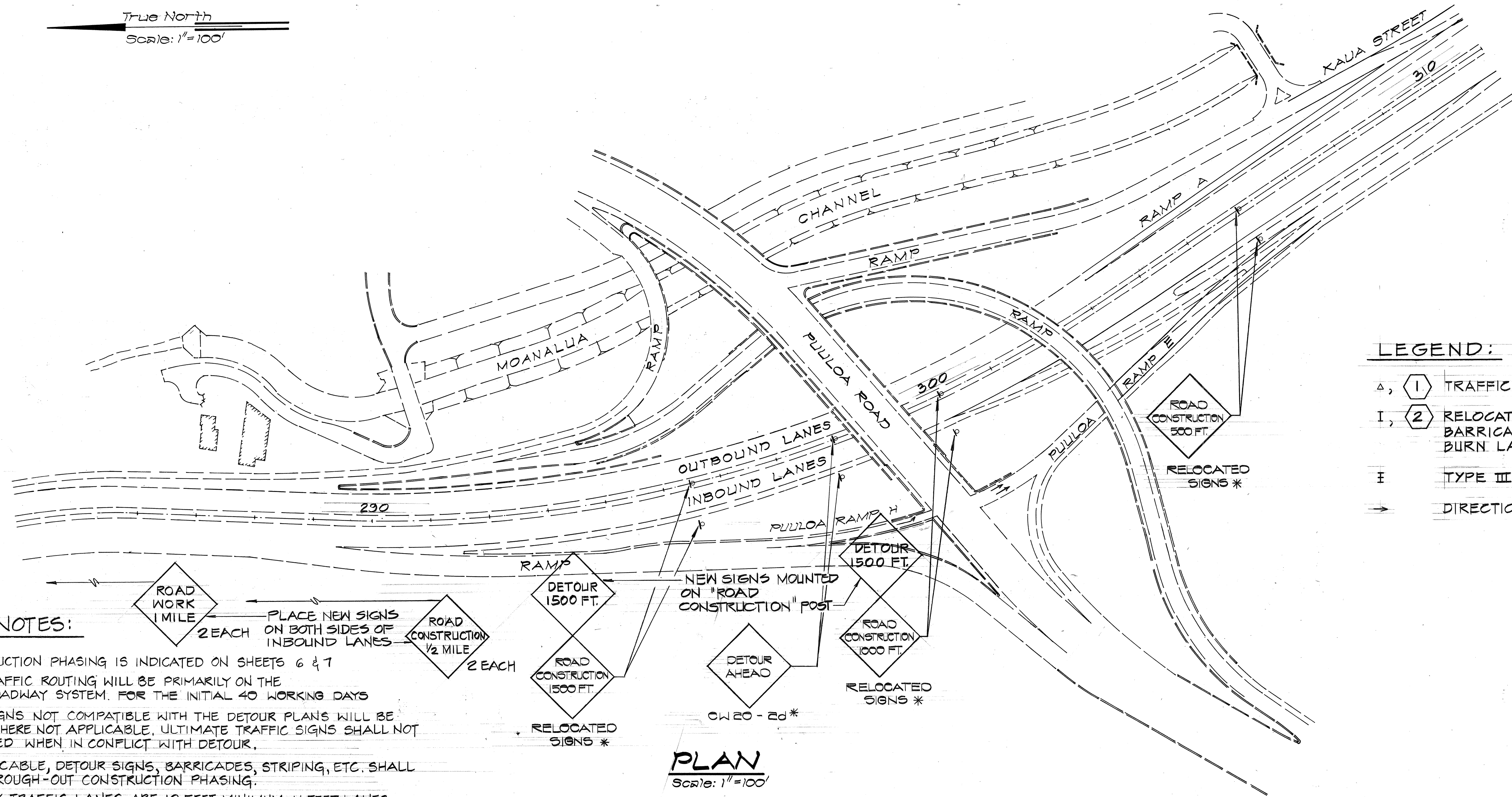


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(10)	1978	GG	266

True North
Scale: 1"=100'



LEGEND:

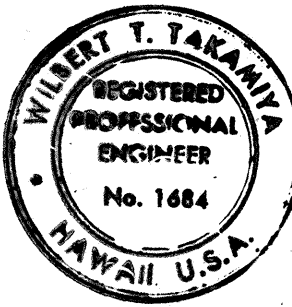
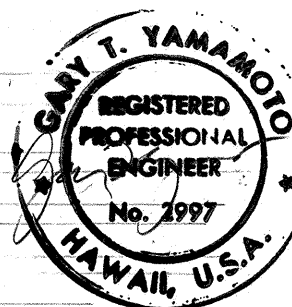
- △, ① TRAFFIC DELINEATORS
- I, ② RELOCATED PLASTIC MOLDED BARRICADES TYPE II W/ STEADY BURN LAMP.
- ≡ TYPE III BARRICADES
- DIRECTION OF TRAFFIC & NUMBER OF LANES

GENERAL NOTES:

- THE CONSTRUCTION PHASING IS INDICATED ON SHEETS 6 & 7
- PHASE I TRAFFIC ROUTING WILL BE PRIMARILY ON THE EXISTING ROADWAY SYSTEM. FOR THE INITIAL 40 WORKING DAYS
- EXISTING SIGNS NOT COMPATIBLE WITH THE DETOUR PLANS WILL BE REMOVED WHERE NOT APPLICABLE. ULTIMATE TRAFFIC SIGNS SHALL NOT BE INSTALLED WHEN IN CONFLICT WITH DETOUR.
- WHEN APPLICABLE, DETOUR SIGNS, BARRICADES, STRIPING, ETC. SHALL REMAIN THROUGH-OUT CONSTRUCTION PHASING.
- TEMPORARY TRAFFIC LANES ARE 10 FEET MINIMUM, 11 FEET LANES REQUIRED FOR RIGHT AND FOR LEFT LANES WITH ADJACENT ONCOMING TRAFFIC.
- SIGN POSTS NUMBER OF POSTS, ETC. TO CONFORM WITH THE APPLICABLE GENERAL NOTES IN STANDARD DETAILS.
- TRAFFIC DELINEATORS AND BARRICADE WARNING LIGHTS TO CONFORM WITH THE REQUIREMENTS IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
- UNLESS OTHERWISE DIRECTED UPON COMPLETION OF CONSTRUCTION, SIGNS, BARRICADES, ETC. BECOME THE PROPERTY OF THE STATE.
- WHERE TEMPORARY MARKING OF PERMANENT PAVEMENT IS REQUIRED THE LAST LIFT OF ASPHALT CONC. MIX III AND MIX V, SHALL BE OMITTED.
- PRIOR TO PAVEMENT OF LEVELING COURSE OR FINAL LIFT, BROOMING OFF AND TACK COAT REQUIRED OVER ULTIMATE ROADWAY AREAS PREVIOUSLY USED FOR DETOUR TRAFFIC.
- CONTRACTOR MAY USE PORTABLE OR TEMPORARY POSTS FOR CONSTRUCTION AND MAINTENANCE OF THE SIGNS WITH THE APPROVAL OF THE ENGINEER.
- UNLESS OTHERWISE DIRECTED, CONTRACTOR SHALL REUSE TRAFFIC DELINEATORS OF GOOD CONDITION. ALL COST SHALL BE INCIDENTAL TO ITEM 644.1000 TRAFFIC DELINEATORS.

GENERAL NOTES: CONT.

- PAYMENT FOR FURNISHING ALL MATERIALS AND PERFORMING ALL WORK THAT DO NOT HAVE APPLICABLE CONTRACT ITEMS WILL BE ON A FORCE ACCOUNT BASIS AND WILL BE PAID UNDER ITEM NO. 104.0500 CONSTRUCTION AND MAINTENANCE OF DETOURS.
- BARRICADES, CONSTRUCTION SIGNS, AND PORTABLE CONC. GUARD RAILS SHOWN AS "RELOCATED" SHALL BE FURNISHED BY THE STATE. CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR INSTALLATION AND MAINTENANCE.
- 4" WHITE (TAPE) SHALL BE PAID FOR UNDER WORK ITEM NO. 629.1010 PAVEMENT STRIPING.
- SIGNS SHOWN WITH "*" TO BE USED IN PHASE I OR AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL PERIODICALLY, AS DEEMED NECESSARY BY THE ENGINEER, WASH DOWN DETOUR SIGNS, DELINEATORS, BARRICADES ETC. THIS WORK WILL BE PAID ON A FORCE ACCOUNT BASIS UNDER ITEM NO. 104.0500 CONSTRUCTION AND MAINTENANCE OF DETOURS.



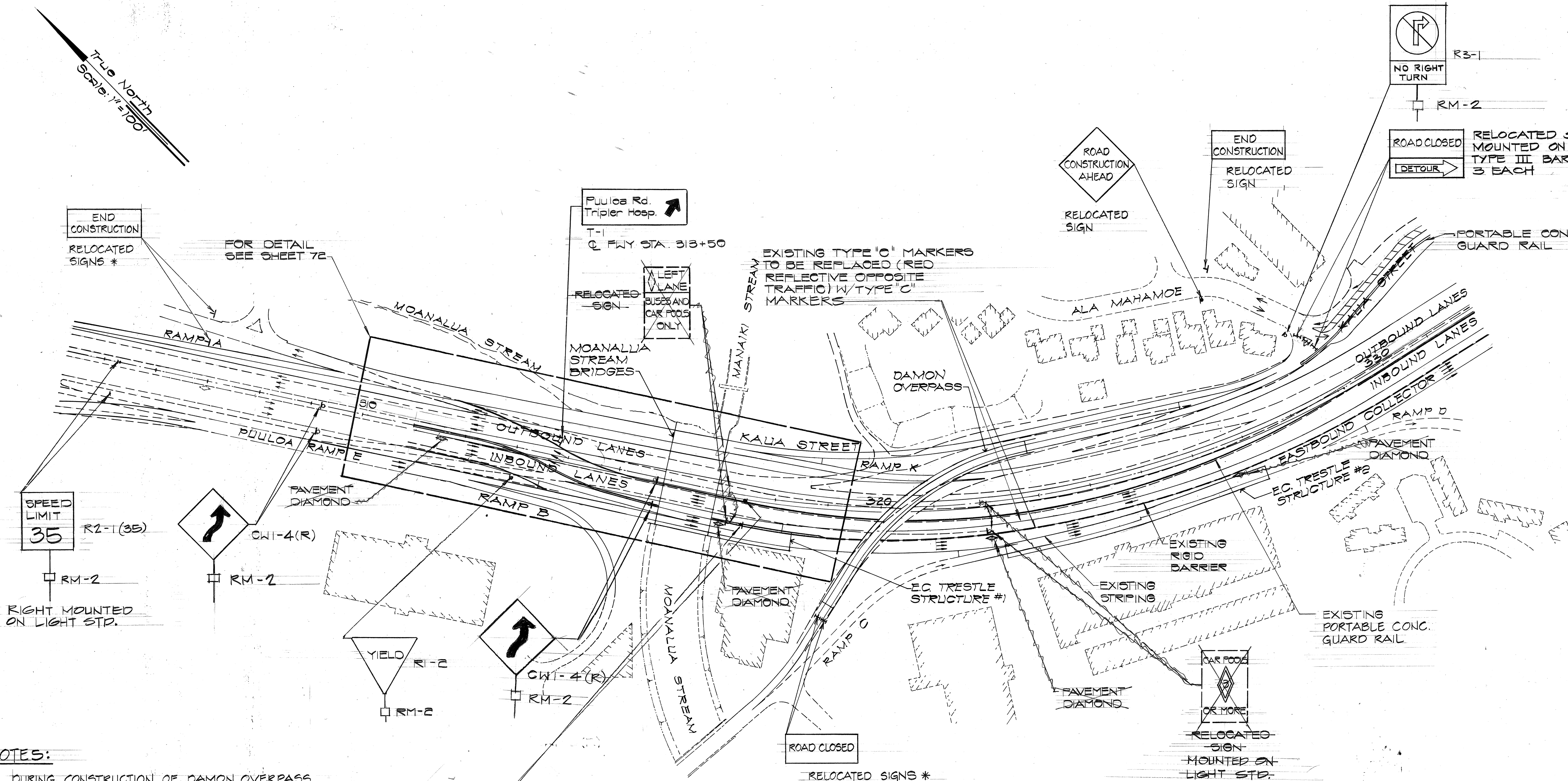
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

3/6/79	ADDITIONAL CONSTRUCTION SIGNS
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PHASE I & II	
CONSTRUCTION DETOUR	
MOANALUA ROAD PULLOA I.C. TO MIDDLE ST.-UNIT 3A F.A. Proj. NO. TQ-F-078-1(10)	
SCALE: AS SHOWN	DATE: NOV. 15, 1978
SHEET NO. 1 OF 2 SHEETS	

ADD66

100' Master ①

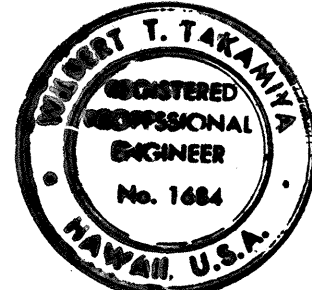
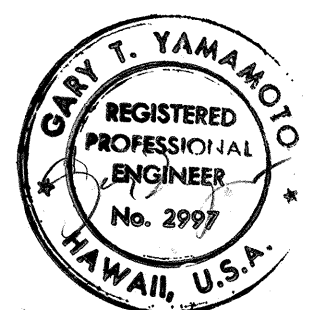
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-K(18)	1978	67	266



NOTES:

1. DURING CONSTRUCTION OF DAMON OVERPASS PIER #1 PILE CAP AND PIER #2 PILE CAP, CONTRACTOR SHALL ENSURE ADEQUATE SAFETY MEASURES FOR TRAFFIC IN BOTH DIRECTIONS. THIS SHALL INCLUDE BUT NOT LIMITED TO PORTABLE CONCRETE BARRIERS, TRAFFIC DELINEATORS, ADVANCE WARNING SIGNS, ETC. IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. FOR CONSTRUCTION PHASING AND MIN. WINDOW OPENINGS SEE SHT. 7
2. CONSTRUCTION OF KALIA ST. AT ALA MAHAMOE ST. TO PORT SHAFER ROAD WILL BE DONE IN STAGES SO AS TO MAINTAIN TWO DIRECTIONAL TRAFFIC AT ALL TIMES.

PLAN
Scale: 1"=100'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

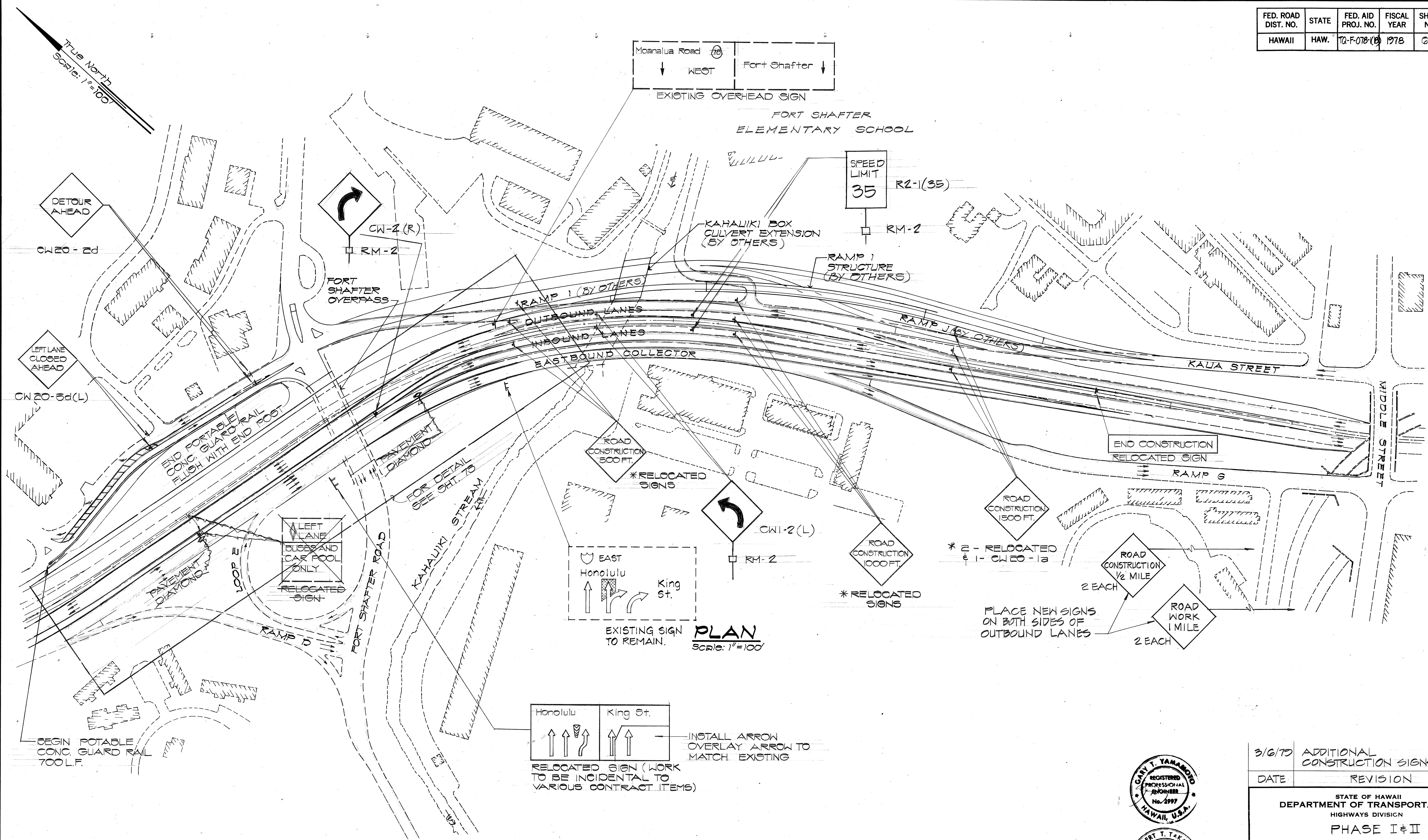
PHASE I & II
CONSTRUCTION DETOUR

MOANALUA ROAD
PUULOA I.C. TO MIDDLE ST. UNIT 3A
P.A. Proj. No. TQ-F-078-K(18)
SCALE: AS SHOWN DATE: NOV. 19, 1978

SHEET NO. 2 OF 6 SHEETS

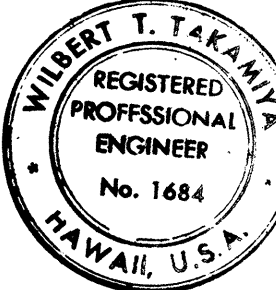
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10-F-078-1(8)	1978	68	266



PLAN
Scale: 1"=100'

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

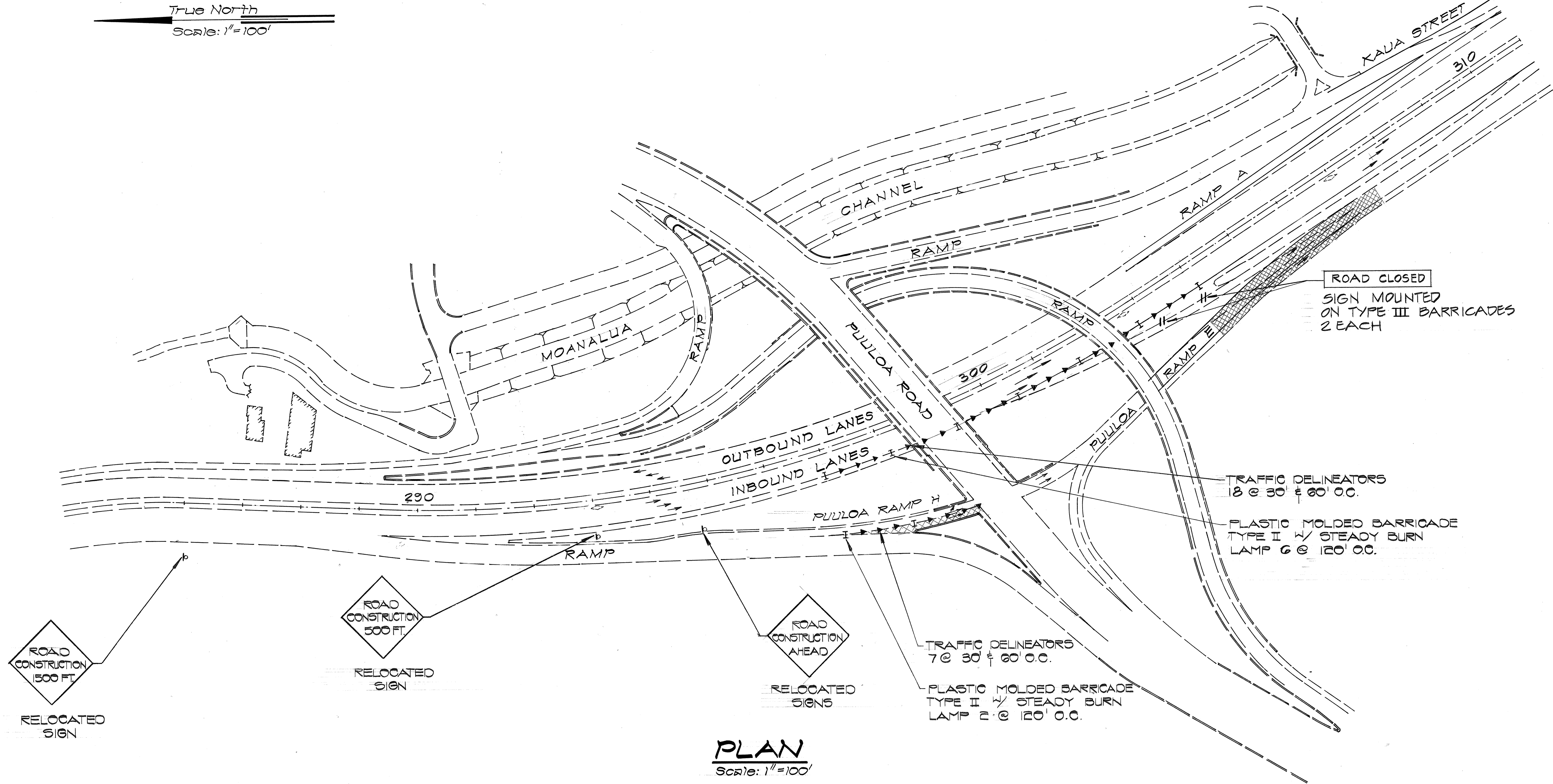


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OR UNDER MY SUPERVISION

3/6/79	ADDITIONAL CONSTRUCTION SIGNS
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PHASE I & II CONSTRUCTION DETOUR	
MOANALUA ROAD PUULOA I.C. TO MIDDLE ST. UNIT 3A F.A. Proj. NO. TQ-F-078-1(8)	
SCALE: AS SHOWN	DATE: NOV. 15, 1978
SHEET NO. 3 OF 6 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(10)	1978	60	266

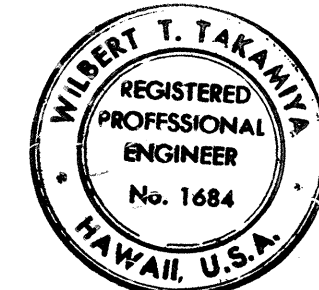
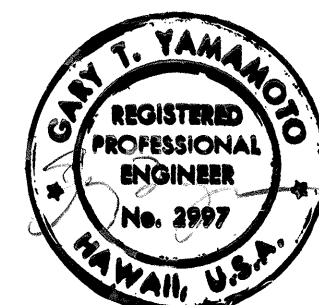
True North
Scale: 1"=100'



PLAN
Scale: 1"=100'

1. PHASE III CONSTRUCTION INVOLVES WORK OVER PORTION OF EXISTING MOANALUA FREEWAY.

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

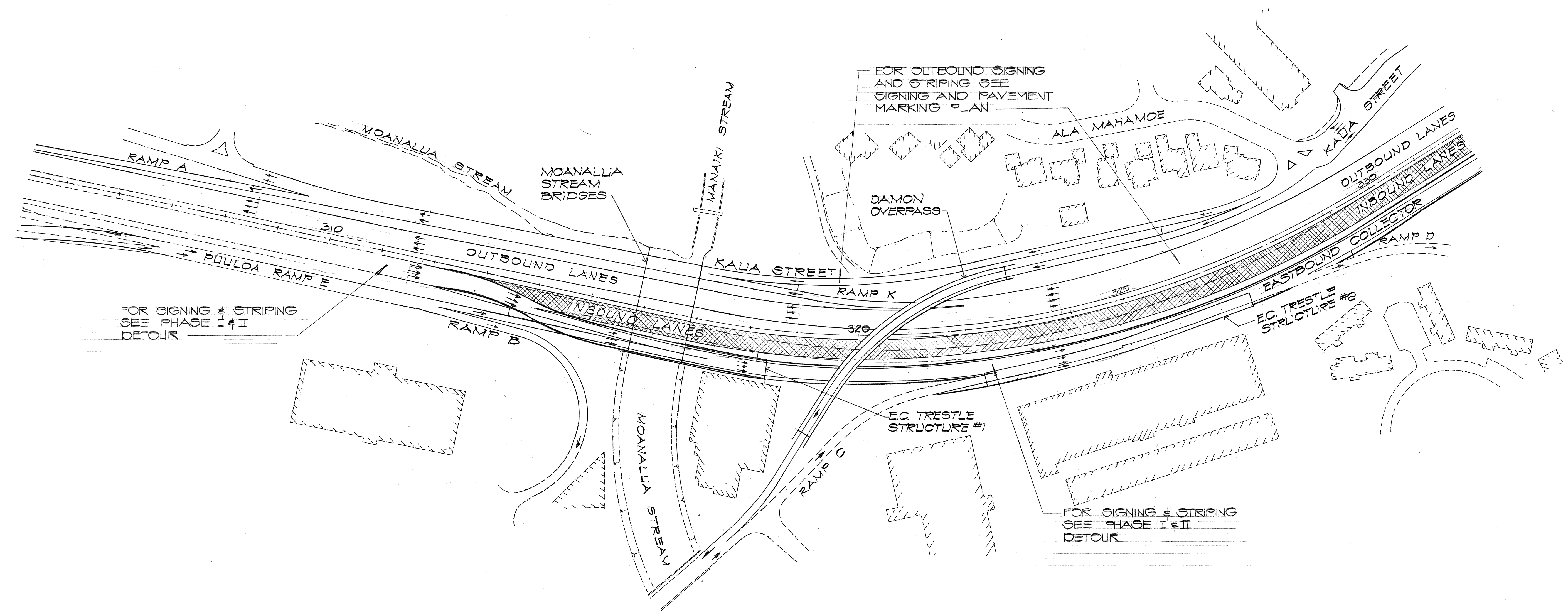


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3/6/79	ADDITIONAL TRAFFIC DELINEATORS TYPES II & III BARRICADES
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PHASE III CONSTRUCTION DETOUR	
MOANALUA ROAD PUHULOA I.C. TO MIDDLE ST.-UNIT 3A F.A. Proj. NO. TQ-F-078-1(10)	
SCALE: AS SHOWN	DATE: NOV. 15, 1978
SHEET NO. 4 OF 6 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(18)	1978	70	266

True North
Scale: 1"=100'



PLAN
Scale: 1"=100'

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



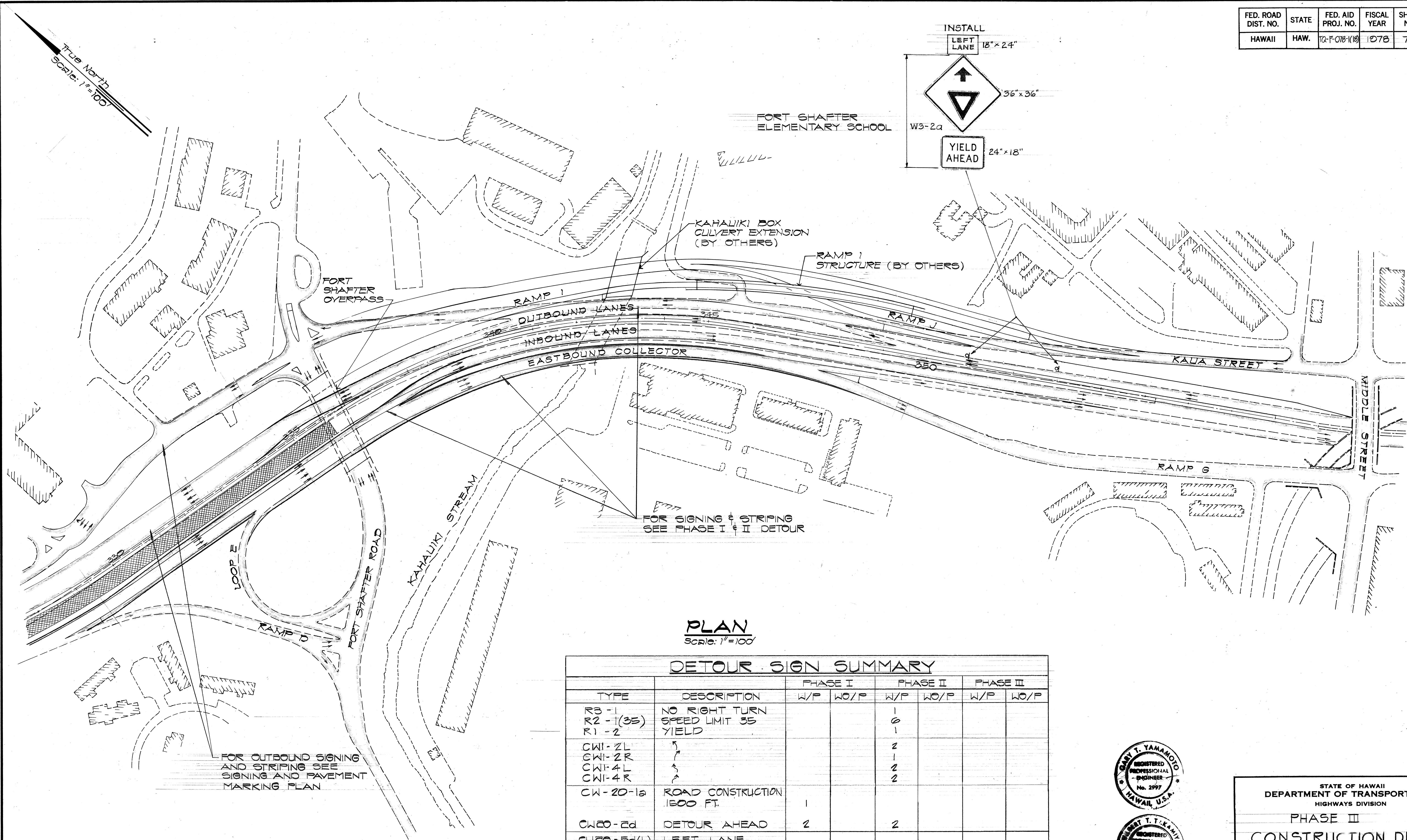
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PHASE II
CONSTRUCTION DETOUR

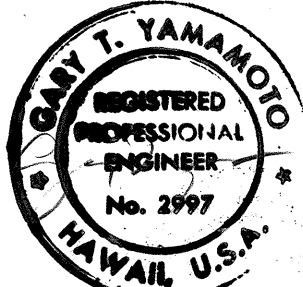
MOANALUA ROAD
PUULOA I.C. TO MIDDLE ST.-UNIT 3A
P.A. Proj. No. TQ-F-078-1(18)
SCALE: AS SHOWN DATE: NOV. 15, 1978
SHEET NO. 5 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	10-F-078-1(18)	1978	71	260



PLAN
Scale: 1"=100'

DETOUR SIGN SUMMARY							
TYPE	DESCRIPTION	PHASE I		PHASE II		PHASE III	
		W/P	WO/P	W/P	WO/P	W/P	WO/P
R3-1 R2-1(35) R1-2	NO RIGHT TURN SPEED LIMIT 35 YIELD			1 0 1			
CW1-2L CW1-2R CW1-4L CW1-4R				2 1 2 2			
CW-20-1a	ROAD CONSTRUCTION 1500 FT.	1					
CW20-2d	DETOUR AHEAD	2		2			
CW20-5d(L)	LEFT LANE CLOSED AHEAD			2			
	RELOCATED SIGN	13	2	6	6	3	
TOTAL		16	2	25	6	3	



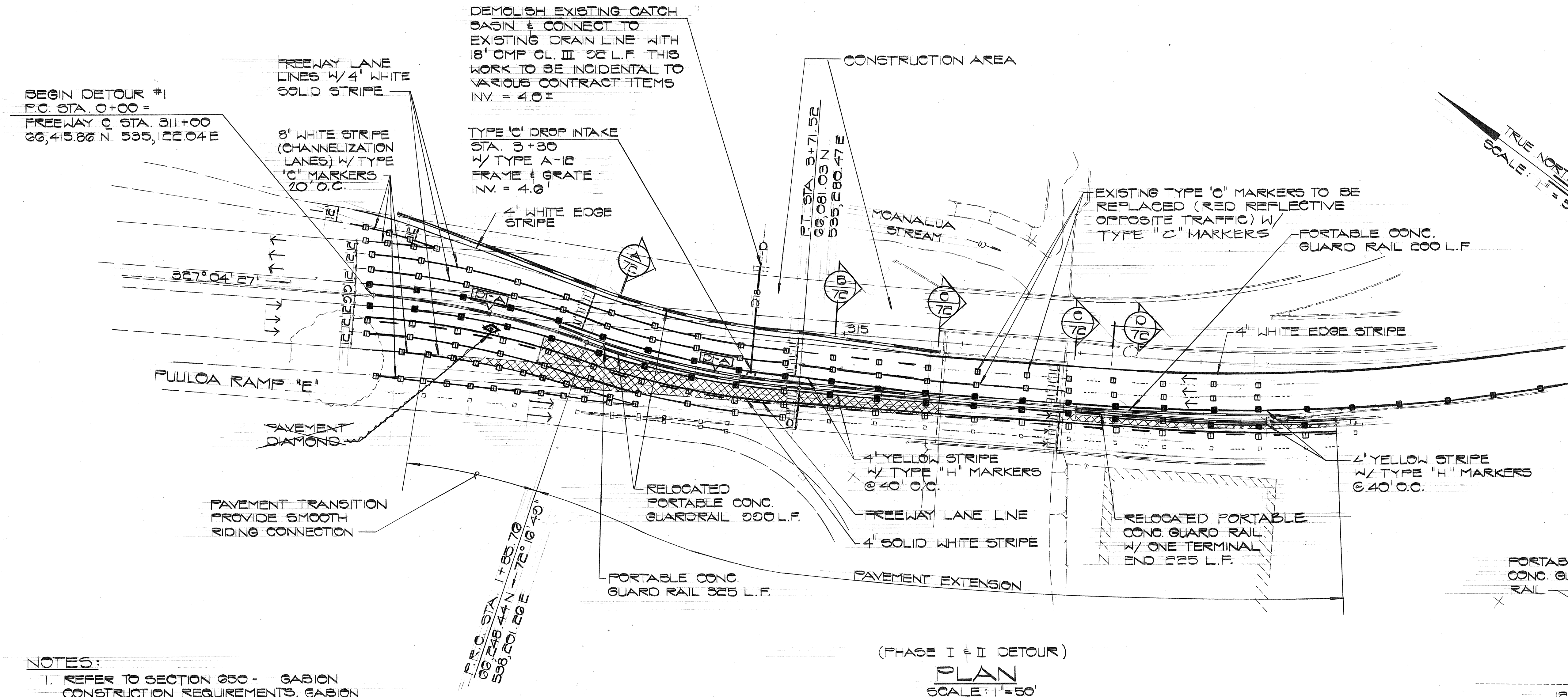
William T. Takemura
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PHASE III
CONSTRUCTION DETOUR

MOANALUA ROAD
PUULOA I.C. TO MIDDLE ST.-UNIT 3A
F.A. Proj. No. 10-F-078-1(18)
SCALE: AS SHOWN DATE: NOV. 15, 1978
SHEET NO. 6 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQF-076(18)	1978	72	266



CURVE DATA D-1A

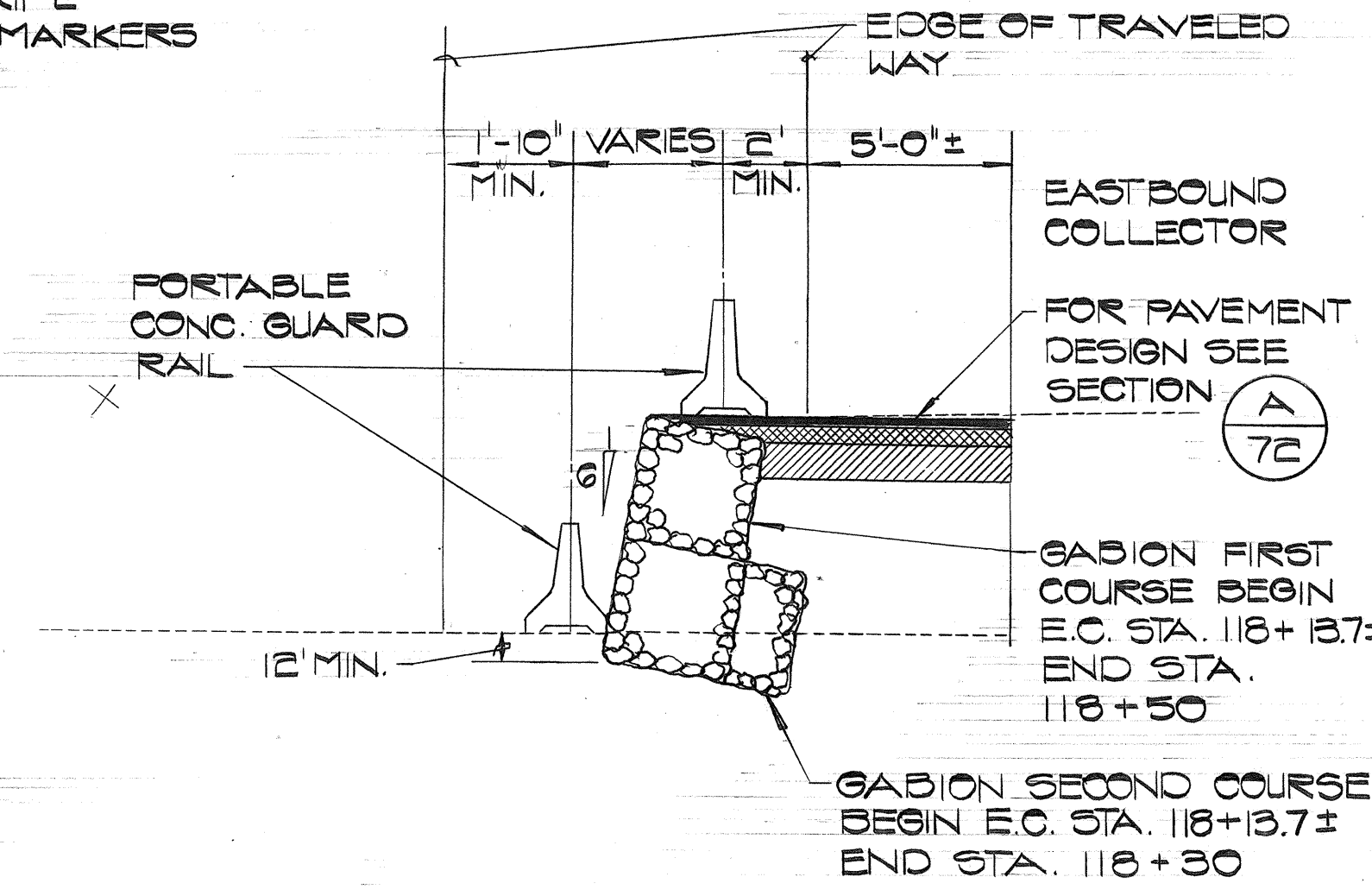
$\Delta = 15^\circ 12' 16''$
 $\Delta/2 = 7^\circ 36' 08''$
 $R = 700.00'$
 $T = 23.43'$
 $Ch = 185.21'$
 $Lc = 185.76'$

NOTES:

1. REFER TO SECTION 250 - GABION CONSTRUCTION REQUIREMENTS, GABION UNIT DIMENSIONAL CONTROL ETC.
2. PAVEMENT EXTENSION

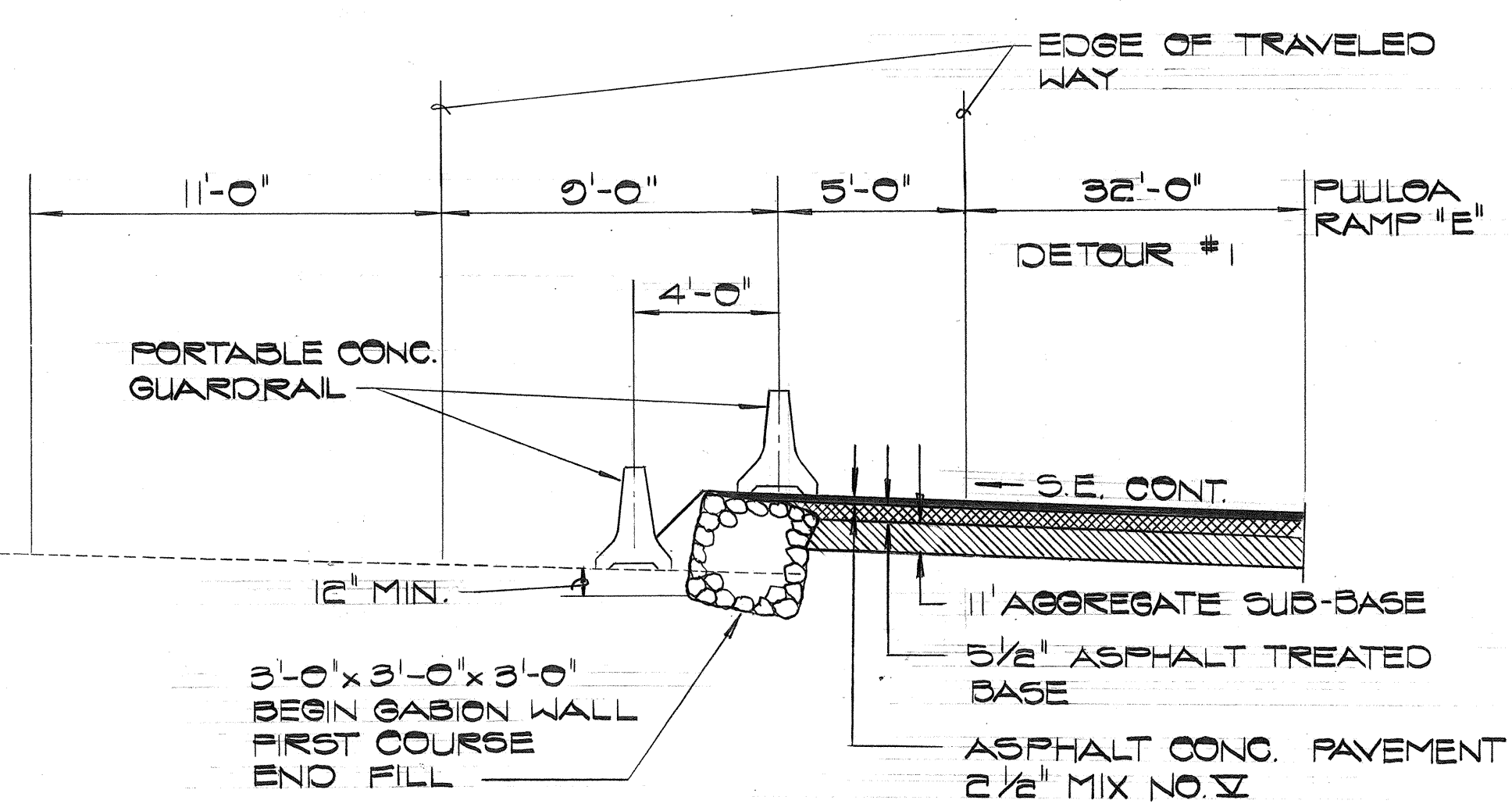
(PHASE I & II DETOUR)

PLAN
SCALE: 1"=50'



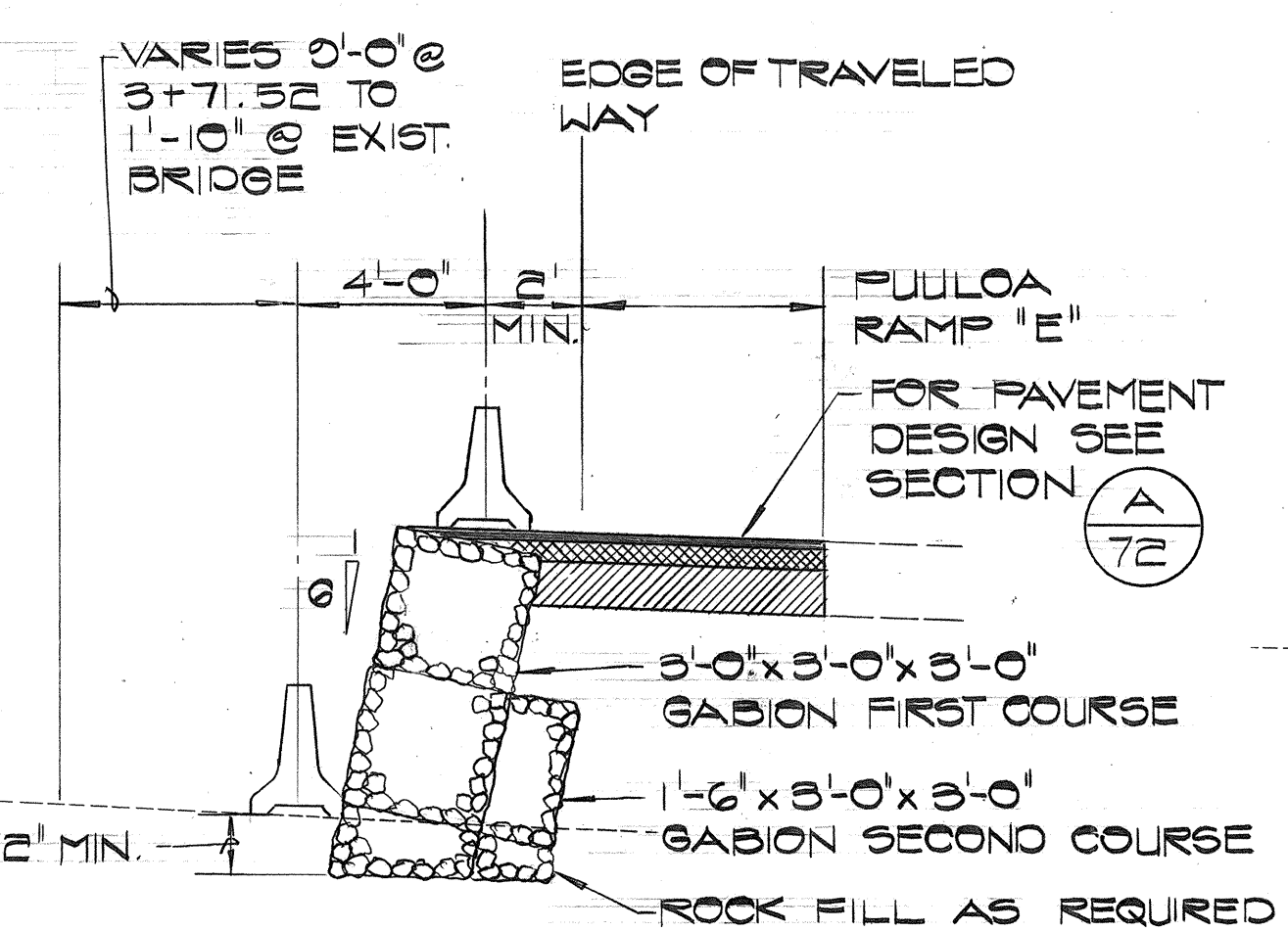
E.C. STA. 118+13.7± TO STA. 118+84±

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



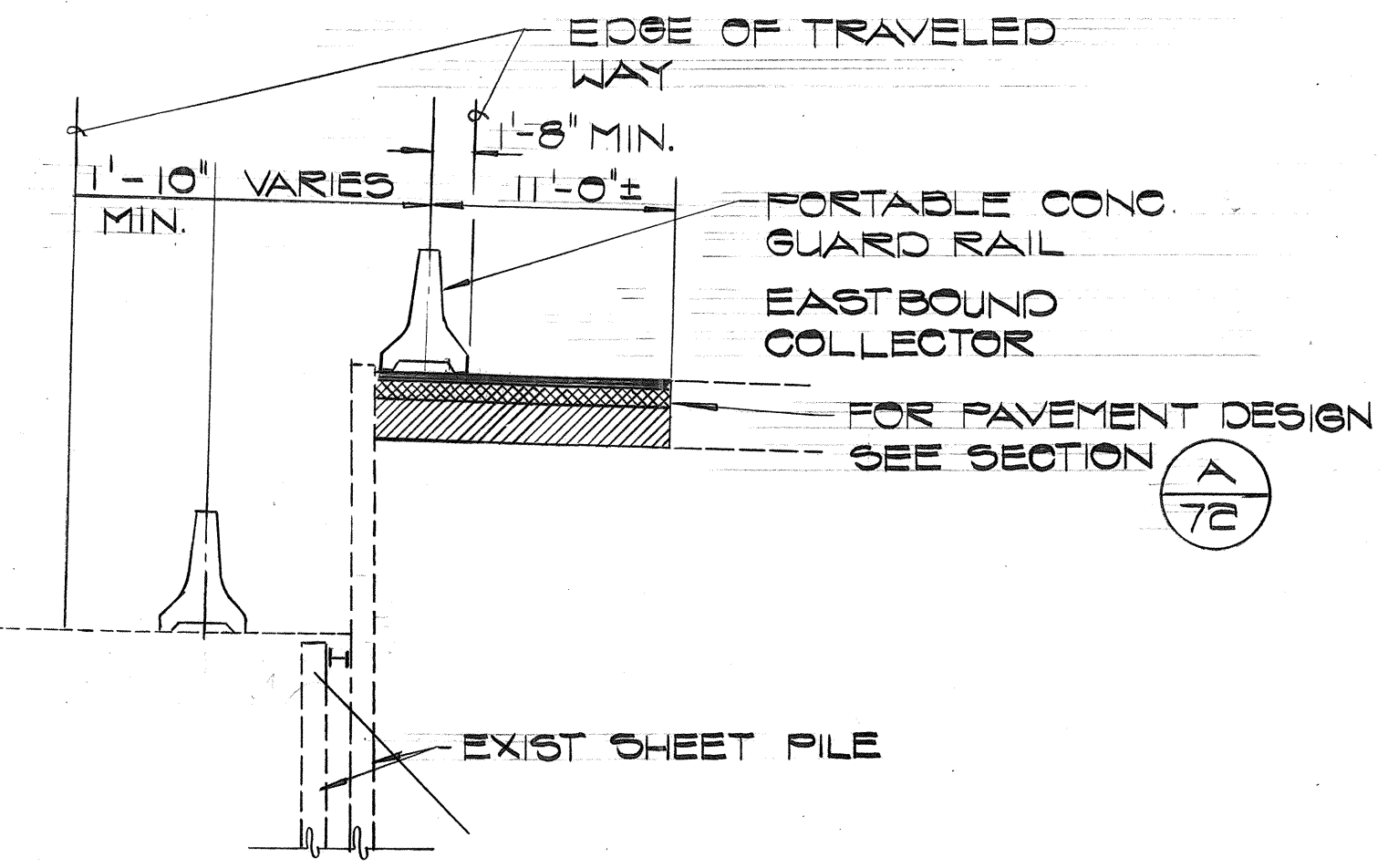
STA. 2+00 TO 2+60

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



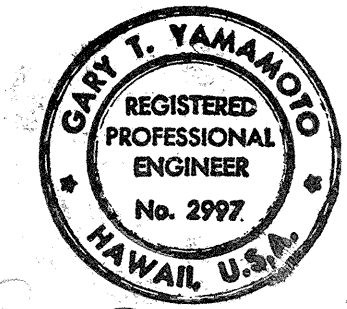
STA. 2+60 TO 4+78±

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



STA. 4+78± TO 4+87±
E.C. STA. 118+04.0± TO E.C. STA. 118+13.7±

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



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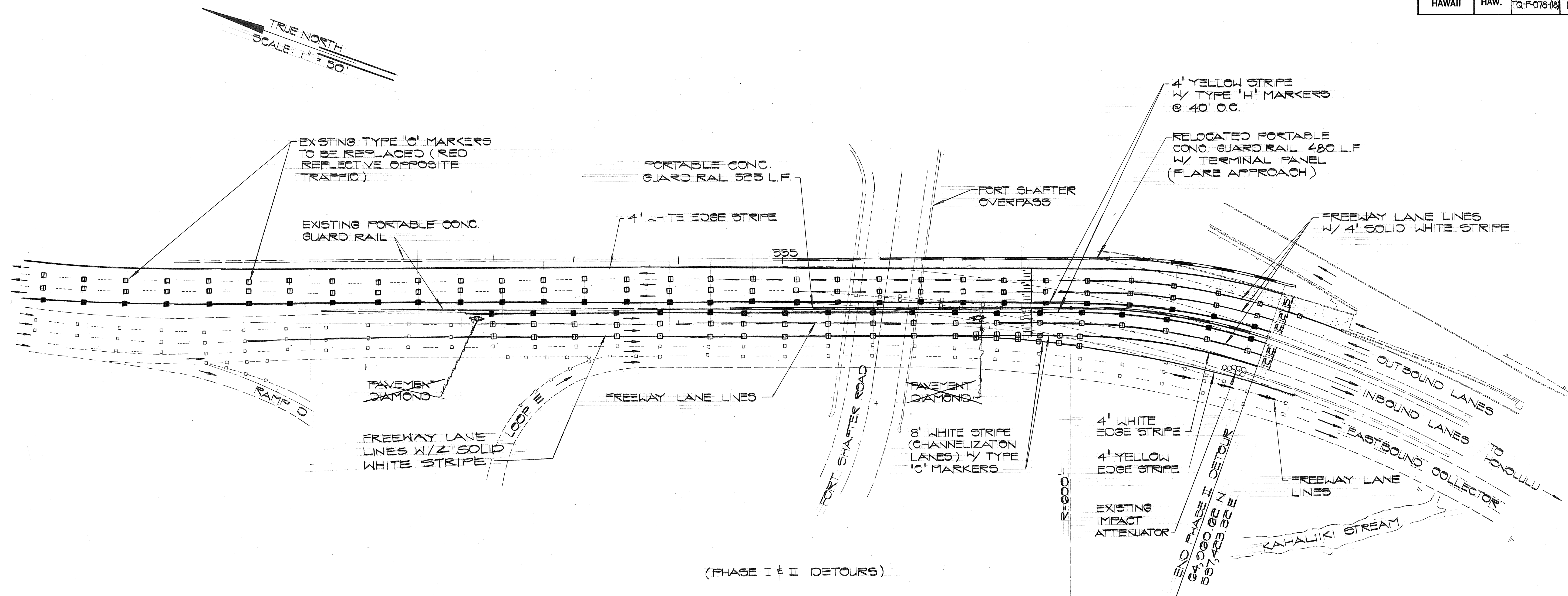
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

CONSTRUCTION DETOUR PLAN AND DETAILS

MOANALUA ROAD
PULLOA I.C. TO MIDDLE ST. UNIT-3A
F.A. PROJ. NO. TQF-F-076(18)

SCALE: AS SHOWN DATE: NOV. 13, 1978
SHEET NO. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQF-F-078(18)	1078	73	2



(PHASE I & II DETOURS)

PLAN
SCALE: 1"=50'

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	



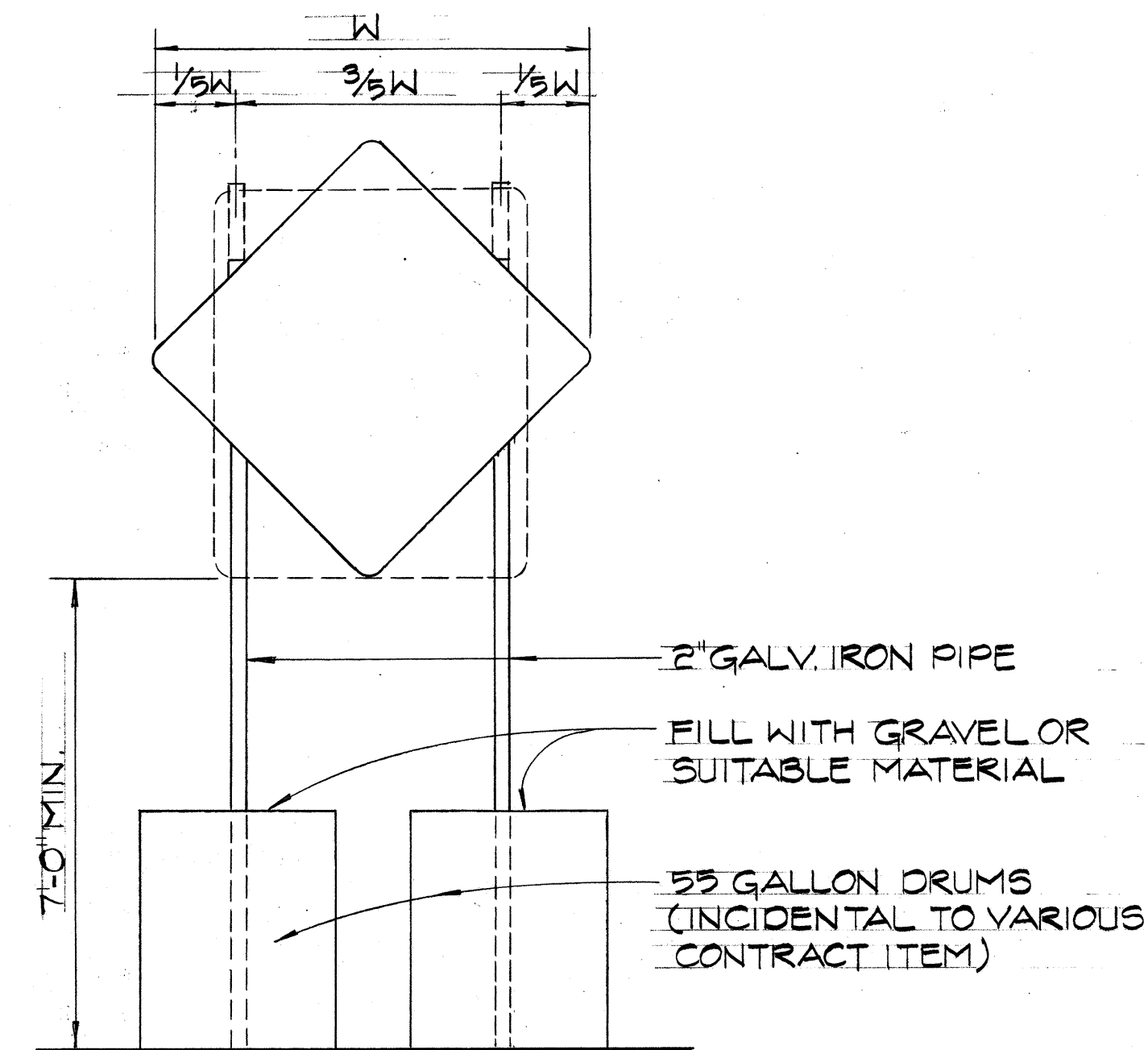
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

3/6/79
DATE

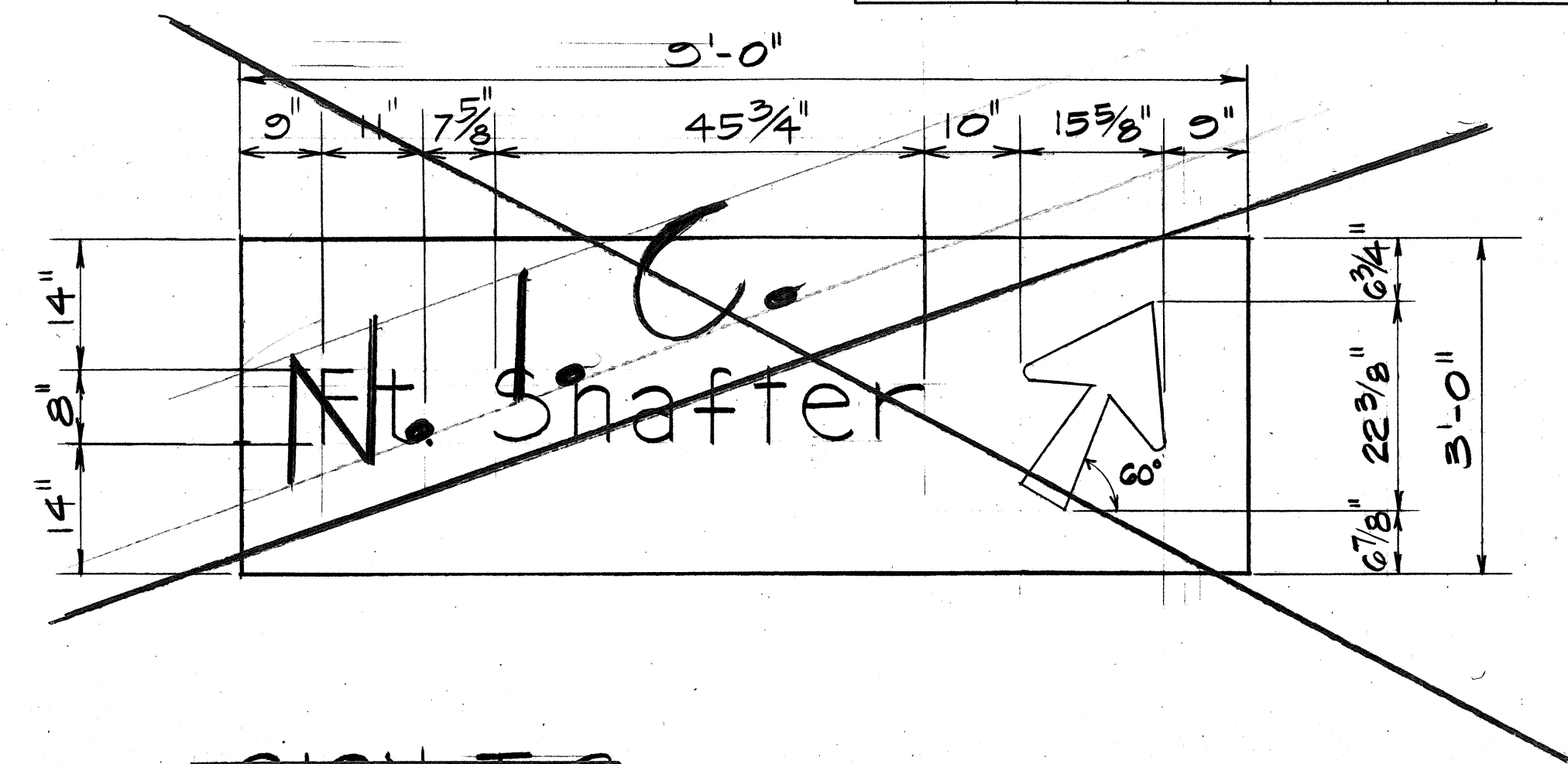
EXTENSION OF PORTABLE CONC. GUARD RAIL
REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
CONSTRUCTION DETOUR PLAN AND DETAILS
MOANALUA ROAD
PULLOA I.C. TO MIDDLE ST. UNIT-3A
F.A. PROJ. NO. TQF-F-078(18)
SCALE: AS SHOWN DATE: NOV. 13, 1978
SHEET NO. 2 OF 6 SHEETS

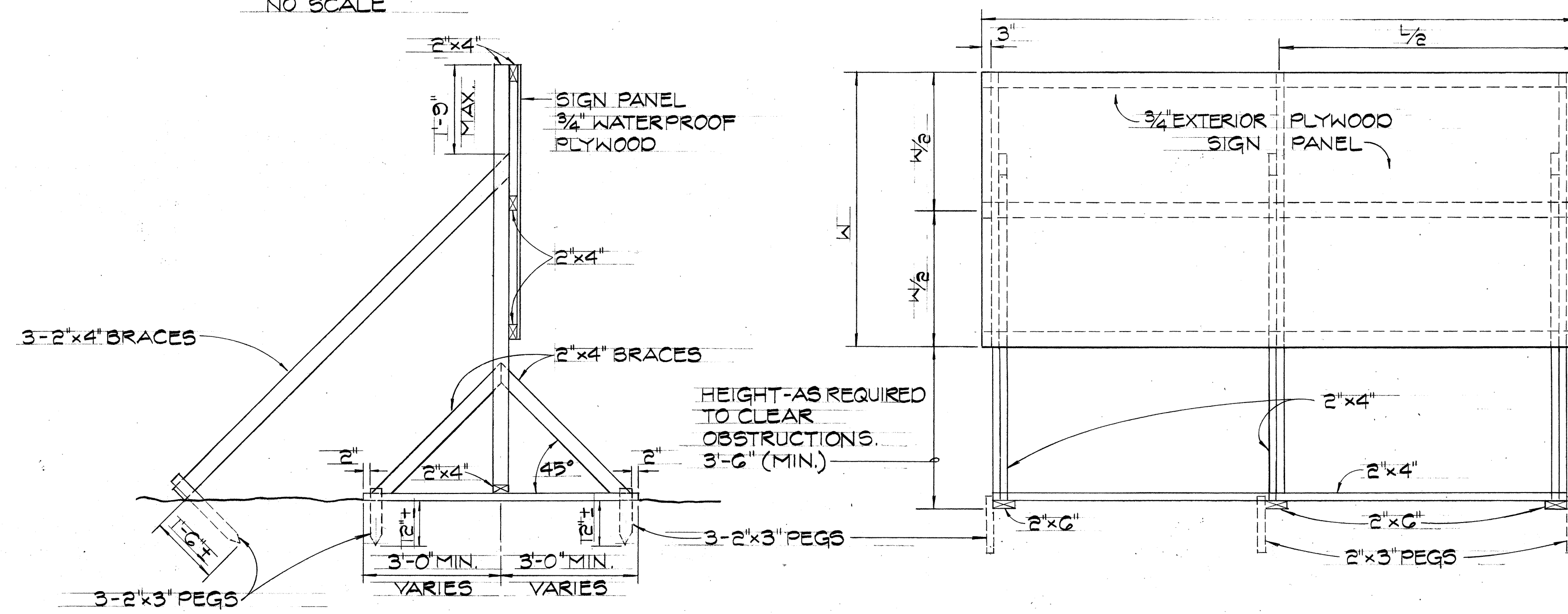
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-078-1(18)	1978	74	266



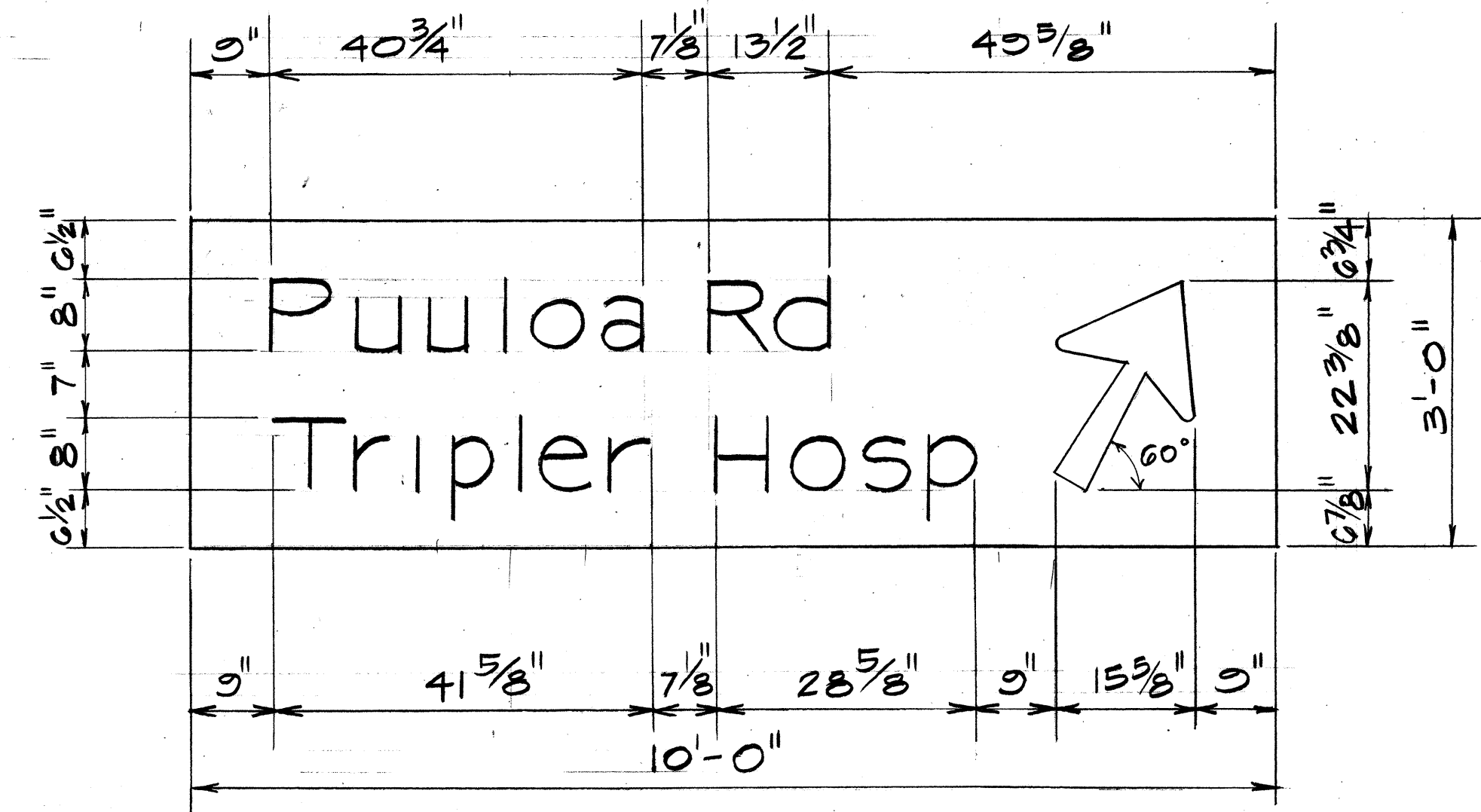
**BARREL SUPPORT
FOR TEMPORARY SIGNS**
NO SCALE



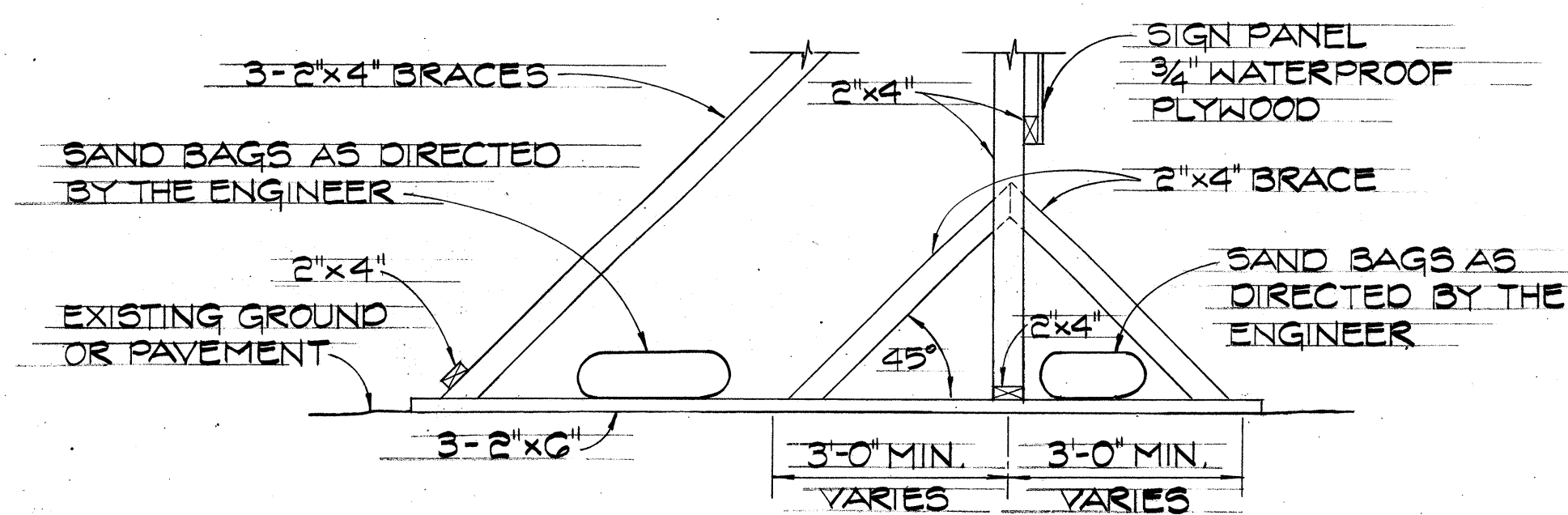
SIGN T-2
± Fwy STA. 356+00
NOT TO SCALE



SIGN FRAME ANCHORED IN GROUND



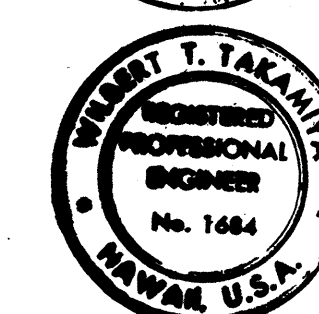
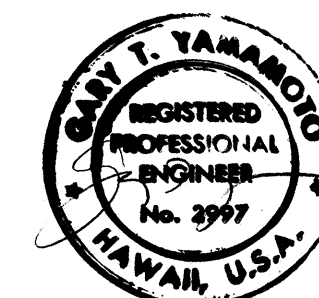
SIGN T-1
± Fwy STA. 322+00
NOT TO SCALE



SIGN FRAME WEIGHTED DOWN

NOTES:

1. TEMPORARY DETOUR SIGNS TO BE MADE OF 3/4" WATERPROOF PLYWOOD. SIGN LEGEND SHALL BE WHITE REFLECTIVE SHEETING ON GREEN REFLECTIVE SHEET BACKGROUND.
2. THE CONTRACTOR SHALL CONSTRUCT, INSTALL AND MAINTAIN THE SIGNS AT THE LOCATIONS SHOWN ON PLANS AND AS ORDERED BY THE ENGINEER.
3. LETTERS SHALL BE SERIES "C" OF THE SIZES SHOWN ON THE PLAN AND SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS," BUREAU OF PUBLIC ROADS, 1966.



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

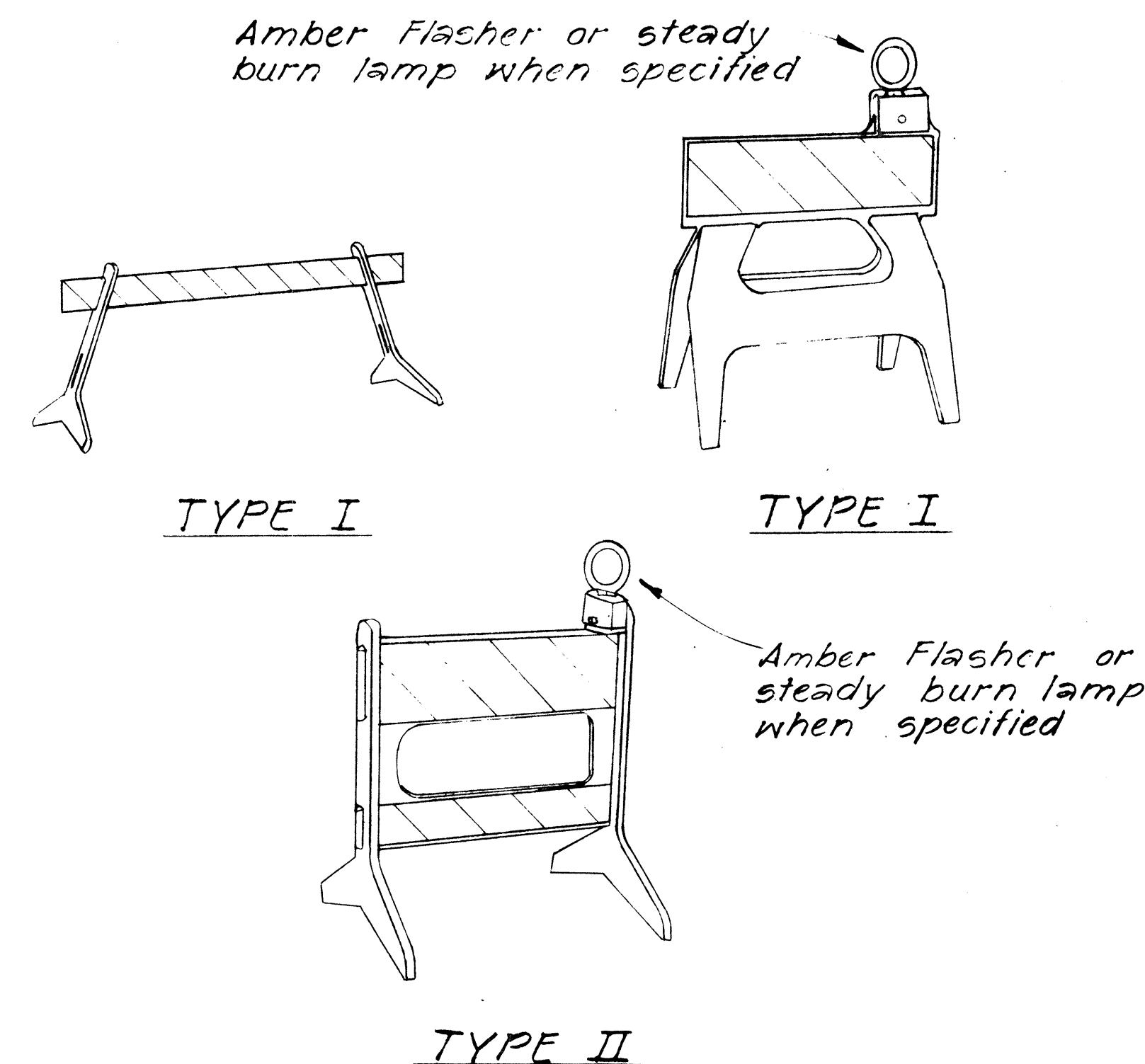
TRAFFIC DETOUR DETAILS

MOANALUA ROAD
PUULO A I.C. TO MIDDLE ST. - UNIT 3A
FA. Proj. No. TQ-F-078-1(18)

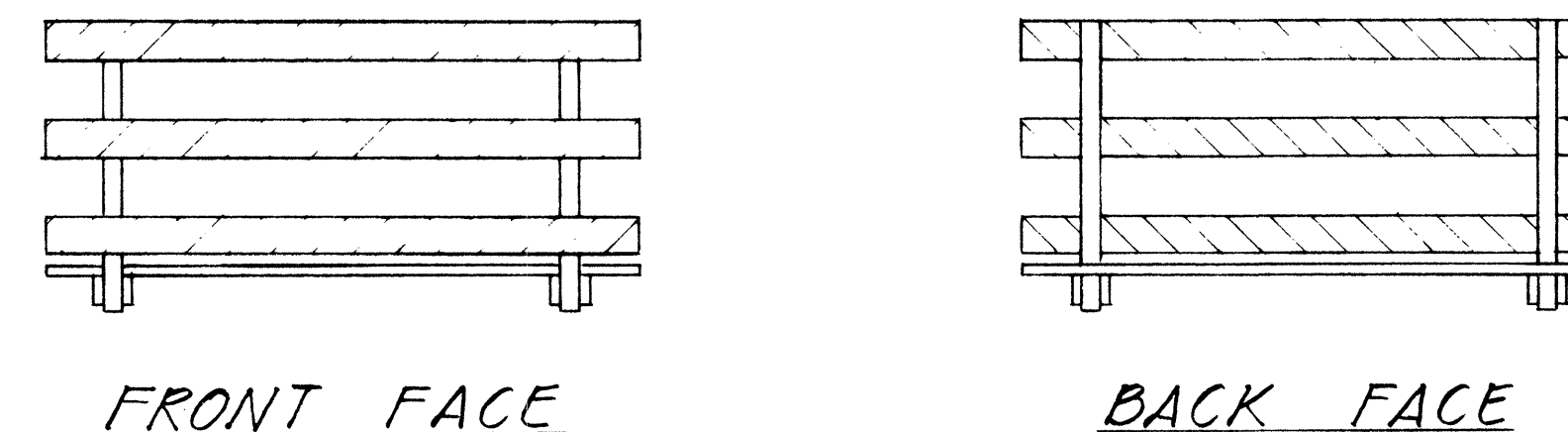
SCALE: AS SHOWN DATE: NOV. 12, 1978

SHEET NO. 3 OF 8 SHEETS

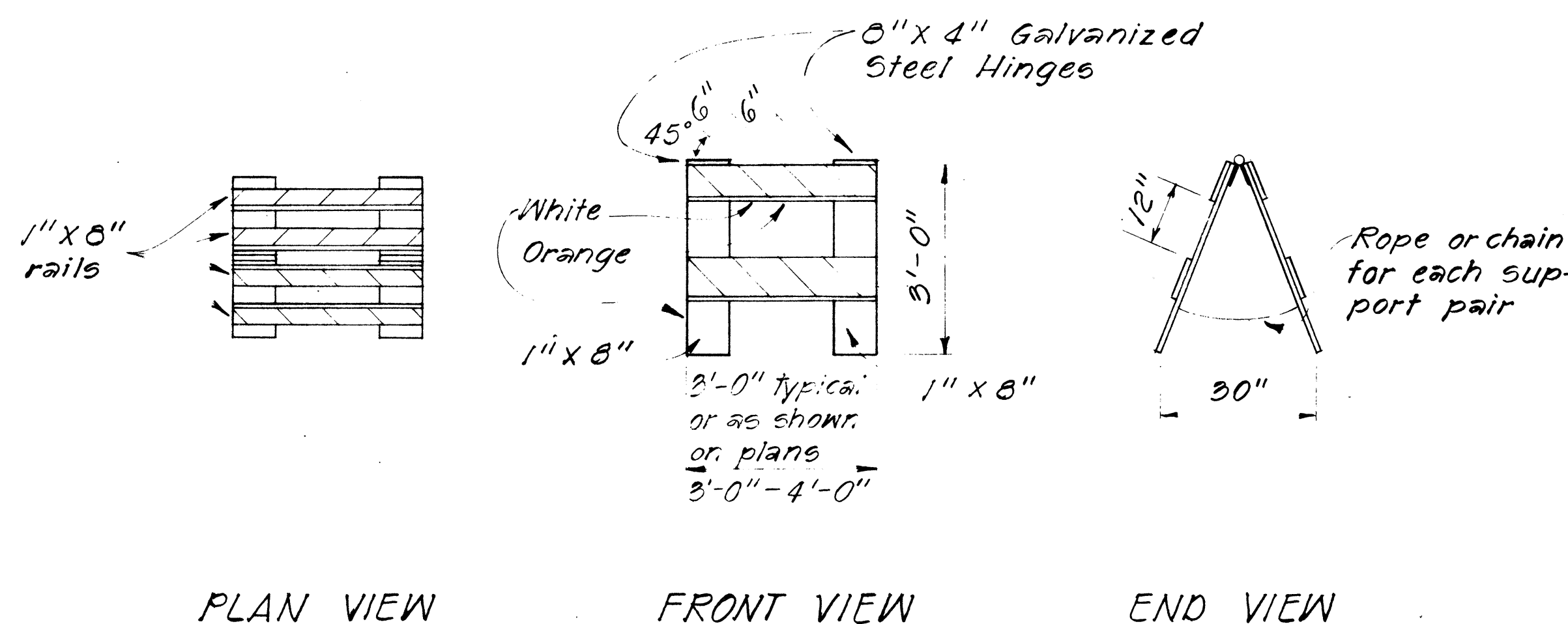
GENERAL NOTES



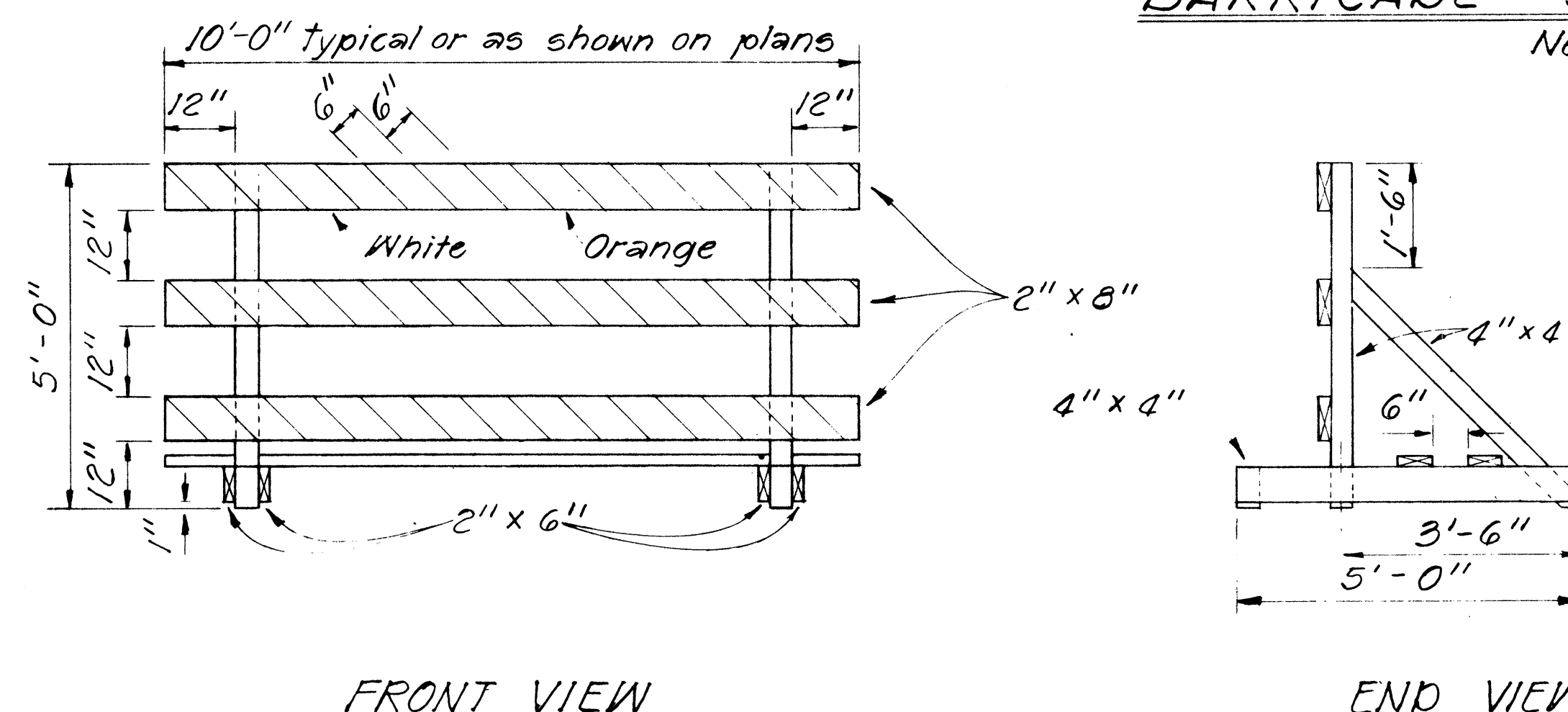
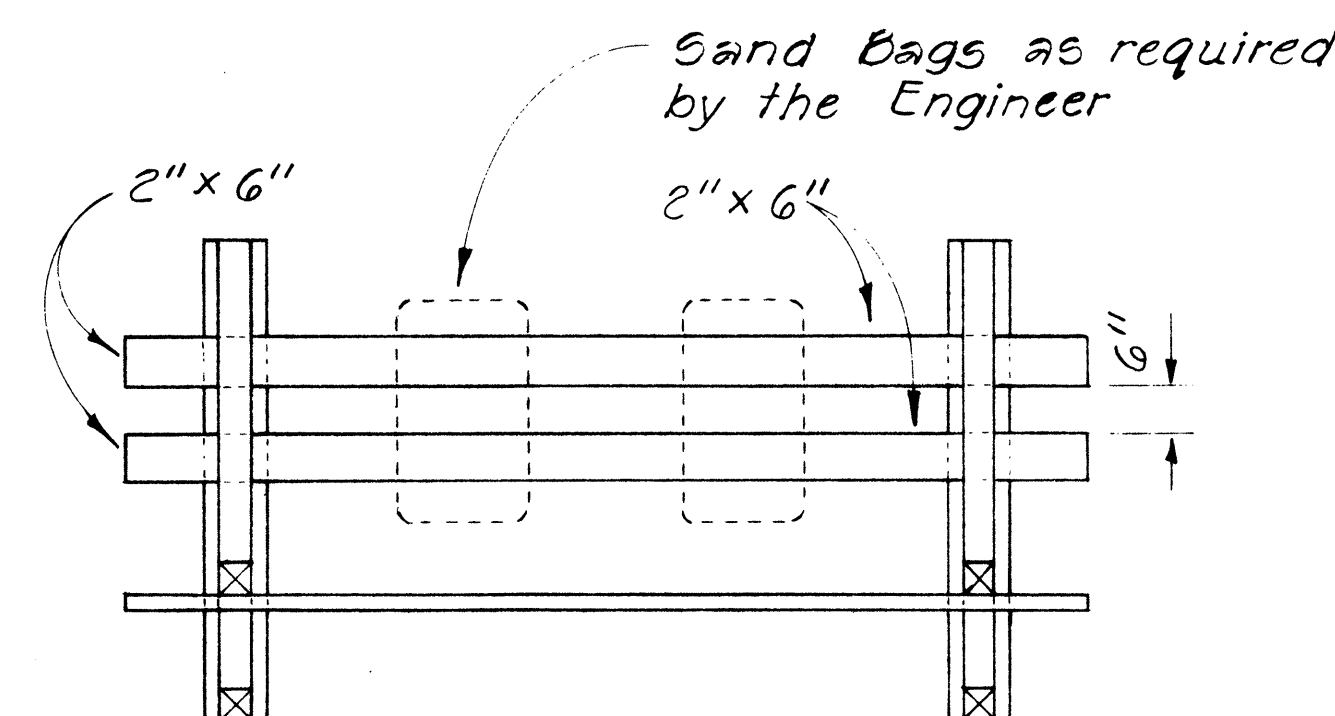
* Shop Drawings must be submitted for approval.



Not to Scale



Scale: $\frac{1}{2}'' = 1' - 0''$



Scale: $\frac{1}{2}'' = 1'-0''$



Wilbert T. Tokanigan
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TYPICAL DETAILS

BARRICADES

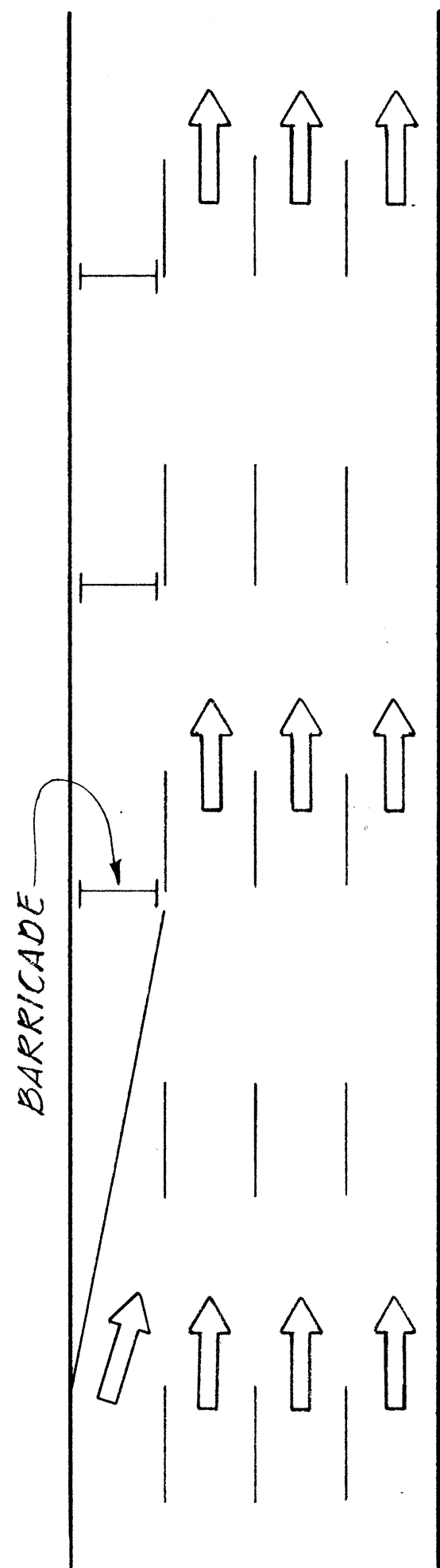
SCALE: As Shown

SHEET No. 5 OF 6 SHEETS

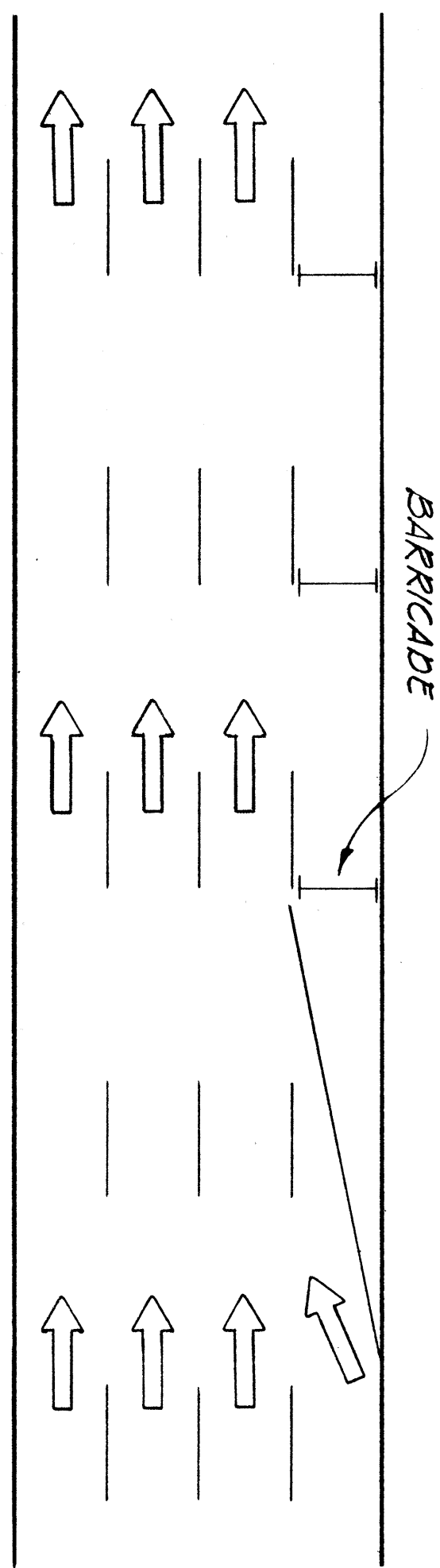
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	TQ-F-018-1(6)	1978	77	266

GENERAL NOTES

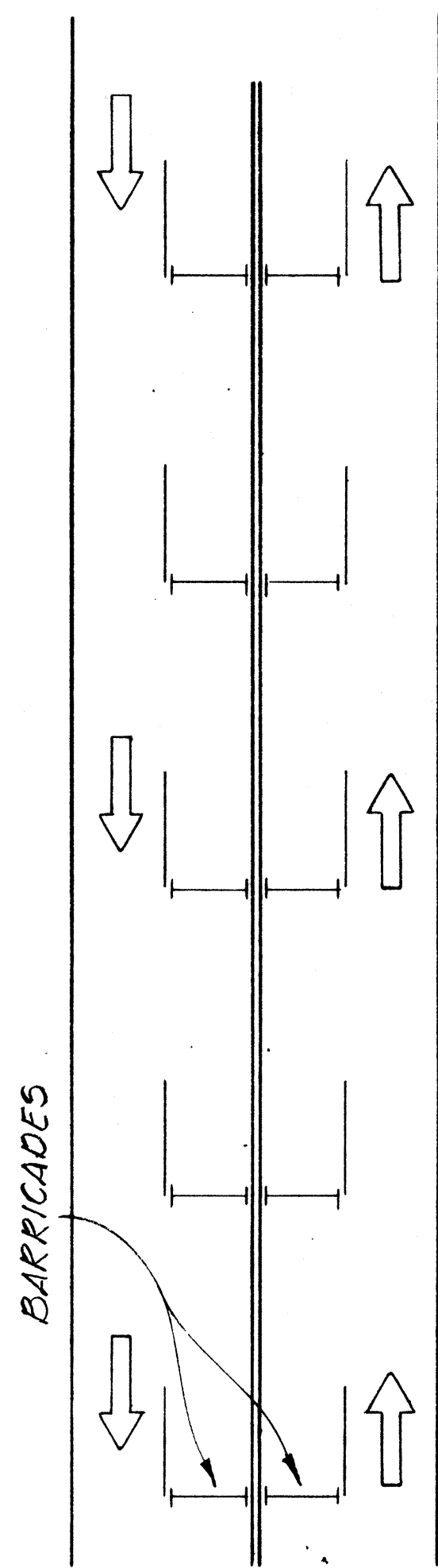
- Barricade Type, Placement, and Arrangement shall be as shown on the Construction Plans.



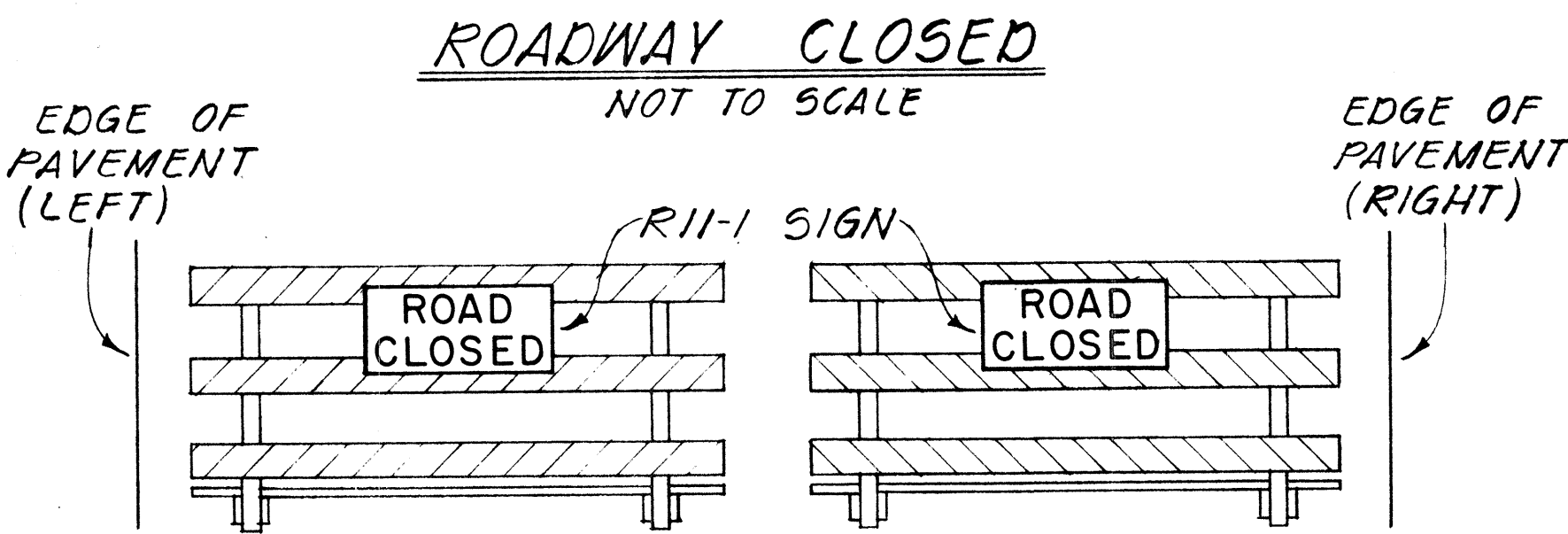
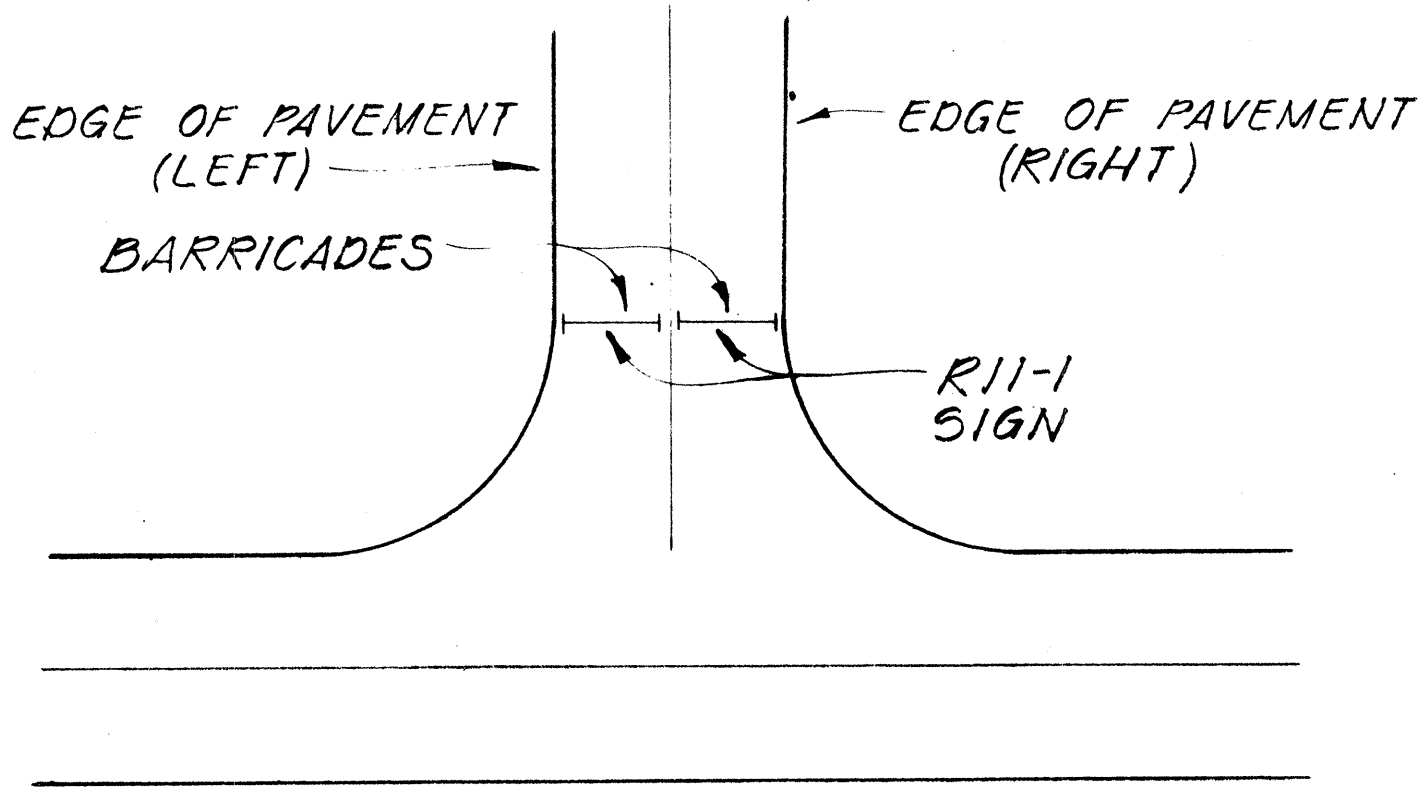
ROADWAY DELINEATION
TO THE RIGHT
NOT TO SCALE



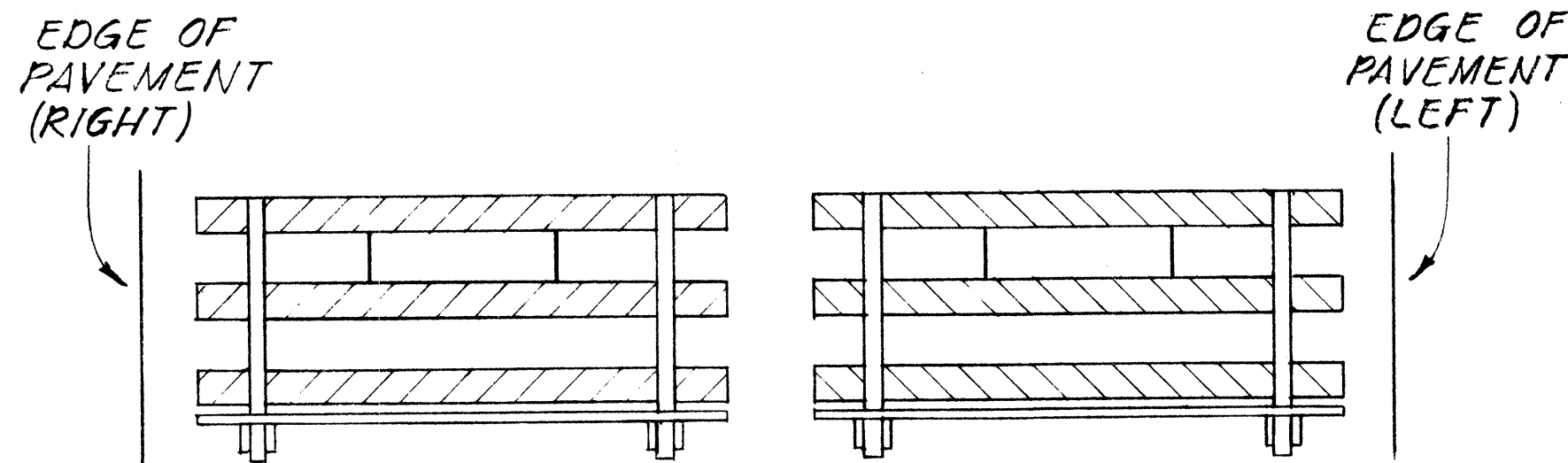
ROADWAY DELINEATION
TO THE LEFT
NOT TO SCALE



ROADWAY DELINEATION
FOR 2-WAY TRAFFIC
NOT TO SCALE

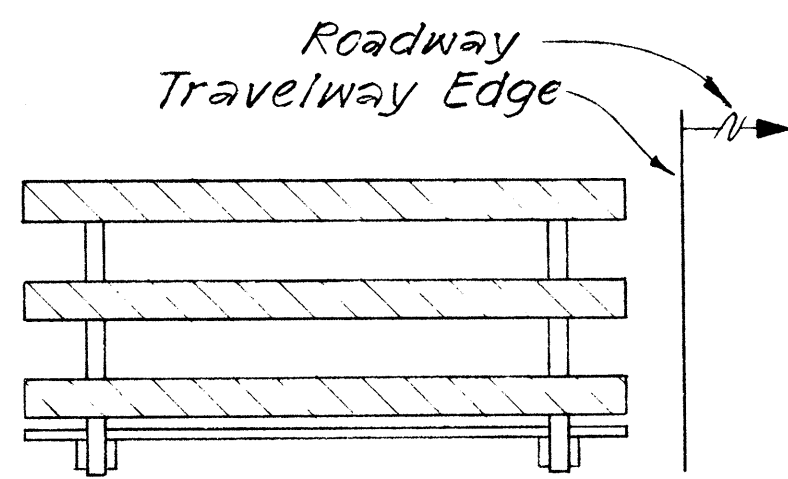


FRONT VIEW

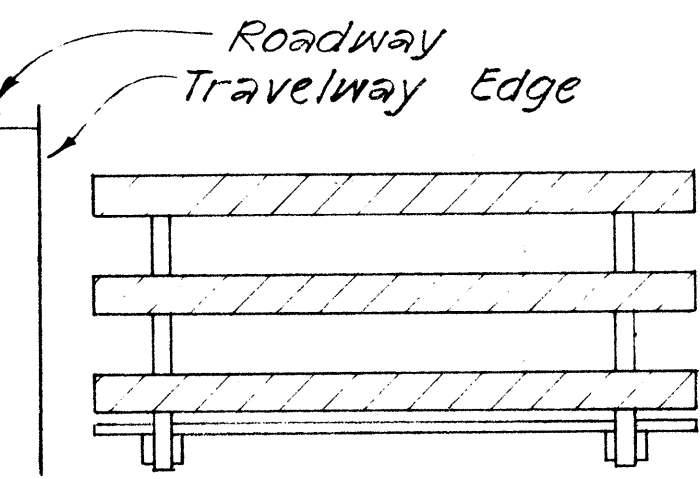


BACK VIEW

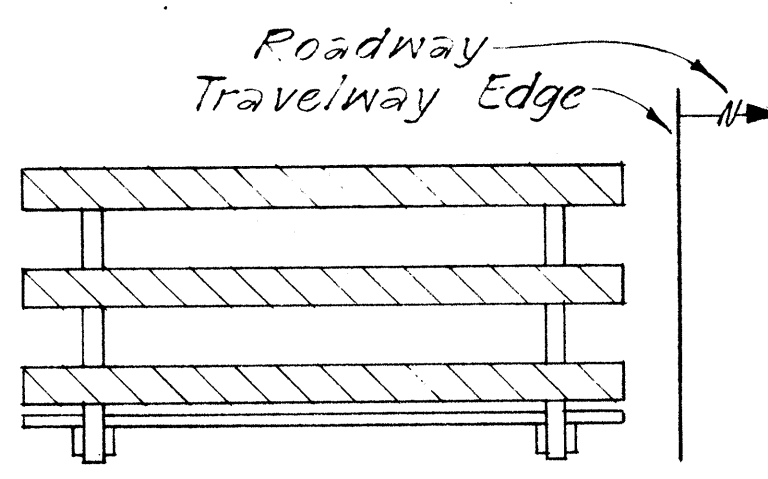
BARRICADE STRIPING
ARRANGEMENT
NOT TO SCALE



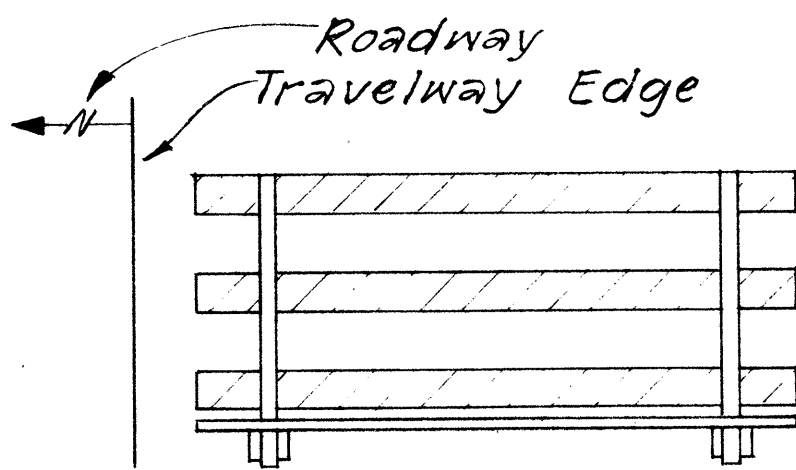
FRONT VIEW



FRONT VIEW

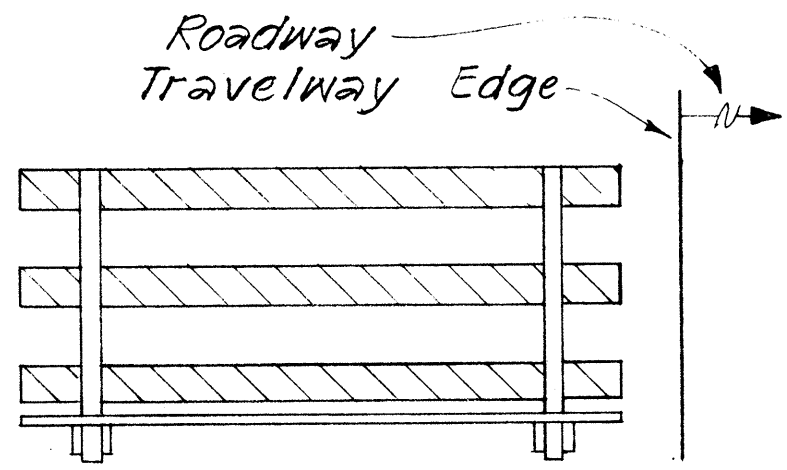


FRONT VIEW



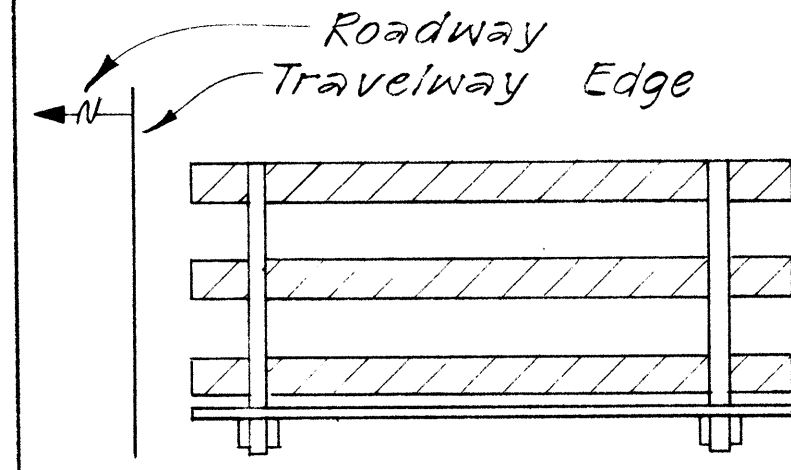
BACK VIEW

BARRICADE STRIPING
ARRANGEMENT
NOT TO SCALE



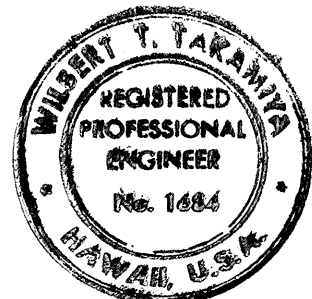
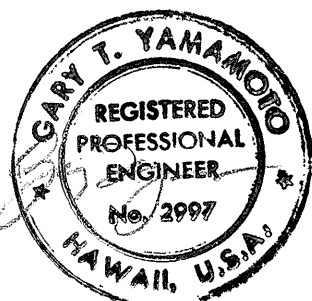
BACK VIEW

BARRICADE STRIPING
ARRANGEMENT
NOT TO SCALE



BACK VIEW

BARRICADE STRIPING
ARRANGEMENT
NOT TO SCALE



Wilbert J. Tokunaga
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
BARRICADE STRIPING DETAILS

SHEET NO. 6 OF 6 SHEETS

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