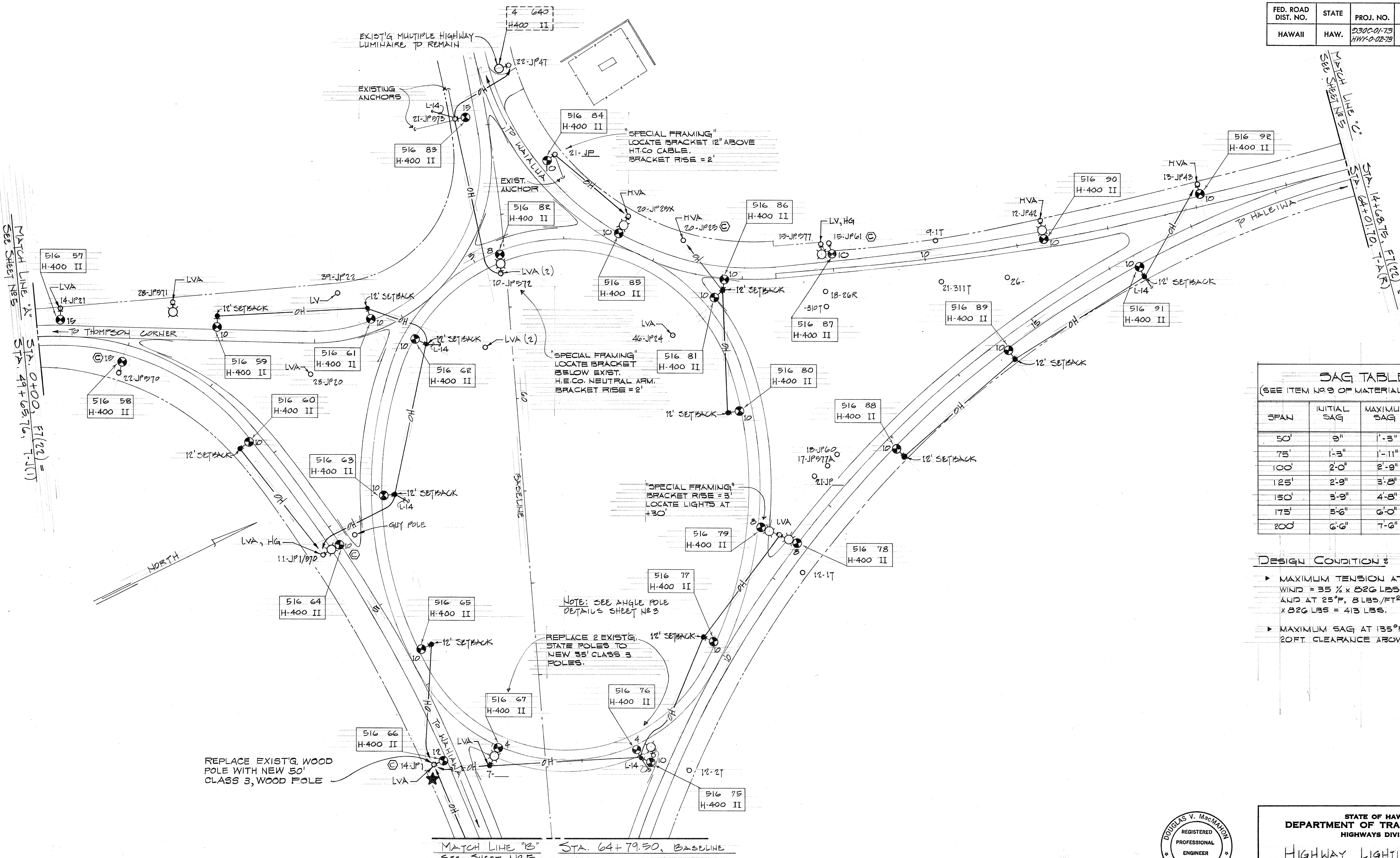


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	230C-01-73 HWY-0-02-73	1974	4	6



SAG TABLE
(SEE ITEM NO. 9 OF MATERIAL LIST-SHT. #6)

SPAN	INITIAL SAG	MAXIMUM SAG	MAX. TENSION IN LBS.
50'	3"	1'-3"	384
75'	1'-3"	1'-11"	413
100'	2'-0"	2'-9"	384
125'	2'-9"	3'-8"	409
150'	3'-9"	4'-8"	410
175'	5'-6"	6'-0"	357
200'	6'-6"	7'-6"	392

- DESIGN CONDITION:**
- ▶ MAXIMUM TENSION AT 60°F, 0 WIND = $35 \frac{1}{2} \times 826 \text{ LBS.} = 289 \text{ LBS.}$
AND AT 25°F, 8 LBS/FT² WIND = $50 \frac{1}{2} \times 826 \text{ LBS.} = 413 \text{ LBS.}$
 - ▶ MAXIMUM SAG AT 135°F, 0 WIND = 20 FT. CLEARANCE ABOVE GROUND.

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

DOUGLAS V. MACMAHON
REGISTERED PROFESSIONAL ENGINEER
No. 893
HAWAII, U. S. A.

Douglas V. MacMahon
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

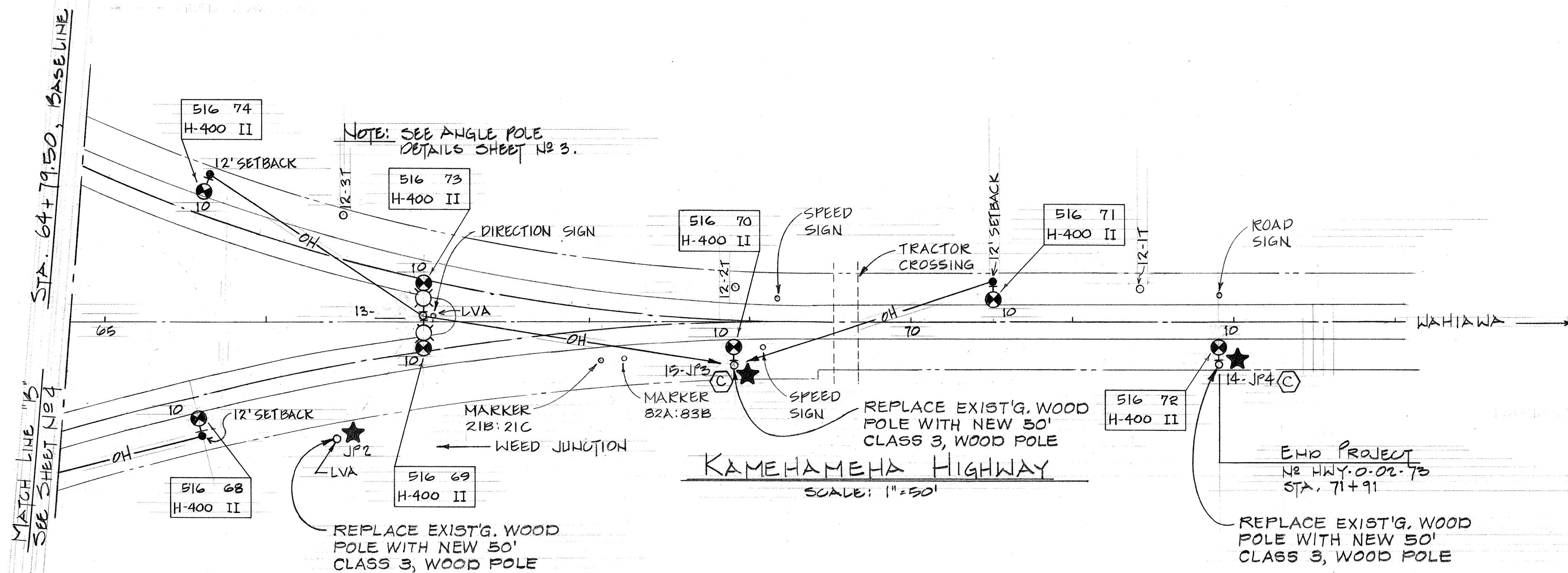
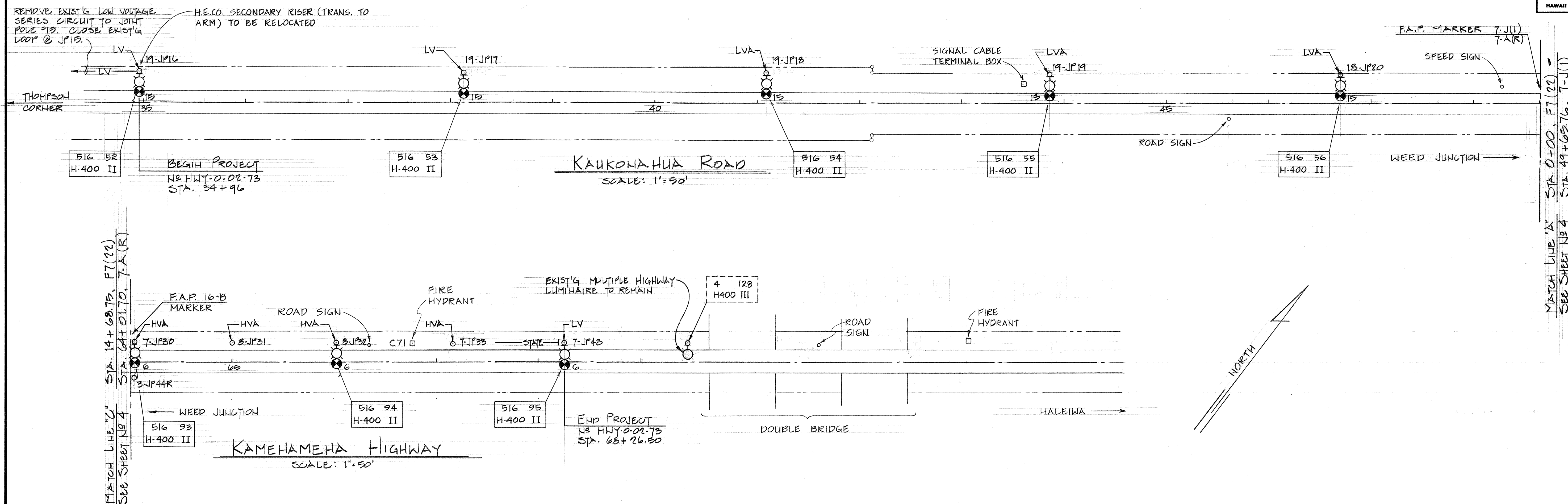
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING SYSTEM

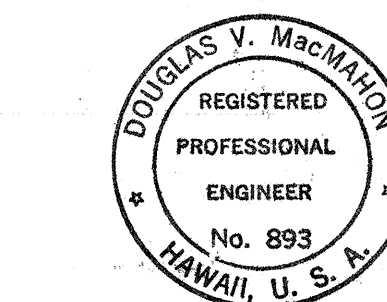
WEED JUNCTION
PROJECT NO. HWY-0-02-73

SHEET No. 4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	9300-01-73 HWY-0-02-73	1974	5	6



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



**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

HIGHWAY LIGHTING SYSTEM

NEED JUNCTION
PROJECT NO HWY-0-02-73

SHEET No. 5 OF 6 SHEETS