no indication of photographers

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F32(2)	1946	14	27

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

Aug. 20, 1946

552.55 — 552.64 — 3 ƒ 84.19
Exc. = 7.0 C.Y.
Emb. = 14.8 C.Y.
C = 6 ℄
F = 12 ℄

553.02 — 552.97 — 3 ƒ 59.19
Exc. = 16.7 C.Y.
Emb. = 10.2 C.Y.
C = 9 ℄
F = 20 ℄

553.66 — 553.24 — 3 ƒ 34.19
Exc. = 30.6 C.Y.
Emb. = 3.7 C.Y.
C = 27 ℄
F = 2 ℄

554.46 — 553.62 — 3 ƒ 09.19
Exc. = 32.9 C.Y.
Emb. = 7.0 C.Y.
C = 39 ℄
F = 6 ℄

555.42 — 554.39 — 2 ƒ 84.19
Exc. = 27.5 C.Y.
Emb. = 7.0 C.Y.
C = 32 ℄
F = 9 ℄

556.63 — 556.56 — 2 ƒ 59.19
Exc. = 17.6 C.Y.
Emb. = 9.3 C.Y.
C = 28 ℄
F = 6 ℄

557.81 — 557.11 — 2 ƒ 34.19
Exc. = 6.0 C.Y.
Emb. = 15.8 C.Y.
C = 10 ℄
F = 14 ℄

558.97 — 558.86 — 2 ƒ 09.19
Exc. = 3.3 C.Y.
Emb. = 14.4 C.Y.
C = 3 ℄
F = 20 ℄

560.22 — 560.30 — 1 ƒ 84.19
Exc. = 8.2 C.Y.
Emb. = 9.5 C.Y.
C = 4 ℄
F = 11 ℄

561.86 — 561.90 — 1 ƒ 50
Exc. = 8.4 C.Y.
Emb. = 10.5 C.Y.
C = 9 ℄
F = 4 ℄

563.07 — 563.00 — 1 ƒ 12.27
C = 3 ℄
F = 11 ℄

540.66 — 540.33 — 7 ƒ 75
Exc. = 8.8 C.Y.
Emb. = 7.9 C.Y.
C = 16 ℄
F = 7 ℄

541.37 — 541.38 — 7 ƒ 50
Exc. = 7.4 C.Y.
Emb. = 18.5 C.Y.
C = 3 ℄
F = 10 ℄

542.62 — 543.54 — 7 ƒ 00
Exc. = 7.4 C.Y.
Emb. = 25.9 C.Y.
C = 5 ℄
F = 10 ℄

545.56 — 545.60 — 6 ƒ 50
Exc. = 4.6 C.Y.
Emb. = 37.0 C.Y.
C = 3 ℄
F = 18 ℄

547.00 — 547.41 — 6 ƒ 00
Exc. = 1.9 C.Y.
Emb. = 10.0 C.Y.
C = 2 ℄
F = 22 ℄

547.96 — 548.24 — 5 ƒ 75
Exc. = 2.3 C.Y.
Emb. = 16.2 C.Y.
C = 2 ℄
F = 19 ℄

548.89 — 549.00 — 5 ƒ 50
Exc. = 5.6 C.Y.
Emb. = 25.0 C.Y.
C = 3 ℄
F = 16 ℄

550.39 — 550.37 — 5 ƒ 00
Exc. = 8.3 C.Y.
Emb. = 16.7 C.Y.
C = 3 ℄
F = 11 ℄

551.53 — 551.49 — 4 ƒ 80
Exc. = 3.8 C.Y.
Emb. = 3.8 C.Y.
C = 6 ℄
F = 7 ℄

551.83 — 551.81 — 4 ƒ 34.19 S.C.
Exc. = 8.3 C.Y.
Emb. = 12.0 C.Y.
C = 7 ℄
F = 6 ℄

552.32 — 552.25 — 4 ƒ 09.19
Exc. = 7.9 C.Y.
Emb. = 14.8 C.Y.
C = 11 ℄
F = 20 ℄

535.48 — 536.21 — 13 ƒ 50
Exc. = 2.8 C.Y.
Emb. = 42.6 C.Y.
C = 0
F = 28 ℄

534.54 — 535.04 — 13 ƒ 00
Exc. = 7.4 C.Y.
Emb. = 35.2 C.Y.
C = 3 ℄
F = 18 ℄

533.97 — 534.17 — 12 ƒ 50
Exc. = 22.2 C.Y.
Emb. = 24.1 C.Y.
C = 5 ℄
F = 20 ℄

533.80 — 533.58 — 12 ƒ 00
Exc. = 37.0 C.Y.
Emb. = 10.2 C.Y.
C = 19 ℄
F = 6 ℄

533.66 — 533.28 — 11 ƒ 50
Exc. = 41.7 C.Y.
Emb. = 14.8 C.Y.
C = 21 ℄
F = 5 ℄

533.70 — 533.24 — 11 ƒ 00
Exc. = 20.4 C.Y.
Emb. = 7.4 C.Y.
C = 24 ℄
F = 4 ℄

533.80 — 533.34 — 10 ƒ 75
Exc. = 17.6 C.Y.
Emb. = 4.2 C.Y.
C = 20 ℄
F = 5 ℄

533.93 — 533.51 — 10 ƒ 50
C = 18 ℄
F = 4 ℄

End Bridge Sta. 10+28

Beg. Bridge Sta. 8+08

539.67 — 539.36 — 8 ƒ 00
Exc. = 12.5 C.Y.
Emb. = 4.6 C.Y.
C = 11 ℄
F = 3 ℄

543.80 — 541.64 — 16 ƒ 43.80
Exc. = 6.0 C.Y.
Emb. = 11.1 C.Y.
C = 7 ℄
F = 12 ℄

545.55 — 541.00 — 16 ƒ 18.80
Exc. = 6.0 C.Y.
Emb. = 8.8 C.Y.
C = 6 ℄
F = 12 ℄

544.61 — 544.31 — 15 ƒ 93.80
Exc. = 0.3 C.Y.
Emb. = 5.1 C.Y.
C = 7 ℄
F = 7 ℄

544.00 — 543.55 — 15 ƒ 68.80
Exc. = 12.0 C.Y.
Emb. = 3.7 C.Y.
C = 13 ℄
F = 4 ℄

543.26 — 542.73 — 15 ƒ 43.80
Exc. = 13.0 C.Y.
Emb. = 2.8 C.Y.
C = 13 ℄
F = 4 ℄

542.43 — 541.84 — 15 ƒ 18.80
Exc. = 13.4 C.Y.
Emb. = 2.3 C.Y.
C = 17 ℄
F = 2 ℄

541.56 — 540.94 — 14 ƒ 93.80
Exc. = 10.2 C.Y.
Emb. = 4.2 C.Y.
C = 12 ℄
F = 3 ℄

540.57 — 540.04 — 14 ƒ 68.80
Exc. = 7.0 C.Y.
Emb. = 6.5 C.Y.
C = 10 ℄
F = 6 ℄

539.41 — 539.13 — 14 ƒ 43.80 C.S.
Exc. = 7.3 C.Y.
Emb. = 19.2 C.Y.
C = 7 ℄
F = 8 ℄

537.23 — 537.64 — 14 ƒ 00
Exc. = 1.0 C.Y.
Emb. = 40.7 C.Y.
C = 2 ℄
F = 16 ℄

548.23 — 547.76 — 20 ƒ 00
Exc. = 26.0 C.Y.
Emb. = 0
C = 17 ℄
F = 0

548.22 — 548.24 — 19 ƒ 50
Exc. = 28.7 C.Y.
Emb. = 0
C = 12 ℄
F = 0

548.08 — 548.46 — 19 ƒ 00
Exc. = 42.6 C.Y.
Emb. = 0
C = 19 ℄
F = 0

549.10 — 548.44 — 18 ƒ 50
Exc. = 35.2 C.Y.
Emb. = 1.9 C.Y.
C = 27 ℄
F = 0

548.35 — 548.16 — 18 ƒ 00
Exc. = 16.7 C.Y.
Emb. = 5.6 C.Y.
C = 11 ℄
F = 2 ℄

547.74 — 547.62 — 17 ƒ 50
Exc. = 14.8 C.Y.
Emb. = 8.3 C.Y.
C = 7 ℄
F = 4 ℄

546.92 — 546.83 — 17 ƒ 00
Exc. = 2.0 C.Y.
Emb. = 1.0 C.Y.
C = 9 ℄
F = 5 ℄

546.80 — 546.71 — 16 ƒ 93.80 S.T.
Exc. = 9.7 C.Y.
Emb. = 7.4 C.Y.
C = 16 ℄
F = 4 ℄

546.34 — 546.20 — 16 ƒ 68.80
Exc. = 5.6 C.Y.
Emb. = 11.1 C.Y.
C = 5 ℄
F = 12 ℄

PLATE 3 - CROSS SECTION U.S.P.R.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 49330-3

5221.14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F 32(2)	1946	15	27

540.00	539.58		
23+00		C = 10 ☆	
Exc. = 11.1 C.Y.		F = 2 ☆	
Emb. = 1.9 C.Y.			
541.06	540.60		
22+75		C = 14 ☆	
Exc. = 12.0 C.Y.		F = 2 ☆	
Emb. = 1.9 C.Y.			
542.05	541.57		
22+50		C = 12 ☆	
Exc. = 0.7 C.Y.		F = 2 ☆	
Emb. = 1.9 C.Y.			
542.84	542.47		
22+25		C = 9 ☆	
Exc. = 7.0 C.Y.		F = 2 ☆	
Emb. = 2.3 C.Y.			
543.59	543.32		
22+00		C = 6 ☆	
Exc. = 4.2 C.Y.		F = 3 ☆	
Emb. = 3.7 C.Y.			
544.14	544.09		
21+75		C = 5 ☆	
Exc. = 11.1 C.Y.		F = 5 ☆	
Emb. = 6.0 C.Y.			
544.69	544.81		
21+50		C = 19 ☆	
Exc. = 8.8 C.Y.		F = 8 ☆	
Emb. = 16.2 C.Y.			
545.40	545.45		
21+25		C = 0	
Exc. = 0		F = 27 ☆	
Emb. = 26.4 C.Y.			
545.91	546.04		
21+00		C = 0	
Exc. = 4.6 C.Y.		F = 30 ☆	
Emb. = 31.5 C.Y.			
547.23	547.03		
20+50		C = 5 ☆	
Exc. = 20.4 C.Y.		F = 4 ☆	
Emb. = 3.7 C.Y.			

524.47	524.05		
25+75		C = 11 ☆	
Exc. = 11.6 C.Y.		F = 5 ☆	
Emb. = 2.8 C.Y.			
526.36	525.78		
25+50		C = 14 ☆	
Exc. = 12.0 C.Y.		F = 1 ☆	
Emb. = 1.9 C.Y.			
528.00	527.44		
25+25		C = 12 ☆	
Exc. = 10.7 C.Y.		F = 3 ☆	
Emb. = 2.8 C.Y.			
529.53	529.04		
25+00		C = 11 ☆	
Exc. = 11.1 C.Y.		F = 3 ☆	
Emb. = 2.3 C.Y.			
531.08	530.57		
24+75		C = 13 ☆	
Exc. = 0.7 C.Y.		F = 2 ☆	
Emb. = 2.3 C.Y.			
532.53	532.05		
24+50		C = 8 ☆	
Exc. = 0.3 C.Y.		F = 3 ☆	
Emb. = 3.3 C.Y.			
533.82	533.46		
24+25		C = 12 ☆	
Exc. = 11.1 C.Y.		F = 4 ☆	
Emb. = 3.7 C.Y.			
535.20	534.81		
24+00		C = 12 ☆	
Exc. = 8.8 C.Y.		F = 4 ☆	
Emb. = 3.7 C.Y.			
536.44	536.10		
23+75		C = 7 ☆	
Exc. = 8.3 C.Y.		F = 4 ☆	
Emb. = 3.7 C.Y.			
537.60	537.32		
23+50		C = 11 ☆	
Exc. = 0.3 C.Y.		F = 4 ☆	
Emb. = 2.3 C.Y.			
538.88	538.41		
23+25		C = 9 ☆	
Exc. = 8.8 C.Y.		F = 1 ☆	
Emb. = 1.4 C.Y.			

505.62	504.69		
28+50		C = 26 ☆	
Exc. = 22.2 C.Y.		F = 1 ☆	
Emb. = 2.3 C.Y.			
507.23	506.45		
28+25		C = 22 ☆	
Exc. = 18.1 C.Y.		F = 4 ☆	
Emb. = 3.7 C.Y.			
508.81	508.21		
28+00		C = 17 ☆	
Exc. = 12.0 C.Y.		F = 4 ☆	
Emb. = 4.6 C.Y.			
510.46	509.97		
27+75		C = 9 ☆	
Exc. = 6.5 C.Y.		F = 6 ☆	
Emb. = 6.0 C.Y.			
511.86	511.73		
27+50		C = 5 ☆	
Exc. = 4.6 C.Y.		F = 7 ☆	
Emb. = 7.4 C.Y.			
513.62	513.47		
27+25		C = 5 ☆	
Exc. = 5.6 C.Y.		F = 9 ☆	
Emb. = 7.4 C.Y.			
515.37	515.25		
27+00		C = 7 ☆	
Exc. = 7.4 C.Y.		F = 7 ☆	
Emb. = 6.5 C.Y.			
517.25	517.01		
26+75		C = 13 ☆	
Exc. = 10.2 C.Y.		F = 7 ☆	
Emb. = 7.0 C.Y.			
519.10	518.77		
26+50		C = 9 ☆	
Exc. = 11.1 C.Y.		F = 8 ☆	
Emb. = 6.5 C.Y.			
520.79	520.53		
26+25		C = 11 ☆	
Exc. = 10.7 C.Y.		F = 6 ☆	
Emb. = 5.6 C.Y.			
522.67	522.29		
26+00		C = 12 ☆	
Exc. = 10.7 C.Y.		F = 6 ☆	
Emb. = 5.1 C.Y.			

488.97	488.59		
32+50		C = 15 ☆	
Exc. = 38.0 C.Y.		F = 2 ☆	
Emb. = 1.4 C.Y.			
490.99	489.77		
32+00		C = 27 ☆	
Exc. = 45.4 C.Y.		F = 1 ☆	
Emb. = 0.5 C.Y.			
491.51	490.30		
31+50		C = 32 ☆	
Exc. = 63.9 C.Y.		F = 0	
Emb. = 0			
493.14	491.76		
31+00		C = 37 ☆	
Exc. = 77.8 C.Y.		F = 0	
Emb. = 0			
494.94	493.60		
30+50		C = 47 ☆	
Exc. = 83.3 C.Y.		F = 0	
Emb. = 0			
497.52	495.81		
30+00		C = 43 ☆	
Exc. = 44.0 C.Y.		F = 0	
Emb. = 0			
498.66	497.06		
29+75		C = 52 ☆	
Exc. = 46.8 C.Y.		F = 0	
Emb. = 0			
499.86	498.40		
29+50		C = 49 ☆	
Exc. = 45.8 C.Y.		F = 0	
Emb. = 0			
501.22	499.83		
29+25		C = 50 ☆	
Exc. = 40.3 C.Y.		F = 0	
Emb. = 0			
502.57	501.36		
29+00		C = 37 ☆	
Exc. = 30.6 C.Y.		F = 0	
Emb. = 0.5 C.Y.			
504.00	502.97		
28+75		C = 29 ☆	
Exc. = 27.3 C.Y.		F = 1 ☆	
Emb. = 0.9 C.Y.			

492.78	492.54		
35+50		C = 10 ☆	
Exc. = 7.0 C.Y.		F = 4 ☆	
Emb. = 3.7 C.Y.			
491.86	491.73		
35+25		C = 7 ☆	
Exc. = 3.7 C.Y.		F = 4 ☆	
Emb. = 4.2 C.Y.			
490.85	491.02		
35+00		C = 1 ☆	
Exc. = 0.9 C.Y.		F = 5 ☆	
Emb. = 4.2 C.Y.			
490.17	490.35		
34+75		C = 1 ☆	
Exc. = 0.9 C.Y.		F = 4 ☆	
Emb. = 6.0 C.Y.			
489.68	489.79		
34+50		C = 1 ☆	
Exc. = 0.5 C.Y.		F = 9 ☆	
Emb. = 7.9 C.Y.			
489.06	489.31		
34+25		C = 0	
Exc. = 0		F = 8 ☆	
Emb. = 6.0 C.Y.			
488.71	488.93		
34+00		C = 0	
Exc. = 0.9 C.Y.		F = 5 ☆	
Emb. = 18.5 C.Y.			
488.35	488.45		
33+50		C = 1 ☆	
Exc. = 5.6 C.Y.		F = 15 ☆	
Emb. = 27.8 C.Y.			
488.24	488.32		
33+00		C = 5 ☆	
Exc. = 18.5 C.Y.		F = 16 ☆	
Emb. = 15.7 C.Y.			

FINAL SURVEY — SURVEYED, BY; PLOTTED, DATE; TEMPLATE, BY; AREAS, DATE; NOTE BOOK, AREAS CHECKED; NO.

ORIGINAL SURVEY — SURVEYED, BY; PLOTTED, DATE; TEMPLATE, BY; AREAS, DATE; NOTE BOOK, AREAS CHECKED; NO.

Aug. 20, 1946

PLATE 3 - CROSS SECTION U.S.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3

5221.15

5221.15

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F32(2)	1946	16	27

FINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / NOTE BOOK / AREAS / NO. / AREAS CHECKED / BY / DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / NOTE BOOK / AREAS / NO. / AREAS CHECKED / BY / DATE

Aug. 20, 1946

504.61 504.03
37+75
Exc. = 14.8 C.Y.
Emb. = 2.3 C.Y.

502.75 502.38
37+50
Exc. = 10.7 C.Y.
Emb. = 17.1 C.Y.

500.84 500.82
37+25
Exc. = 3.4 C.Y.
Emb. = 102.3 C.Y.

499.51 499.36
37+00
Exc. = 0.5 C.Y.
Emb. = 110.0 C.Y.

498.20 497.99
36+75
Exc. = 3.7 C.Y.
Emb. = 38.4 C.Y.

496.81 496.71
36+50
Exc. = 7.9 C.Y.
Emb. = 6.5 C.Y.

495.69 495.53
36+25
Exc. = 7.9 C.Y.
Emb. = 1.9 C.Y.

494.65 494.44
36+00
Exc. = 6.0 C.Y.
Emb. = 1.9 C.Y.

493.62 493.44
35+75
Exc. = 8.3 C.Y.
Emb. = 3.1 C.Y.

520.80 520.89
40+00
Exc. = 1.4 C.Y.
Emb. = 10.2 C.Y.
C = 16 #
F = 3 #
C = 2 #
F = 9 #

518.00 519.13
39+75
Exc. = 2.8 C.Y.
Emb. = 7.0 C.Y.
C = 16 #
F = 2 #
C = 1 #
F = 13 #

517.37 517.33
39+50
Exc. = 2.3 C.Y.
Emb. = 4.6 C.Y.
C = 7 #
F = 35 #
C = 1 #
F = 6 #

515.51 515.44
39+25
Exc. = 3.7 C.Y.
Emb. = 5.1 C.Y.
C = 4 #
F = 4 #

513.69 513.51
39+00
Exc. = 4.6 C.Y.
Emb. = 7.0 C.Y.
C = 0
F = 186 #
C = 4 #
F = 7 #

511.81 511.54
38+75
Exc. = 5.6 C.Y.
Emb. = 6.5 C.Y.
C = 1 #
F = 71 #
C = 6 #
F = 8 #

509.86 509.56
38+50
Exc. = 8.8 C.Y.
Emb. = 5.6 C.Y.
C = 7 #
F = 12 #
C = 6 #
F = 6 #

508.12 507.62
38+25
Exc. = 12.5 C.Y.
Emb. = 5.1 C.Y.
C = 10 #
F = 2 #
C = 13 #
F = 6 #

506.36 505.78
38+00
Exc. = 13.9 C.Y.
Emb. = 3.7 C.Y.
C = 14 #
F = 2 #
C = 14 #
F = 5 #

534.02 533.67
42+50
Exc. = 7.5 C.Y.
Emb. = 5.9 C.Y.
C = 7 #
F = 8 #

Equation — minus (1,427.36)
Sta. 42+45.52
Sta. 42+18.16

532.93 532.60
42+00
Exc. = 8.3 C.Y.
Emb. = 6.0 C.Y.
C = 11 #
F = 6 #

531.57 531.36
41+75
Exc. = 10.7 C.Y.
Emb. = 5.1 C.Y.
C = 7 #
F = 7 #

530.41 530.05
41+50
Exc. = 12.0 C.Y.
Emb. = 4.6 C.Y.
C = 16 #
F = 4 #

529.11 528.68
41+25
Exc. = 11.6 C.Y.
Emb. = 6.0 C.Y.
C = 10 #
F = 6 #

527.76 527.25
41+00
Exc. = 11.1 C.Y.
Emb. = 6.5 C.Y.
C = 15 #
F = 7 #

526.19 525.76
40+75
Exc. = 6.0 C.Y.
Emb. = 6.5 C.Y.
C = 9 #
F = 7 #

524.45 524.20
40+50
Exc. = 2.3 C.Y.
Emb. = 6.5 C.Y.
C = 4 #
F = 7 #

522.55 522.38
40+25
Exc. = 1.4 C.Y.
Emb. = 7.4 C.Y.
C = 1 #
F = 7 #

542.57 542.83
45+44.92
Exc. = 13.9 C.Y.
Emb. = 6.5 C.Y.
C = 14 #
F = 7 #

543.18 542.41
45+19.92
Exc. = 14.4 C.Y.
Emb. = 5.6 C.Y.
C = 16 #
F = 7 #

542.70 541.91
44+94.92
Exc. = 14.8 C.Y.
Emb. = 5.6 C.Y.
C = 15 #
F = 5 #

542.14 541.35
44+69.92
Exc. = 16.2 C.Y.
Emb. = 4.2 C.Y.
C = 17 #
F = 7 #

541.49 540.72
44+44.92
Exc. = 17.6 C.Y.
Emb. = 3.7 C.Y.
C = 18 #
F = 4 #

540.86 540.03
44+19.92
Exc. = 17.6 C.Y.
Emb. = 4.2 C.Y.
C = 20 #
F = 4 #

540.09 539.28
43+94.92
Exc. = 17.1 C.Y.
Emb. = 3.3 C.Y.
C = 18 #
F = 5 #

539.34 538.46
43+69.92
Exc. = 19.4 C.Y.
Emb. = 1.4 C.Y.
C = 19 #
F = 2 #

538.39 537.59
43+44.92 T.S.
Exc. = 30.0 C.Y.
Emb. = 5.0 C.Y.
C = 23 #
F = 1 #

536.37 535.85
43+00
Exc. = 18.5 C.Y.
Emb. = 12.0 C.Y.
C = 13 #
F = 5 #

544.91 545.00
50+00
Exc. = 4.6 C.Y.
Emb. = 24.1 C.Y.
C = 0
F = 15 #

544.96 544.85
49+50
Exc. = 6.5 C.Y.
Emb. = 21.3 C.Y.
C = 5 #
F = 11 #

545.06 544.71
49+00
Exc. = 6.5 C.Y.
Emb. = 10.2 C.Y.
C = 2 #
F = 12 #

544.78 544.57
48+50
Exc. = 10.2 C.Y.
Emb. = 11.1 C.Y.
C = 5 #
F = 9 #

544.69 544.43
48+00
Exc. = 8.3 C.Y.
Emb. = 13.0 C.Y.
C = 6 #
F = 3 #

544.32 544.28
47+50
Exc. = 7.4 C.Y.
Emb. = 16.7 C.Y.
C = 3 #
F = 11 #

544.52 544.14
47+00
Exc. = 11.1 C.Y.
Emb. = 12.0 C.Y.
C = 5 #
F = 7 #

544.35 543.97
46+50
Exc. = 17.6 C.Y.
Emb. = 11.1 C.Y.
C = 7 #
F = 6 #

544.11 543.58
46+00
Exc. = 15.0 C.Y.
Emb. = 6.1 C.Y.
C = 12 #
F = 6 #

543.70 543.21
45+69.92
Exc. = 13.4 C.Y.
Emb. = 5.6 C.Y.
C = 15 #
F = 5 #

PLATE 3 - CROSS SECTION U.S.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 49334-3

5221.16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F32(2)	1946	17	27

FINAL SURVEY — SURVEYED, PLOTTED, TRACED, AREAS, AREAS CHECKED, NOTE BOOK, NO. — BY — DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TRACED, AREAS, AREAS CHECKED, NOTE BOOK, NO. — BY — DATE

Aug. 20, 1946

552.16 552.14
55+00
Exc. = 0.0 C.Y. C = 1 #
Emb. = 23.2 C.Y. F = 14 #

550.12 550.35
54+50
Exc. = 0 C = 0
Emb. = 24.1 C.Y. F = 11 #

548.80 548.90
54+00
Exc. = 4.6 C.Y. C = 0
Emb. = 22.2 C.Y. F = 16 #

547.72 547.70
53+50
Exc. = 7.4 C.Y. C = 5 #
Emb. = 13.9 C.Y. F = 9 #

546.84 546.76
53+00
Exc. = 4.6 C.Y. C = 3 #
Emb. = 16.7 C.Y. F = 6 #

545.88 546.07
52+50
Exc. = 2.8 C.Y. C = 2 #
Emb. = 116.7 C.Y. F = 12 #

545.32 545.62
52+00
Exc. = 0.9 C.Y. C = 1 #
Emb. = 121.3 C.Y. F = 114 #

544.32 544.43
51+50
Exc. = 0 C = 0
Emb. = 25.0 C.Y. F = 17 #

545.35 545.22
51+00
Exc. = 0.9 C.Y. C = 0
Emb. = 18.5 C.Y. F = 10 #

545.25 545.14
50+50
Exc. = 0.9 C.Y. C = 1 #
Emb. = 2.32 C.Y. F = 10 #

562.05 561.84
57+88.36
Exc. = 4.6 C.Y. C = 10 #
Emb. = 5.1 C.Y. F = 5 #

561.38 561.29
57+63.36
Exc. = 0.5 C.Y. C = 0
Emb. = 5.6 C.Y. F = 6 #

560.72 560.68
57+38.36
Exc. = 0.5 C.Y. C = 1 #
Emb. = 5.6 C.Y. F = 6 #

560.06 560.01
57+13.36
Exc. = 0.5 C.Y. C = 0
Emb. = 8.8 C.Y. F = 6 #

559.27 559.28
56+88.36
Exc. = 0.9 C.Y. C = 1 #
Emb. = 8.3 C.Y. F = 13 #

558.46 558.49
56+63.36
Exc. = 1.9 C.Y. C = 1 #
Emb. = 6.0 C.Y. F = 5 #

557.53 557.64
56+38.36
Exc. = 0.5 C.Y. C = 1 #
Emb. = 7.4 C.Y. F = 8 #

556.75 556.74
56+13.36
Exc. = 0.5 C.Y. C = 0
Emb. = 7.4 C.Y. F = 8 #

555.63 555.77
55+88.36
Exc. = 1.4 C.Y. C = 1 #
Emb. = 9.9 C.Y. F = 8 #

554.08 554.18
55+50
Exc. = 1.9 C.Y. C = 1 #
Emb. = 18.0 C.Y. F = 6 #

564.40 564.04
60+59.24
Exc. = 10.7 C.Y. C = 14 #
Emb. = 2.8 C.Y. F = 3 #

564.64 564.13
60+34.24
Exc. = 8.3 C.Y. C = 9 #
Emb. = 3.3 C.Y. F = 3 #

564.67 564.16
60+09.24
Exc. = 6.5 C.Y. C = 9 #
Emb. = 3.7 C.Y. F = 4 #

564.49 564.13
59+84.24
Exc. = 6.0 C.Y. C = 5 #
Emb. = 4.2 C.Y. F = 4 #

564.39 564.03
59+59.24
Exc. = 7.4 C.Y. C = 8 #
Emb. = 5.1 C.Y. F = 5 #

564.24 563.89
59+34.24
Exc. = 7.0 C.Y. C = 8 #
Emb. = 5.1 C.Y. F = 6 #

564.01 563.69
59+09.24
Exc. = 6.5 C.Y. C = 7 #
Emb. = 5.1 C.Y. F = 5 #

563.88 563.42
58+84.24 T.S.
Exc. = 14.2 C.Y. C = 7 #
Emb. = 3.9 C.Y. F = 6 #

563.39 562.96
58+50
Exc. = 16.3 C.Y. C = 15 #
Emb. = 1.4 C.Y. F = 0

562.74 562.34
58+13.36 S.T.
Exc. = 8.8 C.Y. C = 9 #
Emb. = 3.3 C.Y. F = 2 #

553.08 552.96
65+00
Exc. = 9.3 C.Y. C = 5 #
Emb. = 14.8 C.Y. F = 9 #

558.19 555.03
64+50
Exc. = 11.1 C.Y. C = 5 #
Emb. = 12.0 C.Y. F = 7 #

557.19 556.99
64+00
Exc. = 13.0 C.Y. C = 7 #
Emb. = 7.4 C.Y. F = 6 #

558.17 558.71
63+50
Exc. = 13.0 C.Y. C = 7 #
Emb. = 5.6 C.Y. F = 2 #

560.30 560.19
63+00
Exc. = 14.8 C.Y. C = 7 #
Emb. = 13.9 C.Y. F = 4 #

561.42 561.44
62+50
Exc. = 16.7 C.Y. C = 9 #
Emb. = 20.4 C.Y. F = 11 #

562.92 562.45
62+00
Exc. = 13.9 C.Y. C = 9 #
Emb. = 13.9 C.Y. F = 11 #

563.38 563.23
61+50
Exc. = 3.3 C.Y. C = 6 #
Emb. = 3.1 C.Y. F = 4 #

563.80 563.42
61+34.24
Exc. = 8.3 C.Y. C = 6 #
Emb. = 4.6 C.Y. F = 7 #

563.85 563.69
61+09.24
Exc. = 10.7 C.Y. C = 12 #
Emb. = 2.8 C.Y. F = 3 #

564.20 563.89
60+84.24
Exc. = 11.6 C.Y. C = 11 #
Emb. = 2.8 C.Y. F = 3 #

533.36 533.96
70+50
Exc. = 0.9 C.Y. C = 0
Emb. = 19.4 C.Y. F = 22 #

534.46 534.87
70+00
Exc. = 0.9 C.Y. C = 1 #
Emb. = 18.5 C.Y. F = 9 #

535.68 535.98
69+50
Exc. = 2.8 C.Y. C = 0
Emb. = 15.7 C.Y. F = 11 #

537.12 537.31
69+00
Exc. = 4.6 C.Y. C = 3 #
Emb. = 10.2 C.Y. F = 6 #

538.82 538.85
68+50
Exc. = 3.7 C.Y. C = 2 #
Emb. = 8.3 C.Y. F = 5 #

540.64 540.61
68+00
Exc. = 7.4 C.Y. C = 2 #
Emb. = 6.5 C.Y. F = 4 #

542.73 542.57
67+50
Exc. = 13.0 C.Y. C = 6 #
Emb. = 6.5 C.Y. F = 3 #

544.86 544.66
67+00
Exc. = 13.0 C.Y. C = 8 #
Emb. = 7.4 C.Y. F = 4 #

546.83 546.73
66+50
Exc. = 16.7 C.Y. C = 6 #
Emb. = 3.7 C.Y. F = 4 #

548.85 548.81
66+00
Exc. = 17.6 C.Y. C = 12 #
Emb. = 2.8 C.Y. F = 0

551.05 550.88
65+50
Exc. = 11.1 C.Y. C = 7 #
Emb. = 11.1 C.Y. F = 3 #

PLATE 3 - CROSS SECTION - U.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 10/30-2

5221.17

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F32(2)	1946	18	27

FINAL SURVEY — SURVEYED, COMPUTED, TEMPLATE, AREAS, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

ORIGINAL SURVEY — SURVEYED, COMPUTED, TEMPLATE, AREAS, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

Aug. 20, 1946

5221.18

PLATE 3 - CROSS SECTION U.S.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 47531-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F32(2)	1946	19	27

FINAL SURVEY — ORIGINAL SURVEY — Aug. 20, 1946

	BY	DATE
SURVEYED	J.F.A.	6/46
PLOTTED	J.F.A.	7-46
NOTE BOOK		
AREAS	K.S.	7-46
NO.	AREAS CHECKED	

91+91.28 — Sta 365.92 — Sta 365.91 — C = 0, F = 15 ft — Exc = 0, Emb = 9.7 c.y.

91+66.28 — Sta 365.60 — Sta 365.66 — C = 0, F = 6 ft — Exc = 0, Emb = 5.6 c.y.

91+41.28 — Sta 365.34 — Sta 365.33 — C = 0, F = 6 ft — Exc = 0, Emb = 5.6 c.y.

91+16.28 — Sta 364.97 — Sta 364.94 — C = 0, F = 6 ft — Exc = 0.9 c.y., Emb = 6.0 c.y.

90+91.28 — Sta 364.54 — Sta 364.50 — C = 2 ft, F = 7 ft — Exc = 0.9 c.y., Emb = 6.0 c.y.

90+66.28 — Sta 364.05 — Sta 364.04 — C = 0, F = 6 ft — Exc = 2.3 c.y., Emb = 5.6 c.y.

90+41.28 — Sta 363.62 — Sta 362.58 — C = 5 ft, F = 6 ft — Exc = 2.3 c.y., Emb = 7.0 c.y.

90+16.28 — Sta 363.05 — Sta 363.13 — C = 0, F = 9 ft — Exc = 2.8 c.y., Emb = 7.4 c.y.

89+91.28 — Sta 362.80 — Sta 362.67 — C = 6 ft, F = 7 ft — Exc = 6.0 c.y., Emb = 6.0 c.y.

89+66.28 C.S. — Sta 362.26 — Sta 362.21 — C = 7 ft, F = 6 ft — Exc = 3.9 c.y., Emb = 2.7 c.y.

96+50 — Sta 360.14 — Sta 360.04 — C = 3 ft, F = 4 ft — Exc = 2.6 c.y., Emb = 7.4 c.y.

96+00 — Sta 361.79 — Sta 361.64 — C = 2 ft, F = 4 ft — Exc = 7.4 c.y., Emb = 7.4 c.y.

95+50 — Sta 363.29 — Sta 363.04 — C = 6 ft, F = 4 ft — Exc = 13.9 c.y., Emb = 5.6 c.y.

95+00 — Sta 364.37 — Sta 364.19 — C = 9 ft, F = 2 ft — Exc = 16.7 c.y., Emb = 3.7 c.y.

94+50 — Sta 364.38 — Sta 365.10 — C = 9 ft, F = 2 ft — Exc = 18.5 c.y., Emb = 3.7 c.y.

94+00 — Sta 366.05 — Sta 366.76 — C = 11 ft, F = 2 ft — Exc = 18.5 c.y., Emb = 3.7 c.y.

93+50 — Sta 366.37 — Sta 366.19 — C = 9 ft, F = 2 ft — Exc = 13.9 c.y., Emb = 2.6 c.y.

93+00 — Sta 366.83 — Sta 366.36 — C = 6 ft, F = 5 ft — Exc = 10.2 c.y., Emb = 7.4 c.y.

92+50 — Sta 366.30 — Sta 366.31 — C = 5 ft, F = 5 ft — Exc = 7.0 c.y., Emb = 7.6 c.y.

92+16.28 S.T. — Sta 366.01 — Sta 366.17 — C = 3 ft, F = 4 ft — Exc = 1.2 c.y., Emb = 8.8 c.y.

102+00 — Sta 326.57 — Sta 326.57 — C = 8 ft, F = 8 ft — Exc = 7.4 c.y., Emb = 33.3 c.y.

101+50 — Sta 330.26 — Sta 330.86 — C = 0, F = 28 ft — Exc = 0, Emb = 40.7 c.y.

101+00 — Sta 334.20 — Sta 334.31 — C = 0, F = 16 ft — Exc = 0, Emb = 28.9 c.y.

100+50 — Sta 337.50 — Sta 338.14 — C = 0, F = 12 ft — Exc = 1.9 c.y., Emb = 17.6 c.y.

100+00 — Sta 341.65 — Sta 341.72 — C = 2 ft, F = 7 ft — Exc = 3.7 c.y., Emb = 16.7 c.y.

99+50 — Sta 345.10 — Sta 345.07 — C = 2 ft, F = 11 ft — Exc = 13.0 c.y., Emb = 16.7 c.y.

99+00 — Sta 348.46 — Sta 348.16 — C = 12 ft, F = 7 ft — Exc = 33.6 c.y., Emb = 11.1 c.y.

98+50 — Sta 351.46 — Sta 351.02 — C = 21 ft, F = 5 ft — Exc = 31.1 c.y., Emb = 7.4 c.y.

98+00 — Sta 354.15 — Sta 353.63 — C = 13 ft, F = 3 ft — Exc = 25.9 c.y., Emb = 2.6 c.y.

97+50 — Sta 356.37 — Sta 356.00 — C = 16 ft, F = 2 ft — Exc = 17.6 c.y., Emb = 12.0 c.y.

97+00 — Sta 358.22 — Sta 358.12 — C = 3 ft, F = 11 ft — Exc = 5.6 c.y., Emb = 18.7 c.y.

107+50 — Sta 514.17 — Sta 514.08 — C = 8 ft, F = 6 ft — Exc = 8.3 c.y., Emb = 10.2 c.y.

107+00 — Sta 512.22 — Sta 512.30 — C = 1 ft, F = 5 ft — Exc = 2.8 c.y., Emb = 7.4 c.y.

106+50 — Sta 510.62 — Sta 510.90 — C = 2 ft, F = 3 ft — Exc = 4.6 c.y., Emb = 6.5 c.y.

106+00 — Sta 508.73 — Sta 509.86 — C = 3 ft, F = 4 ft — Exc = 7.4 c.y., Emb = 7.4 c.y.

105+50 — Sta 505.15 — Sta 509.19 — C = 5 ft, F = 4 ft — Exc = 13.9 c.y., Emb = 7.4 c.y.

End of Bridge Sta 106+82

Beg. of Bridge Sta 104+35

105+00 — Sta 503.14 — Sta 508.89 — C = 10 ft, F = 4 ft

104+50 — Sta 515.15 — Sta 514.86 — C = 15 ft, F = 4 ft — Exc = 32.4 c.y., Emb = 20.2 c.y.

104+00 — Sta 517.45 — Sta 517.38 — C = 17 ft, F = 16 ft — Exc = 38.0 c.y., Emb = 21.3 c.y.

103+50 — Sta 520.55 — Sta 520.07 — C = 24 ft, F = 7 ft — Exc = 33.3 c.y., Emb = 18.9 c.y.

103+00 — Sta 523.36 — Sta 523.19 — C = 12 ft, F = 8 ft — Exc = 18.5 c.y., Emb = 14.8 c.y.

113+50 — Sta 538.18 — Sta 538.63 — C = 3 ft, F = 8 ft — Exc = 2.8 c.y., Emb = 29.6 c.y.

113+00 — Sta 535.17 — Sta 535.45 — C = 0, F = 24 ft — Exc = 0, Emb = 45.4 c.y.

112+50 — Sta 531.50 — Sta 532.00 — C = 0, F = 25 ft — Exc = 0.9 c.y., Emb = 33.3 c.y.

112+00 — Sta 528.34 — Sta 528.54 — C = 1 ft, F = 11 ft — Exc = 3.7 c.y., Emb = 15.7 c.y.

111+50 — Sta 524.85 — Sta 524.88 — C = 3 ft, F = 6 ft — Exc = 2.8 c.y., Emb = 16.7 c.y.

111+00 — Sta 521.73 — Sta 521.62 — C = 0, F = 12 ft — Exc = 1.9 c.y., Emb = 16.7 c.y.

110+50 — Sta 518.84 — Sta 518.73 — C = 2 ft, F = 6 ft — Exc = 2.8 c.y., Emb = 11.1 c.y.

110+00 — Sta 516.28 — Sta 516.27 — C = 1 ft, F = 6 ft — Exc = 8.3 c.y., Emb = 11.1 c.y.

PLATE 3 - CROSS SECTION U.S.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 SIZE 18½ X 24

$221.19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F32 (2)	1946	20	27

FINAL SURVEY — SURVEYED / COMPUTED / TEMPLATE / AREAS / AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

ORIGINAL SURVEY — SURVEYED / COMPUTED / TEMPLATE / AREAS / AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

Aug. 20, 1946

564.12 — 564.11 — C = 1 ϕ, F = 13 ϕ — 118+00 — Exc. = 1.9 C.Y. — Emb. = 17.6 C.Y.

561.90 — 561.82 — C = 1 ϕ, F = 6 ϕ — 117+50 — Exc. = 3.7 C.Y. — Emb. = 11.1 C.Y.

559.40 — 559.39 — C = 3 ϕ, F = 6 ϕ — 117+00 — Exc. = 0.3 C.Y. — Emb. = 12.0 C.Y.

557.12 — 556.84 — C = 7 ϕ, F = 7 ϕ — 116+50 — Exc. = 10.2 C.Y. — Emb. = 12.0 C.Y.

554.28 — 554.14 — C = 4 ϕ, F = 6 ϕ — 116+00 — Exc. = 0.3 C.Y. — Emb. = 9.3 C.Y.

551.47 — 551.30 — C = 6 ϕ, F = 4 ϕ — 115+50 — Exc. = 5.6 C.Y. — Emb. = 12.0 C.Y.

548.43 — 548.34 — C = 0, F = 9 ϕ — 115+00 — Exc. = 0 — Emb. = 23.2 C.Y.

545.14 — 545.24 — C = 0, F = 16 ϕ — 114+50 — Exc. = 0 — Emb. = 35.2 C.Y.

541.35 — 542.10 — C = 0, F = 22 ϕ — 114+00 — Exc. = 2.8 C.Y. — Emb. = 27.8 C.Y.

573.05 — 573.67 — C = 7 ϕ, F = 8 ϕ — 122+50 — Exc. = 15.7 C.Y. — Emb. = 11.1 C.Y.

577.86 — 577.60 — C = 10 ϕ, F = 4 ϕ — 122+00 — Exc. = 16.7 C.Y. — Emb. = 0.3 C.Y.

576.66 — 576.38 — C = 8 ϕ, F = 6 ϕ — 121+50 — Exc. = 15.7 C.Y. — Emb. = 11.1 C.Y.

575.15 — 575.03 — C = 9 ϕ, F = 6 ϕ — 121+00 — Exc. = 13.0 C.Y. — Emb. = 12.0 C.Y.

573.65 — 573.55 — C = 5 ϕ, F = 7 ϕ — 120+50 — Exc. = 11.1 C.Y. — Emb. = 11.1 C.Y.

572.17 — 571.93 — C = 7 ϕ, F = 5 ϕ — 120+00 — Exc. = 12.0 C.Y. — Emb. = 10.2 C.Y.

570.44 — 570.18 — C = 6 ϕ, F = 6 ϕ — 119+50 — Exc. = 10.2 C.Y. — Emb. = 13.9 C.Y.

568.39 — 568.39 — C = 5 ϕ, F = 9 ϕ — 119+00 — Exc. = 7.4 C.Y. — Emb. = 25.0 C.Y.

566.26 — 566.76 — C = 3 ϕ, F = 18 ϕ — 118+50 — Exc. = 3.7 C.Y. — Emb. = 28.7 C.Y.

586.65 — 586.36 — C = 8 ϕ, F = 5 ϕ — 127+50 — Exc. = 13.0 C.Y. — Emb. = 12.0 C.Y.

586.22 — 585.62 — C = 7 ϕ, F = 8 ϕ — 127+00 — Exc. = 13.9 C.Y. — Emb. = 15.7 C.Y.

585.10 — 584.87 — C = 8 ϕ, F = 9 ϕ — 126+50 — Exc. = 14.8 C.Y. — Emb. = 16.7 C.Y.

584.40 — 584.13 — C = 8 ϕ, F = 9 ϕ — 126+00 — Exc. = 12.0 C.Y. — Emb. = 16.7 C.Y.

583.61 — 583.39 — C = 5 ϕ, F = 9 ϕ — 125+50 — Exc. = 14.8 C.Y. — Emb. = 13.0 C.Y.

582.83 — 582.65 — C = 11 ϕ, F = 5 ϕ — 125+00 — Exc. = 32.4 C.Y. — Emb. = 4.6 C.Y.

582.12 — 581.90 — C = 24 ϕ, F = 0 — 124+50 — Exc. = 25.0 C.Y. — Emb. = 10.2 C.Y.

581.12 — 581.16 — C = 3 ϕ, F = 11 ϕ — 124+00 — Exc. = 6.5 C.Y. — Emb. = 24.1 C.Y.

580.44 — 580.42 — C = 4 ϕ, F = 15 ϕ — 123+50 — Exc. = 10.2 C.Y. — Emb. = 21.3 C.Y.

579.88 — 579.62 — C = 7 ϕ, F = 8 ϕ — 123+00 — Exc. = 13.0 C.Y. — Emb. = 14.8 C.Y.

593.60 — 592.26 — C = 0, F = 12 ϕ — 131+47.82 — Exc. = 0 — Emb. = 9.6 C.Y.

593.40 — 591.96 — C = 0, F = 14 ϕ — 131+27.82 — Exc. = 0 — Emb. = 9.6 C.Y.

593.17 — 591.67 — C = 0, F = 12 ϕ — 131+07.82 — Exc. = 0.7 C.Y. — Emb. = 6.3 C.Y.

593.02 — 591.37 — C = 2 ϕ, F = 5 ϕ — 130+87.82 T.S. — Exc. = 2.8 C.Y. — Emb. = 5.6 C.Y.

592.66 — 590.81 — C = 2 ϕ, F = 3 ϕ — 130+50 — Exc. = 3.7 C.Y. — Emb. = 7.4 C.Y.

592.01 — 590.07 — C = 2 ϕ, F = 5 ϕ — 130+00 — Exc. = 6.5 C.Y. — Emb. = 7.4 C.Y.

591.32 — 589.33 — C = 5 ϕ, F = 3 ϕ — 129+50 — Exc. = 7.4 C.Y. — Emb. = 10.2 C.Y.

590.61 — 588.59 — C = 3 ϕ, F = 8 ϕ — 129+00 — Exc. = 6.5 C.Y. — Emb. = 12.0 C.Y.

589.86 — 587.84 — C = 4 ϕ, F = 5 ϕ — 128+50 — Exc. = 6.5 C.Y. — Emb. = 11.1 C.Y.

589.10 — 587.10 — C = 3 ϕ, F = 7 ϕ — 128+00 — Exc. = 10.2 C.Y. — Emb. = 11.1 C.Y.

595.23 — 593.91.26 — C = 1 ϕ, F = 15 ϕ — 133+50 — Exc. = 1.9 C.Y. — Emb. = 27.8 C.Y.

594.65 — 594.52 — C = 1 ϕ, F = 15 ϕ — 133+00 — Exc. = 0.2 C.Y. — Emb. = 7.0 C.Y.

594.10 — 594.36 — C = 0, F = 16 ϕ — 132+87.82 S.C. — Exc. = 0.4 C.Y. — Emb. = 13.8 C.Y.

593.86 — 594.04 — C = 1 ϕ, F = 19 ϕ — 132+67.82 — Exc. = 1.5 C.Y. — Emb. = 14.1 C.Y.

593.59 — 593.75 — C = 3 ϕ, F = 19 ϕ — 132+47.82 — Exc. = 1.1 C.Y. — Emb. = 14.4 C.Y.

593.20 — 593.45 — C = 0, F = 20 ϕ — 132+27.82 — Exc. = 0 — Emb. = 14.4 C.Y.

592.83 — 593.15 — C = 0, F = 19 ϕ — 132+07.82 — Exc. = 0.4 C.Y. — Emb. = 10.2 C.Y.

592.43 — 592.86 — C = 1 ϕ, F = 14 ϕ — 131+87.82 — Exc. = 0.4 C.Y. — Emb. = 14.8 C.Y.

592.06 — 592.56 — C = 0, F = 26 ϕ — 131+67.82 — Exc. = 0 — Emb. = 14.1 C.Y.

PLATE 3 - CROSS SECTION - U.S.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 348-3 MADE IN U.S.A. 49208-3

5221.20

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F32(2)	1946	21	27

FINAL SURVEY — SURVEYED, PLOTTED, TRACED, NOTE BOOK, NO., AREAS, AREAS CHECKED, BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TRACED, NOTE BOOK, NO., AREAS, AREAS CHECKED, BY, DATE

Aug 20, 1946

538.47 / 598.73 — 136+35.03
C = 0
F = 15 ☐
Exc. = 0
Emb. = 11.1 C.Y.

538.44 / 598.55 — 136+15.03
C = 0
F = 15 ☐
Exc. = 0
Emb. = 10.7 C.Y.

538.29 / 598.36 — 135+95.03
C = 0
F = 14 ☐
Exc. = 0.7 C.Y.
Emb. = 0.3 C.Y.

538.20 / 598.17 — 135+75.03
C = 2 ☐
F = 11 ☐
Exc. = 2.6 C.Y.
Emb. = 7.4 C.Y.

538.10 / 597.97 — 135+55.03
C = 5 ☐
F = 9 ☐
Exc. = 5.2 C.Y.
Emb. = 5.6 C.Y.

537.98 / 597.76 — 135+35.03
C = 9 ☐
F = 6 ☐
Exc. = 7.0 C.Y.
Emb. = 4.4 C.Y.

537.82 / 597.53 — 135+15.03 C.S.
C = 10 ☐
F = 6 ☐
Exc. = 5.3 C.Y.
Emb. = 4.5 C.Y.

537.61 / 597.36 — 135+00
C = 9 ☐
F = 10 ☐
Exc. = 10.2 C.Y.
Emb. = 19.4 C.Y.

536.87 / 596.71 — 134+50
C = 2 ☐
F = 11 ☐
Exc. = 1.9 C.Y.
Emb. = 20.4 C.Y.

536.01 / 596.01 — 134+00
C = 0
F = 11 ☐
Exc. = 0.9 C.Y.
Emb. = 24.1 C.Y.

600.70 / 600.60 — 138+41.46
C = 0
F = 13 ☐
Exc. = 0
Emb. = 10.0 C.Y.

600.53 / 600.42 — 138+21.46
C = 0
F = 14 ☐
Exc. = 0
Emb. = 10.4 C.Y.

600.33 / 600.24 — 138+01.46
C = 0
F = 14 ☐
Exc. = 0
Emb. = 0.6 C.Y.

600.20 / 600.06 — 137+81.46
C = 0
F = 12 ☐
Exc. = 0
Emb. = 8.5 C.Y.

599.98 / 599.87 — 137+61.46
C = 0
F = 11 ☐
Exc. = 0
Emb. = 11.1 C.Y.

599.81 / 599.69 — 137+41.46
C = 0
F = 19 ☐
Exc. = 0
Emb. = 14.4 C.Y.

599.32 / 599.51 — 137+21.46 T.S.
C = 0
F = 20 ☐
Exc. = 0
Emb. = 19.5 C.Y.

598.96 / 599.29 — 136+95.03
C = 0
F = 20 ☐
Exc. = 0
Emb. = 15.0 C.Y.

598.81 / 599.09 — 136+75.03
C = 0
F = 23 ☐
Exc. = 0
Emb. = 14.4 C.Y.

598.70 / 598.91 — 136+55.03
C = 0
F = 16 ☐
Exc. = 0
Emb. = 11.5 C.Y.

602.65 / 602.79 — 140+83
C = 4 ☐
F = 12 ☐
Exc. = 3.3 C.Y.
Emb. = 0.3 C.Y.

602.30 / 602.61 — 140+63
C = 5 ☐
F = 13 ☐
Exc. = 3.0 C.Y.
Emb. = 10.7 C.Y.

602.14 / 602.43 — 140+43
C = 3 ☐
F = 16 ☐
Exc. = 1.1 C.Y.
Emb. = 11.5 C.Y.

601.98 / 602.25 — 140+23 C.S.
C = 0
F = 15 ☐
Exc. = 1.3 C.Y.
Emb. = 11.5 C.Y.

601.85 / 602.04 — 140+00
C = 3 ☐
F = 12 ☐
Exc. = 8.3 C.Y.
Emb. = 21.3 C.Y.

601.62 / 601.58 — 139+50
C = 6 ☐
F = 11 ☐
Exc. = 7.4 C.Y.
Emb. = 12.2 C.Y.

601.42 / 601.33 — 139+21.46 S.C.
C = 8 ☐
F = 12 ☐
Exc. = 5.6 C.Y.
Emb. = 8.2 C.Y.

601.28 / 601.14 — 139+01.46
C = 7 ☐
F = 10 ☐
Exc. = 3.7 C.Y.
Emb. = 7.8 C.Y.

601.05 / 600.96 — 138+81.46
C = 3 ☐
F = 11 ☐
Exc. = 2.2 C.Y.
Emb. = 7.4 C.Y.

600.86 / 600.78 — 138+61.46
C = 3 ☐
F = 9 ☐
Exc. = 1.1 C.Y.
Emb. = 8.3 C.Y.

End of First Unit

604.66 / 605.00 — 143+26.38
C = 0
F = 7 ☐
Exc. = 1.0 C.Y.
Emb. = 5.5 C.Y.

604.46 / 604.76 — 143+00
C = 2 ☐
F = 4 ☐
Exc. = 3.7 C.Y.
Emb. = 8.3 C.Y.

604.27 / 604.30 — 142+50
C = 2 ☐
F = 5 ☐
Exc. = 1.5 C.Y.
Emb. = 6.0 C.Y.

603.90 / 604.06 — 142+23 S.T.
C = 1 ☐
F = 7 ☐
Exc. = 0.4 C.Y.
Emb. = 5.6 C.Y.

603.74 / 603.88 — 142+03
C = 1 ☐
F = 8 ☐
Exc. = 1.1 C.Y.
Emb. = 7.8 C.Y.

603.57 / 603.70 — 141+83
C = 2 ☐
F = 13 ☐
Exc. = 2.6 C.Y.
Emb. = 8.2 C.Y.

603.54 / 603.52 — 141+63
C = 5 ☐
F = 9 ☐
Exc. = 5.6 C.Y.
Emb. = 4.4 C.Y.

603.51 / 603.33 — 141+43
C = 10 ☐
F = 3 ☐
Exc. = 3.7 C.Y.
Emb. = 3.2 C.Y.

603.20 / 603.15 — 141+23
C = 0
F = 11 ☐
Exc. = 0.7 C.Y.
Emb. = 6.7 C.Y.

602.91 / 602.97 — 141+03
C = 2 ☐
F = 7 ☐
Exc. = 2.2 C.Y.
Emb. = 7.0 C.Y.

PLATE 3 - CROSS SECTION C. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 62020-2

5221.21

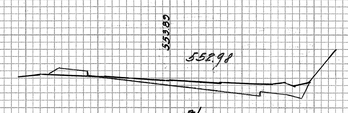
21

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F32(2)	1946	22	27

FINAL SURVEY — SURVEYED, COMPUTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

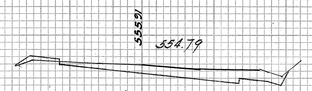
ORIGINAL SURVEY — SURVEYED, COMPUTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

Aug. 20, 1946



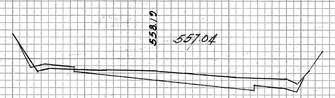
Exc = 60.4 C.Y.
Emb = 7.4 "

C = 28 #
F = 5 #



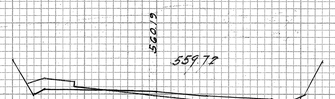
Exc = 65.7 C.Y.
Emb = 5.6 "

C = 37 #
F = 3 #



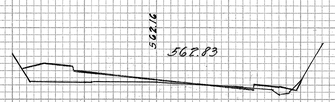
Exc = 41.7 C.Y.
Emb = 11.1 "

C = 34 #
F = 3 #



Exc = 11.1 C.Y.
Emb = 33.3

C = 11 #
F = 9 #



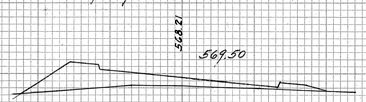
Exc = 2.8 C.Y.
Emb = 72.2 C.Y.

C = 1 #
F = 27 #



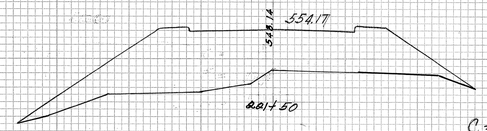
Exc. = 1.9 C.Y.
Emb = 109.7 C.Y.

C = 2 #
F = 51 #



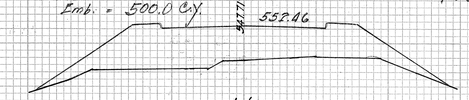
C = 0
F = 61 #

Beg. of Second Unit



Exc. = 0
Emb. = 500.0 C.Y.

C = 0
F = 328 #



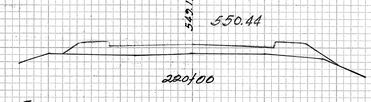
Exc. = 0
Emb = 292.6 C.Y.

C = 0
F = 212 #



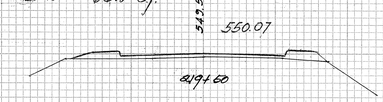
Exc = 0
Emb = 141.7 C.Y.

C = 0
F = 104 #



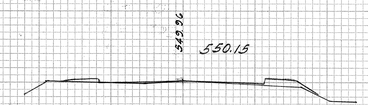
Exc. = 0
Emb = 64.8 C.Y.

C = 0
F = 49 #



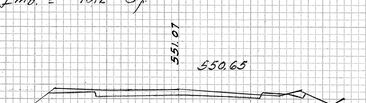
Exc. 0
Emb 19.4 C.Y.

C = 0
F = 21 #



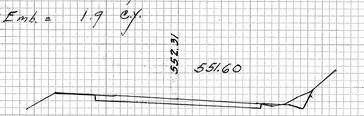
Exc. = 18.5 C.Y.
Emb. = 10.2 C.Y.

C = 0
F = 10 #



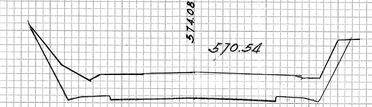
Exc. = 38.0 C.Y.
Emb = 1.9 C.Y.

C = 20 #
F = 1 #



Exc. = 43.5 C.Y.
Emb = 5.6 C.Y.

C = 21 #
F = 1 #



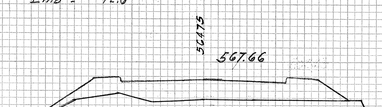
Exc = 138.0 C.Y.
Emb = 3.7 "

C = 138 #
F = 0



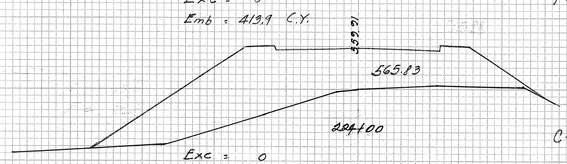
Exc = 10.2 C.Y.
Emb = 92.6 "

C = 11 #
F = 4 #



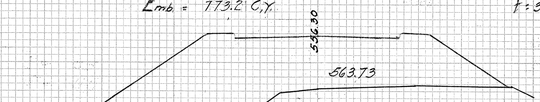
Exc = 0
Emb = 413.9 C.Y.

C = 0
F = 96 #



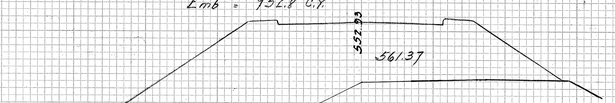
Exc = 0
Emb = 773.2 C.Y.

C = 0
F = 351 #



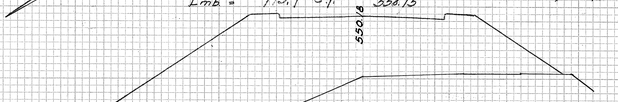
Exc. = 0
Emb = 952.8 C.Y.

C = 0
F = 484 #



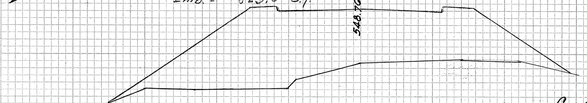
Exc. = 0
Emb = 975.9 C.Y.

C = 0
F = 545 #



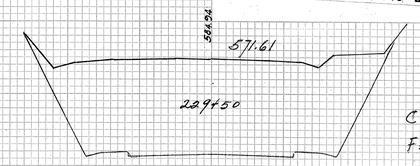
Exc. = 0
Emb. = 875.0 C.Y.

C = 0
F = 509 #



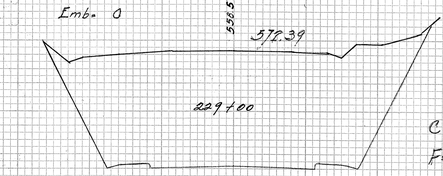
Exc. = 0
Emb. = 657.4 C.Y.

C = 0
F = 382 #



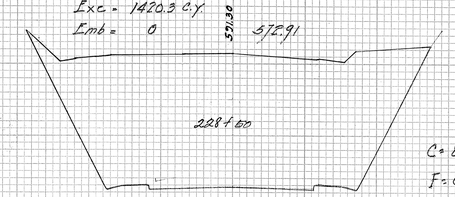
Exc = 1158.3 C.Y.
Emb. 0

C = 547 #
F = 0



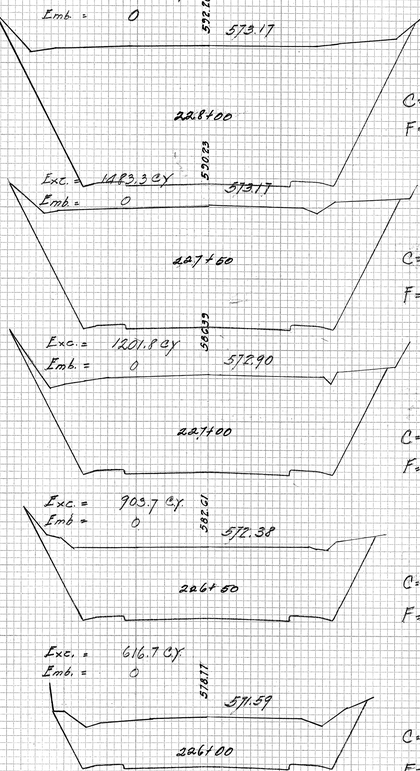
Exc = 1420.3 C.Y.
Emb = 0

C = 704 #
F = 0



Exc. = 1569.4 C.Y.
Emb. = 0

C = 830 #
F = 0



Exc. = 1569.4 C.Y.
Emb. = 0

C = 865 #
F = 0

Exc. = 1283.3 C.Y.
Emb. = 0

C = 737 #
F = 0

Exc. = 1201.8 C.Y.
Emb. = 0

C = 561 #
F = 0

Exc. = 903.7 C.Y.
Emb. = 0

C = 415 #
F = 0

Exc. = 616.7 C.Y.
Emb. = 0

C = 261 #
F = 0

Exc. = 369.4 C.Y.
Emb. = 0

PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.
K & E CO. No. 345-3 MADE IN U.S.A. 42036-2

5221.22

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F 32(2)	1946	23	27

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — FIELD BOOK — AREAS CHECKED — BY — DATE — V.E.

ORIGINAL SURVEY — SURVEYED — PLOTTED — TEMPLATE — FIELD BOOK — AREAS CHECKED — BY — DATE

Aug. 20, 1946

555.03 √77.36
233+50
C = 0
F = 65 #
Exc = 0
Emb = 99.1 cy

558.13 √79.17
233+00
C = 0
F = 42 #
Exc = 0
Emb = 67.6 cy.

560.66 √61.42
232+50
C = 0
F = 31 #
Exc = 20.2 cy.
Emb = 78.7 cy.

564.42 563.77
232+00
C = 22 #
F = 0
Exc = 114.8 cy.
Emb = 0

568.89 √65.86
231+50
C = 102 #
F = 0
Exc = 366.7 cy.
Emb = 0

573.08 567.69
231+00
C = 194 #
F = 0
Exc = 456.8 cy.
Emb = 0

577.08 569.26
230+50
C = 299 #
F = 0
Exc = 663.9 cy.
Emb = 0

580.30 570.56
230+00
C = 418 #
F = 0
Exc = 893.5 c.y
Emb = 0

562.02 √61.76
238+00
C = 14 #
F = 0
Exc = 26.9
Emb = 0.9 cy.

533.84 √59.22
237+50
C = 15 #
F = 1 #
Exc = 38.0 cy
Emb = 0.9 cy.

537.35 √57.41
237+00
C = 26 #
F = 0
Exc = 28.7 cy.
Emb = 1.9 cy.

540.21 √56.04
236+50
C = 5 #
F = 2 #
Exc = 4.6 cy.
Emb = 23.2 cy.

544.44 555.13
236+00
C = 0
F = 23 #
Exc = 0
Emb = 69.4 cy.

549.18 √54.67
235+50
C = 0
F = 52 #
Exc = 0
Emb = 109.3 cy

552.88 √54.66
235+00
C = 0
F = 66 #
Exc = 0
Emb = 127.8 cy.

555.10 √55.11
234+50
C = 0
F = 72 #
Exc = 0
Emb = 116.7 cy.

558.45 √56.01
234+00
C = 0
F = 54 #
Exc = 0
Emb = 110.2 cy.

380.20 √79.66
242+50
C = 18 #
F = 0
Exc = 38.0 cy
Emb = 0.9 cy

570.26 √77.61
242+00
C = 23 #
F = 1 #
Exc = 31.5 cy
Emb = 7.5 cy

573.90 √75.57
241+50
C = 11 #
F = 2 #
Exc = 17.6 cy
Emb = 2.8 cy

576.64 √73.53
241+00
C = 8 #
F = 1 #
Exc = 14.6 cy
Emb = 1.9 cy

577.63 √71.48
240+50
C = 24 #
F = 1 #
Exc = 24.8 cy
Emb = 6.5

579.76 √69.44
240+00
C = 3 #
F = 6 #
Exc = 11.1 cy
Emb = 10.7 cy

582.86 √67.40
239+50
C = 9 #
F = 5 #
Exc = 17.6 cy
Emb = 7.4 cy

584.93 √65.35
239+00
C = 10 #
F = 3 #
Exc = 20.7 cy
Emb = 3.7 cy

563.34 √63.31
238+50
C = 12 #
F = 1 #
Exc = 34.8 cy
Emb = 0.9

525.20 √79.65
247+00
C = 15 #
F = 1 #
Exc = 24.1 cy.
Emb = 2.8 cy.

529.38 √93.65
246+50
C = 11 #
F = 2 #
Exc = 18.6 cy.
Emb = 5.6 cy.

532.79 √92.46
246+00
C = 9 #
F = 4 #
Exc = 14.8 cy.
Emb = 6.5 cy.

535.28 √91.07
245+50
C = 7 #
F = 3 #
Exc = 7.4 cy.
Emb = 6.5 cy.

539.52 √89.50
245+00
C = 1 #
F = 4 #
Exc = 10.2 cy.
Emb = 3.7 cy.

587.79 √87.74
244+50
C = 10 #
F = 0
Exc = 23.2 cy.
Emb = 0

586.15 √85.79
244+00
C = 14 #
F = 0
Exc = 25.0 cy.
Emb = 0.9 cy.

584.08 √83.75
243+50
C = 13 #
F = 1 #
Exc = 25.0 cy.
Emb = 0.9 cy.

581.25 √81.71
243+00
C = 14 #
F = 0
Exc = 29.6 cy.
Emb = 0

PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 42220-0

5221.23

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F32(2)	1946	24	27

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, NOTE BOOK, NO.____, AREAS CHECKED, BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, NOTE BOOK, NO.____, AREAS CHECKED, BY, DATE

Aug. 20, 1946

593.22 594.87
252+00
Exc. = 25.7 c.y. C = 12 #
Emb = 2.8 c.y. F = 3 #

596.18 595.67
251+50
Exc. = 42.6 c.y. C = 19 #
Emb = 0 F = 0

596.01 596.25
251+00
Exc = 48.2 c.y. C = 27 #
Emb = 0 F = 0

597.42 596.66
250+50
Exc = 50.0 c.y. C = 25 #
Emb = 0 F = 0

597.01 596.89
250+00
Exc. = 57.4 c.y. C = 29 #
Emb = 0 F = 0

597.84 596.93
249+50
Exc. = 60.2 c.y. C = 33 #
Emb = 0 F = 0

597.63 596.79
249+00
Exc. = 59.3 c.y. C = 32 #
Emb = 0 F = 0

597.54 596.54
248+50
Exc. = 51.9 c.y. C = 31 #
Emb = 0 F = 0

595.24 596.10
248+00
Exc. = 43.5 c.y. C = 25 #
Emb = 2.8 c.y. F = 0

595.34 594.47
247+50
Exc. = 34.3 c.y. C = 22 #
Emb = 3.7 c.y. F = 3 #

574.21 575.60
257+00
Exc. = 29.6 c.y. C = 16 #
Emb = 1.9 c.y. F = 1 #

573.04 578.36
256+50
Exc. = 22.2 c.y. C = 16 #
Emb = 4.6 c.y. F = 1 #

581.44 580.95
256+00
Exc. = 21.3 c.y. C = 8 #
Emb = 6.5 c.y. F = 4 #

583.03 583.34
255+50
Exc. = 28.7 c.y. C = 15 #
Emb = 4.6 c.y. F = 3 #

586.21 585.55
255+00
Exc. = 31.5 c.y. C = 16 #
Emb = 2.8 c.y. F = 2 #

588.23 587.57
254+50
Exc. = 35.2 c.y. C = 18 #
Emb = 0.9 c.y. F = 1 #

590.01 589.39
254+00
Exc. = 37.0 c.y. C = 20 #
Emb = 0 F = 0

591.13 591.04
253+50
Exc. = 28.1 c.y. C = 20 #
Emb = 0 F = 6

592.32 590.70
253+27.27
Exc. = 31.9 c.y. C = 50 #
Emb = 1.0 c.y. F = 0

593.07 592.48
253+00
Exc. = 22.2 c.y. C = 12 #
Emb = 3.7 c.y. F = 2 #

594.05 593.75
252+50
Exc. = 22.2 c.y. C = 12 #
Emb = 4.6 c.y. F = 2 #

535.43 539.00
262+00
Exc. = 34.3 c.y. C = 9 #
Emb = 9.3 c.y. F = 7 #

548.65 544.00
261+50
Exc. = 42.6 c.y. C = 28 #
Emb = 3.7 c.y. F = 3 #

547.72 547.00
261+00
Exc. = 34.3 c.y. C = 18 #
Emb = 0.9 c.y. F = 1 #

551.46 551.00
260+50
Exc. = 30.6 c.y. C = 19 #
Emb = 2.8 c.y. F = 0 #

555.51 555.00
260+00
Exc. = 26.4 c.y. C = 14 #
Emb = 8.3 c.y. F = 3 #

559.39 558.90
259+50
Exc. = 29.6 c.y. C = 8 #
Emb = 9.3 c.y. F = 6 #

563.05 562.61
259+00
Exc. = 35.2 c.y. C = 24 #
Emb = 3.7 c.y. F = 4 #

566.73 566.15
258+50
Exc. = 22.2 c.y. C = 14 #
Emb = 4.6 c.y. F = 0 #

569.26 569.48
258+00
Exc. = 17.6 c.y. C = 10 #
Emb = 10.2 c.y. F = 5 #

573.00 572.63
257+50
Exc. = 22.2 c.y. C = 9 #
Emb = 6.5 c.y. F = 6 #

511.22 511.00
265+50
Exc. = 14.8 c.y. C = 8 #
Emb = 16.7 c.y. F = 7 #

515.39 515.00
265+00
Exc. = 21.3 c.y. C = 8 #
Emb = 13.9 c.y. F = 11 #

519.55 519.00
264+50
Exc. = 33.3 c.y. C = 15 #
Emb = 5.6 c.y. F = 9 #

523.74 523.00
264+00
Exc. = 35.2 c.y. C = 21 #
Emb = 9.3 c.y. F = 2 #

527.72 527.00
263+50
Exc. = 28.7 c.y. C = 17 #
Emb = 11.8 c.y. F = 8 #

531.56 531.00
263+00
Exc. = 19.4 c.y. C = 14 #
Emb = 11.1 c.y. F = 8 #

535.74 535.00
262+50
Exc. = 14.8 c.y. C = 7 #
Emb = 10.2 c.y. F = 4 #

PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 43330-3

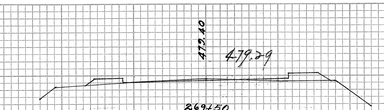
5221.24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F 32(2)	1946	25	27

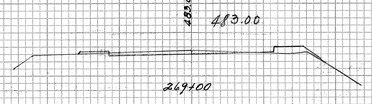
FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

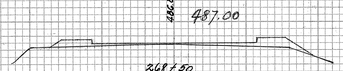
Aug. 20, 1946



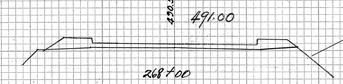
Exc. = 8.3 c.y.
Emb = 14.8 c.y.
C = 1 ft
F = 9 ft



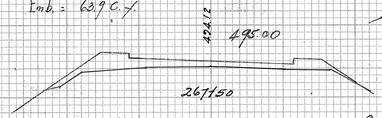
Exc. = 7.4 c.y.
Emb = 26.9 c.y.
C = 8 ft
F = 7 ft



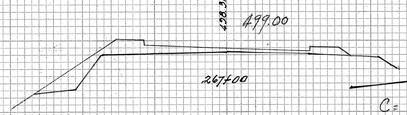
Exc. = 0
Emb = 43.5 c.y.
C = 0
F = 22 ft



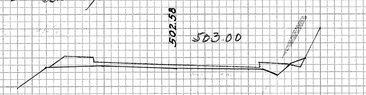
Exc. = 0
Emb = 63.9 c.y.
C = 0
F = 25



Exc. = 0
Emb = 82.4 c.y.
C = 0
F = 44 ft



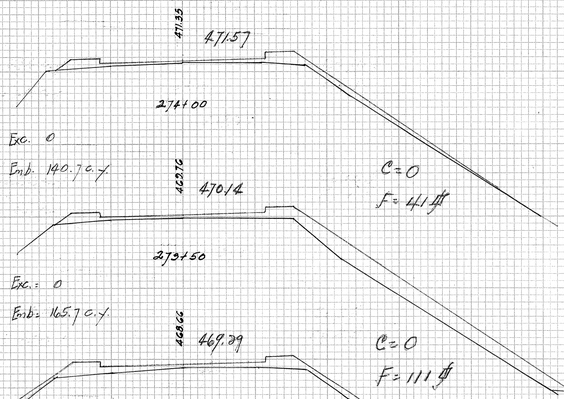
Exc. = 0.9 c.y.
Emb = 63.0 c.y.
C = 0
F = 45 ft



Exc. = 0.9 c.y.
Emb = 30.6 c.y.
C = 1 ft
F = 23 ft



Exc. = 7.4 c.y.
Emb = 15.7 c.y.
C = 0
F = 10 ft



Exc. = 0
Emb = 140.7 c.y.
C = 0
F = 41 ft

Exc. = 0
Emb = 165.7 c.y.
C = 0
F = 111 ft

Exc. = 0
Emb = 179.6 c.y.
C = 0
F = 68 ft

Exc. = 0
Emb = 281.5 c.y.
C = 0
F = 12.6 ft

Exc. = 0
Emb = 280.6 c.y.
C = 0
F = 178 ft

Exc. = 0
Emb = 195.4 c.y.
C = 0
F = 125 ft

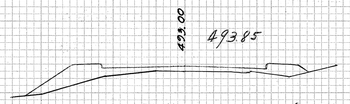
Exc. = 0
Emb = 137.8 c.y.
C = 0
F = 86 ft

Exc. = 0
Emb = 71.3 c.y.
C = 0
F = 52 ft

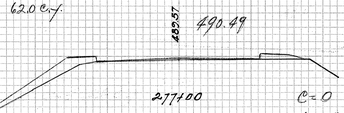
Exc. = 0.9 c.y.
Emb = 31.5 c.y.
C = 0
F = 25 ft



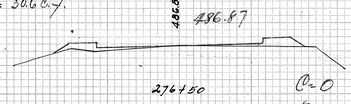
Exc. 12.9 c.y.
Emb 43.5 c.y.
C = 15 ft
F = 3 ft



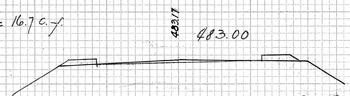
Exc. = 0
Emb = 62.0 c.y.
C = 0
F = 44 ft



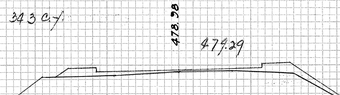
Exc. 0
Emb = 30.6 c.y.
C = 0
F = 23 ft



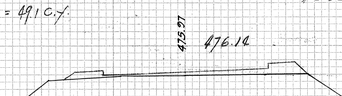
Exc. = 0
Emb = 16.7 c.y.
C = 0
F = 10 ft



Exc. = 0
Emb = 34.3 c.y.
C = 0
F = 8 ft



Exc. = 0
Emb = 49.1 c.y.
C = 0
F = 29 ft



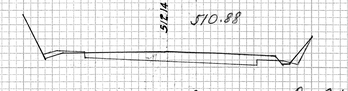
Exc. 0
Emb = 39.8 c.y.
C = 0
F = 24 ft



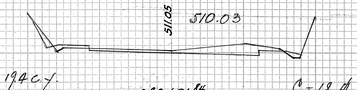
Exc. = 0
Emb = 55.6 c.y.
C = 0
F = 19 ft



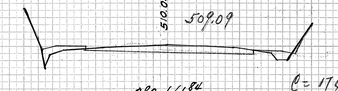
Exc. 45.6 c.y.
Emb 1.1 c.y.
C = 51 ft
F = 0



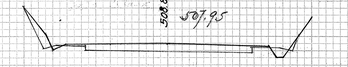
Exc. 27.2 c.y.
Emb 2.8 c.y.
C = 31 ft
F = 2 ft



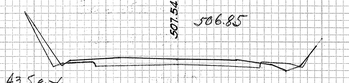
Exc. 19.2 c.y.
Emb = 5.6 c.y.
C = 18 ft
F = 3 ft



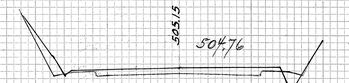
Exc. = 23.3 c.y.
Emb 5.6 c.y.
C = 17 ft
F = 7 ft



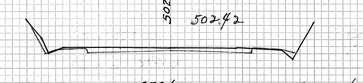
Exc. 29.5 c.y.
Emb 3.5 c.y.
C = 25 ft
F = 3 ft



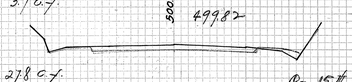
Exc. 43.5 c.y.
Emb 4.6 c.y.
C = 25 ft
F = 3 ft



Exc. 29.6 c.y.
Emb 3.7 c.y.
C = 22 ft
F = 3 ft



Exc. 24.1 c.y.
Emb 3.7 c.y.
C = 11 ft
F = 2 ft



Exc. = 27.8 c.y.
Emb 4.6 c.y.
C = 15 ft
F = 2 ft

PLATE 3 - CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 42351-3

5221.25

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F 32(2)	1946	26	27

FINAL SURVEY — SURVEYED, COMPUTED, TEMPLATE, AREAS, NOTE BOOK, NO., AREAS CHECKED, BY, DATE

ORIGINAL SURVEY — SURVEYED, COMPUTED, TEMPLATE, AREAS, NOTE BOOK, NO., AREAS CHECKED, BY, DATE

Aug 20, 1946

285+50 — 516.14 / 513.04 — Exc. = 86.1 c.y. Emb. = 1.9 c.y. — C = 36 #, F = 2 #

285+00 — 515.63 / 513.65 — Exc. = 135.2 c.y. Emb. = 0 — C = 57 #, F = 0

284+50 — 516.78 / 514.21 — Exc. = 175.0 c.y. Emb. = 0 — C = 89 #, F = 0

284+00 — 517.80 / 514.41 — Exc. = 194.4 c.y. Emb. = 0 — C = 100 #, F = 0

283+50 — 517.58 / 514.35 — Exc. = 222.1 c.y. Emb. = 0 — C = 110 #, F = 0

283+01 84 — 517.49 / 514.06 — Exc. = 139.4 c.y. Emb. = 0 — C = 139 #, F = 0

282+71 84 — 516.34 / 513.76 — Exc. = 116.7 c.y. Emb. = 0 — C = 112 #, F = 0

282+41 84 — 516.17 / 513.37 — Exc. = 98.9 c.y. Emb. = 0 — C = 98 #, F = 0

282+11 84 — 515.15 / 512.89 — Exc. = 86.7 c.y. Emb. = 0 — C = 80 #, F = 0

281+81 84 — 514.27 / 512.31 — Exc. = 70.6 c.y. Emb. = 0 — C = 76 #, F = 0

288+34 — 502.26 / 502.38 — Exc. = 10.0 c.y. Emb. = 6.7 c.y. — C = 17 #, F = 1 #

288+04 — 503.27 / 503.13 — Exc. = 0.6 c.y. Emb. = 17.2 c.y. — C = 1 #, F = 11 #

288+34 — 503.76 / 504.16 — Exc. = 10.0 c.y. Emb. = 35.0 c.y. — C = 0, F = 20 #

288+04 — 504.41 / 505.38 — Exc. = 0 Emb. = 78.9 c.y. — C = 0, F = 43 #

287+74 — 503.24 / 506.63 — Exc. = 0 Emb. = 94.4 c.y. — C = 0, F = 99 #

287+44 — 504.29 / 507.18 — Exc. = 0 Emb. = 79.4 c.y. — C = 0, F = 71 #

287+14 — 507.80 / 508.91 — Exc. = 0 c.y. Emb. = 77.8 c.y. — C = 0, F = 72 #

286+84 — 508.91 / 509.87 — Exc. = 0 Emb. = 60.0 c.y. — C = 0, F = 68 #

286+54 — 510.04 / 510.74 — Exc. = 2.2 c.y. Emb. = 26.1 c.y. — C = 0, F = 40 #

286+24 — 511.19 / 511.81 — Exc. = 2.2 c.y. Emb. = 20.0 c.y. — C = 4 #, F = 7 #

285+94 — 512.78 / 513.40 — Exc. = 28.7 c.y. Emb. = 25.5 c.y. — C = 0, F = 29 #

294+56 83 — 512.45 / 519.14 — Exc. = 17.8 c.y. Emb. = 5.6 c.y. — C = 14 #, F = 3 #

294+26 84 — 517.17 / 516.90 — Exc. = 15.5 c.y. Emb. = 8.9 c.y. — C = 18 #, F = 7 #

294+00 — 515.37 / 514.90 — Exc. = 35.0 c.y. Emb. = 8.3 c.y. — C = 16 #, F = 6 #

293+50 — 511.56 / 511.47 — Exc. = 23.2 c.y. Emb. = 7.4 c.y. — C = 11 #, F = 3 #

293+00 — 503.07 / 508.41 — Exc. = 35.2 c.y. Emb. = 7.4 c.y. — C = 14 #, F = 5 #

292+50 — 505.35 / 505.90 — Exc. = 45.4 c.y. Emb. = 8.3 c.y. — C = 24 #, F = 3 #

292+00 — 504.17 / 503.87 — Exc. = 2.7 c.y. Emb. = 12.4 c.y. {End of Br. Sta. 2911+75.33 / Beg. of Br. Sta. 2894+67} — C = 25 #, F = 6 #

289+54 34 — 501.71 / 501.15 — Exc. = 11.4 c.y. Emb. = 2.7 c.y. — C = 14 #, F = 6.5 #

289+24 34 — 502.63 / 501.60 — Exc. = 23.9 c.y. Emb. = 36.1 c.y. — C = 29 #, F = 0

288+94 34 — 505.28 / 505.38 — Exc. = 25.6 c.y. Emb. = 0.6 c.y. — C = 0, F = 29 #

297+26 84 — 523.11 / 537.67 — Exc. = 5.0 c.y. Emb. = 20.0 c.y. — C = 6 #, F = 14 #

296+96 84 — 525.22 / 535.84 — Exc. = 3.9 c.y. Emb. = 26.1 c.y. — C = 3 #, F = 22 #

296+66 84 — 533.32 / 533.94 — Exc. = 3.9 c.y. Emb. = 20.0 c.y. — C = 4 #, F = 25 #

296+36 84 — 531.26 / 531.99 — Exc. = 2.2 c.y. Emb. = 11.7 c.y. — C = 3 #, F = 11 #

296+06 84 — 529.63 / 529.99 — Exc. = 0.6 c.y. Emb. = 11.1 c.y. — C = 1 #, F = 10 #

295+76 84 — 527.95 / 527.97 — Exc. = 6.0 c.y. Emb. = 10.0 c.y. — C = 1 #, F = 10 #

295+46 84 — 526.12 / 525.60 — Exc. = 7.8 c.y. Emb. = 10.0 c.y. — C = 8 #, F = 8 #

295+16 84 — 523.88 / 528.67 — Exc. = 5.6 c.y. Emb. = 11.7 c.y. — C = 6 #, F = 10 #

294+86 84 — 521.72 / 531.38 — Exc. = 15.6 c.y. Emb. = 7.8 c.y. — C = 4 #, F = 11 #

PLATE 3 - CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 42333-3

5221.26

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F 32(2)	1946	27	27

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, PROFILE, AREAS CHECKED. NOTE BOOK NO. ____ BY ____ DATE ____

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED. NOTE BOOK NO. ____ BY ____ DATE ____

Aug. 20, 1946

538.42 — √57.45
301+50 — C = 17 #, F = 6 #
Exc. = 38.9 Cu. Yd.
Emb. = 6.3 Cu. Yd.

556.72 — √55.71
301+00 — C = 25 #, F = 1 #
Exc. = 41.7 Cu. Yd.
Emb. = 6.5 Cu. Yd.

534.32 — √53.81
300+50 — C = 20 #, F = 6 #
Exc. = 33.3 Cu. Yd.
Emb. = 9.3 Cu. Yd.

532.54 — √51.74
300+00 — C = 16 #, F = 4 #
Exc. = 40.7 Cu. Yd.
Emb. = 6.5 Cu. Yd.

530.42 — √49.57
299+50 — C = 28 #, F = 3 #
Exc. = 40.7 Cu. Yd.
Emb. = 7.4 Cu. Yd.

547.94 — √47.75
299+00 — C = 16 #, F = 5 #
Exc. = 42.6 Cu. Yd.
Emb. = 7.4 Cu. Yd.

545.28 — √44.60
298+50 — C = 30 #, F = 3 #
Exc. = 38.9 Cu. Yd.
Emb. = 10.2 Cu. Yd.

542.22 — √41.90
298+00 — C = 12 #, F = 8 #
Exc. = 15.7 Cu. Yd.
Emb. = 18.5 Cu. Yd.

538.81 — √39.04
297+50 — C = 5 #, F = 12 #
Exc. = 4.7 Cu. Yd.
Emb. = 15.4 Cu. Yd.

566.55 — √65.97
306+00 — C = 16 #, F = 10 #
Exc. = 26.9 Cu. Yd.
Emb. = 15.7 Cu. Yd.

566.15 — √65.67
305+50 — C = 13 #, F = 7 #
Exc. = 20.4 Cu. Yd.
Emb. = 13.9 Cu. Yd.

565.74 — √65.20
305+00 — C = 9 #, F = 8 #
Exc. = 22.2 Cu. Yd.
Emb. = 12.0 Cu. Yd.

565.31 — √66.76
304+50 — C = 15 #, F = 5 #
Exc. = 21.3 Cu. Yd.
Emb. = 16.7 Cu. Yd.

564.00 — √63.78
304+00 — C = 8 #, F = 13 #
Exc. = 14.8 Cu. Yd.
Emb. = 19.4 Cu. Yd.

563.06 — √62.84
303+50 — C = 8 #, F = 8 #
Exc. = 24.1 Cu. Yd.
Emb. = 11.1 Cu. Yd.

562.58 — √61.77
303+00 — C = 18 #, F = 4 #
Exc. = 37.0 Cu. Yd.
Emb. = 4.6 Cu. Yd.

562.13 — √60.46
302+50 — C = 22 #, F = 1 #
Exc. = 32.4 Cu. Yd.
Emb. = 3.7 Cu. Yd.

559.80 — √57.04
302+00 — C = 17 #, F = 3 #
Exc. = 31.5 Cu. Yd.
Emb. = 8.3 Cu. Yd.

562.61 — √60.57
310+00 — C = 62 #, F = 0 #
Exc. = 110.2 Cu. Yd.
Emb. = 0

562.61 — √61.88
309+50 — C = 57 #, F = 0 #
Exc. = 81.4 C.Y.
Emb. = 0
Note: Equ. + 71.05 [309+71.05 = 310+06.77]

564.64 — √62.73
310+00 — C = 50 #, F = 0 #
Exc. = 100.0 Cu. Yd.
Emb. = 0

565.74 — √63.70
309+50 — C = 58 #, F = 0 #
Exc. = 102.8 Cu. Yd.
Emb. = 0

566.55 — √64.49
309+00 — C = 53 #, F = 0 #
Exc. = 77.8 Cu. Yd.
Emb. = 0.9 Cu. Yd.

566.51 — √65.14
308+50 — C = 31 #, F = 1 #
Exc. = 44.4 Cu. Yd.
Emb. = 5.6 Cu. Yd.

566.15 — √65.63
308+00 — C = 17 #, F = 5 #
Exc. = 24.1 Cu. Yd.
Emb. = 25.9 Cu. Yd.

565.38 — √65.95
307+50 — C = 9 #, F = 9 #
Exc. = 12.0 Cu. Yd.
Emb. = 23.2

566.18 — √66.17
307+00 — C = 4 #, F = 16 #
Exc. = 8.3 Cu. Yd.
Emb. = 29.3 Cu. Yd.

566.43 — √66.13
306+50 — C = 5 #, F = 9 #
Exc. = 17.4 Cu. Yd.
Emb. = 17.6 Cu. Yd.

557.85 — √37.74
315+50 — C = 14 #, F = 0
Exc. = 23.2 Cu. Yd.
Emb. = 4.6 Cu. Yd.

560.01 — √39.85
315+00 — C = 11 #, F = 5 #
Exc. = 10.2 Cu. Yd.
Emb. = 29.2 Cu. Yd.

562.18 — √42.68
314+50 — C = 0, F = 20 #
Exc. = 16.2 Cu. Yd.
Emb. = 29.2 Cu. Yd.

565.25 — √44.81
314+00 — C = 11 #, F = 4 #
Exc. = 38.0 Cu. Yd.
Emb. = 4.6 Cu. Yd.

558.36 — √47.33
313+50 — C = 30 #, F = 1 #
Exc. = 68.5 Cu. Yd.
Emb. = 0.9 Cu. Yd.

559.34 — √49.70
313+00 — C = 44 #, F = 0
Exc. = 86.1 Cu. Yd.
Emb. = 0

559.59 — √51.91
312+50 — C = 49 #, F = 0
Exc. = 93.5 Cu. Yd.
Emb. = 0

559.83 — √53.96
312+00 — C = 52 #, F = 0
Exc. = 99.1 Cu. Yd.
Emb. = 0

557.78 — √55.85
311+50 — C = 55 #, F = 0
Exc. = 113.0 Cu. Yd.
Emb. = 0

559.48 — √57.59
311+00 — C = 57 #, F = 0
Exc. = 103.7 Cu. Yd.
Emb. = 0

561.65 — √59.75
310+50 — C = 56 #, F = 0 #
Exc. = 109.2 Cu. Yd.
Emb. = 0

PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

K & E CO. No. 345-3 MADE IN U.S.A. 42030-2

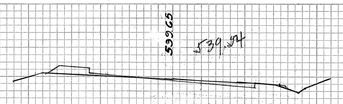
5221.27

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F 32(2)	1946	27A	27

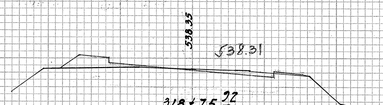
FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, NOTE BOOK, NO., AREAS CHECKED, BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, NOTE BOOK, NO., AREAS CHECKED, BY, DATE

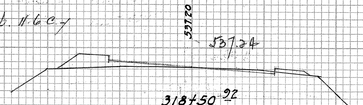
Aug. 20, 1946



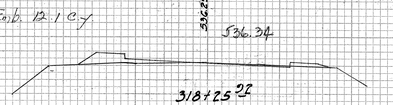
Exc. 4.2 c.y. 319+00 22 — C = 5 ft, F = 6 ft
Emb. 7.9 c.y.



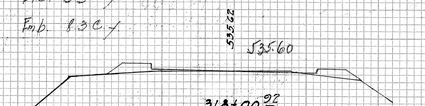
318+75 22 — C = 4 ft, F = 11 ft
Exc. 2.8 c.y.
Emb. 11.6 c.y.



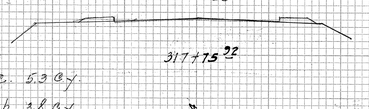
318+50 22 — C = 2 ft, F = 14 ft
Exc. 1.4 c.y.
Emb. 12.1 c.y.



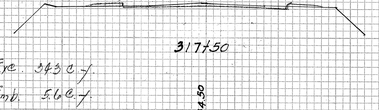
318+25 22 — C = 1 ft, F = 12 ft
Exc. 3.3 c.y.
Emb. 8.3 c.y.



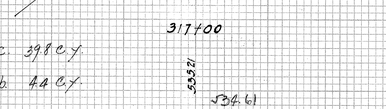
318+00 22 — C = 6 ft, F = 6 ft
Exc. 4.2 c.y.
Emb. 5.1 c.y.



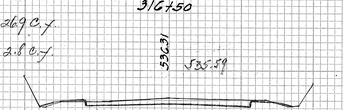
317+75 22 — C = 3 ft, F = 5 ft
Exc. 5.3 c.y.
Emb. 3.8 c.y.



317+50 — C = 8 ft, F = 3 ft
Exc. 3.3 c.y.
Emb. 5.6 c.y.



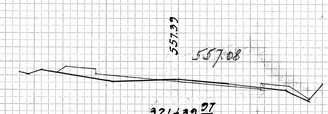
317+00 — C = 29 ft, F = 3 ft
Exc. 39.8 c.y.
Emb. 4.4 c.y.



316+50 — C = 14 ft, F = 2 ft
Exc. 26.9 c.y.
Emb. 2.8 c.y.



316+00 — C = 15 ft, F = 1 ft
Exc. 26.7 c.y.
Emb. 0.9 c.y.



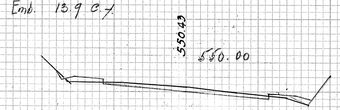
321+39 27 — C = 3 ft, F = 14 ft
Exc. 4.2 c.y.
Emb. 10.7 c.y.



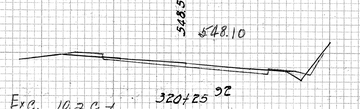
321+14 27 — C = 6 ft, F = 9 ft
Exc. 4.2 c.y.
Emb. 5.0 c.y.



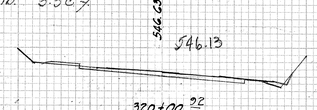
321+00 — C = 9 ft, F = 9 ft
Exc. 19.4 c.y.
Emb. 13.9 c.y.



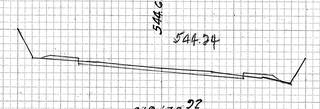
320+50 — C = 12 ft, F = 6 ft
Exc. 10.7 c.y.
Emb. 8.2 c.y.



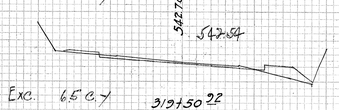
320+25 22 — C = 12 ft, F = 4 ft
Exc. 10.2 c.y.
Emb. 3.3 c.y.



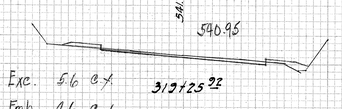
320+00 22 — C = 10 ft, F = 3 ft
Exc. 10.2 c.y.
Emb. 2.8 c.y.



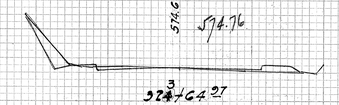
319+75 22 — C = 12 ft, F = 3 ft
Exc. 8.8 c.y.
Emb. 5.6 c.y.



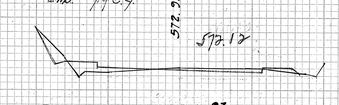
319+50 22 — C = 7 ft, F = 9 ft
Exc. 6.5 c.y.
Emb. 6.0 c.y.



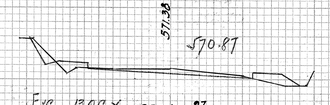
319+25 22 — C = 7 ft, F = 4 ft
Exc. 5.6 c.y.
Emb. 4.6 c.y.



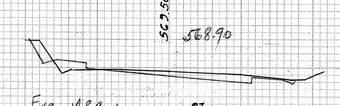
324+64 27 — C = 12 ft, F = 6 ft
Exc. 10.2 c.y.
Emb. 7.9 c.y.



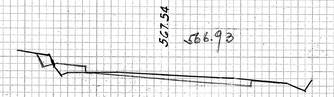
323+39 27 — C = 10 ft, F = 11 ft
Exc. 9.3 c.y.
Emb. 11.1 c.y.



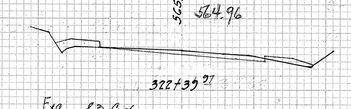
323+14 27 — C = 10 ft, F = 13 ft
Exc. 12.0 c.y.
Emb. 8.3 c.y.



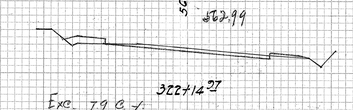
322+89 27 — C = 18 ft, F = 5 ft
Exc. 14.8 c.y.
Emb. 5.6 c.y.



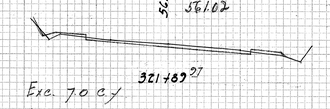
322+64 27 — C = 14 ft, F = 7 ft
Exc. 10.7 c.y.
Emb. 7.9 c.y.



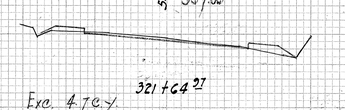
322+39 27 — C = 9 ft, F = 10 ft
Exc. 8.2 c.y.
Emb. 7.4 c.y.



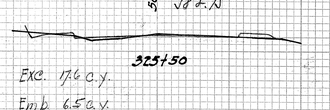
322+14 27 — C = 9 ft, F = 6 ft
Exc. 7.9 c.y.
Emb. 4.7 c.y.



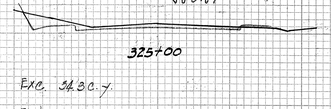
321+89 27 — C = 8 ft, F = 4 ft
Exc. 7.0 c.y.
Emb. 5.1 c.y.



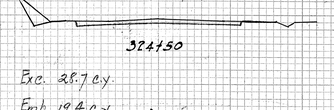
321+64 27 — C = 7 ft, F = 7 ft
Exc. 4.7 c.y.
Emb. 9.7 c.y.



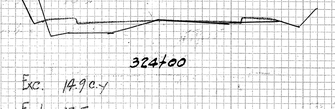
325+50 — C = 2 ft, F = 6 ft
Exc. 17.6 c.y.
Emb. 6.5 c.y.



325+00 — C = 17 ft, F = 1 ft
Exc. 34.3 c.y.
Emb. 0.9 c.y.



324+50 — C = 20 ft, F = 0 ft
Exc. 28.7 c.y.
Emb. 19.4 c.y.



324+00 — C = 11 ft, F = 21 ft
Exc. 14.9 c.y.
Emb. 17.5 c.y.

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