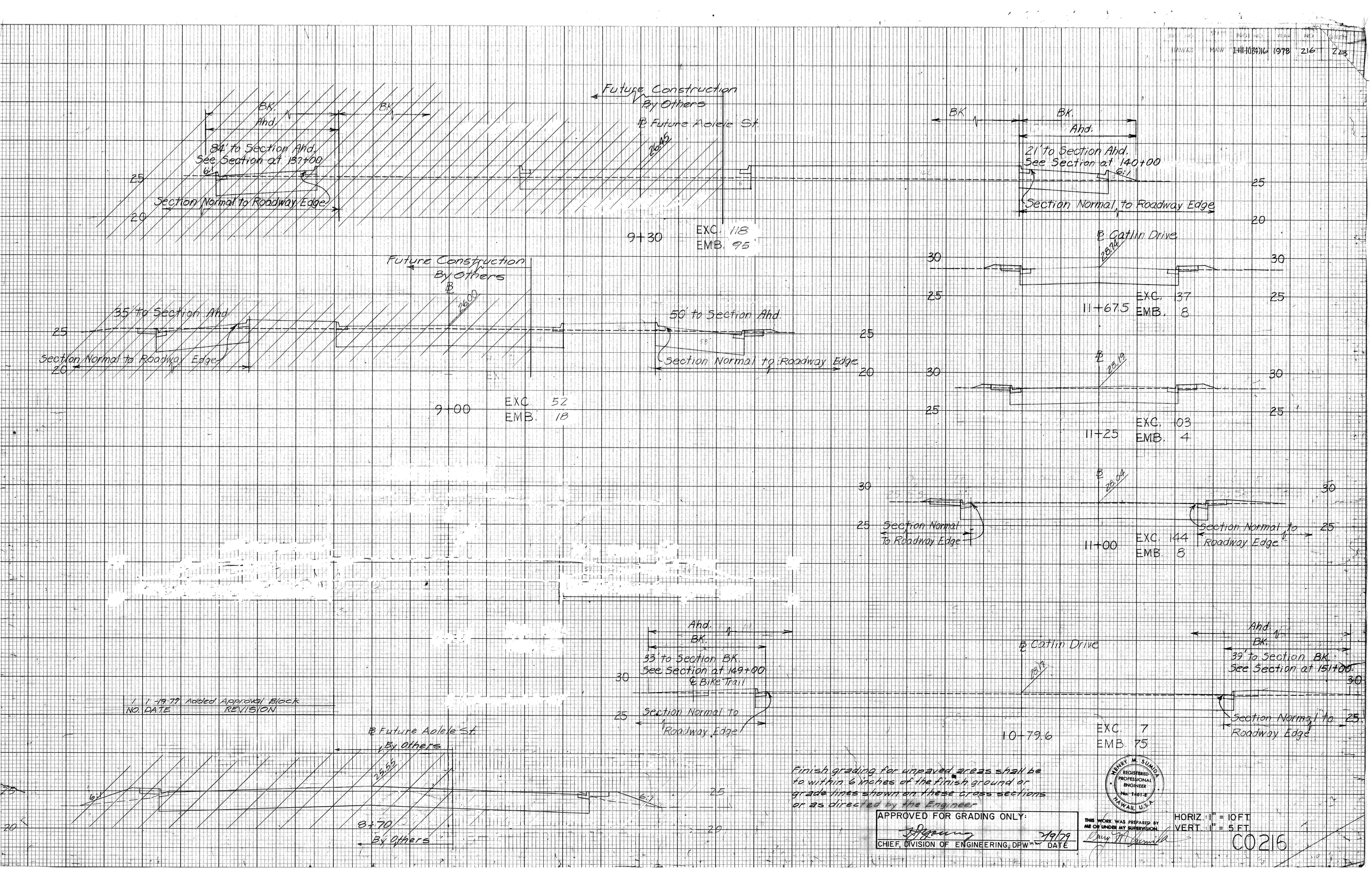


NO.	DATE	REVISION
1	1-19-79	Added Approval Block

Finish grading for unpaved areas shall be to within 6 inches of the finish ground or grade lines shown on these cross sections or as directed by the Engineer

APPROVED FOR GRADING ONLY:

CHIEF, DIVISION OF ENGINEERING, DPW — DATE 1/9/79

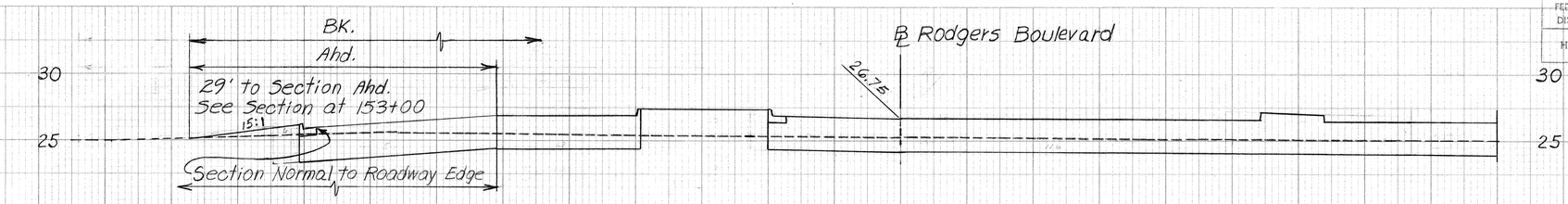
HENRY M. SUMIDA
REGISTERED PROFESSIONAL ENGINEER
No. 1401-E
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

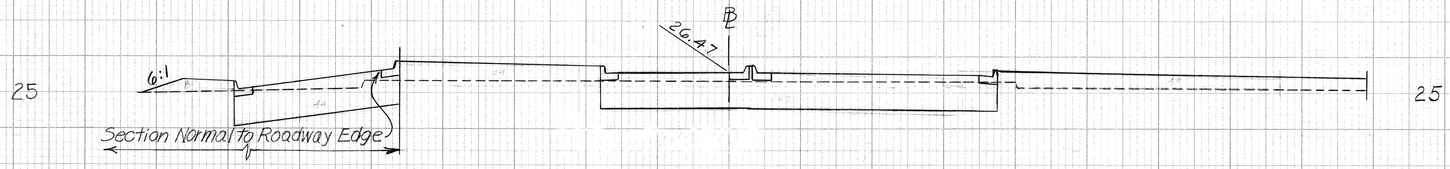
HORIZ. 1" = 10 FT.
VERT. 1" = 5 FT.

C0216

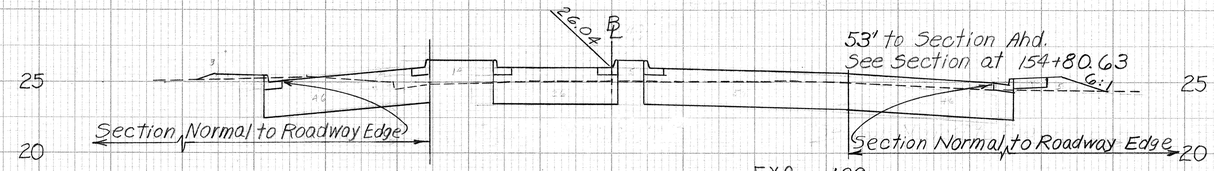
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHI-1(121)16	1978	Z17	223



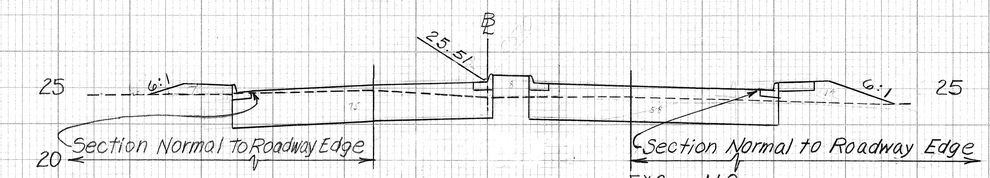
19+18.4 EXC. 156 EMB. 54



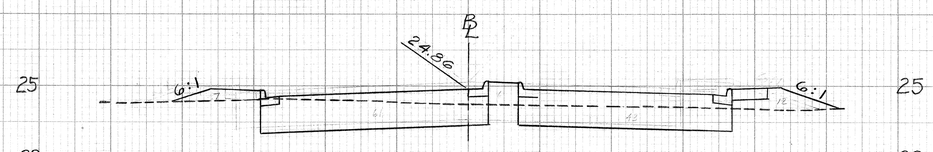
19+00.7 EXC. 239 EMB. 58



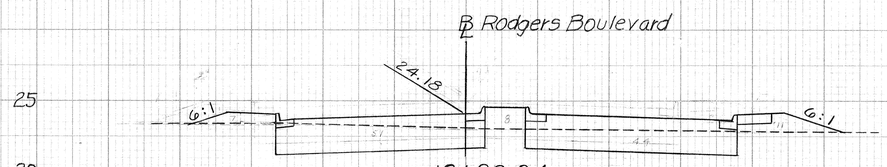
18+75 EXC. 139 EMB. 26



18+50 EXC. 110 EMB. 25



18+25 EXC. 85 EMB. 22



18+02.04

R/W

Finish grading for unpaved areas shall be to within 6 inches of the finish ground or grade lines shown on these cross sections or as directed by the Engineer

HENRY M. SUMIDA REGISTERED PROFESSIONAL ENGINEER No. 1461-E HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

APPROVED FOR GRADING ONLY:

CHIEF, DIVISION OF ENGINEERING, DPW — DATE 7/9/79

HORIZ.: 1" = 10 FT.
VERT.: 1" = 5 FT.

C0217

NO.	DATE	REVISION
1	1-19-79	Added Approval Block Added Right of Way

R/W 168' H-1 ℄

STA. 138+26
BEGIN PROJECT
I-HI-1(124):16

℄ Bike Trail
℄ Mauka F.R.
℄ Makai F.R.
Bus Lane
12.75'
28.10
27.88
27.65
27.03
27.21
10'
Pier
BK.
AHD.
2.11
2.72 F.L.
2.66 F.L.
2.62 F.L.
2.76 F.L.
2.74 F.L.
26.89
26.68
26.46
26.24
26.02
Structural Section in Place
Bus Stop Platform
+5.0%
10:1
35:1
9:1
℄ Sidewalk
+2.0%
100' to H-1 ℄

139+00
138+43
138+00
137+00
136+00
135+00

EXC. 221
EMB. 18

EXC. 36
EMB. 76

EXC. 144
EMB. 141

EXC. 228
EMB. 131

EXC. 246
EMB. 120

EXC. 241
EMB. 154

Existing Pavement

Included in Future Aolele St. Quantities

This Area Ahd. Included in Future Aolele St. Quantities See Section at 9+30 on Sht.

Finish grading for unpaved areas shall be to within 6 inches of the finish ground or grade lines shown on these cross sections or as directed by the Engineer.

APPROVED FOR GRADING ONLY:

CHIEF, DIVISION OF ENGINEERING, DPW — DATE 2/9/79

HENRY M. SUMIDA
REGISTERED PROFESSIONAL ENGINEER
No. 1461-E
HAWAII, U.S.A.

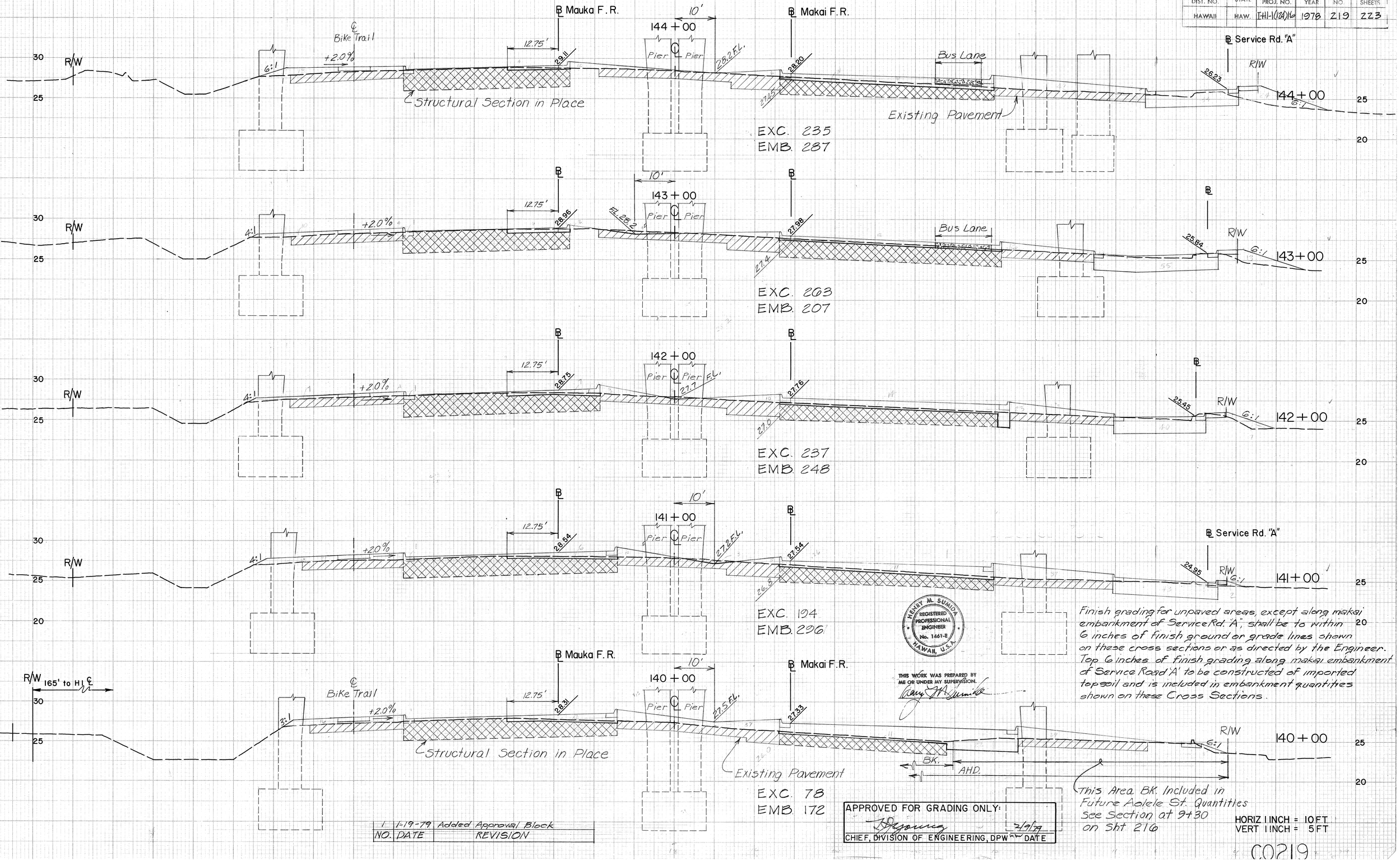
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

HORIZ 1 INCH = 10 FT
VERT 1 INCH = 5 FT

1-19-79 Added Approval Block, Added Right of Way
NO. DATE REVISION

C0218

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(12)16	1978	219	223



HENRY M. SUMIDA
REGISTERED PROFESSIONAL ENGINEER
No. 1461-E
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Finish grading for unpaved areas, except along makai embankment of Service Rd. 'A', shall be to within 6 inches of finish ground or grade lines shown on these cross sections or as directed by the Engineer. Top 6 inches of finish grading along makai embankment of Service Road 'A' to be constructed of imported topsoil and is included in embankment quantities shown on these Cross Sections.

This Area BK. Included in Future Aolele St. Quantities See Section at 9+30 on Sht. 216

NO.	DATE	REVISION
1	1-19-79	Added Approval Block

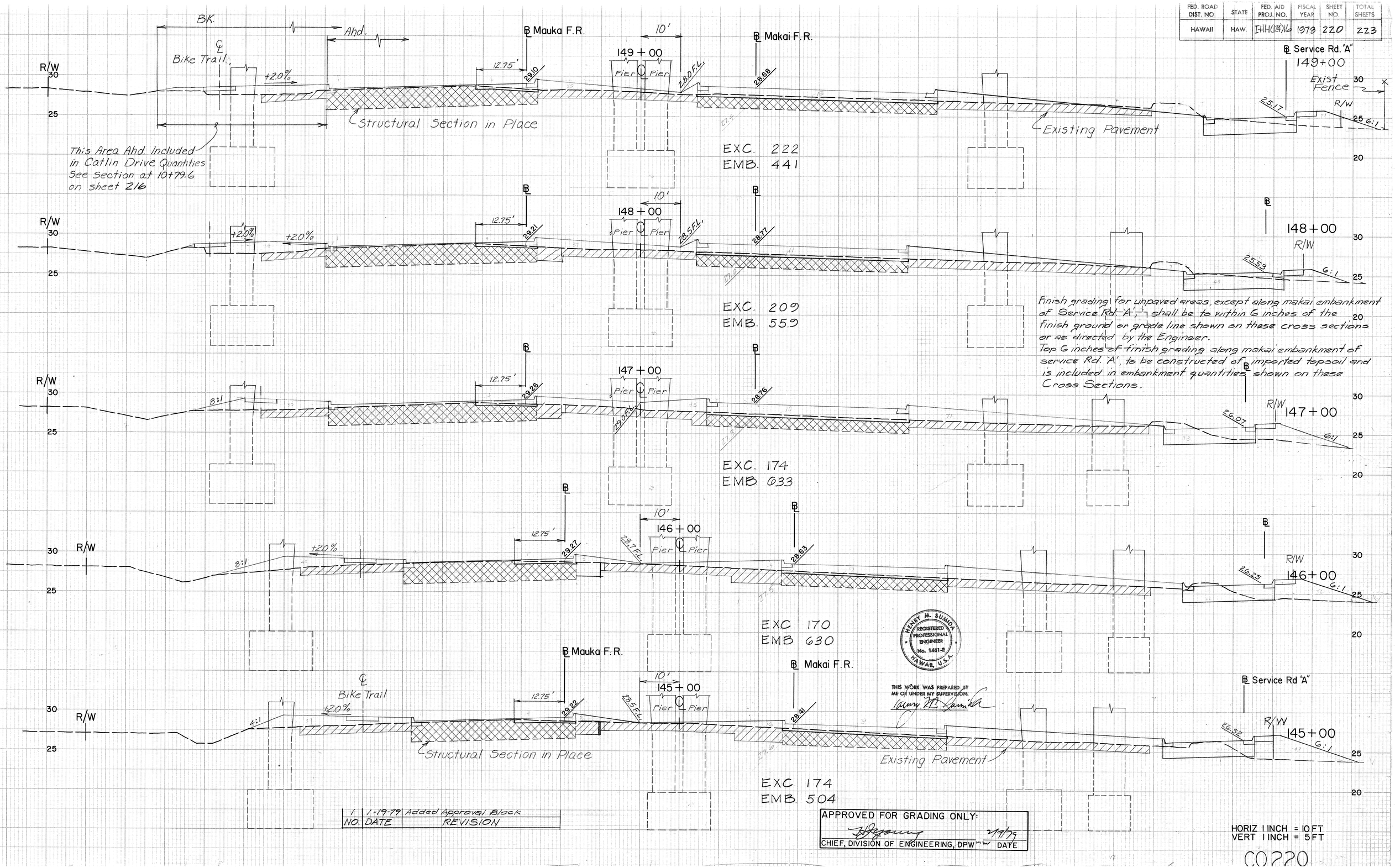
APPROVED FOR GRADING ONLY:

CHIEF, DIVISION OF ENGINEERING, DPW — DATE 2/9/79

HORIZ 1 INCH = 10 FT
VERT 1 INCH = 5 FT

C0219

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHH(129)16	1979	220	223



Finish grading for unpaved areas, except along makai embankment of Service Rd 'A', shall be to within 6 inches of the finish ground or grade line shown on these cross sections or as directed by the Engineer.
Top 6 inches of finish grading along makai embankment of service Rd. 'A', to be constructed of imported topsoil and is included in embankment quantities shown on these Cross Sections.

HENRY M. SUMIDA REGISTERED PROFESSIONAL ENGINEER No. 1461-E HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Henry M. Sumida

NO.	DATE	REVISION
1	1-19-79	Added Approval Block

APPROVED FOR GRADING ONLY:
CHIEF, DIVISION OF ENGINEERING, DPW
DATE 2/9/79

HORIZ 1 INCH = 10 FT
VERT 1 INCH = 5 FT

C0220

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(24)16	1978	221	223

140' to ℄ H-1 — Bus Lane — +2.0% — 12.75' — ℄ — 154+30 ℄ BK. AHD. — Included in Rodgers Blvd. Quantities

Structural Section in Place — ℄ Mauka F.R. — BK. — AHD. — ℄ Makai F.R.

154+00 — Pier — ℄ H-1 — Pier — EXC. 99 — EMB. 28

℄ Service Rd. "B" — 24.45 — Ahd. — BK. — 154+80.63 Beg. Service Rd. "B"

R/W 190.3' to H-1 ℄ — ℄ Mauka Drainage Ditch — ℄ Bike Trail — 28.6 — 2:1 — 14' — 22' — 28.14 — 27.14

+2.0% — Bus Lane — RODGERS BLVD. — Ahd. — BK. — 154+00

+1.5% — 153+71 ℄ BK. AHD. — EXC. 99 — EMB. 29

Included in Rodgers Blvd. quantities — This Area BK. Included in Rodgers Blvd Quantities - See Section at 18+75, Sht. 217

R/W 173.5' to H-1 ℄ — Bus Stop Platform — +1.5% — 153+00 — Pier — ℄ H-1 — Pier — 27.9 EL. — 27.75

EXC. 75 — EMB. 154

Included in Rodgers Blvd. quantities — AHD. — BK. — 153+00 — 15:1

EXC. 141 — EMB. 306

This Area Ahd. Included in Rodgers Blvd. Quantities See Section at 19+18.14, Sht. 217

℄ Bike Trail — 28.5 — +2.0% — +2.0% — 14.5' — 8' — 2:1 — 2:1 — 12.75' — 28.54 — 27.94 — 27.99

152+00 — Pier — ℄ — Pier — 15:1

EXC. 74 — EMB. 346

Finish grading for unpaved areas, except along makai embankment of Service Rd. 'A', shall be to within 6 inches of the finish ground or grade lines shown on these cross sections or as directed by the Engineer. Top 6 inches of finish grading along makai embankment of Service Rd. 'A' to be constructed of imported topsoil and is included in embankment quantities shown on these Cross Sections. Mauka Drainage Ditch shall be finished to the lines and Grades as shown.

140' to ℄ H-1 — Ahd. — BK. — ℄ Mauka Drainage Ditch — +2.0% — +4.0% — 10' — 12.75' — 28.74 — 27.0 FL. — 28.23

151+00 — Pier — ℄ — Pier — 15:1

5' — This Area BK. Included in Catlin Dr. Quantities - See Section at 10+79.6 on Sheet 216

Included in Catlin Dr. Quantities — 150+27 — BK. AHD. — EXC. 110 — EMB 143

AHD. — BK. — BK. — Ahd. — 6:1 — R/W — 190' to H-1 ℄

Included in Catlin Dr Quantities — CATLIN DR. — 12.75' — 28.94 — 28.47 — 150+00 — Pier — ℄ H-1 — Pier — ℄ Service Rd. "A" — 26.47

Structural Section in Place — Existing Pavement

EXC. 335 — EMB. 215

HENRY M. SUMIDA — REGISTERED PROFESSIONAL ENGINEER — No. 1461-E — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

APPROVED FOR GRADING ONLY:

CHIEF, DIVISION OF ENGINEERING, DPW — DATE 7/9/79

HORIZ 1 INCH = 10 FT
VERT 1 INCH = 5 FT

NO.	DATE	REVISION
1	1-19-79	Added Approval Block Added R/W @ Sta. 150+27

C0221

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(124)16	1978	222	223

140' to ℄ H-1

℄ Mauka Drainage Ditch

℄ Bike Trail

℄ Mauka F.R.

℄ Makai F.R.

℄ Service Rd. "B"

℄ H-1

Pier

Structural Section in Place

Existing Pavement

Bus Lane

+2.5%

+2.0%

25:1

2:1

5'

10'

12.75'

R/W

159+00 — 22.77 — 26.42 — 27.69 — 26.5 F.L. — 25.9

EXC. 354
EMB. 306

158+00 — 23.37 — 26.55 — 27.62 — 26.5 F.L. — 25.9

EXC. 333
EMB. 281

157+00 — 23.82 — 26.79 — 27.64 — 26.0 F.L. — 25.9

EXC. 346
EMB. 209

156+00 — 24.11 — 27.03 — 27.75 — 26.8 F.L.

EXC. 361
EMB. 193

155+00 — 24.40 — 27.27 — 27.94 — 27.5 F.L.

EXC. 137
EMB. 128

Finish grading for unpaved areas shall be to within 6 inches of the finish ground or grade lines shown on these cross sections or as directed by the Engineer. Mauka Drainage Ditch shall be finished to the grades and lines as shown.

BK. From 154+30 Ahd. BK. From 154+80.63

HENRY M. SUMIDA
REGISTERED PROFESSIONAL ENGINEER
No. 1461-E
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Henry M. Sumida

APPROVED FOR GRADING ONLY:
CHIEF, DIVISION OF ENGINEERING, DPW
7/19/79
DATE

NO.	DATE	REVISION
1	1-19-79	Added Approval Block

HORIZ 1 INCH = 10 FT
VERT 1 INCH = 5 FT

C0222

FED. ROAD DIST. NO. | STATE | SHEET NO. | TOTAL SHEETS
HAWAII | H-H-1(124)16 | 178 | 223 | 223

140' to ℄ H-1 | ℄ Mauka Drainage Ditch | ℄ Bike Trail | ℄ Mauka F.R. | ℄ Makai F.R. | ℄ Service Rd. "B"

R/W 191' to H-1 ℄

STA 164+00

30 / 25 / 20

2:1 | 2:1 | 2' | 2.50

25:1

12.75' | 23.11

℄ Structural Section in Place

164 + 00 ℄ H-1 Pier Pier

12.88 | 23.0 F.L.

Existing Pavement

℄ Service Rd. "B" 164 + 00 R/W 23.92

EXC 378
EMB 267

STA 163+00

R/W

30 / 25

2' | 2:1 | 24.5

25:1

10' | 12.75' | 28.17

163 + 00 Pier ℄ Pier

27.5 F.L.

27.48

R/W 163 + 00 23.32

EXC 344
EMB 350

STA 162+00

R/W

25 / 20

3' | 2:1 | 24.0

25:1

10' | 12.75' | 28.43

162 + 00 Pier ℄ Pier

27.0 F.L.

25.97

R/W 162 + 00 23.07

EXC 336
EMB 359

STA 161+05 END PROJECT
I-HI-1(124):16

Finish grading for unpaved areas, except sides and inverts of drainage ditches shall be to within 6 inches of the finish ground or grade lines shown on these cross sections or as directed by the Engineer.

STA 161+00

R/W

25 / 20

4' | 2:1 | 23.5

25:1

10' | 12.75' | 28.10

161 + 00 Pier ℄ Pier

26.5 F.L.

25.81

R/W 161 + 00 22.82

EXC 467
EMB 317

STA 160+00

R/W 191' to H-1 ℄

25 / 20

5' | 2:1 | 2:1 | 24.0

20:1

Bike ℄ Trail

22.7

Existing 30" Drain

℄ Mauka Drainage Ditch

℄ Mauka F.R. | ℄ Makai F.R.

10' | 12.75' | 27.85

160 + 00 Pier ℄ H-1 Pier

26.0 F.L.

25.61

℄ Structural Section in Place

Existing Pavement

℄ Service Rd. "B" 160 + 00 R/W 22.43

EXC 486
EMB 371

1 | 1-19-79 | Added Approval Block
NO. | DATE | REVISION

APPROVED FOR GRADING ONLY:
CHIEF, DIVISION OF ENGINEERING, DPW — DATE 2/9/79

HORIZ 1 INCH = 10 FT
VERT 1 INCH = 5 FT

KENNY M. SUMIDA
REGISTERED PROFESSIONAL ENGINEER
No. 1461-E
HAWAII, U.S.A.

THIS EX WAS PREPARED BY ME OR MY SUPERVISION.
Kenny M. Sumida

C0223