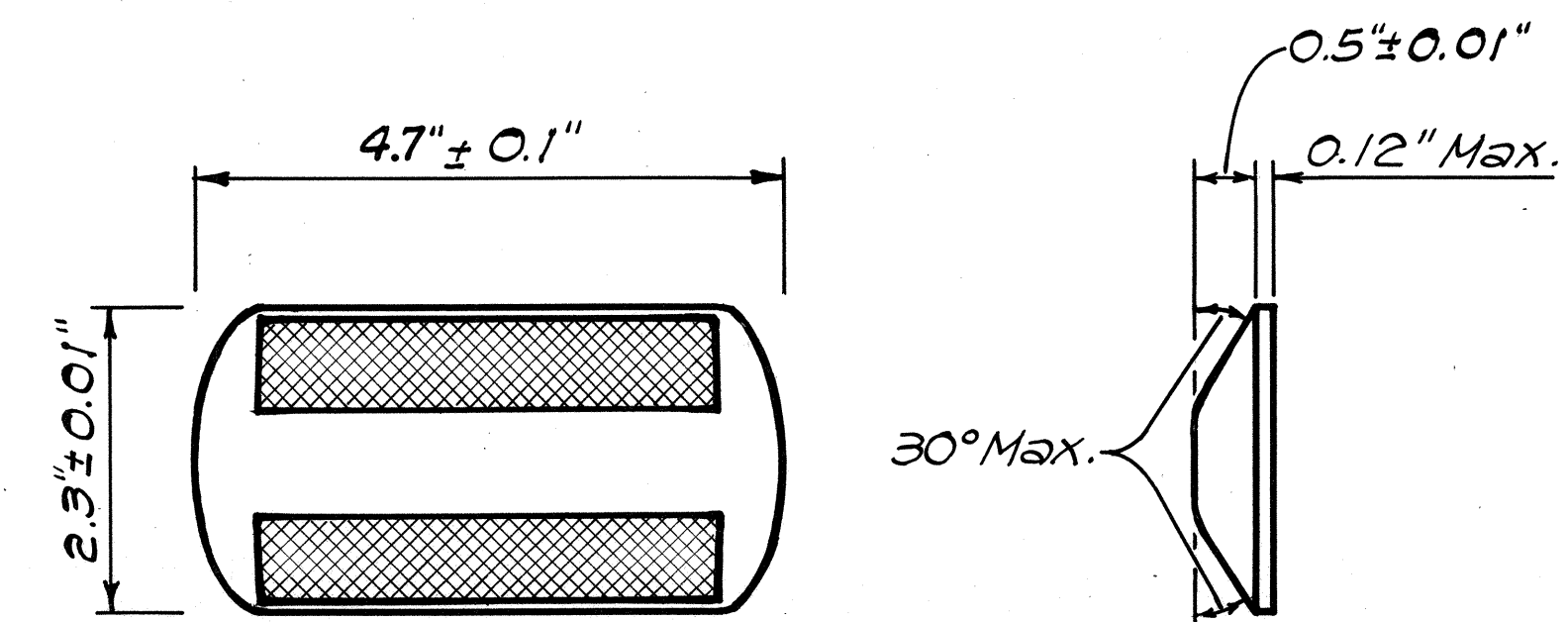


LEGEND

- 4 each Type A Raised Pavement Markers
Type CL Raised Pavement Markers @ 40'-0" o.c.
- 4 each Type J Raised Pavement Markers
Type DL Raised Pavement Markers @ 40'-0" o.c.
- 8" White Stripe with Type CL Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I)
- 4" Double Solid Yellow Stripes with Type DL Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I)
- 4" Double Solid Yellow Stripes with Type HL Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Yellow Edge Stripe with Type HL Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Double Solid White Stripes with Type CL Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I)
- Lane Change Restriction Marking
- 4 each Type A Raised Pavement Markers
Type CL Raised Pavement Markers @ 20'-0" o.c.
4" Solid White Stripe (Tape, Type I)
- 4" White Edge Stripe (Tape, Type II or Thermoplastic Extrusion) or as noted
- 4" White Guide Lines (Thermoplastic Extrusion)
- Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)
- Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)
- Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)
- Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment. (Thermoplastic Extrusion)
- Pavement Arrow (Tape, Type I)
- STOP Pavement Word (Tape, Type I)
- 12" White Stop Line (Thermoplastic Extrusion)
- 4 each Type J Raised Pavement Markers
Type DL Raised Pavement Markers @ 40'-0" o.c.
Type HL Raised Pavement Markers (Reflective Surface facing no-passing direction)
4" Single Solid Yellow Strip (Tape, Type I)
- Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type CL Markers @ 40'-0" o.c. (Thermoplastic Extrusion)
- Reversible Lane Centerline
10'-0" Long, 4" Double Solid Yellow Stripes @ 40' o.c. w/Type DL @ 20' o.c.

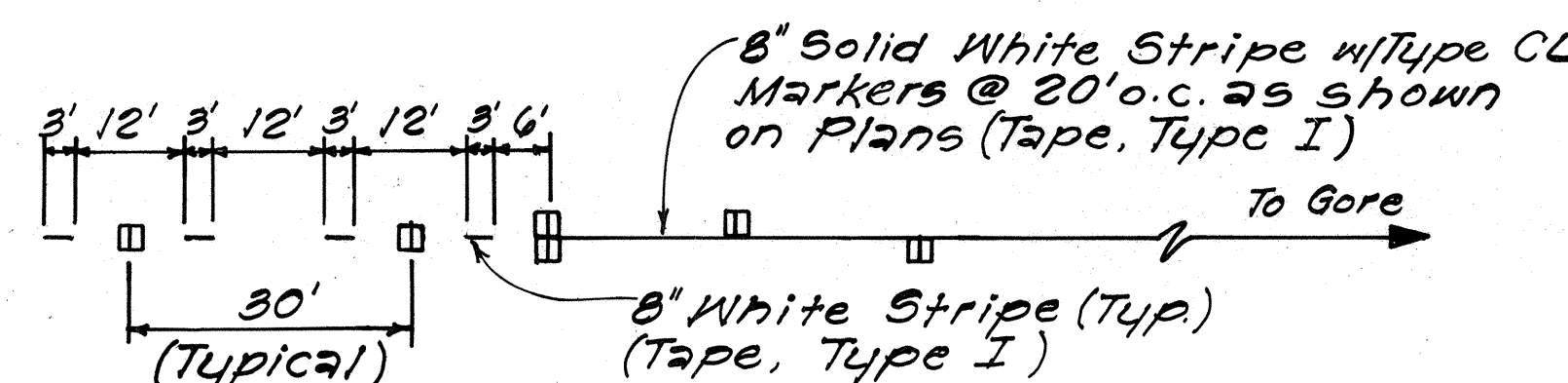
NOTES

- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
- Raised pavement markers shall not be installed within crosswalks.
- Details of Type C, Type D and Type H Markers on Standard Plan Nos. TE-30, TE-31 and TE-32 shall be deleted and replaced with details of Type CL, Type DL and Type HL Markers as shown on this sheet. All references to Type C, Type D and Type H Markers in the plans shall mean Type CL, Type DL and Type HL Markers.
- Final locations of all signs shall be approved by the Engineer prior to any installation work.
- Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
- Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
- All pavement striping shall be as noted on the Legend or plans.
- All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.



TYPE CL
Red-Clear Reflective Marker
or
TYPE DL
Two-Way Yellow Reflective Marker
or
TYPE HL
One-Way Yellow Reflective Marker
Not to Scale

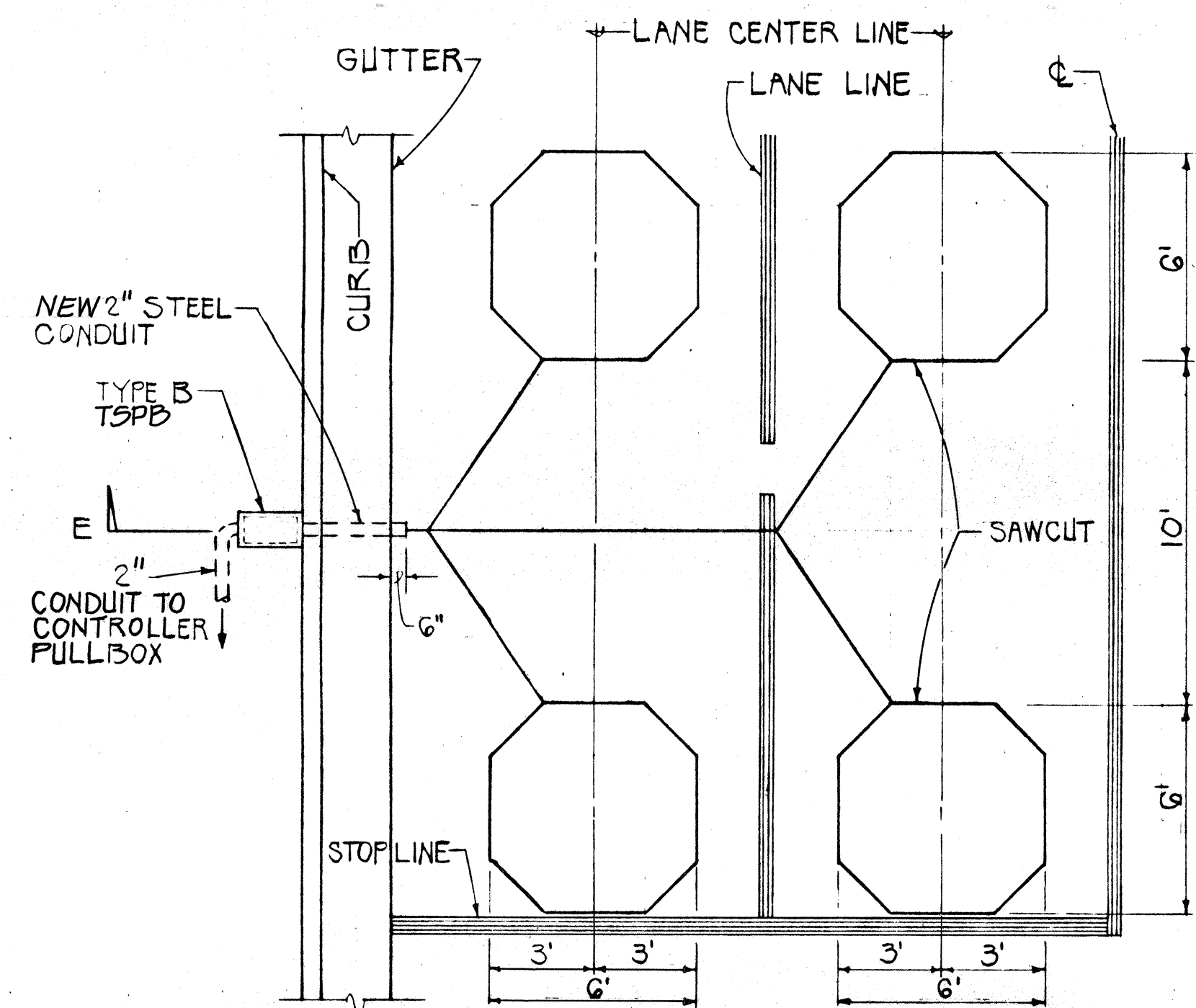
CONSTRUCTION SIGN SCHEDULE		
STREET	LOCATION	SIGN #/POSTS
KAPIOLANI BLVD.	Sta. 10+10, Rt. (+) " 8+00, Lt. (-)	CW20-1d CG20-2
KING ST.	Sta. 13+25, Lt. (+) " 13+25, Rt. (+)	CW20-1d CG20-2
WAIALAE AVE.	500' East of Lt. (-) Kapahulu Ave., Rt. (+)	CW20-1d CG20-2
KAPAHULU AVE.	Sta. 7+00, Rt. (+) " 7+00, Lt. (-)	CW20-1d CG20-2
HARDING AVE.	Sta. 28+00, Lt. (-) " 28+00, Rt. (+)	CW20-1d CG20-2
OLD WAIALAE RD.	500' Northeast, Rt. of Kapiolani Blvd., Lt.	CG20-2 CG20-2
1 ST AVE.	250' North of Harding Ave., Rt.	CW20-1d
2 ND AVE.	250' North of Harding Ave., Rt. 250' South of Harding Ave., Rt.	CW20-1d CW20-1d



LANE DROP MARKING
Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**PAVEMENT MARKING
LEGEND, DETAIL & NOTES**
H-1 KAPIOLANI INTERCHANGE
RESURFACING OF SOUTH KING ST.
HARDING AVE., KAPIOLANI BLVD. &
KAPAHULU AVE.
PROJECT No. H1J-01-89M
Scale: As Shown Date: May, 1989
SHEET No. 71 OF 4 SHEETS

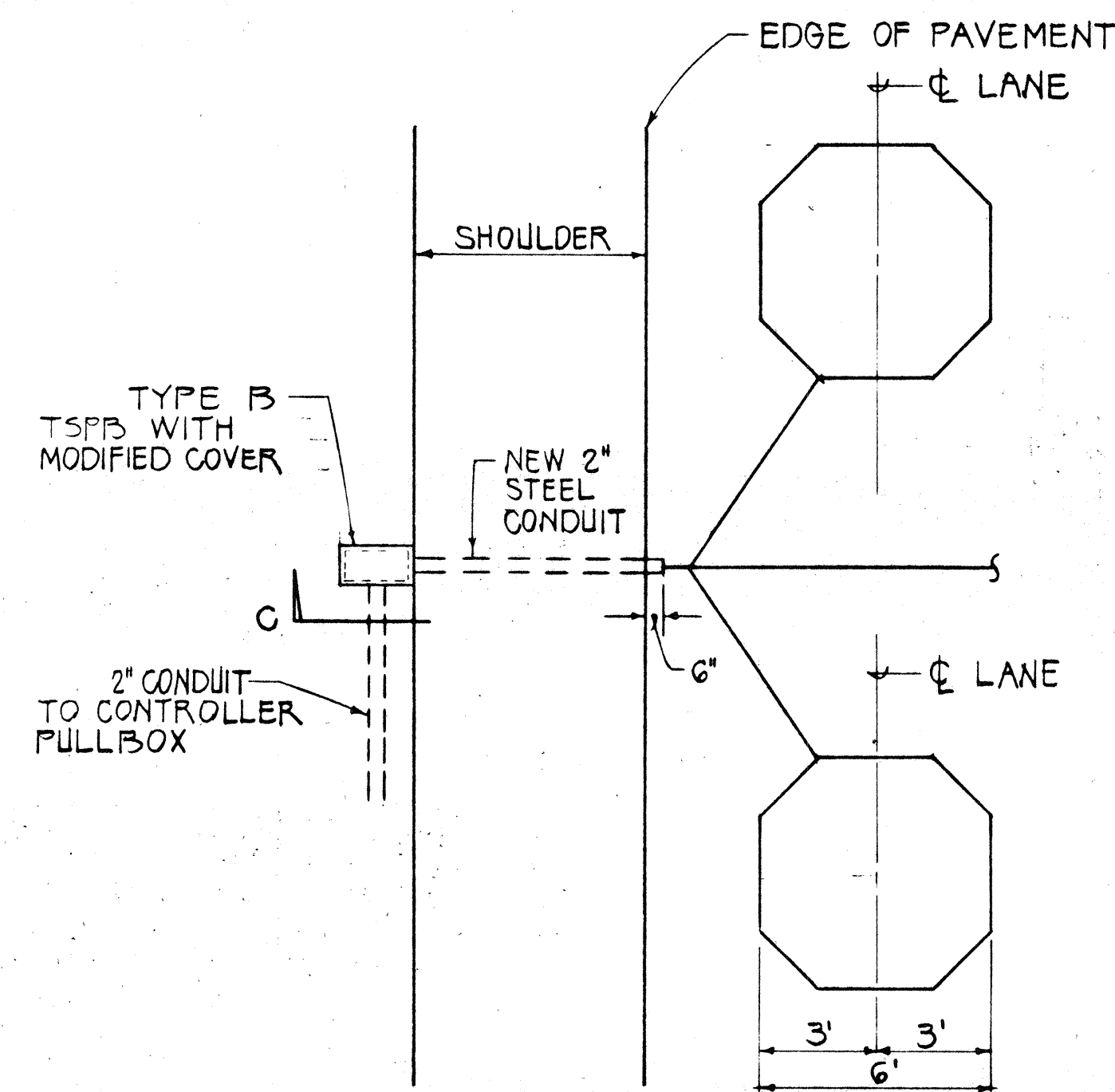
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HJ-01-89M	1989	7	9



NOTE: ADD ONE PAIR OF LOOPS FOR EACH ADDITIONAL LANE

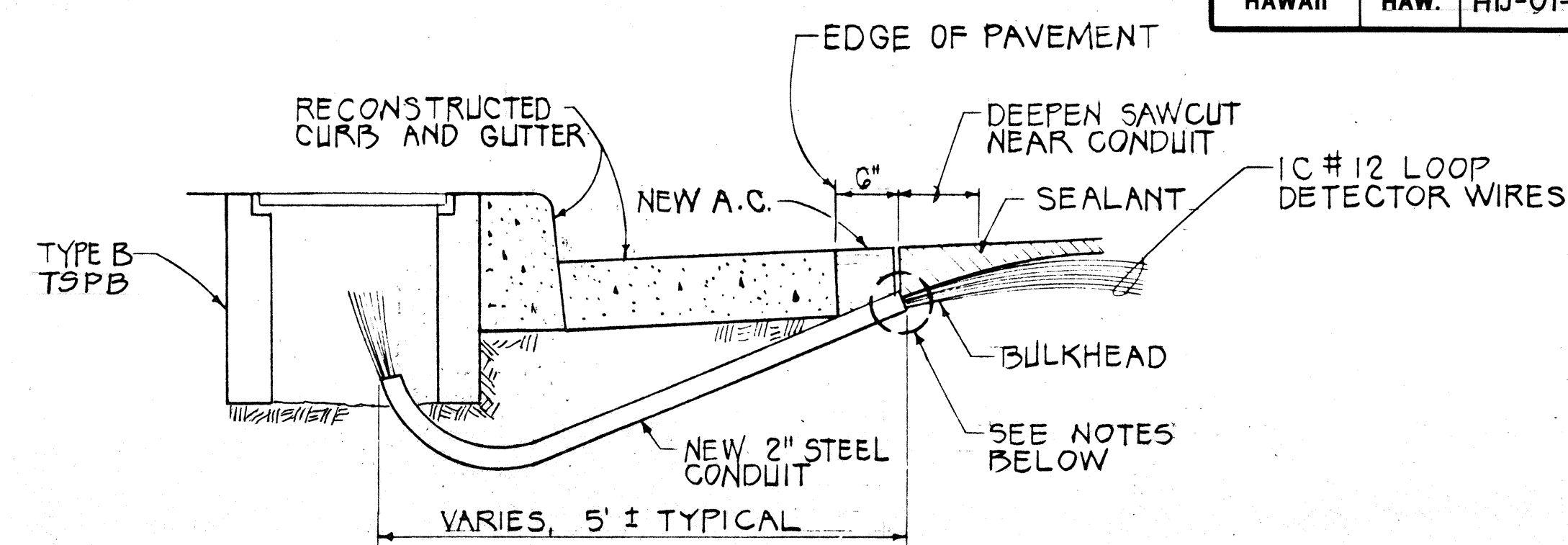
TYPICAL LAYOUT AT STOPLINES

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



TYPICAL LAYOUT AT SHOULDER AREAS

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

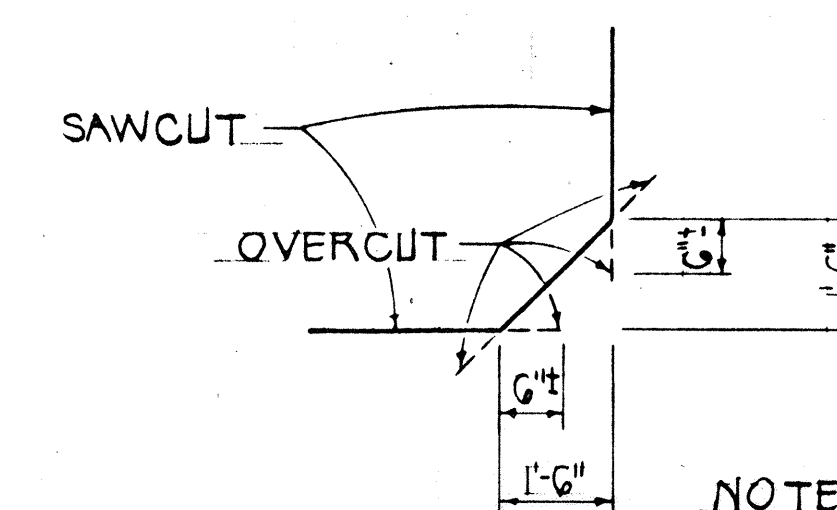


NOTES:

1. SEAL ROADWAY END OF CONDUIT AFTER INSTALLATION OF CONDUCTORS.
2. INSTALL BULKHEAD ACROSS CONDUIT TRENCH.
3. PLACE APPROVED SEALANT IN SAWCUT
4. BACKFILL OVER CONDUIT WITH NEW A.C.
5. RECONSTRUCT CURB AND GUTTER AS REQUIRED.

SECTION E

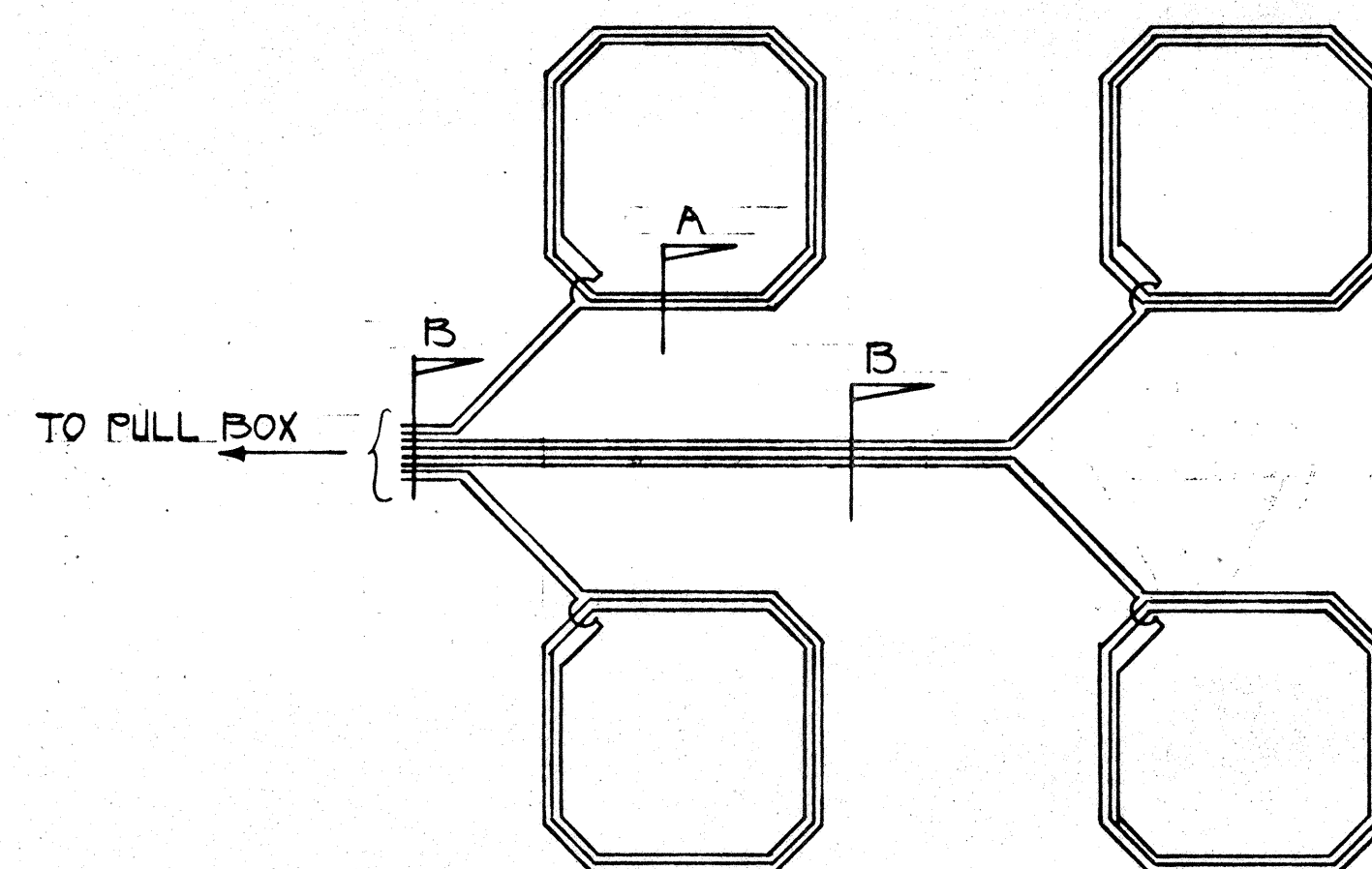
NOT TO SCALE



NOTE: BACKFILL OVERCUTS WITH EPOXY.

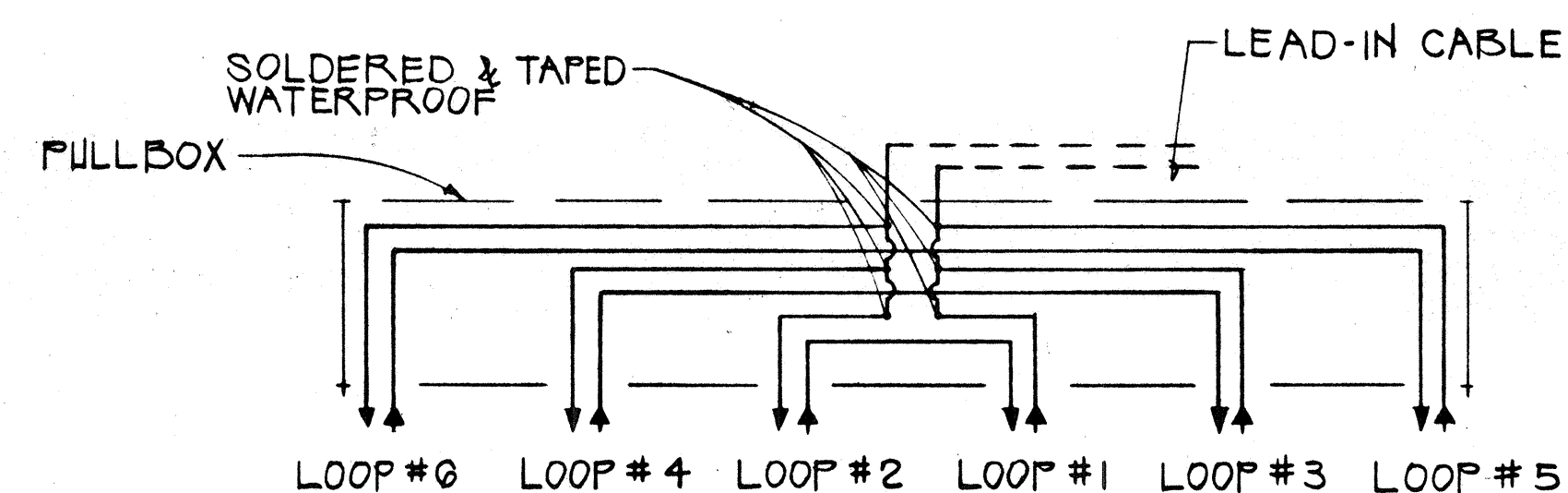
DETAIL OF SAWCUT AT CORNERS

NOT TO SCALE



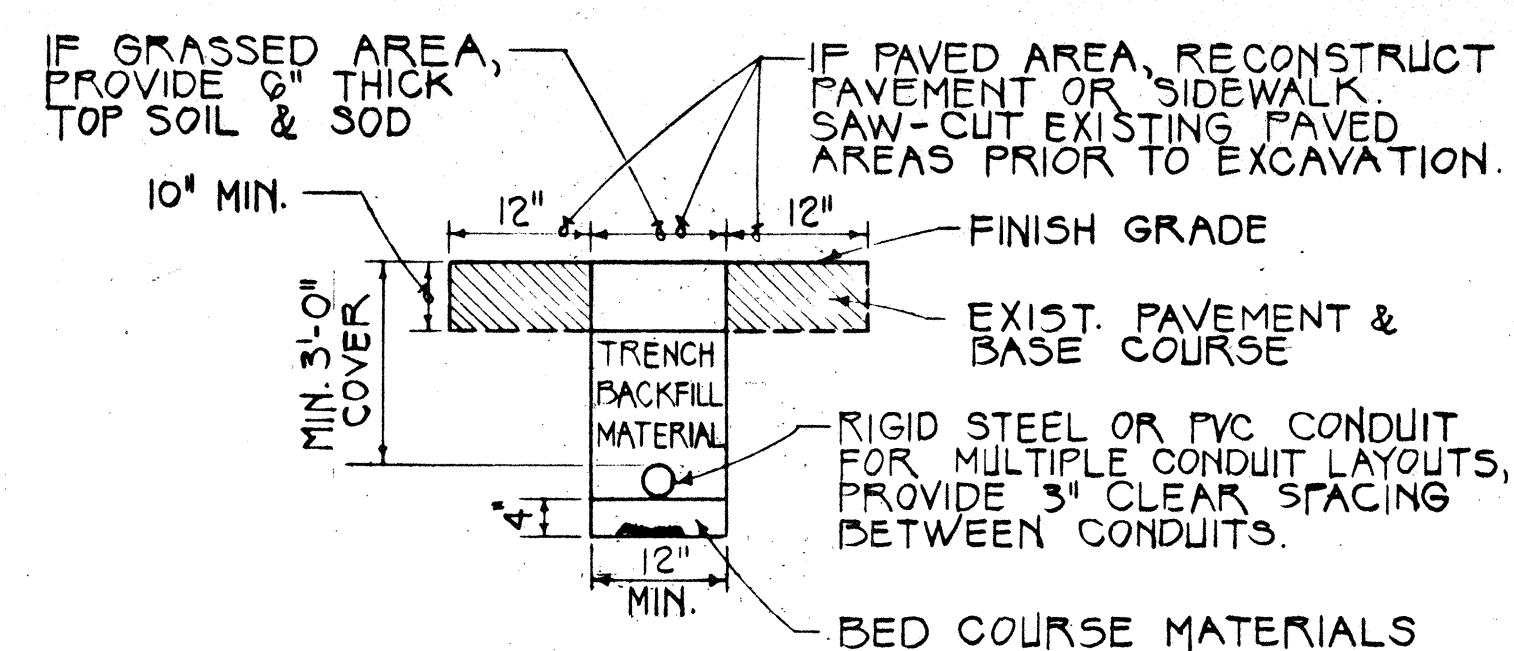
WIRING DIAGRAM

NOT TO SCALE



DETAIL "A"

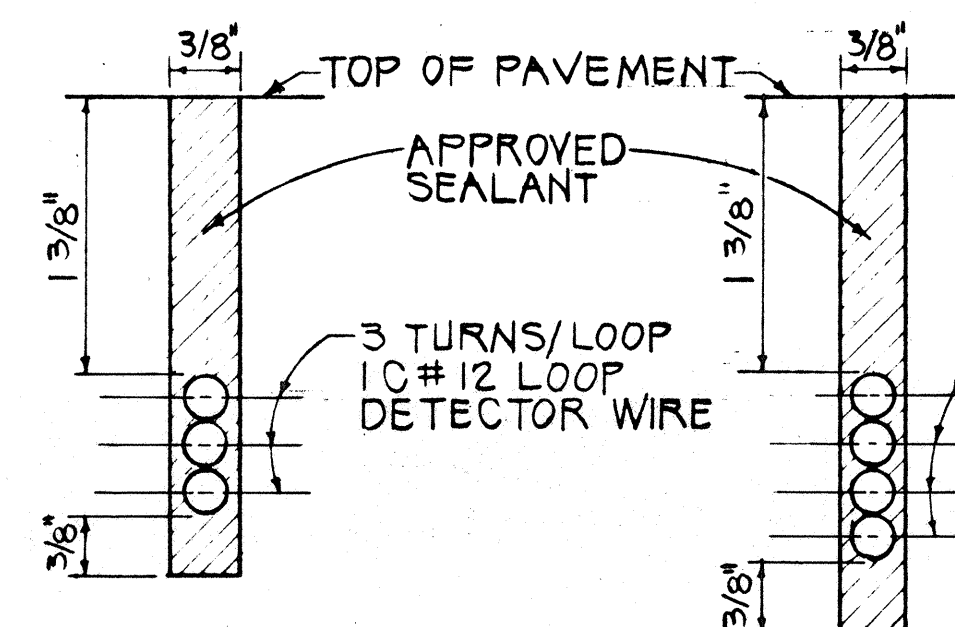
TYPICAL SERIES - PARALLEL LOOP CONNECTION



SECTION C

NOT TO SCALE

NOTE: ALL CONDUITS UNDER ROADWAYS SHALL BE STEEL OR PVC SCHEDULE 80



SECTION A

NOT TO SCALE

SECTION B

NOT TO SCALE

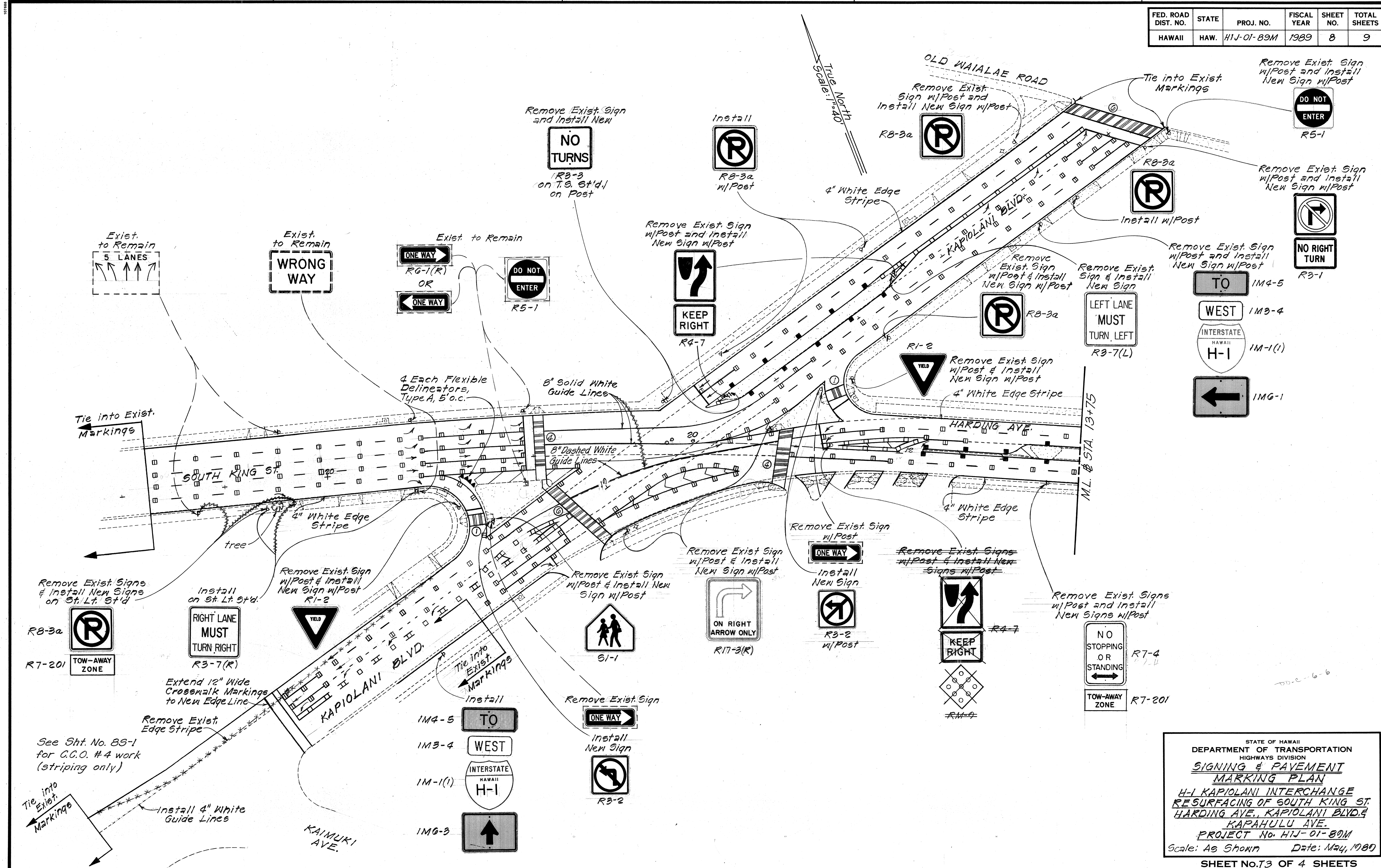
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LOOP DETECTOR DETAIL

H-1 KAPIOLANI INTERCHANGE
RESURFACING OF SOUTH KING ST.
HARDING AVE., KAPIOLANI BLVD. &
KAPAHULU AVE.
PROJECT NO. HJ-01-89M
SCALE: AS NOTED DATE: MAY, 1989
SHEET No. 72 OF 4 SHEETS

DATE	
SURVEYED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

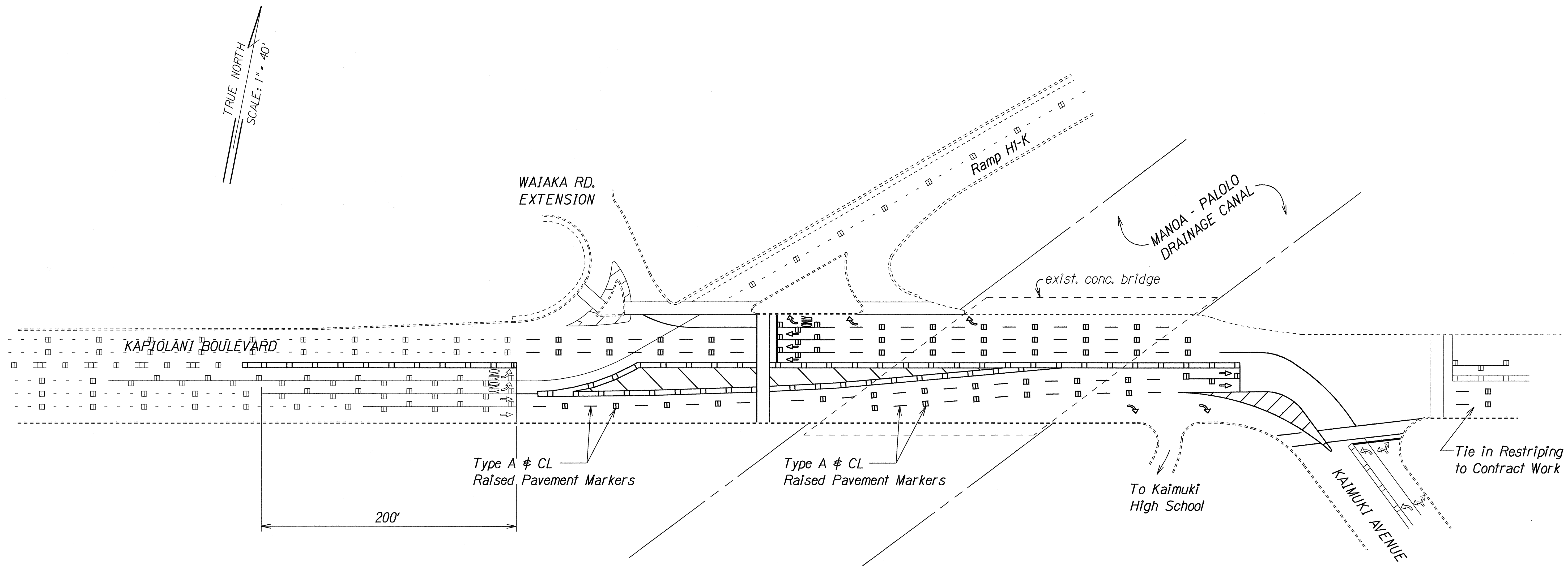
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1J-01-89M	1989	8	9



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN
H-1 KAPIOLANI INTERCHANGE
RESURFACING OF SOUTH KING ST.
HARDING AVE., KAPIOLANI BLVD.,
KAPAHULU AVE.
PROJECT No. H1J-01-89M
Scale: As Shown Date: May, 1989
SHEET No. 8 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIJ-01-89M	1989	8S-1	9



C.C.O. No. 4

Note: This tracing prepared during "As-Built" posting.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	6-23-93
DESIGNED BY	DESIGNED BY	
QUANTITIES BY	QUANTITIES BY	
CHECKED BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

H-1 KAPIOLANI INTERCHANGE
RESURFACING OF SOUTH KING ST.,
HARDING AVE., KAPIOLANI BLVD. &
KAPAHULU AVE.
PROJECT NO. HIJ-01-89M

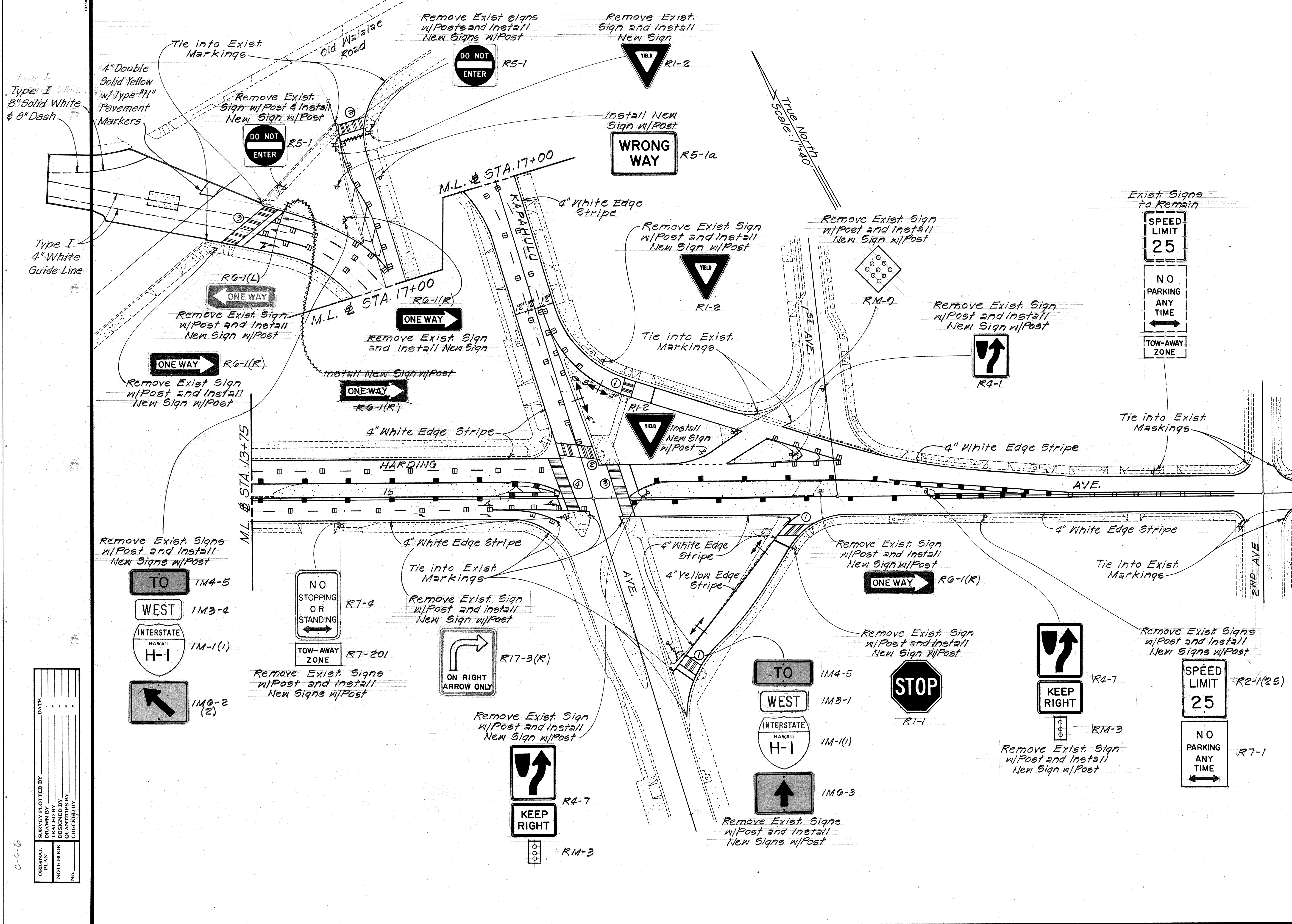
Scale: 1"=40' Date: June, 1993

SHEET No. T3S-1 OF 4 SHEETS

AS-BUILT

8S-1

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H1J-01-89M	1989	9	9



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT
MARKING PLAN
H-1 KAPIOLANI INTERCHANGE
RESURFACING OF SOUTH KING ST.
HARDING AVE, KAPIOLANI BLVD
& KAPAHULU AVE.
PROJECT No. H1J-01-89M
Scale: As Shown Date: May, 1989
SHEET No. 74 OF 4 SHEETS