FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	22	38

LEGEND

4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 40'-0" o.c.

4 each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.

8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Thermoplastic)

4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Thermoplastic)

4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'-0" o.c. (Thermoplastic)

4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Thermoplastic)

4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (Thermoplastic)

Lane Change Restriction Marking
4 each Type A Raised Pavement Markers Unless Noted Otherwise in The Plans
Type C Raised Pavement Markers @ 20'-0" o.c.
4" White Stripe (Thermoplastic)

4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Thermoplastic)

4" White Guide Lines (Thermoplastic)

Transverse Median Marking (Thermoplastic)

Transverse Shoulder Marking (Thermoplastic)

Channelizing Island or Deceleration Lane Gore (Thermoplastic)

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)

Pavement Arrow (Thermoplastic)

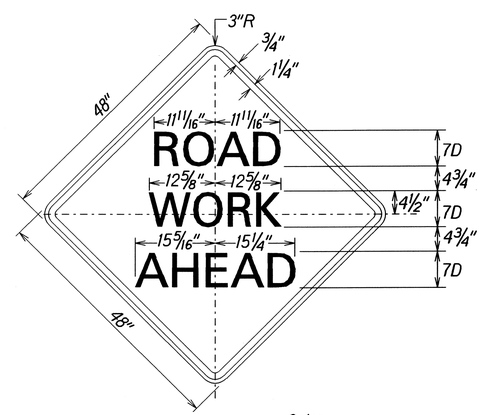
STOP Pavement Word (Thermoplastic)

4 Each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
Type H Raised Pavement Markers (Reflective Surface facing no-passing direction)
4" Single Solid Yellow Stripe (Thermoplastic)

10' 10' 10' 10'
Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Thermoplastic)

NOTES

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. 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.
3. Raised pavement markers shall not be installed within crosswalks.
4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
5. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
6. All pavement striping shall be as noted on the legend or plans.
7. 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.
8. The Contractor shall erect at the beginning of the project and at the end of the project advance construction warning signs placed as indicated on the plans or as directed by the Engineer for the duration of the highway project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs called for in Section 645 - Traffic Control. The advance construction warning signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the District Baseyard, or as directed by the Engineer, upon the completion of the project.



CW20-1Ad
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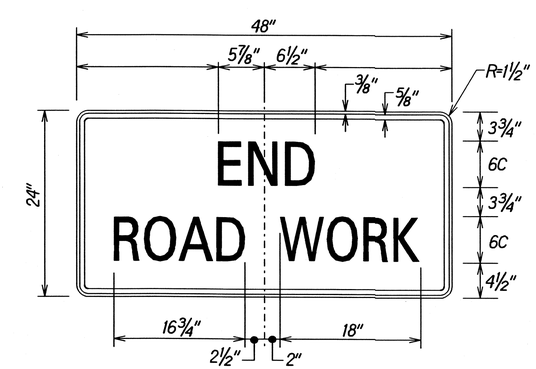
Colors:
Legend: Black (Non Refl)
Background: Orange



CG20-2A
Scale: 1 1/2" = 1'-0"
Colors:
Legend: Black (Non Refl)
Background: Orange (Relf)

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

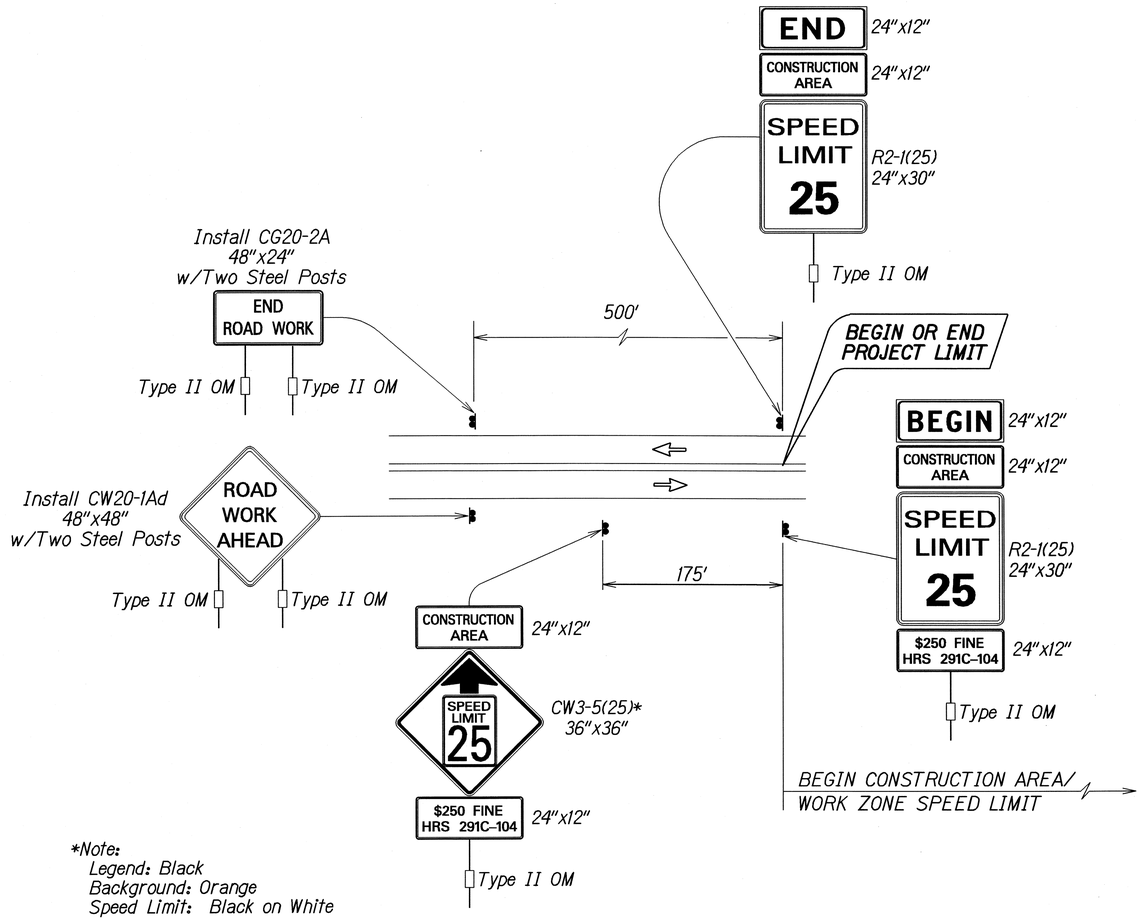
PAVEMENT MARKING LEGEND, DETAILS & NOTES

KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: As Noted Date: February, 2009

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	23	38

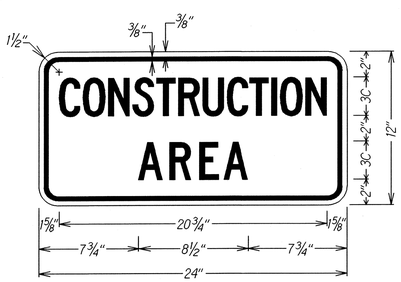


*Note:
Legend: Black
Background: Orange
Speed Limit: Black on White

TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON TWO LANE OR MULTILANE UNDIVIDED LOW SPEED HIGHWAY

Work Zone Notes:

1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(25) and CW3-5(25) with "CONSTRUCTION AREA" and "$250 FINE HRS 291C-104" Supplemental Signs).
3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
4. Each construction warning sign shall have a minimum of two (2) Type II OM. Each work zone speed limit assembly shall have a minimum of one (1) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 631.1100, Construction Sign with Posts.
5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
7. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 631.1100, Construction Sign with Posts.



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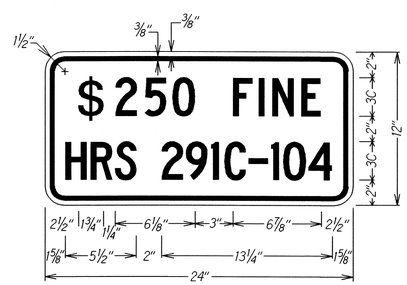
BACKGROUND: ORANGE



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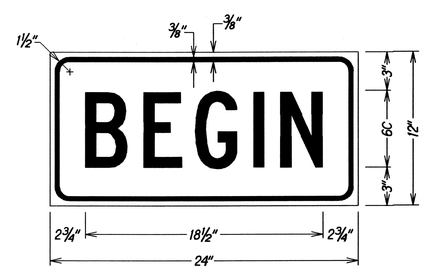

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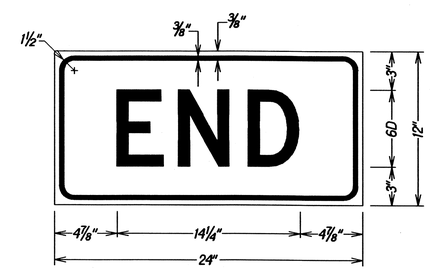


LEGEND: BLACK
BACKGROUND: ORANGE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

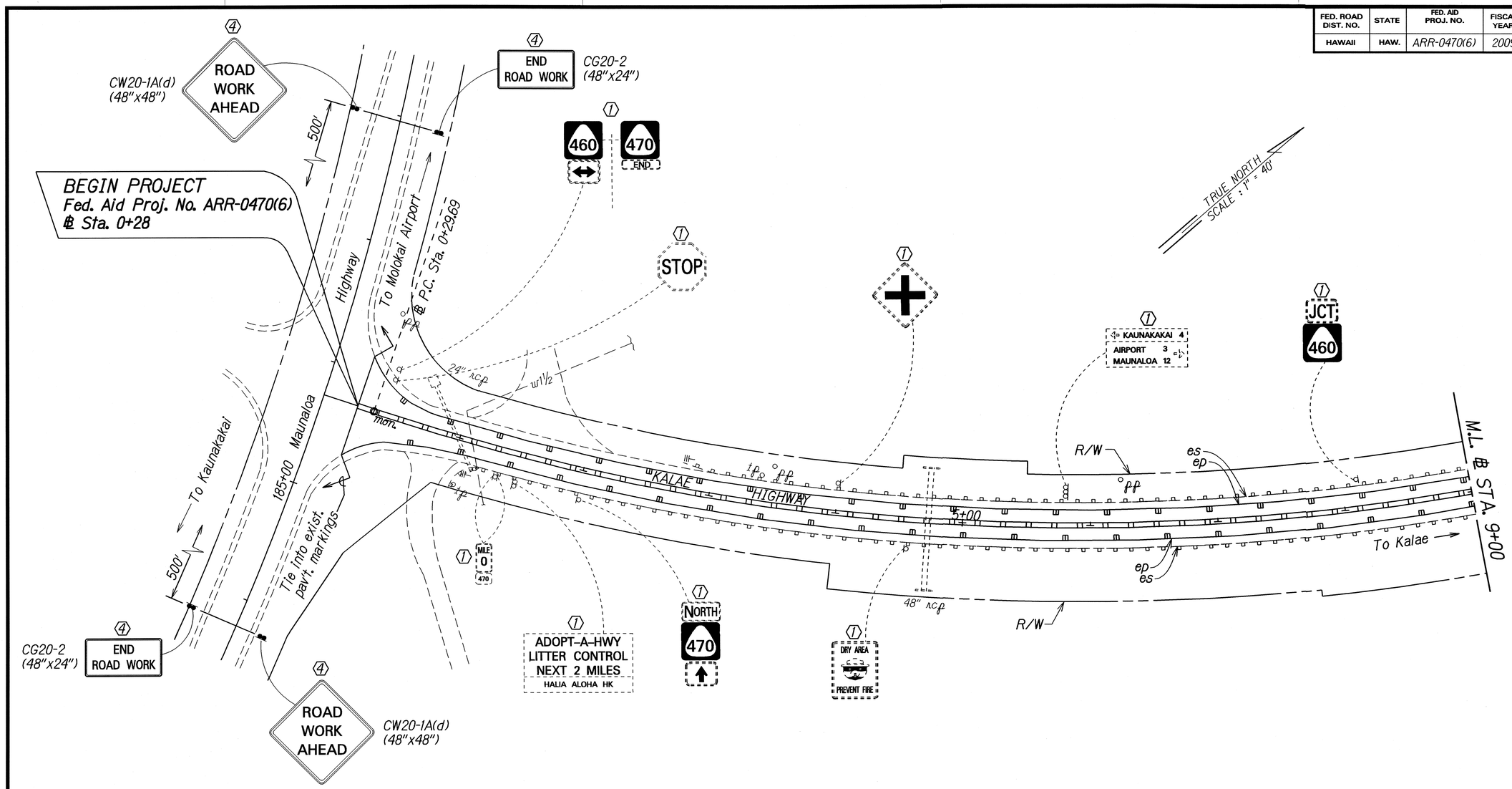
LOW SPEED UNDIVIDED HIGHWAY
WORK ZONE SIGNING PLAN, NOTES & DETAILS
KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)
Not To Scale Date: February, 2009

SHEET No. 1 OF 1 SHEETS

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

r5/21/08 /usr2/lynne/steve/constr_signs/consignshwy2lnlsp.dgn

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	24	38



KEY:

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2. Remove Exist. Sign(s) & Post(s)
3. Remove Exist. & Install New Sign(s) & Post(s)
4. Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

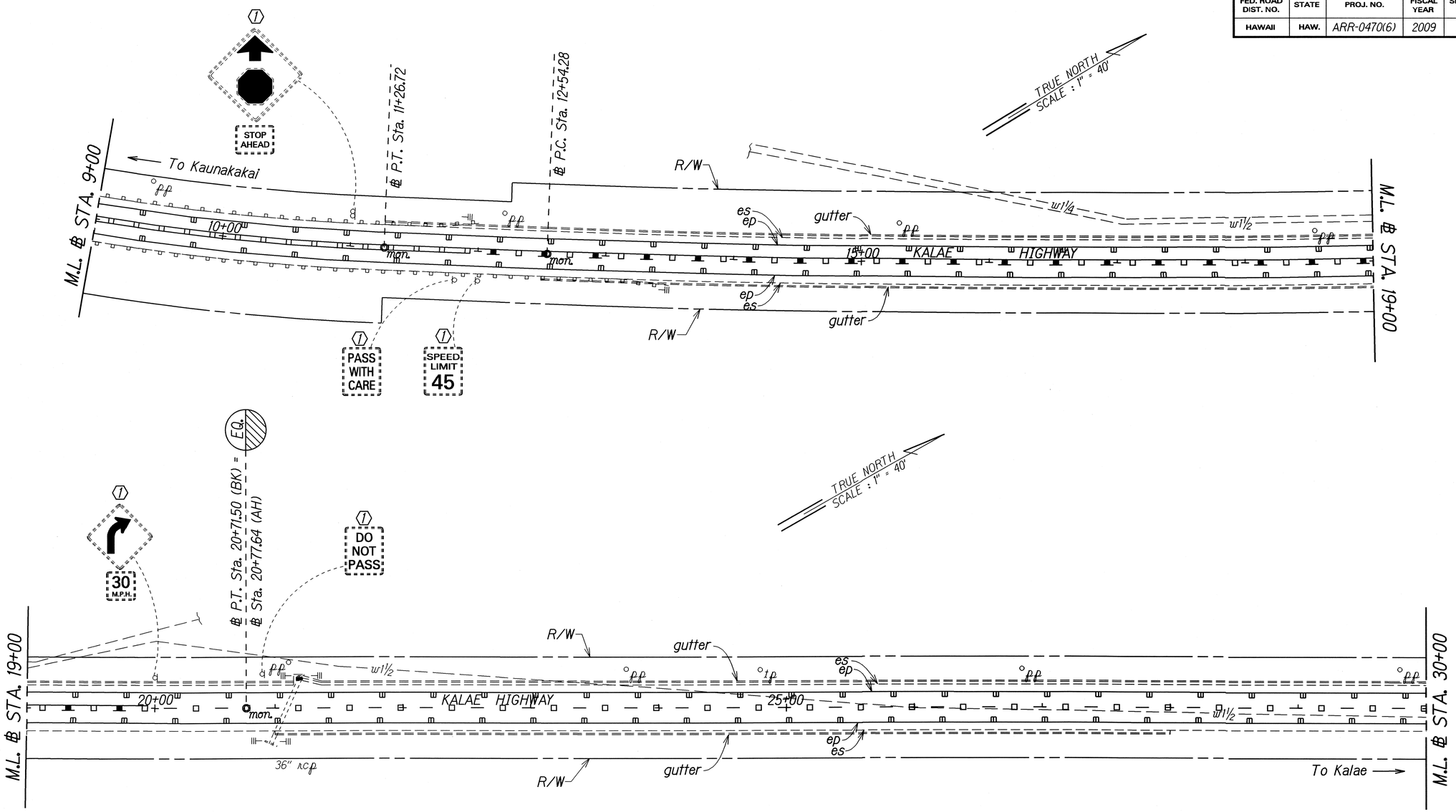
KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" =40' Date: February, 2009

SHEET No. 1 OF 15 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	25	38



KEY:

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2. Remove Exist. Sign(s) & Post(s)
3. Remove Exist. & Install New Sign(s) & Post(s)
4. Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

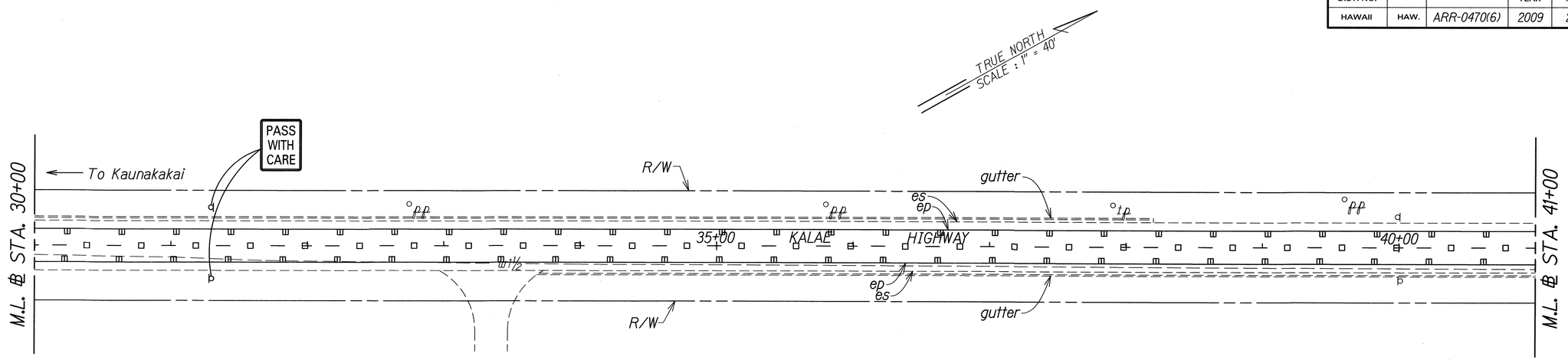
KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

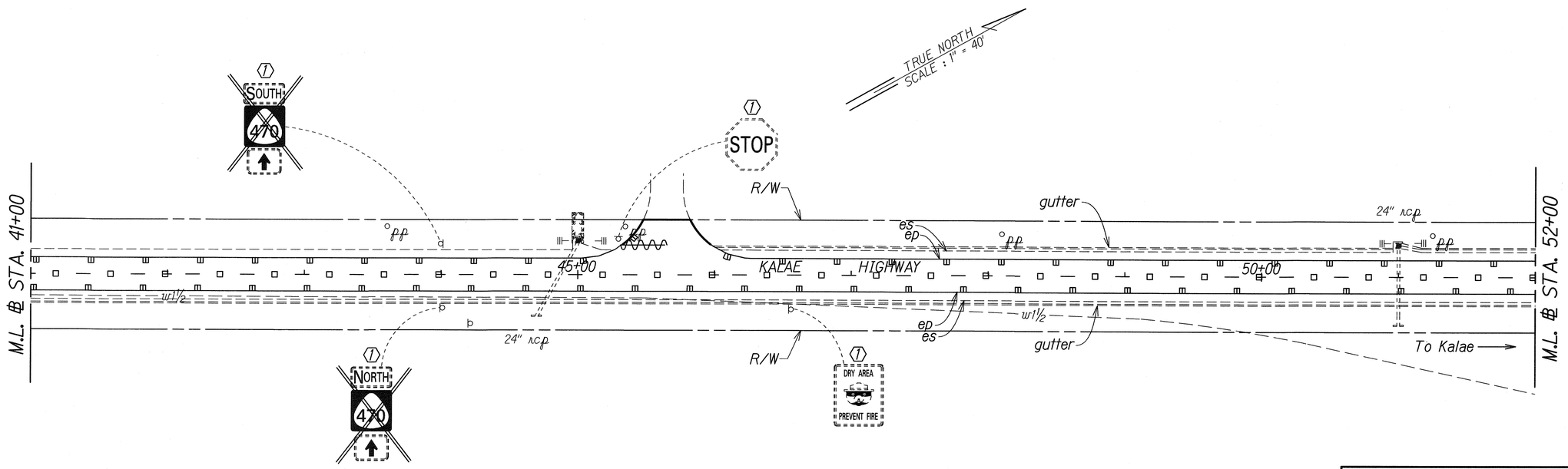
Scale: 1" =40' Date: February, 2009

SHEET No. 2 OF 15 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	26	38





LEGEND FOR AS-BUILT POSTINGS	
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~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

KEY:

1. Exist. Sign(s) & Post(s) to Remain
2. Remove Exist. Sign(s) & Post(s)
3. Remove Exist. & Install New Sign(s) & Post(s)
4. Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

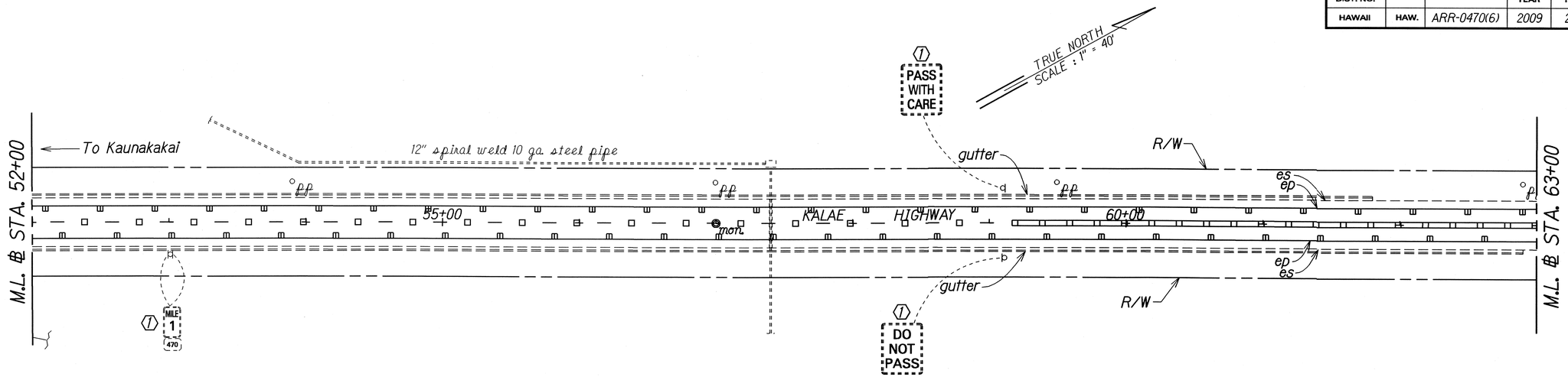
Scale: 1" =40' Date: February, 2009

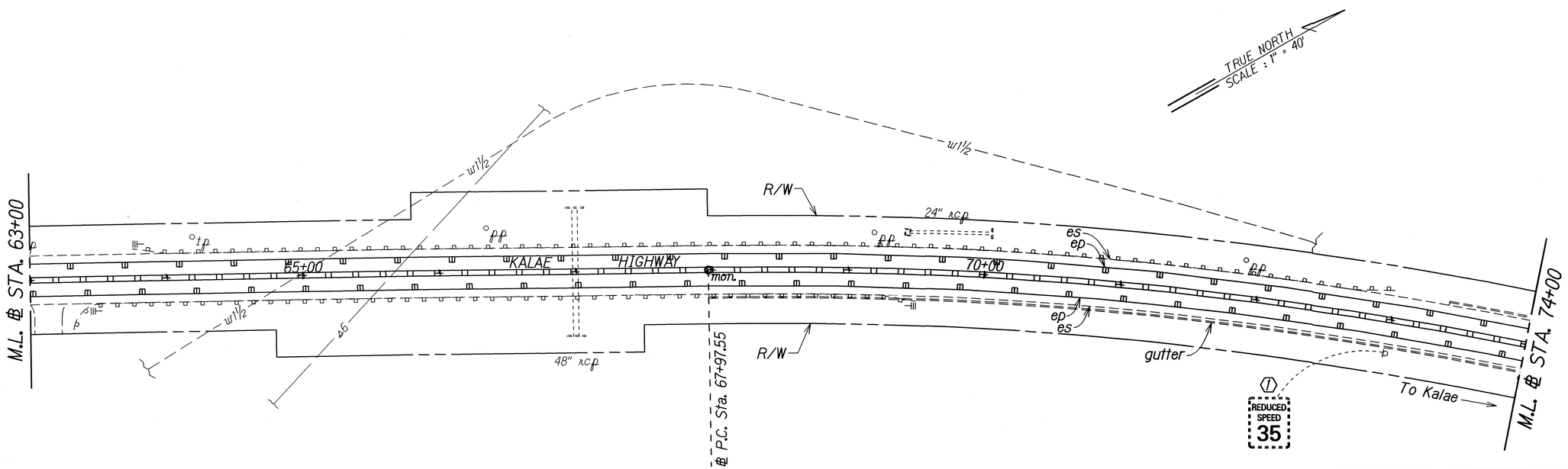
SHEET No. 3 OF 15 SHEETS

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

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	27	38





KEY:

1. Exist. Sign(s) & Post(s) to Remain
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3. Remove Exist. & Install New Sign(s) & Post(s)
4. Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" =40' Date: February, 2009

SHEET No. 4 OF 15 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	28	38

LEGEND FOR AS-BUILT POSTINGS

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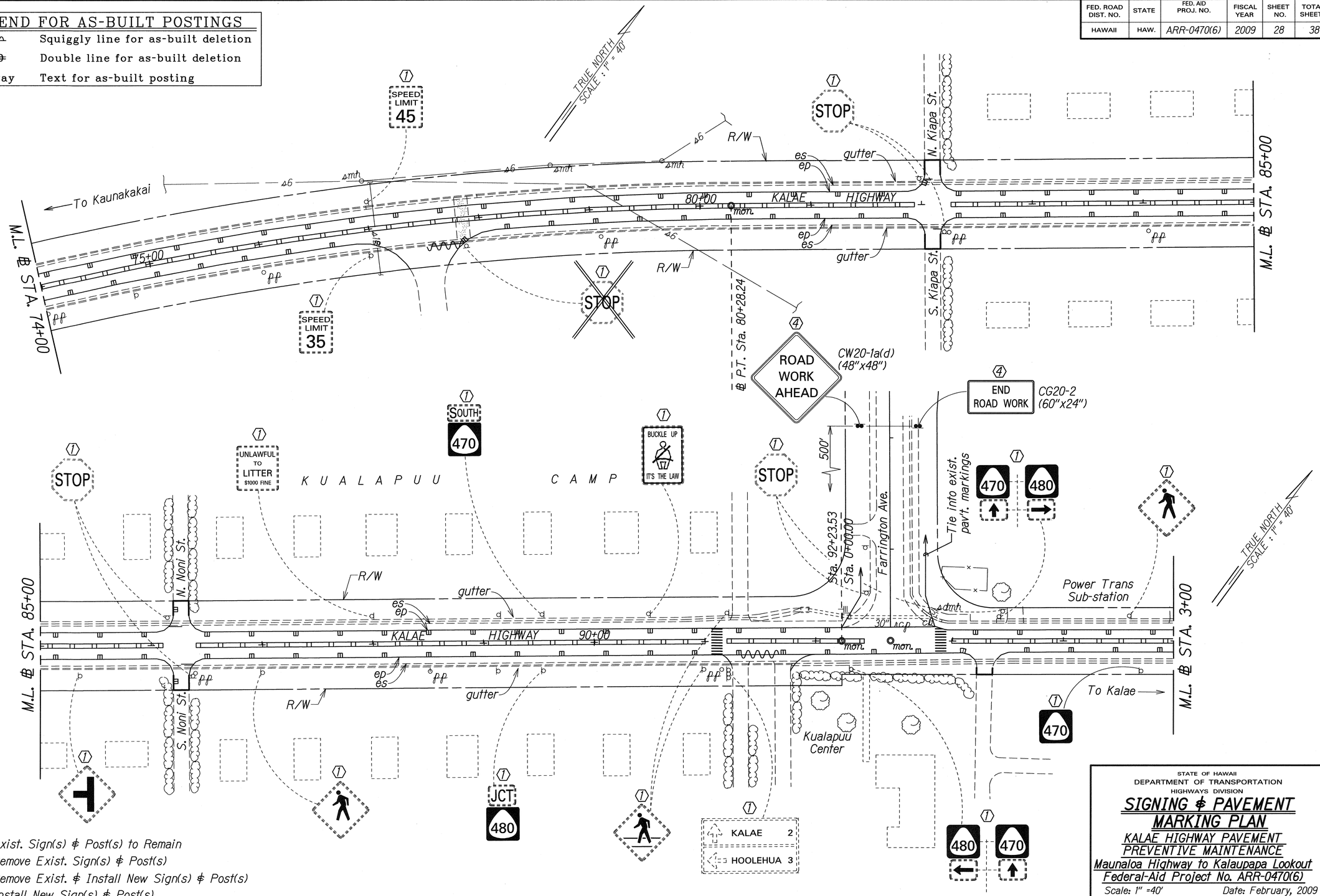
Roadway	Text for as-built posting



KEY:

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4. Install New Sign(s) & Post(s)

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

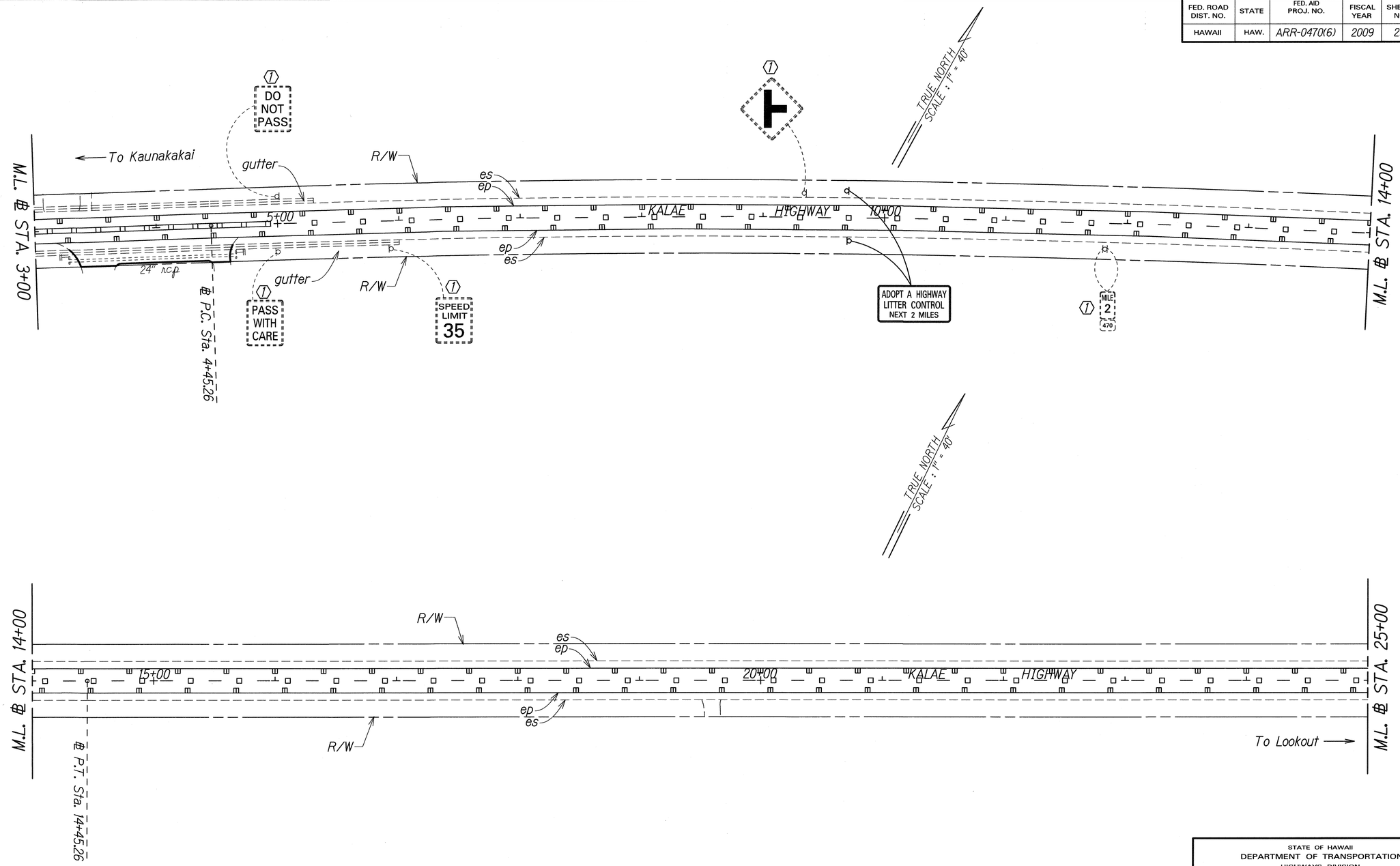
KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" =40' Date: February, 2009

SHEET No. 5 OF 15 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	29	38



LEGEND FOR AS-BUILT POSTINGS	
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~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

KEY:

1. Exist. Sign(s) & Post(s) to Remain
2. Remove Exist. Sign(s) & Post(s)
3. Remove Exist. & Install New Sign(s) & Post(s)
4. Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

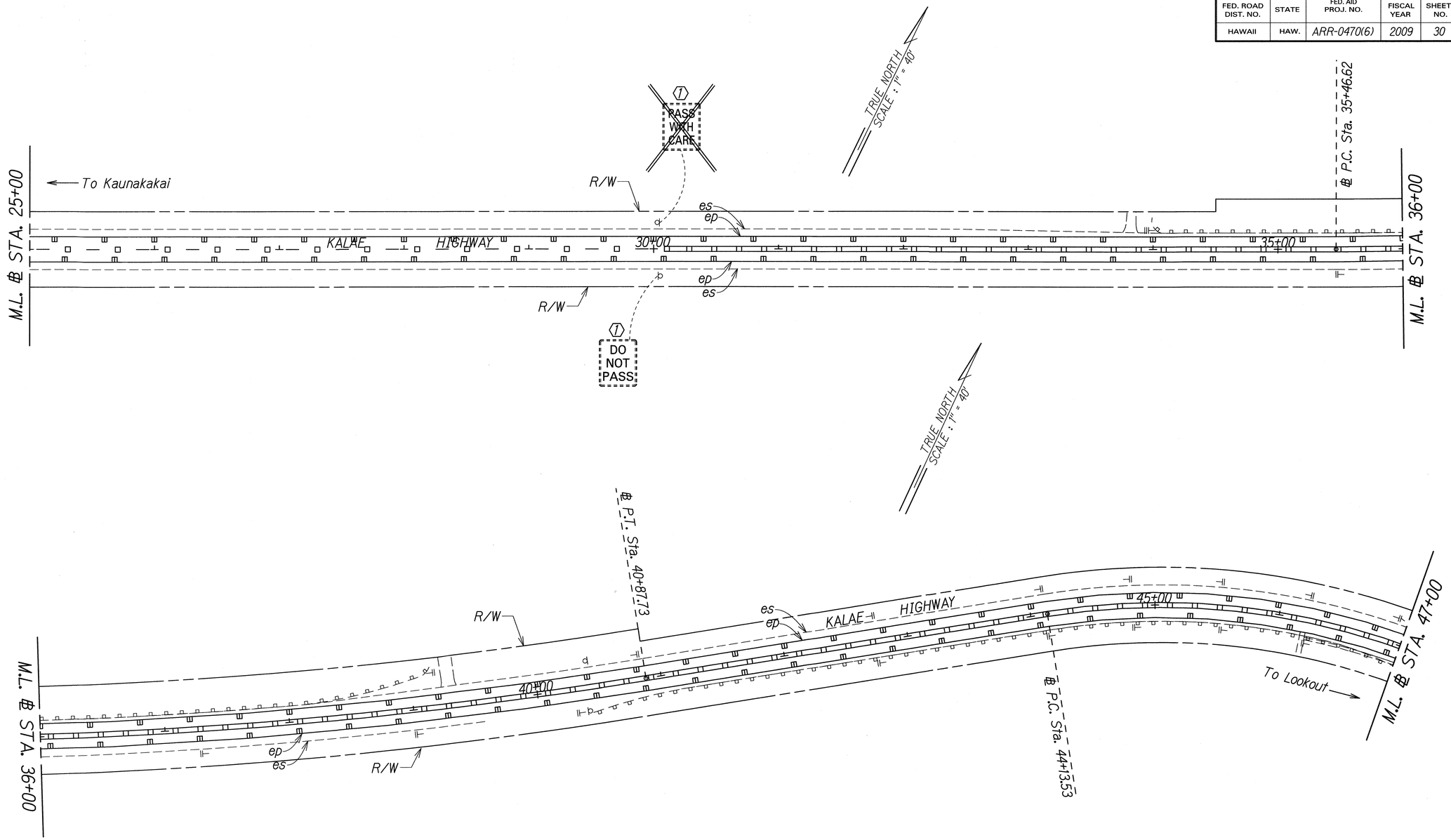
Scale: 1" =40' Date: February, 2009

SHEET No. 6 OF 15 SHEETS

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

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	30	38



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~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

KEY:

1. Exist. Sign(s) & Post(s) to Remain
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

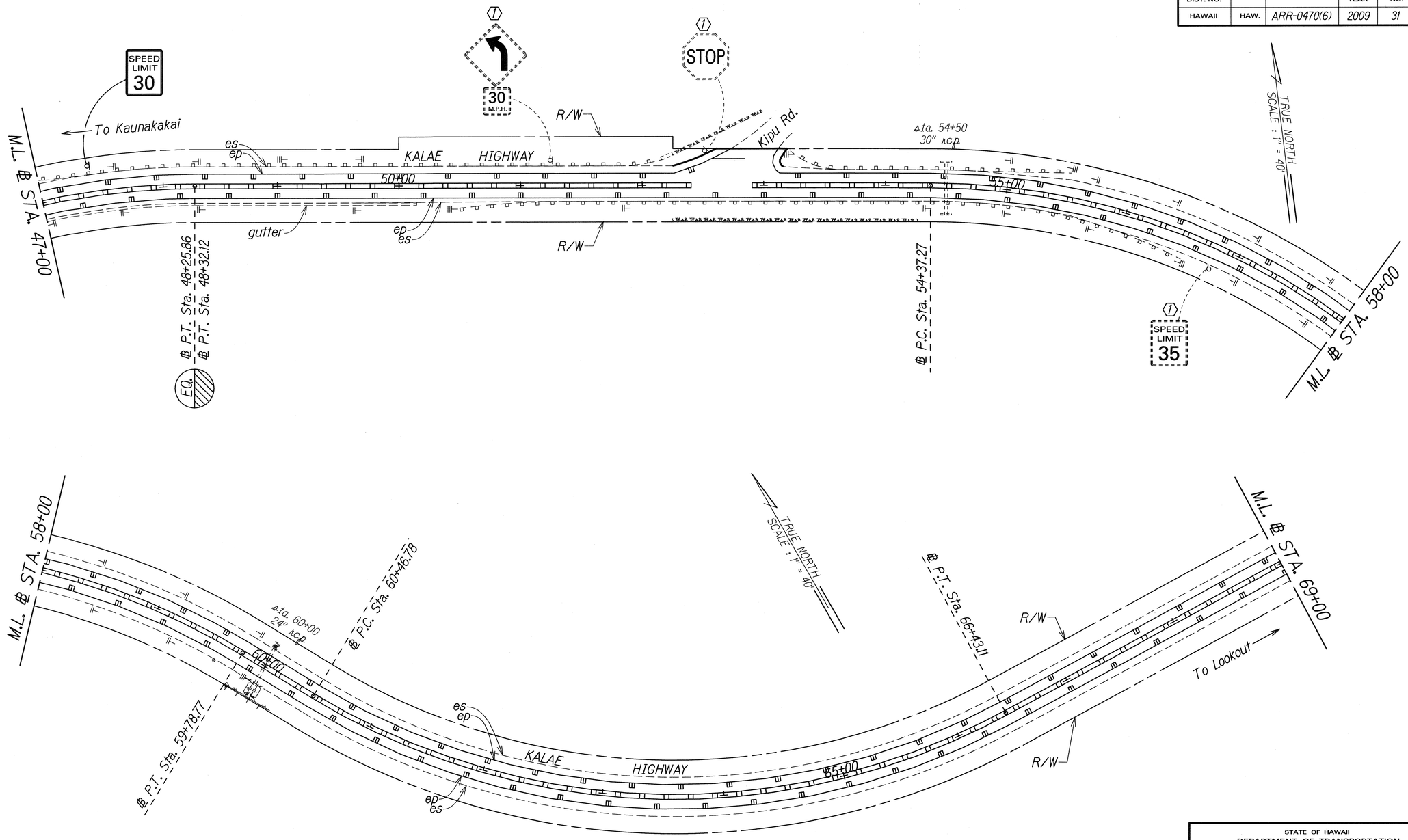
Scale: 1" =40' Date: February, 2009

SHEET No. 7 OF 15 SHEETS

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

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	31	38



LEGEND FOR AS-BUILT POSTINGS	
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~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

KEY:

1. Exist. Sign(s) & Post(s) to Remain
2. Remove Exist. Sign(s) & Post(s)
3. Remove Exist. & Install New Sign(s) & Post(s)
4. Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

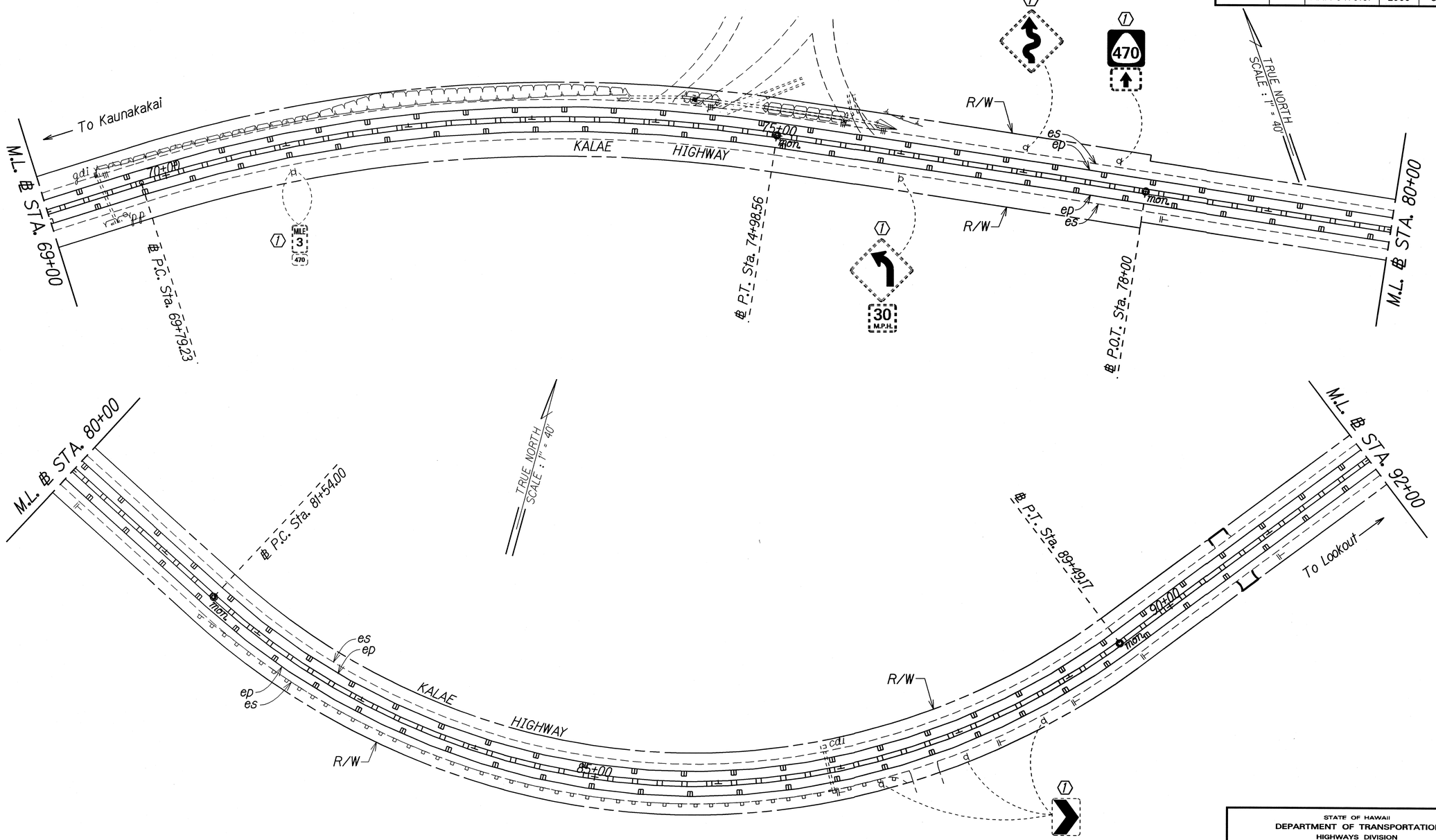
Scale: 1" =40' Date: February, 2009

SHEET No. 8 OF 15 SHEETS

"AS-BUILT"

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	32	38



KEY:

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2. Remove Exist. Sign(s) & Post(s)
3. Remove Exist. & Install New Sign(s) & Post(s)
4. Install New Sign(s) & Post(s)

ORIGINAL PLAN	SURVEY PLOTTED BY ____ DATE ____
	DRAWN BY X
NOTE BOOK	TRACED BY X
ddx	DESIGNED BY X
No. Xdgn	QUANTITIES BY
	CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

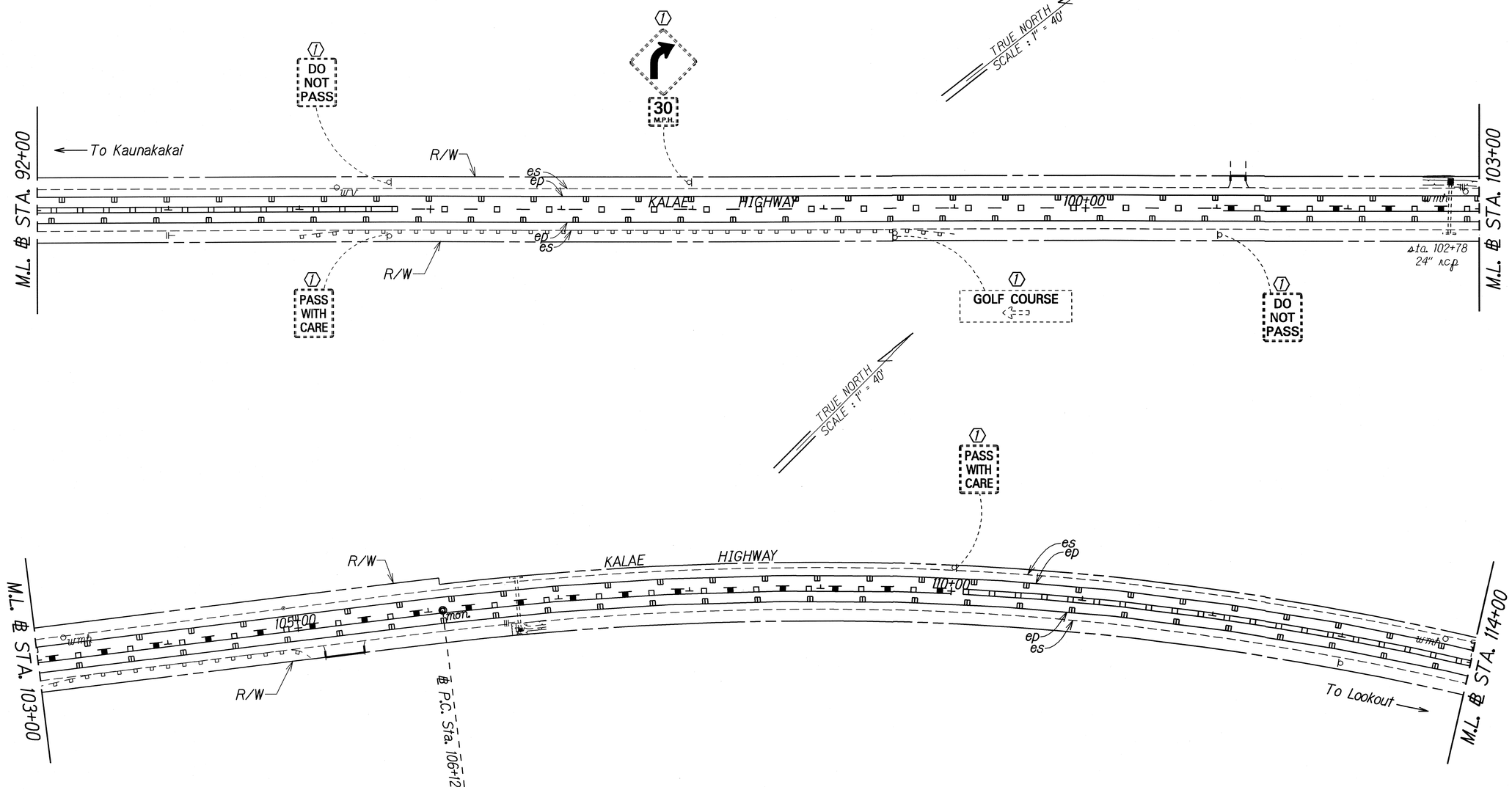
KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE

Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" =40' Date: February, 2009

SHEET No. 9 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	33	38



KEY:

1. Exist. Sign(s) & Post(s) to Remain
2. Remove Exist. Sign(s) & Post(s)
3. Remove Exist. & Install New Sign(s) & Post(s)
4. Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

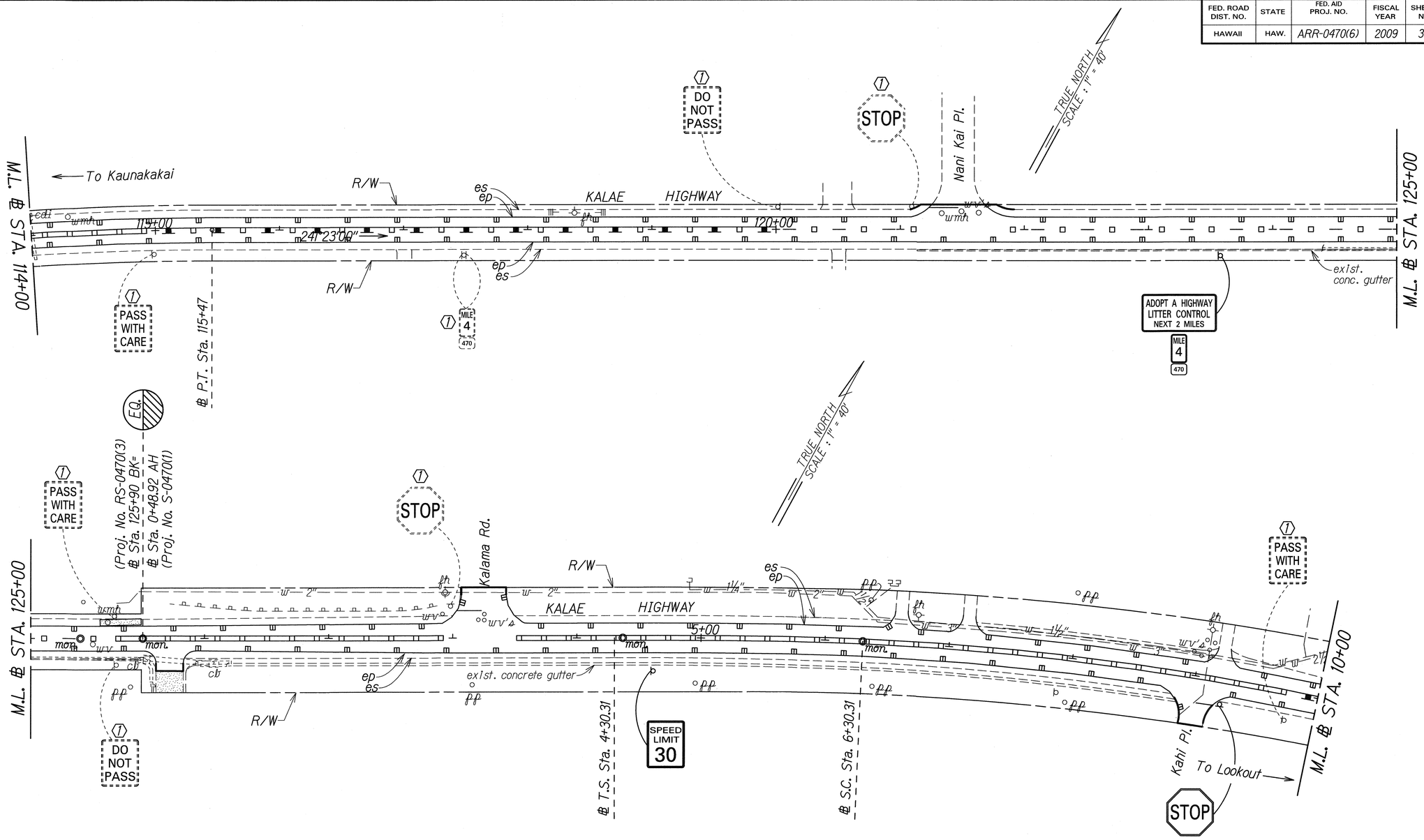
KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" =40' Date: February, 2009

SHEET No. 10 OF 15 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.	ARR-0470(6)	2009	34	38



LEGEND FOR AS-BUILT POSTINGS	
~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

KEY:

1. Exist. Sign(s) & Post(s) to Remain
2. Remove Exist. Sign(s) & Post(s)
3. Remove Exist. & Install New Sign(s) & Post(s)
4. Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" =40' Date: February, 2009

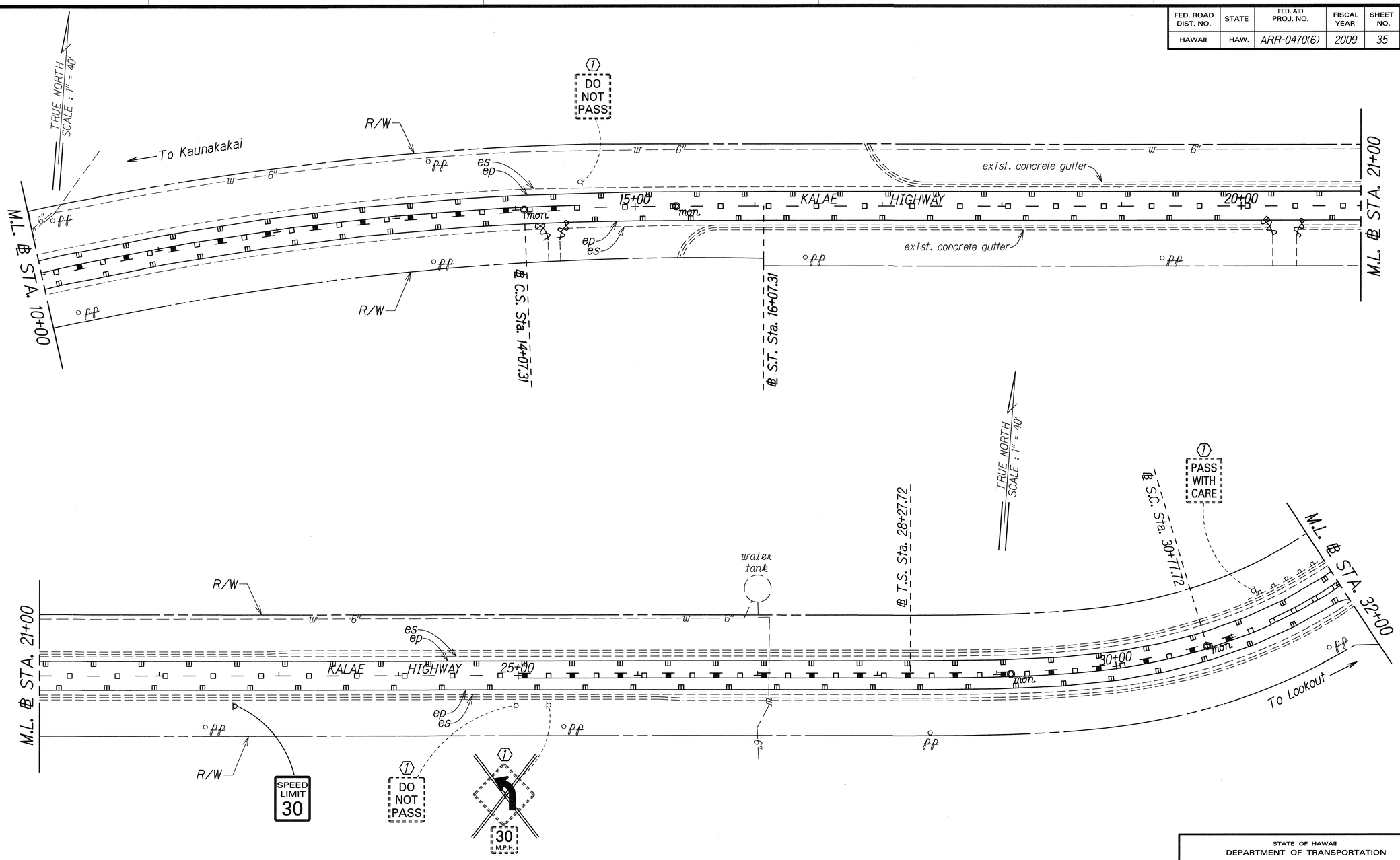
SHEET No. 11 OF 15 SHEETS

ORIGINAL PLAN
NOTE BOOK
No. Kalgn

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

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	35	38



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~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

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4. Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

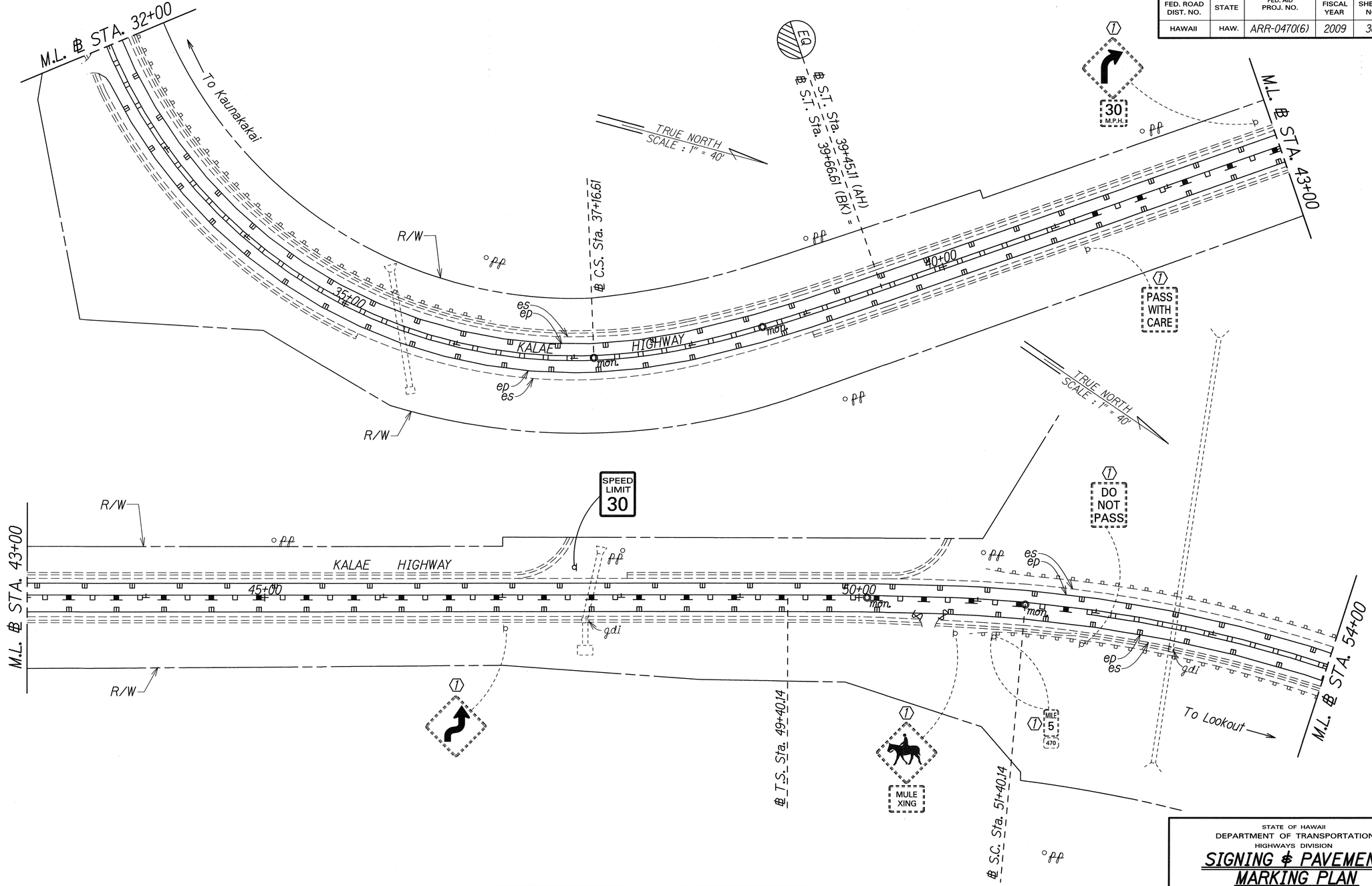
Scale: 1" =40' Date: February, 2009

SHEET No. 12 OF 15 SHEETS

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

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	36	38



KEY:

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2. Remove Exist. Sign(s) & Post(s)
3. Remove Exist. & Install New Sign(s) & Post(s)
4. Install New Sign(s) & Post(s)

LEGEND FOR AS-BUILT POSTINGS	
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~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE

Maunaloa Highway to Kalaupapa Lookout

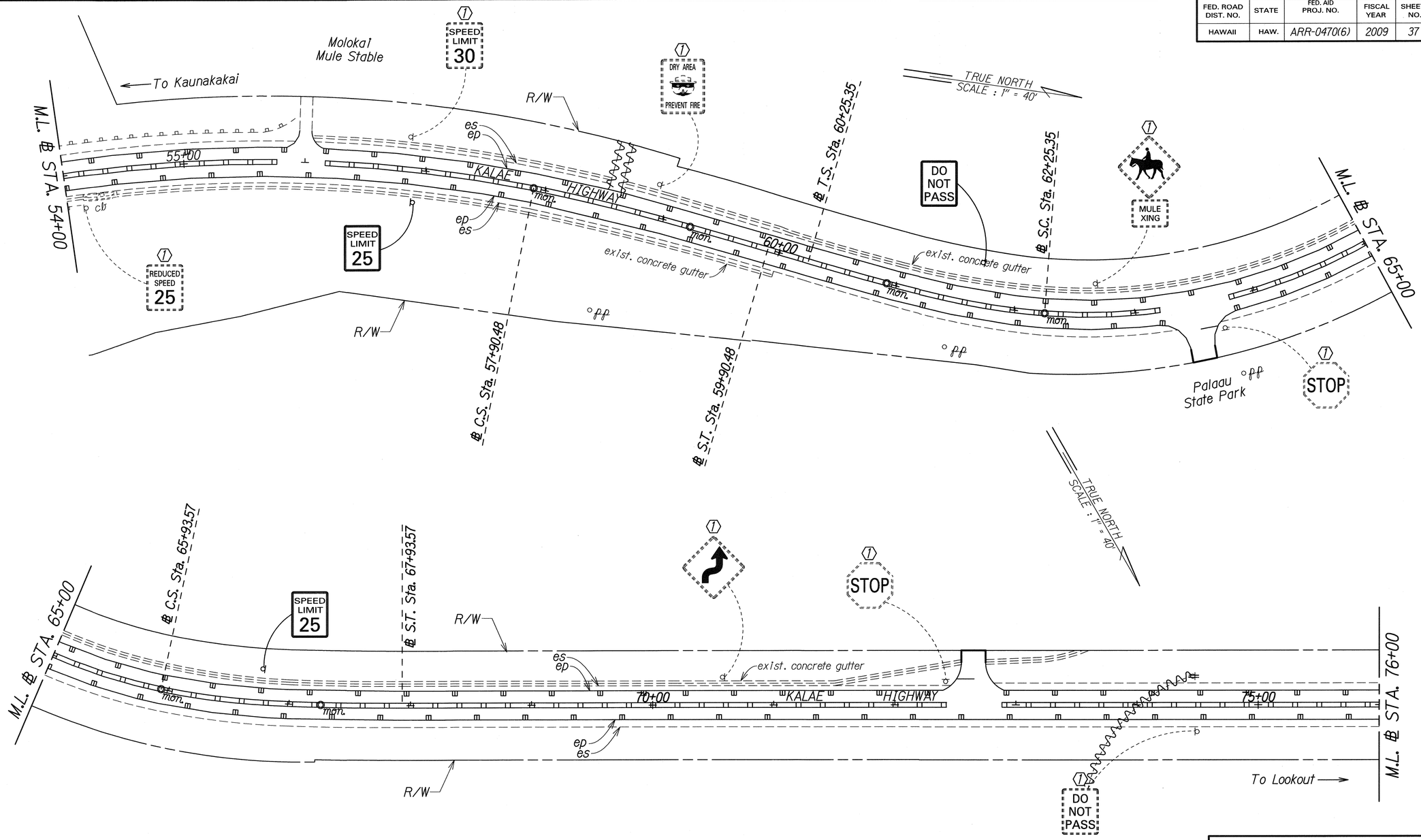
Federal-Aid Project No. ARR-0470(6)

Scale: 1" =40' Date: February, 2009

SHEET No. 13 OF 15 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	37	38



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

LEGEND FOR AS-BUILT POSTINGS

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~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

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4. Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

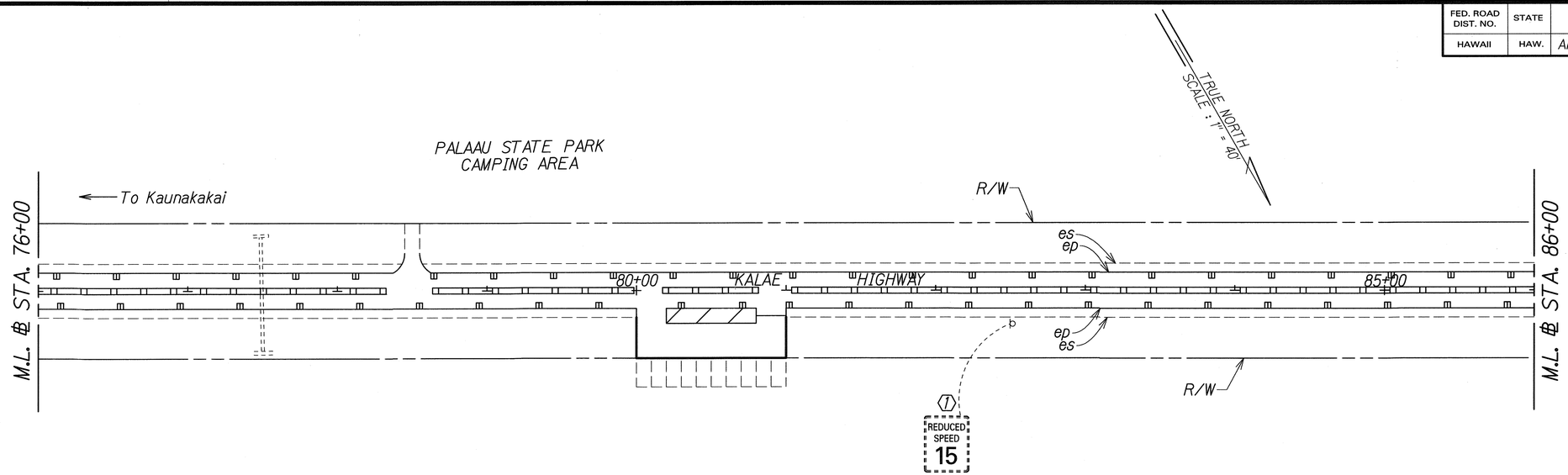
KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

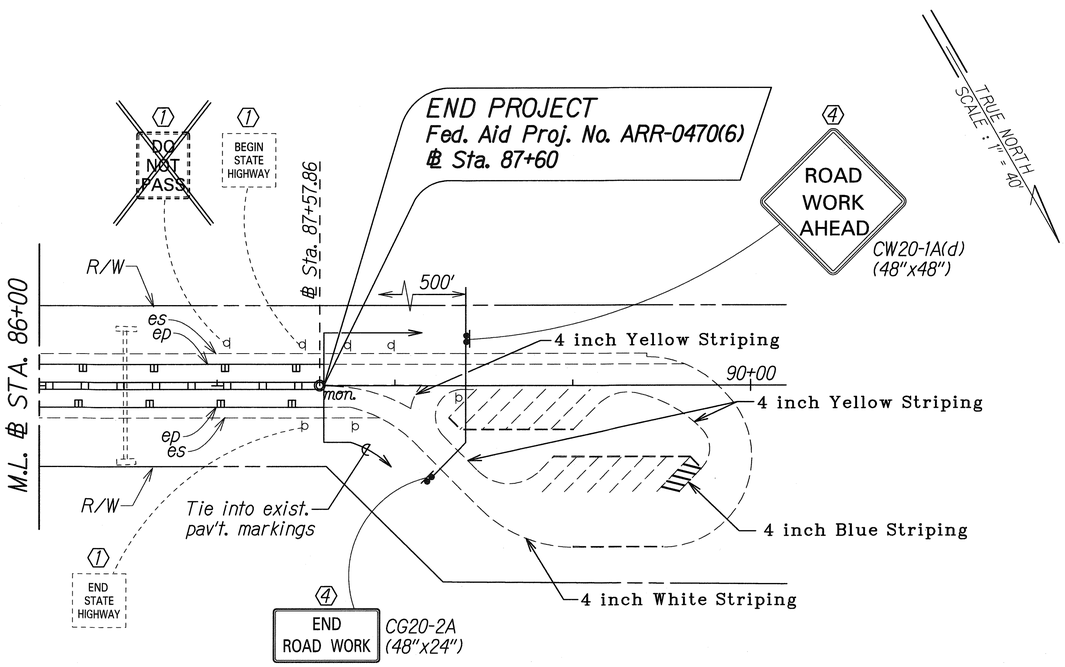
Scale: 1" =40' Date: February, 2009

SHEET No. 14 OF 15 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	38	38





LEGEND FOR AS-BUILT POSTINGS	
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Roadway	Text for as-built posting

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

KALAE HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" =40' Date: February, 2009

SHEET No. 15 OF 15 SHEETS

ORIGINAL PLAN
SURVEY PLOTTED BY ____ DATE ____
DRAWN BY X
TRACED BY
DESIGNED BY X
QUANTITIES BY
CHECKED BY
NOTE BOOK ddxx
No. Xdgn

"AS-BUILT"