

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | RS-0190(5)         | 1979        | 3         | 22           |

# ± CURVE DATA

$\Delta = 21^\circ 54'$   
 $D = 7.16197'$   
 $R = 800'$   
 $T = 154.78'$   
 $L_c = 305.78'$   
 $E = 14.84'$   
 $S_e = 0.099$

STA. 81+91.20

Install 1-11'-5" x 7'-3" Structural Plate  
 Pipe-arch No. 8 Gage - Length = 65 L.F.;  
 2-9'-6" x 6'-5" Structural Plate Pipe-arch  
 No. 10 Gage - Total Length 130 L.F.; and  
 2 CRM Headwalls with GRP Aprons  
 See Sheets No. 6 & 7.

STA. 81+25 ± to STA. 83+25 ± Lt.

Install 200 L.F. Metal Guard Rail

STA. 81+55 ± to STA. 82+25 ± Lt.

Remove 68 L.F. of existing 5-Strand  
 Barbed Wire Fence (Incidental)  
 Install 90 L.F. of New 5-Strand  
 Barbed Wire Fence.

STA. 81+55 ± to STA. 82+25 ± Rt.

Remove 70 L.F. of existing Woven Wire Fence  
 (Incidental). Install 83 L.F. of New Woven  
 Wire Fence.

STA. 77+50 to STA. 78+00

Construct Easy Riding Connection

STA. 78+48.38 to STA. 79+98.38

Taper Pavement from 18 ft.  
 to 24 ft. (50:1 Taper)

STA. 78+00 to STA. 78+50

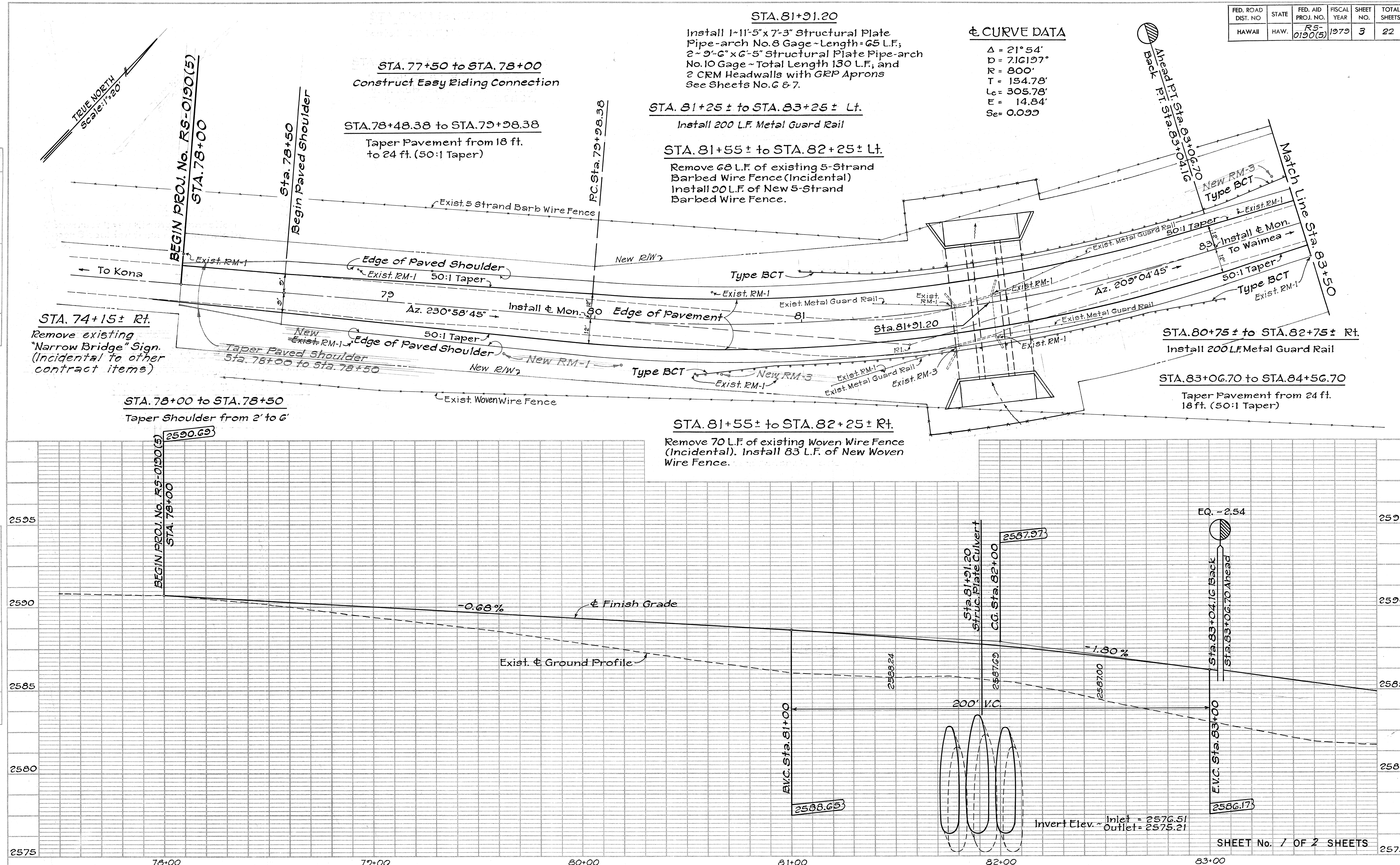
Taper Shoulder from 2' to 6'

STA. 80+75 ± to STA. 82+75 ± Rt.

Install 200 L.F. Metal Guard Rail

STA. 83+06.70 to STA. 84+56.70

Taper Pavement from 24 ft.  
 18 ft. (50:1 Taper)

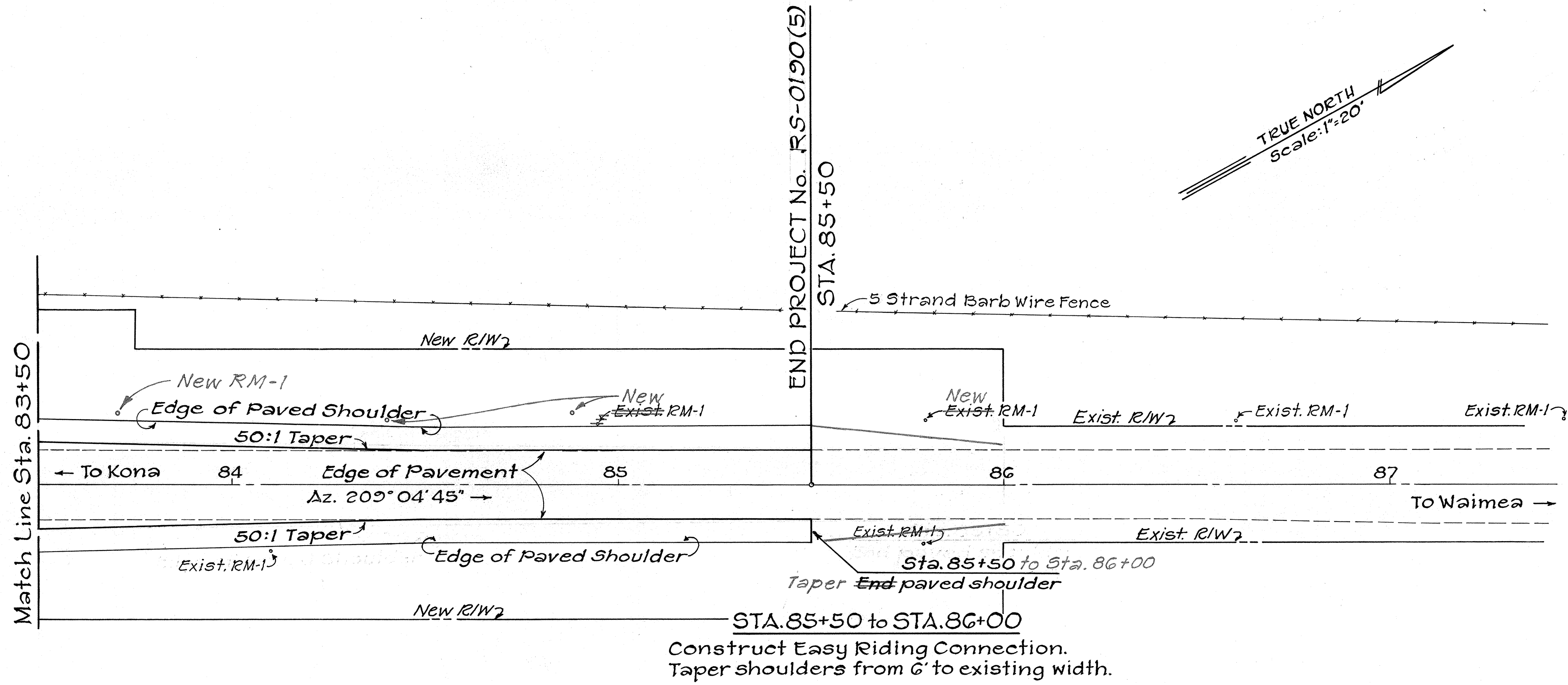


SHEET No. 7 OF 2 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | RS-0190(5)         | 1979        | 4         | 22           |

| PLAN          | DATE |
|---------------|------|
| SURVEYED      |      |
| PLOTTED       |      |
| CHECKED       |      |
| BY            |      |
| NOTE BOOK NO. |      |

| PROFILE            | DATE |
|--------------------|------|
| SURVEYED           |      |
| PLOTTED            |      |
| CHECKED            |      |
| BY                 |      |
| NOTE BOOK NO.      |      |
| STRUCTURE NOTATION |      |



STA. 89+50± Lt.  
Remove existing "Narrow Bridge" Sign. (Incidental to other contract items)

STA. 76+00 to STA. 88+00  
Remove all existing RM-1's and RM-3's. (Incidental to other contract items)

