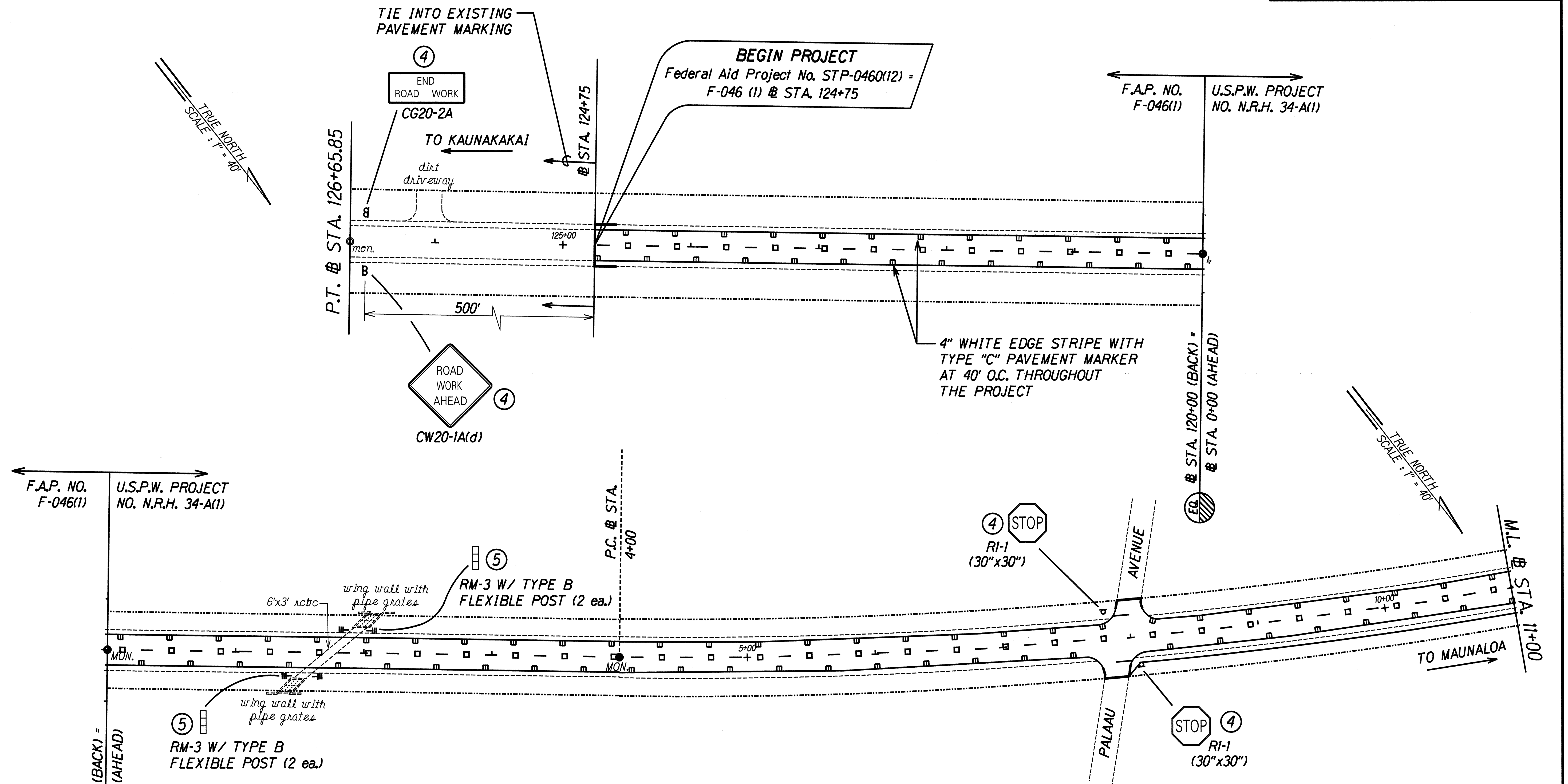


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	23	36



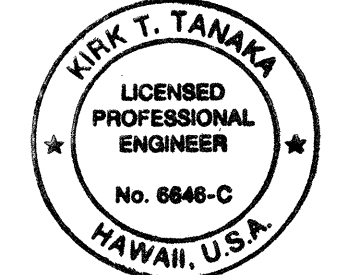
F.A.P. NO. F-046(1) U.S.P.W. PROJECT NO. N.R.H. 34-A(1)

EQ. @ STA. 120+00 (BACK) = @ STA. 0+00 (AHEAD)

- KEY TO SIGNING:**
- ① Existing Sign (s) and Post (s) to remain.
 - ② Remove Existing Sign (s) and Post (s)
 - ③ Remove Existing and Install New Sign (s) and Post (s).
 - ④ Install New Sign (s) and Post (s).
 - ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts
 - ⑥ Install New Reflector Marker with Post.

SURVEY PLOTTED BY	DATE
DRAWN BY J.M.C.	
DESIGNED BY B.A.H.	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
3/AUT/PL/03/01	
NO.	

F-046 (1) / N.R.H. 34-A (1) PORTIONS


 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
K. T. Tanaka
R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

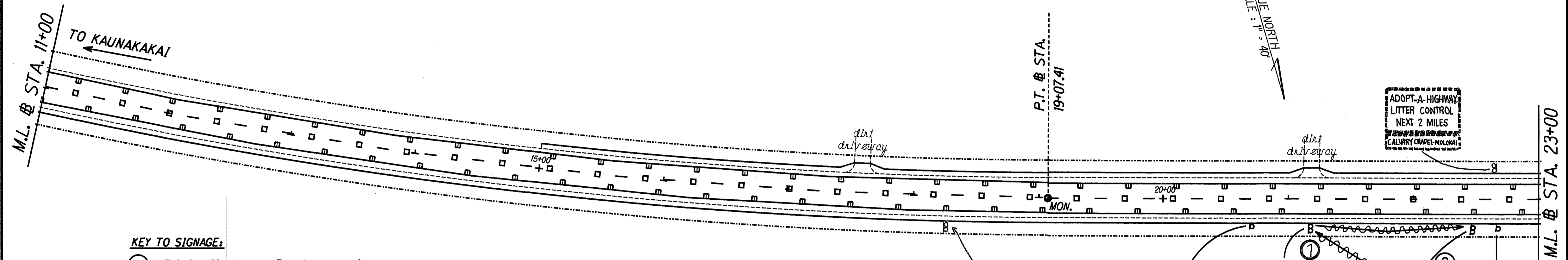
SIGNING AND PAVEMENT MARKING PLAN

MAUNALOA HIGHWAY RESURFACING
HOOLEHUA TO MAHANA
FEDERAL AID PROJECT NO. STP-0460 (12)

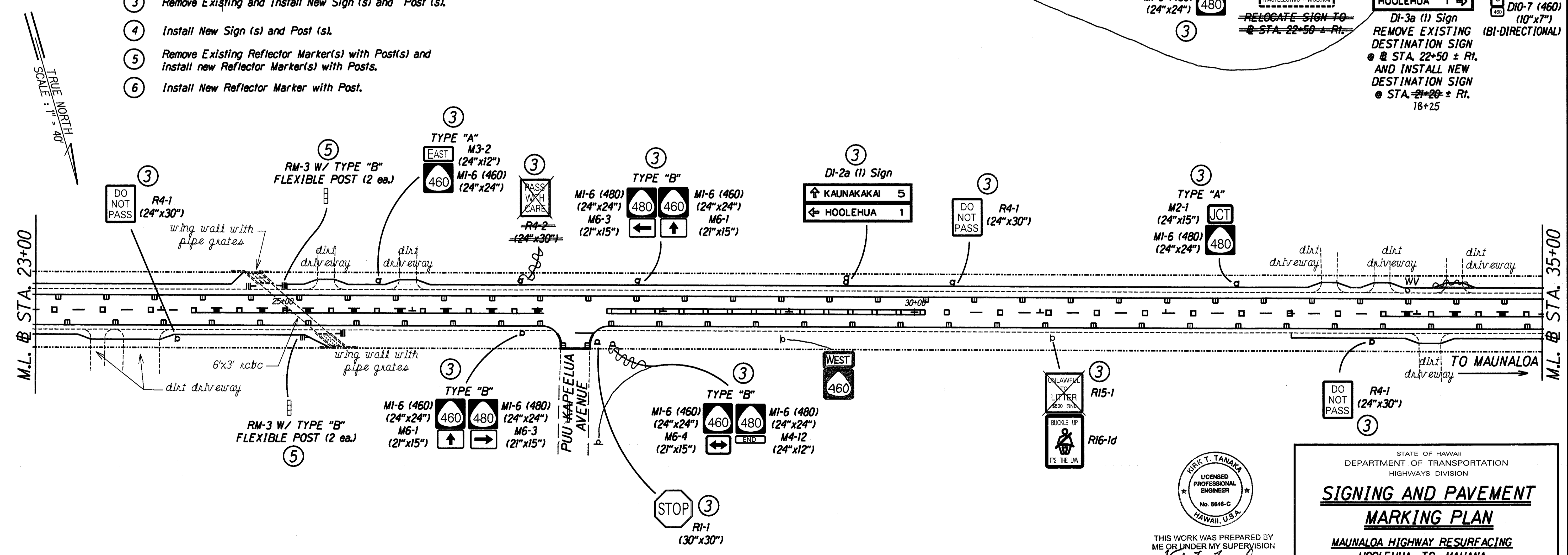
Scale: 1" = 40' Date: JANUARY, 1997

SHEET No. 1 OF 13 SHEETS

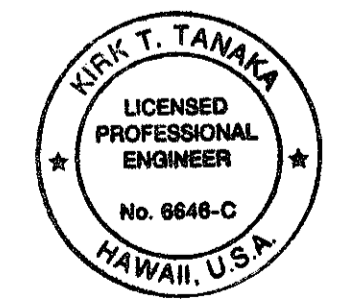
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	24	36



- KEY TO SIGNAGE:**
- ① Existing Sign (s) and Post (s) to remain.
 - ② Remove Existing Sign (s) and Post (s).
 - ③ Remove Existing and Install New Sign (s) and Post (s).
 - ④ Install New Sign (s) and Post (s).
 - ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts.
 - ⑥ Install New Reflector Marker with Post.



DATE: _____
 SURVEY PLOTTED BY: _____
 PLAN CHECKED BY: _____
 NOTE BOOK DESIGNED BY: _____
 3/14/97 P2/DGM
 QUANTITIES BY: _____
 CHECKED BY: _____



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
R. T. Tanaka
R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

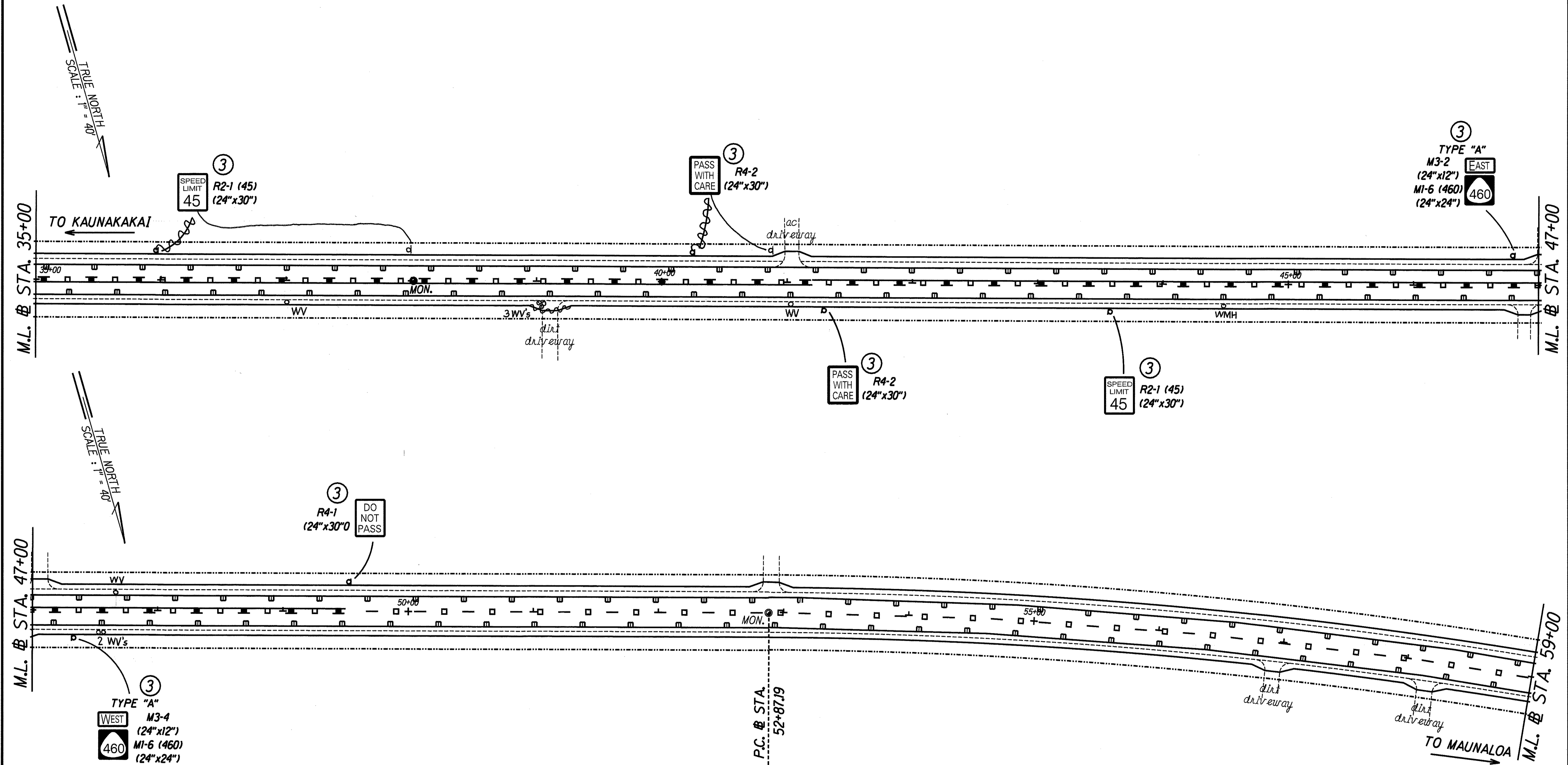
MAUNALOA HIGHWAY RESURFACING
 HOOLEHUA TO MAHANA
 FEDERAL AID PROJECT NO. STP-0460 (12)
 Scale: 1" = 40' Date: JANUARY, 1997

SHEET No. 2 OF 13 SHEETS

NRH 34-A (1) PORTION

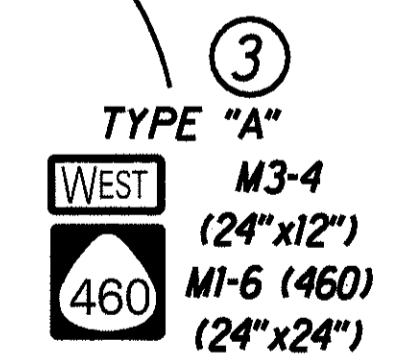
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	25	36



KEY TO SIGNAGE:

- | | |
|--|--|
| ① Existing Sign (s) and Post (s) to remain. | ④ Install New Sign (s) and Post (s). |
| ② Remove Existing Sign (s) and Post (s). | ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts. |
| ③ Remove Existing and Install New Sign (s) and Post (s). | ⑥ Install New Reflector Marker with Post. |



SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
3/MAUT/P3/DEM	
N.	

NRH 34-A (1) PORTION

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
R. T. Tanaka
R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

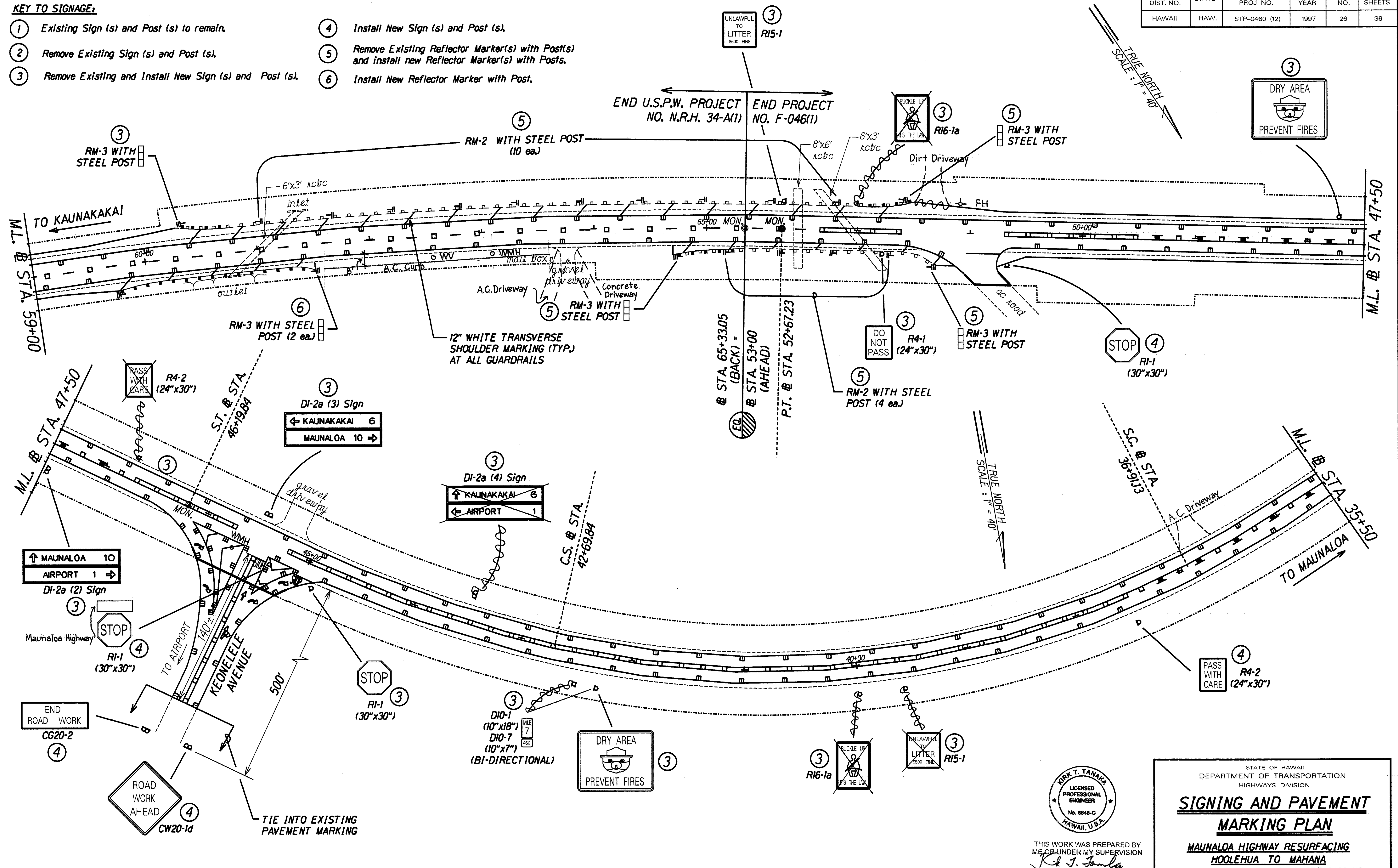
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING AND PAVEMENT MARKING PLAN
MAUNALOA HIGHWAY RESURFACING HOOLEHUA TO MAHANA
 FEDERAL AID PROJECT NO. STP-0460 (12)
 Scale: 1" = 40' Date: JANUARY, 1997
 SHEET No. 3 OF 13 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	26	36

KEY TO SIGNAGE:

- ① Existing Sign (s) and Post (s) to remain.
- ② Remove Existing Sign (s) and Post (s).
- ③ Remove Existing and Install New Sign (s) and Post (s).
- ④ Install New Sign (s) and Post (s).
- ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts.
- ⑥ Install New Reflector Marker with Post.



SURVEY PLOTTED BY	DATE
DRAWN BY	
NOTE BOOK DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
3/14/97	

NRH 34-A (1) / F-046 (1) PORTIONS

KIRK T. TANAKA
 LICENSED PROFESSIONAL ENGINEER
 No. 6648-C
 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
R. T. Tanaka

R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

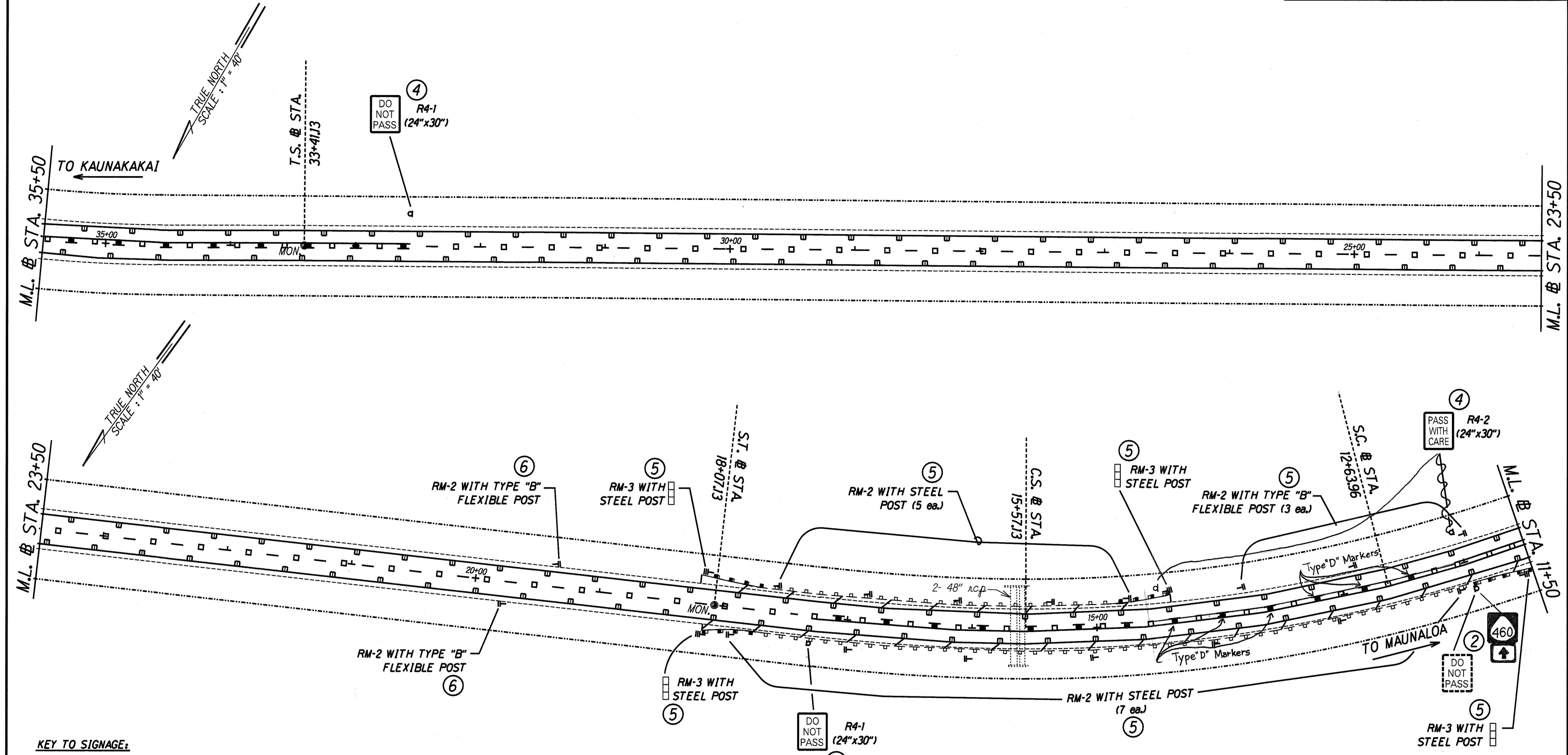
SIGNING AND PAVEMENT MARKING PLAN

MAUNALOA HIGHWAY RESURFACING
 HOOLEHUA TO MAHANA
 FEDERAL AID PROJECT NO. STP-0460 (12)
 Scale: 1" = 40' Date: JANUARY, 1997

SHEET No. 4 OF 13 SHEETS

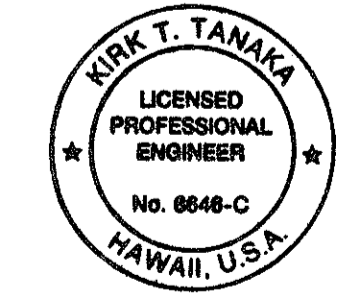
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	27	36



- KEY TO SIGNAGE:**
- ① Existing Sign (s) and Post (s) to remain.
 - ② Remove Existing Sign (s) and Post (s).
 - ③ Remove Existing and Install New Sign (s) and Post (s).
 - ④ Install New Sign (s) and Post (s).
 - ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts.
 - ⑥ Install New Reflector Marker with Post.

DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



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R. T. Tanaka
R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

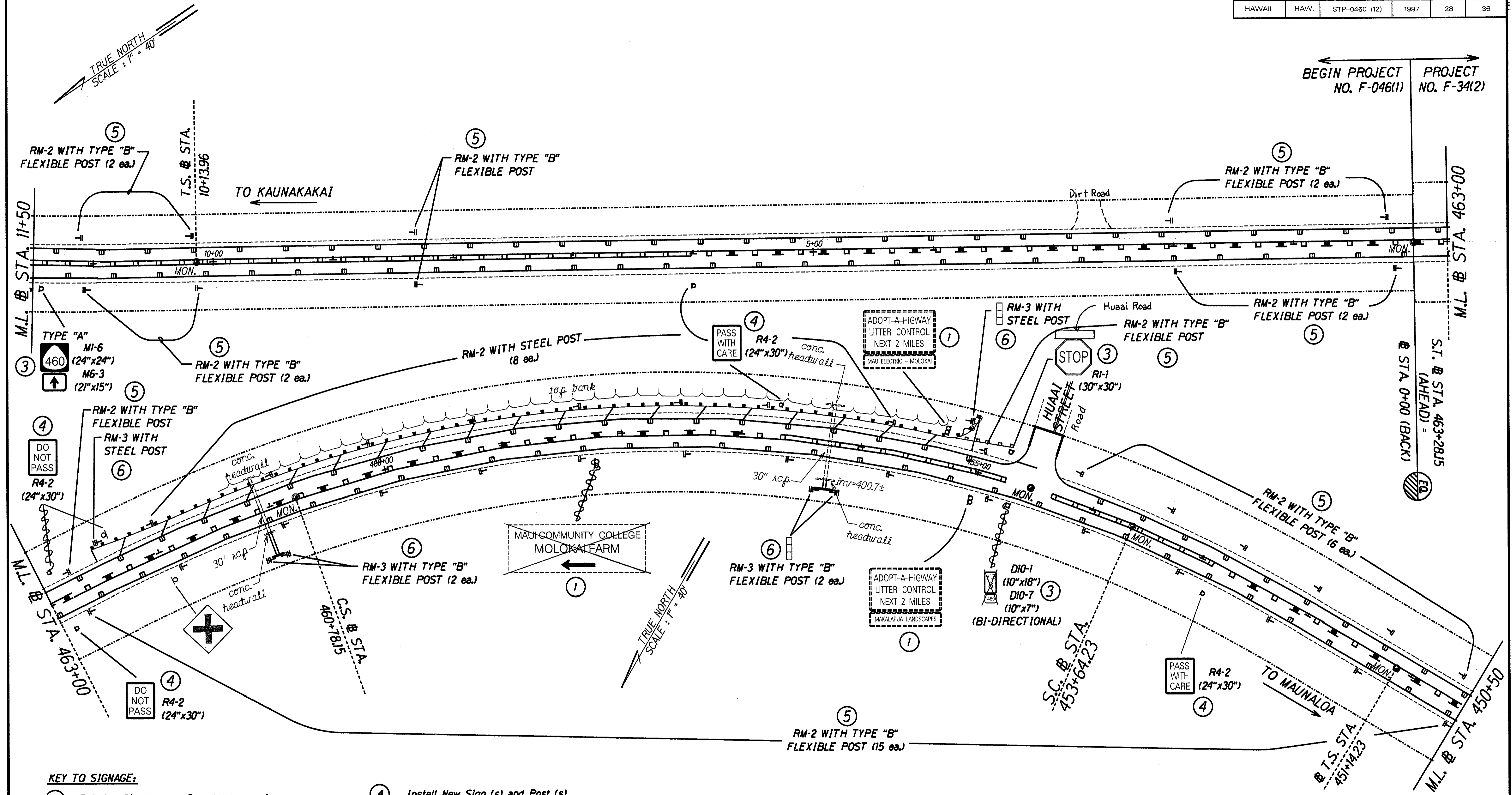
**MAUNALOA HIGHWAY RESURFACING
 HOOLEHUA TO MAHANA**
 FEDERAL AID PROJECT NO. STP-0460 (12)
 Scale: 1" = 40' Date: JANUARY, 1997

F-046 (1) PORTION

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	28	36

BEGIN PROJECT NO. F-046(1) PROJECT NO. F-34(2)

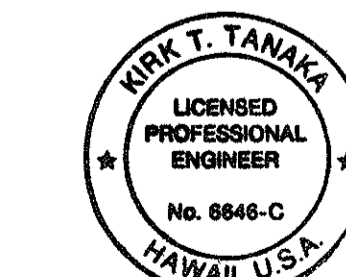


KEY TO SIGNAGE:

- | | |
|--|---|
| ① Existing Sign (s) and Post (s) to remain. | ④ Install New Sign (s) and Post (s). |
| ② Remove Existing Sign (s) and Post (s) | ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts |
| ③ Remove Existing and Install New Sign (s) and Post (s). | ⑥ Install New Reflector Marker with Post. |

SURVEY PROVIDED BY: _____ DATE: _____
 DRAWN BY: M.L.P.
 CHECKED BY: J.A.H.
 ORIGINAL PLAN: _____
 NOTES BOOK: _____
 GUARANTEED BY: SHAWUT PUGH
 No. _____

F-046 (1) / F-34 (2) PORTIONS



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Kirk T. Tanaka
 R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

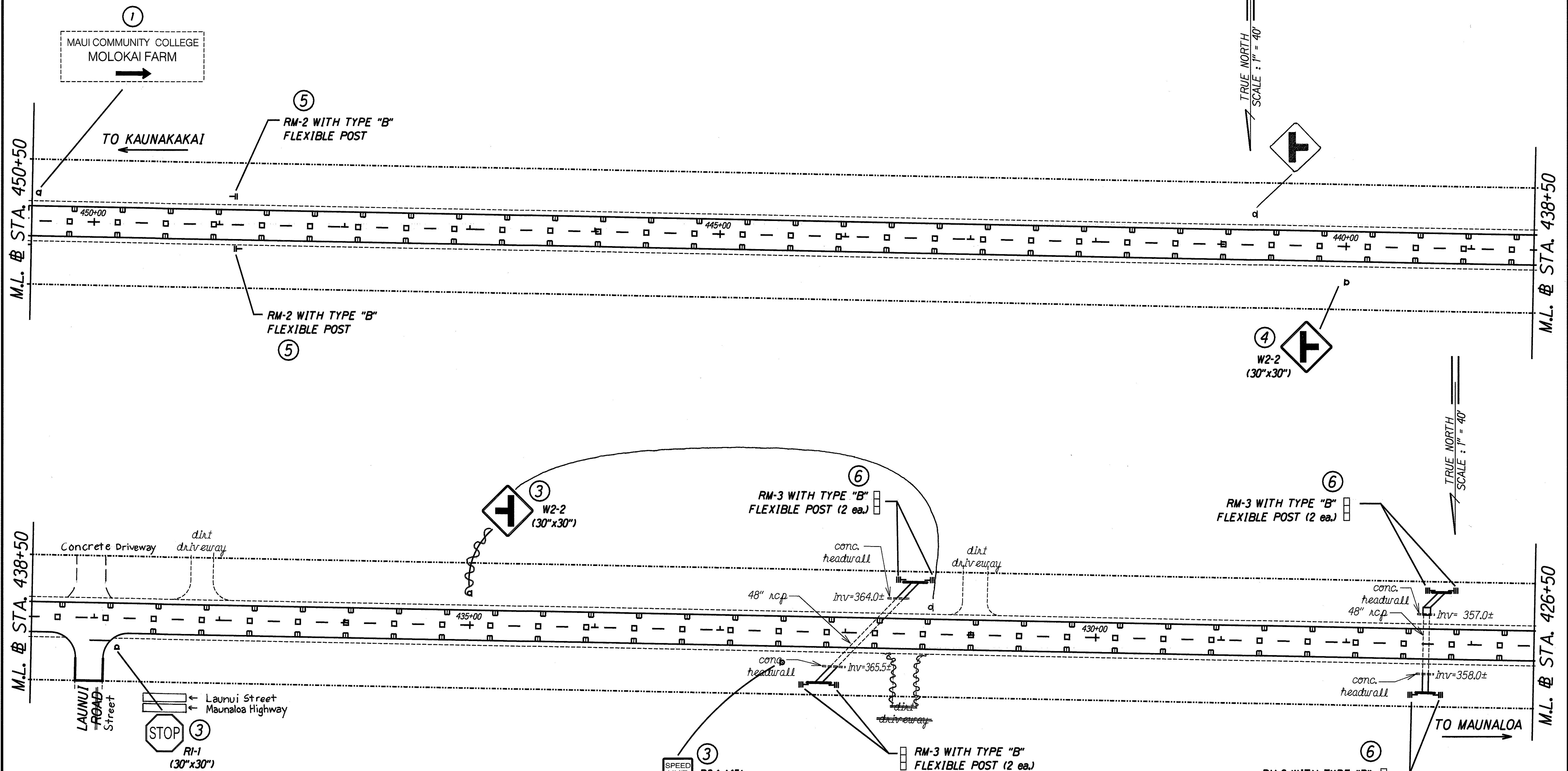
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

MAUNALOA HIGHWAY RESURFACING
 HOOLEHUA TO MAHANA
 FEDERAL AID PROJECT NO. STP-0460 (12)
 Scale: 1" = 40' Date: JANUARY, 1997
 SHEET No. 6 OF 13 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	29	36

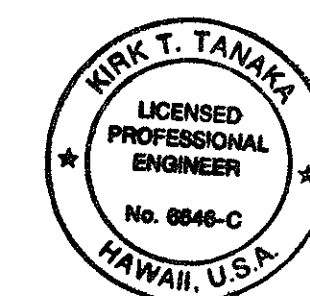


KEY TO SIGNAGE:

- | | |
|--|--|
| ① Existing Sign (s) and Post (s) to remain. | ④ Install New Sign (s) and Post (s). |
| ② Remove Existing Sign (s) and Post (s). | ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts. |
| ③ Remove Existing and Install New Sign (s) and Post (s). | ⑥ Install New Reflector Marker with Post. |

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
DESIGNED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____

F-34 (2) PORTION



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Kirk T. Tanaka
R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

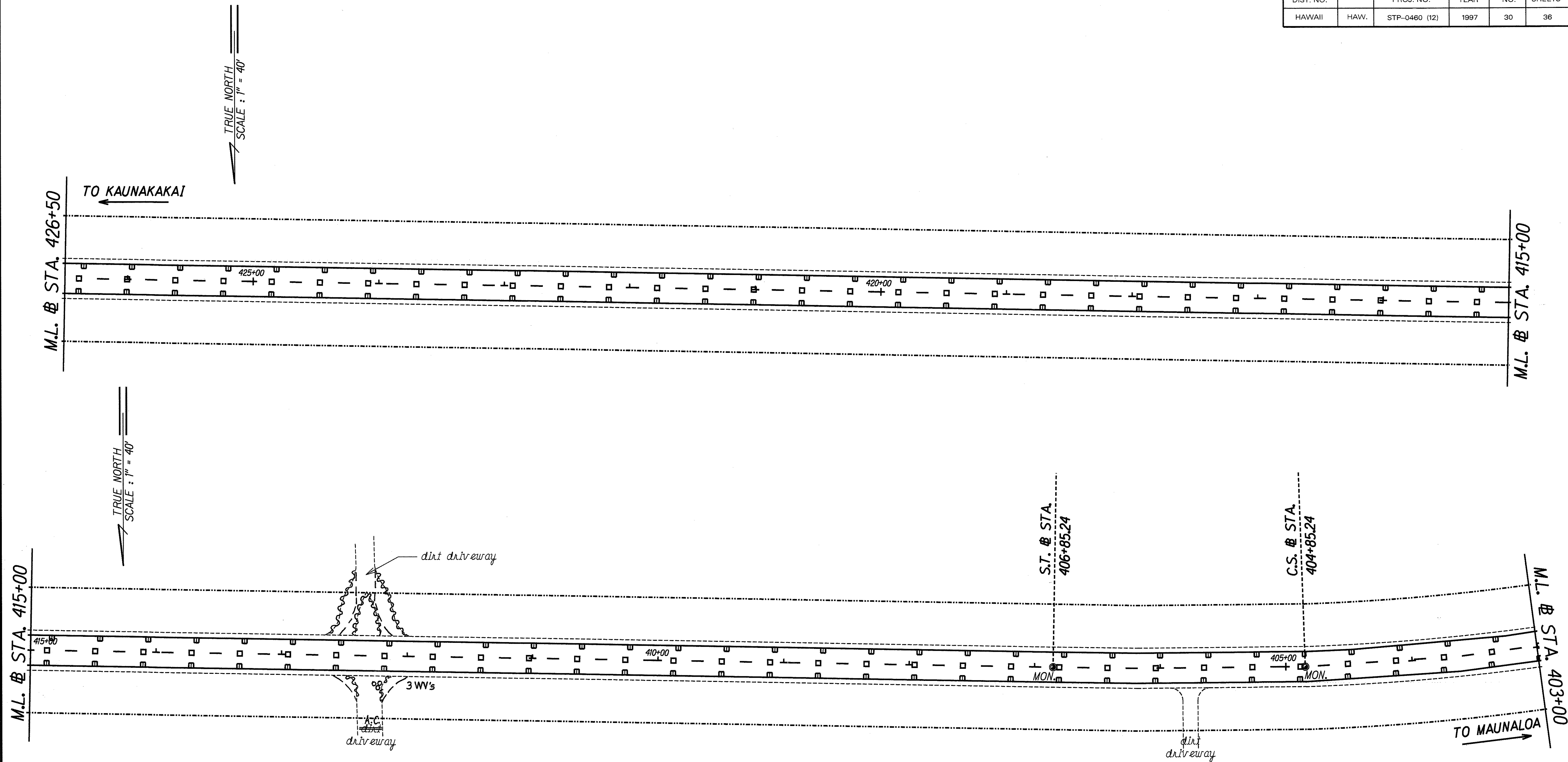
**MAUNALOA HIGHWAY RESURFACING
 HOOLEHUA TO MAHANA**

FEDERAL AID PROJECT NO. STP-0460 (12)
 Scale: 1" = 40' Date: JANUARY, 1997

SHEET No. 7 OF 13 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	30	36

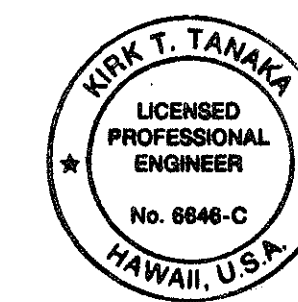


KEY TO SIGNING:

- ① Existing Sign (s) and Post (s) to remain.
- ② Remove Existing Sign (s) and Post (s).
- ③ Remove Existing and Install New Sign (s) and Post (s).
- ④ Install New Sign (s) and Post (s).
- ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts.
- ⑥ Install New Reflector Marker with Post.

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

F-34 (2) PORTION



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R. T. Tanaka
R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

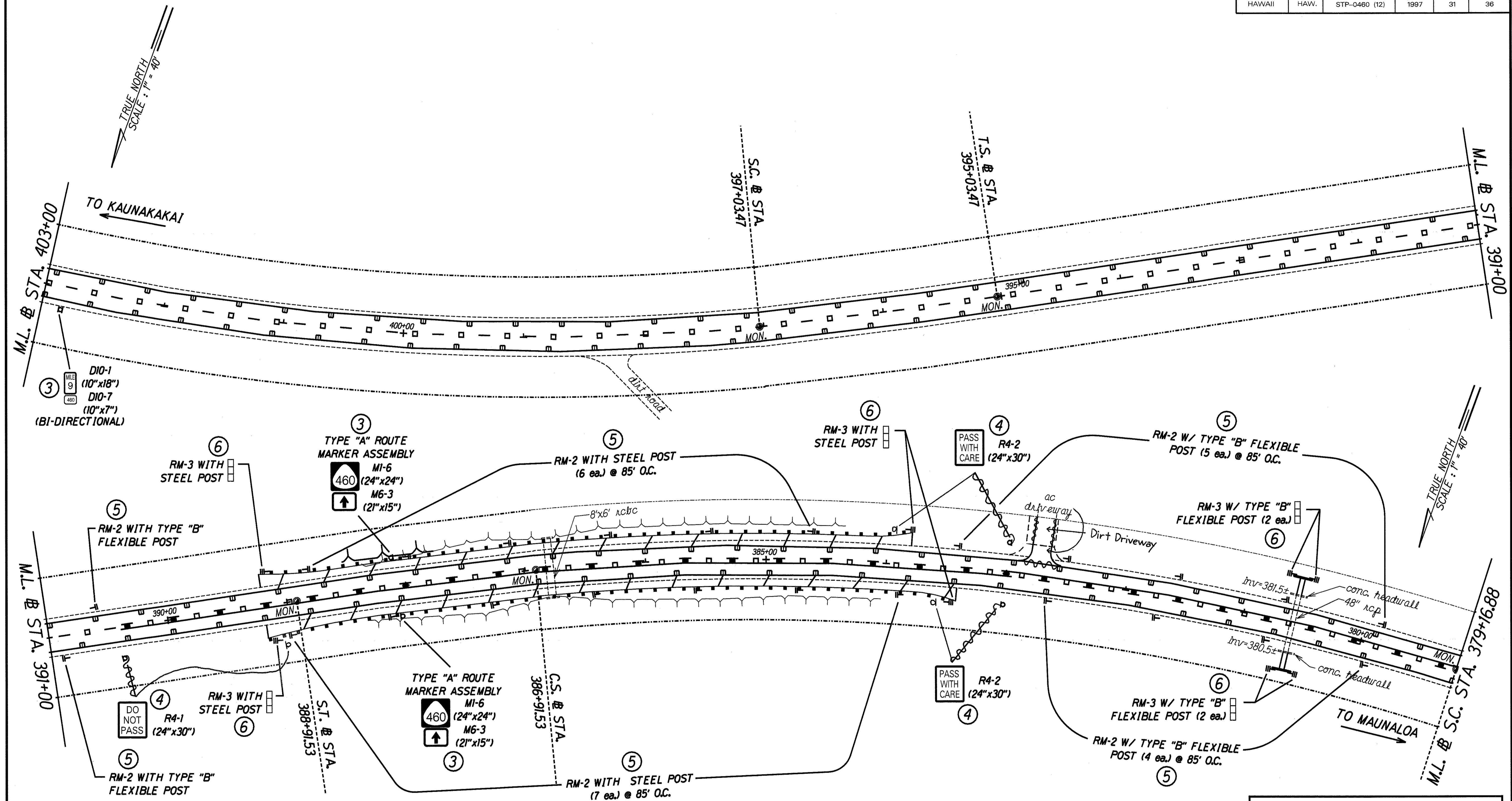
SIGNING AND PAVEMENT MARKING PLAN

MAUNALOA HIGHWAY RESURFACING
 HOOLEHUA TO MAHANA
 FEDERAL AID PROJECT NO. STP-0460 (12)
 Scale: 1" = 40' Date: JANUARY, 1997

SHEET No. 8 OF 13 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	31	36

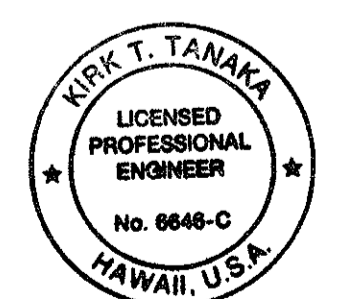


KEY TO SIGNAGE:

- | | |
|--|--|
| ① Existing Sign (s) and Post (s) to remain. | ④ Install New Sign (s) and Post (s). |
| ② Remove Existing Sign (s) and Post (s). | ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts. |
| ③ Remove Existing and Install New Sign (s) and Post (s). | ⑥ Install New Reflector Marker with Post. |

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
SHAFT PUNCH	_____

F-34 (2) POTION



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R. T. Tanaka
R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

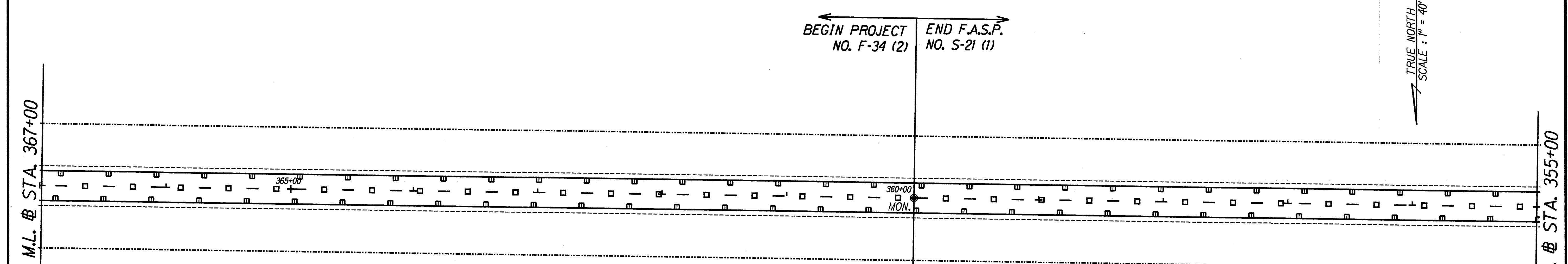
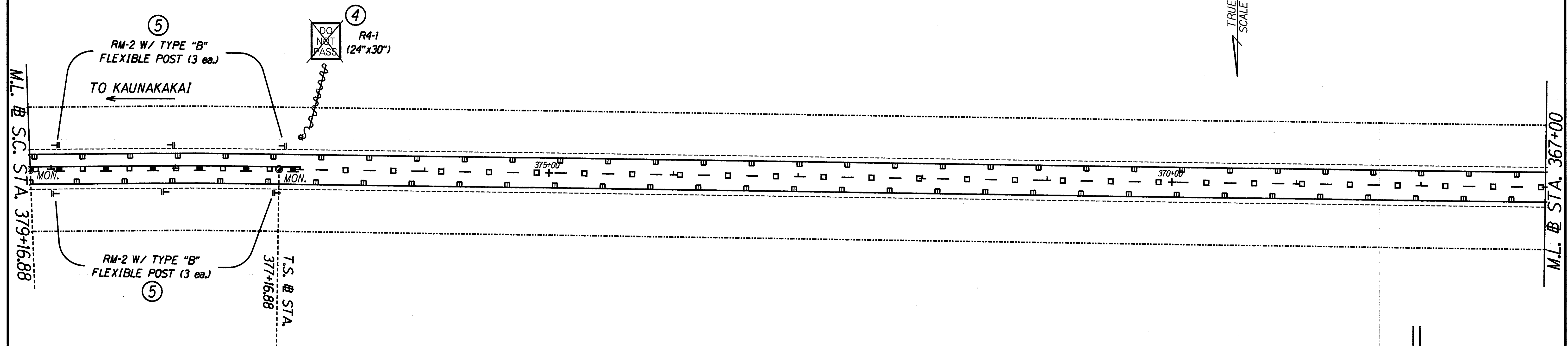
SIGNING AND PAVEMENT MARKING PLAN

MAUNALOA HIGHWAY RESURFACING
 HOOLEHUA TO MAHANA
 FEDERAL AID PROJECT NO. STP-0460 (12)
 Scale: 1" = 40' Date: JANUARY, 1997

SHEET No. 9 OF 13 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	32	36



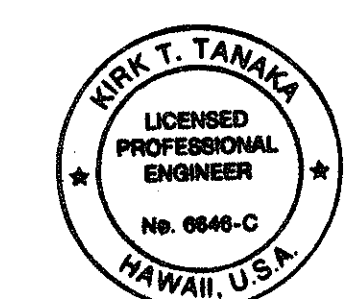
KEY TO SIGNAGE:

- ① Existing Sign (s) and Post (s) to remain.
- ② Remove Existing Sign (s) and Post (s).
- ③ Remove Existing and Install New Sign (s) and Post (s).
- ④ Install New Sign (s) and Post (s).
- ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts.
- ⑥ Install New Reflector Marker with Post.

F-34 (2) / S-21 (1) PORTIONS

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
NOTED BY	
QUANTIFIED BY	
CHECKED BY	
ORIGINAL PLAN	
NO. BOOK	
NO. SHEET	

@ STA. 360+00
(AHEAD)
@ STA. 360+02.20
(BACK)



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

R. T. TANAKA ENGINEERS, INC.
CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

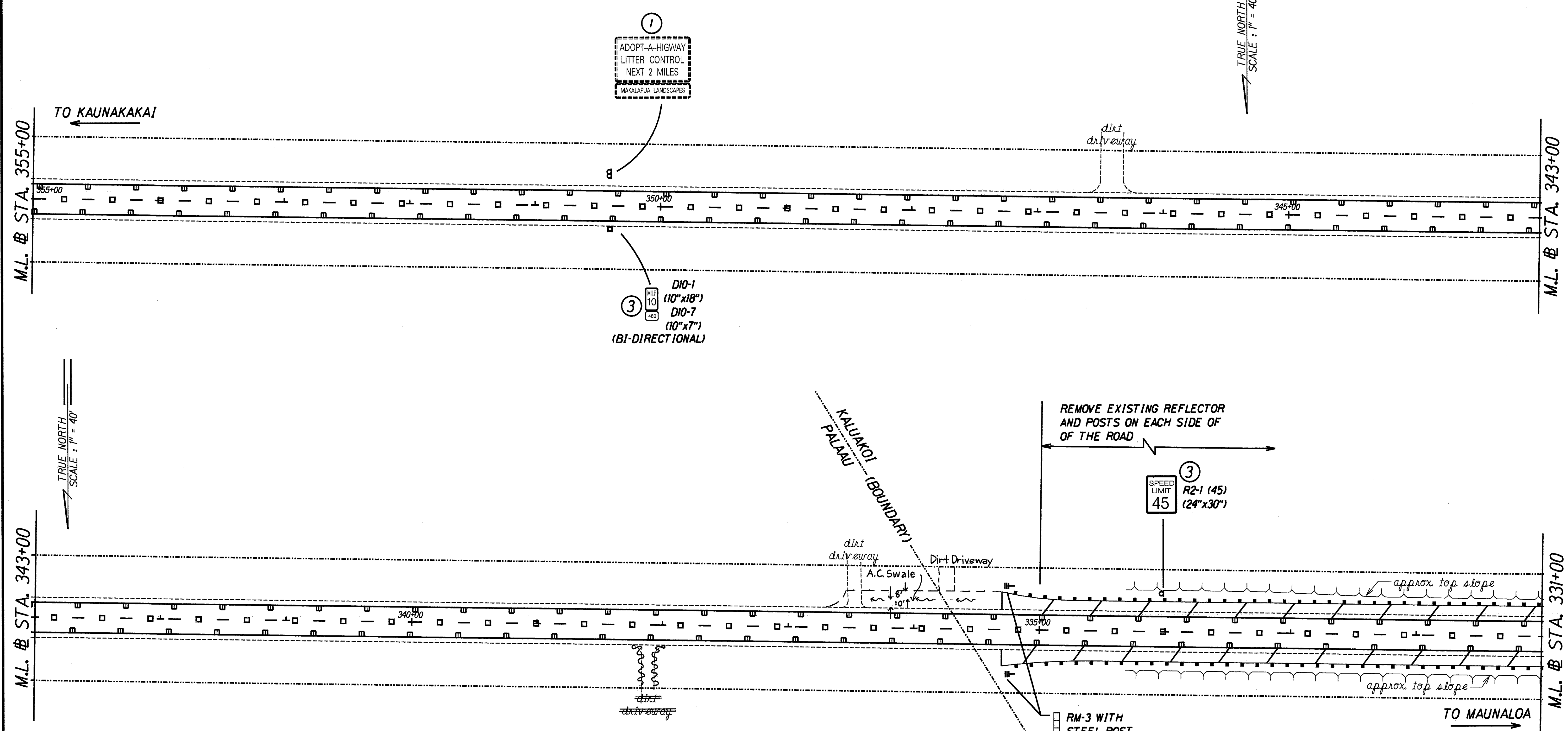
MAUNALOA HIGHWAY RESURFACING
HOOLEHUA TO MAHANA
FEDERAL AID PROJECT NO. STP-0460 (12)

Scale: 1" = 40' Date: JANUARY, 1997

SHEET No. 10 OF 13 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	33	36

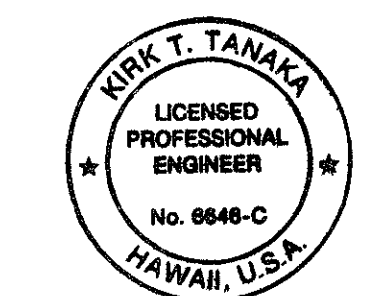


KEY TO SIGNAGE:

- | | |
|--|--|
| ① Existing Sign (s) and Post (s) to remain. | ④ Install New Sign (s) and Post (s). |
| ② Remove Existing Sign (s) and Post (s). | ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts. |
| ③ Remove Existing and Install New Sign (s) and Post (s). | ⑥ Install New Reflector Marker with Post. |

SURVEY PLOTTED BY: _____ DATE: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 QUANTITIES BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 SHEET: _____

S-21 (1) PORTION



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R. T. Tanaka
 R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

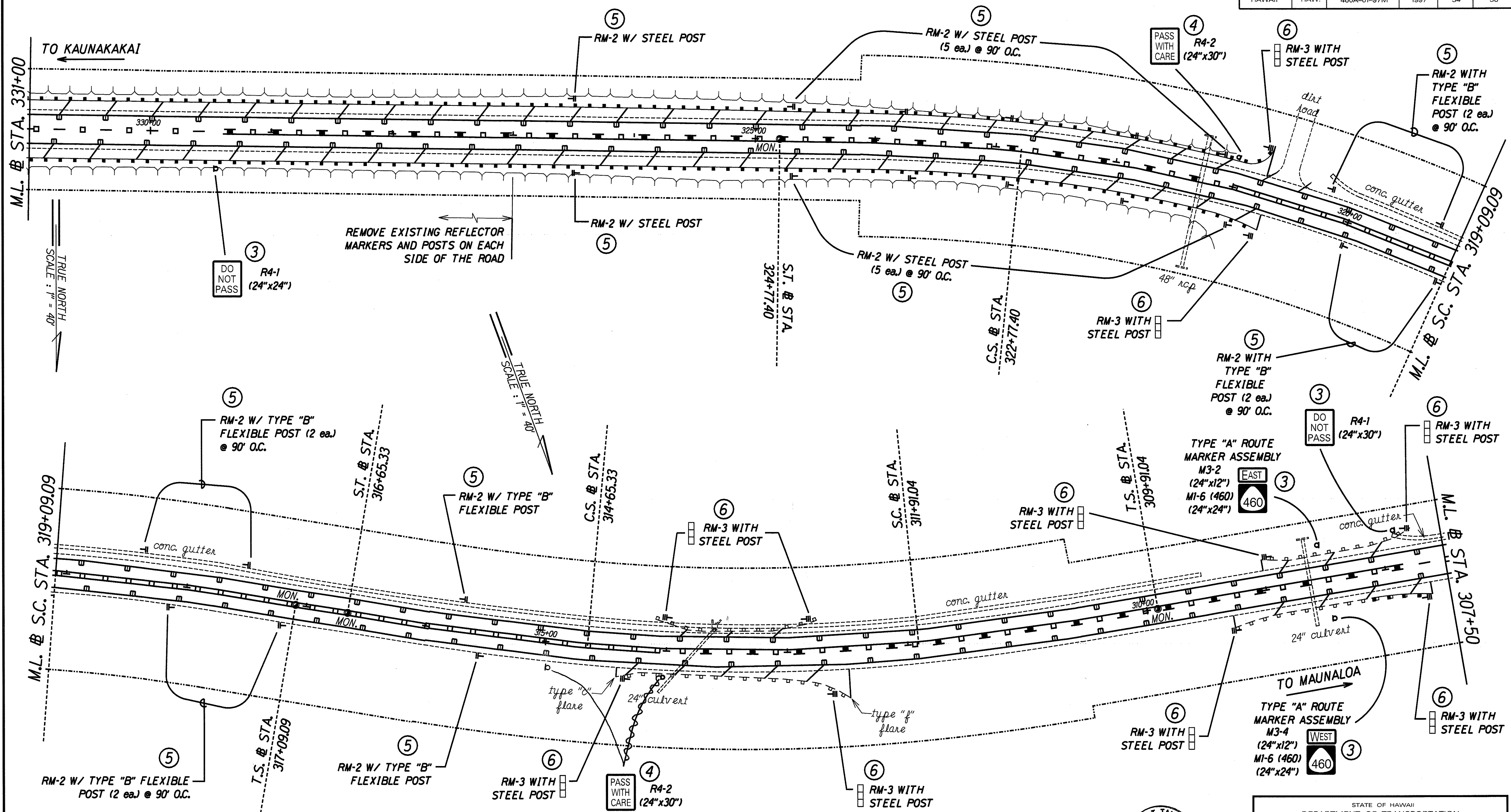
**MAUNALOA HIGHWAY RESURFACING
 HOOLEHUA TO MAHANA**

FEDERAL AID PROJECT NO. STP-0460 (12)
 Scale: 1" = 40' Date: JANUARY, 1997

SHEET No. 11 OF 13 SHEETS

"AS-BUILT"

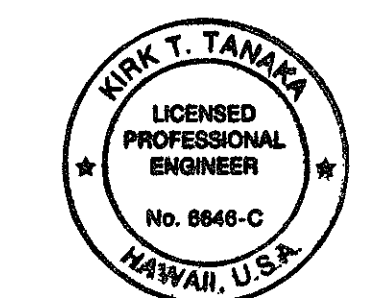
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-97M	1997	34	36



KEY TO SIGNAGE:

- | | |
|--|--|
| ① Existing Sign (s) and Post (s) to remain. | ④ Install New Sign (s) and Post (s). |
| ② Remove Existing Sign (s) and Post (s). | ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts. |
| ③ Remove Existing and Install New Sign (s) and Post (s). | ⑥ Install New Reflector Marker with Post. |

DATE: _____
 SURVEY PLOTTED BY: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN: _____
 NOTE BOOK: _____
 QUANTITIES BY: _____
 SCALE: _____



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Mark T. Tanaka
 R. T. TANAKA ENGINEERS, INC.
 CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

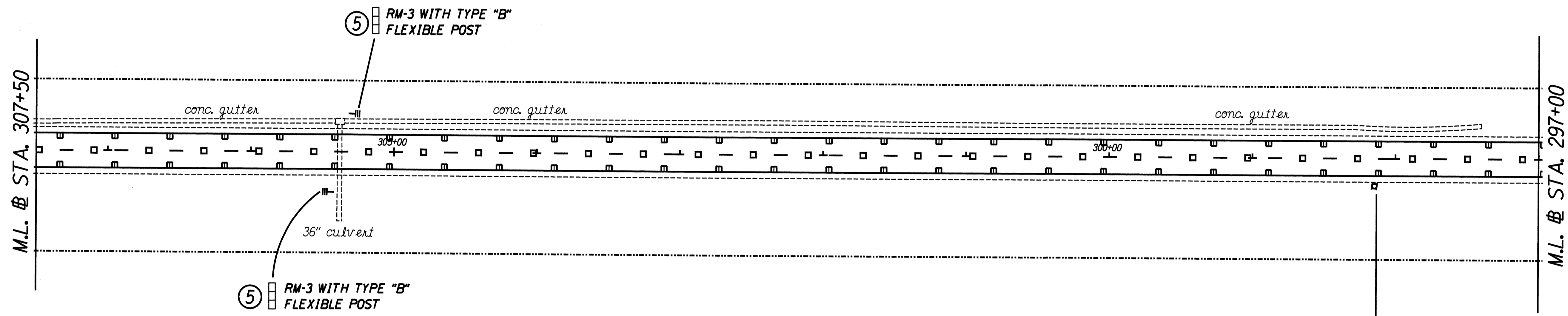
MAUNALOA HIGHWAY RESURFACING
 HOOLEHUA TO MAHANA
 FEDERAL AID PROJECT NO. STP-0460 (12)
 Scale: 1" = 40' Date: JANUARY, 1997

SHEET No. 12 OF 13 SHEETS

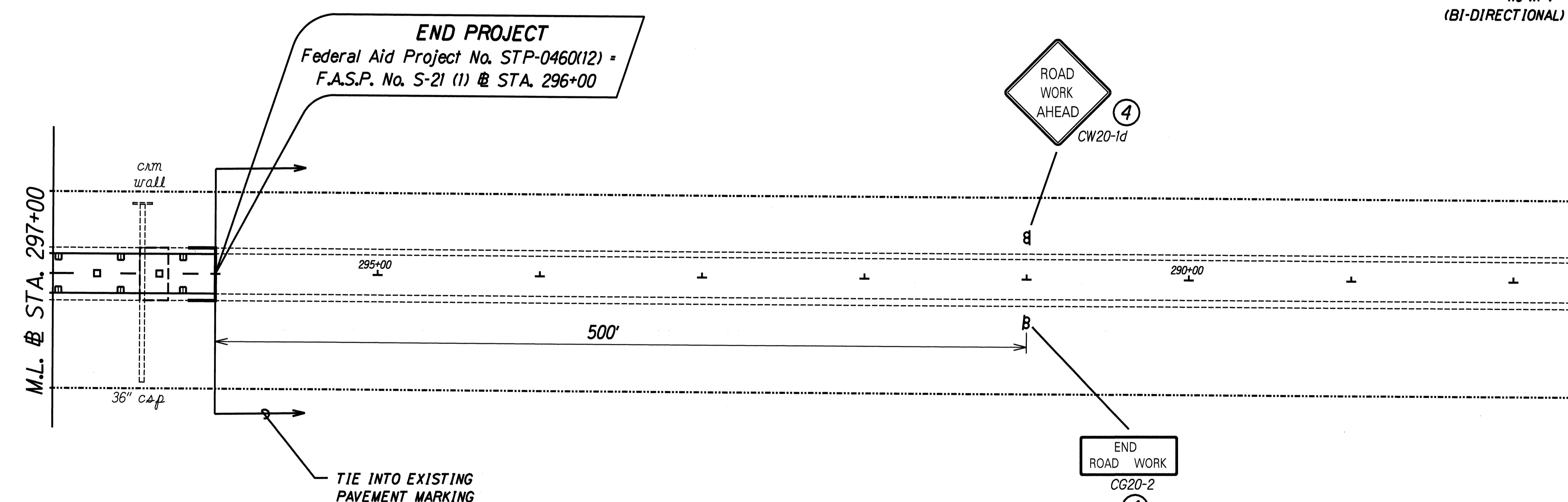
S-21 (1) PORTION

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0460 (12)	1997	35	36

TRUE NORTH
SCALE: 1" = 40'



TRUE NORTH
SCALE: 1" = 40'

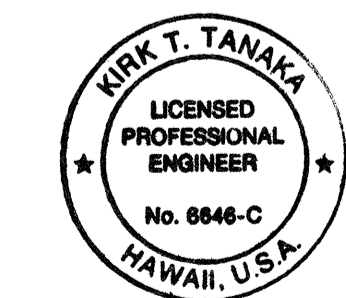


KEY TO SIGNAGE:

- | | |
|--|--|
| ① Existing Sign (s) and Post (s) to remain. | ④ Install New Sign (s) and Post (s). |
| ② Remove Existing Sign (s) and Post (s). | ⑤ Remove Existing Reflector Marker(s) with Post(s) and install new Reflector Marker(s) with Posts. |
| ③ Remove Existing and Install New Sign (s) and Post (s). | ⑥ Install New Reflector Marker with Post. |

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
SMOUT/FELSON	_____

S-21 (1) PORTION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
R. T. Tanaka
R. T. TANAKA ENGINEERS, INC.
CIVIL ENGINEERING - LAND SURVEYING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

**MAUNALOHA HIGHWAY RESURFACING
HOOLEHUA TO MAHANA**

FEDERAL AID PROJECT NO. STP-0460 (12)
Scale: 1" = 40' Date: JANUARY, 1997

SHEET No. 13 OF 13 SHEETS