


ROAD CONSTRUCTION  
BEG (DATE)\*\* TO (DATE)\*\*  
M-F 8:30 AM - 3:30 PM

\*\* See  
Advisory Sign  
Note 3B






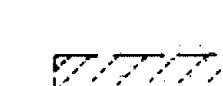
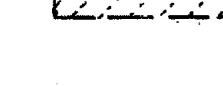


#### ADVISORY SIGNS NOTES

1. MINIMUM SIZE: 4' x 8' 
2. LETTERS SHALL BE SERIES D, 8" HIGH.
3. CONSTRUCTION NOTICE SIGNS.
  - A. LOCATIONS SHALL BE APPROVED IN THE FIELD BY DOT.
  - B. CORRECT DATES OF BEGINNING AND END OF CONSTRUCTION SHALL BE INCLUDED IN THE SIGN MESSAGE AS DETERMINED BY THE CONTRACTOR BASED ON DOT'S APPROVAL.

#### PHASE I NOTES

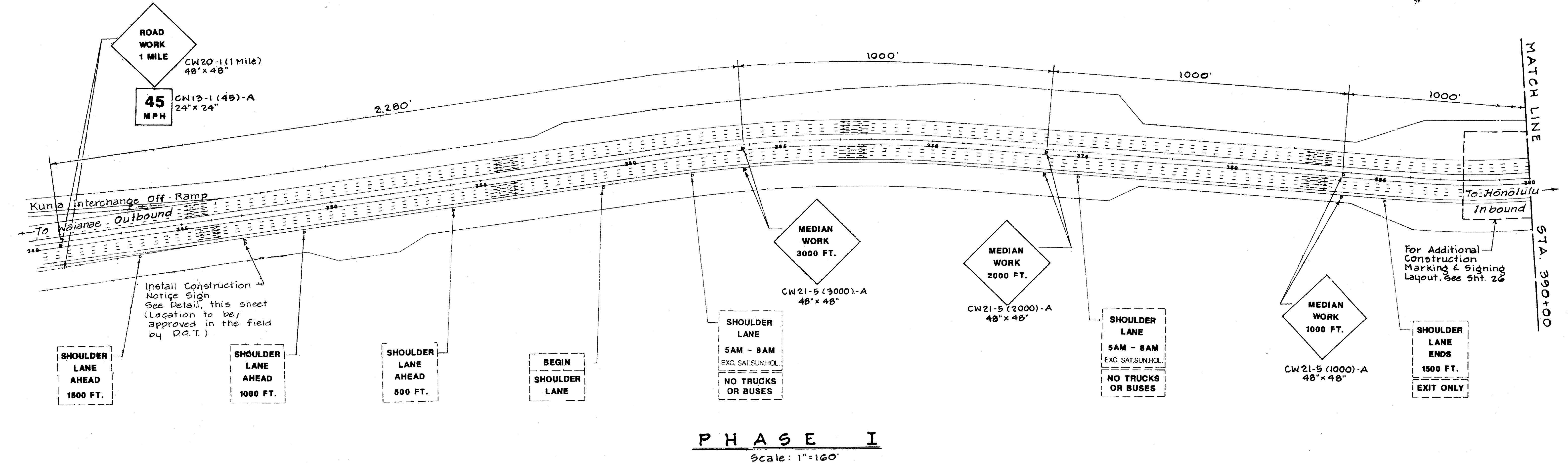
1. PHASE I IS TO BE IMPLEMENTED PRIOR TO BEGINNING WORK IN THE MEDIAN AREA.
2. IF ADDITIONAL WORK AREA IS NEEDED FOR OPERATIONS IN THE MEDIAN AREA, PHASE II IS TO BE IMPLEMENTED DURING NON-PEAK HOURS.
3. AFTER CONSTRUCTION ACTIVITIES IN THE MEDIAN HAVE BEEN COMPLETED, THE BARRICADES ARE TO BE MOVED OFF THE SHOULDERS AND INTO MEDIAN AREA (2 FEET CLEAR TO SHOULDER PAVEMENT).
4. EXISTING GUARDRAILS IN THE MEDIAN AREA ARE TO BE REPLACED BEFORE REMOVAL OF TEMPORARY CONCRETE BARRICADES.

#### LEGEND

-  Work Area Limits
-  Cone or Delineator
-  Sign
-  Direction of Rerouted Traffic
-  Direction of Existing Traffic
-  Flashing Arrow Signal
-  Flagman / Police Officer
-  Portable Concrete Guardrail with Steady Burn Lamp
-  Work Area Limits - Overhead (Traffic passage permitted beneath Work Area)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FMT-H10-01-97			

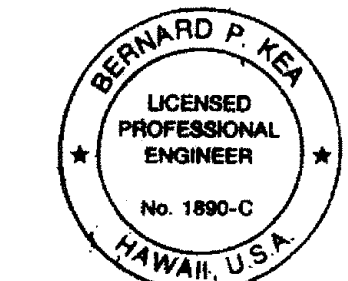
True North  
Scale: 1"=160'



PHASE I  
Scale: 1"=160'

#### GENERAL NOTES FOR TRAFFIC CONTROL PLAN

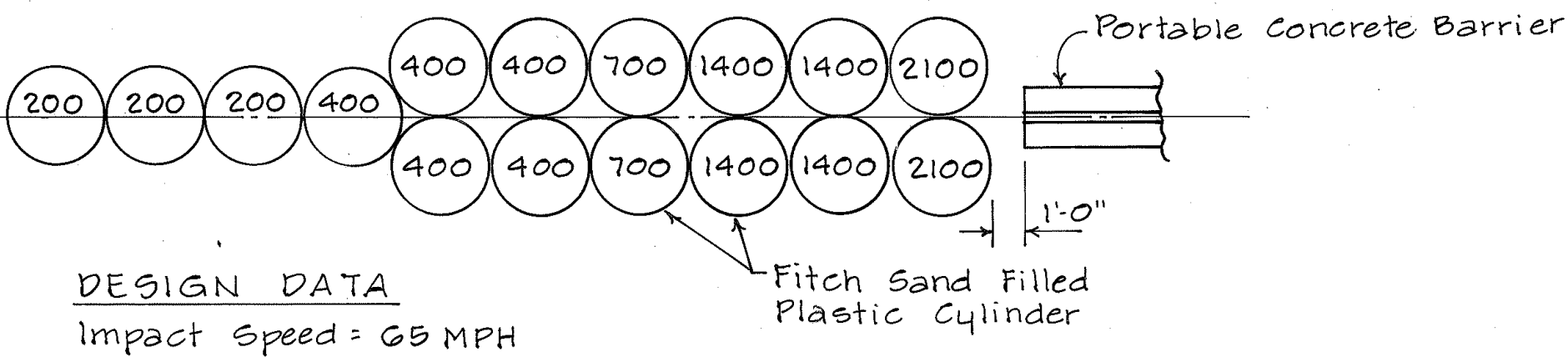
1. THE PERMITTEE SHALL MAKE MINOR ADJUSTMENTS AT INTERSECTIONS, DRIVEWAYS, BRIDGES, STRUCTURES, ETC., TO FIT FIELD CONDITIONS.
2. CONES OR DELINEATORS SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
3. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA SHALL BE PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.
4. REGULATORY AND WARNING SIGNS WITHIN THE CONSTRUCTION ZONE THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED. ALL SIGNS SHALL BE RESTORED UPON COMPLETION OF THE WORK.
5. FLAGGERS AND/OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
6. SIGN SPACINGS, TAPER LENGTHS AND SPACINGS OF CONES OR DELINEATORS SHOWN ON THE TRAFFIC CONTROL PLANS SHALL BE USED, UNLESS OTHERWISE REQUIRED BY THE ISSUING OFFICE.
7. ALL TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
8. ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.
9. AT THE END OF EACH DAY'S WORK OR AS SOON AS THE WORK IS COMPLETED, THE PERMITTEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN THE REVERSE ORDER OF INSTALLATION.
10. REPLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS UPON COMPLETION OF EACH PHASE OF WORK.
11. WHEN REQUIRED BY THE ISSUING OFFICE, THE PERMITTEE SHALL INSTALL A FLASHING ARROW SIGNAL AS SHOWN ON THE TRAFFIC CONTROL PLANS.
12. DURING PEAK HOURS ALL TRAVEL LANES AND INBOUND SHOULDER LANE SHALL REMAIN OPEN.
13. THE BACKS OF ALL SIGNS USED FOR TRAFFIC CONTROL SHALL BE APPROPRIATELY COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGE (I. E., WHEN SIGNS HAVE MESSAGES ON BOTH FACES).



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*Bernard P. Kea*

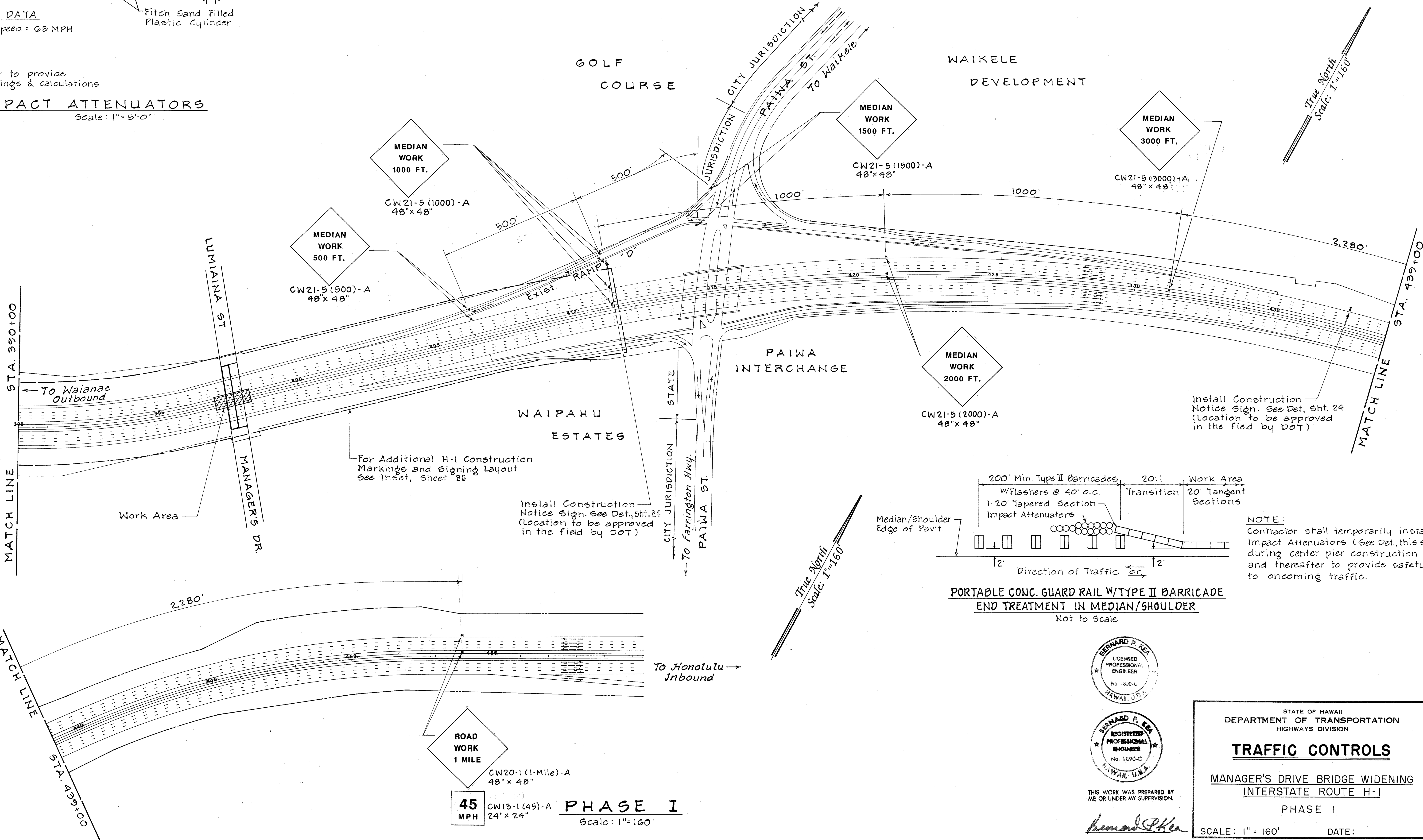
4-1-99	Record Drawing, change size	CPI	
REVISION DATE	DESCRIPTION	MADE BY	APPROVED
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>TRAFFIC CONTROLS</b> MANAGER'S DRIVE BRIDGE WIDENING INTERSTATE ROUTE H-1 PHASE I SCALE: 1"=160' DATE: SHEET NO. 1 OF 13 SHEETS			

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PMT-HIC-01-97			

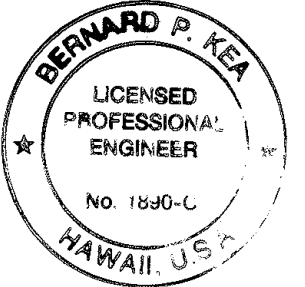


NOTE:  
Contractor to provide  
Shop drawings & calculations

# **IMPACT ATTENUATORS** Scale: 1" = 5'-0"



NOTE:  
Contractor shall temporarily install  
Impact Attenuators (See Det. this sht.)  
during center pier construction  
and thereafter to provide safety  
to oncoming traffic.



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*Bernard P. Kea*

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TRAFFIC CONTROLS**  
MANAGER'S DRIVE BRIDGE WIDENING  
INTERSTATE ROUTE H-1  
PHASE I  
SCALE: 1" = 160'      DATE:

SHEET NO. 2 OF 13 SHEETS

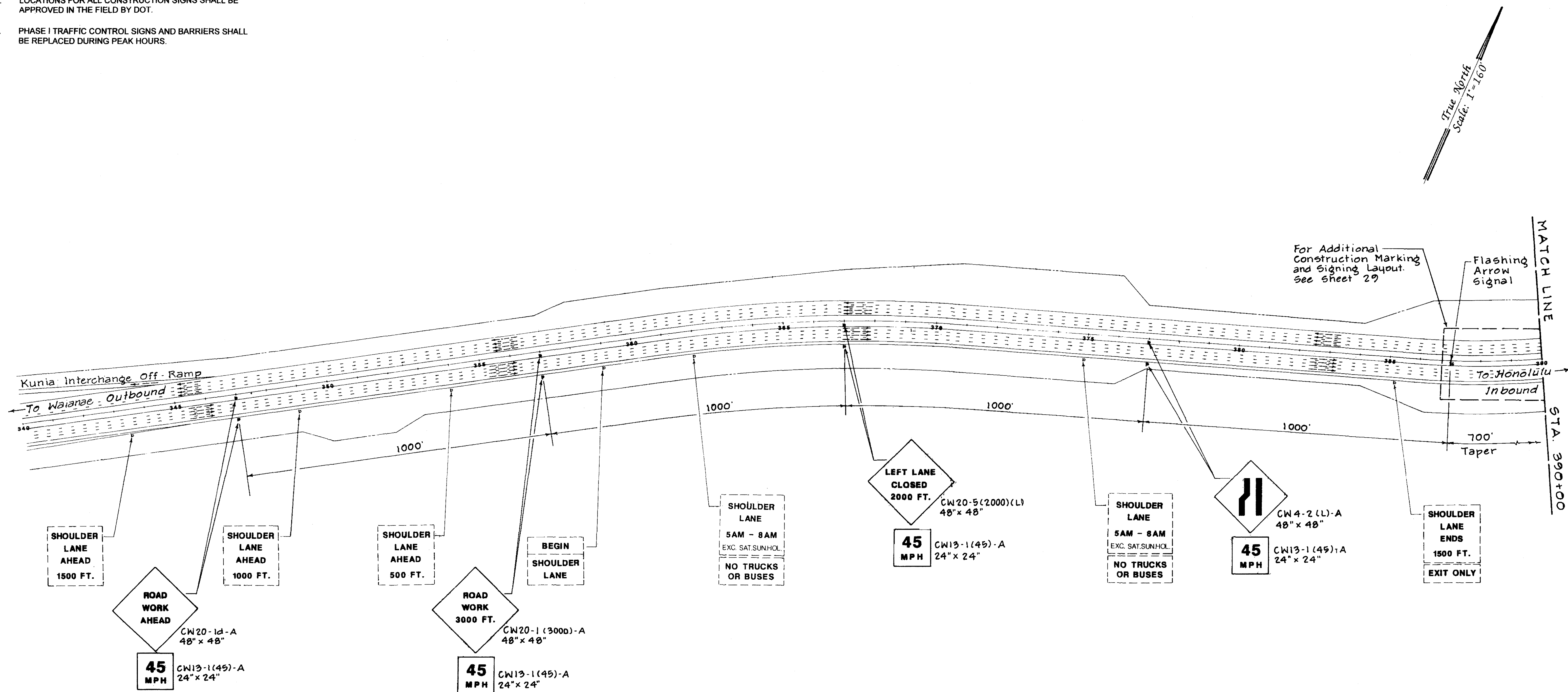




# PHASE II NOTES

1. PHASE II SIGNS AND DELINEATORS ARE TO BE USED ONLY DURING NON-PEAK HOURS.
2. LOCATIONS FOR ALL CONSTRUCTION SIGNS SHALL BE APPROVED IN THE FIELD BY DOT.
3. PHASE I TRAFFIC CONTROL SIGNS AND BARRIERS SHALL BE REPLACED DURING PEAK HOURS.

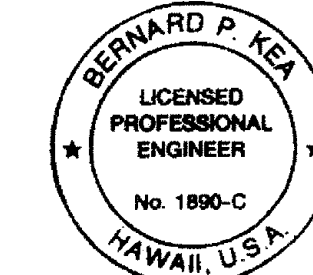
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PMT-H10-01-97			



## PHASE II

Scale: 1" = 160'

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



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DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

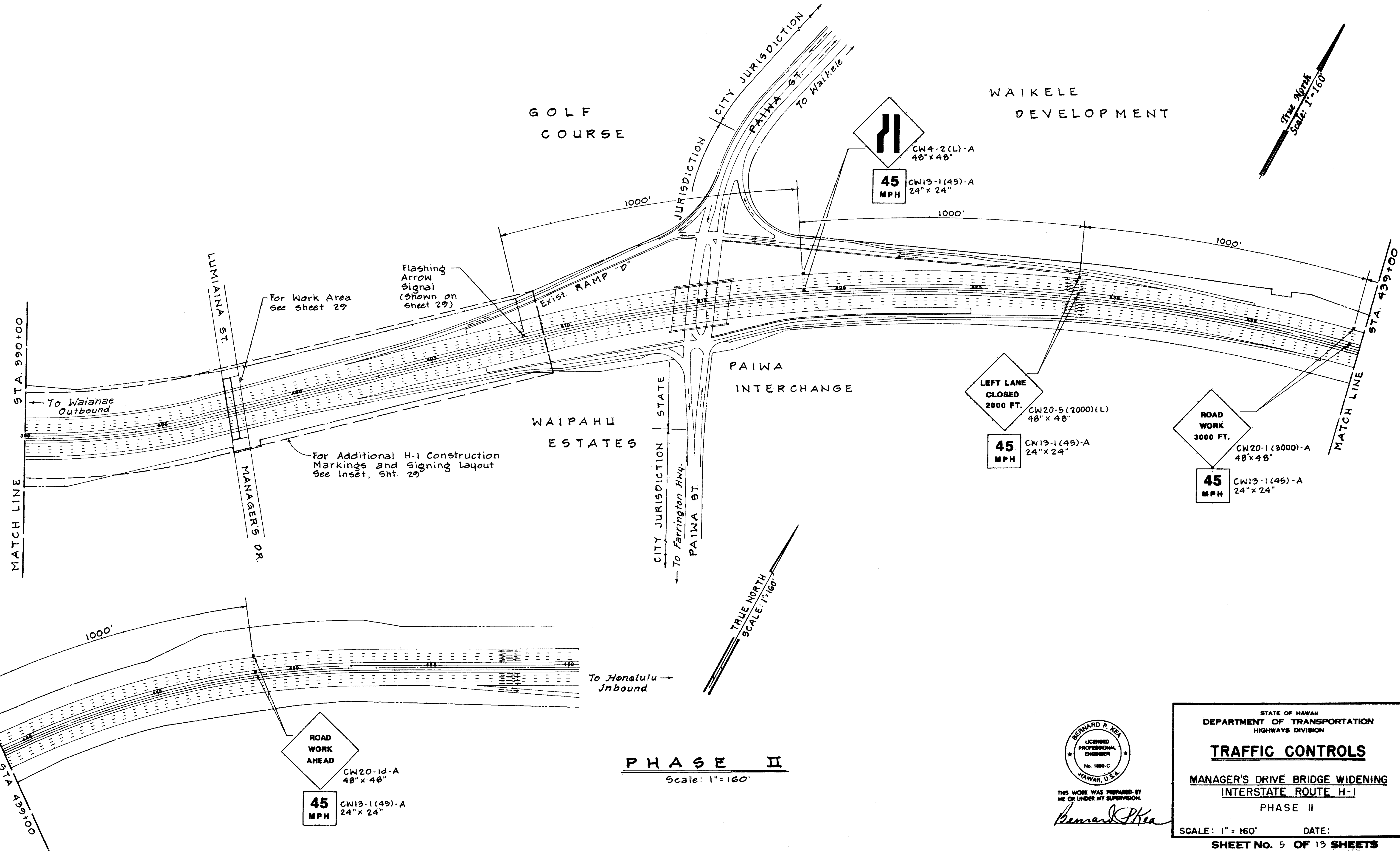
**TRAFFIC CONTROLS**

MANAGER'S DRIVE BRIDGE WIDENING  
INTERSTATE ROUTE H-1  
PHASE II

SCALE: 1" = 160' DATE:

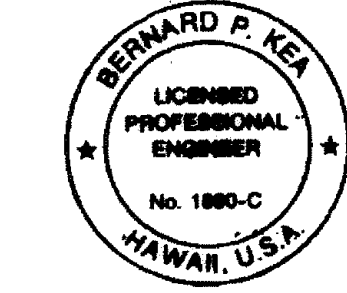
SHEET No. 4 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PMT-H1C-01-97			



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

**PHASE II**  
Scale: 1"=160'



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HIGHWAYS DIVISION

**TRAFFIC CONTROLS**  
MANAGER'S DRIVE BRIDGE WIDENING  
INTERSTATE ROUTE H-1  
PHASE II

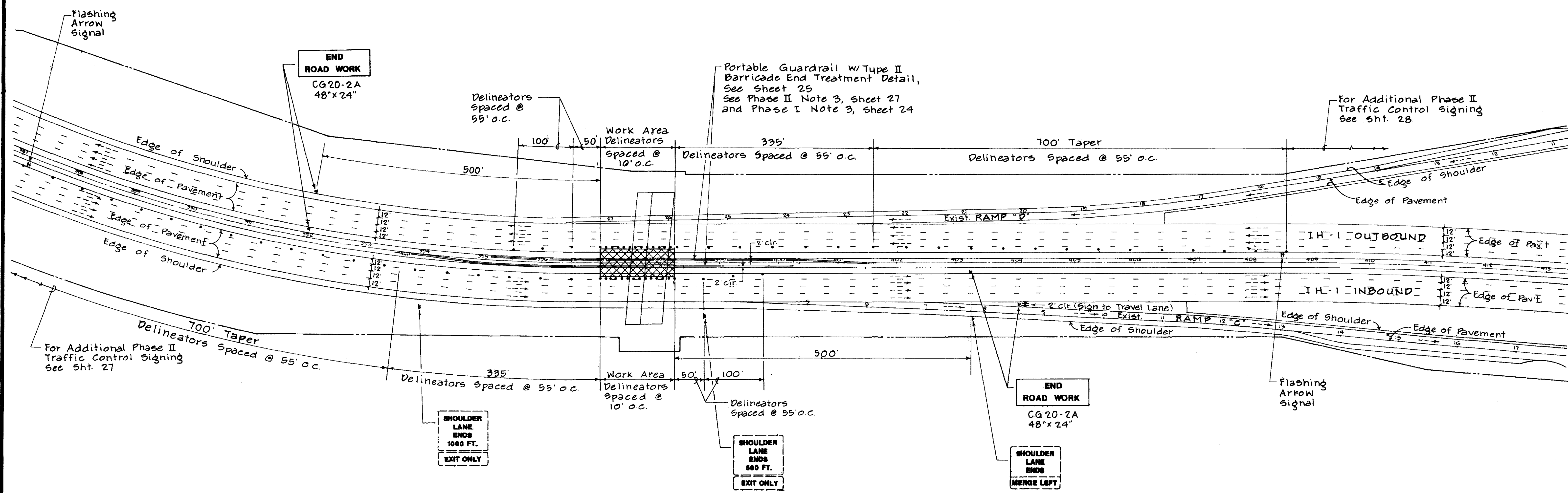
SCALE: 1" = 160'      DATE:

**SHEET NO. 5 OF 13 SHEETS**



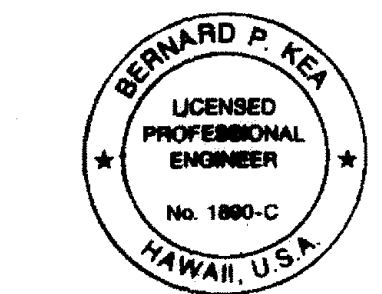
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PMT-HIC-01-17			

TRUE NORTH  
SCALE: 1" = 80'



INSET - PHASE II  
Scale: 1" = 80'

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



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DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TRAFFIC CONTROLS**

MANAGER'S DRIVE BRIDGE WIDENING  
INTERSTATE ROUTE H-1  
PHASE II

SCALE: 1" = 80'      DATE:

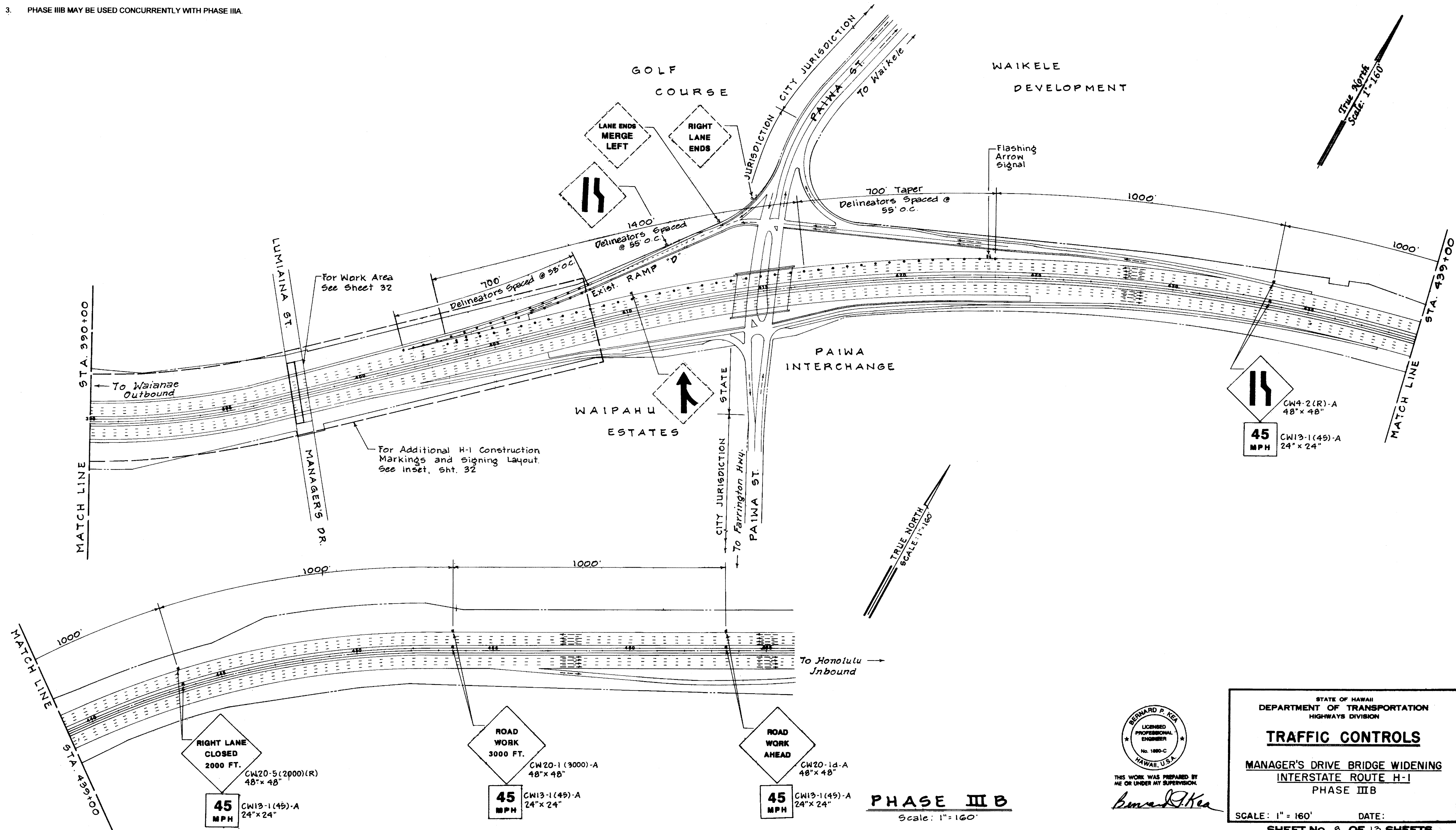
**SHEET No. 6 OF 13 SHEETS**



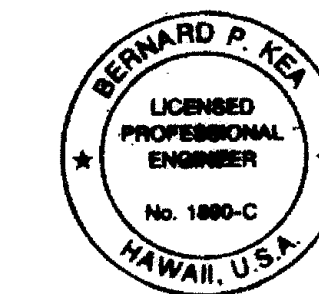
# PHASE IIIB NOTES

1. LOCATIONS FOR ALL CONSTRUCTION SIGNS SHALL BE APPROVED IN THE FIELD BY DOT.
2. IMPLEMENTATION OF PHASE IIIB SHALL NOT BE USED CONCURRENTLY WITH PHASE II.
3. PHASE IIIB MAY BE USED CONCURRENTLY WITH PHASE IIIA.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PMT-H1C-01-97			



SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TRAFFIC CONTROLS**

MANAGER'S DRIVE BRIDGE WIDENING  
INTERSTATE ROUTE H-1  
PHASE IIIB

SCALE: 1" = 160' DATE:

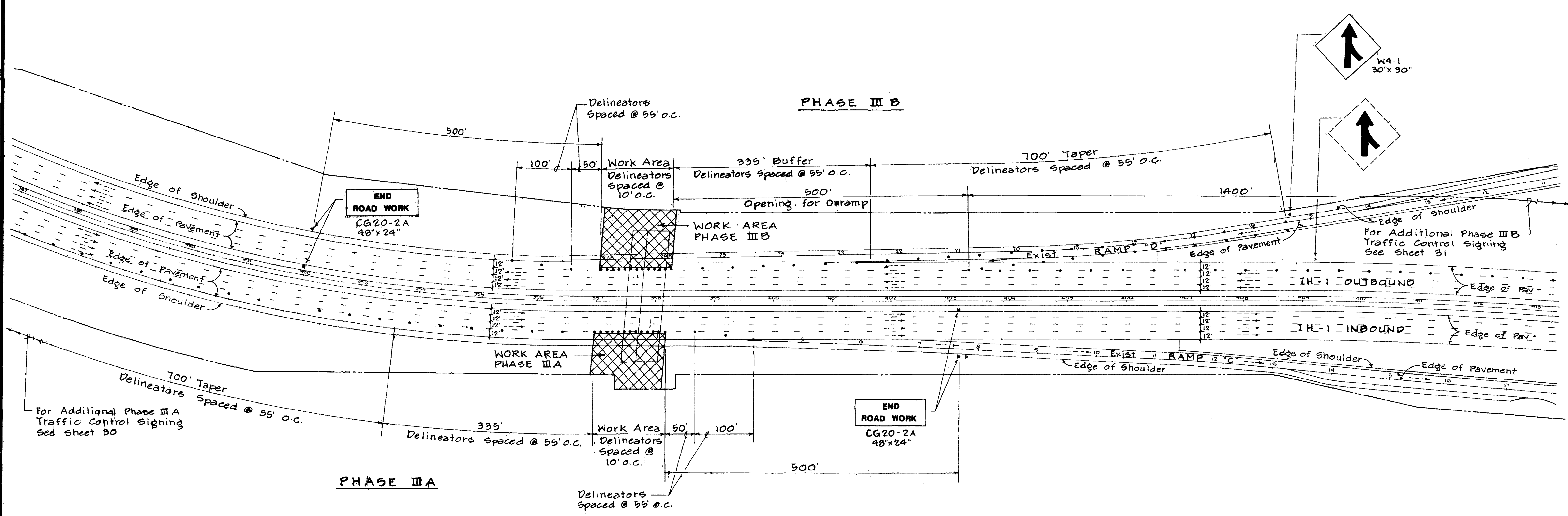
SHEET NO. 8 OF 13 SHEETS

**PHASE IIIB**  
Scale: 1"=160'



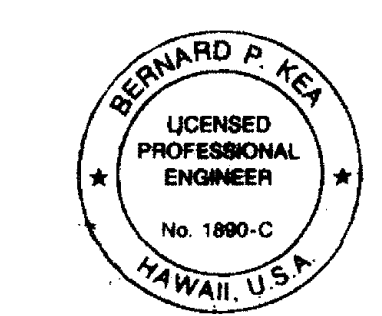
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PMT-HIC-01-97			

TRUE NORTH  
SCALE: 1" = 80'



**INSET - PHASE III A & III B**  
Scale: 1" = 80'

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



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STATE OF HAWAII  
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HIGHWAYS DIVISION

**TRAFFIC CONTROLS**

MANAGER'S DRIVE BRIDGE WIDENING  
INTERSTATE ROUTE H-1  
PHASE III A & III B

SCALE: 1" = 80' DATE: \_\_\_\_\_

**SHEET NO. 9 OF 13 SHEETS**





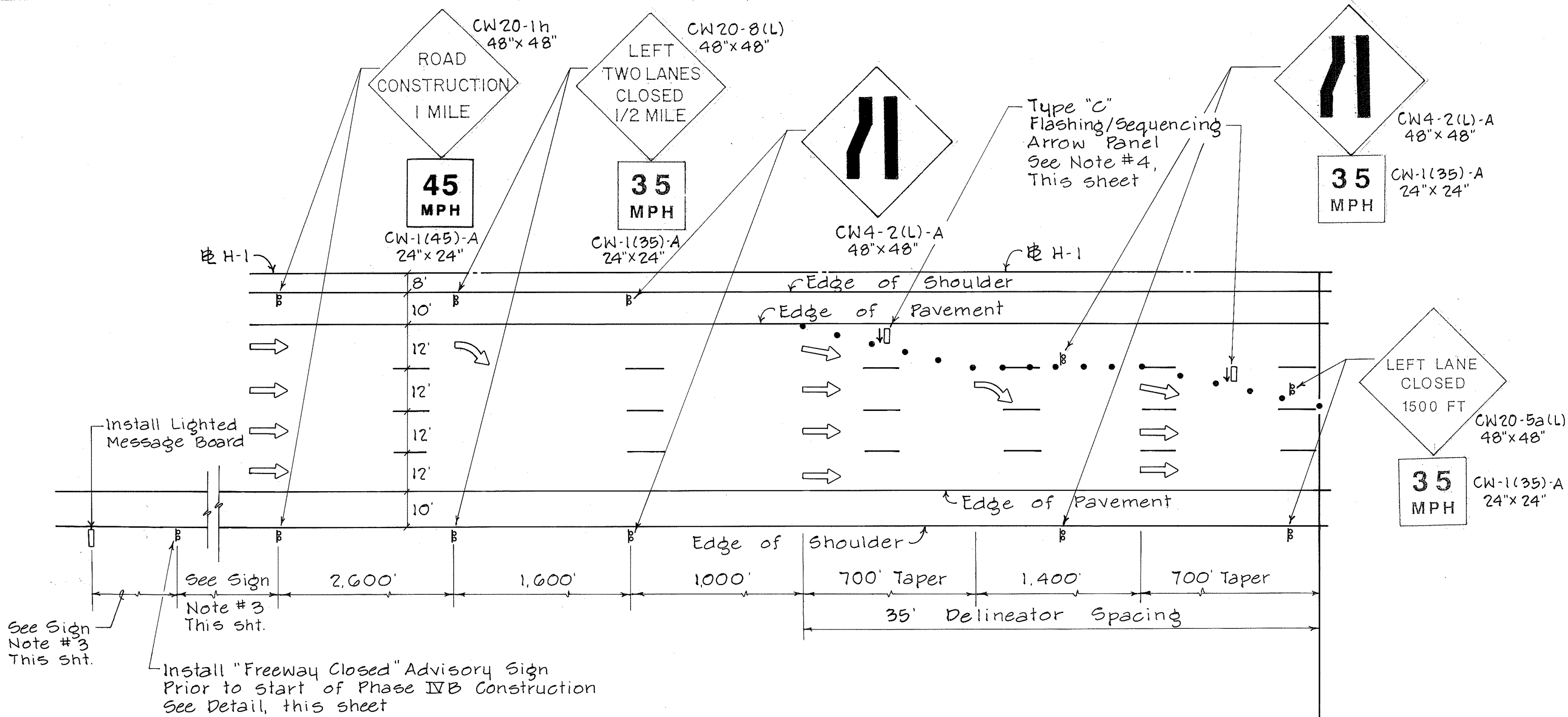
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	PMT-H1C-01-97			

### LEGEND

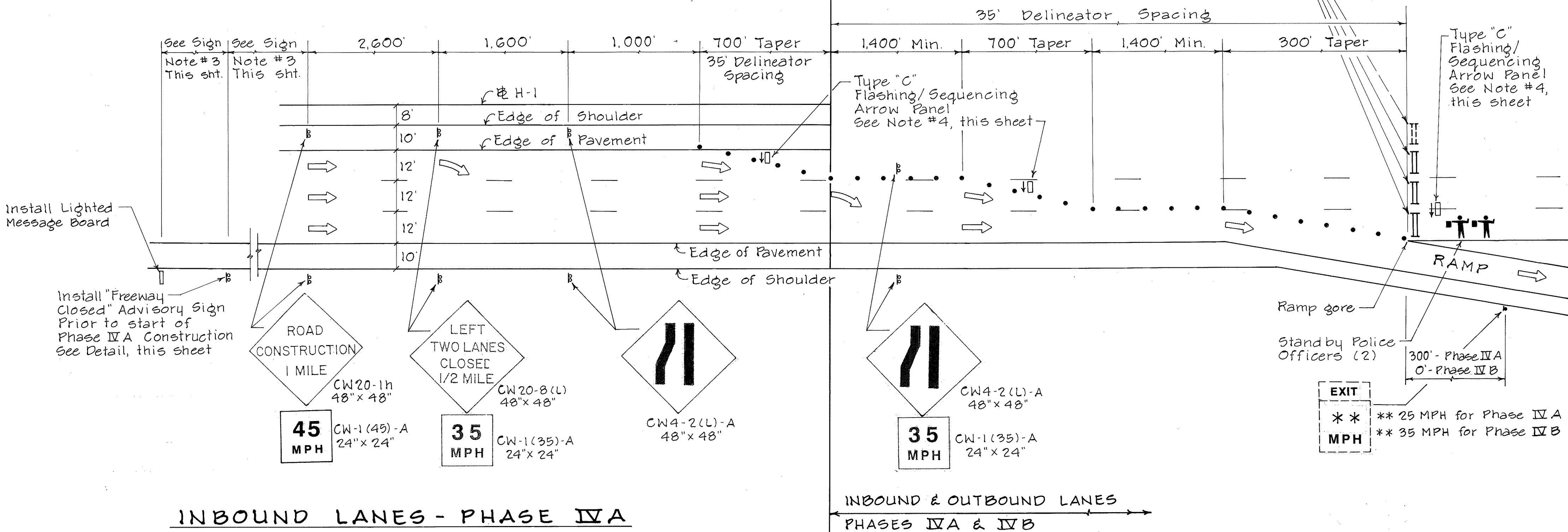
- Traffic Delineator (Reflectorized Tubular Markers)
- ≡ Type III Barricade
- Portable Concrete Guard Rail w/ Steady Burn Lamp
- ⊞ Sign
- ⇒ Direction of Traffic
- ⬇ Type "C" Flashing/Sequencing Arrow Panel
- ⊞ Stand by Police Officer

### NOTES

- THE CONTRACTOR SHALL CLOSE INBOUND AND OUTBOUND LANES AND "ON-RAMPS" ONLY BETWEEN THE HOURS OF 10:00 P. M. TO 4:00 A. M. OF A WORK DAY (FROM SUNDAY NIGHT TO FRIDAY MORNING).
- MAXIMUM LENGTH OF FREEWAY CLOSURE IN ONE DIRECTION (INBOUND OR OUTBOUND) SHALL BE ONE WEEK.
- LOCATIONS FOR ALL CONSTRUCTION SIGNS SHALL BE APPROVED IN THE FIELD BY DOT.
- FLASHING/SEQUENCING ARROW PANEL SHALL BE TYPE "C" AND SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD.
- FALSE WORK FOR STRUCTURE SHALL PROVIDE FOR A MINIMUM OF 16'-6" VERTICAL CLEARANCE AT TRAVELWAY IH-1.
- THE CONTRACTOR SHALL MAKE PROVISIONS TO ENSURE THAT SAFE AND UNRESTRICTED PASSAGE, ALONG THE H-1 IN BOTH DIRECTIONS, IS AVAILABLE TO EMERGENCY VEHICLES AT ALL TIMES.
- DELINEATOR TUBES ARE NOT DRAWN TO SCALE. FOR EXACT AMOUNT OF DELINEATOR TUBES, REFER TO SPACING DIMENSION.
- ALL GROUND MOUNTED SIGNS SHALL BE ON PORTABLE MOUNTS, OR AS DIRECTED BY THE ENGINEER.



### OUTBOUND LANES - PHASE IV B



### INBOUND LANES - PHASE IV A

## TYPICAL FREEWAY CLOSURE PLAN

NOT TO SCALE

### SIGN NOTES

- MINIMUM SIZE: 4' X 8'
- LETTERS SHALL BE SERIES D, 8" HIGH.
- LOCATIONS SHALL BE APPROVED IN THE FIELD BY DOT.
- CORRECT DATES OF BEGINNING AND END OF FREEWAY CLOSURE SHALL BE INCLUDED IN THE SIGN MESSAGE AS DETERMINED BY THE CONTRACTOR BASED ON DOT'S APPROVAL.
- SIGNS SHALL BE ILLUMINATED BY FLOODLIGHTS, OR OTHER MEANS, TO ENSURE VISIBILITY TO NIGHT TIME MOTORISTS.
- SIGNS SHALL BE ERECTED ONE WEEK PRIOR TO BEGINNING OF FREEWAY CLOSURE AND REMOVED UPON COMPLETION OF PHASE IV A AND/OR PHASE IV B.

H-1 FREEWAY CLOSED  
PAIWA ST. TO KUNIA RD.  
BEG. (DATE)\* TO (DATE)\*  
10:00 PM TO 4:00 AM  
SUN\* TO FRI\*

\*See Sign Note #4

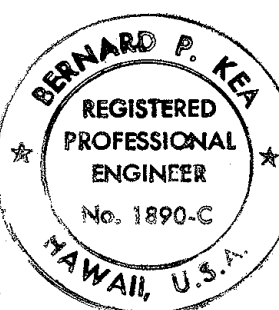
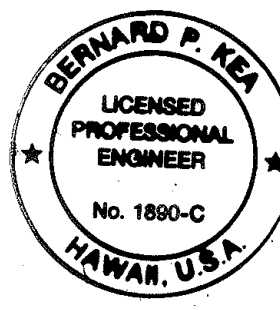
### DETAIL - FREEWAY CLOSURE SIGN (PHASE IVB - OUTBOUND LANES & PAIWA STREET)

H-1 FREEWAY CLOSED  
KUNIA RD. TO PAIWA ST.  
BEG. (DATE)\* TO (DATE)\*  
10:00 PM TO 4:00 AM  
SUN\* TO FRI\*

\*See Sign Note #4

### DETAIL - FREEWAY CLOSURE SIGN (PHASE IVA - INBOUND LANES & KUNIA ROAD)

EXIT  
\*\* 25 MPH for Phase IV A  
\*\* 35 MPH for Phase IV B



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

TRAFFIC CONTROLS

MANAGER'S DRIVE BRIDGE WIDENING  
INTERSTATE ROUTE H-1  
PHASE IVA & IVB

NOT TO SCALE DATE:

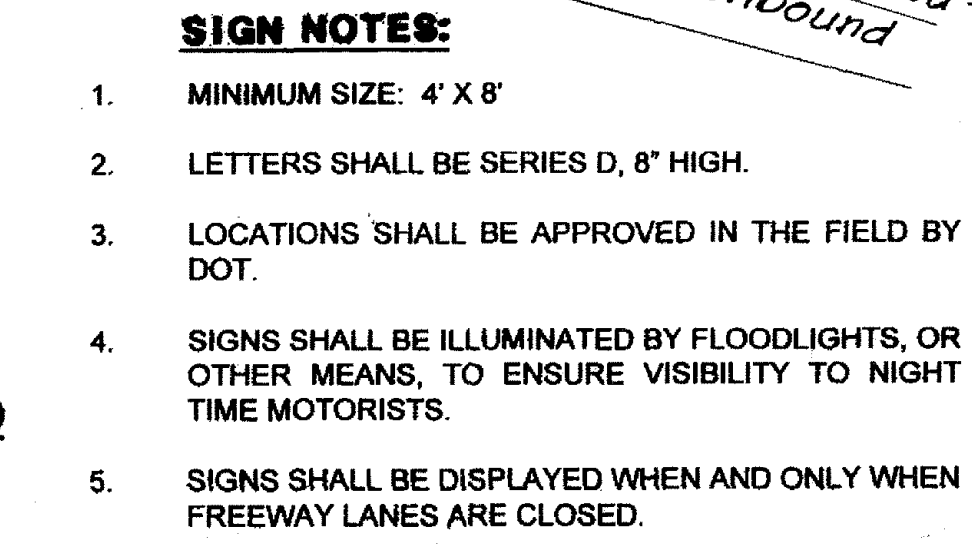
SHEET NO. 11 OF 13 SHEETS

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Bernard P. Kea



1. THE CONTRACTOR SHALL CLOSE OUTBOUND LANES AND "ON-RAMPS" ONLY BETWEEN THE HOURS OF 10:00 P. M. TO 4:00 A. M. OF A WORK DAY.
2. MAXIMUM LENGTH OF FREEWAY CLOSURE IN ONE DIRECTION (OUTBOUND) SHALL BE ONE WEEK PER PHASE IVB IMPLEMENTATION. PHASE IVB IS EXPECTED TO BE IMPLEMENTED TWICE. ONCE FOR INSTALLATION OF BEAMS AND FORM WORK AND ONCE FOR REMOVAL OF FORM WORK.
3. LOCATIONS FOR ALL CONSTRUCTION SIGNS SHALL BE APPROVED IN THE FIELD BY DOT.
4. FLASHING/SEQUENCING ARROW PANEL SHALL BE TYPE "C" AND SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD.
5. FALSE WORK FOR STRUCTURE SHALL PROVIDE FOR A MINIMUM OF 18'-6" VERTICAL CLEARANCE AT TRAVELWAY IH-1.
6. THE CONTRACTOR SHALL MAKE PROVISIONS TO ENSURE THAT SAFE AND UNRESTRICTED PASSAGE ALONG THE H-1 IS AVAILABLE TO EMERGENCY VEHICLES AT ALL TIMES.
7. PHASE IVB CONSTRUCTION ZONE SIGNS, EXCEPT FOR ADVISORY SIGNS, SHALL BE REMOVED WHEN ACTUAL PHASE IVB CONSTRUCTION (OVERHEAD WORK INSTALLATION) IS NOT TAKING PLACE.
8. PHASE I TEMPORARY CONSTRUCTION ZONE STRIPING, MARKERS, MARKINGS AND OTHER TRAFFIC CONTROL MEASURES SHALL REMAIN IN PLACE DURING PHASE IVB.

True North  
Scale: 1"=160'



APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_

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Bernard P. Kea

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TRAFFIC CONTROLS**

**MANAGER'S DRIVE BRIDGE WIDENING**  
**INTERSTATE ROUTE H-1**

**PHASE IV B**

SCALE: 1" = 160'      DATE:

**SHEET No. 12 OF 13 SHEETS**

△ 12-27-96	Added Reapproval Block	CPI	
REVISION DATE	DESCRIPTION	MADE BY	APPROVED



