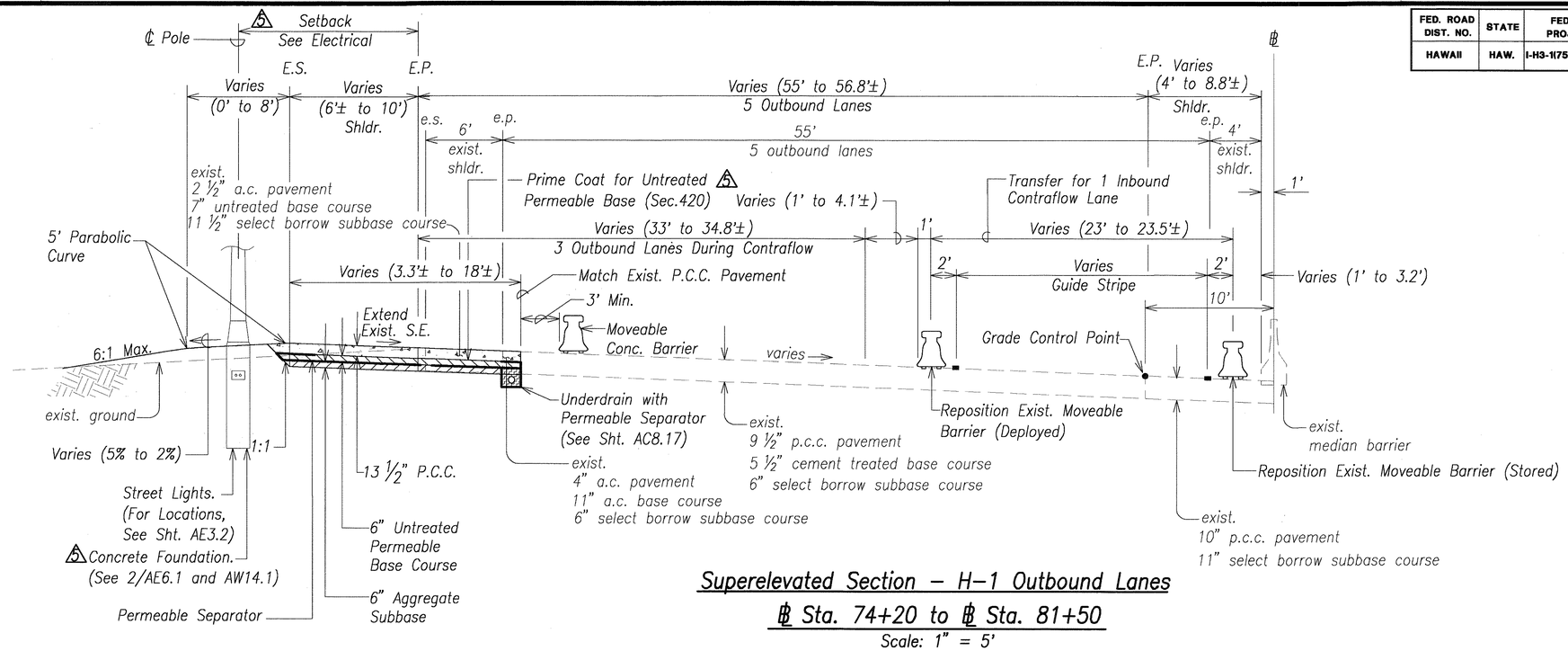
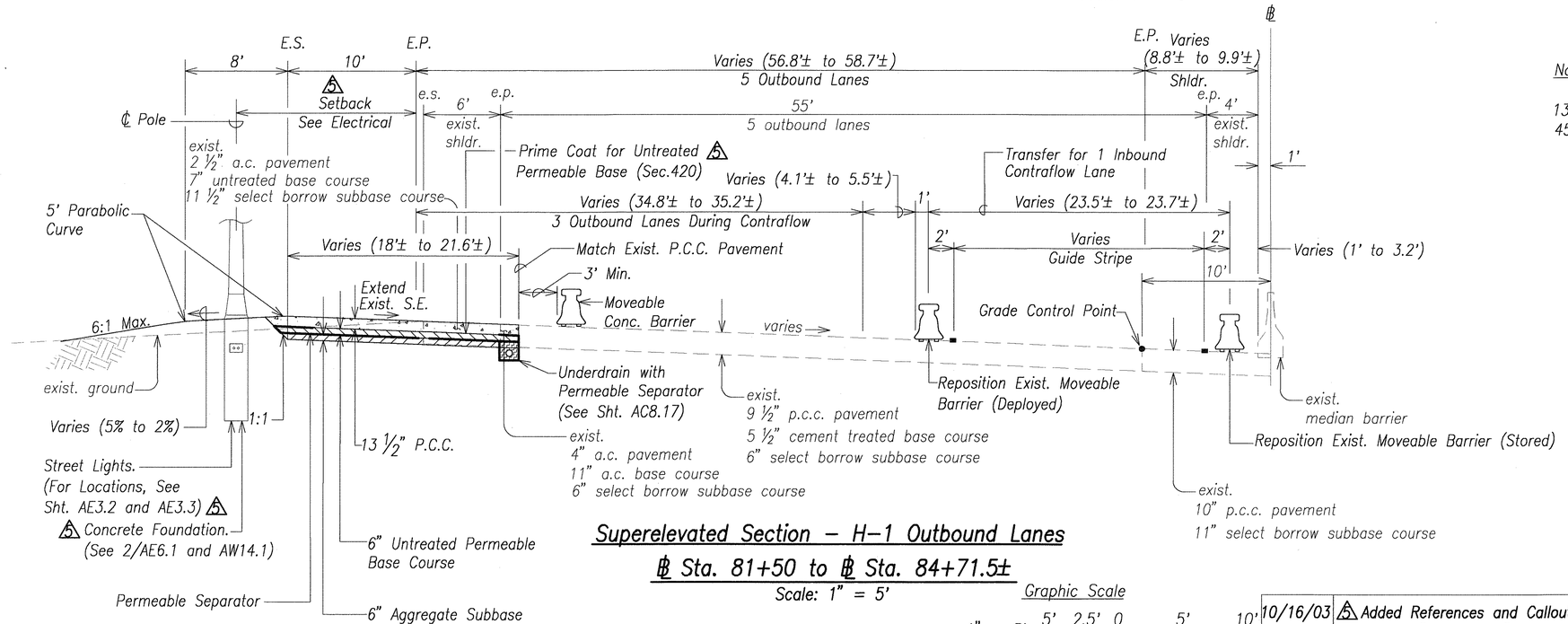
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 25	816



Superelevated Section – H-1 Outbound Lanes
℄ Sta. 74+20 to ℄ Sta. 81+50
Scale: 1" = 5'



Superelevated Section – H-1 Outbound Lanes
℄ Sta. 81+50 to ℄ Sta. 84+71.5±
Scale: 1" = 5'

Graphic Scale
1" = 5' 5' 2.5' 0 5' 10'
Scale in Feet

Note:

13 ½" P.C.C. sections shall consist of 12-hr, 450-psi min. flexural strength concrete.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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No. NOTE BOOK
SURVEY PLOTTED BY
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DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

DATE	REVISION
10/16/03	5 Added References and Callouts; Revised "Prime Coat" Callouts.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
INTERSTATE ROUTE H-1

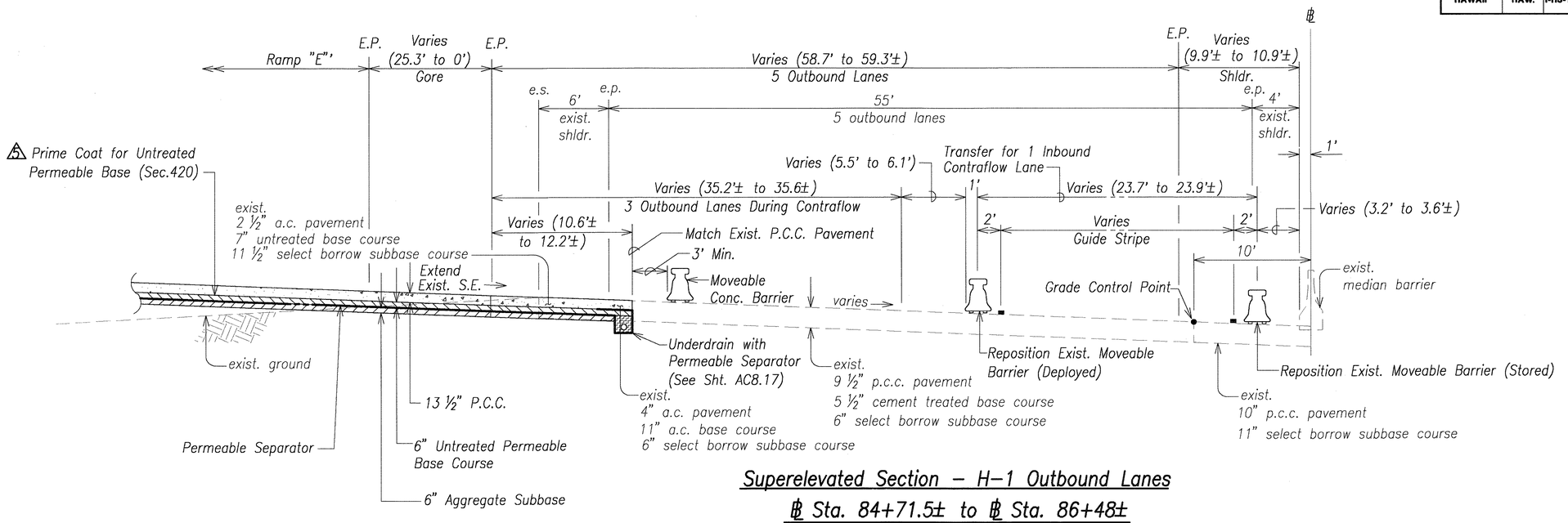
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.1 OF 350 SHEETS

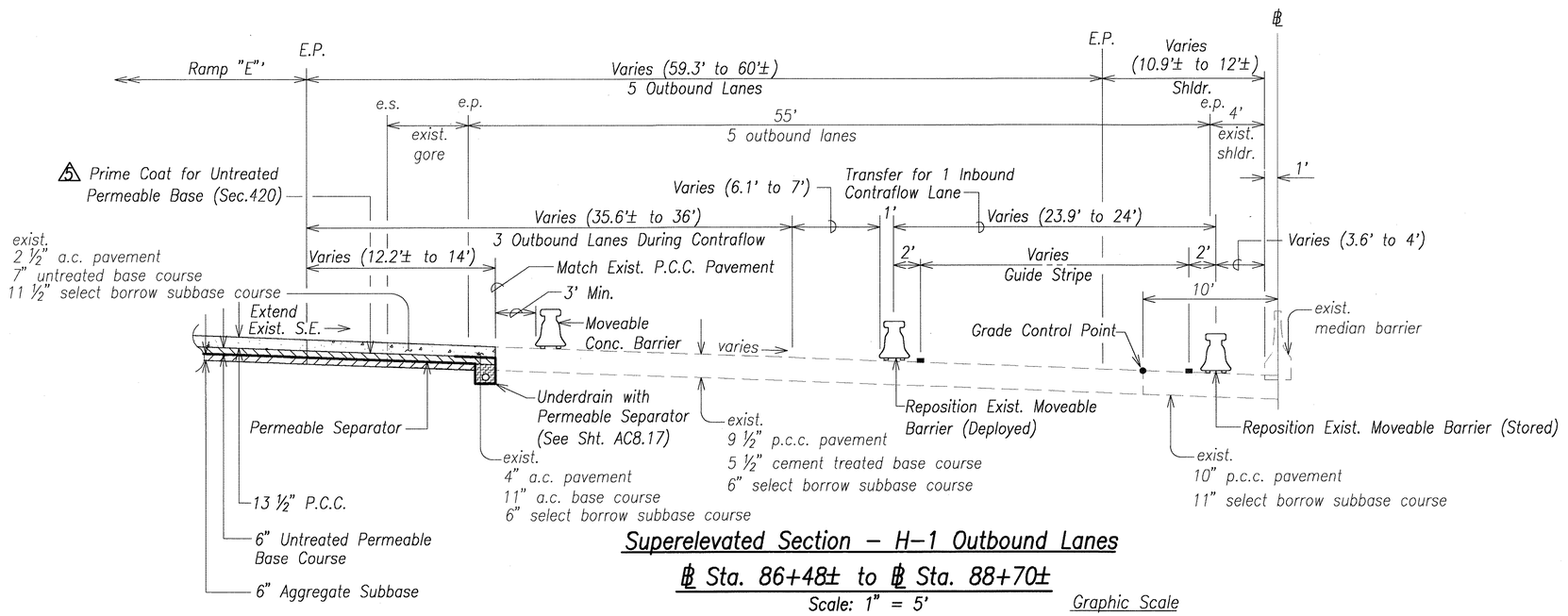
RMTC JOB NO.: 1-19369-OE

ADD. 25

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 26	816



Superelevated Section – H-1 Outbound Lanes
℄ Sta. 84+71.5± to ℄ Sta. 86+48±
Scale: 1" = 5'



Superelevated Section – H-1 Outbound Lanes
℄ Sta. 86+48± to ℄ Sta. 88+70±
Scale: 1" = 5'

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'

Scale in Feet

Note:

13 ½" P.C.C. sections shall consist of 12-hr, 450-psi min. flexural strength concrete.

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	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=5' Date: Mar. 31, 2003

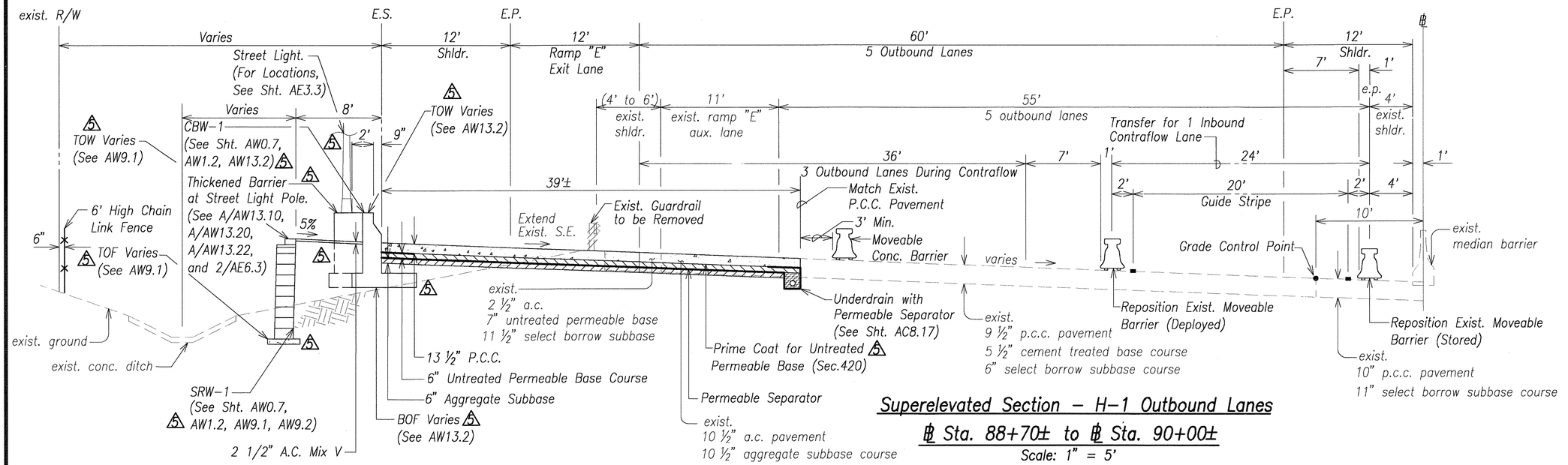
SHEET No. AC1.2 OF 350 SHEETS

DATE	REVISION
10/16/03	5 Revised "Prime Coat" Callouts.

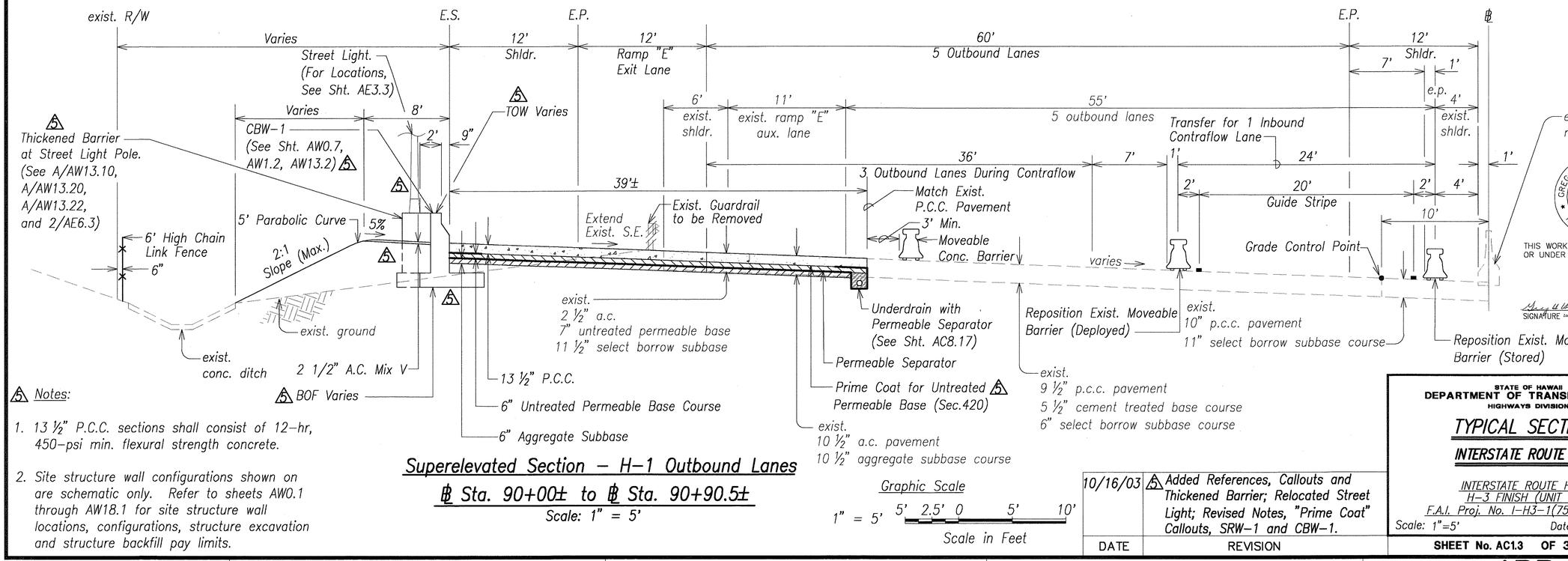
RMTC JOB NO.: 1-19369-OE

ADD. 26

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 27	816



Superelevated Section – H-1 Outbound Lanes
℄ Sta. 88+70± to ℄ Sta. 90+00±
Scale: 1" = 5'



Superelevated Section – H-1 Outbound Lanes
℄ Sta. 90+00± to ℄ Sta. 90+90.5±
Scale: 1" = 5'

Graphic Scale
1" = 5' 5' 2.5' 0 5' 10'
Scale in Feet

△5 Notes:

1. 13 ½" P.C.C. sections shall consist of 12-hr, 450-psi min. flexural strength concrete.
2. Site structure wall configurations shown on are schematic only. Refer to sheets AW0.1 through AW18.1 for site structure wall locations, configurations, structure excavation and structure backfill pay limits.

DATE	REVISION
10/16/03	△5 Added References, Callouts and Thickened Barrier; Relocated Street Light; Revised Notes, "Prime Coat" Callouts, SRW-1 and CBW-1.

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

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

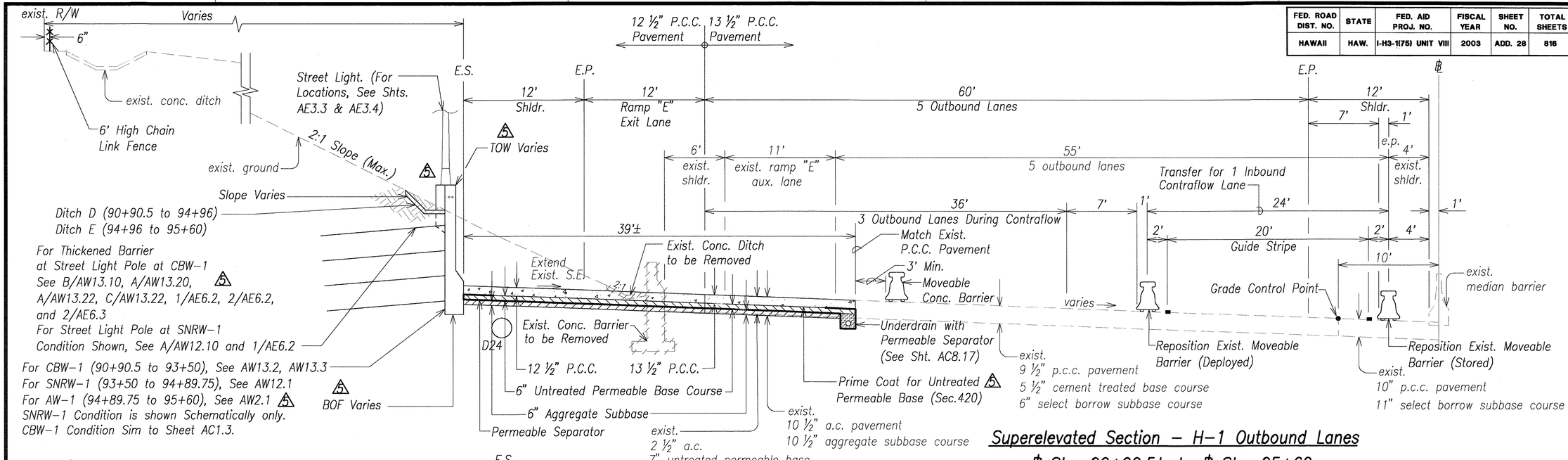
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.3 OF 350 SHEETS

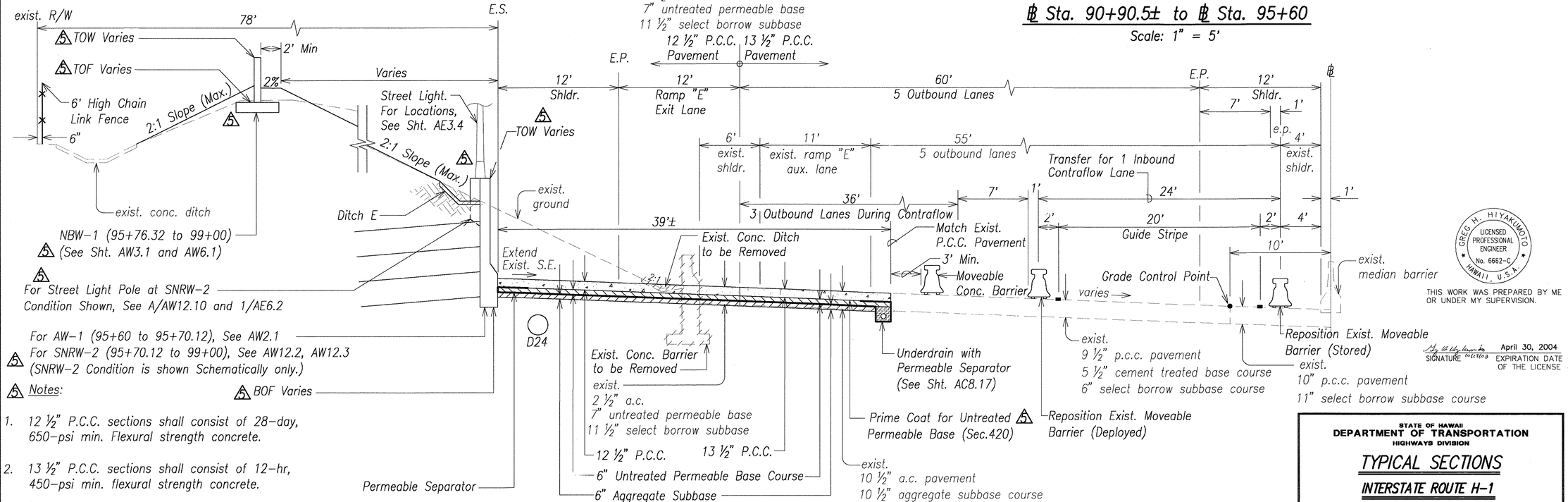
RMTC JOB NO.: 1-19369-0E

ADD. 27

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 28	816



Superelevated Section – H-1 Outbound Lanes
℄ Sta. 90+90.5± to ℄ Sta. 95+60
Scale: 1" = 5'



Superelevated Section – H-1 Outbound Lanes
℄ Sta. 95+60 to ℄ Sta. 99+00±
Scale: 1" = 5'

Graphic Scale
1" = 5'
5' 2.5' 0 5' 10'
Scale in Feet

DATE	REVISION
10/16/03	⚠5 Added References, Callouts and Thickened Barrier; Relocated Street Light; Revised Notes, "Prime Coat" Callouts, References and NBW-1.

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DESIGNED BY
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CHECKED BY
DATE
ORIGINAL PLAN
NOTE BOOK
No.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

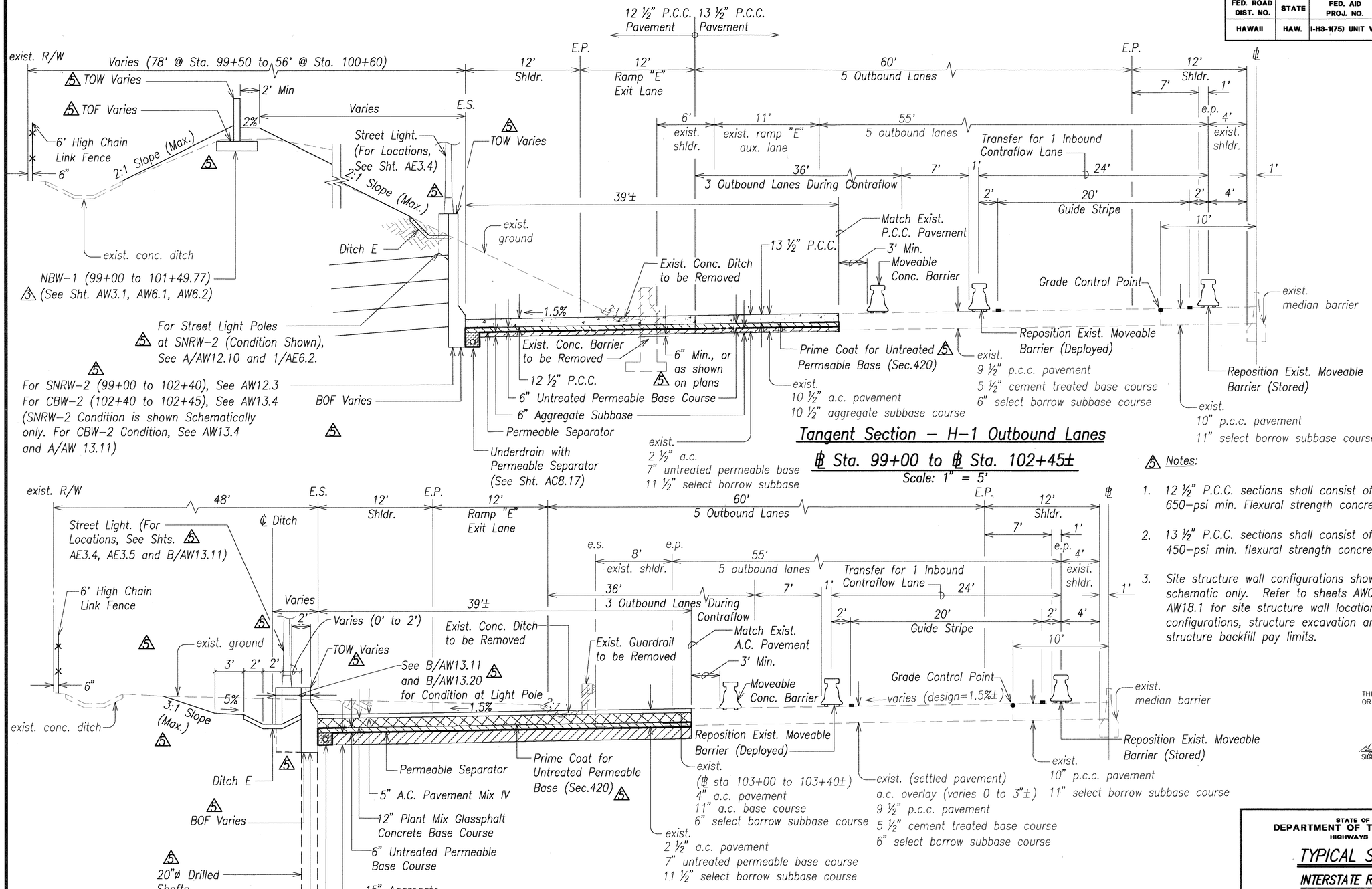
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.4 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 28

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 29	816



Tangent Section – H-1 Outbound Lanes

℄ Sta. 99+00 to ℄ Sta. 102+45±

Scale: 1" = 5'

Tangent Section – H-1 Outbound Lanes

℄ Sta. 102+45± to ℄ Sta. 103+40

Scale: 1" = 5'

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'

Scale in Feet

Notes:

1. 12 ½" P.C.C. sections shall consist of 28-day, 650-psi min. Flexural strength concrete.
2. 13 ½" P.C.C. sections shall consist of 12-hr, 450-psi min. flexural strength concrete.
3. Site structure wall configurations shown on are schematic only. Refer to sheets AW0.1 through AW18.1 for site structure wall locations, configurations, structure excavation and structure backfill pay limits.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/16/03	5 Added References, Callouts and Thickened Barrier; Relocated Street Light; Revised Notes, "Prime Coat" Callouts; Deleted NBW-1.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

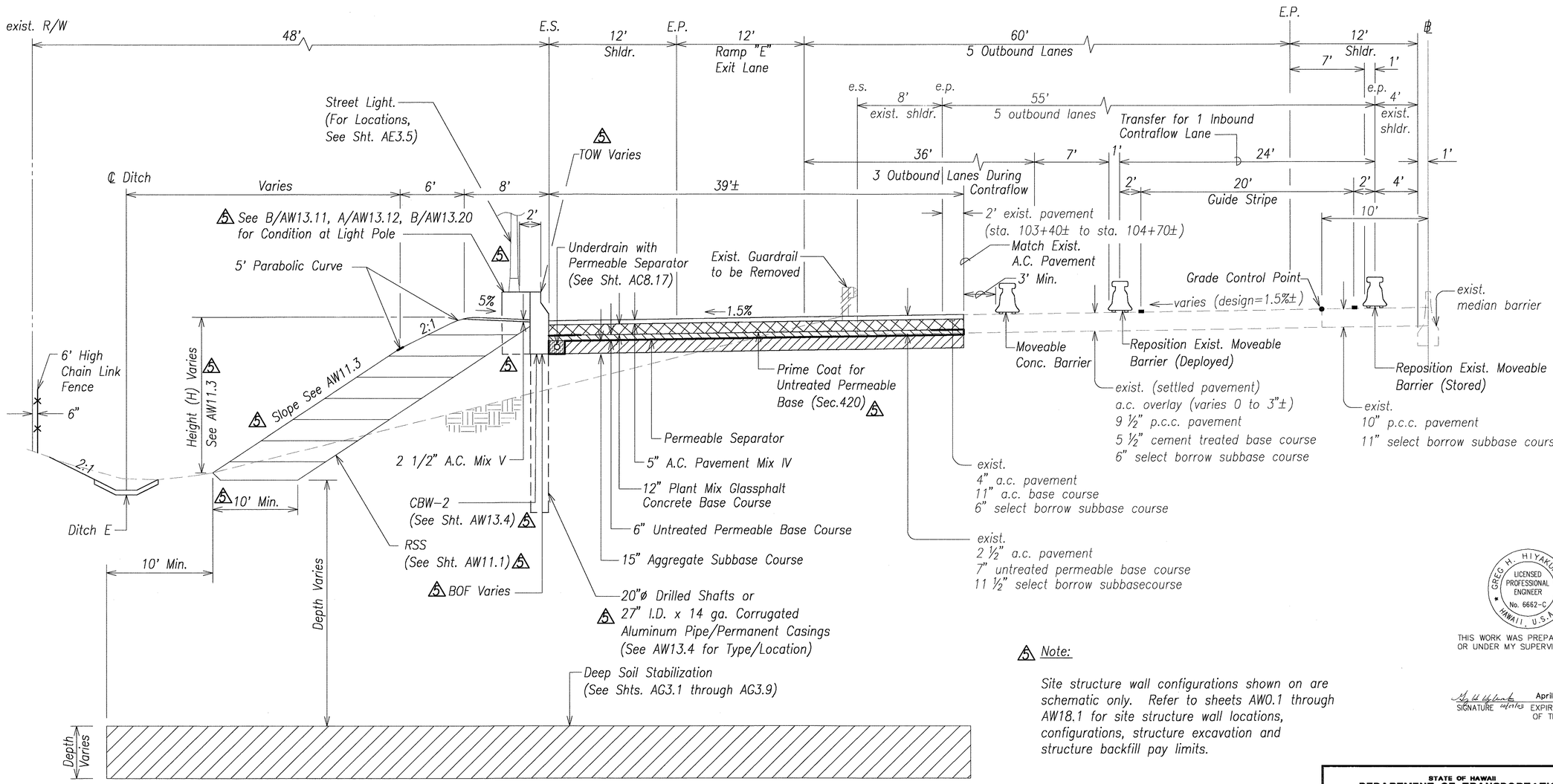
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.5 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 29

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 30	816



Tangent Section – H-1 Outbound Lanes

℄ Sta. 103+40 to ℄ Sta. 105+81.5

Scale: 1" = 5'

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'

Scale in Feet

DATE	REVISION
10/16/03	⚠5 Added Note, References, Callouts and Thickened Barrier; Relocated Street Light; Revised References, RSS and CBW-2.

ORIGINAL PLAN | NOTE BOOK No.

SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

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⚠5 Note:

Site structure wall configurations shown on are schematic only. Refer to sheets AW0.1 through AW18.1 for site structure wall locations, configurations, structure excavation and structure backfill pay limits.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

INTERSTATE ROUTE H-1

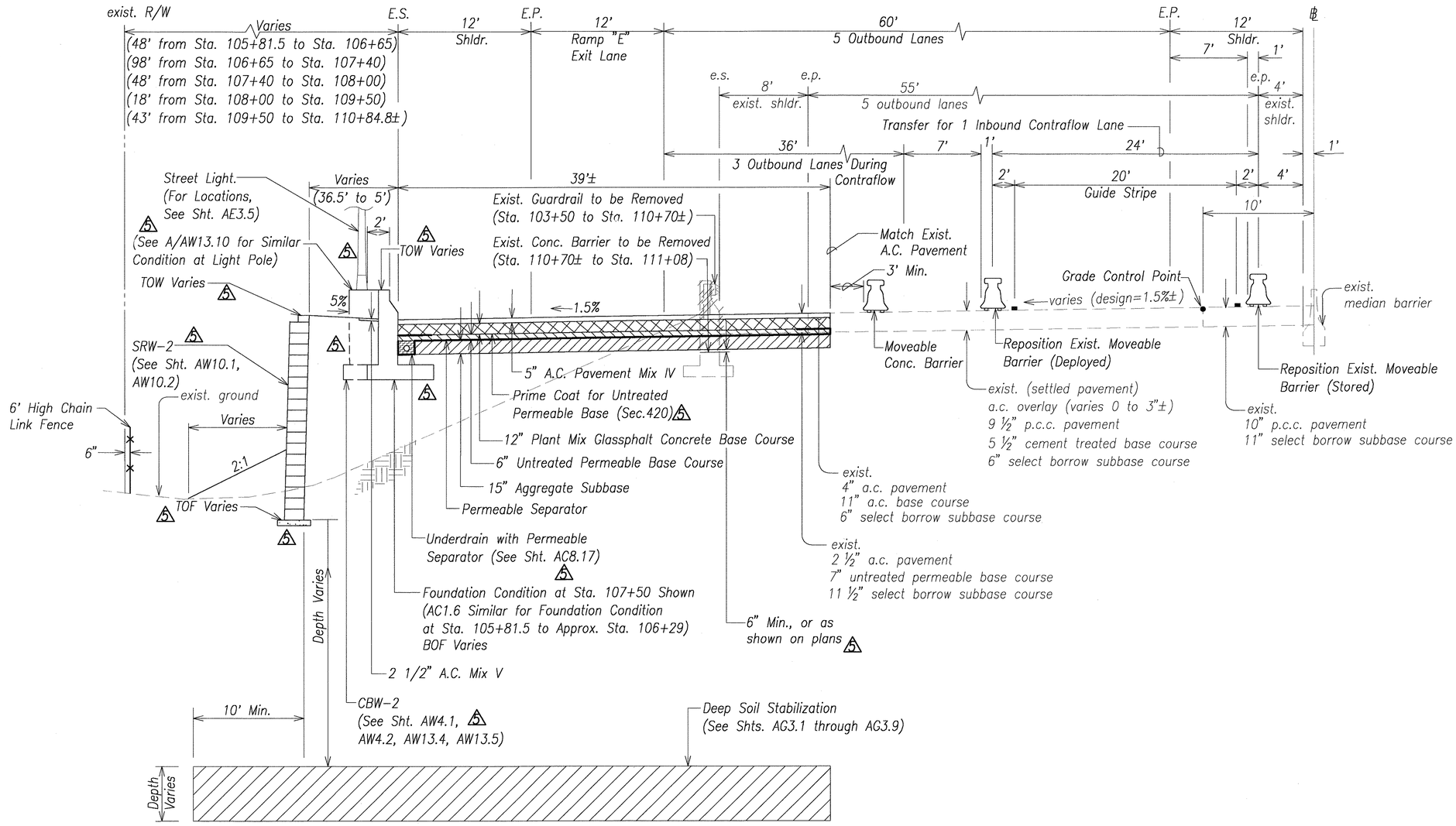
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.6 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 30

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 31	816



5 Notes:

1. For Typical Sections from H-1 Outbound Lanes ℄ Sta. 110+84.8± to ℄ Sta. 123+55±, see Shts. AS4.1 to AS4.13.
2. Site structure wall configurations shown on are schematic only. Refer to sheets AW0.1 through AW18.1 for site structure wall locations, configurations, structure excavation and structure backfill pay limits.

Tangent Section – H-1 Outbound Lanes
℄ Sta. 105+81.5 to ℄ Sta. 110+84.8±

Scale: 1" = 5'

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'

Scale in Feet

DATE	REVISION
10/16/03	5 Added References, Callouts and Thickened Barrier; Relocated Street Light; Revised Notes, References, SRW-2 and CBW-2.

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SURVEY PLOTTED BY
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NOTE BOOK
No.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

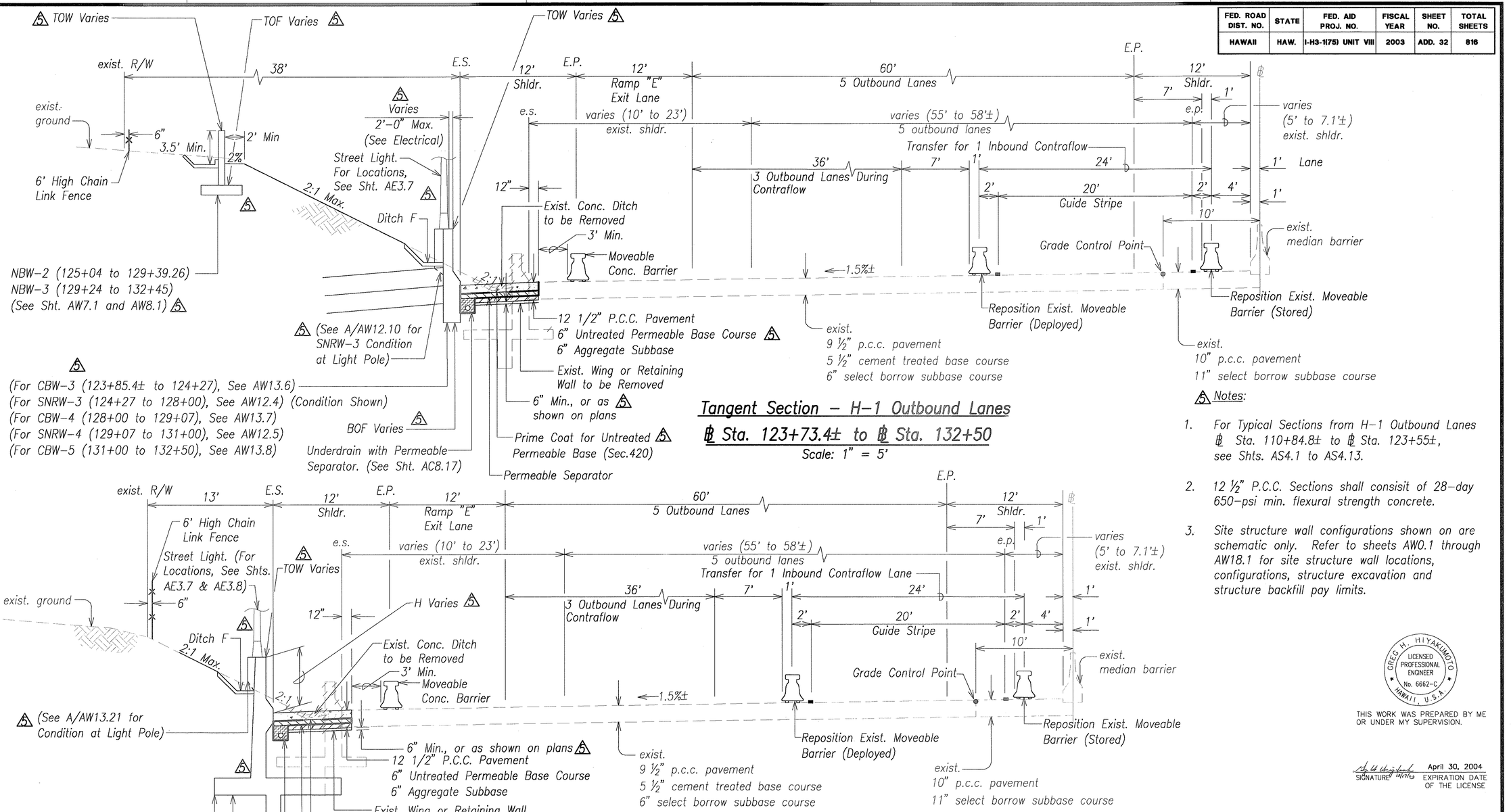
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.7 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 31

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 32	816



Tangent Section – H-1 Outbound Lanes
℄ Sta. 123+73.4± to ℄ Sta. 132+50
Scale: 1" = 5'

Tangent Section – H-1 Outbound Lanes
℄ Sta. 132+50 to ℄ Sta. 134+00
Scale: 1" = 5'

Graphic Scale
1" = 5' 5' 2.5' 0 5' 10'
Scale in Feet

5 Notes:

1. For Typical Sections from H-1 Outbound Lanes ℄ Sta. 110+84.8± to ℄ Sta. 123+55±, see Shts. AS4.1 to AS4.13.
2. 12 ½" P.C.C. Sections shall consisit of 28-day 650-psi min. flexural strength concrete.
3. Site structure wall configurations shown on are schematic only. Refer to sheets AW0.1 through AW18.1 for site structure wall locations, configurations, structure excavation and structure backfill pay limits.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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

DATE	REVISION
10/16/03	5 Added References, Callouts; Relocated Street Light; Revised Notes, References, "Prime Coat" and "Base Course" Callout, NBW-2, NBW-3 and CBW-5.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
INTERSTATE ROUTE H-1

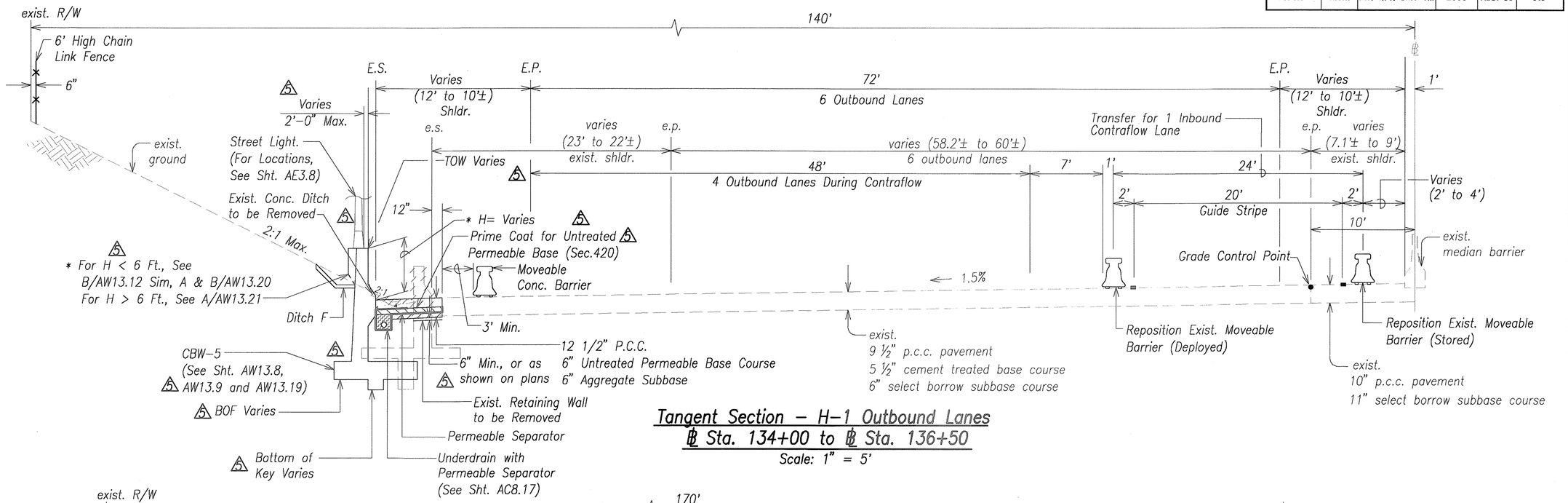
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.8 OF 350 SHEETS

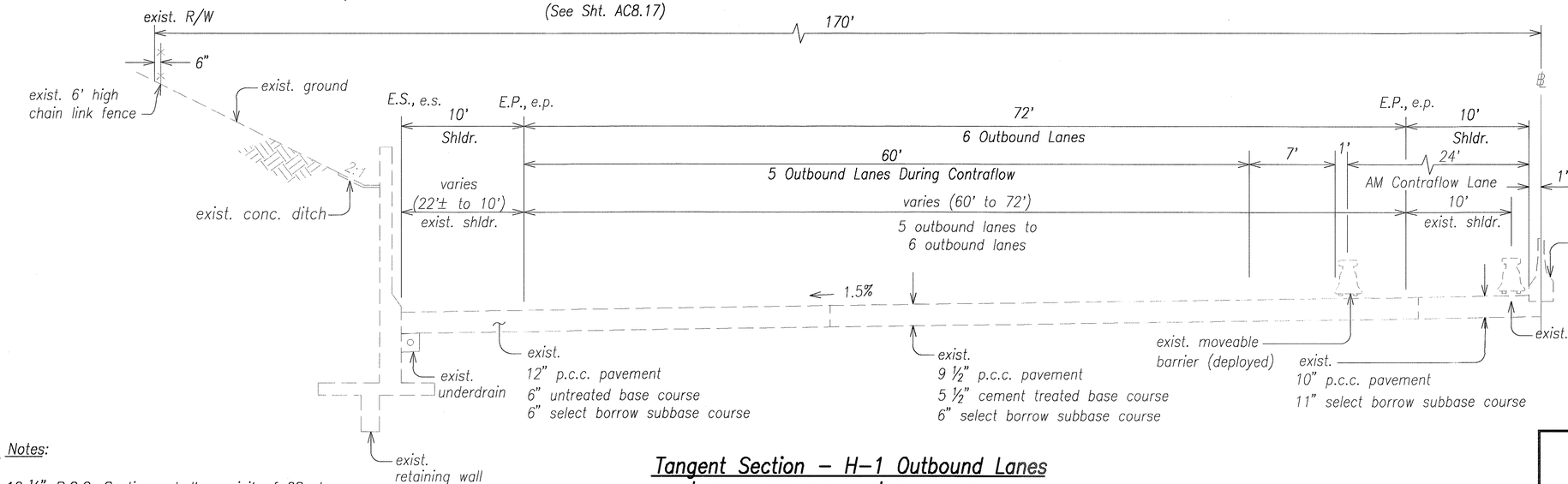
RMTC JOB NO.: 1-19369-0E

ADD. 32

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 33	816



Tangent Section – H-1 Outbound Lanes
℄ Sta. 134+00 to ℄ Sta. 136+50
Scale: 1" = 5'



Tangent Section – H-1 Outbound Lanes
℄ Sta. 136+50 to ℄ Sta. 143+65
Scale: 1" = 5'

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Notes:

1. 12 ½" P.C.C. Sections shall consisit of 28-day, 650-psi min. flexural strength concrete.
2. Site structure wall configurations shown on are schematic only. Refer to sheets AW0.1 through AW18.1 for site structure wall locations, configurations, structure excavation and structure backfill pay limits.

Graphic Scale
1" = 5' 5' 2.5' 0 5' 10'
Scale in Feet

DATE	REVISION
10/16/03	5 Added References and Callouts; Relocated Street Light; Revised Notes, "Prime Coat" Callout, Reference and CBW-5.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
INTERSTATE ROUTE H-1

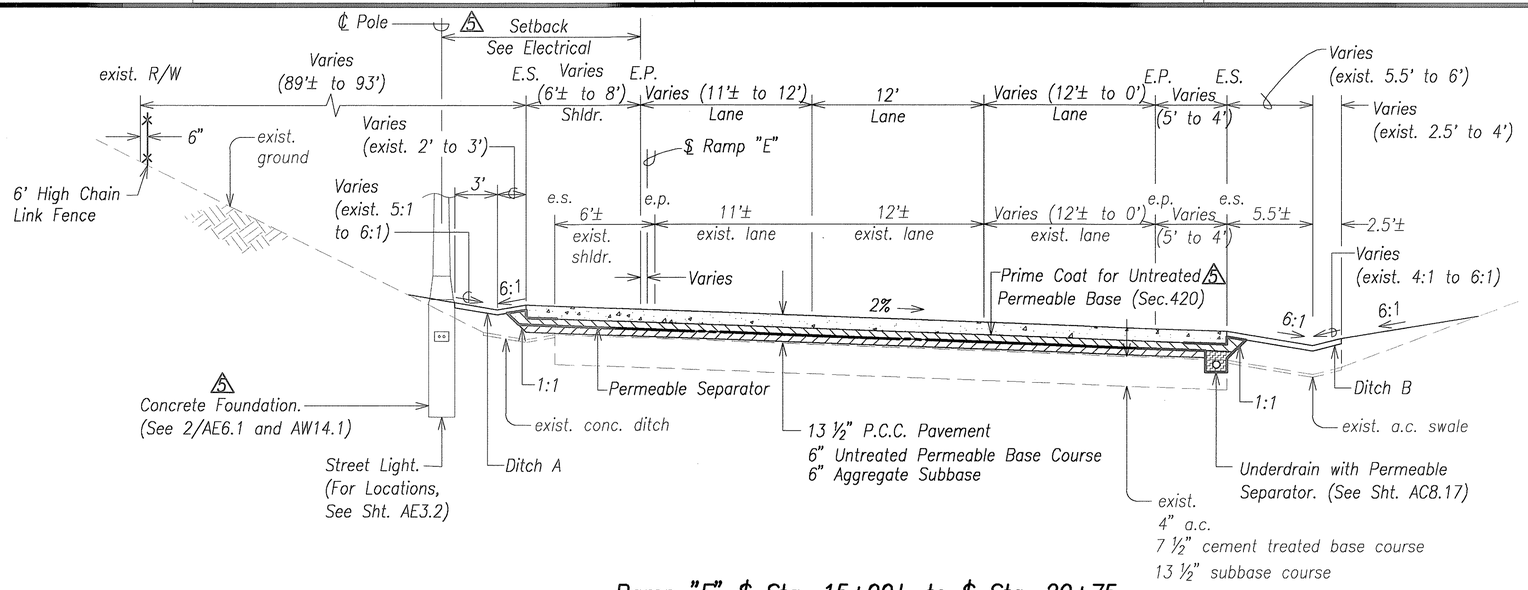
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.9 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 33

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 34	816

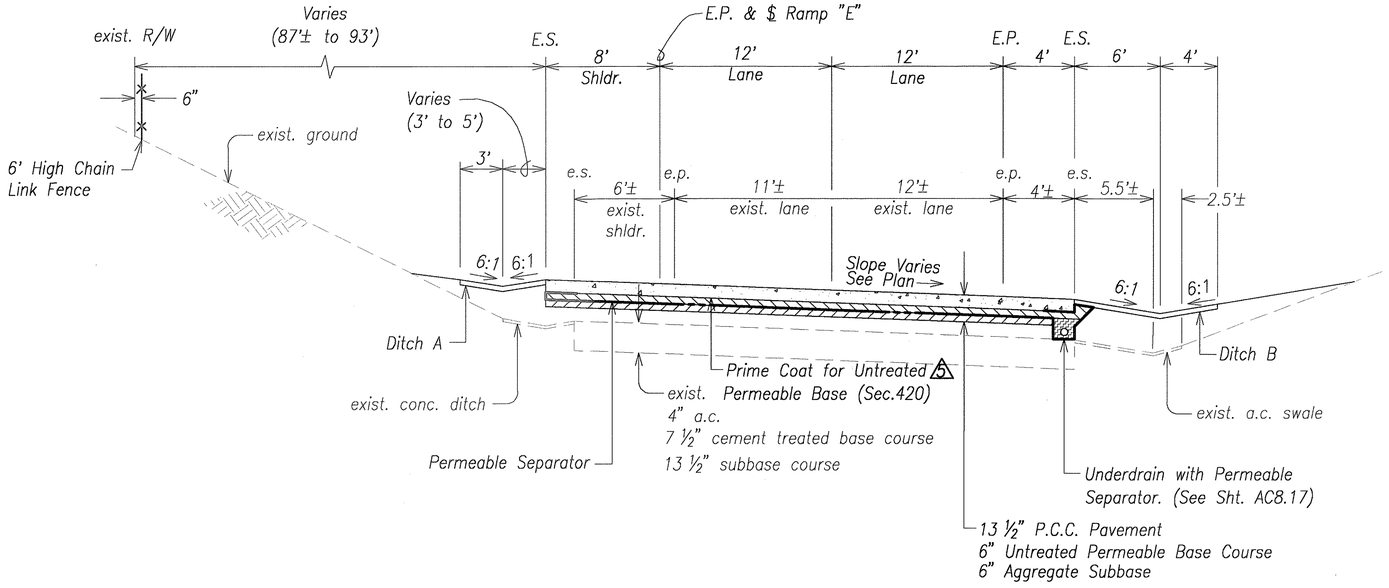


Ramp "E" ℄ Sta. 15+99± to ℄ Sta. 20+75

Scale: 1" = 5'

Note:

13 ½" P.C.C. Sections shall consisit of 12-hr, 450-psi min. flexural strength concrete.



Ramp "E" ℄ Sta. 20+75 to ℄ Sta. 21+47.6

Scale: 1" = 5'

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'

Scale in Feet

DATE	REVISION
10/16/03	5 Added References and Callouts; Revised "Prime Coat" Callouts.

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

INTERSTATE ROUTE H-1

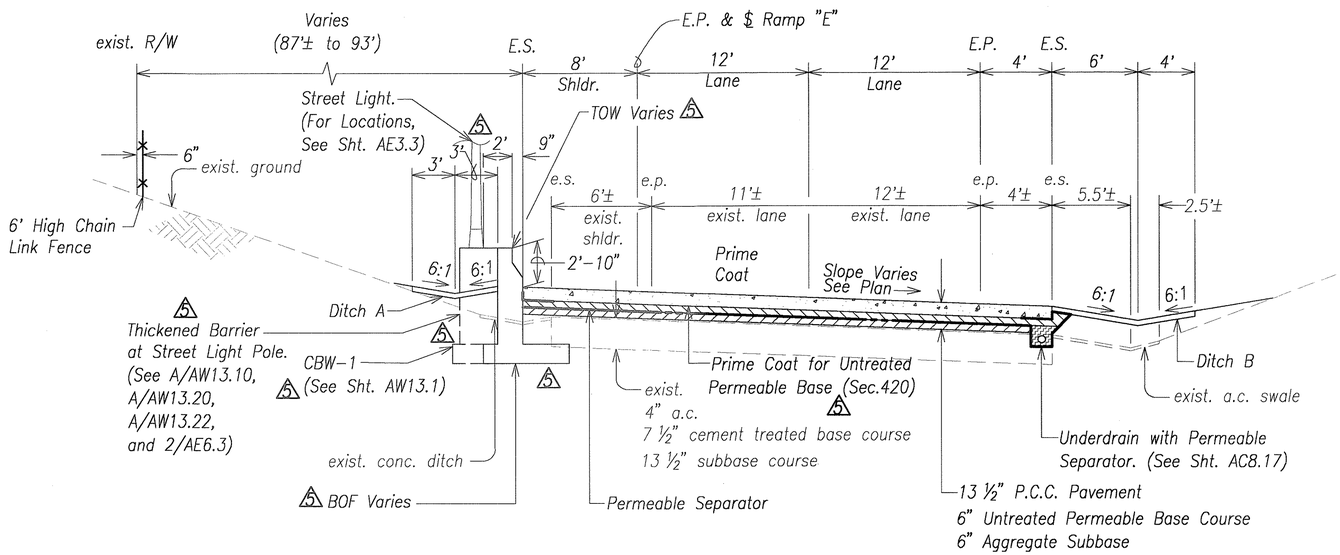
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

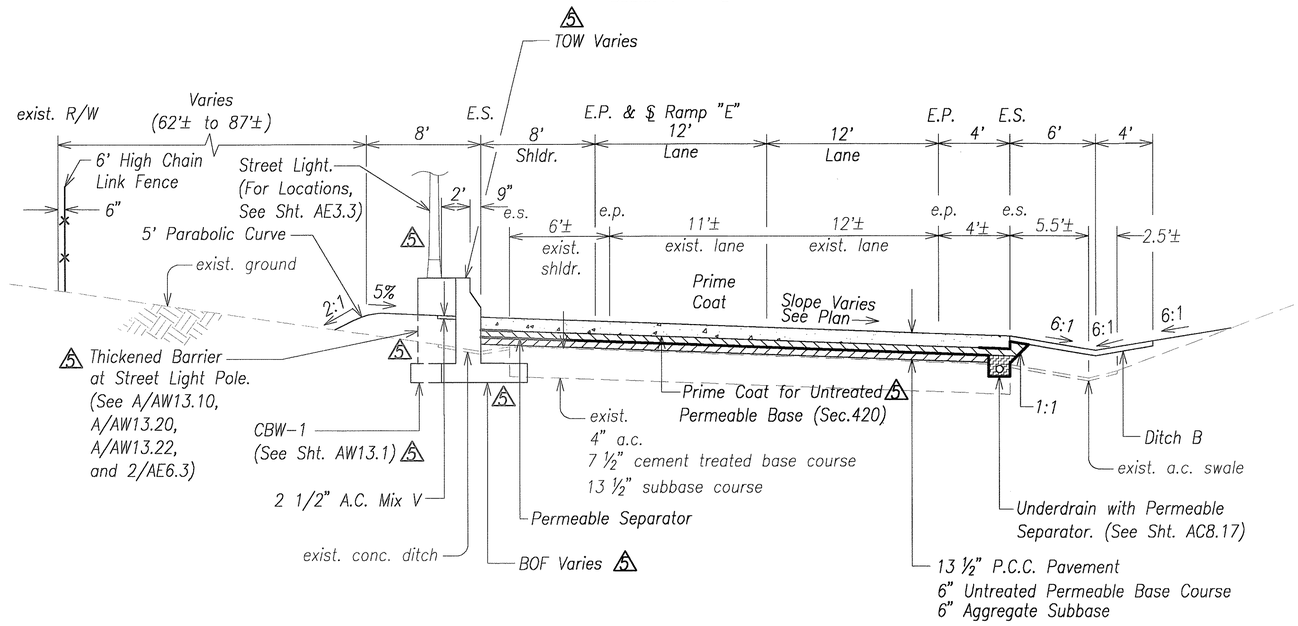
ADD. 34

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 35	816



Ramp "E" ℄ Sta. 21+47.6 to ℄ Sta. 22+00

Scale: 1" = 5'



Ramp "E" ℄ Sta. 22+00 to ℄ Sta. 23+48.6±

Scale: 1" = 5'

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'

Scale in Feet

△5 Notes:

1. 13 ½" P.C.C. Sections shall consisit of 12-hr, 450-psi min. flexural strength concrete.
2. Site structure wall configurations shown on are schematic only. Refer to sheets AW0.1 through AW18.1 for site structure wall locations, configurations, structure excavation and structure backfill pay limits.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/16/03	△5 Added References, Callouts and Thickened Barrier; Relocated Street Light; Revised Notes, "Prime Coat" Callouts, References and CBW-1.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

INTERSTATE ROUTE H-1

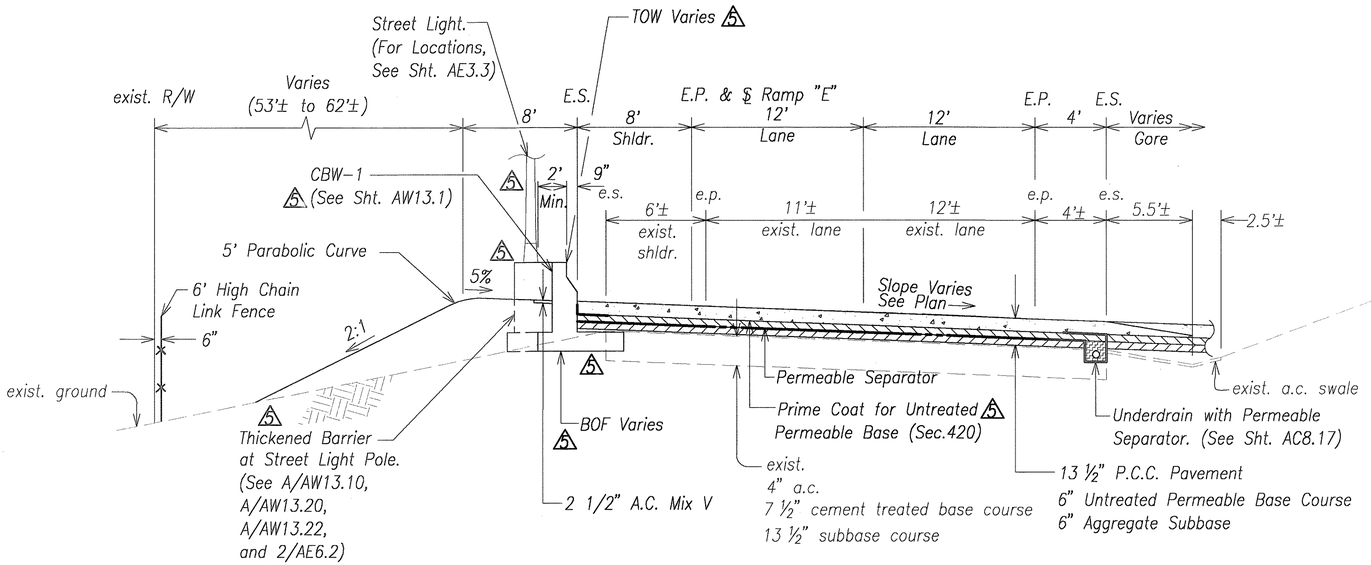
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.11 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

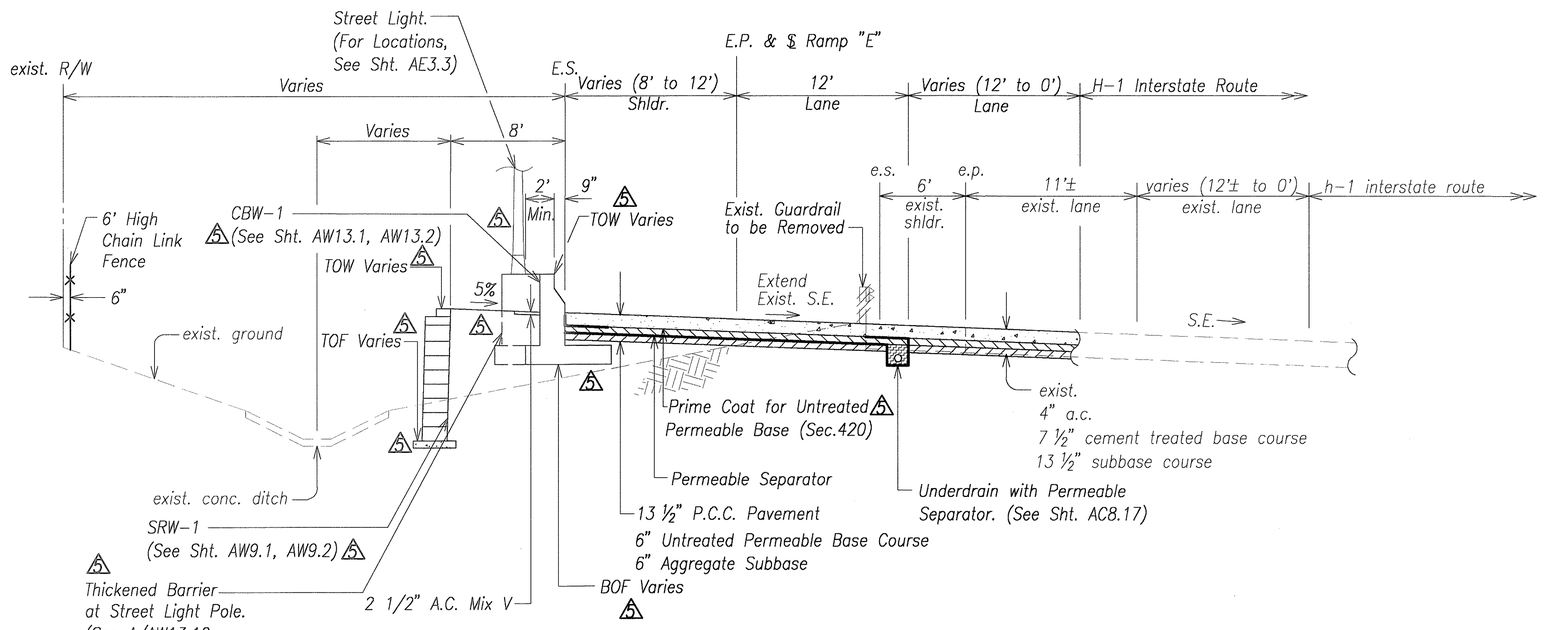
ADD. 35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 36	816



Ramp "E" ℄ Sta. 23+48.6 to ℄ Sta. 24+00

Scale: 1" = 5'



Ramp "E" ℄ Sta. 24+00 to ℄ Sta. 27+58.88 (= ℄ Sta. 88+70.5)

Scale: 1" = 5'

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'

Scale in Feet

5 Notes:

1. 13 ½" P.C.C. Sections shall consisit of 12-hr, 450-psi min. flexural strength concrete.
2. Site structure wall configurations shown on are schematic only. Refer to sheets AW0.1 through AW18.1 for site structure wall locations, configurations, structure excavation and structure backfill pay limits.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

ORIGINAL PLANS | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | NOTE BOOK | No.

DATE	REVISION
10/16/03	5 Added References, Callouts and Thickened Barrier; Relocated Street Light; Revised Notes, "Prime Coat" Callouts, References, CBW-1, and SRW-1.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

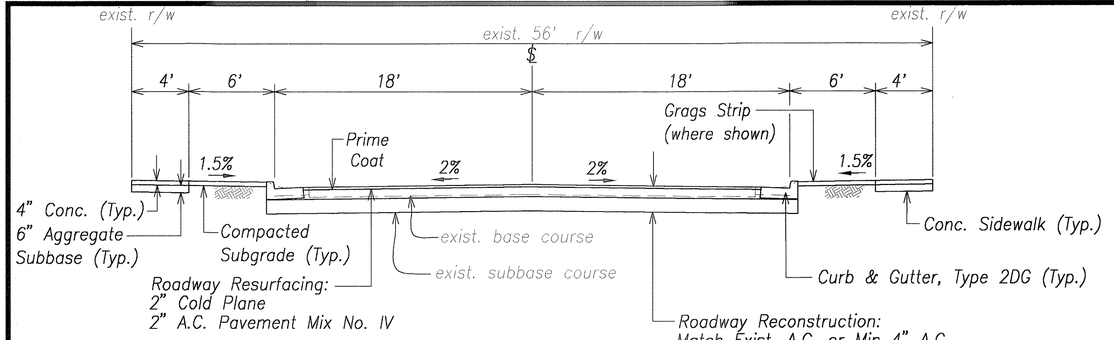
Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.12 OF 350 SHEETS

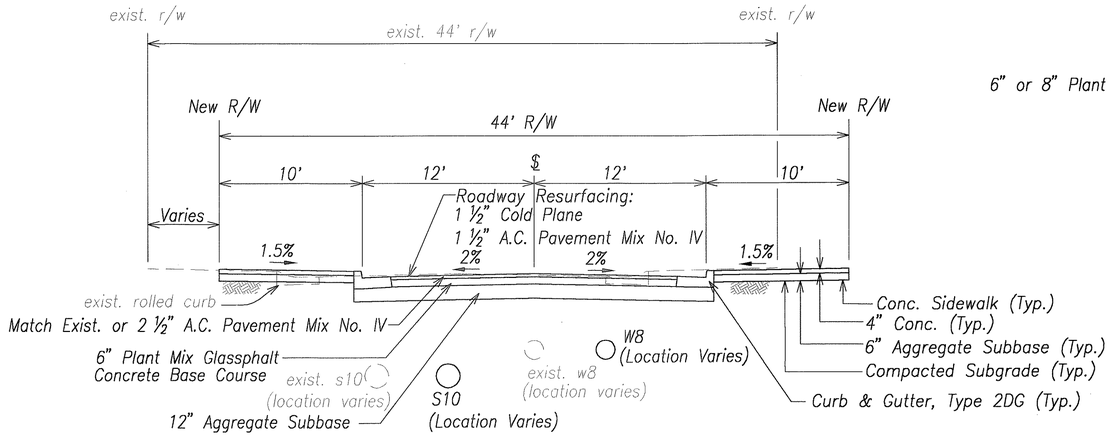
RMTC JOB NO.: 1-19369-0E

ADD. 36

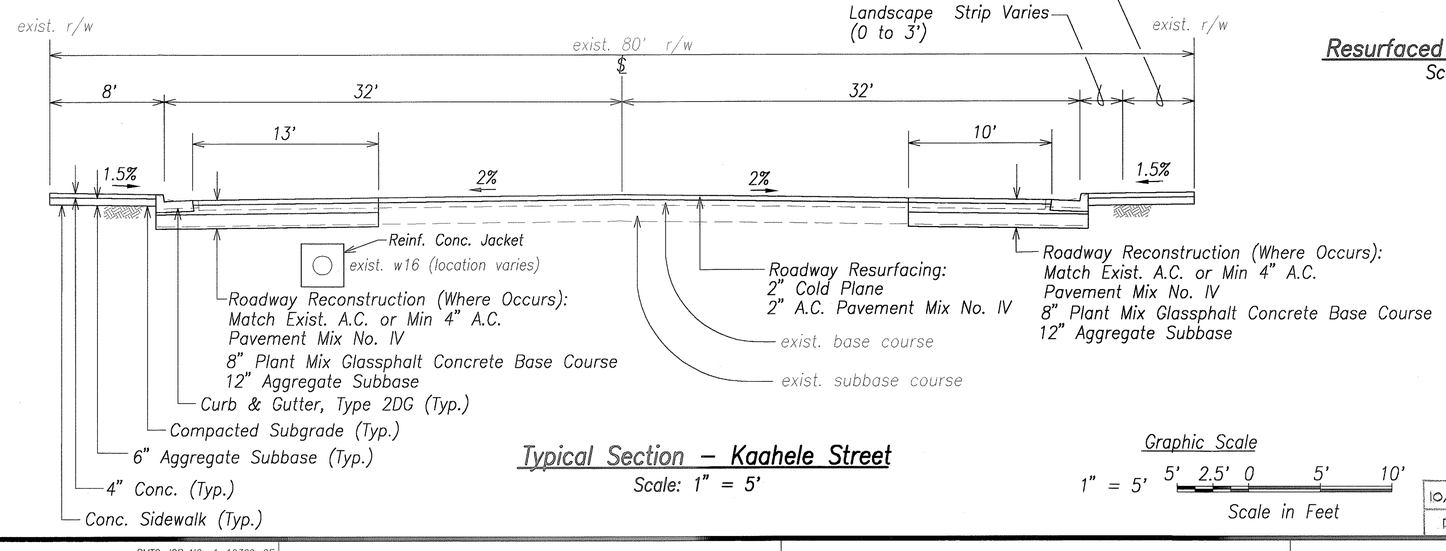
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 37	816



Typical Section – Pono Street
Scale: 1" = 5'



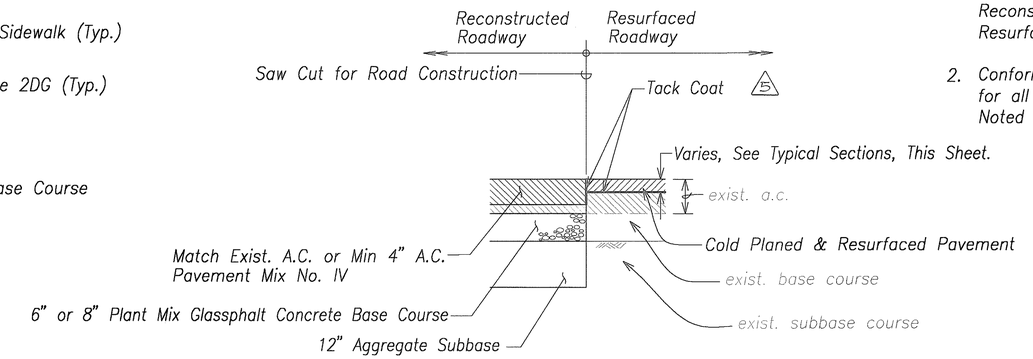
Typical Section – Ponohale Street Realignment
Scale: 1" = 5'



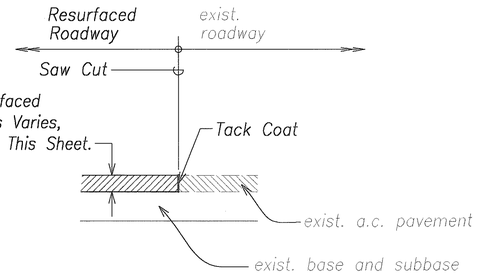
Typical Section – Kaahele Street
Scale: 1" = 5'

Notes:

1. Limits of Roadway Reconstruction And Resurfacing Shown on Plans
2. Conform to State Standards for all Work Unless Otherwise Noted



Reconstructed Pavement Connection
Scale: Not To Scale



Resurfaced Pavement Connection
Scale: Not To Scale

APPROVED: 5

M. [signature] 7/18/03
Chief, Civil Engineering Branch, DPP HWY Date

[signature] 7/8/03
Principal Executive Date
Maintenance Unit, BWS∞

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

[signature] April 30, 2004
SIGNATURE 7/8/03 EXPIRATION DATE OF THE LICENSE

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

Graphic Scale
1" = 5' 5' 2.5' 0 5' 10'
Scale in Feet

DATE	REVISON
10/16/03	3 OBTAINED CITY APPROVALS; REVISED "RECONSTRUCTED PAVEMENT CONNECTION" DETAIL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
PONO & PONOHALE STREETS

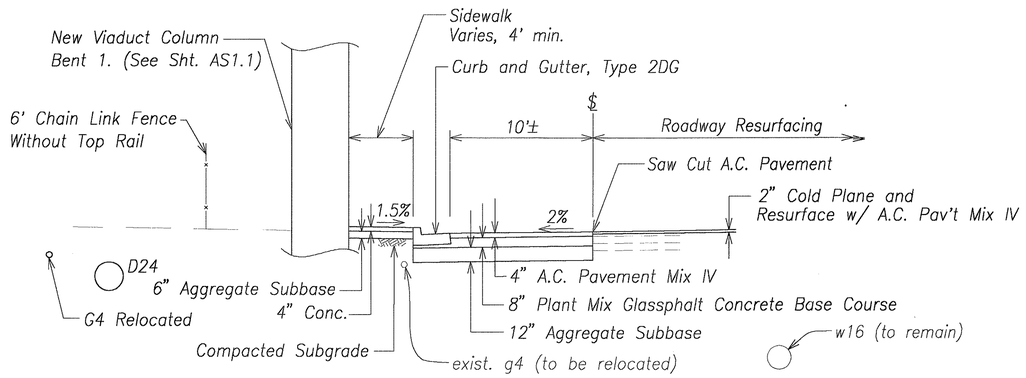
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC1.13 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

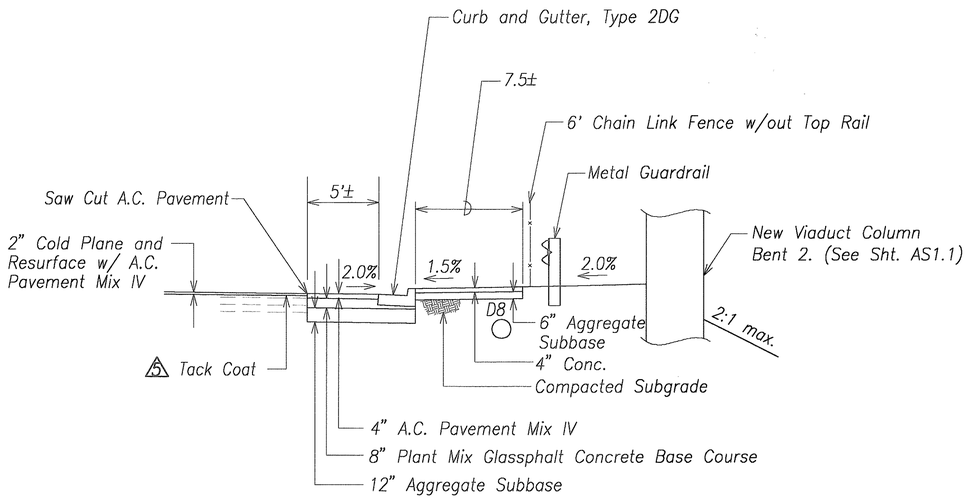
ADD. 37

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 38	816



Typical Section – Kaahele Street at Bent 1

Scale: 1" = 5'



Typical Section – Kaahele Street at Bent 2

Scale: 1" = 5'

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

RMTC JOB NO.: 1-19369-OE

5

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE Pages. EXPIRATION DATE OF THE LICENSE

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised Callout; Removed City Approval Block.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

KAAHELE STREET

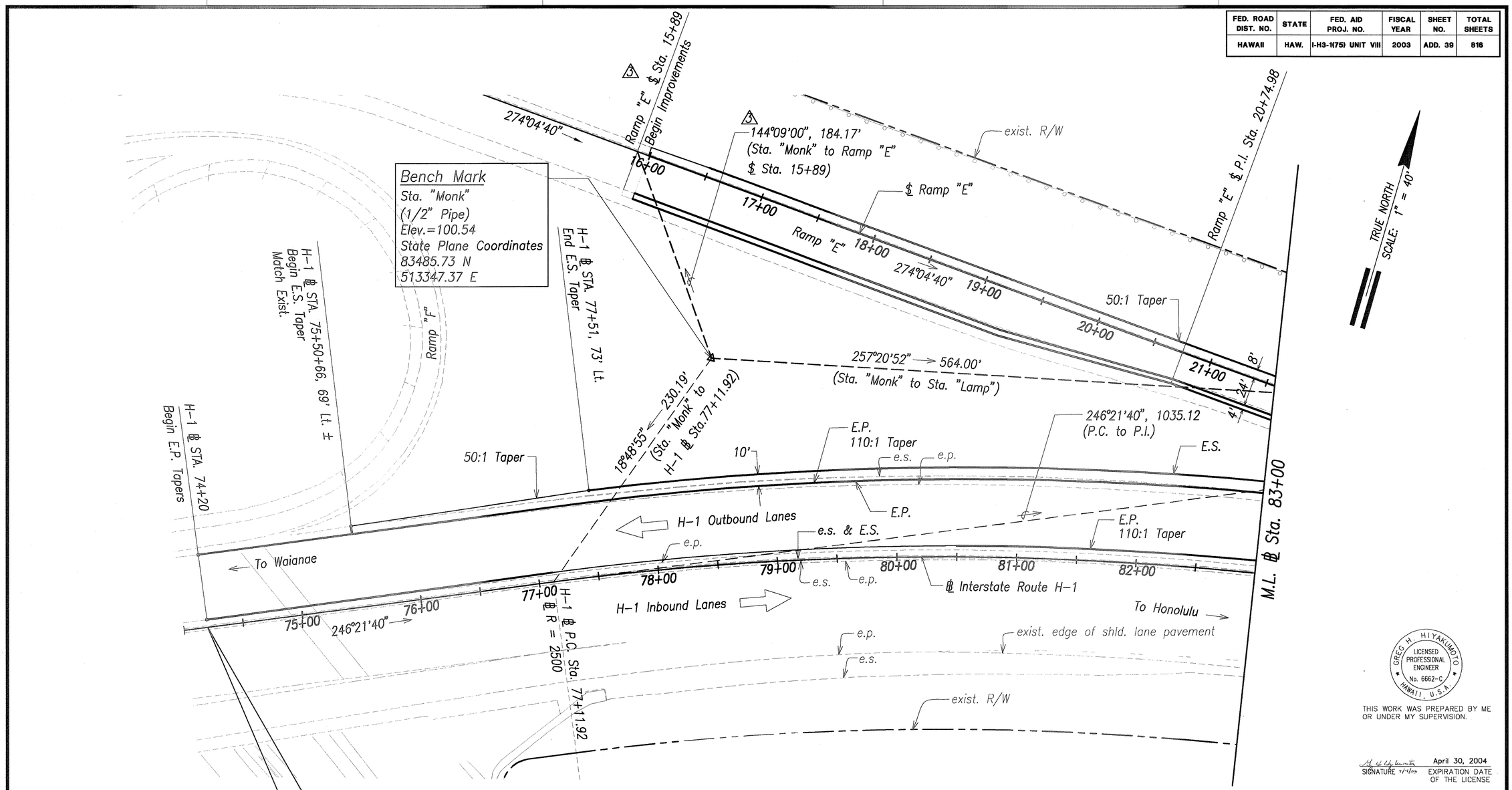
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=5' Date: Mar. 31, 2003

SHEET No. AC1.14 OF 350 SHEETS

ADD. 38

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 39	816



BEGIN PROJECT
Project No. I-H3-1(75) UNIT VIII
Interstate Route H-1 ℄ STA. 74+20

H-1 ℄ Curve Data

△ = 44°59'00"
R = 2500.00'
T = 1035.12'
C = 1912.75'
Lc = 1962.77'

Graphic Scale

1" = 40' 40' 20' 0 40' 80'
Scale in Feet

DATE	REVISION
6/20/03	⚠3 Revised Beginning of Ramp "E" Improvements.

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN
℄ STA. 74+20± TO ℄ STA. 83+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC2.1 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 39

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 40	816

Bench Mark
Sta. "Lamp"
(1/2" Pipe)
Elev.=105.06
State Plane Coordinates
83609.26 N
513897.68 E

Bench Mark
Sta. "Bottom"
(1/2" Pipe)
Elev.=98.59
State Plane Coordinates
83581.67 N
514370.73 E

Bench Mark
Sta. "Kaa1"
(1/2" Pipe)
Elev.=114.84
State Plane Coordinates
83542.26 N
514808.11 E

TRUE NORTH
SCALE: 1" = 40'

257°20'52", 564.00'
(Sta. "Monk" to Sta. "Lamp")

△3 Ramp "E" ℄ P.C. Sta. 22+69.62
R = 12,000'

273°20'17", 473.85'
(Sta. "Lamp" to Sta. "Bottom")

△3 Ramp "E" ℄ P.T. Sta. 25+13.75
R = 12,000'

△3 Ramp "E" ℄ Sta. 25+58.76, 8' Lt.
Begin E.S. Taper

H-1 ℄ P.I.

273°29'42" → 244.12'
(P.C. TO P.T.) △3

246°21'40" → 1035.12
(P.C. TO P.I.)

291°20'40" → 1035.12
(P.I. TO P.T.)

△3 272°54'44", 245.13'
(P.T. To End Ramp "E")

H-1 ℄ Sta. 88+50, 13' Lt. 2nd 73' Lt.
End Projected E.P. Taper

H-1 ℄ Sta. 88+70.43, 85' Lt. 2nd 97' Lt.
= End Ramp "E" ℄ Sta. 27+58.88
End E.S. Taper

275°08'56", 439.15'
(Sta. "Bottom" to Sta. "Kaa1")

282°02'53", 388.32'
(Sta. "Kaa1" to Sta. "Kaa")

℄ Ramp "E"
e.p.
e.s.
E.S. 50:1 Taper
exist. R/W
E.P.
22+00
23+00
24+00
25+00
26+00
27+00
27+58.88
8'
12'
12'
12'
274°04'40"
10'
4'
R=4'
E.S.
E.P. 110:1 Taper
To Waianae
Projected E.P.
301°46'30" → 42.54' △3
(Sta. "Bottom" to Ramp "E" ℄ Sta. 27+58.88)
H-1 Outbound Lanes
E.P.
e.s. & E.S.
84+00
85+00
86+00
87+00
88+00
89+00
90+00
91+00
92+00
℄ Interstate Route H-1
exist. edge of shld. lane pavement
H-1 Inbound Lanes
To Honolulu
13'
72'
M.L. ℄ Sta. 83+00
M.L. ℄ Sta. 93+00
exist. R/W

H-1 ℄ Curve Data
△ = 44°59'00"
R = 2500.00'
T = 1035.12'
C = 1912.75'
Lc = 1962.77'

△3 Ramp "E" ℄ Curve Data
△ = 01°09'56"
R = 1200.00'
T = 122.07'
C = 244.12'
Lc = 244.13'

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

DATE	REVISION
6/20/03	△3 Added Callouts and Ramp "E" Curve Data; Revised Callouts; Deleted Callouts.

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 4/29/04 April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN
℄ STA. 83+00 TO ℄ STA. 93+00

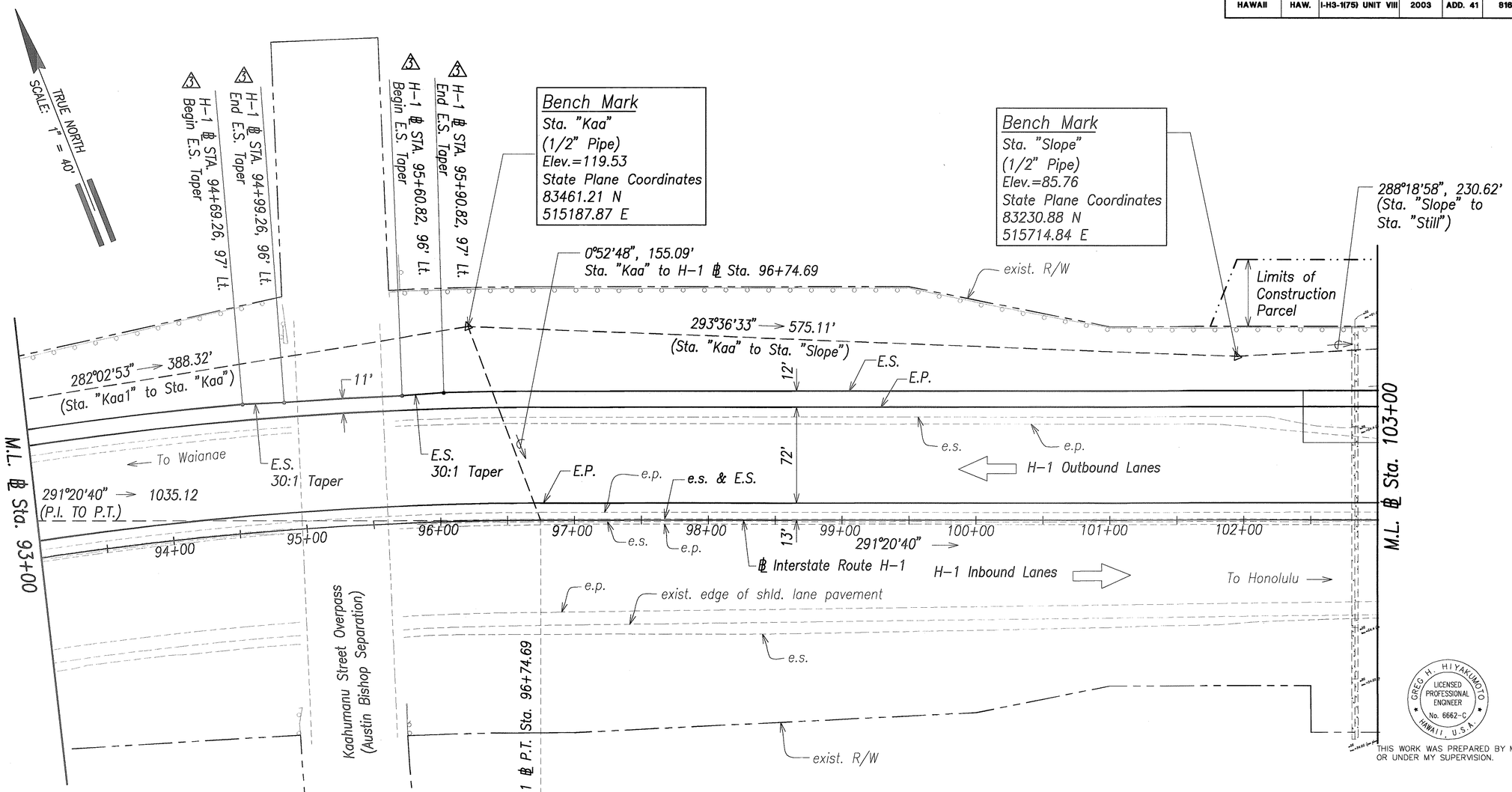
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC2.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 40

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 41	816



Note:

For Limits of Construction Parcel, see Shts. AC12.1 & AC12.2

H-1 ℄ Curve Data

△ = 44°59'00"
R = 2500.00
T = 1035.12
C = 1912.75
Lc = 1962.77

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN

℄ STA. 93+00 TO ℄ STA. 103+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

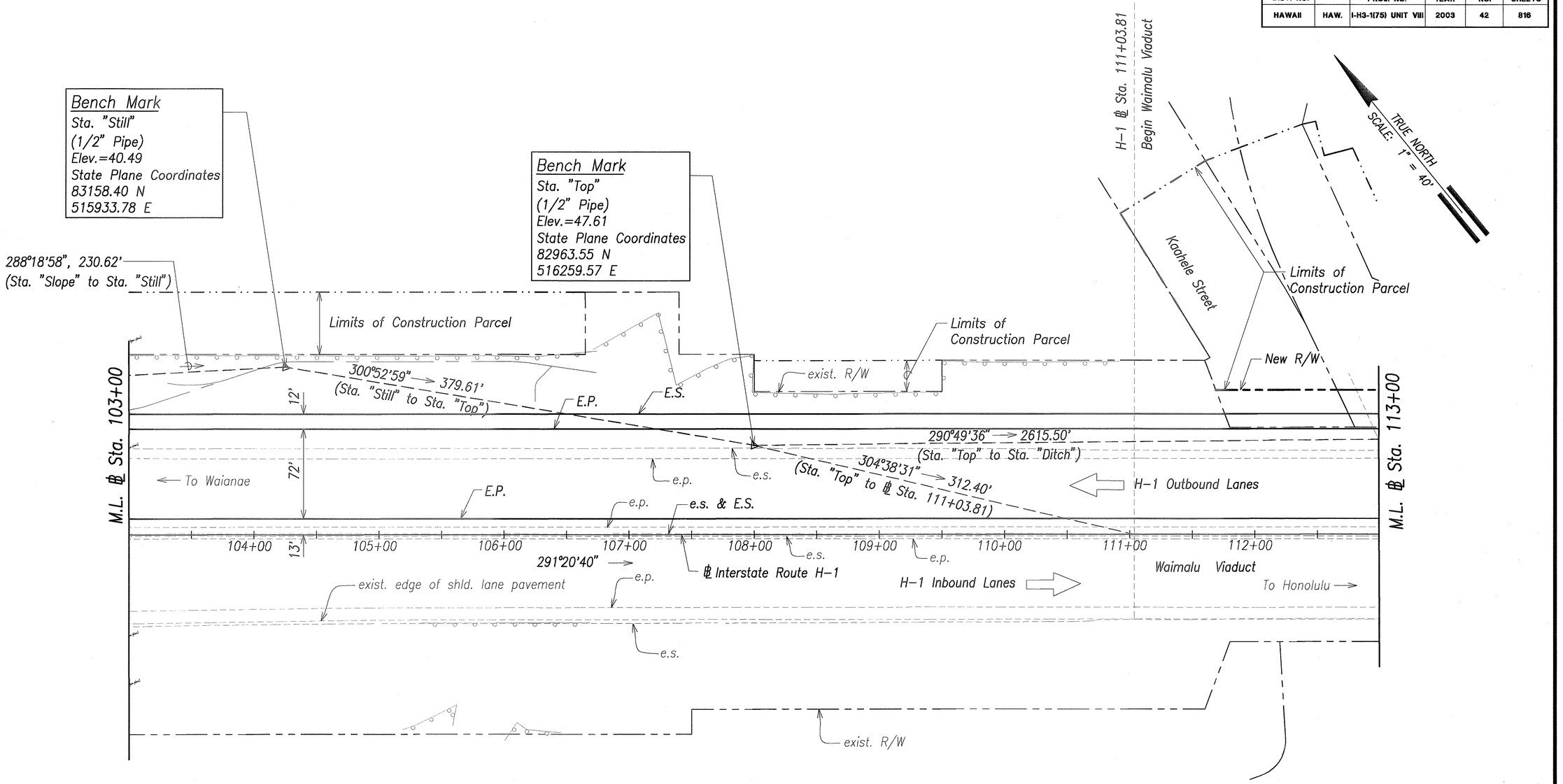
SHEET No. AC2.3 OF 350 SHEETS

6/20/03	⚠3 Revised E.S. and Callouts.
DATE	REVISION

RMTC JOB NO.: 1-19369-0E

ADD. 41

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	42	816



Note:

For Limits of Construction Parcel, see Shts. AC12.1 & AC12.2

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN

℄ STA. 103+00 TO ℄ STA. 113+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

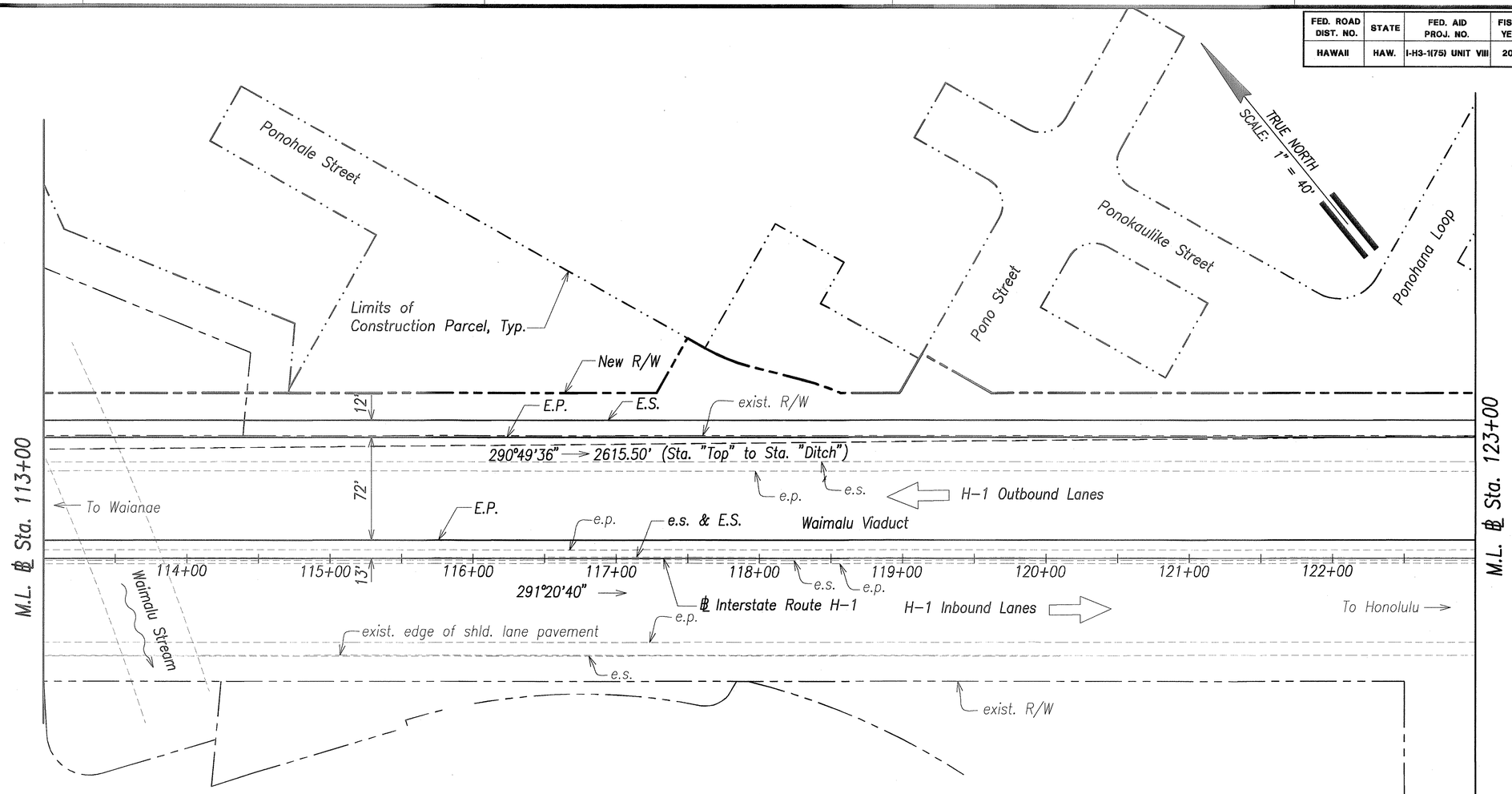
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC2.4 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	43	816



Note:

For Limits of Construction Parcel, see Shts. AC12.1 & AC12.2

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

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN

℄ STA. 113+00 TO ℄ STA. 123+00

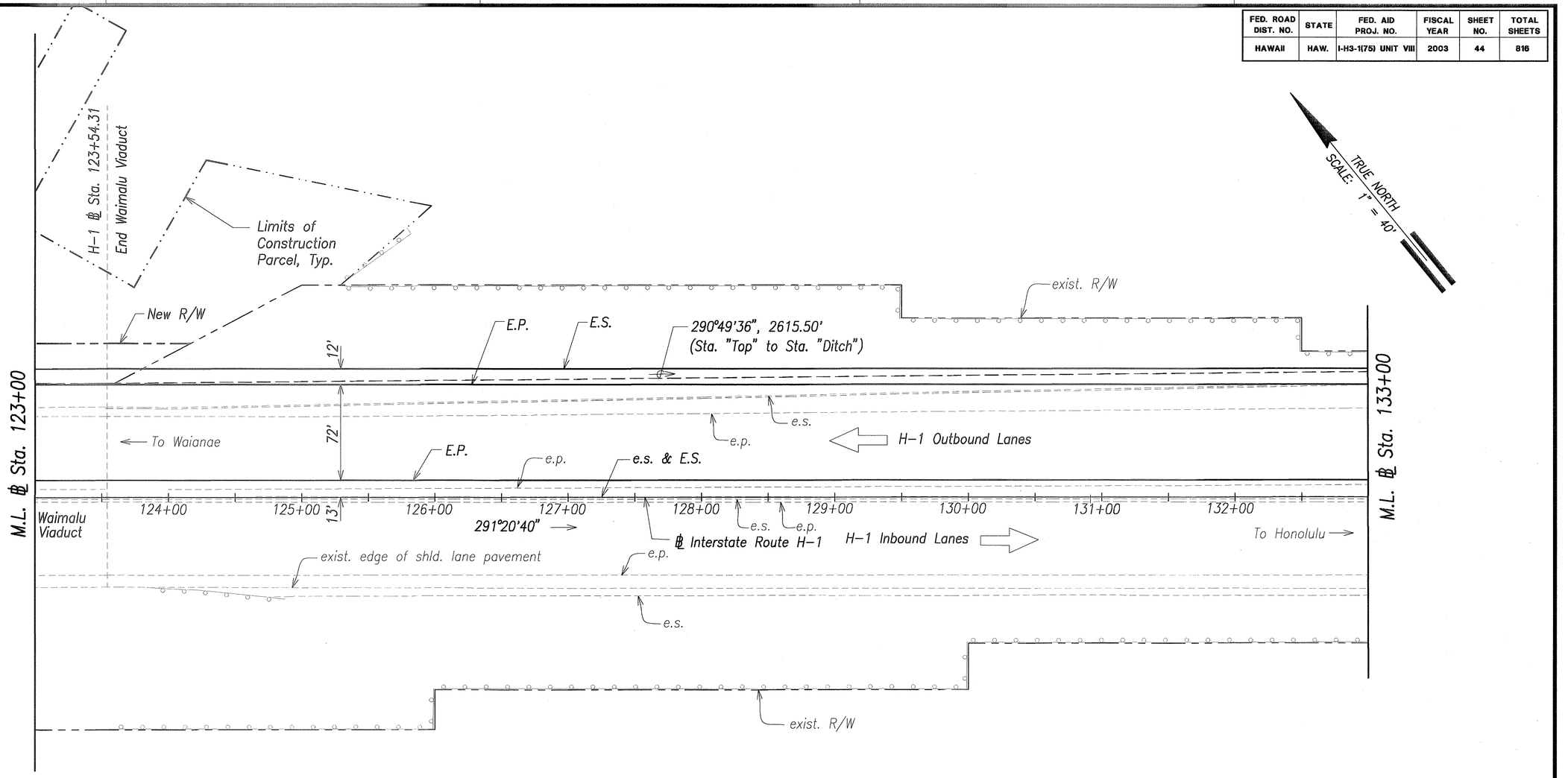
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC2.5 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	44	816



Note:

For Limits of Construction Parcel, see Shts. AC12.1 & AC12.2

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

ORIGINAL PLAN
NOTE BOOK No.

SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN

℄ STA. 123+00 TO ℄ STA. 133+00

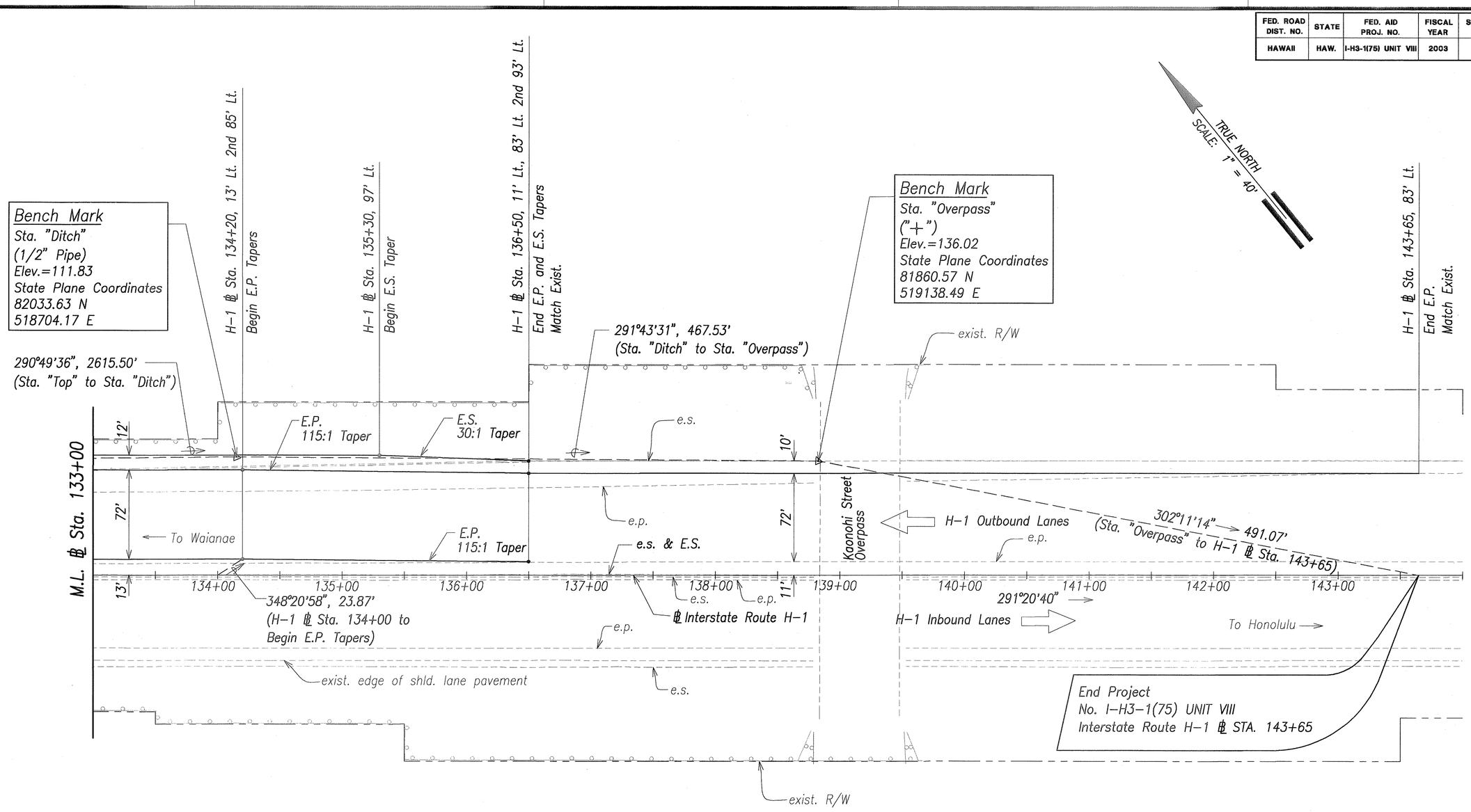
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC2.6 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HS-1(75) UNIT VIII	2003	45	816



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

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN

℄ STA. 133+00 TO ℄ STA. 144+00

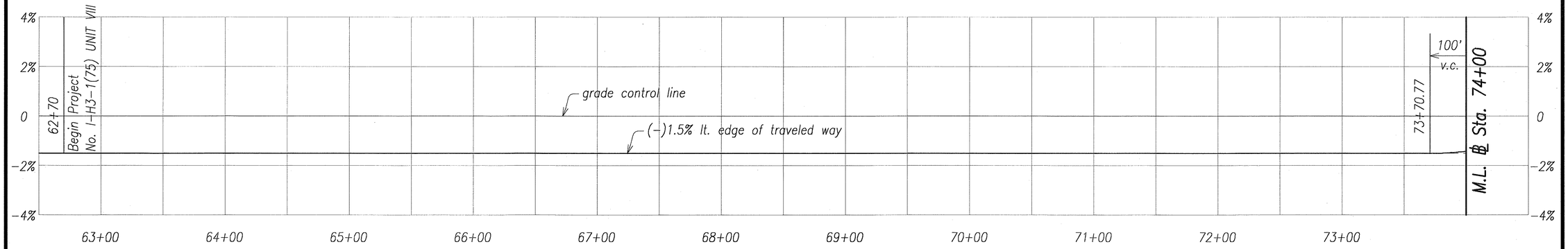
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC2.7 OF 350 SHEETS

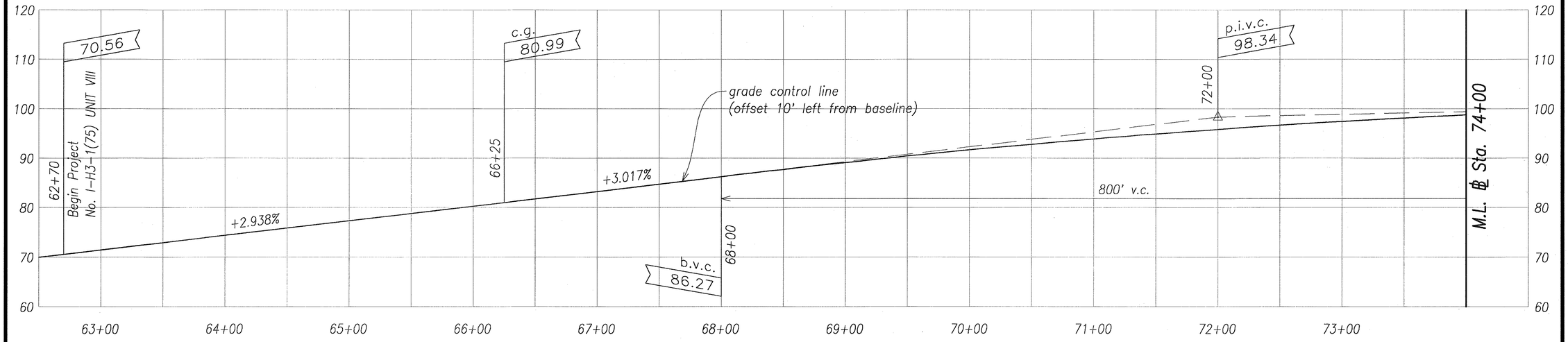
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	46	816



Superelevation Diagram – Interstate Route H-1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 2%



Profile – Interstate Route H-1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'

FOR REFERENCE ONLY

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

Graphic Scale

1" = 10' 10' 5' 0 10' 20'
Scale in Feet

1" = 40' 40' 20' 0 40' 80'
Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE & SUPERELEVATION DIAGRAM

℄ STA. 62+70 TO ℄ STA. 74+00

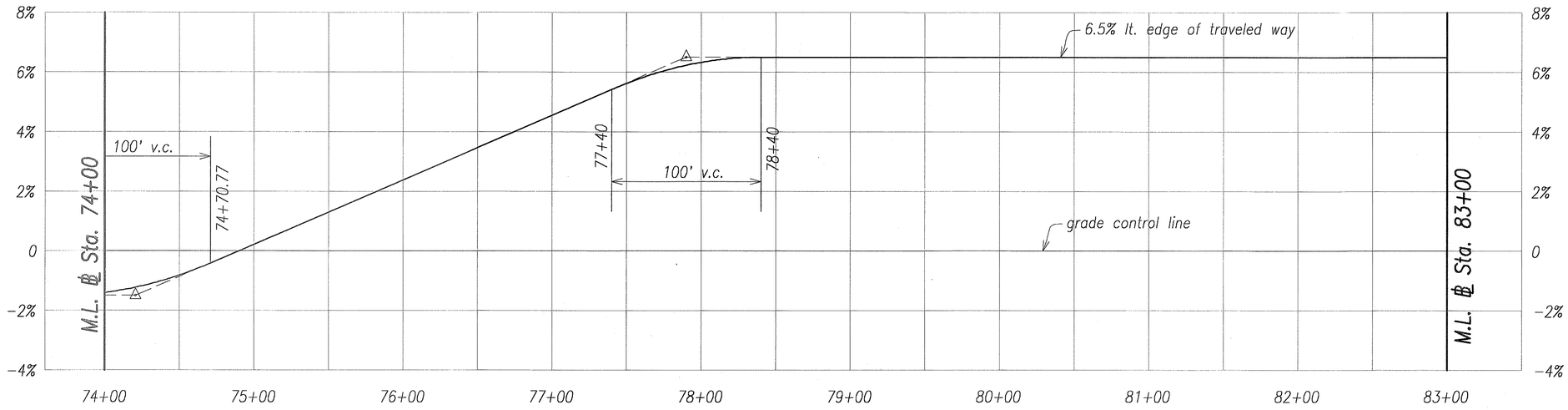
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC3.1 OF 350 SHEETS

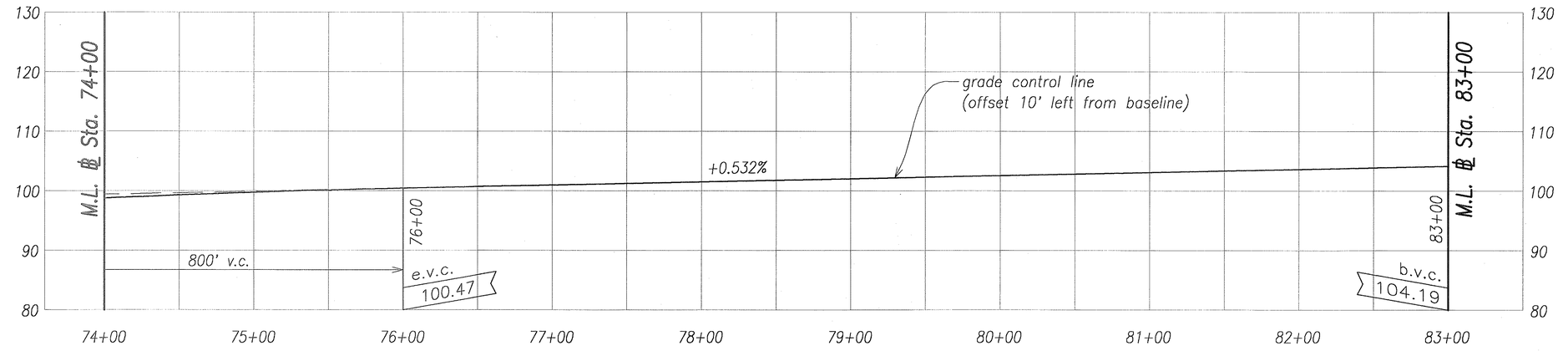
RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	47	816



Superelevation Diagram – Interstate Route H-1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 2%



Profile – Interstate Route H-1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'

FOR REFERENCE ONLY

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

Graphic Scale

1" = 10' 10' 5' 0 10' 20'
Scale in Feet

1" = 40' 40' 20' 0 40' 80'
Scale in Feet

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE & SUPERELEVATION DIAGRAM
℄ STA. 74+00 TO ℄ STA. 83+00

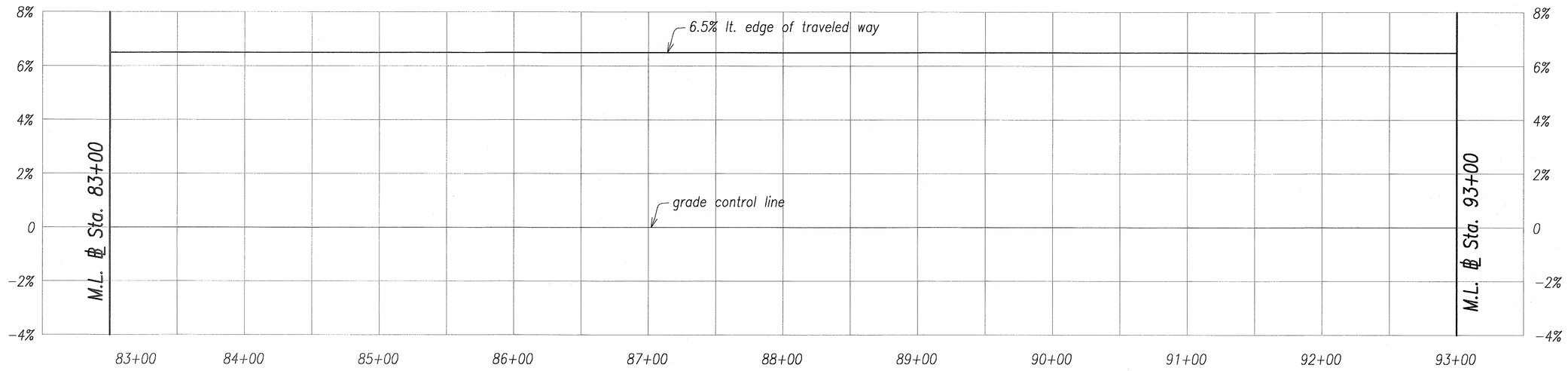
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC3.2 OF 350 SHEETS

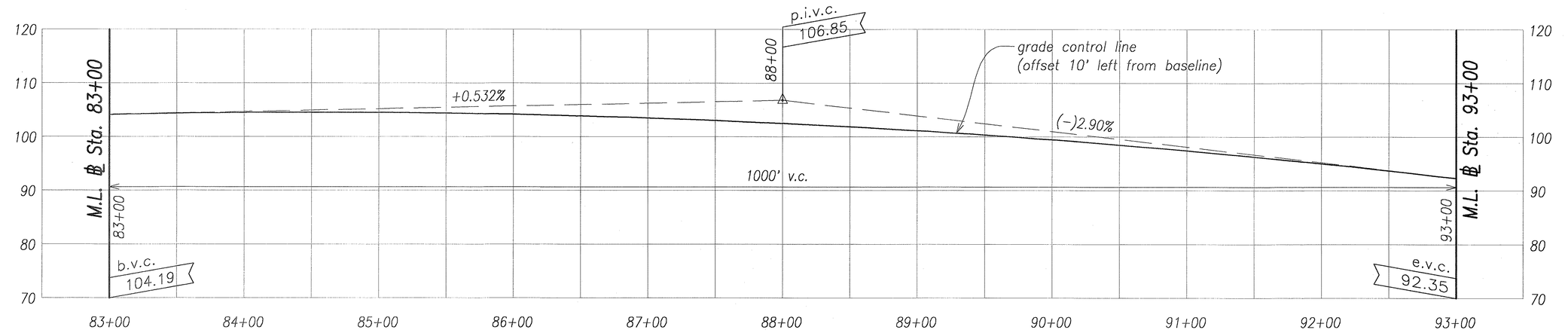
RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	48	816



Superelevation Diagram – Interstate Route H–1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 2%



Profile – Interstate Route H–1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'

FOR REFERENCE ONLY

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

Graphic Scale

1" = 10' — 10' 5' 0 10' 20' — Scale in Feet

1" = 40' — 40' 20' 0 40' 80' — Scale in Feet

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE & SUPERELEVATION DIAGRAM

℄ STA. 83+00 TO ℄ STA. 93+00

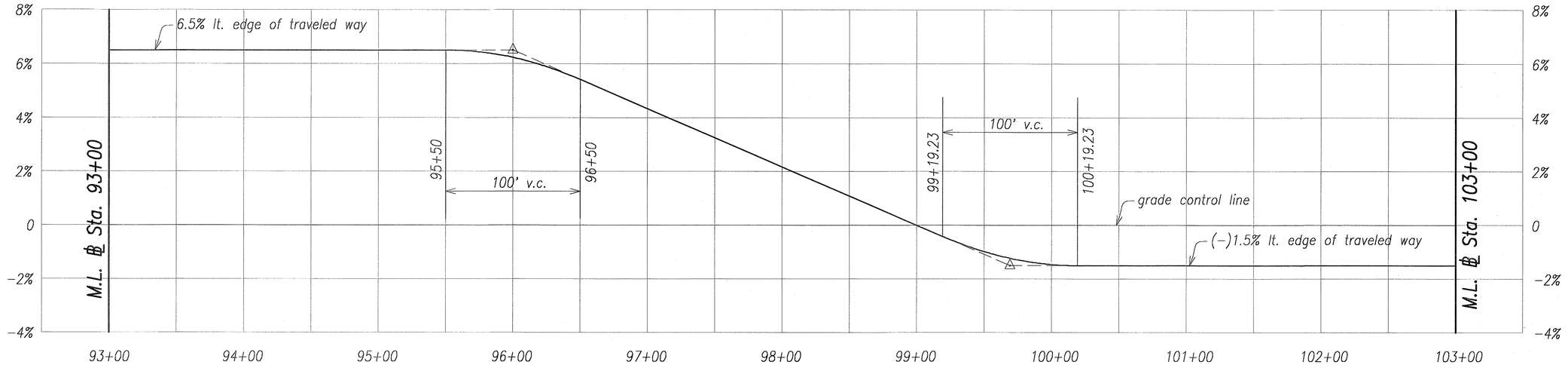
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown — Date: Mar. 31, 2003

SHEET No. AC3.3 OF 350 SHEETS

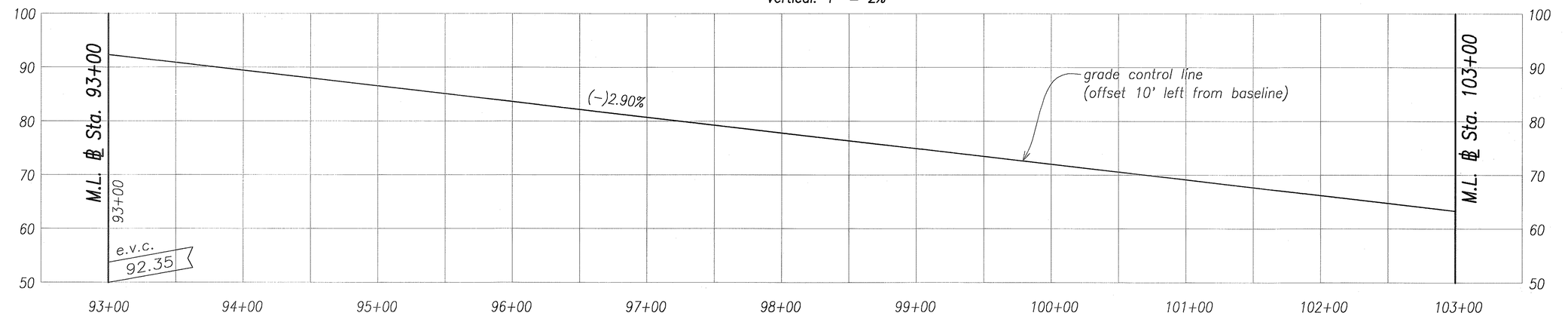
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	49	816



Superelevation Diagram – Interstate Route H–1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 2%



Profile – Interstate Route H–1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'

FOR REFERENCE ONLY

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

Graphic Scale

1" = 10' 10' 5' 0 10' 20'
Scale in Feet

1" = 40' 40' 20' 0 40' 80'
Scale in Feet

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE & SUPERELEVATION DIAGRAM
℄ STA. 93+00 TO ℄ STA. 103+00

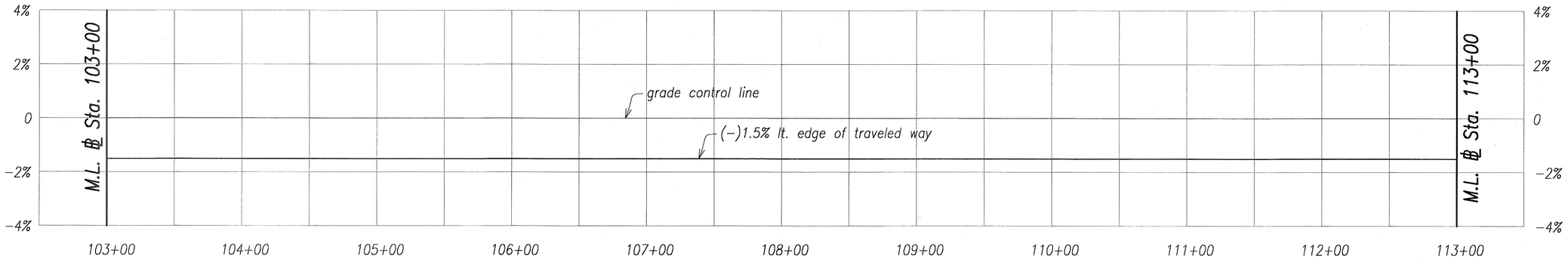
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC3.4 OF 350 SHEETS

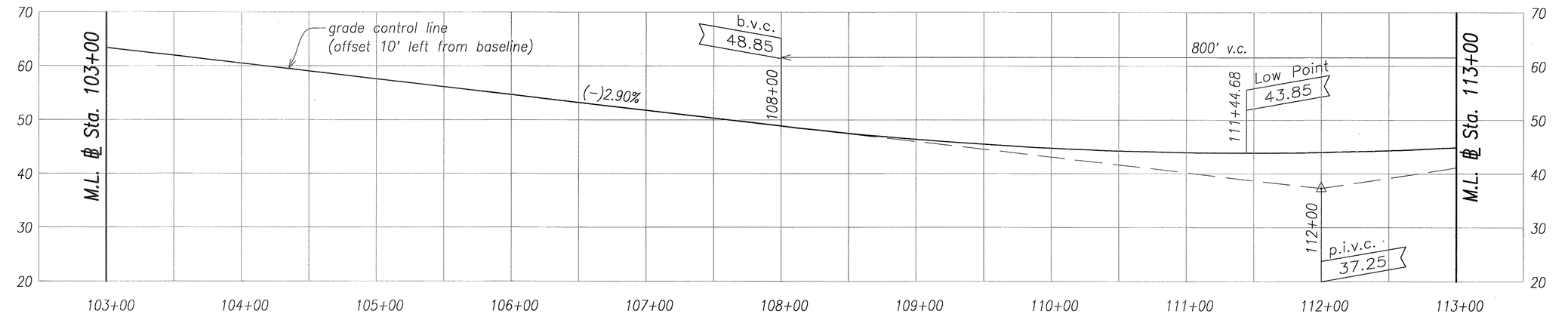
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	50	816



Superelevation Diagram – Interstate Route H–1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 2%



Profile – Interstate Route H–1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'

FOR REFERENCE ONLY

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

Graphic Scale

1" = 10' 10' 5' 0 10' 20'
Scale in Feet

1" = 40' 40' 20' 0 40' 80'
Scale in Feet

GREG H. HIYAKUMOTO
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE & SUPERELEVATION DIAGRAM
℄ STA. 103+00 TO ℄ STA. 113+00

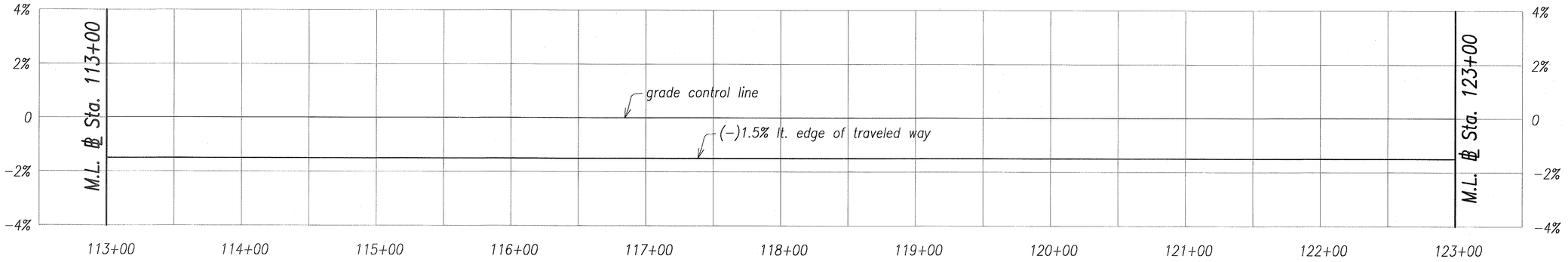
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC3.5 OF 350 SHEETS

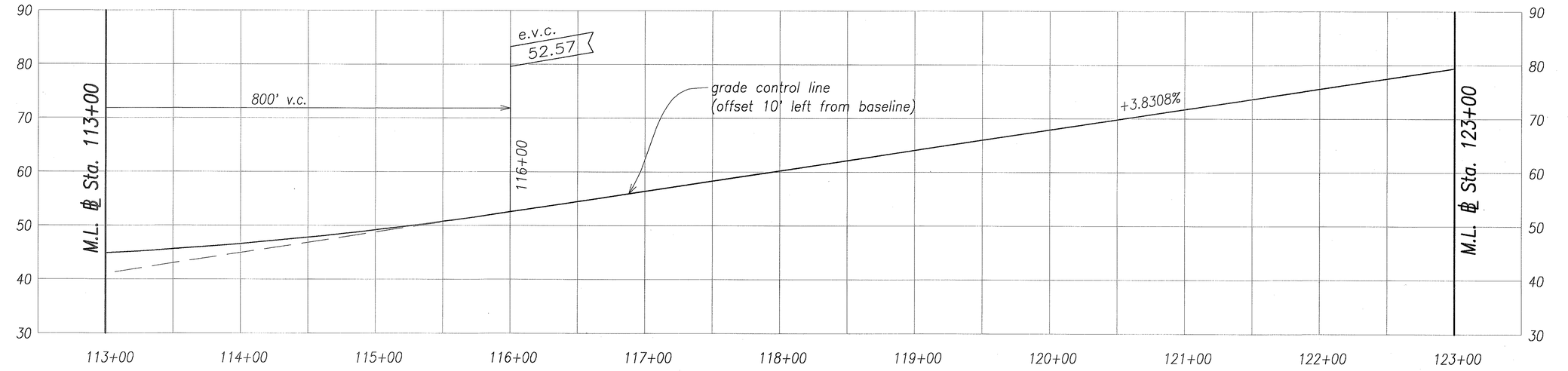
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	51	816



Superelevation Diagram – Interstate Route H-1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 2%



Profile – Interstate Route H-1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'

FOR REFERENCE ONLY

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

Graphic Scale

1" = 10' 10' 5' 0 10' 20'
Scale in Feet

1" = 40' 40' 20' 0 40' 80'
Scale in Feet

GREG H. HIYAKUMOTO
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE & SUPERELEVATION DIAGRAM
℄ STA. 113+00 TO ℄ STA. 123+00

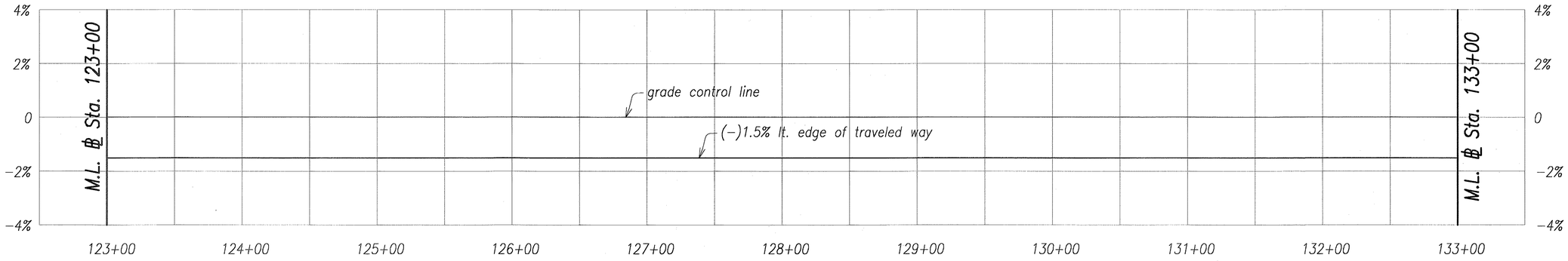
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC3.6 OF 350 SHEETS

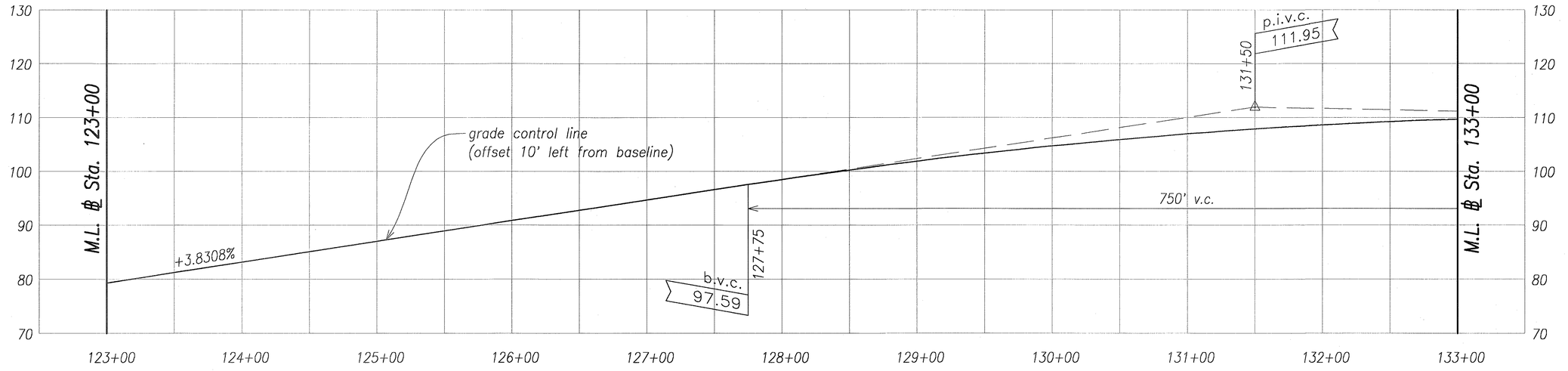
RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	52	816



Superelevation Diagram – Interstate Route H–1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 2%



Profile – Interstate Route H–1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'

FOR REFERENCE ONLY

Graphic Scale

1" = 10' — 10' 5' 0 10' 20' — Scale in Feet

1" = 40' — 40' 20' 0 40' 80' — Scale in Feet

GREG H. HIYAKUMOTO * LICENSED PROFESSIONAL ENGINEER * No. 6662-C * HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE & SUPERELEVATION DIAGRAM
℄ STA. 123+00 TO ℄ STA. 133+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

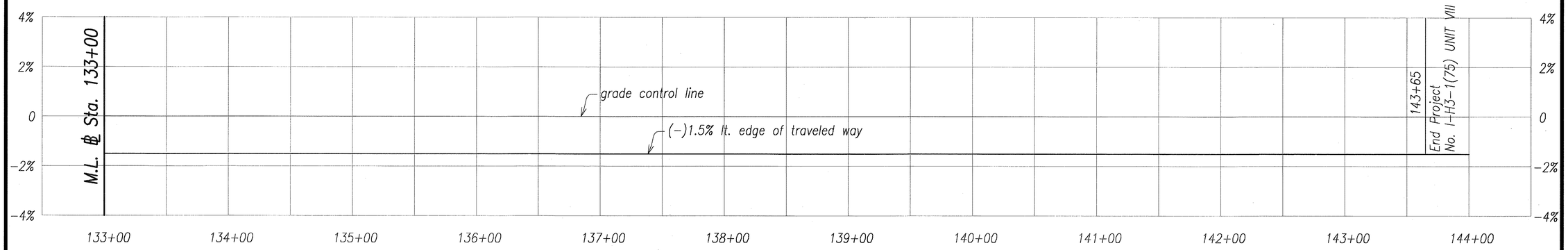
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC3.7 OF 350 SHEETS

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

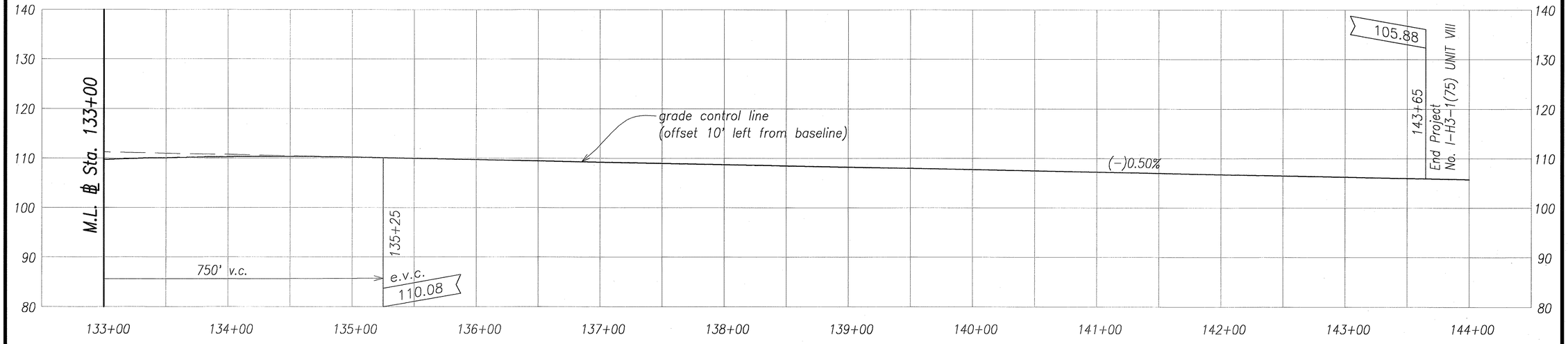
RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	53	816



Superelevation Diagram – Interstate Route H-1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 2%



Profile – Interstate Route H-1 Outbound

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'

FOR REFERENCE ONLY

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

Graphic Scale

1" = 10' 10' 5' 0 10' 20'
Scale in Feet

1" = 40' 40' 20' 0 40' 80'
Scale in Feet

GREG H. HIYAKUMOTO
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

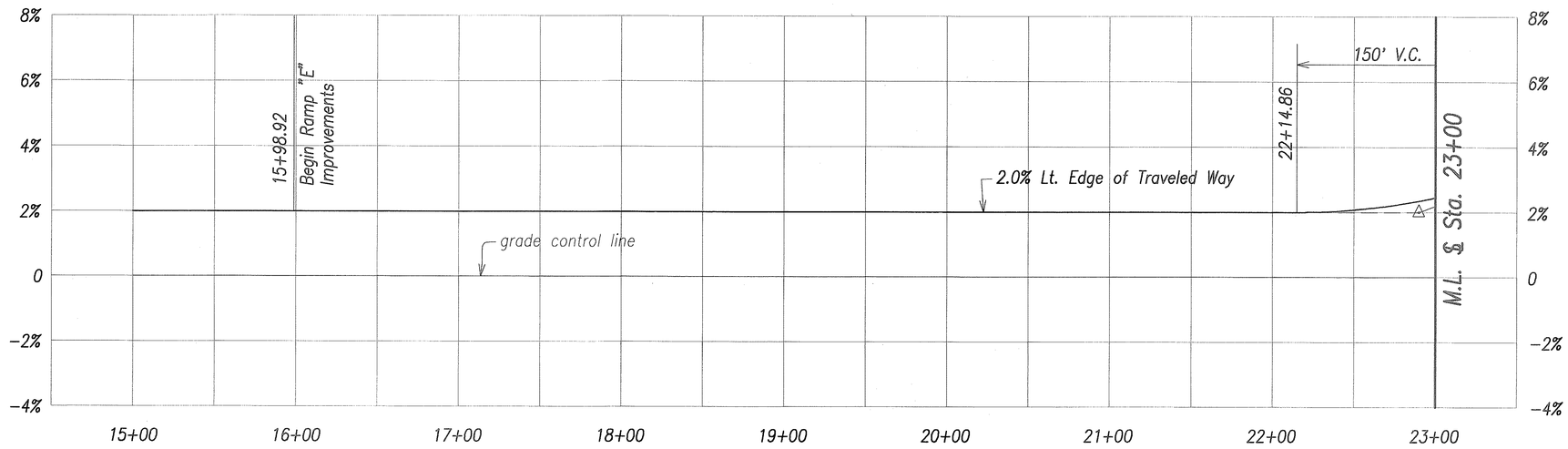
PROFILE & SUPERELEVATION DIAGRAM
℄ STA. 133+00 TO ℄ STA. 144+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC3.8 OF 350 SHEETS

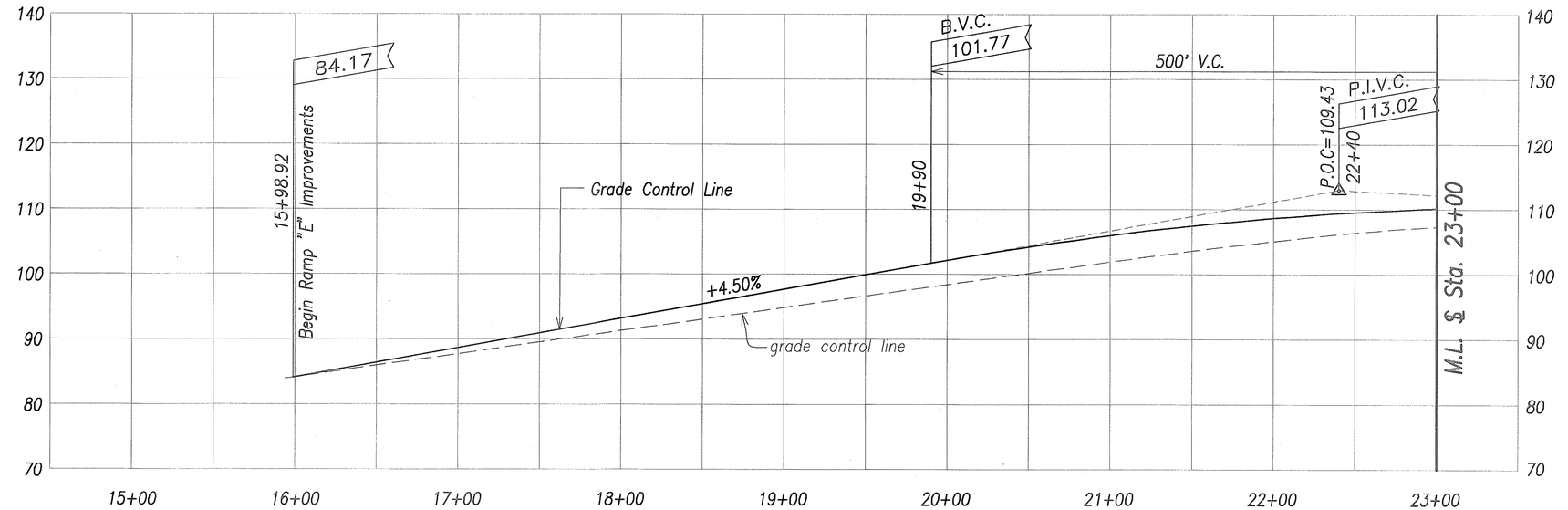
RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	54	816



Superelevation Diagram – Ramp "E"

Scale: Horizontal: 1" = 40'
Vertical: 1" = 2%



Profile – Ramp "E"

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'

Graphic Scale

1" = 10' — 10' 5' 0 10' 20' — Scale in Feet

1" = 40' — 40' 20' 0 40' 80' — Scale in Feet

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RAMP "E" PROFILE & SUPERELEVATION DIAGRAM

℄ STA. 15+00 TO ℄ STA. 23+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

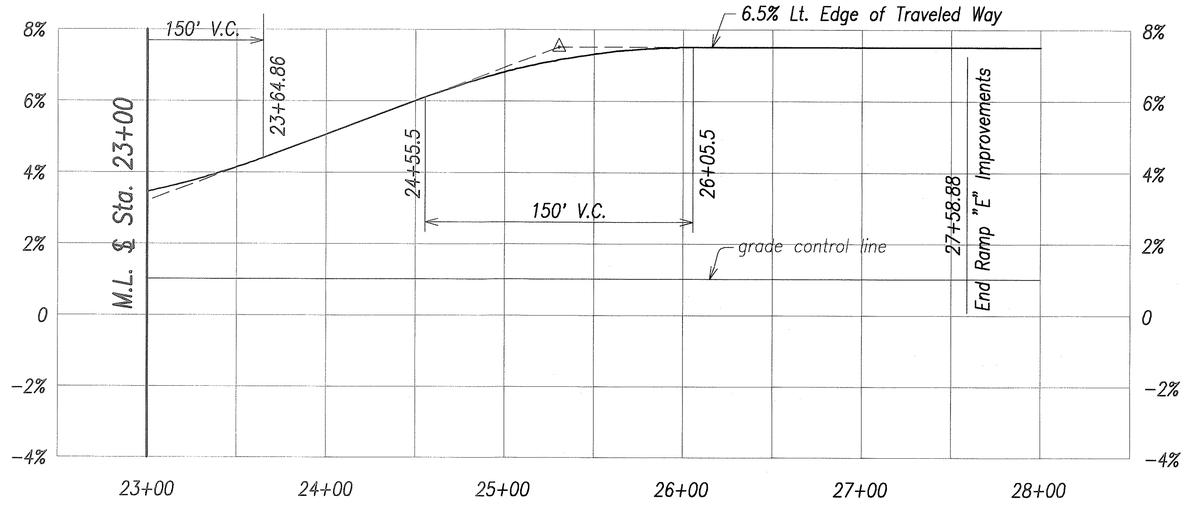
Scale: As Shown — Date: Mar. 31, 2003

SHEET No. AC3.9 OF 350 SHEETS

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

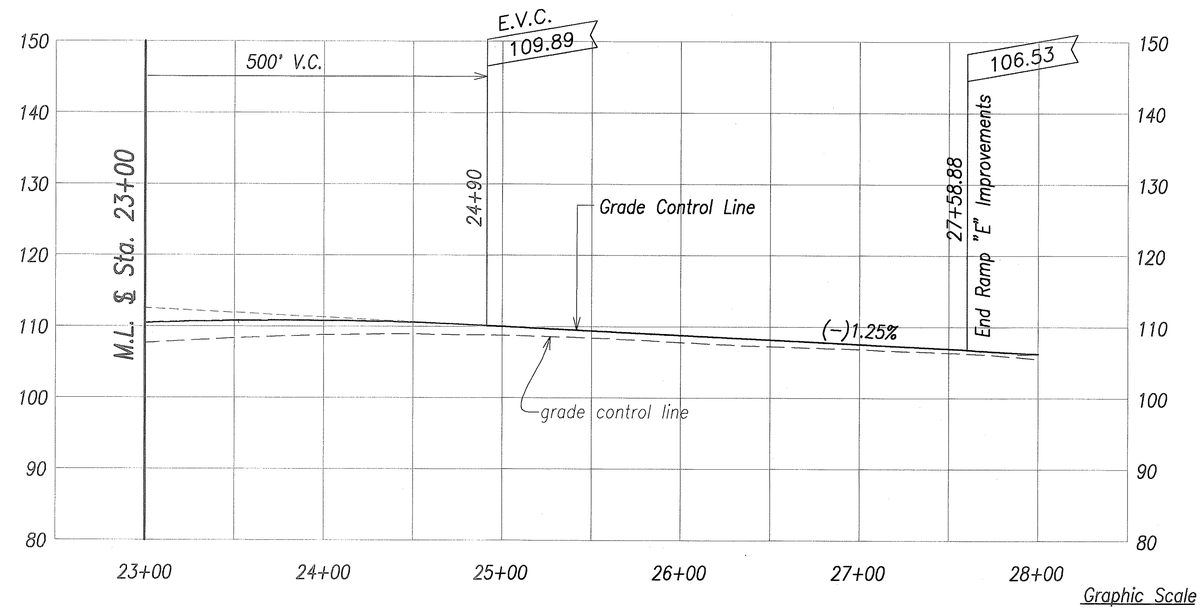
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	55	816



Superelevation Diagram – Ramp "E"

Scale: Horizontal: 1" = 40'
Vertical: 1" = 2%



Profile – Ramp "E"

Scale: Horizontal: 1" = 40'
Vertical: 1" = 10'

Graphic Scale

1" = 10' 10' 5' 0 10' 20'
Scale in Feet

1" = 40' 40' 20' 0 40' 80'
Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RAMP "E" PROFILE & SUPERELEVATION DIAGRAM

℄ STA. 23+00 TO ℄ STA. 28+00

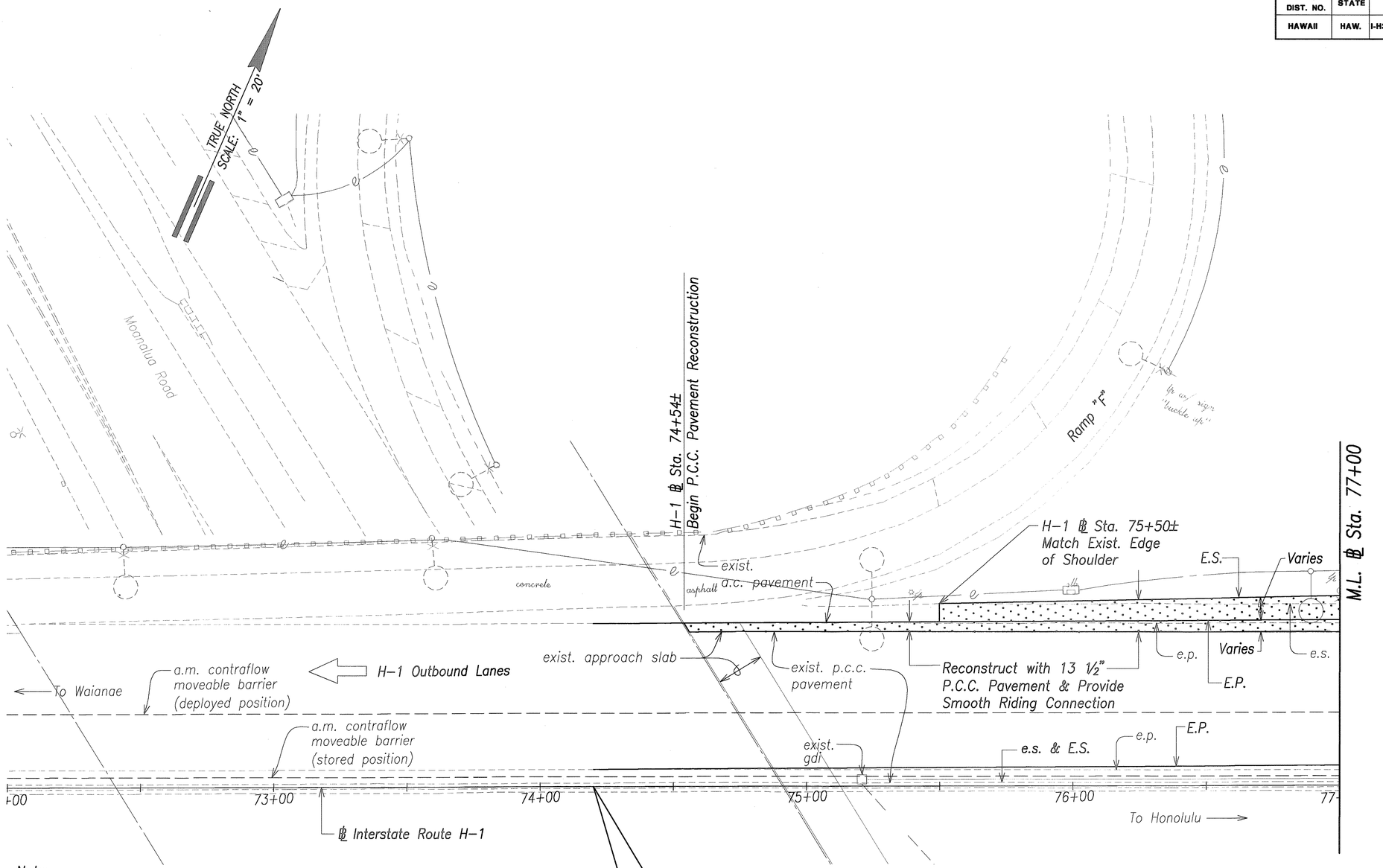
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC3.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 56	816



3 Note:

1. 13 ½" P.C.C. shall consist of 12-hr, 450-psi min. flexural strength concrete.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

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

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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Added Note.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 74+20± TO ℄ STA. 77+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

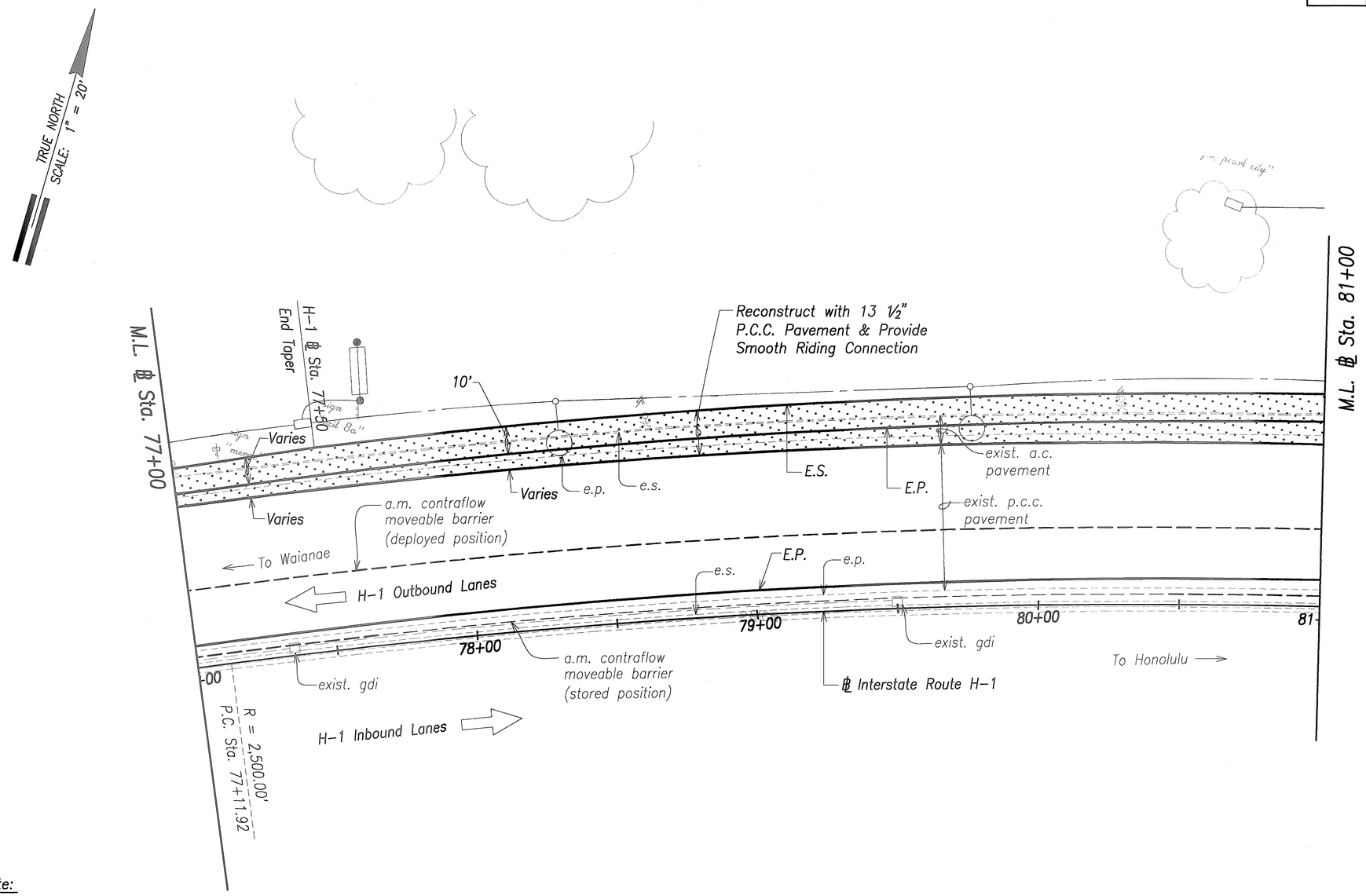
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.1 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 56

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 57	816



△3 *Note:*

1. *13 ½" P.C.C. shall consist of 12-hr, 450-psi min. flexural strength concrete.*

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 7/01/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
℄ STA. 77+00 TO ℄ STA. 81+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

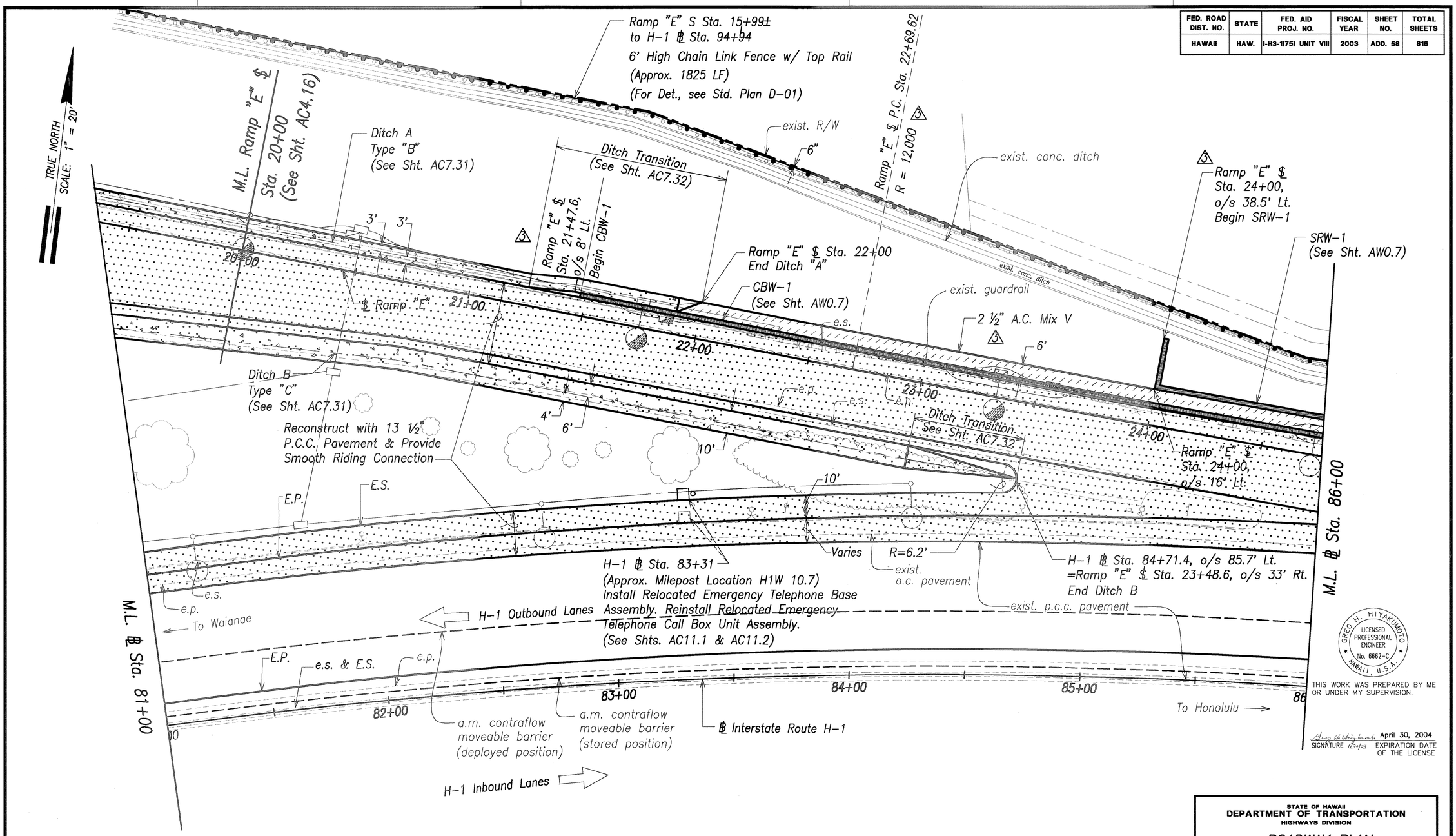
DATE	REVISION
6/20/03	△3 Added Note.

SHEET No. AC4.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 57

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 58	816



3 Note:

1. 13 ½" P.C.C. shall consist of 12-hr, 450-psi min. flexural strength concrete.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Added Note; Revised Callouts and Limits of 2 ½" A.C. Mix V.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 4/30/04 April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 81+00 TO ℄ STA. 86+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

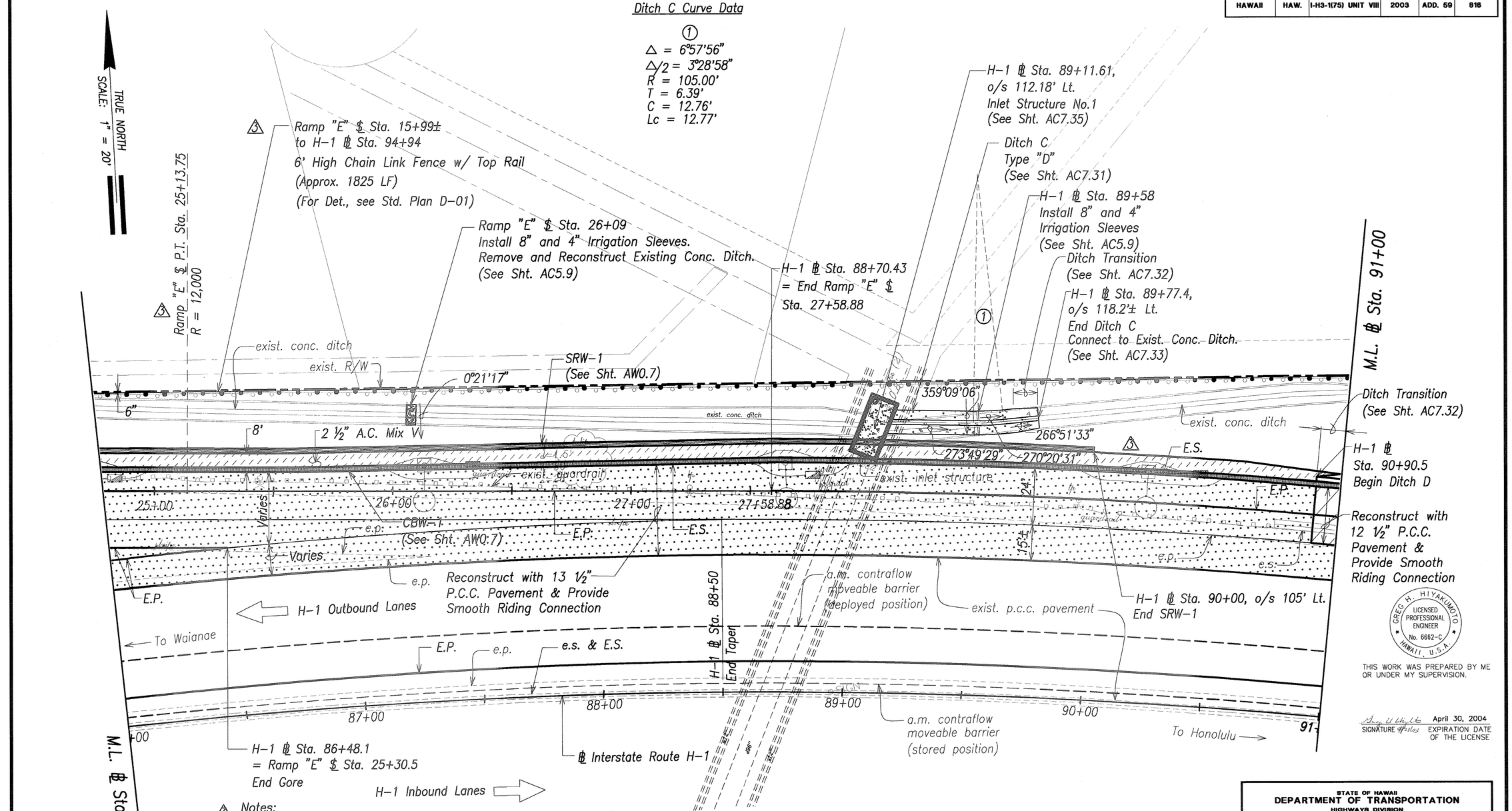
SHEET No. AC4.3 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 58

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 59	816



3 Notes:

1. For Irrigation Sleeve Detail, see Sht. AC5.9.
2. 12 ½" P.C.C. shal consist of 28-day, 650-psi min. flexural strength concrete.
3. 13 ½" P.C.C. shall consist of 28-day, 450-psi min. flexural strength concrete.

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
6/20/03	3 Added Notes and Callouts; Revised Callouts and Limits of 2 ½" A.C. Mix V.

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE _____ April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 86+00 TO ℄ STA. 91+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.4 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 59

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 60	816

TRUE NORTH
SCALE: 1" = 20'

H-1 ℄ Sta. 95+79.25,
o/s 174.50' Lt.
Begin 6' Chain Link Fence

H-1 ℄ Sta. 95+69,
o/s 174.50' Lt.

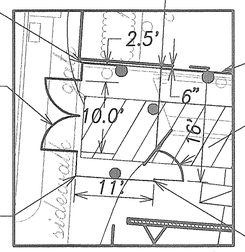
H-1 ℄ Sta. 95+79.25
to H-1 ℄ Sta. 106+39.40
6' High Chain Link Fence w/ Top Rail
(Approx. 1060 LF)
(For Det., see Std. Plan D-01)

Install Chain Link Gate,
6' High and 10' Wide

Install Chain Link Gate,
6' High and 4' Wide

H-1 ℄ Sta. 95+69,
o/s 158.60' Lt.

H-1 ℄ Sta. 95+79.25,
o/s 158.65' Lt.



Inset
Scale: 1" = 10'

Ramp "E" ℄ Sta. 15+99±
to H-1 ℄ Sta. 94+94
6' High Chain Link Fence w/ Top Rail
(Approx. 1825 LF)
(For Det., see Std. Plan D-01)

H-1 ℄ Sta. 94+94
End 6' Chain Link Fence
Connect to Exist.
Chain Link Fence

NBW-1
(See Sht. AW0.7)

exist. conc. ditch

See Inset

NBW-1
(See Sht. AW0.7)

AW-1
(See Sht. AW0.7)

exist. R/W

exist. conc. ditch

6"

H-1 ℄ Sta. 93+50
End CBW-1
Begin SNRW-1

H-1 ℄ Sta. 94+96
End Ditch D
Begin Ditch E

H-1 ℄ Sta. 95+76.32,
o/s 152.5' Lt. 5
Begin NBW-1

PC=95+76.32
R=2652.50
o/s=152.5' Lt.
PT=95+91.20
o/s=150.00' Lt.

M.L. ℄ Sta. 96+00

Ditch D
Type "A"
(See Sht. AC7.31)

Ditch Transition
(See Sht. AC7.32)

Reconstruct with 12 ½"
P.C.C. Pavement & Provide
Smooth Riding Connection

Ditch Transition
(From Type "E"
to Type "A")
(See Sht. AC7.32)

SNRW-2
(See Sht. AW0.7)

H-1 ℄ Sta. 95+70.12,
o/s 96' Lt. 5
End AW-1
Begin SNRW-2

exist. conc. barrier

E.P.

E.S.

e.p.

e.s.

24'

13'

exist. a.c. pavement

CBW-1
(See Sht. AW0.7)

Reconstruct with 13 ½"
P.C.C. Pavement & Provide
Smooth Riding Connection

exist. p.c.c. pavement

Ditch E
Type "E"
(See Sht. AW2.4)

Kaahumanu Street Overpass
(Austin Bishop Separation)

To Waianae

H-1 Outbound Lanes

E.P.

e.p.

e.s. & E.S.

92+00

93+00

94+00

95+00

96+

+00

H-1 Inbound Lanes

To Honolulu

℄ Interstate Route H-1

a.m. contraflow
moveable barrier
(deployed position)

a.m. contraflow
moveable barrier
(stored position)

H-1 ℄ Sta. 94+89.75,
5 o/s 96' Lt.
End SNRW-1
Begin AW-1

M.L. ℄ Sta. 91+00

5 Notes:

1. 12 ½" P.C.C. shal consist of 28-day, 650-psi min. flexural strength concrete.
2. 13 ½" P.C.C. shall consist of 12-hr, 450-psi min. flexural strength concrete.

NBW-1 Curve Data 5
(1)

Δ = 0°20'27"
Δ/2 = 0°10'13.5"
R = 2,652.50'
T = 7.89'
C = 15.78'
L_c = 15.78'

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
10/16/03	5 Relocated NBW-1; Revised Ditch Transition.
6/20/03	3 Added Notes; Revised Callouts.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 91+00 TO ℄ STA. 96+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.5 OF 350 SHEETS

ADD. 60

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

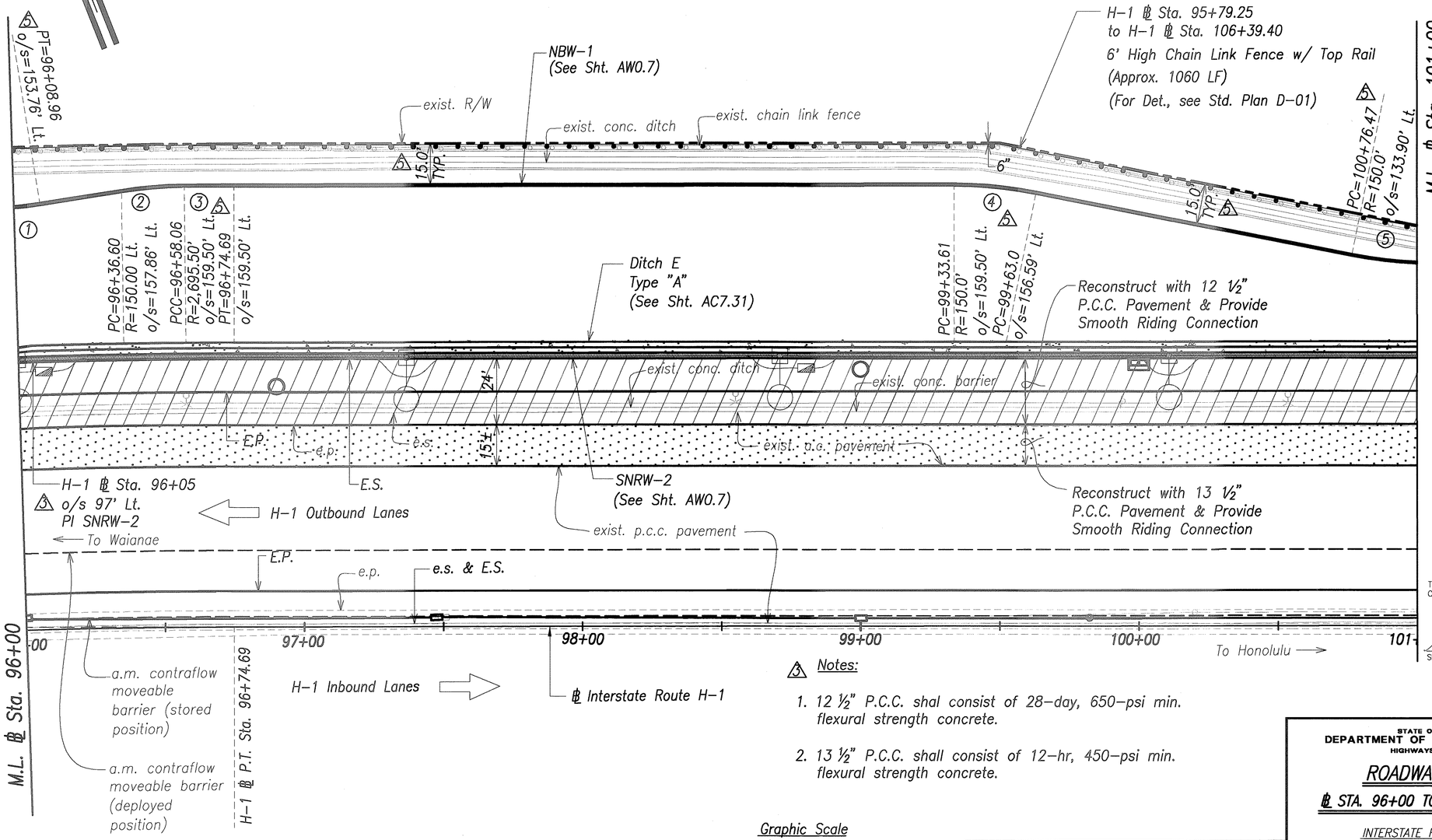
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 61	816

TRUE NORTH
SCALE: 1" = 20'

NBW-1 Curve Data 5

①	②	③	④	⑤
△ = 7°13'03"	△ = 8°44'59"	△ = 0°22'52"	△ = 11°18'33"	△ = 11°15'29"
△/2 = 3°36'31.5"	△/2 = 4°22'29.5"	△/2 = 0°11'26"	△/2 = 5°39'16.5"	△/2 = 5°37'44.5"
R = 150.00'	R = 150.00'	R = 2,695.50'	R = 150.00'	R = 150.00'
T = 9.46'	T = 11.48'	T = 8.84'	T = 14.78'	T = 14.78'
C = 18.88'	C = 22.88'	C = 17.69'	C = 29.43'	C = 29.43'
Lc = 18.90'	Lc = 22.91'	Lc = 17.69'	Lc = 29.47'	Lc = 29.47'



5 Notes:

1. 12 ½" P.C.C. shal consist of 28-day, 650-psi min. flexural strength concrete.
2. 13 ½" P.C.C. shall consist of 12-hr, 450-psi min. flexural strength concrete.

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
10/16/03	5 Relocated NBW-1.
6/20/03	3 Added Notes; Added Callout.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 96+00 TO ℄ STA. 101+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

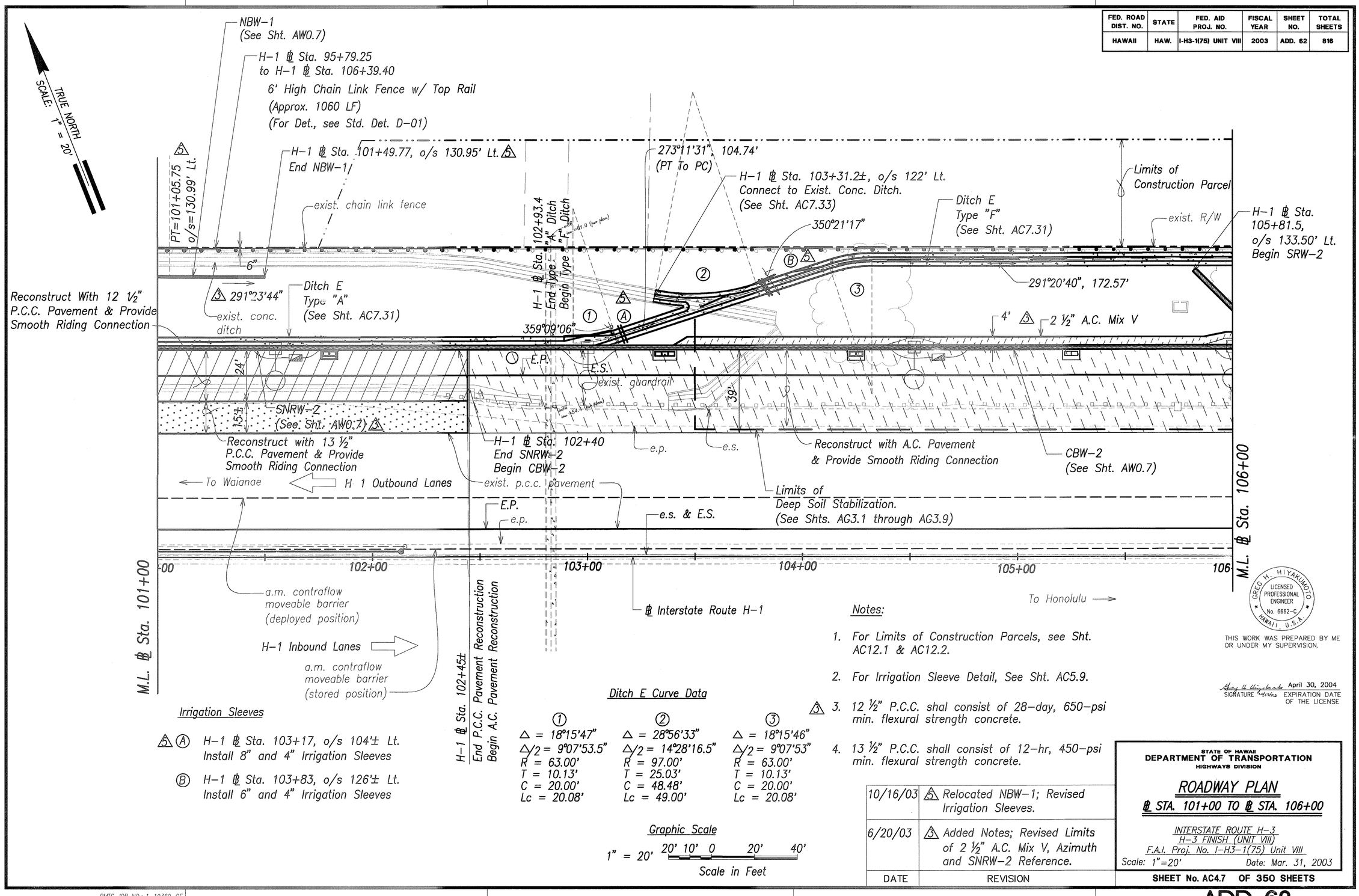
SHEET No. AC4.6 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 61

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 62	816



Irrigation Sleeves

5 Ⓐ H-1 ℄ Sta. 103+17, o/s 104'± Lt.
Install 8" and 4" Irrigation Sleeves

Ⓑ H-1 ℄ Sta. 103+83, o/s 126'± Lt.
Install 6" and 4" Irrigation Sleeves

Ditch E Curve Data

①	②	③
Δ = 18°15'47"	Δ = 28°56'33"	Δ = 18°15'46"
Δ/2 = 9°07'53.5"	Δ/2 = 14°28'16.5"	Δ/2 = 9°07'53"
R = 63.00'	R = 97.00'	R = 63.00'
T = 10.13'	T = 25.03'	T = 10.13'
C = 20.00'	C = 48.48'	C = 20.00'
Lc = 20.08'	Lc = 49.00'	Lc = 20.08'

Graphic Scale

1" = 20' 20' 10' 0 20' 40'
Scale in Feet

Notes:

1. For Limits of Construction Parcels, see Sht. AC12.1 & AC12.2.
2. For Irrigation Sleeve Detail, See Sht. AC5.9.
3. 5 12 ½" P.C.C. shal consist of 28-day, 650-psi min. flexural strength concrete.
4. 13 ½" P.C.C. shall consist of 12-hr, 450-psi min. flexural strength concrete.

DATE	REVISION
10/16/03	5 Relocated NBW-1; Revised Irrigation Sleeves.
6/20/03	3 Added Notes; Revised Limits of 2 ½" A.C. Mix V, Azimuth and SNRW-2 Reference.

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

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
℄ STA. 101+00 TO ℄ STA. 106+00

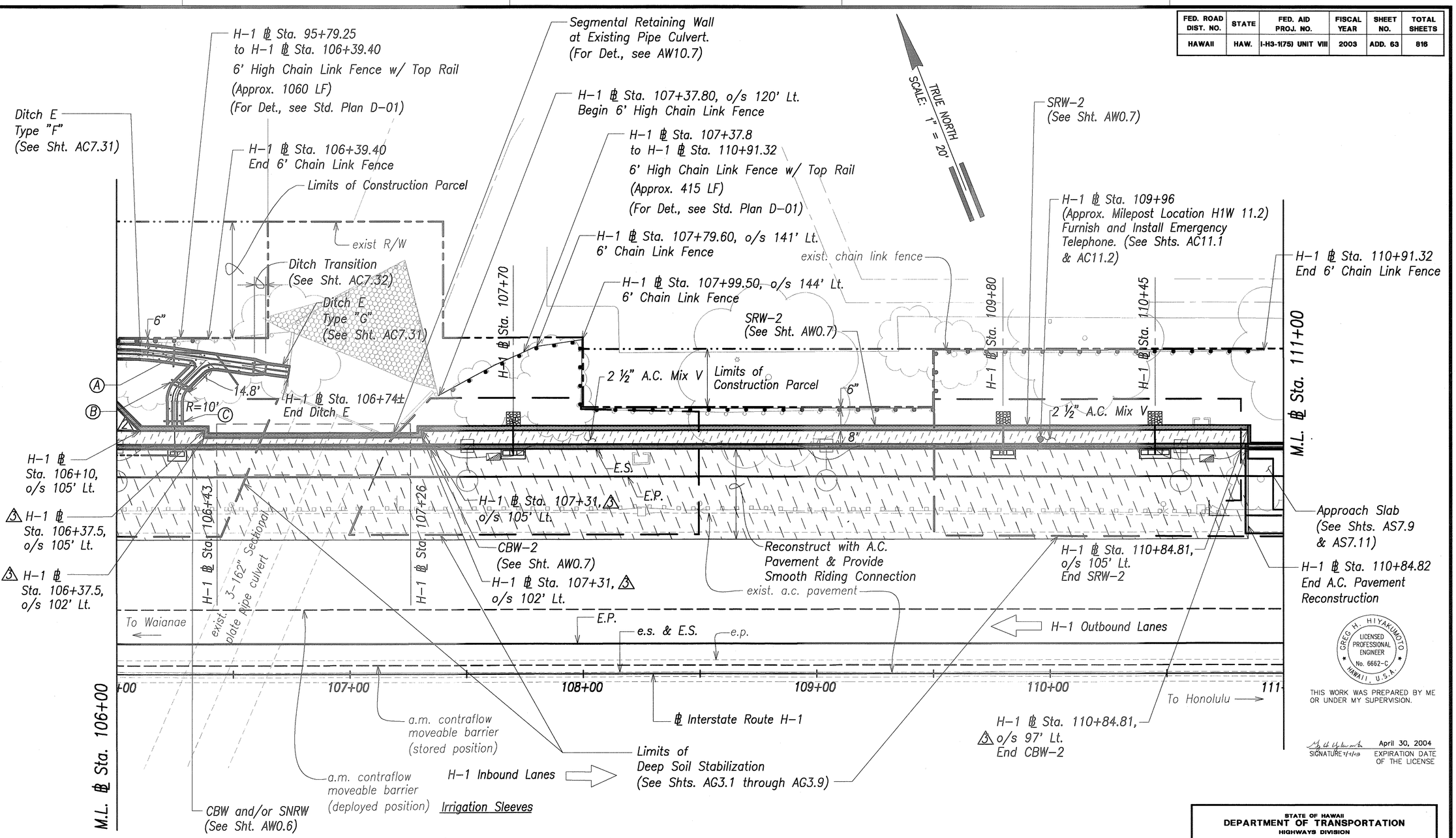
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.7 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 62

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 63	816



Irrigation Sleeves

Ⓐ H–1 ℄ Sta. 106+25, o/s 138'± Lt.
Install 4" Irrigation Sleeves

Ⓑ H–1 ℄ Sta. 106+28, o/s 125'± Lt.
Install 12" and 4" Irrigation Sleeves

Ⓒ H–1 ℄ Sta. 106+25, o/s 109'± Lt.
Install 4" Irrigation Sleeves

Notes:

1. For Limits of Construction Parcel, see Sht. AC12.1 & AC12.2
2. For Irrigation Sleeve Det., see Sht. AC5.9.

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
6/20/03	⚠3 Revised Callouts and Limits of 2 ½" A.C. Mix V.

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662–C
HAWAII, U.S.A.

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SIGNATURE 4/4/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 106+00 TO ℄ STA. 111+00

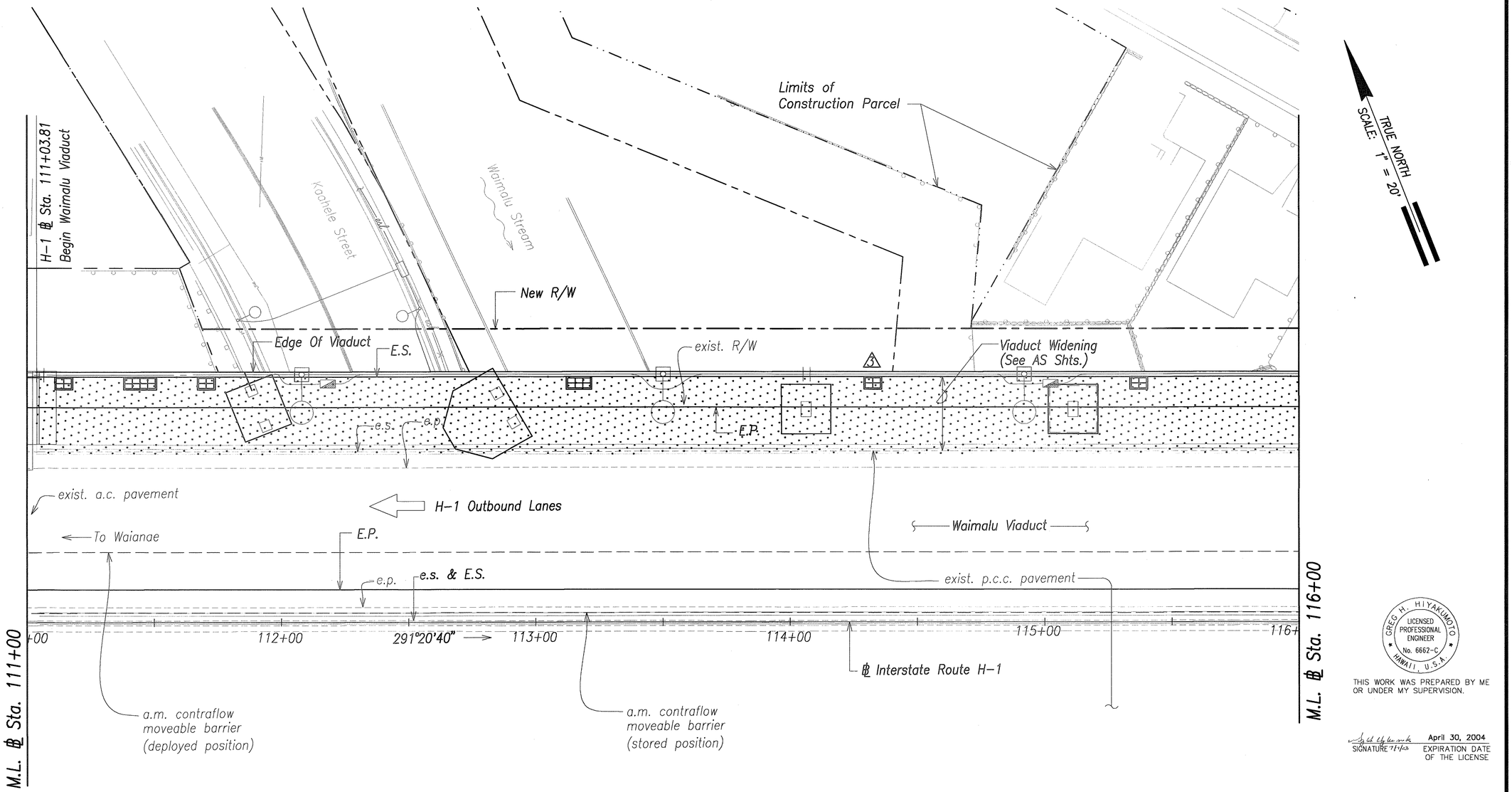
INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.8 OF 350 SHEETS

RMTC JOB NO.: 1–19369–0E

ADD. 63

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD 64	816



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

Note:

For Limits of Construction Parcel, see Sht. AC12.1 & AC12.2

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	⚠3 Relocated GDI

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 111+00 TO ℄ STA. 116+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

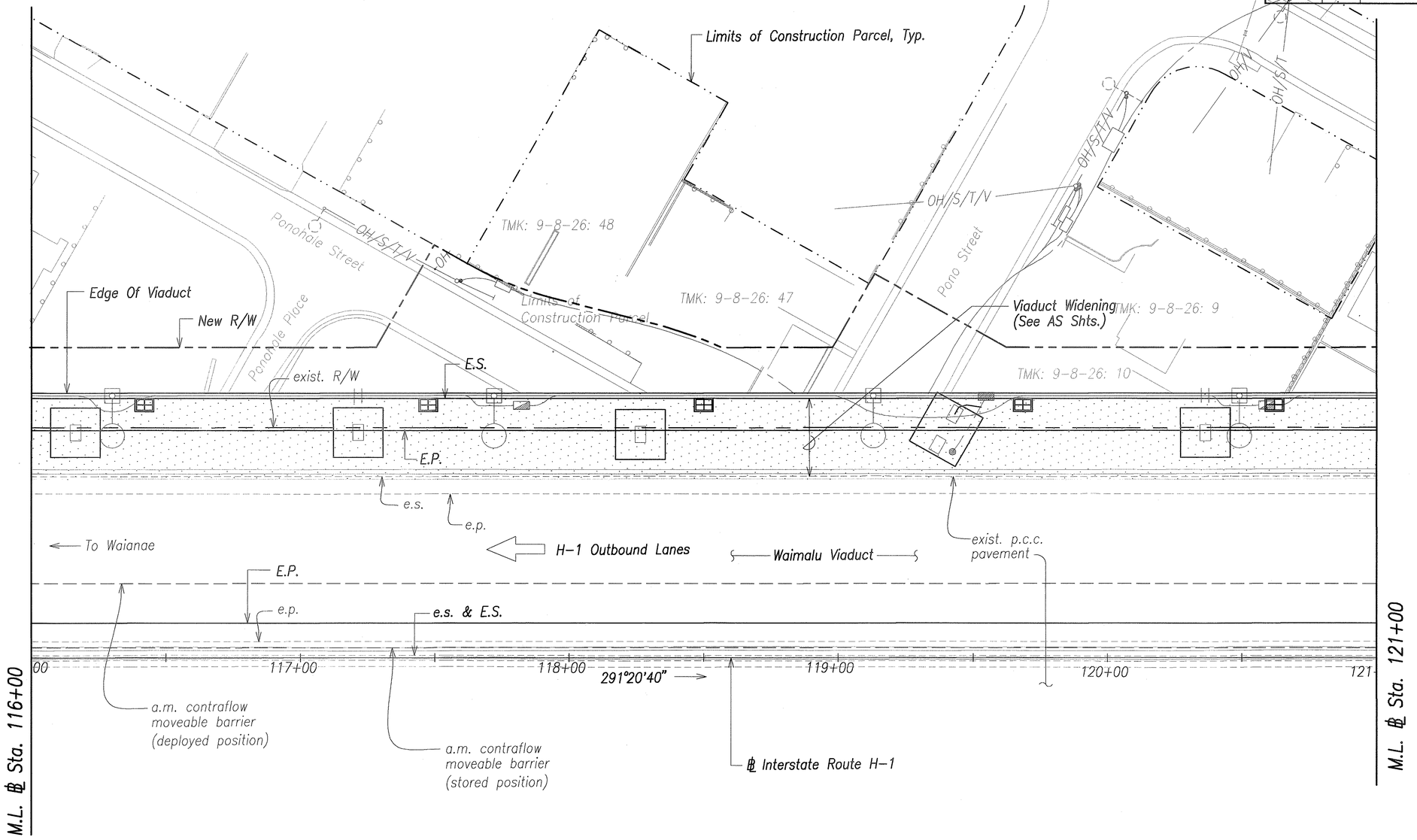
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.9 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 64

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	65	816



Note:

For Limits of Construction Parcel, see Sht. AC12.1 & AC12.2

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 116+00 TO ℄ STA. 121+00

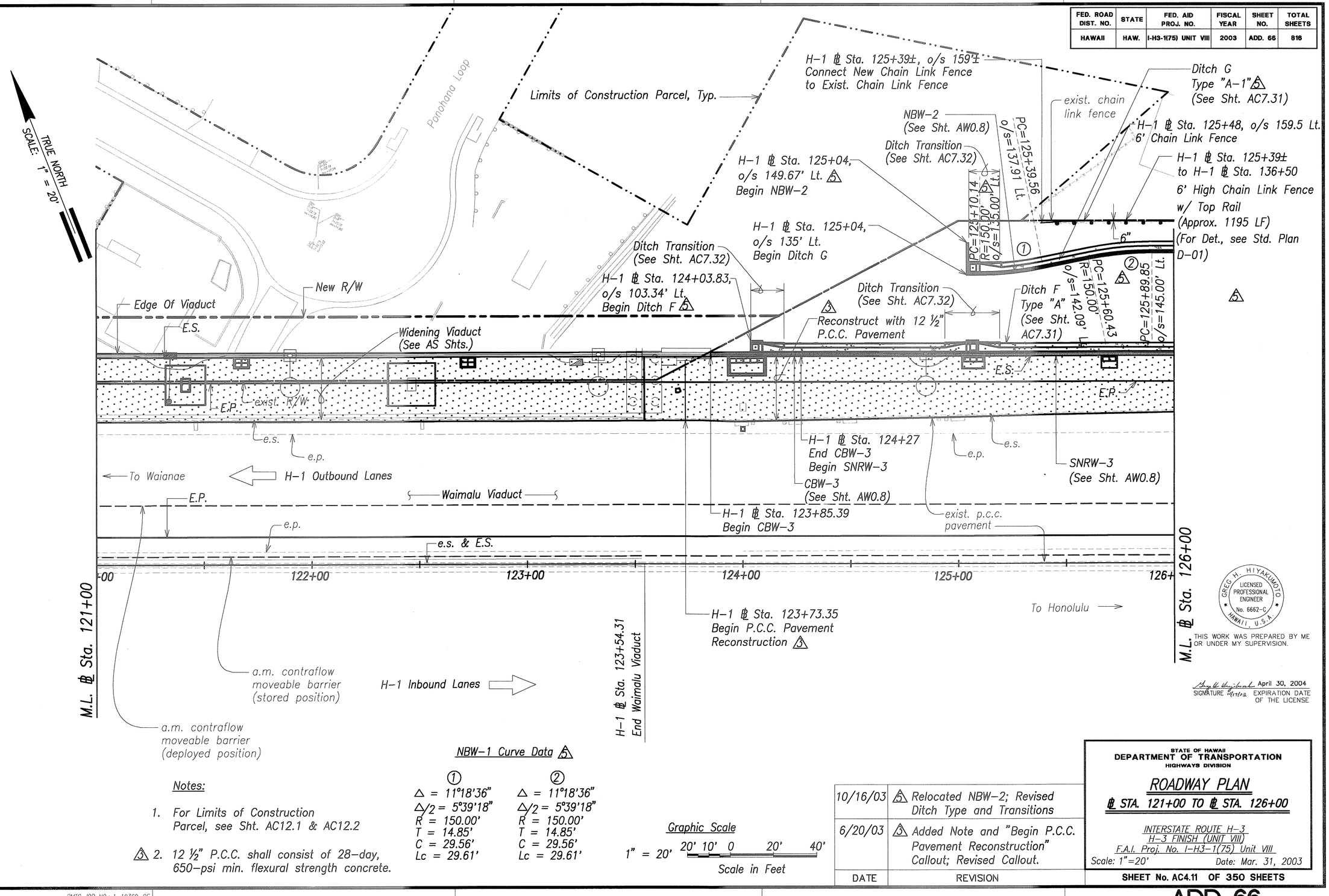
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. 1-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 66	816



NBW-1 Curve Data 5

①	②
△ = 11°18'36"	△ = 11°18'36"
△/2 = 5°39'18"	△/2 = 5°39'18"
R = 150.00'	R = 150.00'
T = 14.85'	T = 14.85'
C = 29.56'	C = 29.56'
Lc = 29.61'	Lc = 29.61'

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

Notes:

1. For Limits of Construction Parcel, see Sht. AC12.1 & AC12.2
3 2. 12 ½" P.C.C. shall consist of 28-day, 650-psi min. flexural strength concrete.

DATE	REVISION
10/16/03	5 Relocated NBW-2; Revised Ditch Type and Transitions
6/20/03	3 Added Note and "Begin P.C.C. Pavement Reconstruction" Callout; Revised Callout.

ORIGINAL PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY DATE
DRAWN BY "
TRACED BY "
DESIGNED BY "
QUANTITIES BY "
CHECKED BY "

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 121+00 TO ℄ STA. 126+00

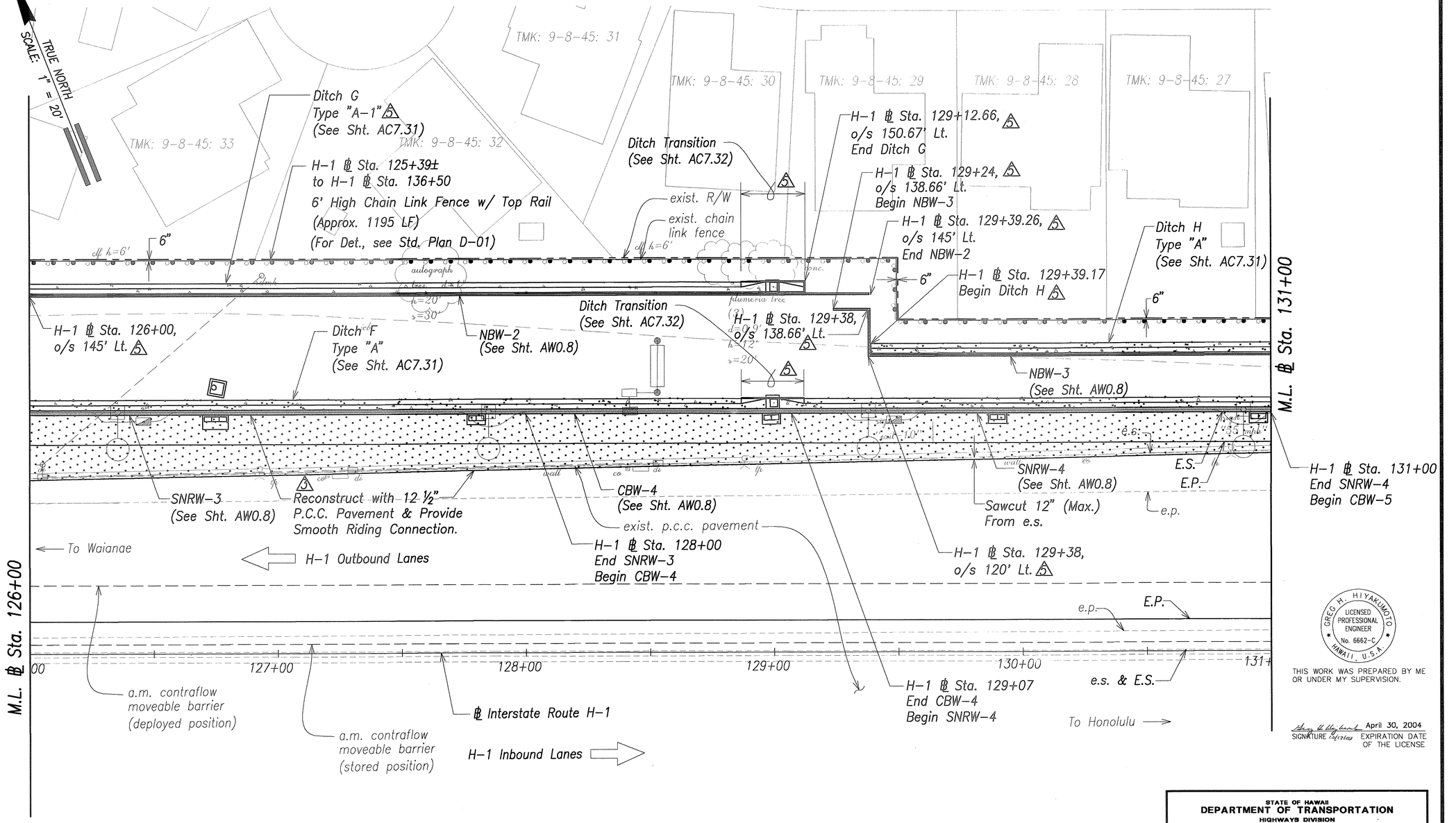
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.11 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 66

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 67	816



5 Note:

12 ½" P.C.C. shall consist of 28-day, 650-psi min. flexural strength concrete.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised Ditch Transition; Revised Callouts; Relocated NBW-2 and NBW-3
6/20/03	5 Added Note

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 126+00 TO ℄ STA. 131+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.12 OF 350 SHEETS

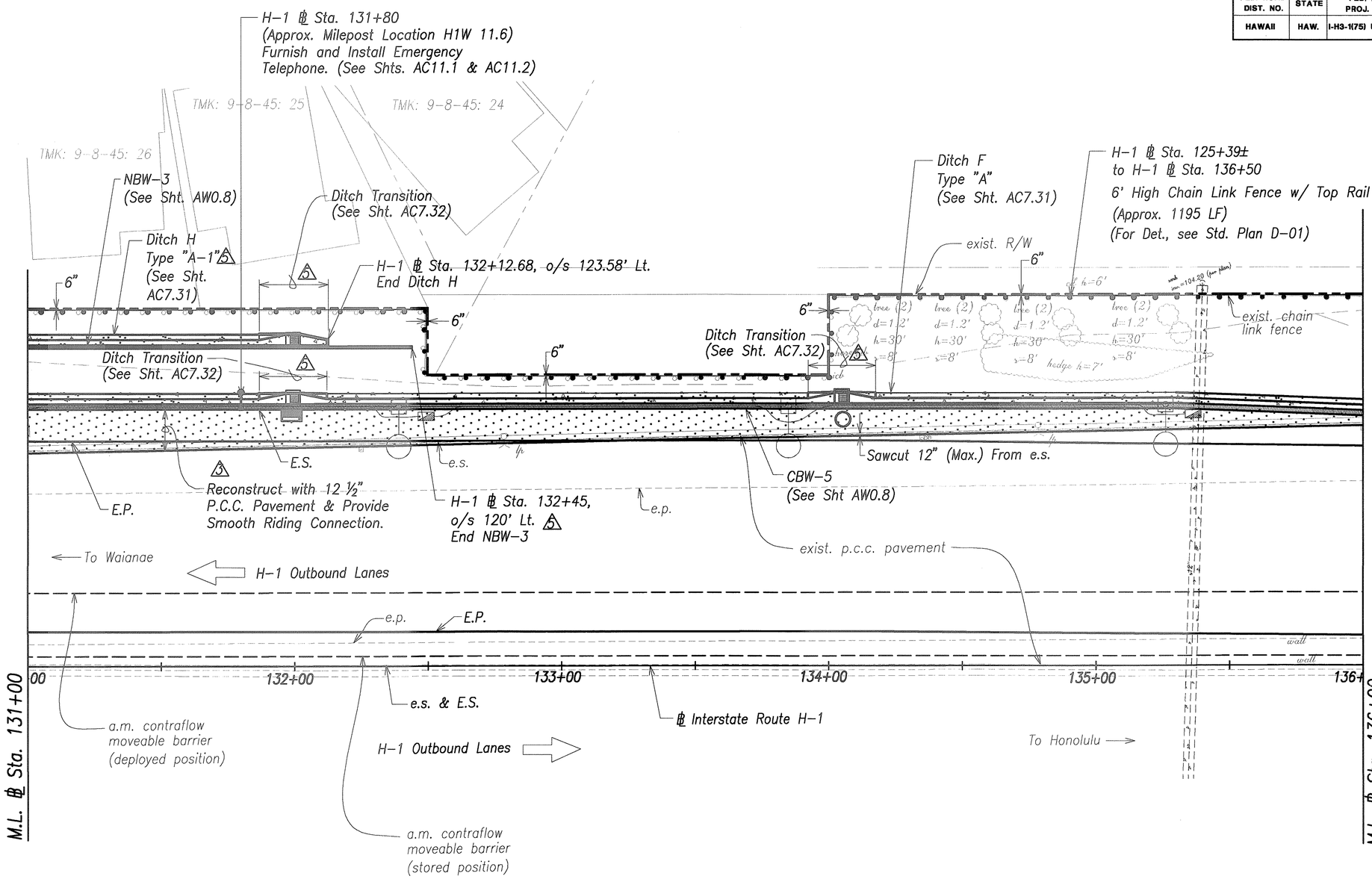
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	

RMTC JOB NO.: 1-19369-0E

ADD. 67

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 68	816

TRUE NORTH
SCALE: 1" = 20'



3 Note:

12 ½" P.C.C. shall consist of 28-day, 650-psi min. flexural strength concrete.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised Ditch Transition; Revised Callouts; Relocated NBW-3
6/20/03	3 Added Note

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 131+00 TO ℄ STA. 136+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

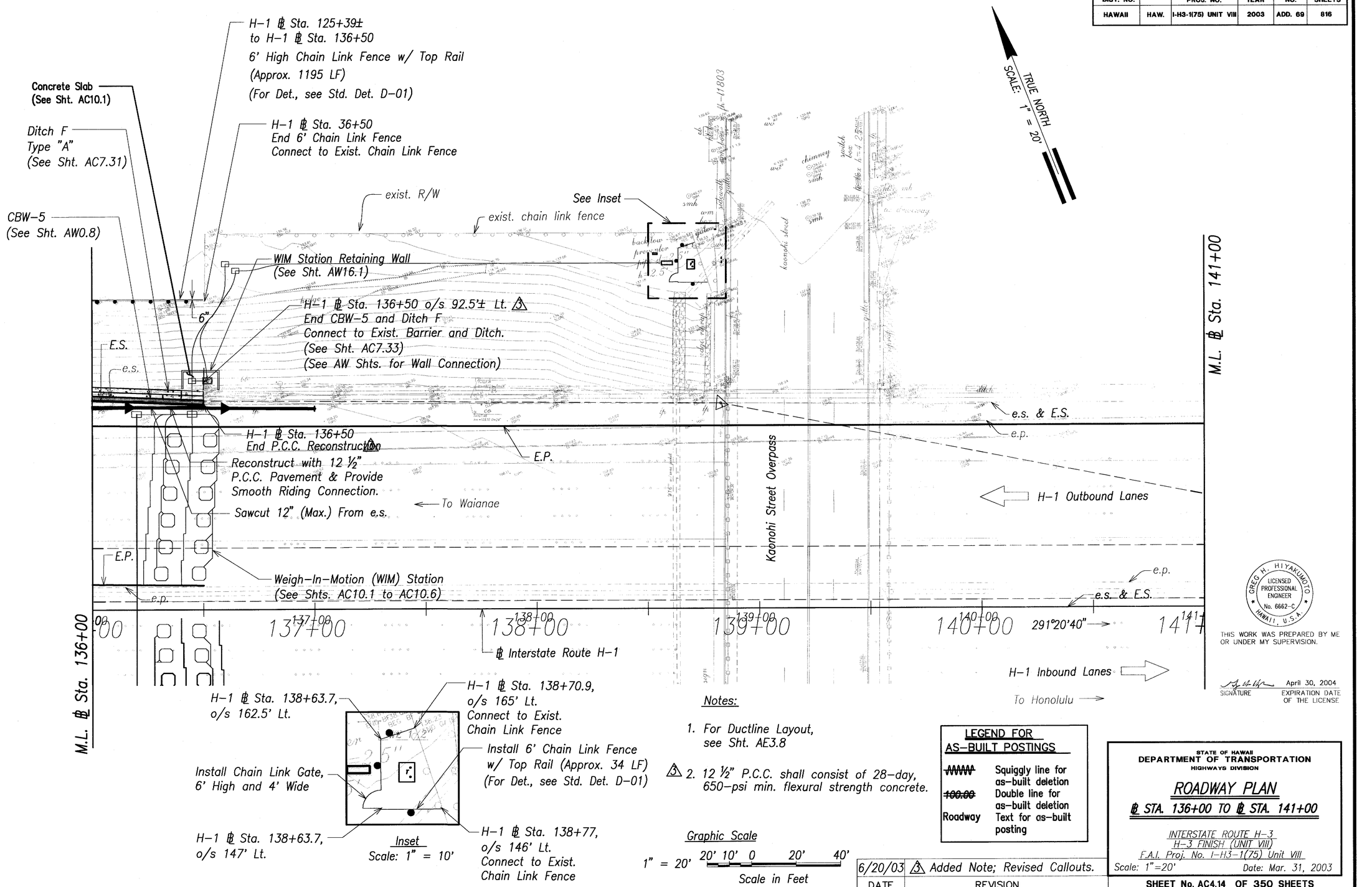
SHEET No. AC4.13 OF 350 SHEETS

ADD. 68

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 69	816



Notes:

1. For Ductline Layout, see Sht. AE3.8
2. 3 12 ½" P.C.C. shall consist of 28-day, 650-psi min. flexural strength concrete.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

LEGEND FOR AS-BUILT POSTINGS

~~AAAAA~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

DATE	REVISION
6/20/03	3 Added Note; Revised Callouts.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 136+00 TO ℄ STA. 141+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.14 OF 350 SHEETS

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

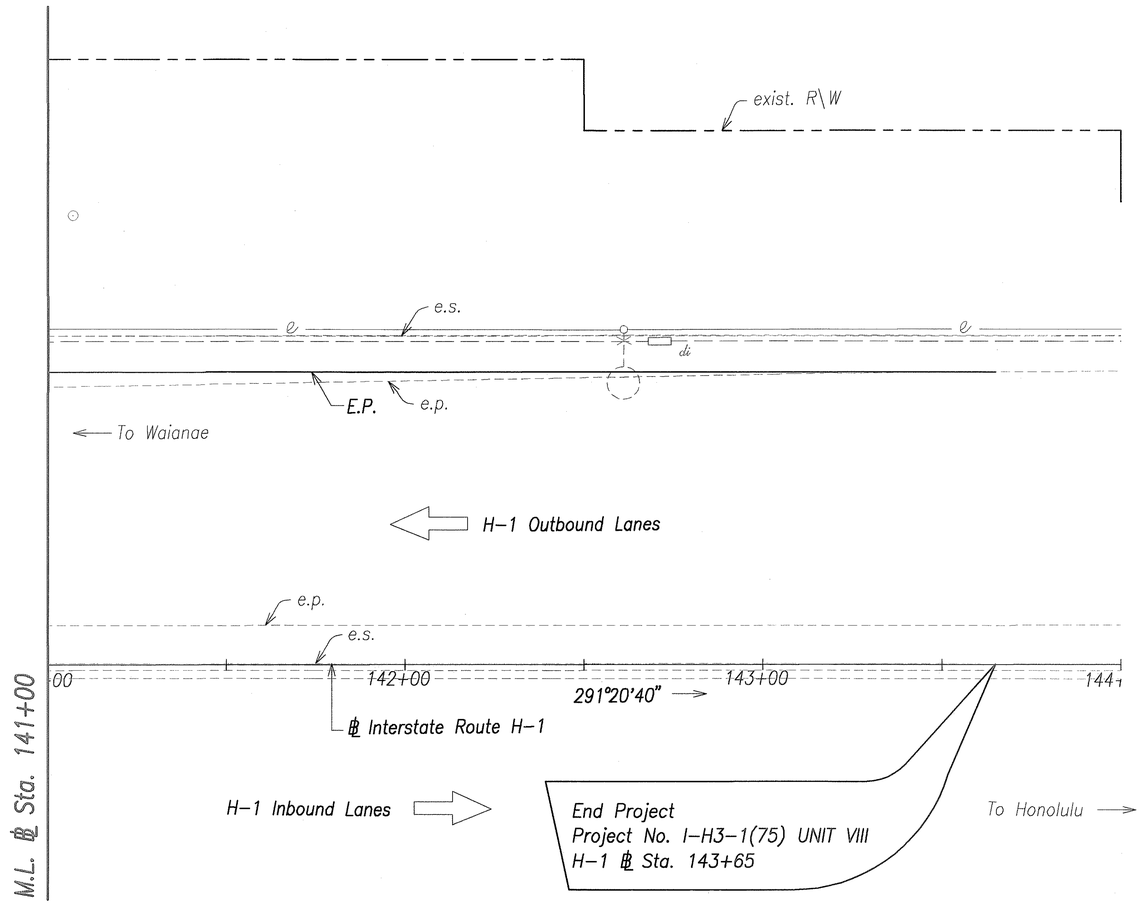
ORIGINAL PLAN
SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
NOTE BOOK DESIGNED BY
QUANTITIES BY
No. CHECKED BY

RMTC JOB NO.: 1-19369-OE

"AS-BUILT" ADD. 69

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	70	816

TRUE NORTH
SCALE: 1" = 20'



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

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

℄ STA. 141+00 TO ℄ STA. 144+00

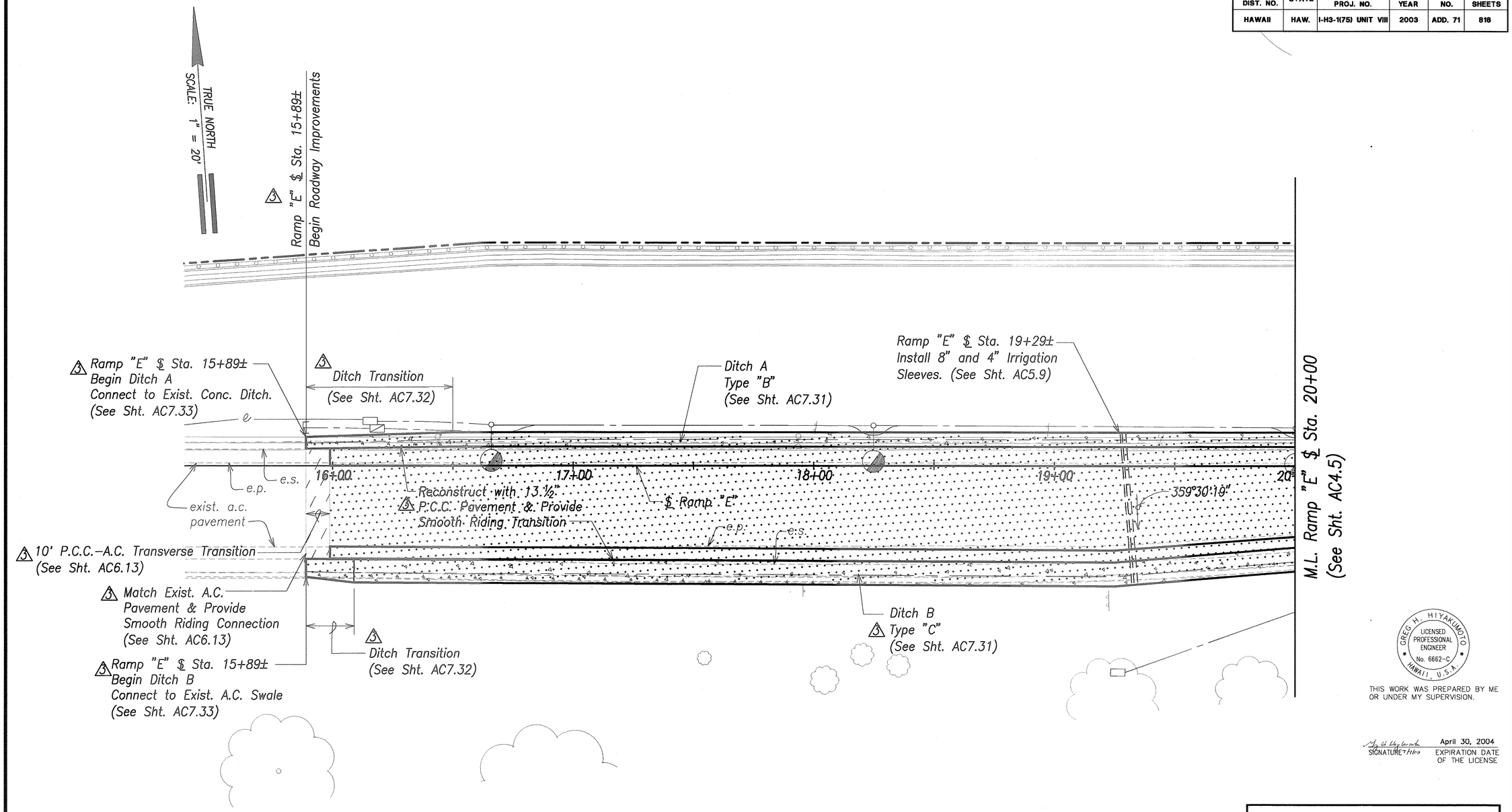
INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.15 OF 350 SHEETS

RMTC JOB NO.: 1–19369–OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 71	816



3 Note:

13 ½" P.C.C. shall consist of 12–hr, 450–psi min. flexural strength concrete.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Added Note and Callouts; Revised Callouts and "Beginning of Ramp "E" Improvements.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662–C
HAWAII, U.S.A.

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SIGNATURE / Title — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

RAMP "E"

℄ STA. 15+89± TO ℄ STA. 20+00

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.16 OF 350 SHEETS

RMTC JOB NO.: 1–19369–0E

ADD. 71

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 72	816

Notes:

1. Adjust heights of exist. sewer and water manholes, water meters, water boxes, etc. to match finish grades.
2. For Drainage System, see Sht. AC7.16.

Kaahele Street
℄ Curve Data
①
△ =28°30'00"
△/2=14°15'00"
R=450.00'
T=114.29'
C=221.54'
Lc=223.84'

APPROVED:

M. [signature] 7/18/03
Chief, Civil Engineering Branch, DPP MT Date

[signature] 8/12/03
Chief, Traffic Review Branch, DPP Date

[signature] 7/22/03
Chief, Wastewater Branch, DPP Date

[signature] 7/8/03
Principal Executive
Maintenance Unit, BWS DD Date

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

[signature] April 30, 2004
SIGNATURE 7/24/03 EXPIRATION DATE OF THE LICENSE

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

DATE	REVISION
6/20/03	③ Revised Locations of Signs.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAAHELE STREET

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

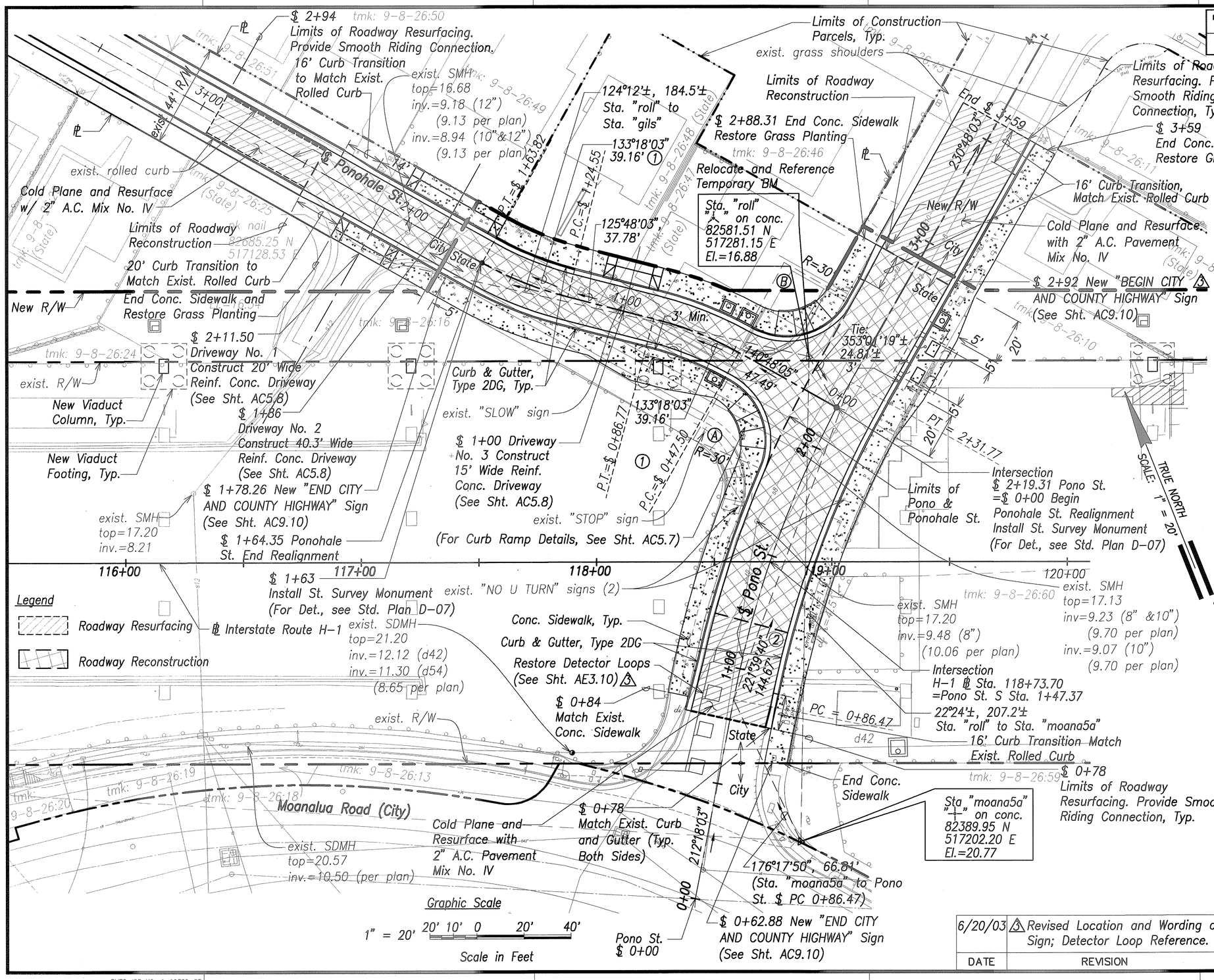
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.17 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 72

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 73	816



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

DATE	REVISION
6/20/03	③ Revised Location and Wording of Sign; Detector Loop Reference.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

PONOHALE ST. & PONO ST.

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

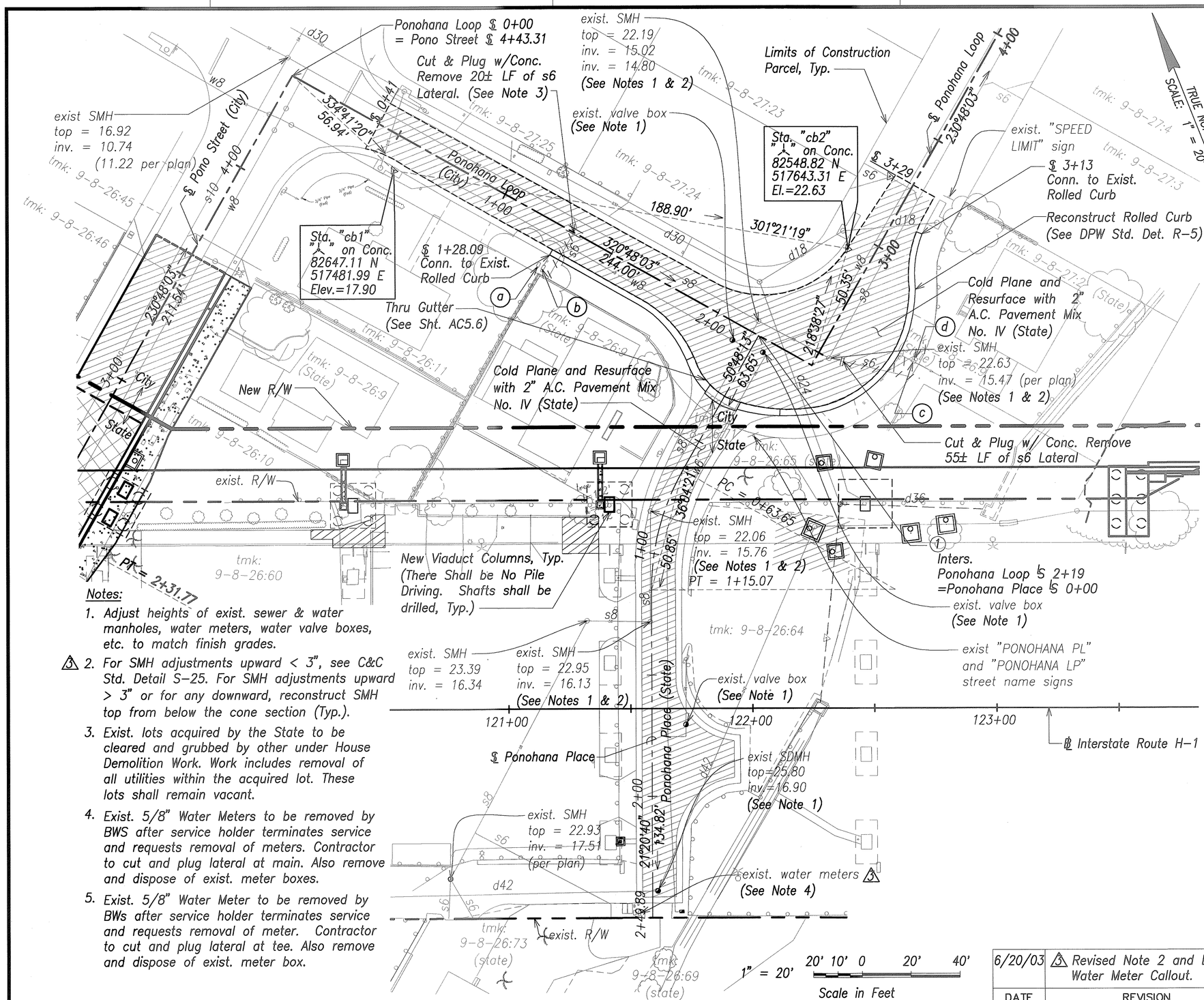
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.18 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 73

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 74	816



Notes:

1. Adjust heights of exist. sewer & water manholes, water meters, water valve boxes, etc. to match finish grades.
2. For SMH adjustments upward < 3", see C&C Std. Detail S-25. For SMH adjustments upward > 3" or for any downward, reconstruct SMH top from below the cone section (Typ.).
3. Exist. lots acquired by the State to be cleared and grubbed by other under House Demolition Work. Work includes removal of all utilities within the acquired lot. These lots shall remain vacant.
4. Exist. 5/8" Water Meters to be removed by BWS after service holder terminates service and requests removal of meters. Contractor to cut and plug lateral at main. Also remove and dispose of exist. meter boxes.
5. Exist. 5/8" Water Meter to be removed by BWs after service holder terminates service and requests removal of meter. Contractor to cut and plug lateral at tee. Also remove and dispose of exist. meter box.

Legend

Roadway Resurfacing

Roadway Reconstruction

Ponohana Place Curve Data

① $\Delta = 29°27'23"$
$\Delta/2 = 14°43'42"$
$R = 100.00'$
$T = 25.74'$
$C = 50.85'$
$Lc = 51.41'$

	Meter Number	Prem ID
ⓐ	96023785	1135857
ⓑ	93022715	1135670
ⓒ	00205461	1135858
ⓓ	00205460	1135859
ⓔ	93022715	1135670

APPROVED:

M. [signature] 7/18/03
Chief, Civil Engineering Branch, DPP Date

[signature] 2/12/04
Chief, Traffic Review Branch, DPP Date

[signature] 7/22/03
Chief, Wastewater Branch, DPP Date

[signature] 7/8/03
Principal Executive Maintenance Unit, BWS Date

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

[signature] April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Revised Note 2 and Existing Water Meter Callout.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

PONOHANA LOOP

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

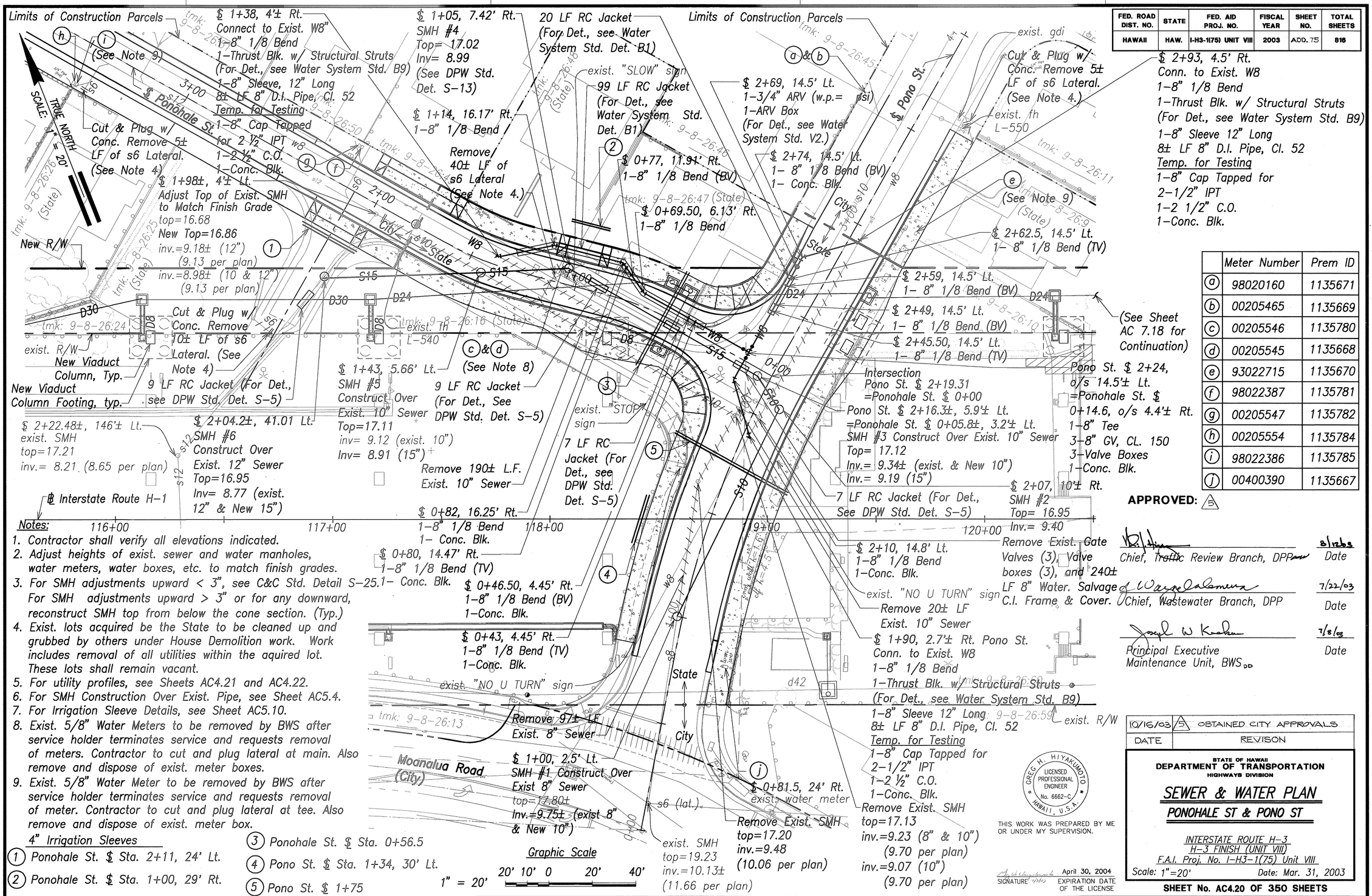
SHEET No. AC4.19 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

ADD. 74

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 75	816



	Meter Number	Prem ID
(a)	98020160	1135671
(b)	00205465	1135669
(c)	00205546	1135780
(d)	00205545	1135668
(e)	93022715	1135670
(f)	98022387	1135781
(g)	00205547	1135782
(h)	00205554	1135784
(i)	98022386	1135785
(j)	00400390	1135667

APPROVED: (5)

Chief, Traffic Review Branch, DPP — 8/12/03 Date

Chief, Wastewater Branch, DPP — 7/22/03 Date

Principal Executive Maintenance Unit, BWS — 7/8/03 Date

Notes:

1. Contractor shall verify all elevations indicated.
2. Adjust heights of exist. sewer and water manholes, water meters, water boxes, etc. to match finish grades.
3. For SMH adjustments upward < 3", see C&C Std. Detail S–25.1– For SMH adjustments upward > 3" or for any downward, reconstruct SMH top from below the cone section. (Typ.)
4. Exist. lots acquired be the State to be cleaned up and grubbed by others under House Demolition work. Work includes removal of all utilities within the aquired lot. These lots shall remain vacant.
5. For utility profiles, see Sheets AC4.21 and AC4.22.
6. For SMH Construction Over Exist. Pipe, see Sheet AC5.4.
7. For Irrigation Sleeve Details, see Sheet AC5.10.
8. Exist. 5/8" Water Meters to be removed by BWS after service holder terminates service and requests removal of meters. Contractor to cut and plug lateral at main. Also remove and dispose of exist. meter boxes.
9. Exist. 5/8" Water Meter to be removed by BWS after service holder terminates service and requests removal of meter. Contractor to cut and plug lateral at tee. Also remove and dispose of exist. meter box.

4" Irrigation Sleeves

(1) Ponohale St. ℄ Sta. 2+11, 24' Lt.
(2) Ponohale St. ℄ Sta. 1+00, 29' Rt.
(3) Ponohale St. ℄ Sta. 0+56.5
(4) Pono St. ℄ Sta. 1+34, 30' Lt.
(5) Pono St. ℄ 1+75

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

10/16/03	(5)	OBTAINED CITY APPROVALS
DATE		REVISON

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SEWER & WATER PLAN

PONOHALE ST & PONO ST

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

GREG H. HIYAKUMOTO — LICENSED PROFESSIONAL ENGINEER — No. 6662–C — HAWAII, U.S.A.

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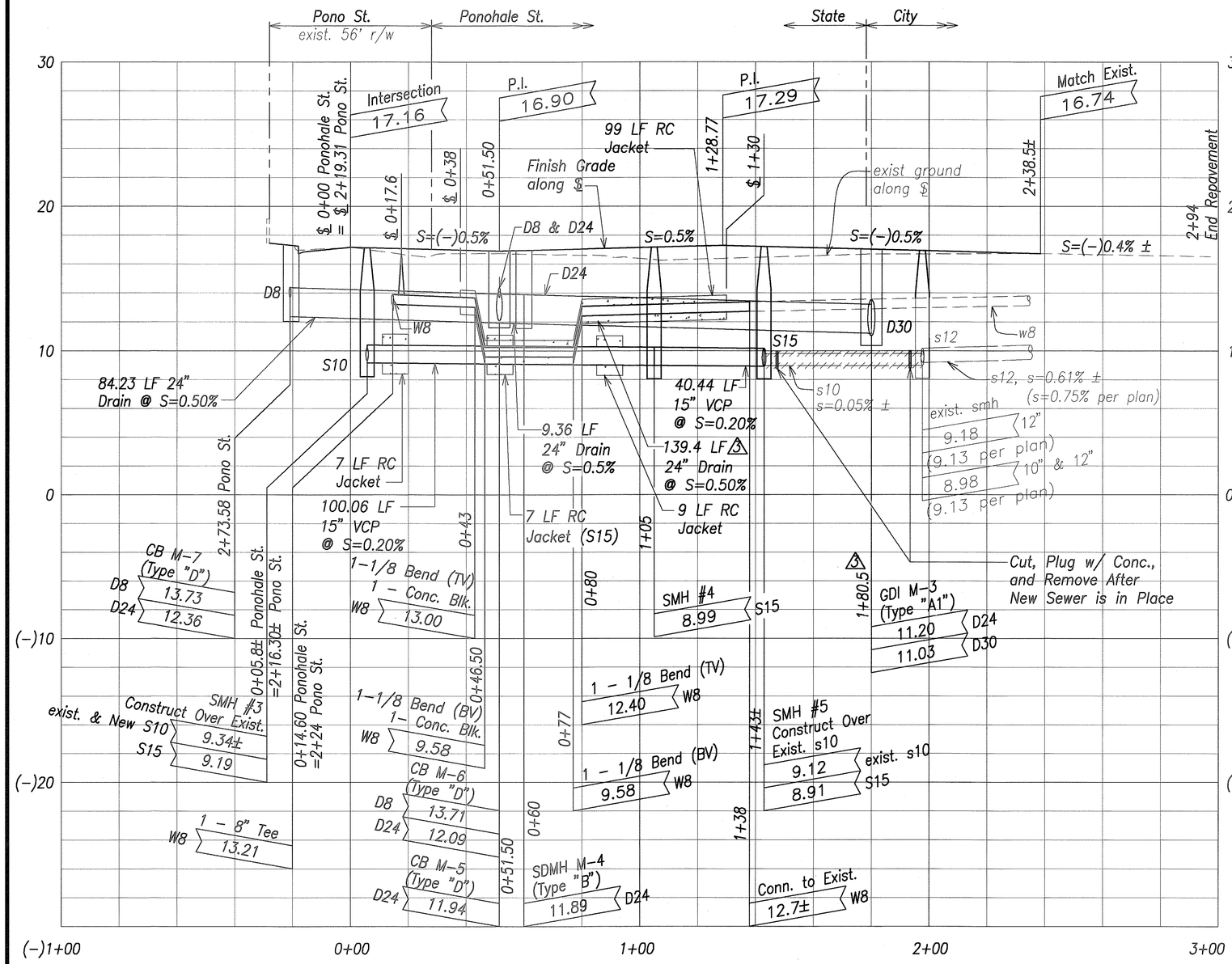
SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

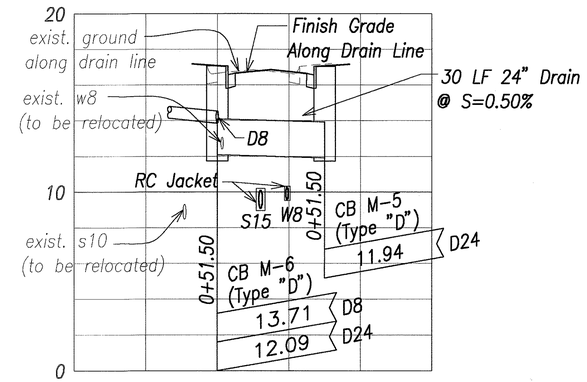
SHEET No. AC4.20 OF 350 SHEETS

RMTC JOB NO.: 1–19369–0E

ADD. 75

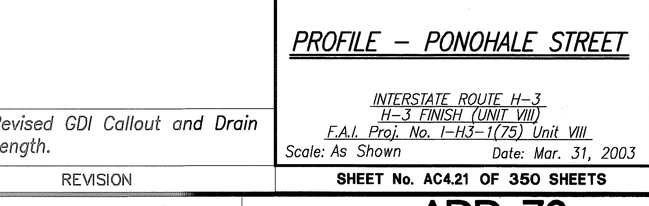
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 76	816





Drain Profile – CB M-5 To CB M-6

Scale: Horiz. 1" = 20'
Vert. 1" = 4'



Sewer Profile – SMH #5 To SMH #6

Scale: Horiz. 1" = 20'
Vert. 1" = 4'

SMH Segment	#3 to #4	#4 to #5	#5 to #6
Q_R =	0.470 MGD	0.470 MGD	0.470 MGD
Q_A =	1.599 MGD	1.599 MGD	1.599 MGD
V_R =	0.593 fps	0.593 fps	0.593 fps
V_A =	2.018 fps	2.018 fps	2.018 fps
n =	0.015	0.015	0.015
d =	15"	15"	15"
S =	0.20%	0.20%	0.20%

Profile – Ponohale Street

Scale: Horiz. 1" = 20'
Vert. 1" = 4'

Graphic Scales

Horiz.: 1" = 20' — 20' 10' 0 20' 40'

Vert.: 1" = 4' — 4' 2' 0 4' 8'

APPROVED:

Wayne Nakamura
Chief, Wastewater Branch, DPP — 7/22/03 Date

Joseph W Kaahea
Principal Executive, Maintenance Unit, BWS$_{00}$ — 7/8/03 Date

DATE	REVISION
6/20/03	⚠3 Revised GDI Callout and Drain Length.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 7/8/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE – PONOHALE STREET

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

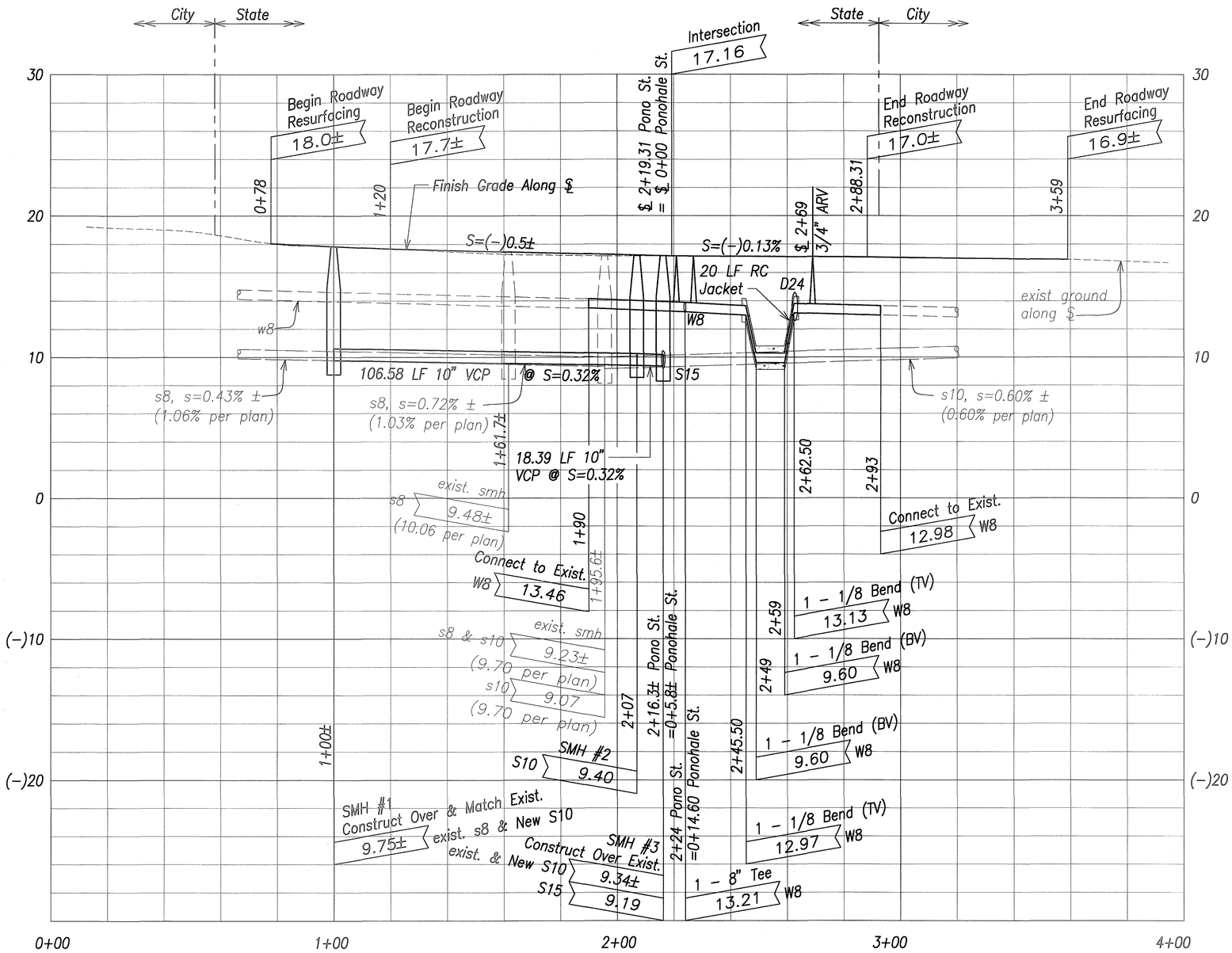
SHEET No. AC4.21 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

ADD. 76

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 77	816



Profile − Pono Street

Scale: Horiz. 1" = 20'
Vert. 1" = 4'

Graphic Scales

Horiz.: 1" = 20' — 20' 10' 0 20' 40'

Vert.: 1" = 4' — 4' 2' 0 4' 8'

Sewer Flow Data

SMH Segment	#1 to #2	#2 to #3
Q_R =	Negligible	Negligible
Q_A =	0.700 MGD	0.700 MGD
V_R =	Negligible	Negligible
V_A =	2.004 fps	2.004 fps
n =	0.015	0.015
d =	10"	10"
S =	0.32%	0.32%

APPROVED: (5)

Chief, Wastewater Branch, DPP — 7/22/03 Date

Principal Executive, Maintenance Unit, BWS — 7/8/03 Date

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISON
10/16/03	(5) OBTAINED CITY APPROVALS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE − PONO STREET

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC4.22 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 77

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 78	816

TRUE NORTH
SCALE: 1" = 20'

Sta. "pod"
1/2" pipe (fnd)
82919.83 N
516842.64 E
El.=24.99

Conn. to Exist. Fence
H-1 ℄ Sta. 111+59.3±,
o/s 139.2'± Lt.

6' Chain Link Fence
w/out Top Rail. (For
Det., see Std. Plan D-02)
△5

Corner of Fence
H-1 ℄ Sta. 111+79,
o/s 85.9' Lt.

6' Chain Link Fence w/
Top Rail. (For Det., see
Std. Plan D-01)
△5

Conn. to Exist. Fence
H-1 ℄ Sta. 111+79,
o/s 20' Lt.

Regrade to Restore
Eroded Slope
(2:1 Max Slope)

Place GRP Blanket up
to Abutment Wall Face

Limits of
GRP Blanket

Limits of
Gravel Blanket

exist. "NO PARKING" sign

exist. R/W

Limits of Construction Parcel, Typ.

exist. "NO PARKING" sign and exist. "lane designation" sign

End ET 2000
H-1 ℄ Sta. 112+58.5±,
o/s 136.3' ± Lt.

End Treatment
(ET 2000). For
Det., see Sht.
AC5.3.

Kaahele Street (City)

4+00

City

State

50'

3+00

20.8'±

New Viaduct
Column, Typ.

New Viaduct
Footing, Typ.

143°37'15"
250.91'

Sta. "under"
on conc.
82717.82 N
516691.46 E
El.=16.85

exist. "The Bus" sign

H-1 ℄ Sta. 111+44
12" Irrigation Sleeve
△5

112+00

2+00

292°30'45"
8.51'
(Tie to H-1 ℄ Sta. 113+00)

edge of exist.
viaduct (above)

exist. R/W

tmk: 9-8-08:15

tmk: 9-8-08:23

tmk: 9-8-08:14

111+00

113+00

Waimalu Stream Channel

Conn. to Exist. Fence
H-1 ℄ Sta. 112+68.9±,
o/s 115.8' ± Lt.

exist. "SPEED LIMIT" sign

6' Chain Link Fence
w/out Top Rail. (For Det.,
see Std. Plan D-02)

Conn. to Exist. Fence
H-1 ℄ Sta. 112+91.2±,
o/s 93.6'± Lt.

Conn. to Exist. Fence
H-1 ℄ Sta. 113+37.2±,
o/s 116'± Lt.

Chain Link Gate,
8' High and 16' Wide
H-1 ℄ Sta. 113+55,
o/s 113' Lt.
4" Irrigation Sleeves

New R/W

15'

5'

291°24'54"
189.29'

Strong Post W-Beam
For Det., see Sheet
AC5.2

242°33'53"
136.66'

Conn. to Exist. Guardrail
H-1 ℄ Sta. 112+82.2±
o/s 68.9' ± Lt.

exist. "The Bus"
sign

10'

tmk: 9-8-26:29

tmk: 9-8-26:28

tmk: 9-8-26:30

8' Chain Link Fence
w/out Top Rail

(State)

Edge of Widened
Viaduct (Above)

Sta. "goat"
1/2" rebar
82780.78 N
516812.75 E
El.=13.17

8' High Chain Link
Fence w/ 3 Strand
Barbed Wire

exist. lined ditch
(to be removed)

Limits of 2"
Gravel Mulch
△5

Limits of A.C. Pavement
Install 6" Conc. Header
Where A.C. Is Not Along
Fence. For Det., see
Sheet AC4.26, Typ.

H-1 ℄ Sta. 114+61',
o/s 85.54' Lt.

114+00

115+00

℄ Interstate Route H-1

8' High Chain Link
Fence w/ 3 Strand
Barbed Wire

exist. lined ditch
to be replaced
(See Sheet AC7.16)

Limits of AC Pavement

H-1 ℄ Sta. 114+23.66,
o/s 86' Rt.

M.L. ℄ Sta. 115+50

Graphic Scales

1" = 20'

20' 10' 0 20' 40'

Scale in Feet

Legend

- Construction Parcel
- A.C. Pavement
- 6" Gravel Layer Over Weed Barrier △3
- 2" Gravel Mulch △5

Notes:

1. For Gravel Blanket detail, see Sheet AC4.26.
2. For A.C. Pavement detail, see Sheet AC4.26.
3. For GRP Blanket detail, see Sheet AC4.26.
4. For Irrigation Sleeve detail, see Sheet AC5.11.
5. For Chain Link Fence and Gate Details, see Sheets AC5.12, AC5.13, & AC5.14.
6. For 2" Gravel Mulch Detail, See Sheet L-20. △5

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/16/03	△5 Revised Limits of Gravel Blanket; Added 2" Gravel Mulch.
6/20/03	△3 Revised Legend and Limits of GRP and Gravel Blanket; Added 12" Irrigation Sleeve.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SITE PLAN
BELOW VIADUCT - 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

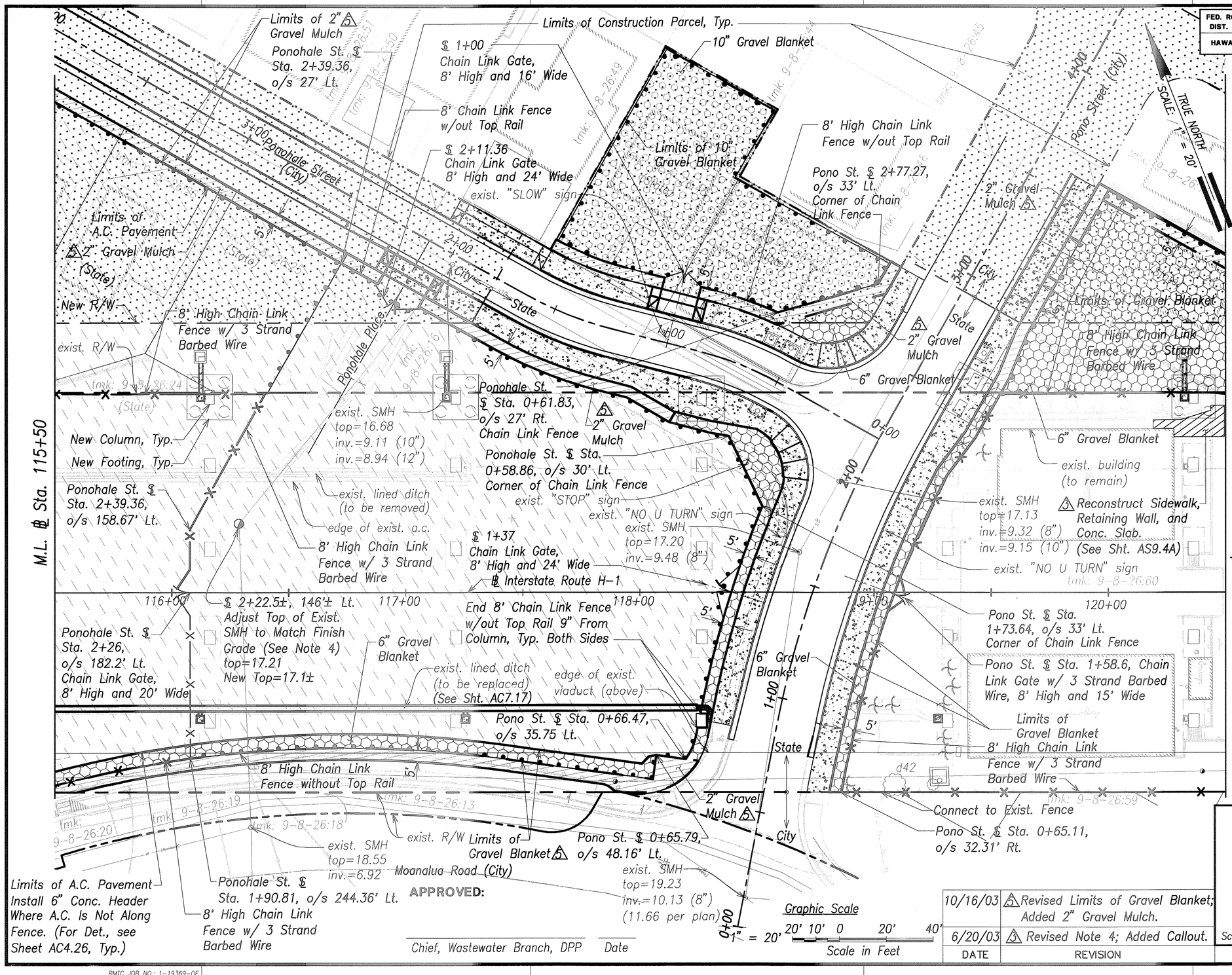
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC4.23 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 78

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 79	816



Notes:

1. For Gravel Blanket details, see Sheet AC4.26.
2. For A.C. Pavement detail, see Sheet AC4.26.
3. For Chain Link Fence and Gate Details, see Sheets AC5.12, AC5.13, & AC5.14.
4. For SMH adjustments upward (3) < 3", see C&C Std. Detail S-25. For SMH adjustments upward > 3" or for any downward, reconstruct SMH top from below the cone section. (Typ.)
5. Exist. lots acquired by the State to be cleared and grubbed by others under House Demolition Work. Work includes removal of all utilities within the acquired lot. These lots shall remain vacant.
6. For 2" Gravel Mulch Detail, see Sheet L-20. (5)

Legend

- Construction Parcel
- A.C. Pavement
- 6" Gravel Blanket Over Weed Barrier 10" Gravel Blanket Over Permeable Separator
- 2" Gravel Mulch (5)

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/16/03	(5) Revised Limits of Gravel Blanket; Added 2" Gravel Mulch.
6/20/03	(3) Revised Note 4; Added Callout.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SITE PLAN

BELOW VIADUCT - 2

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

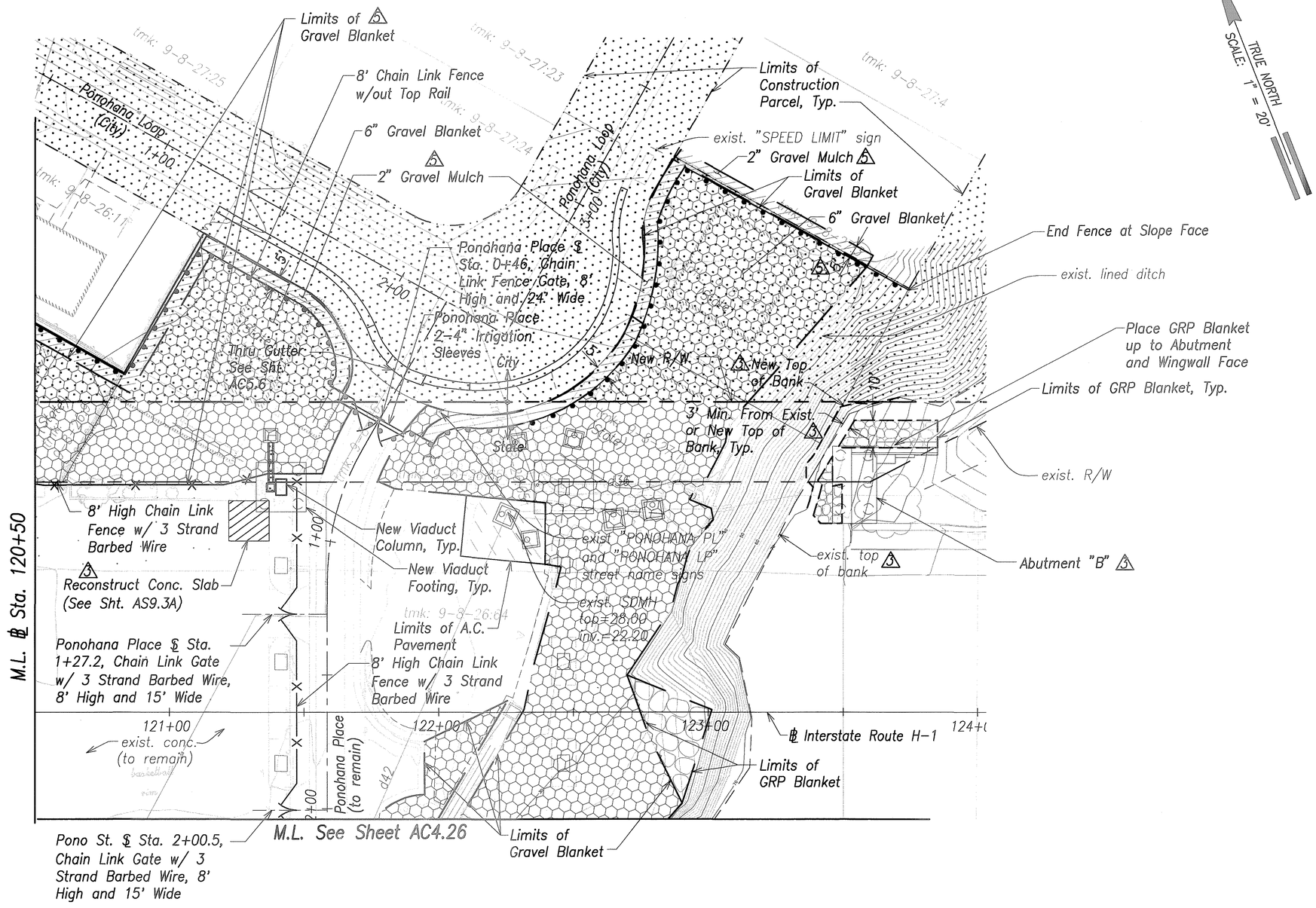
SHEET No. AC4.24 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

ADD. 79

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 80	816



Legend

- Construction Parcel
- A.C. Pavement
- 6" Gravel Layer 5 Over Weed Barrier
- GRP Blanket
- 2" Gravel Mulch 5

Notes:

1. For Gravel Blanket Detail, see Sheet AC4.26.
2. For A.C. Pavement Detail, see Sheet AC4.26.
3. For GRP Blanket Detail, see Sheet AC4.26.
4. For Irrigation Sleeve Detail, see Sheet AC5.10.
5. For Drainage System, see Sheet AC7.18.
6. For Chain Link Fence and Gate Details, see Sheets AC5.12, AC5.13, AC5.14.

5 7. For 2" Gravel Mulch Detail, see Sheet L-20.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 10/17/03 April 30, 2004 EXPIRATION DATE OF THE LICENSE

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised Limits of Gravel Blanket; Added 2" Gravel Mulch.
6/20/03	3 Revised Callout; Added Callouts and New Top of Bank.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SITE PLAN

BELOW VIADUCT - 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

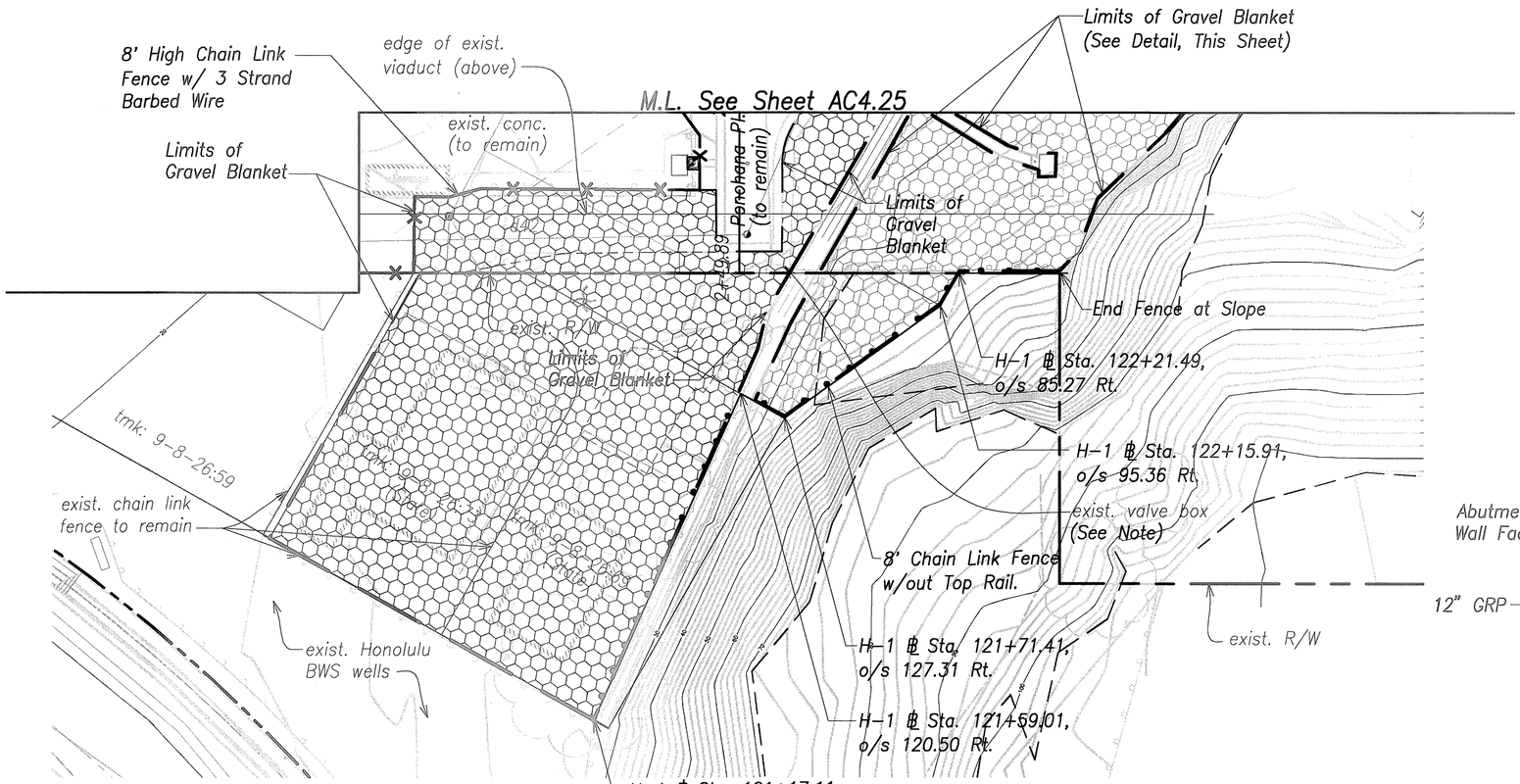
Scale: 1"=20' Date: Mar. 31, 2003

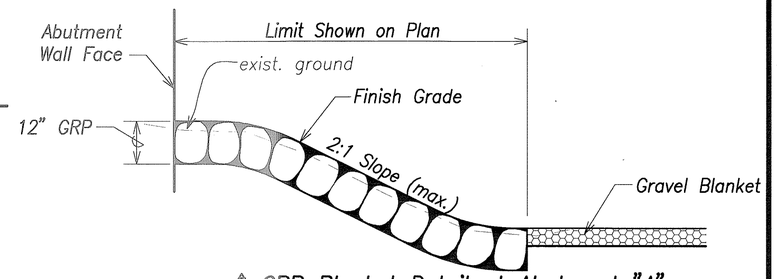
SHEET No. AC4.25 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

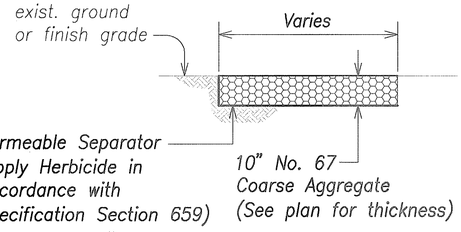
ADD. 80

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 81	816

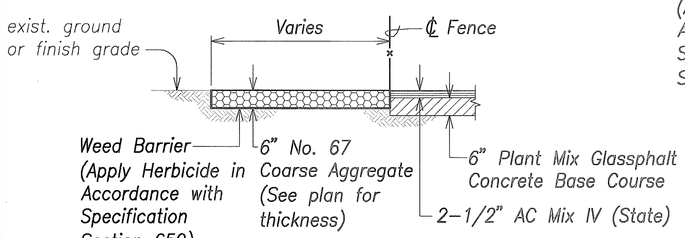




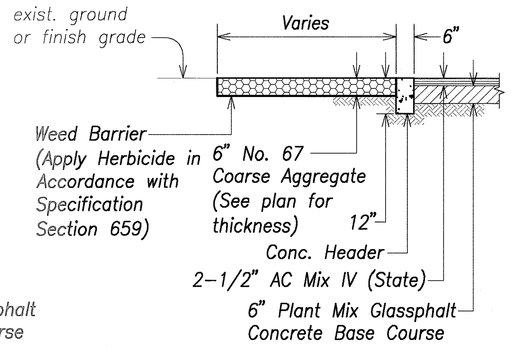
⚠3 GRP Blanket Detail at Abutment "A"
Scale: 1/2" = 1'-0"



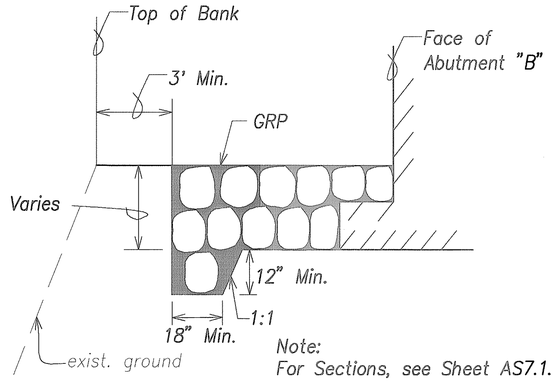
10" Gravel Blanket Detail
Scale: 1/2" = 1'-0"



6" Gravel Blanket And A.C. Pavement Detail
Scale: 1/2" = 1'-0"



6" Gravel Blanket And A.C. Pavement Detail (With Concrete Header)
Scale: 1/2" = 1'-0"



⚠3 GRP Blanket Detail at Abutment "B"
Scale: NTS

Graphic Scale
1" = 20'
20' 10' 0 20' 40'
Scale in Feet

6/20/03	⚠3 Revised GRP Blanket Detail.
DATE	REVISION

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.
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SIGNATURE
April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SITE PLAN
BELOW VIADUCT - 4

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

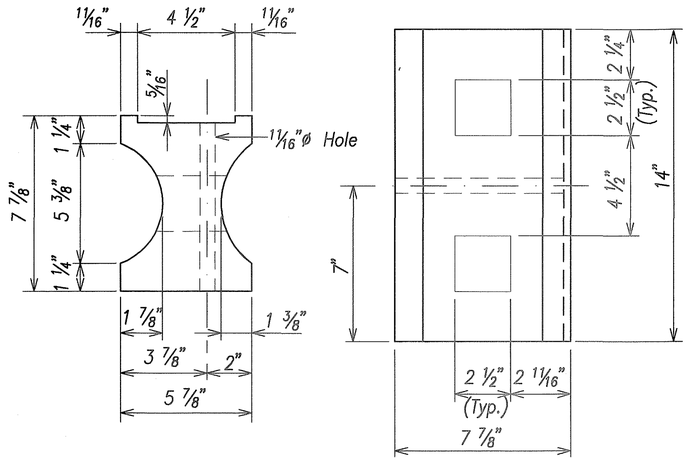
SHEET No. AC4.26 OF 350 SHEETS

ORIGINAL PLANS | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE | No.

RMTC JOB NO.: 1-19369-0E

ADD. 81

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	82	816

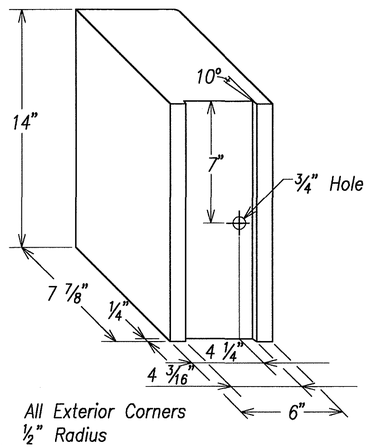


Top

Side

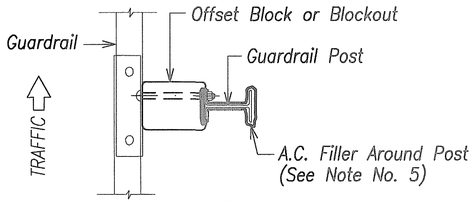
Recycled Plastic Blockout (Type I)

Scale: Not To Scale

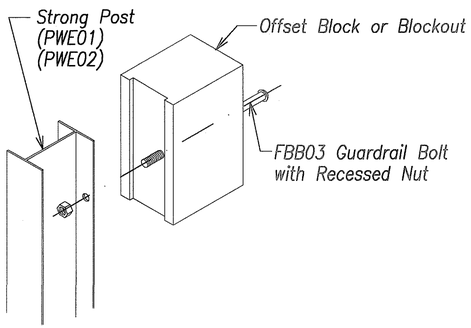


Recycled Polyethylene Offset Block (Type II)

Scale: Not To Scale



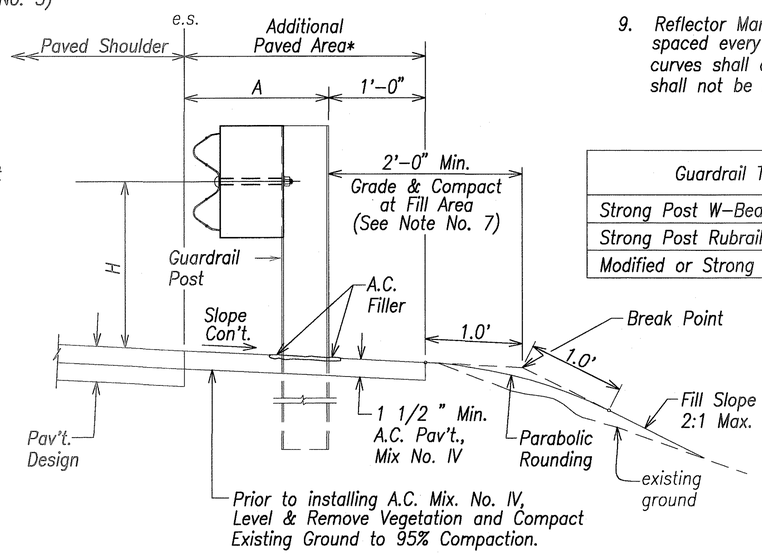
Plan



Exploded View
(Rail and Washer Not Shown)

Steel Post And Block Detail

Scale: Not To Scale



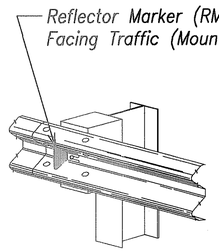
Elevation
Typical Guardrail Installation

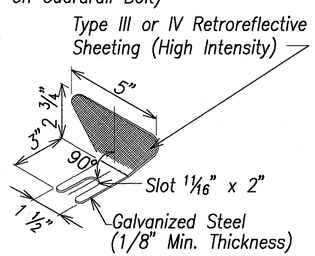
Scale: Not To Scale

General Notes

1. All Hardware, Posts and Fasteners shall be Hot-Dip Zinc Coated Galvanized after fabrication. No punching, drilling or cutting will be permitted after galvanizing.
2. Where conditions require, special post lengths in increments of 6 inches may be specified.
3. All Fasteners, Posts, and Rail Elements (i.e. FBB03, PWE01, RWM02b, etc.) shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware," a Report Prepared and Approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee, Subcommittee On New Highway Materials, Task Force 13 Report. Dimensions of Fasteners, Posts and Rail Elements have been converted from metric units into their present form.
4. The Recycled Plastic Block or Offset Block shall be approved by the State.
5. All new Guardrail Systems (System consists of total length of Guardrail including both End Treatments) shall include the additional paved area.
6. After the gurdrail posts are installed in the paved area, the Contractor shall fill/seal around each guardrail post and all cracks in the paved area caused during the guardrail post installation. If required by the inspesctor/engineer, the Contractor shall tamper the paved area around the guardrail post prior to filling/sealing. All costs associated with this work shall not be paid for separtely, but shall be considered incidental to the various guardrail items.
7. When standards for the Fill Slope area cannot be met, a Site Specific, Engineer-approved design may be used.
8. New A.C. Pavement at Guardrails shall extend 6 feet longitudinally beyond Terminal Ends.
9. Reflector Markers (RM-5) mounted on Guardrails shall be spaced every 25 feet. Spacing of RM-5's on horizontal curves shall comply with Table 3D-1 of the MUTCD. RM-5's shall not be installed on Terminal Sections.

Guardrail Type	Dimension	
	H	A
Strong Post W-Beam	1'-9 5/8"	1'-6"
Strong Post Rubrail (W-Beam)	2'-0"	1'-6"
Modified or Strong Post Thrie Beam	2'-0"	2'-0"





Reflector Marker (RM-5) Detail And Typical Installation

Scale: Not To Scale

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

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL DETAILS AND NOTES

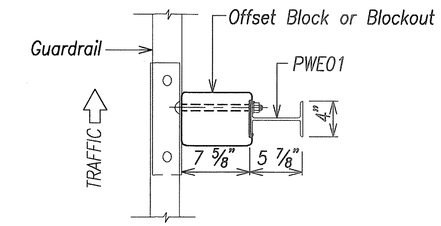
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale — Date: Mar. 31, 2003

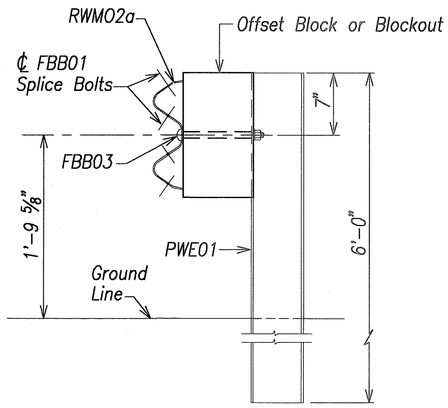
SHEET No. AC5.1 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	83	816



Plan



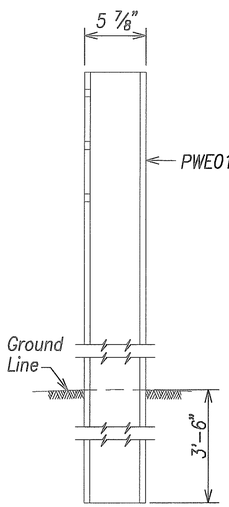
Elevation

Strong Post W-Beam Guardrail

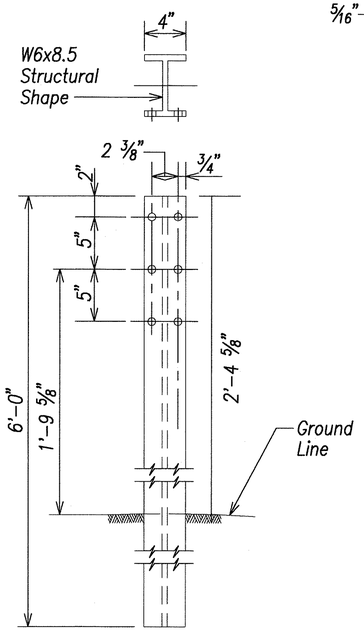
(SGR04a)

Scale: Not To Scale

NOTE:
All Holes are
¾" Dia.



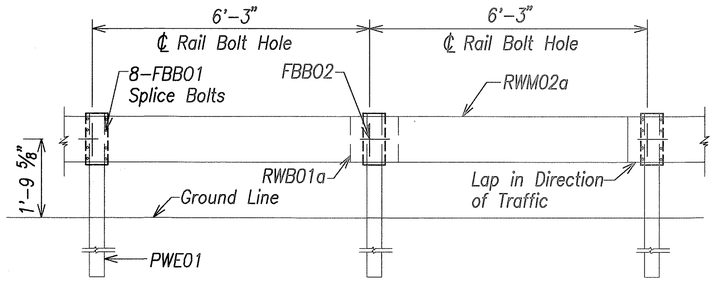
Side



Front

W-Beam Strong Post (PWE01)

Scale: Not To Scale

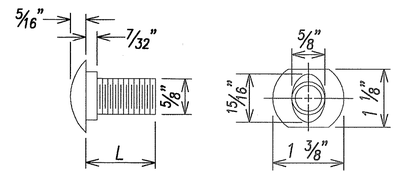


Elevation

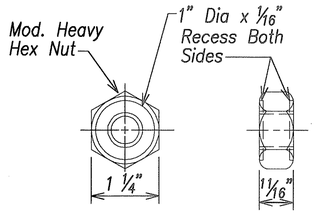
Strong Post W-Beam Guardrail With

Recycled Offset Block Or Plastic Blockout

Scale: Not To Scale



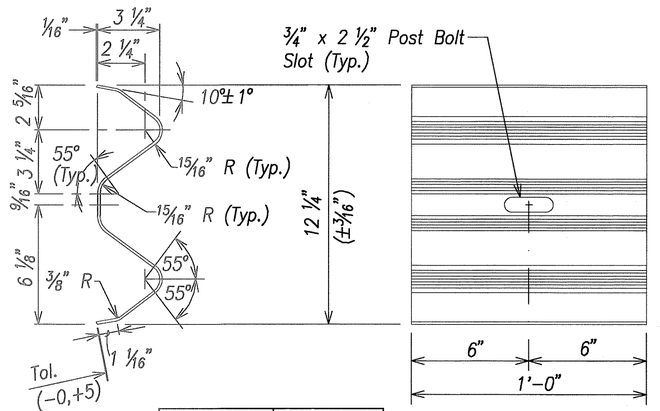
Designator	L
FBB01	1 ⅜"
FBB02	2"
FBB03	10"



Guardrail Bolts And

Recessed Nut

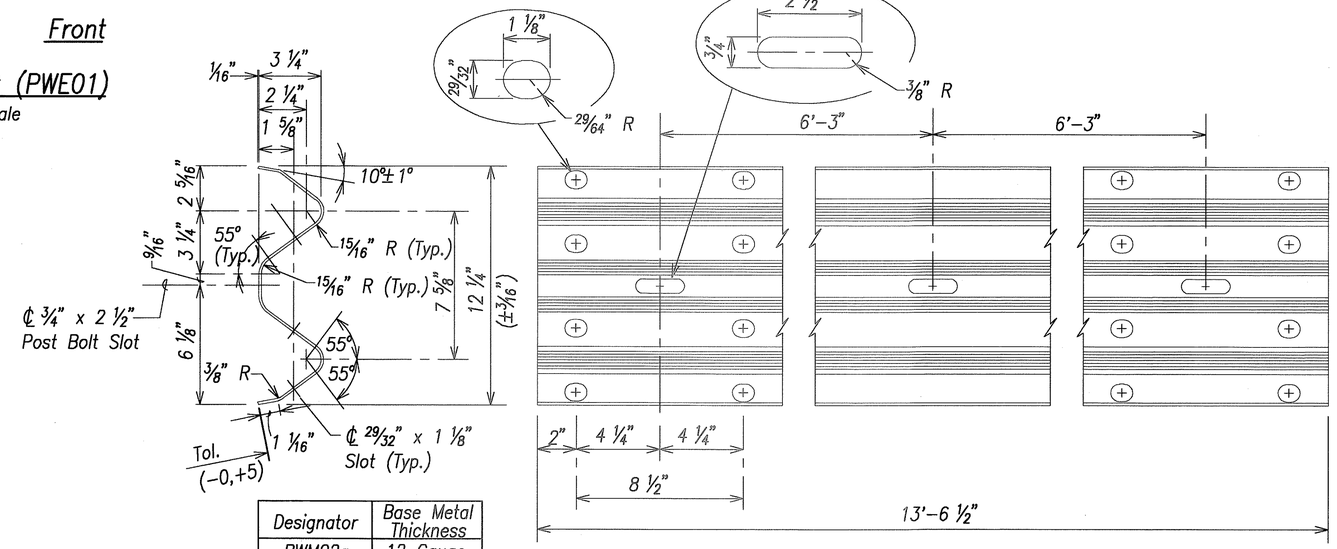
Scale: Not To Scale



Designator	Base Metal Thickness
RWB01a	12 Gauge

W-Beam Back-Up-Plate (RWB01a)

Scale: Not To Scale



Designator	Base Metal Thickness
RWM02a	12 Gauge

2 Space W-Beam Guardrail (RWM02a)

Scale: Not To Scale

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRONG POST W-BEAM GUARDRAIL DETAILS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

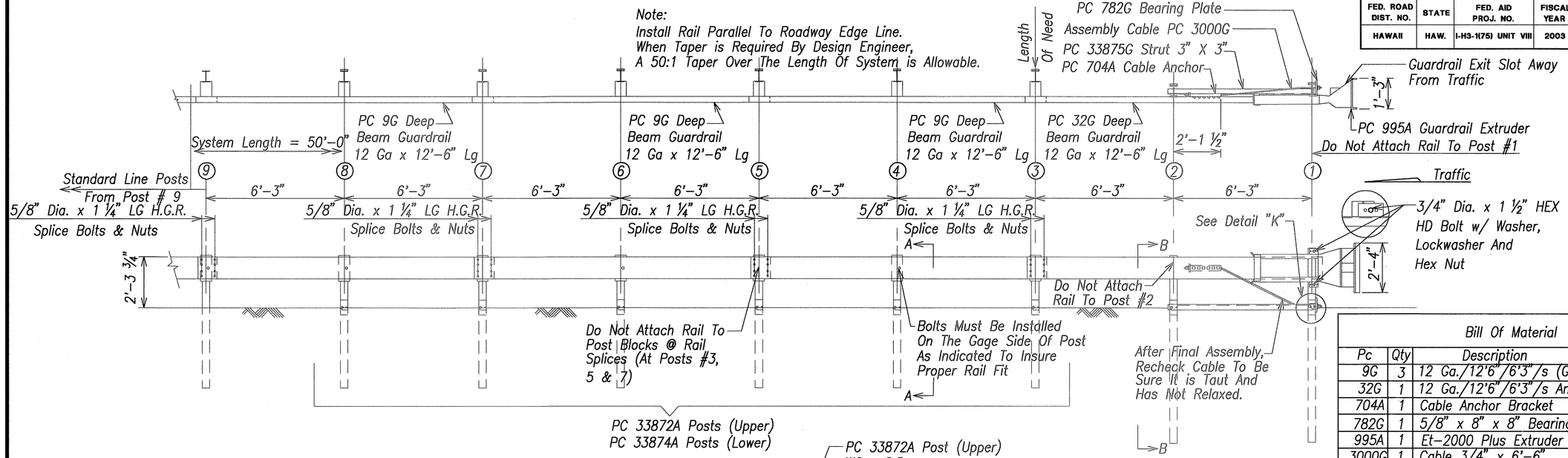
Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC5.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

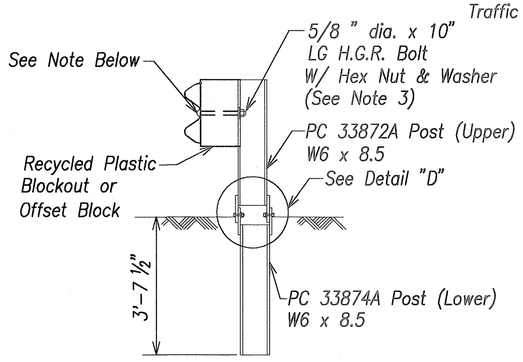
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	84	816

Note:
Install Rail Parallel To Roadway Edge Line.
When Taper is Required By Design Engineer,
A 50:1 Taper Over The Length Of System is Allowable.



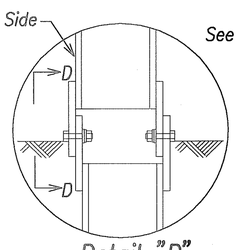
Notes:

1. Do Not Attach Guardrail To Post # 1.
2. Do Not Attach Guardrail To Post Blocks At Guardrail Lap Splices. (at Posts #3, 5 & 7)
3. The 5/8 " Flat Washer is Used Under The Nut, Behind The Post Only. No Washer is Used At The Rail.
4. Manufacturer Suggests Customer To Provide Reflectorization of Terminal.

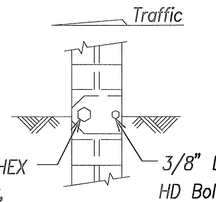


Note:
Section "A-A" is Similar @ Post #3, 5 & 7.
Except Rail is Not Attached.

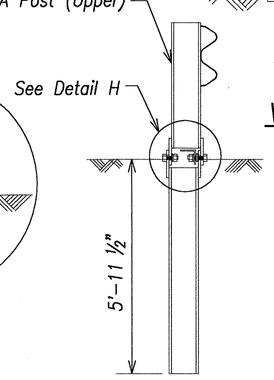
Section "A-A"
(Typ. @ Posts #4, 6 & 8)



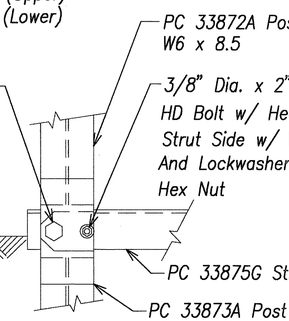
Detail "D"



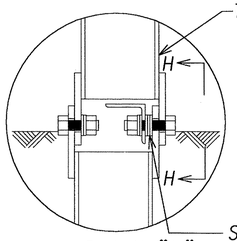
View "D-D"



Section "B-B"
(Post #2)

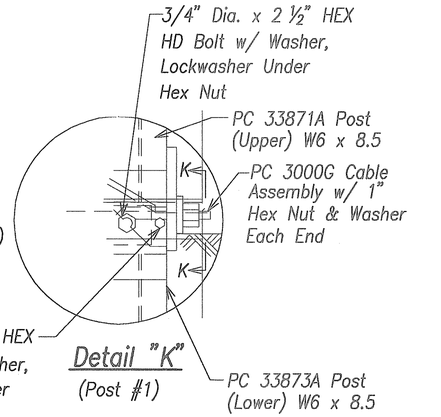


View "H-H"

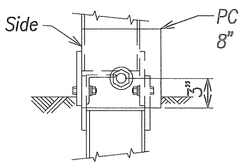


Detail "H"
(Post #2)

Stack 2-3 Washers on 3/4" Dia. Bolt Between Post Pl & Strut To Allow Strut To Pass Over 3/8" Dia. Bolt Head.



Detail "K"
(Post #1)



View "K-K"

Bill Of Material		
Pc	Qty	Description
9G	3	12 Ga./12'6"/6'3"/s (Guardrail)
32G	1	12 Ga./12'6"/6'3"/s Anc (Guardrail)
704A	1	Cable Anchor Bracket
782G	1	5/8" x 8" x 8" Bearing Plate
995A	1	Et-2000 Plus Extruder
3000G	1	Cable 3/4" x 6'-6"
3300G	6	5/8" Washer
3340G	38	5/8" Hex Nut
3360G	32	5/8" Dia. x 1 1/4" Splice Bolt
3500G	6	5/8" Dia. x 10" Post Bolt
3701G	19	3/4'' Washer
3704G	16	3/4" Hex Nut
3717G	15	3/4" Dia. x 2 1/2" Hex Hd Bolt
3718G	1	3/4" Dia. x 3" Hex Hd Bolt
3900G	2	1" Washer
3910G	2	1" Hex Nut
5326B	6	Recycled Plastic Blockout Or Offset Block
4254G	18	3/8'' Washer
4255G	2	3/8" Fender Washers
4258G	16	3/8'' Lockwasher
4261G	2	3/8" Dia. x 1 1/2" Hex Hd Bolt
4699G	16	3/4'' Lockwasher
6321G	16	3/8" Dia. x 2" Hex Hd Bolt
6405G	18	3/8" Hex Nut
33871A	1	Et2000 Hba Post #1 Top
33872A	7	Et2000 Hba Post #2-#8 Top
33873A	2	Et2000 Hba Post #1-#2 Bottom
33874A	6	Et2000 Hba Post #3-#8 Bottom
33875G	1	6'-6" Angle Strut Et Hba

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ET - 2000 DETAILS

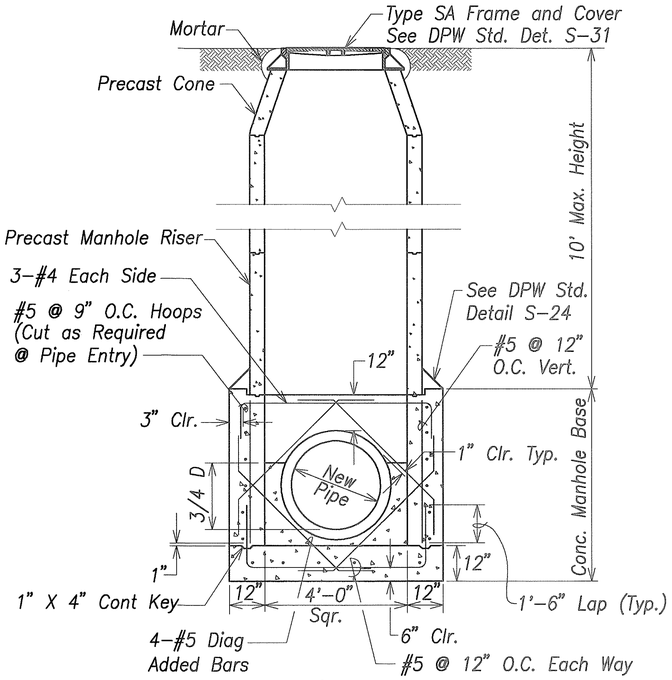
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale — Date: Mar. 31, 2003

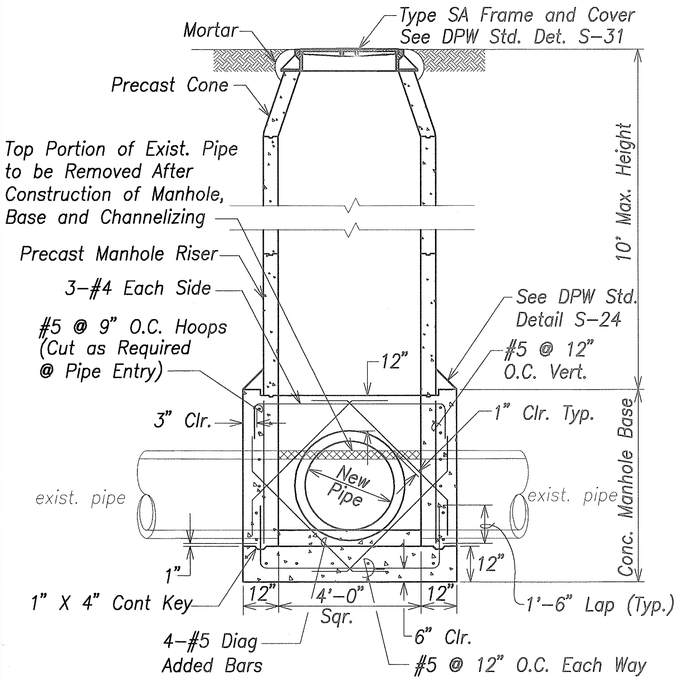
SHEET No. AC5.3 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

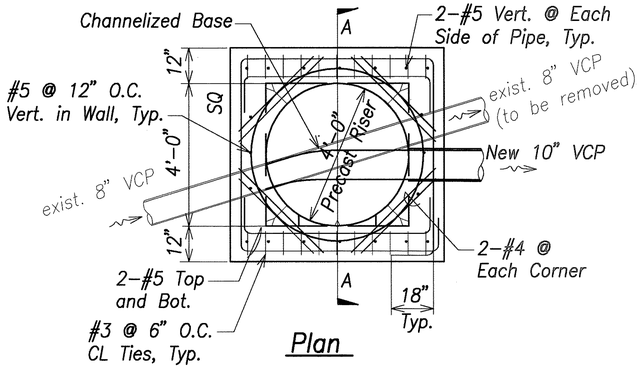
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 85	816



Section A-A



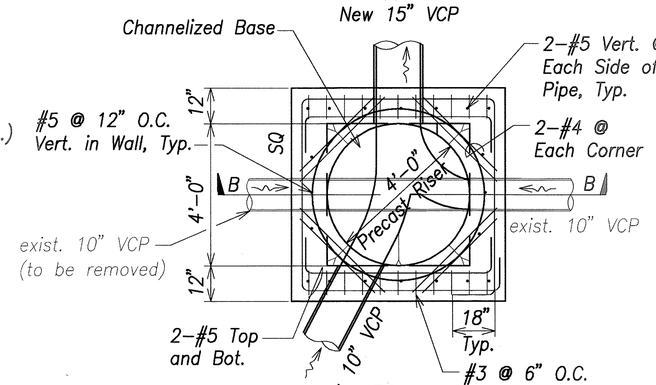
Section B-B



Plan

SMH #1 - Construction Over Existing Pipe

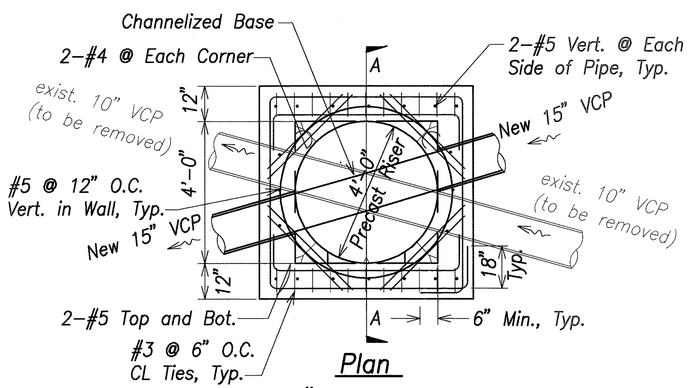
Scale: Not To Scale



Plan

SMH #3 - Construction Over Existing Pipe

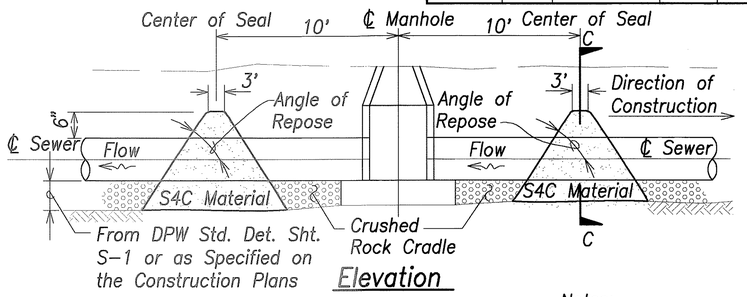
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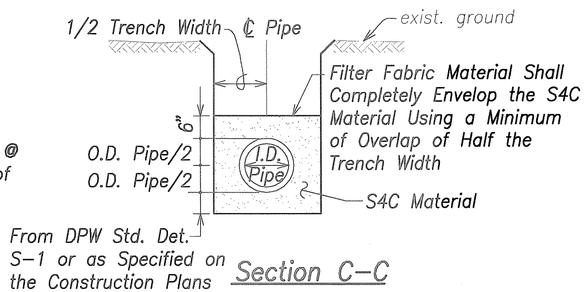
Plan

SMH #5 - Construction Over Existing Pipe

Scale: Not To Scale



Elevation



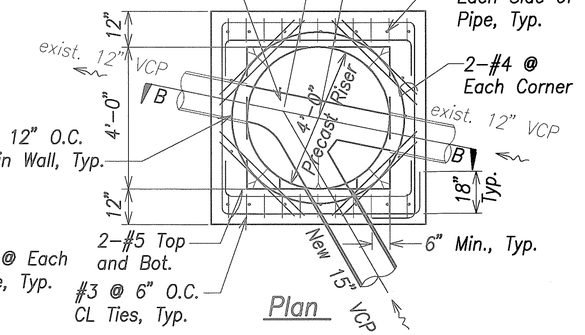
Section C-C

Pipe Cradle and Seal Detail

Scale: Not To Scale

Notes:

1. Seals shall be placed 10 ft. upstream and downstream each manhole.
2. The Contractor shall compact S4C material by ponding and draining. Upon draining, a vibratory machine shall be used until no visible evidence of further consolidation exists.
3. Seals shall be incidental to crushed rock cradle.



#5 @ 12" O.C. Vert. in Wall, Typ.

Plan

SMH #6 - Construction Over Existing Pipe

Scale: Not To Scale

APPROVED: (5)

Chief, Wastewater Branch, DPP — 7/22/03 Date

10/16/03	(5) OBTAINED CITY APPROVAL
DATE	REVISON

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SEWER DETAILS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

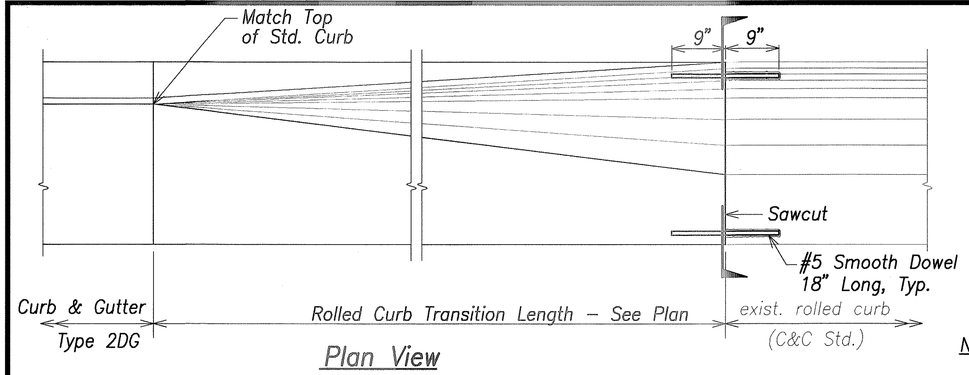
Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC5.4 OF 350 SHEETS

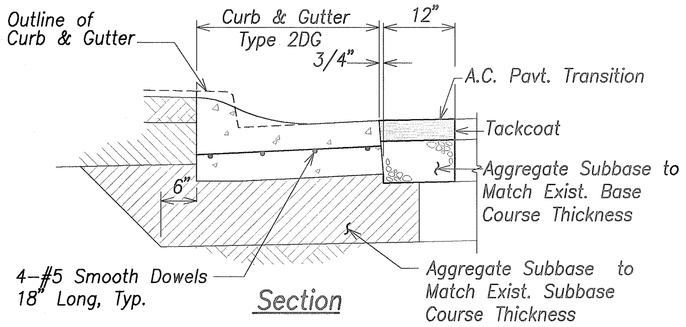
RMTC JOB NO.: 1-19369-0E

ADD. 85

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	86	816



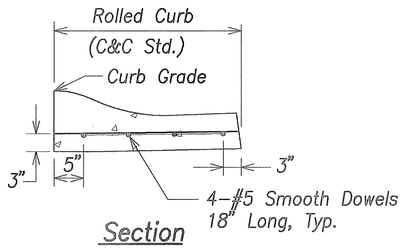
Plan View



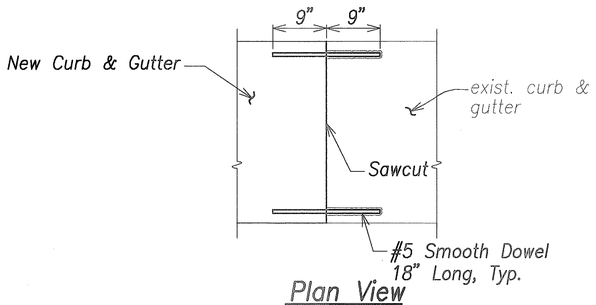
Section

Rolled Curb Transition Connection Detail

Scale: 1" = 1'–0"



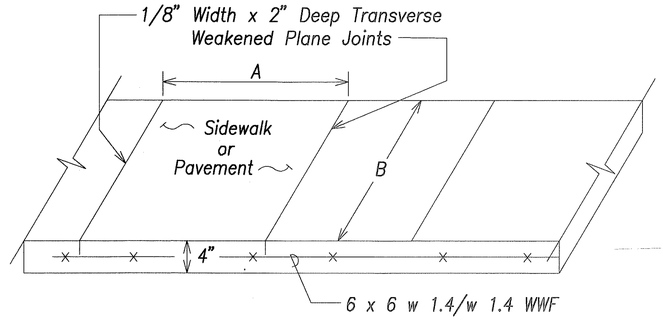
Section



Plan View

Rolled Curb Connection Detail

Scale: 1" = 1'–0"

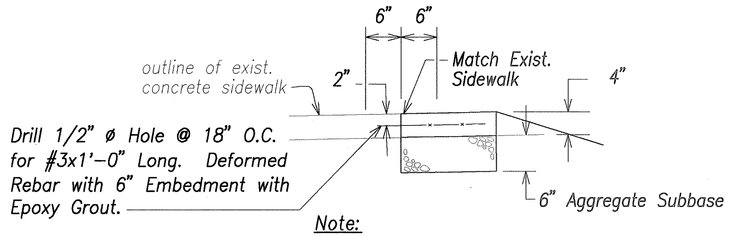


Notes:

1. Joint Dimension Ratios (B/A or A/B) < 1.25 and (A or B) not to exceed 7'.
2. Longitudinal weakened plane joints similar to transverse weakened plane joints.

Typical Sidewalk Detail

Scale: Not To Scale

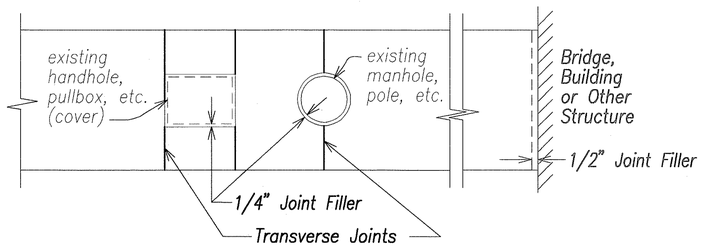


Note:

Do not install rebars within 4" of any planned transverse weakened plane joint or transverse construction joint.

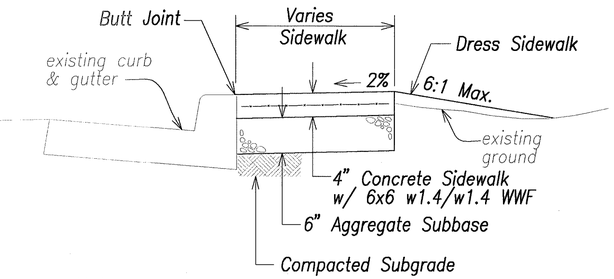
Longitudinal Joint At Existing Sidewalk

Scale: 1" = 1'–0"



Sidewalk Isolation Joint Detail

Scale: Not To Scale



Notes:

1. Dressing of sidewalk shall consist of clearing, grubbing, grading, reshaping and compacting the area adjacent to the improvement with suitable material as shown on the plans and/or as directed by the Engineer. If existing ground is asphalt or concrete surface, dress sidewalk with A.C. Pavement, Mix No. V. This work shall be considered incidental to the new sidewalk.
2. Transverse and longitudinal weakened plane joints for sidewalk shall be considered incidental to the new sidewalk.
3. Installation of tie bars including drilling, and epoxy grout shall be incidental to Sidewalk.

Sidewalk Detail

Scale: 1" = 1'–0"

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE — EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS – 1

SURFACE STREETS

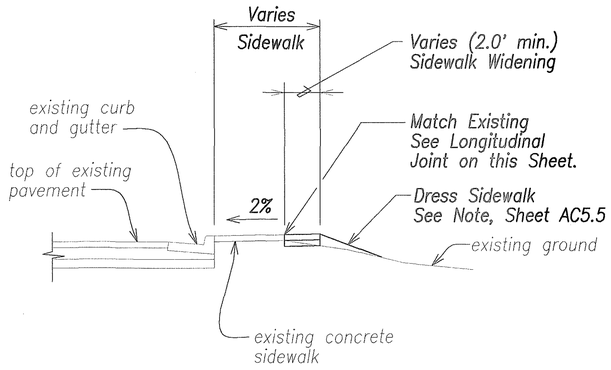
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown — Date: Mar. 31, 2003

SHEET No. AC5.5 OF 350 SHEETS

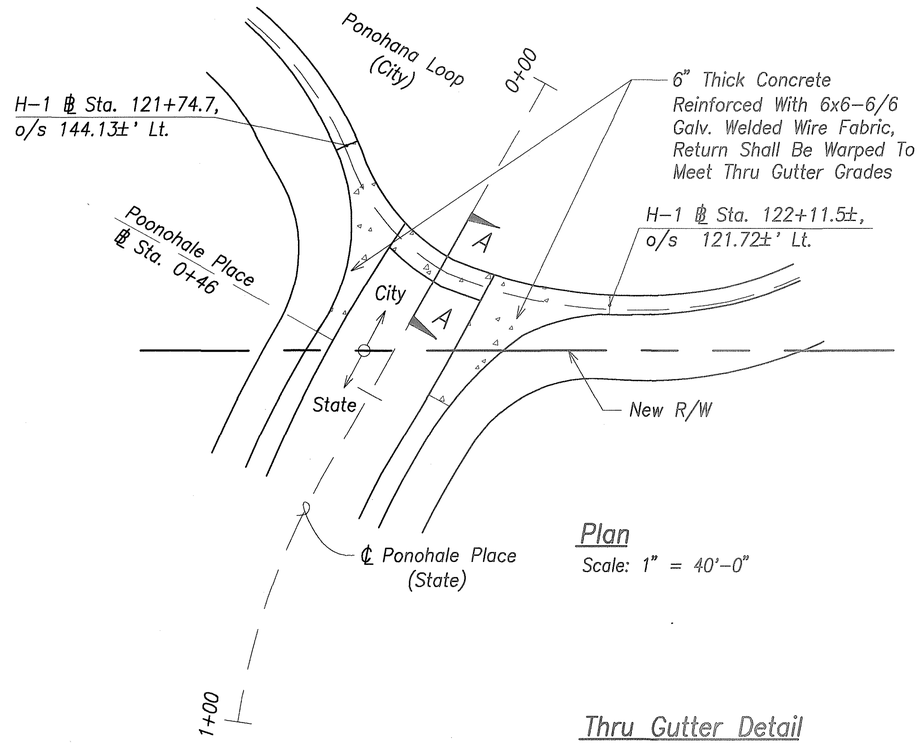
RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	87	816



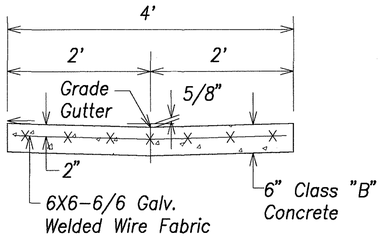
Sidewalk Widening Section

Scale: Not To Scale



Plan

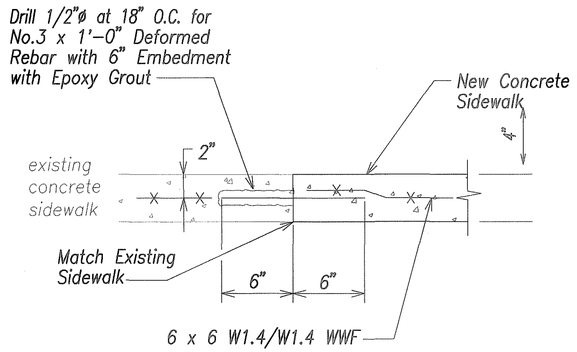
Scale: 1" = 40'-0"



Section A–A

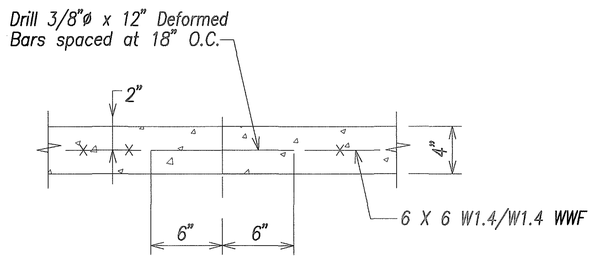
Scale: 1" = 1'-0"

Thru Gutter Detail



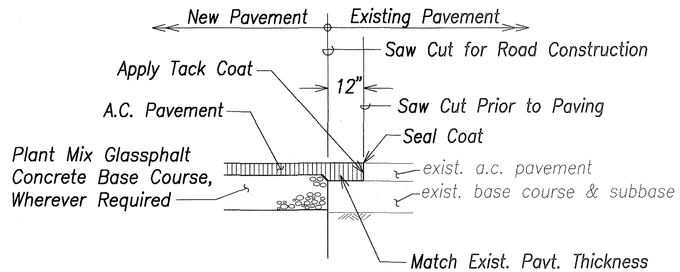
Transverse Joint At Existing Sidewalk

Scale: 1" = 1/2'-0"



Transverse Construction Joint Detail

Scale: 1" = 1/2'-0"



*For Road Pavement Section Thickness
See "Typical Sections" Shts. AC–1.13 to AC–1.14.

Pavement Connection

Scale: 1" = 2'-0"

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

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NOTE BOOK
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HIGHWAYS DIVISION

MISCELLANEOUS DETAILS – 2

SURFACE STREETS

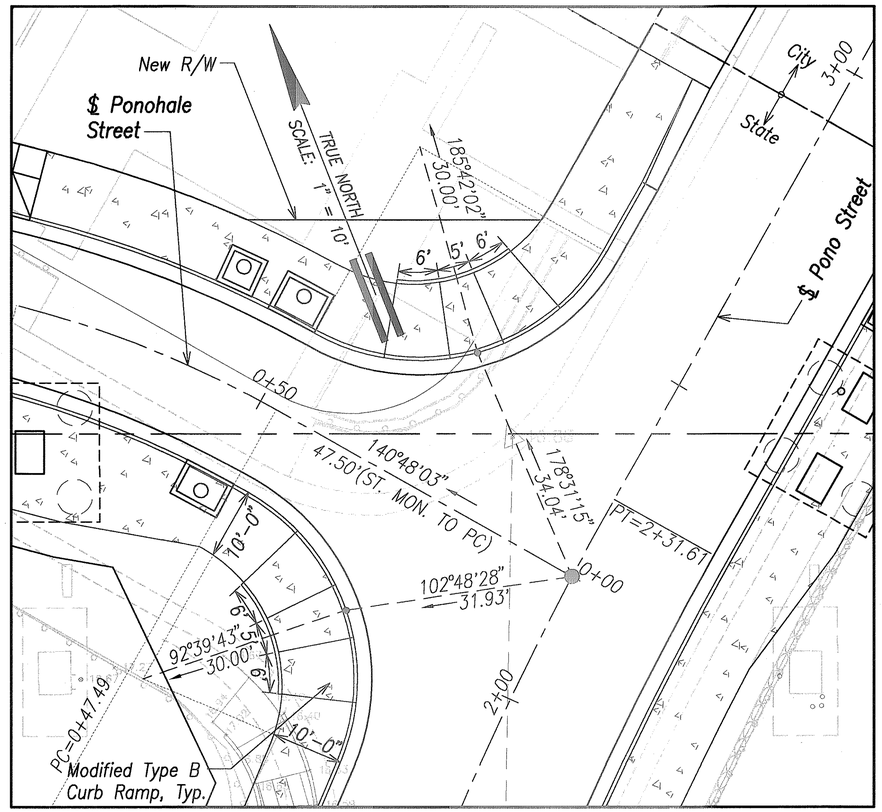
INTERSTATE ROUTE H–3
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Scale: As Shown Date: Mar. 31, 2003

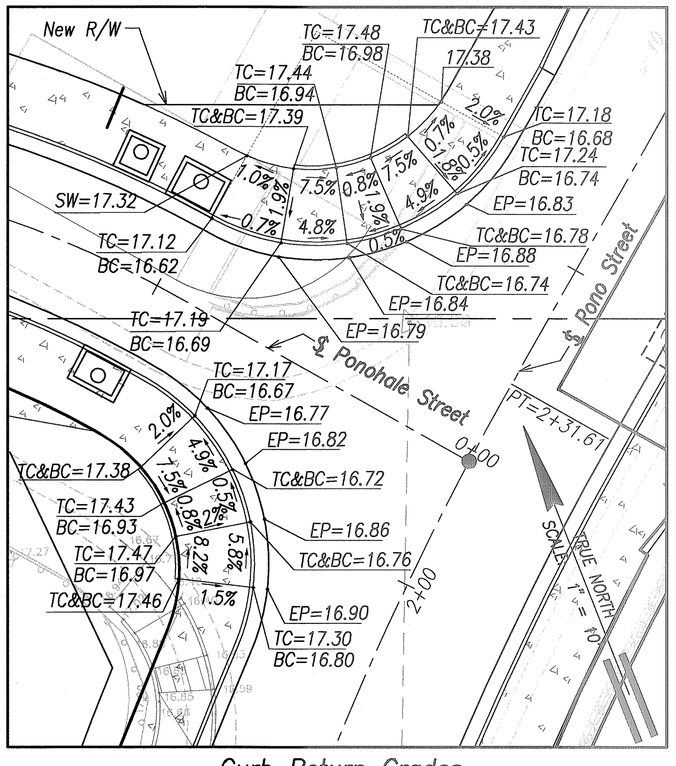
SHEET No. AC5.6 OF 350 SHEETS

RMTC JOB NO.: 1–19369–OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	88	816



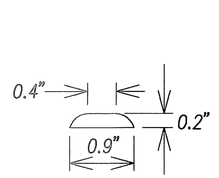
Plan – Curb Ramp
Scale: 1" = 10'



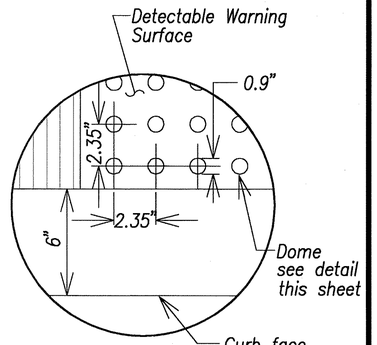
Curb Return Grades
Scale: 1" = 10'

Notes:

1. Detectable warnings shall be 24 inches in the direction of travel and extend the full width of the curb ramp or flush surface (does not include flares).
2. Truncated domes shall have a diameter of 0.9 inch at the bottom, a diameter of 0.4 inch at the top, a height of 0.2 inch and a center–to–center spacing of 2.35 inches measured along one side of a square arrangement.
3. Domes shall be aligned on a square grid in the predominant direction of travel to permit wheels to roll between the domes.
4. There shall be a minimum of 70 percent contrast in light reflectance between the detectable warning and an adjoining surface, or the detectable warning shall be "safety yellow".
5. The material used to provide visual contrast shall be an integral part of the detectable warning surface.
6. The detectable warning shall be located so that the edge nearest the curb line or other potential hazard is 6 to 8 inches from the curb line or other potential hazard, such as a reflecting pool edge or the edge of a transit platform.

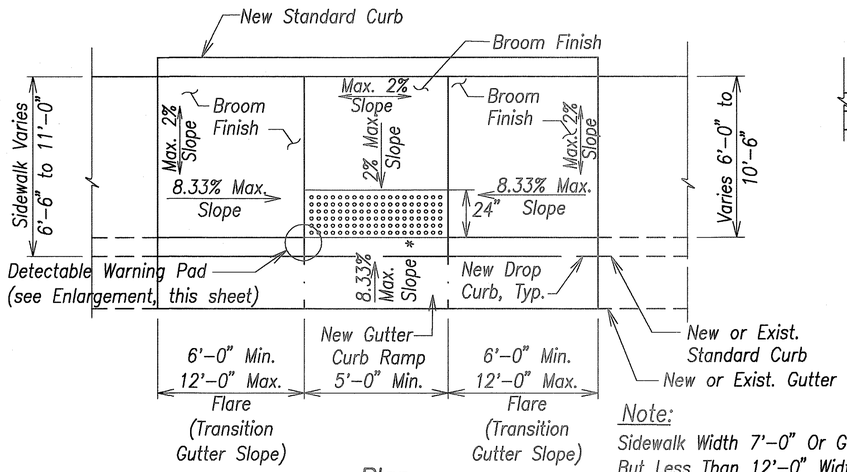


Dome Section
Scale: Not To Scale



Enlargement
Scale: Not To Scale

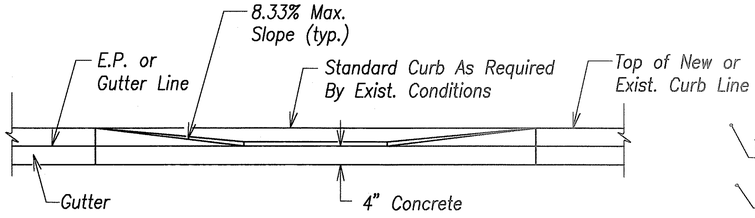
Detectable Warning Pad Detail



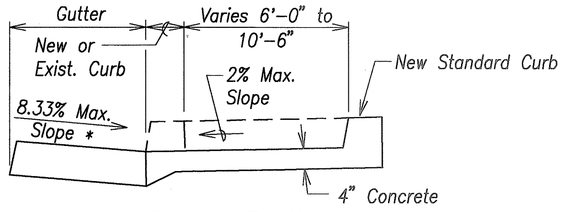
Plan

Note:
Sidewalk Width 7'–0" Or Greater But Less Than 12'–0" Width

Curb Ramp Type "B" Modified
Scale: Not To Scale



Elevation



Typical Section

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

Legend:

- TB/C=16.29 –Top of Back Curb
- TC=17.42 –Top of Curb
- BC=16.92 –Bottom of Curb
- FG=16.84 –Finish Grade (Pavt.)
- EP=16.84 –Edge of Pavt.
- SW=16.84 –Top of Sidewalk

GREG H. HIYAKUMOTO
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No. 6662–C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMPS
PONOHALE ST. & PONO ST.

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

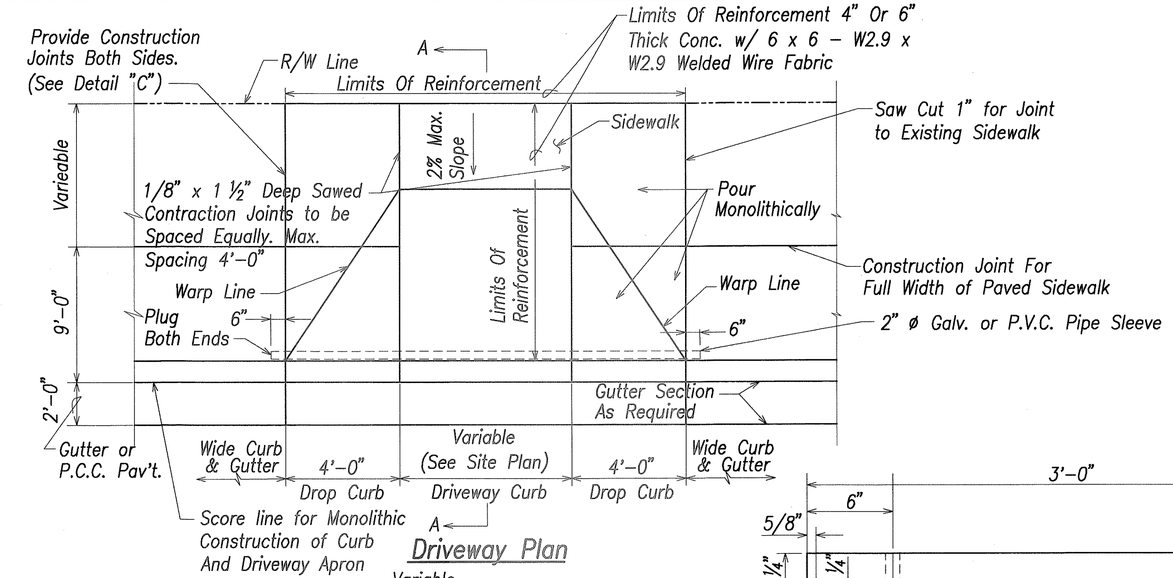
Scale: As Shown Date: Mar. 31, 2003

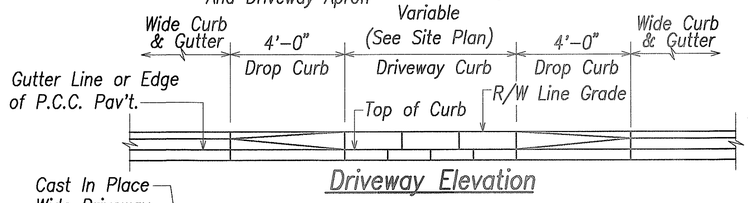
SHEET No. AC5.7 OF 350 SHEETS

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

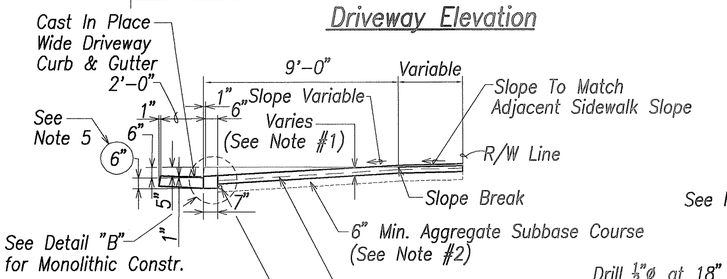
RMTC JOB NO.: 1–19369–0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	89	816

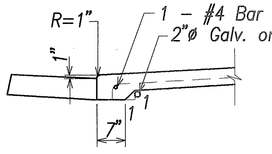




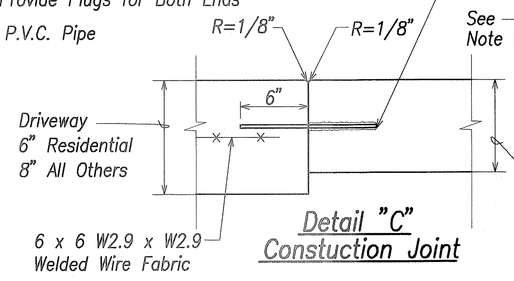
Driveway Elevation



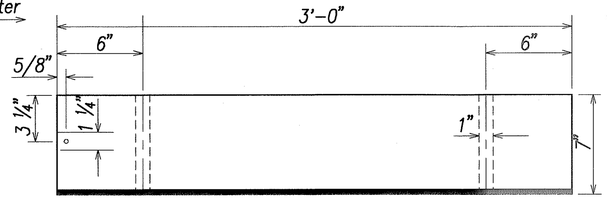
Section "A–A"



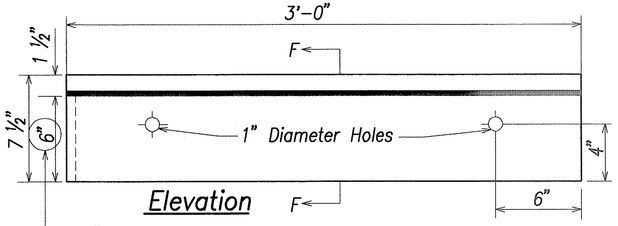
Detail "B"
Monolithic Construction Of Curb And Driveway Apron



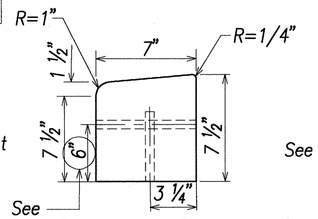
Detail "C"
Constuction Joint



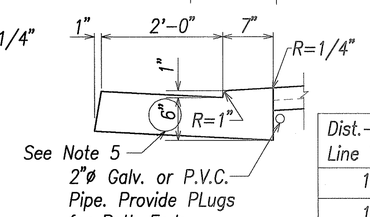
Plan



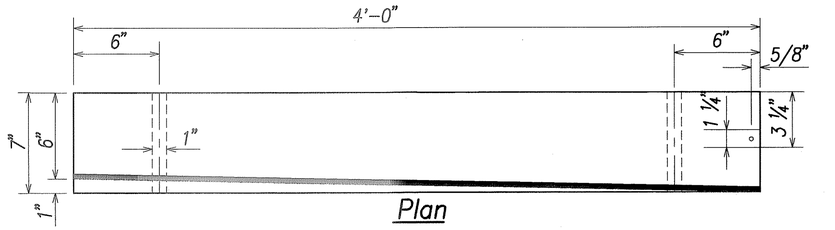
Elevation



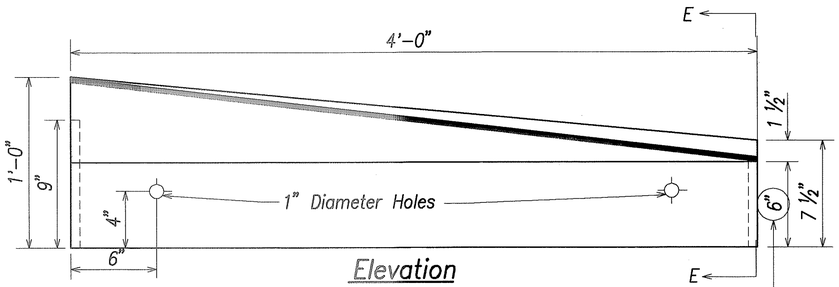
Section "F–F"
Pre–cast Conc. Driveway Curb



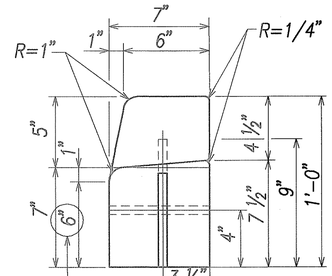
Detail "D"
Cast–in–place Integral Driveway Curb And Gutter



Plan



Elevation



Section "E–E"
Pre–cast Conc. Drop Curb Block

Dist.–Curb Line To R/W	Slope
12'	11/16" to 12"
10'	3/4" to 12"
8'	7/8" to 12"
7'	15/16" to 12"
6'	1 1/16" to 12"
3'	1 15/16" to 12"

Notes:

1. Minimum Concrete Approach Thickness
   A. Residential = 6 Inches
   B. Commercial = 8 Inches
2. Thickness Of Aggregate Subbase Course Beneath Concrete Pavement May Be Revised If Deemed Necessary By The Engineer.
3. Pcc Gutters Shall Be Longitudinally Broom Finished.
4. The Top Of All Types Of Concrete Curbs, Including Driveway Curbs Shall Be Longitudinally Broom Finished.
5. For A.C. Pavement Areas, Use Same Thicknes as AC + ACB But Not Less Than 10".

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE — EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REINFORCED CONCRETE DROP DRIVEWAY DETAILS

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: Not To Scale — Date: Mar. 31, 2003

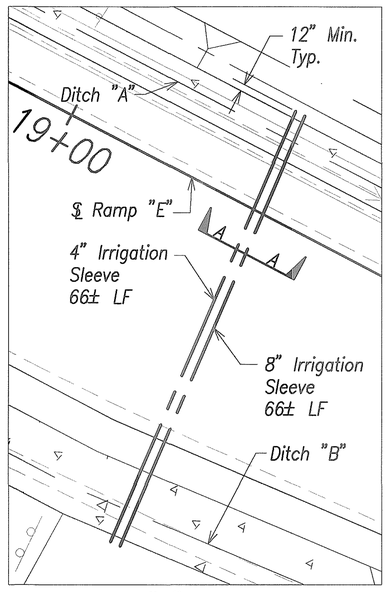
SHEET No. AC5.8 OF 350 SHEETS

Typical Details Of Reinf. Conc. Drop Driveway
Scale: Not To Scale

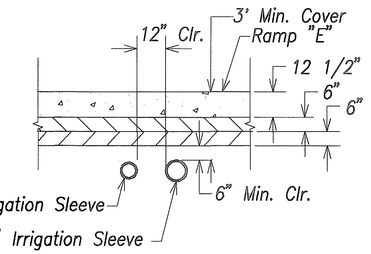
RMTC JOB NO.: 1–19369–OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 90	816

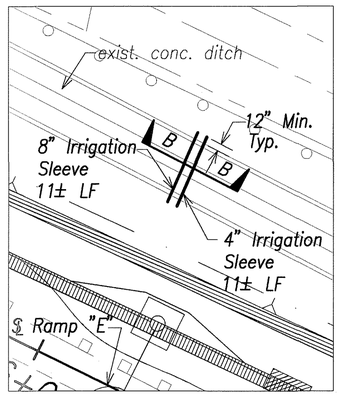
TRUE NORTH
SCALE: 1" = 10'



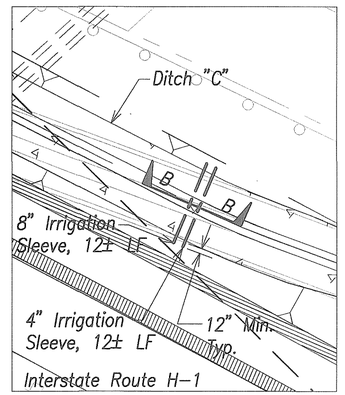
Ramp "E" ℄ Sta. 19+29 Layout
Scale: 1" = 10'



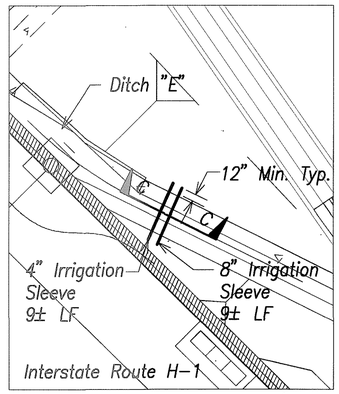
Section "A–A"
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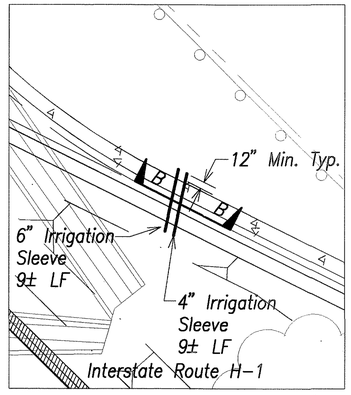
Ramp "E" ℄ Sta. 26+09 Layout
Scale: 1" = 10'



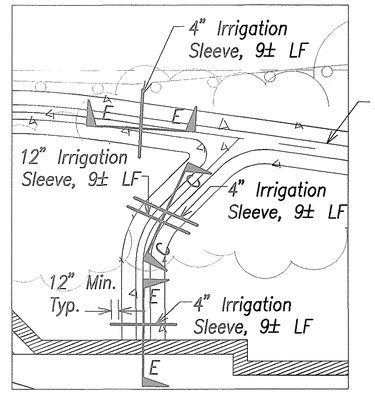
H–1 ℄ Sta. 89+58 Layout
Scale: 1" = 10'



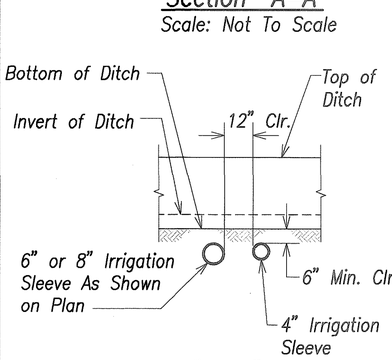
H–1 ℄ Sta. 103+17, o/s 104± Lt. Layout
Scale: 1" = 10'



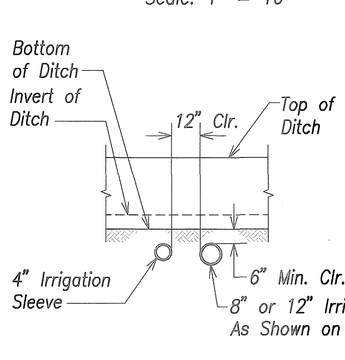
H–1 ℄ Sta. 103+83, o/s 126± Lt. Layout
Scale: 1" = 10'



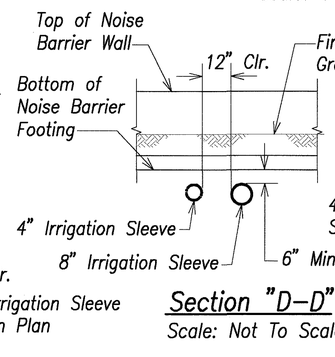
H–1 ℄ Sta. 106+25, o/s 109'± Lt. & 138'± Lt. & H–1 ℄ Sta. 106+28, o/s 125'± Lt. Layouts ⚠3
Scale: 1" = 10'



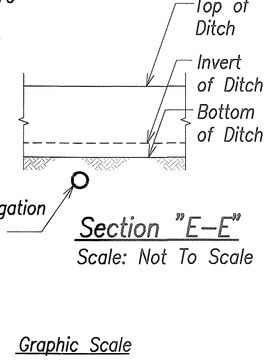
Section "B–B"
Scale: Not To Scale



Section "C–C"
Scale: Not To Scale



Section "D–D"
Scale: Not To Scale



Section "E–E"
Scale: Not To Scale

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

Note:

For measurement and payment of Irrigation Sleeves, refer to Section 616 – Sprinkler System of the Special Provisions.

DATE	REVISION
10/16/03	⚠5 Deleted Irrigation Sleeve at Sta. 102+55
6/20/03	⚠3 Revised Offsets at Sta.'s 106+25 & 106+28.

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No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION SLEEVE
DETAIL–1

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC5.9 OF 350 SHEETS

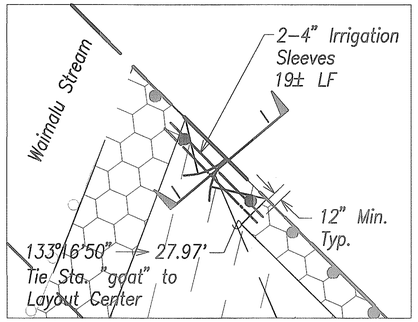
ORIGINAL PLAN
SURVEY PLOTTED BY
DRAWN BY
NOTE BOOK
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE
No.

RMTC JOB NO.: 1–19369–0E

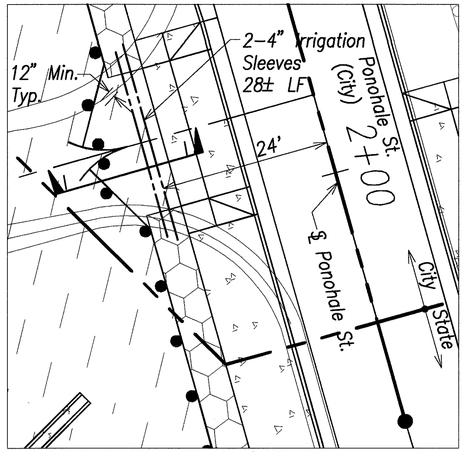
ADD. 90

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 91	816

TRUE NORTH
SCALE: 1" = 10'



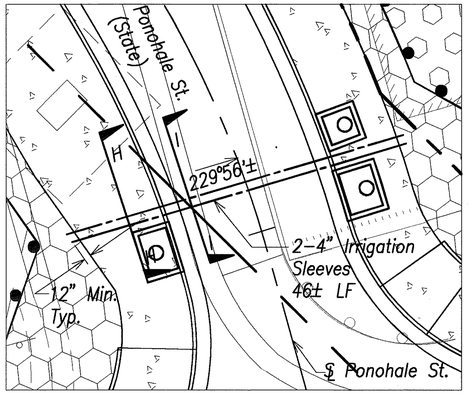
H–1 ℄ Sta. 113+55, o/s 113'± Lt. – Layout
Scale: 1" = 10'



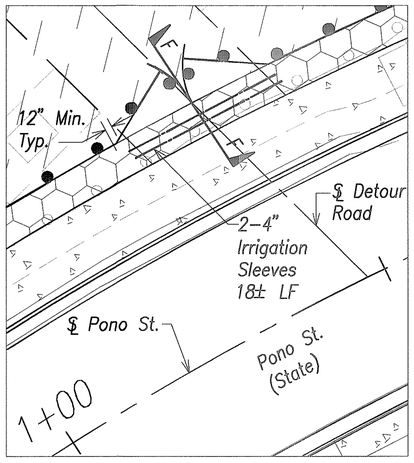
Ponohale St. ℄ Sta. 2+11 Layout
Scale: 1" = 10'



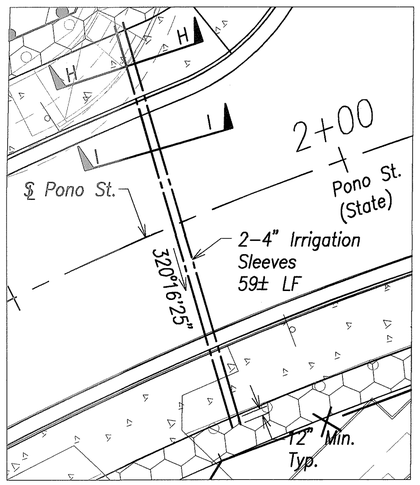
Ponohale St. ℄ Sta. 1+00 & 1+18 – Layout
Scale: 1" = 10'



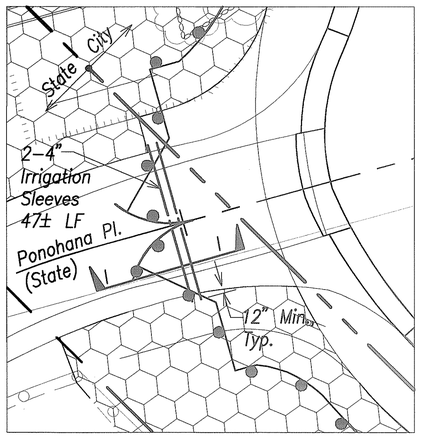
Ponohale St. ℄ Sta. 0+56.5 Layout
Scale: 1" = 10'



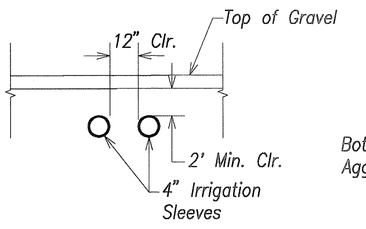
Pono St. ℄ Sta. 1+34, o/s 30'± Lt. – Layout
Scale: 1" = 10'



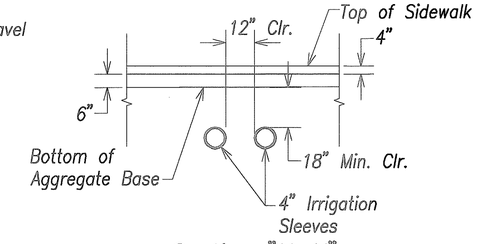
Pono St. ℄ Sta. 1+75 Layout
Scale: 1" = 10'



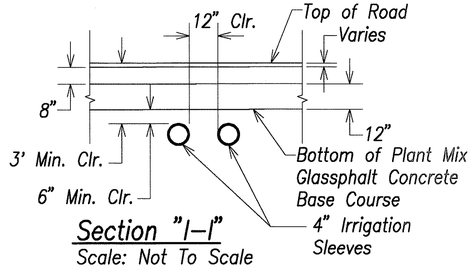
Ponohana Pl. ℄ Sta. 0+51 Layout
Scale: 1" = 10'



Section "F–F"
Scale: Not To Scale



Section "H–H"
Scale: Not To Scale



Section "I–I"
Scale: Not To Scale

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

Note:

For measurement and payment of Irrigation Sleeves, refer to Section 616 – Sprinkler System of the Special Provisions.

GREG H. HIYAKUMOTO
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HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 4/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

DATE	REVISION
6/20/03	3 Deleted Section "G–G".

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IRRIGATION SLEEVE
DETAIL–2

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

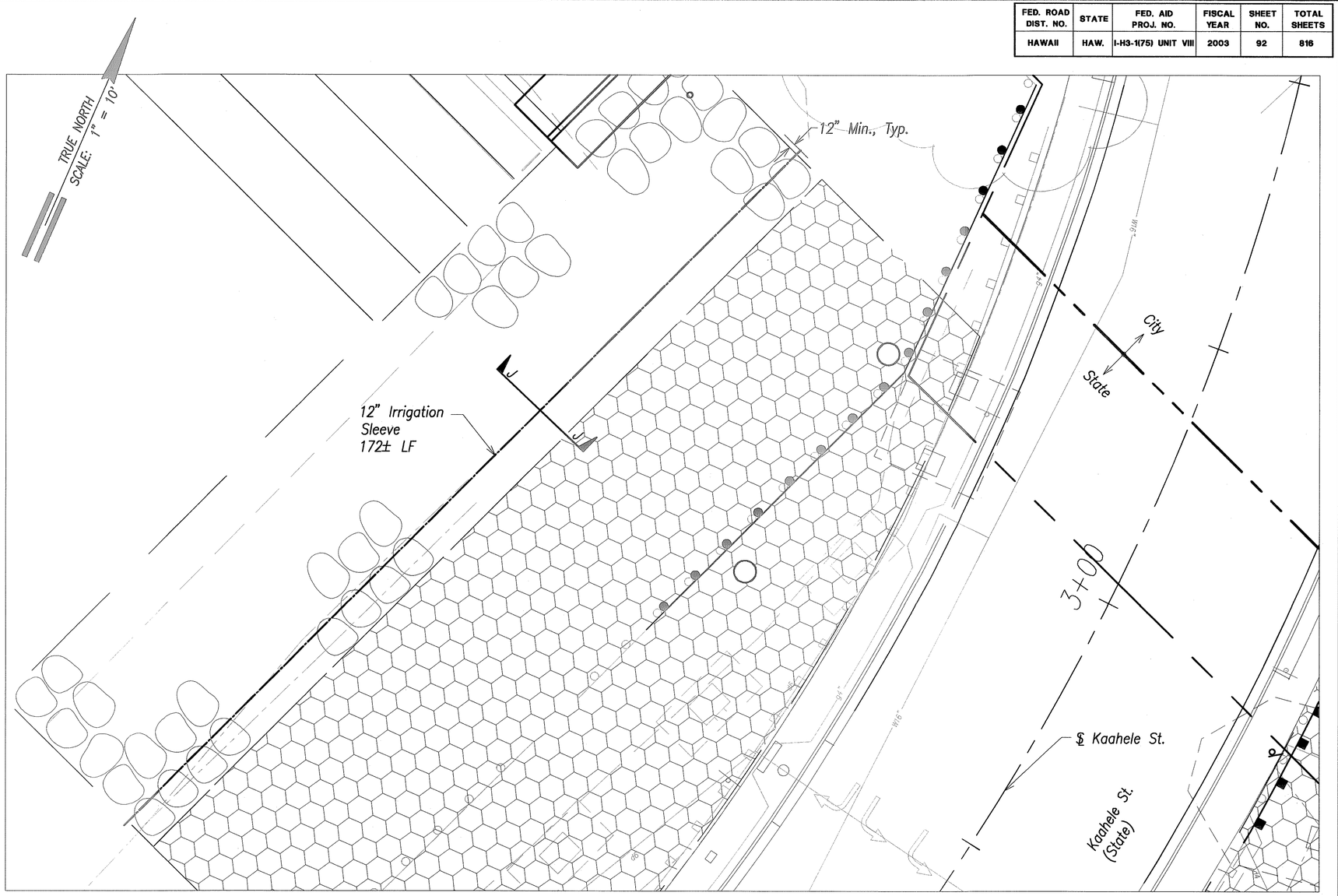
Scale: As Shown — Date: Mar. 31, 2003

SHEET No. AC5.10 OF 350 SHEETS

RMTC JOB NO.: 1–19369–0E

ADD. 91

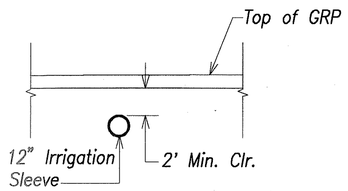
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	92	816



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

Note:

For measurement and payment of Irrigation Sleeves, refer to Section 616 – Sprinkler System of the Special Provisions.



Section "J–J"
Scale: Not To Scale

Kaahele St. ℄ Sta. 3+44, o/s 111.5'± Lt.
Layout
Scale: 1"=10'

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

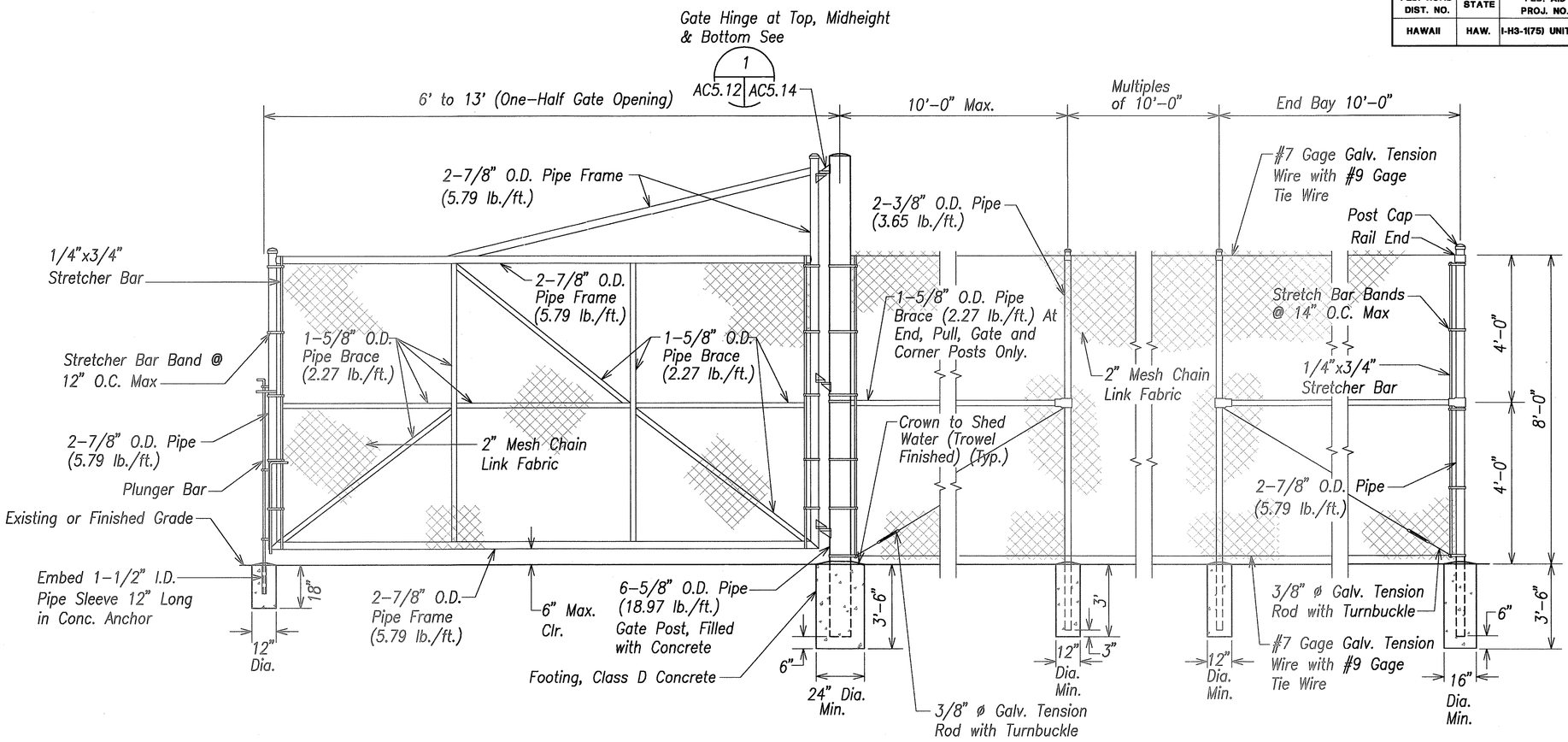
IRRIGATION SLEEVE
DETAIL–3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC5.11 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	93	816



Gate Post | First Line Post | First Line Post | End Corner or Pull Post

8'-0" High Chain Link Fence With Double Swing Gate

Scale: Not To Scale

Fence Notes:

1. All pipe and post sizes are outside diameter (O.D.).
2. Pipes, fittings, and posts shall be hot-dip galvanized.
3. Fabric shall be continuous and fastened to end posts by stretcher bars and tension bands spaced approximately 12" apart.
4. Wire fastening shall be No. 13 gauge galvanized tie wire.
5. Line posts wire fastenings shall be spaced 14" apart.
6. Horizontal rails wire fastennings shall be spaced 24" apart.
7. No splicing shall be allowed on all straight-run pipes.
8. Top selvages shall be twisted and barbed finish and bottom shall be knuckled.

Gate Notes:

1. Gate frame shall be welded pipe construction.
2. For all welded connections, corners shall be mitered and all pipe braces properly coped.
3. All welded connections shall be painted with two coats of Z.R.C. cold galvanizing compound.
4. Gate hinges shall be tack welded to post.
5. Pipes, fittings, and posts shall be hot-dip galvanized.
6. Top and bottom selvages shall be knuckled finish.

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

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FENCE DETAILS - 1

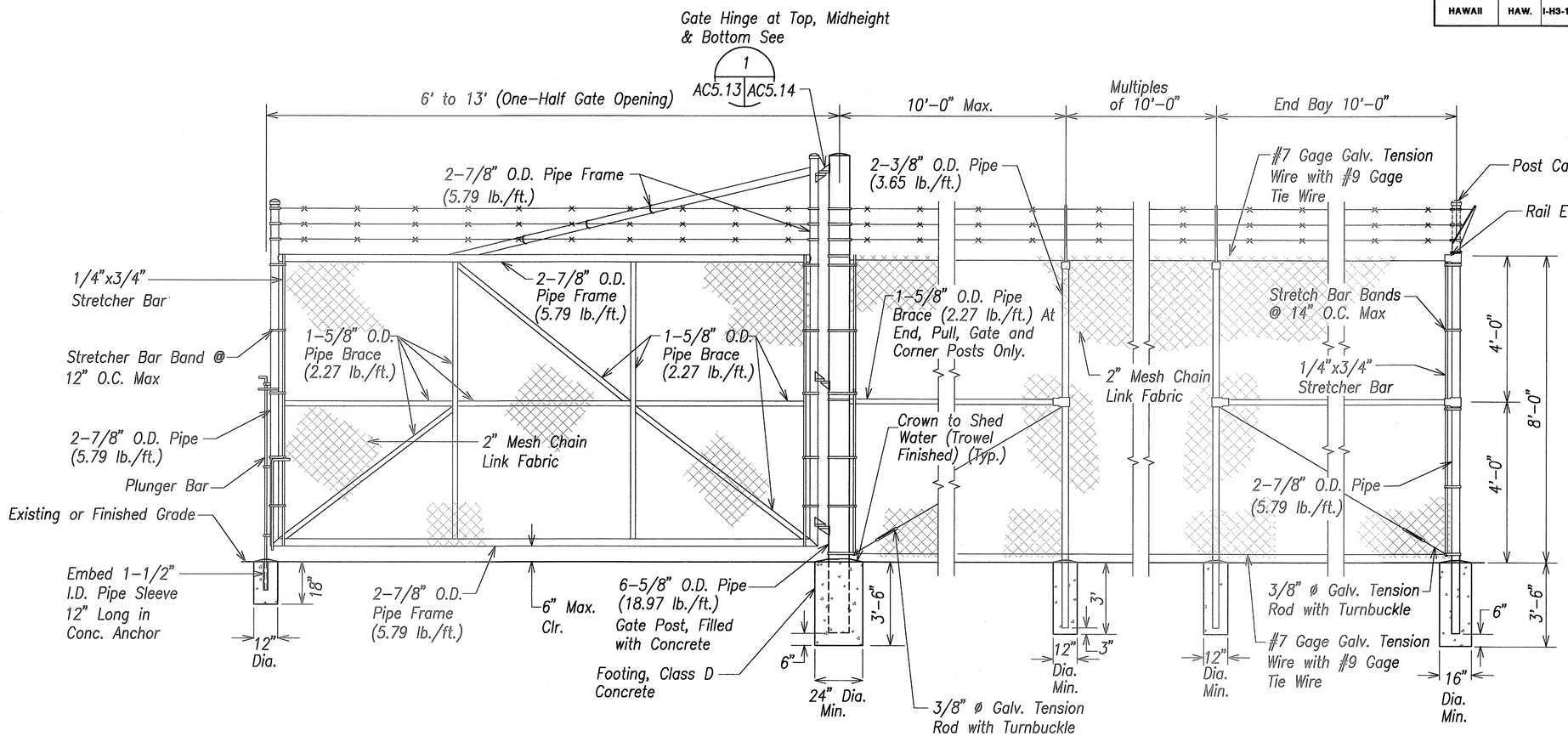
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale — Date: Mar. 31, 2003

SHEET No. AC5.12 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	94	816



Gate Post | First Line Post | First Line Post | End Corner or Pull Post

8'-0" High Chain Link Fence with Double Swing Gate and Barbed Wire

Not to Scale

Fence Notes:

1. All pipe and post sizes are outside diameter (O.D.).
2. Pipes, fittings, and posts shall be hot-dip galvanized.
3. Fabric shall be continuous and fastened to end posts by stretcher bars and tension bands spaced approximately 12" apart.
4. Wire fastening shall be No. 13 gauge galvanized tie wire.
5. Line posts wire fastenings shall be spaced 14" apart.
6. Horizontal rails wire fastennings shall be spaced 24" apart.
7. No splicing shall be allowed on all straight-run pipes.
8. Top and bottom selvages shall be twisted and barbed finish.
9. At fence end only, exclude barbed wire extension arm and extend post. Fasten barbed wire to post.
10. Point extension outward or away from property line at an angle of 45° from vertical.

Gate Notes:

1. Gate frame shall be welded pipe construction.
2. For all welded connections, corners shall be mitered and all pipe braces properly coped.
3. All welded connections shall be painted with two coats of Z.R.C. cold galvanizing compound.
4. Gate hinges shall be tack welded to post.
5. Pipes, fittings, and posts shall be hot-dip galvanized.
6. Top and bottom selvages shall be knuckled finish.

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

GREG H. HIYAKUMOTO
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No. 6662-C
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FENCE DETAILS - 2

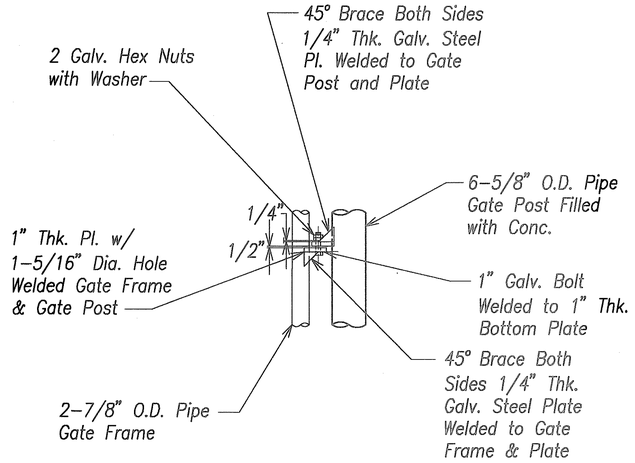
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Date: Mar. 31, 2003

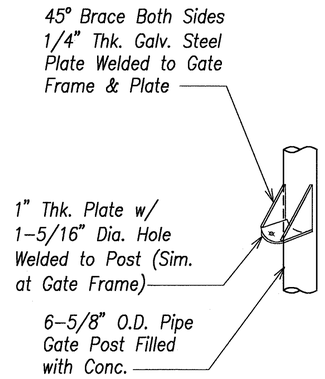
SHEET No. AC5.13 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

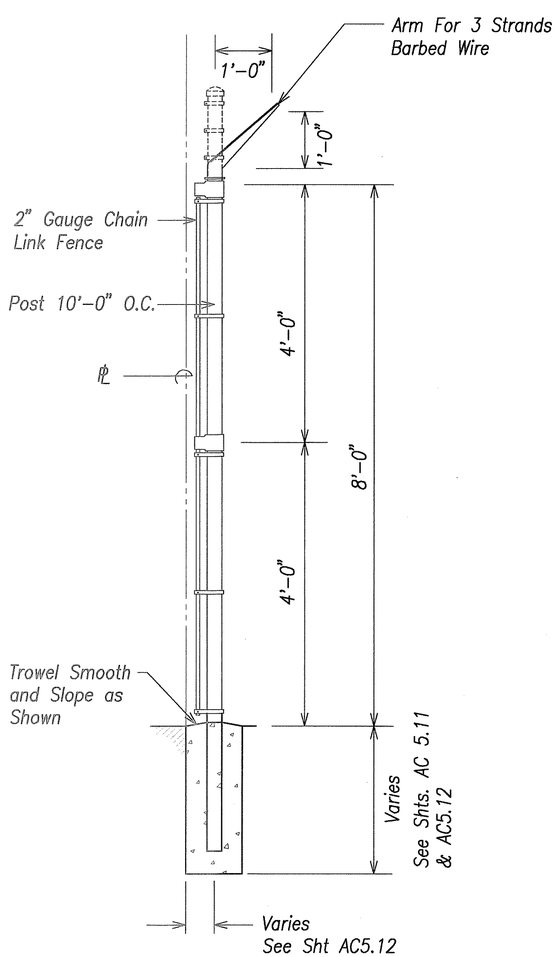
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	95	816

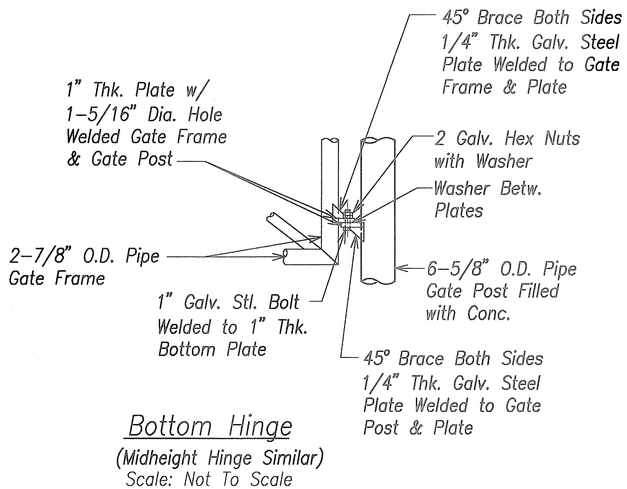


Top Hinge
Scale: Not To Scale

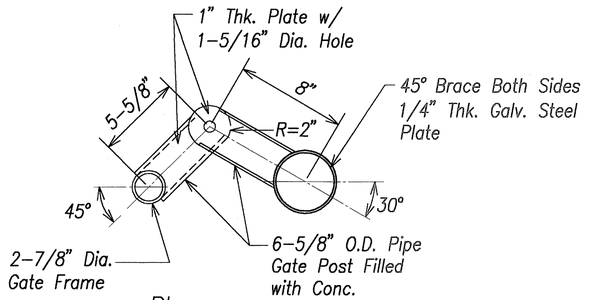


Isometric
Scale: Not To Scale





Bottom Hinge
(Midheight Hinge Similar)
Scale: Not To Scale



Plan
Scale: Not To Scale

8'-0" High Chain Link Gate Hinge Details
Scale: Not To Scale

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

GREG H. HIYAKUMOTO
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HIGHWAYS DIVISION

FENCE DETAILS - 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale — Date: Mar. 31, 2003

SHEET No. AC5.14 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

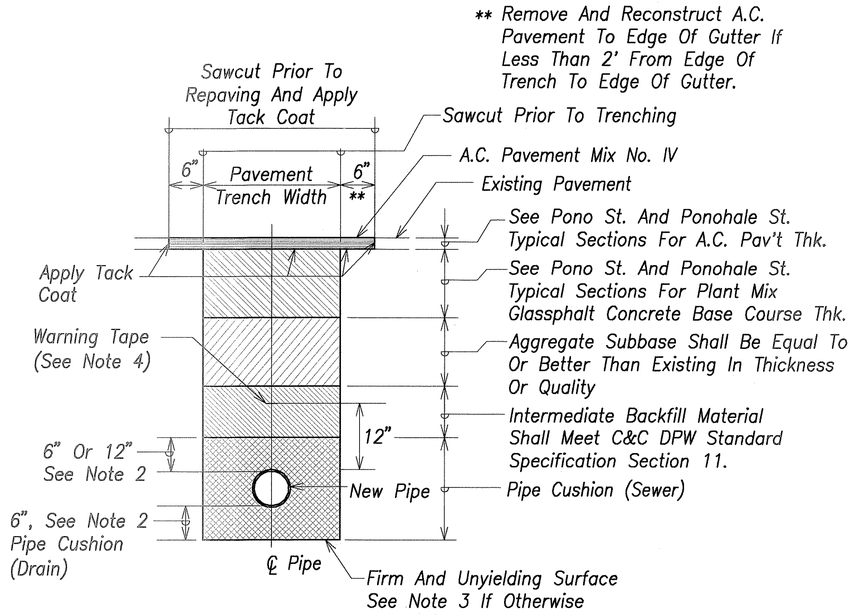
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	96	816

Sewer and Drain Line Trenching Notes:

1. Pavement structure shall be equal or better than existing in thickness and quality.
2. The pipe cushion shall extend 6 or 12 inches above the pipe or to two (2) feet above the water table, whichever results in a greater thickness.
3. Soft or loose soils encountered at the bottom of trenches shall be over-excavated to expose firm natural material or to a maximum of 24 inches and backfilled with No. 3b fine gravel that is encapsulated by a non-woven geotextile fabric. This material shall be considered as additional to the recommended six (6) inches below the pipe.
4. Warning Tape shall be 8 Mil Thick Red Colored Plastic Wiring Tape, 3" Wide with Continuous Metallic Backing and Corrosion Resistant Foil Core Inscribed with: "CAUTION-SEWER/DRAIN LINE BURIED BELOW" In Black Lettering, Repeated at 36" Intervals.
5. For Drain Lines less than 18" in diamter, trench width shall be 24".

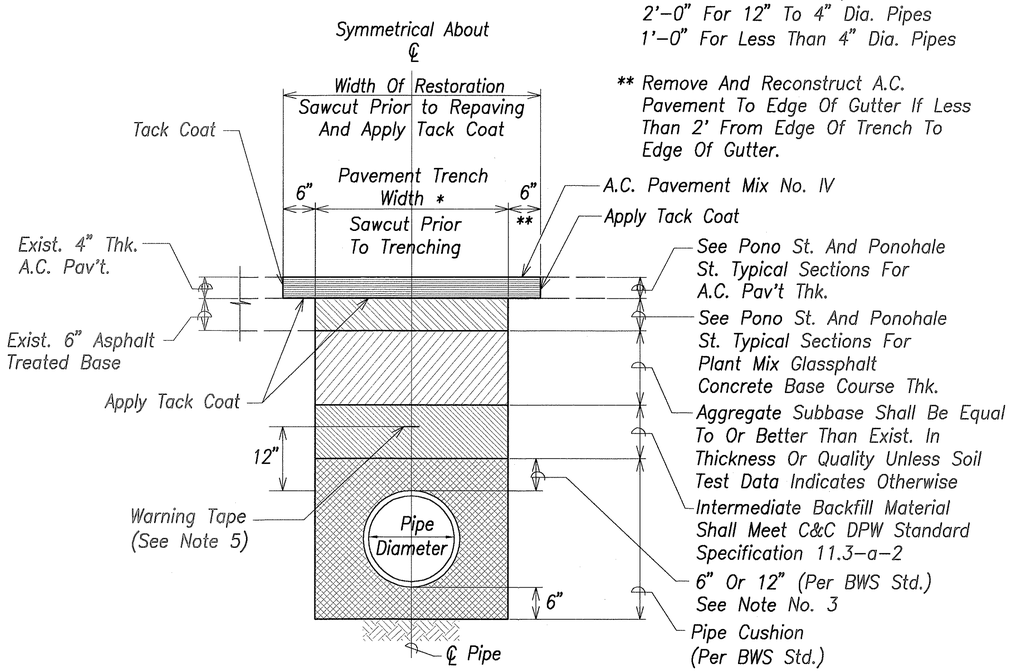
Water Line Trenching Notes:

1. Subbase under curb & gutter shall match exist. thickness and quality.
2. Pavement structure shall be equal or better than exist. in thickness and quality.
3. The pipe cushion shall extend 6 or 12 inches (per BWS Standard) above the pipe or to two (2) feet above the water table, whichever results in a greater thickness.
4. Soft or loose soils encountered at the bottom of trenches shall be over-excavated to expose firm natural material or to a maximum of 24 inches and backfilled with No. 3b Fine Gravel that is encapsulated by a non-woven geotextile fabric. This material shall be considered as additional to the recommended six (6) inches below the pipe.
5. Warning Tape shall be 4 mil thick blue colored plastic wiring tape, 6 inches wide with continuous metallic backing and corrosion resistant foil core inscribed with: "CAUTION-WATER LINE BURIED BELOW" in black lettering, repeated at 36" intervals.



Typical Trench Restoration Detail for Sewer And Drain Lines

Scale: Not To Scale

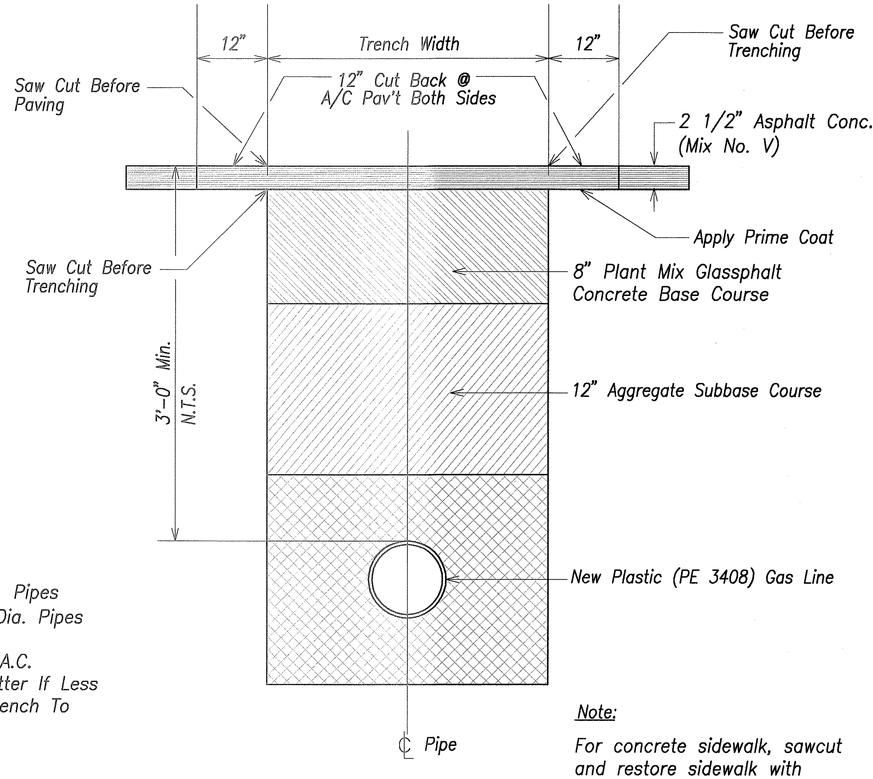


* 2'-6" For 16" Dia. Pipe
2'-0" For 12" To 4" Dia. Pipes
1'-0" For Less Than 4" Dia. Pipes

** Remove And Reconstruct A.C. Pavement To Edge Of Gutter If Less Than 2' From Edge Of Trench To Edge Of Gutter.

Trench Restoration Detail For Water Line

Scale: Not To Scale



Note:

For concrete sidewalk, sawcut and restore sidewalk with Class "B" concrete and, tunnel under curb and gutter.

Trench Restoration Detail For Gas Line Within State Right-Of-Way

Scale: Not To Scale

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRENCH RESTORATION DETAILS

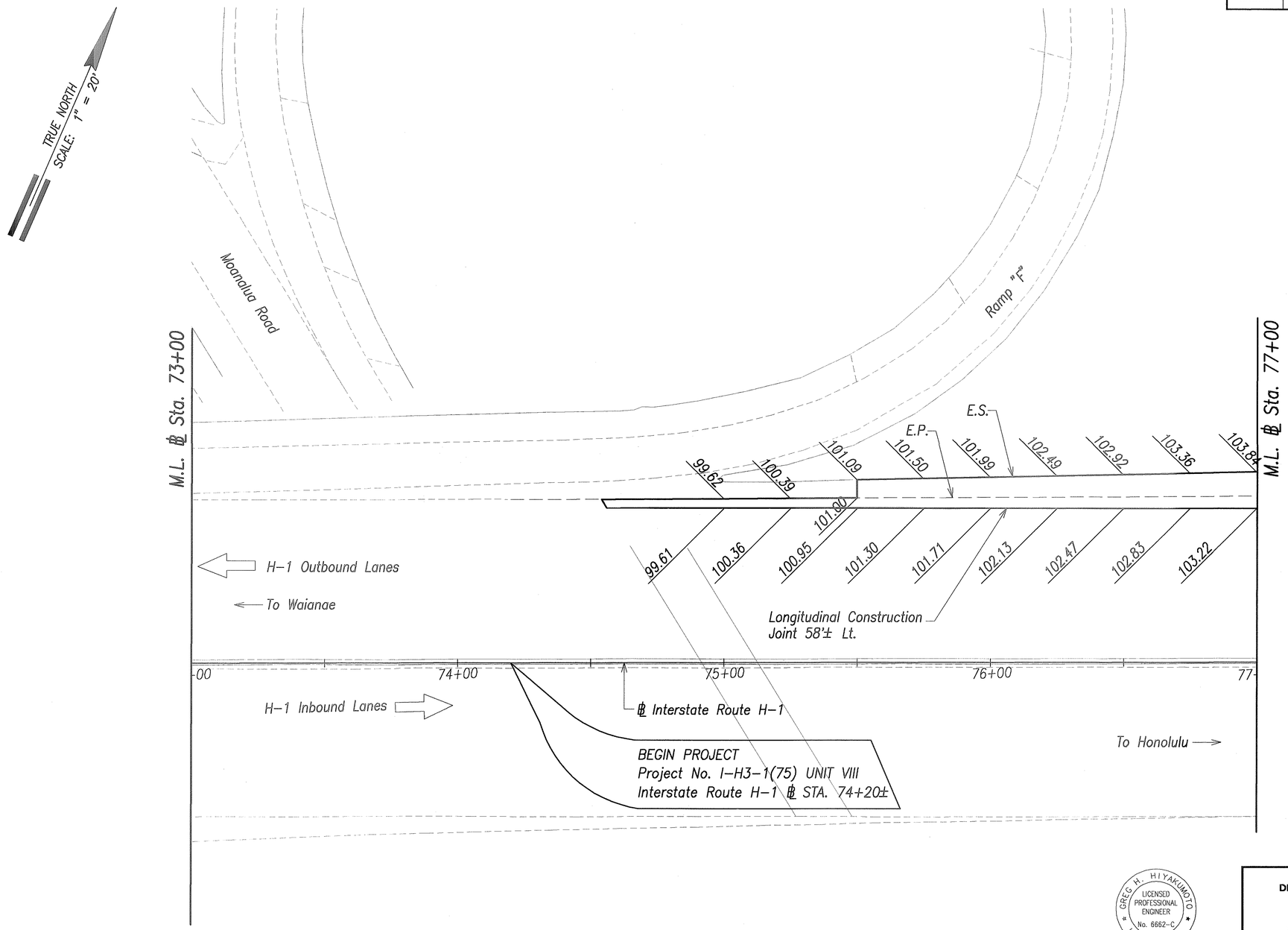
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale — Date: Mar. 31, 2003

SHEET No. AC5.15 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	97	816



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

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT GRADING & JOINTING PLAN – 1

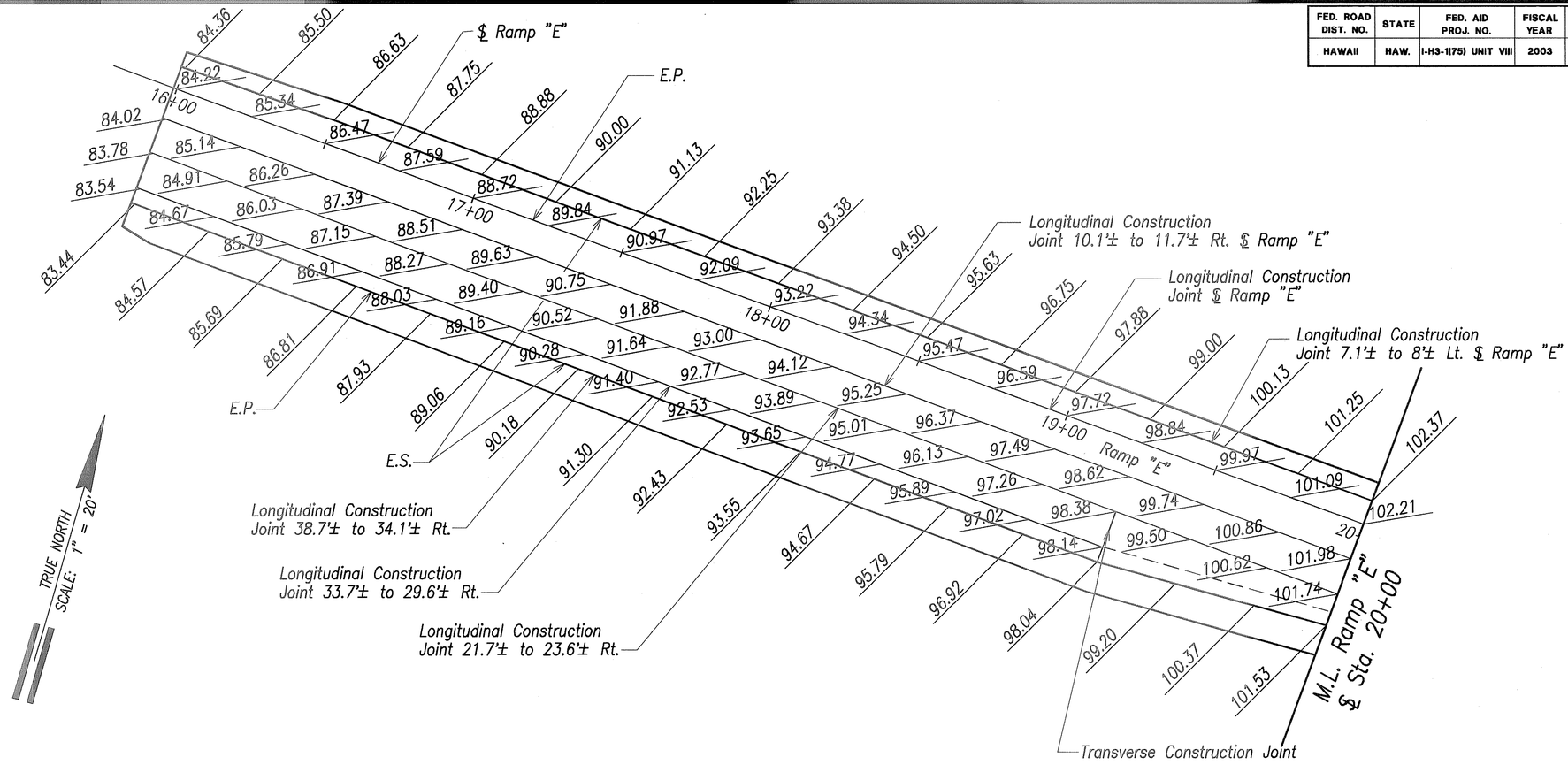
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC6.1 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	98	616



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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

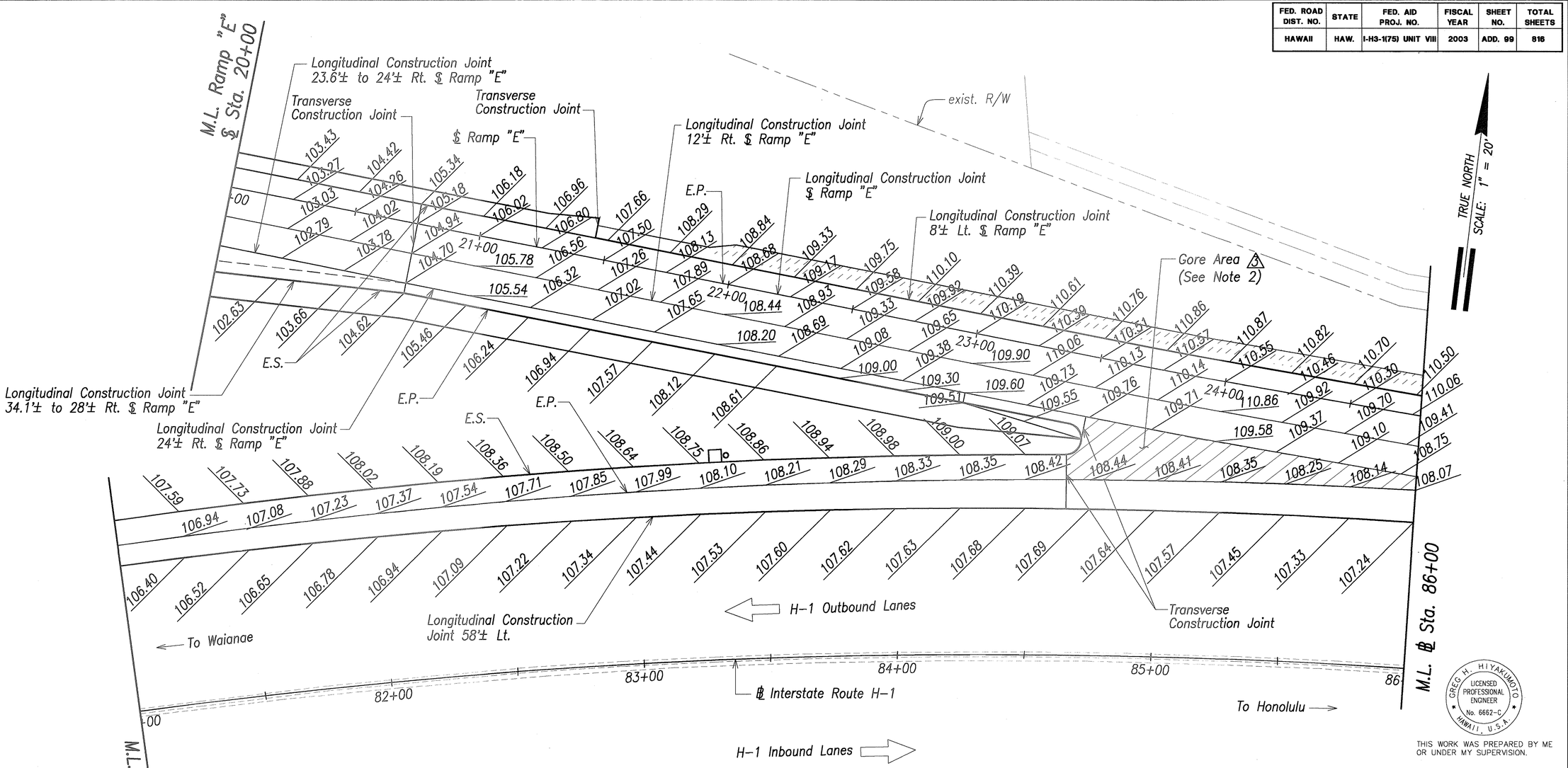
PAVEMENT GRADING & JOINTING PLAN - 2

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC6.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 99	816



3 *Notes:*

1. *Contractor shall submit proposed joint layout at the intersecton of H-1 Freeway and Ramp "E" to the Engineer for approval. Layout shall conform to guidelines shown on Shts. AC6.14 & AC6.15.*

2. *Contractor shall submit shop drawings to the Engineer for joint pattern at gore area. Joint pattern should match H-1 and Ramp "E" joints.*

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Notes & Added Gore Area Callout.

GREG H. HIYAKUMOTO
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HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT GRADING & JOINTING PLAN - 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

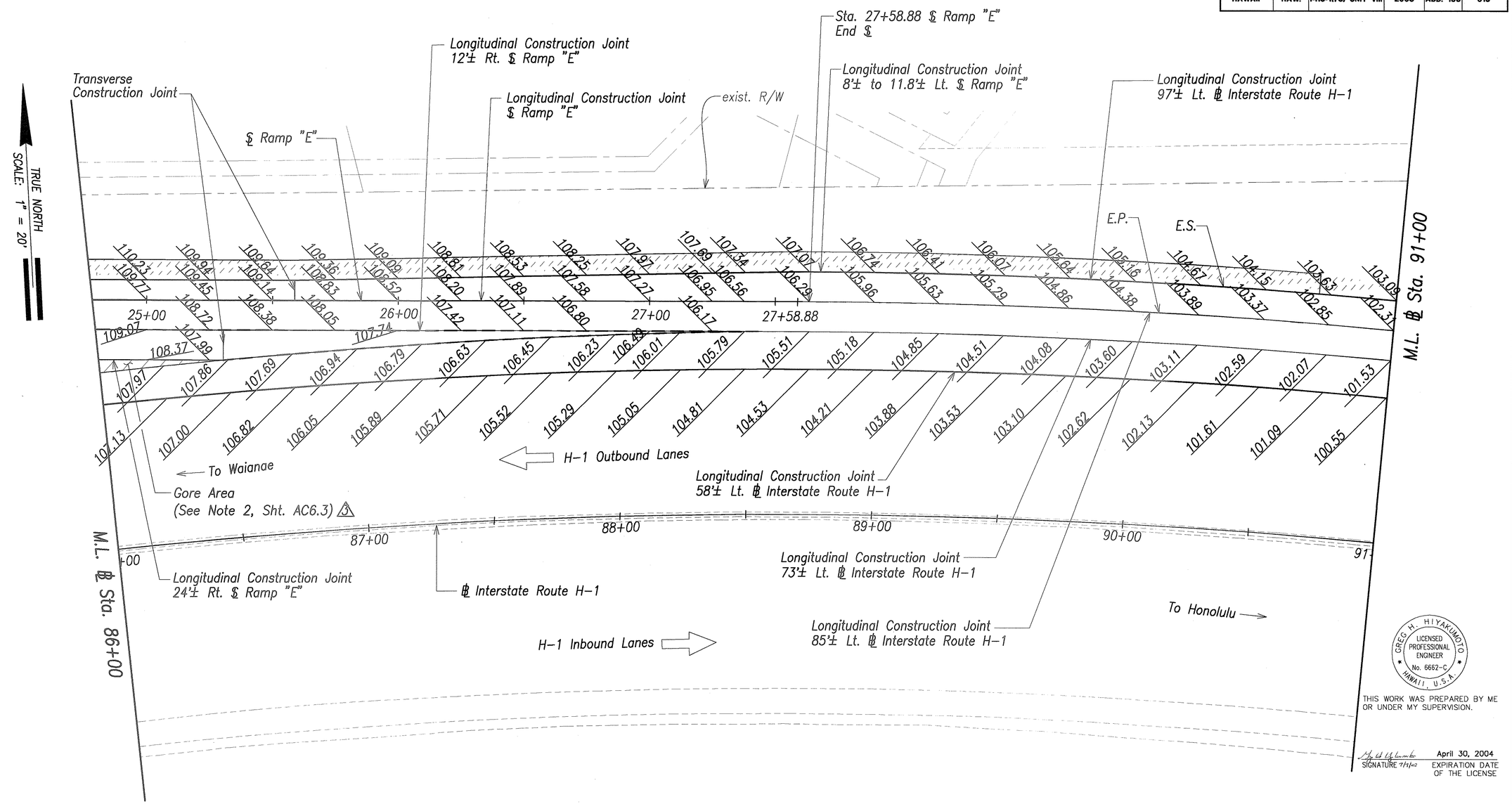
SHEET No. AC6.3 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 99

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 100	816



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

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Added Gore Area Callout.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT GRADING & JOINTING PLAN - 4

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

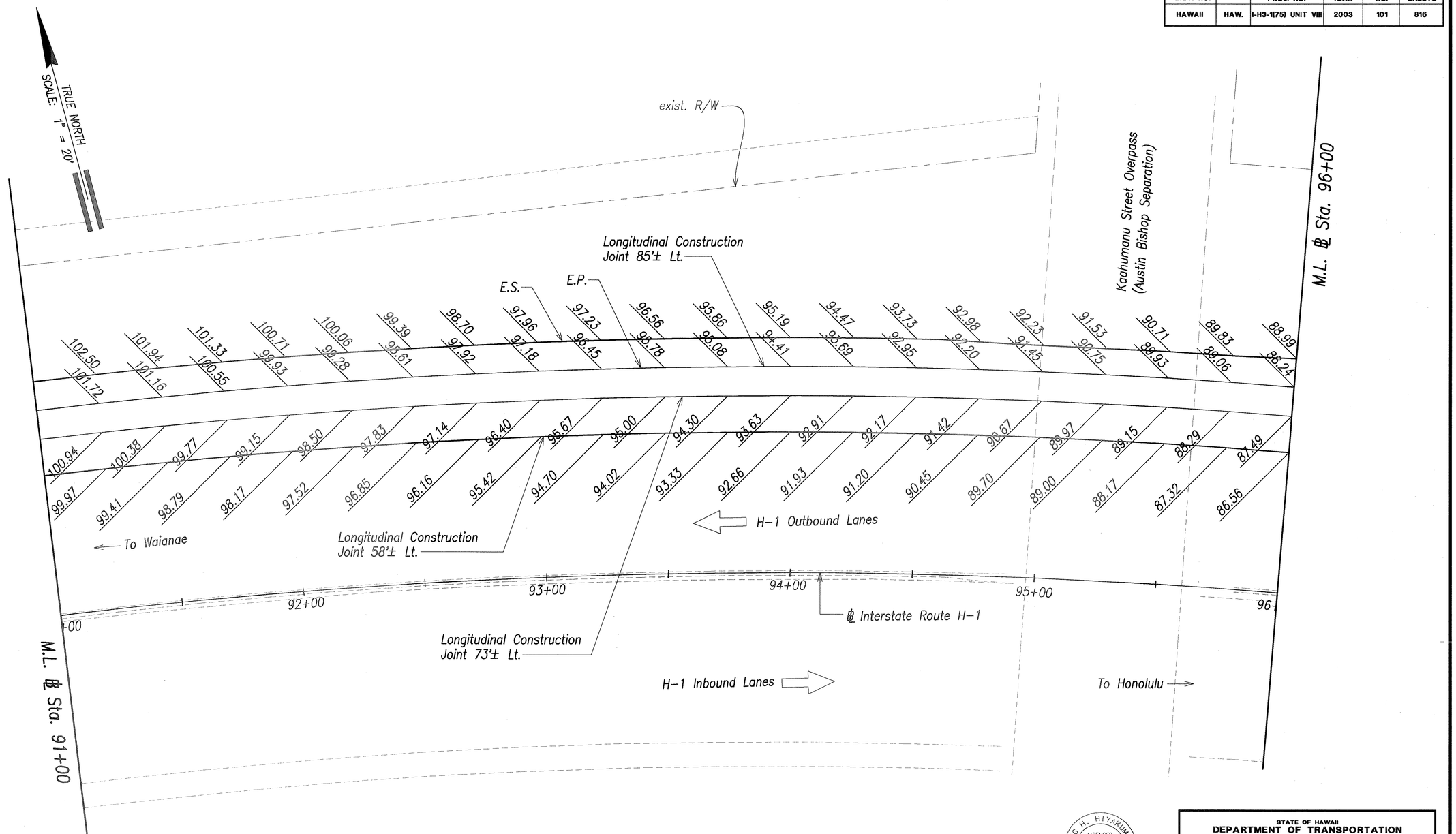
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC6.4 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 100

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	101	816



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

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT GRADING & JOINTING PLAN - 5

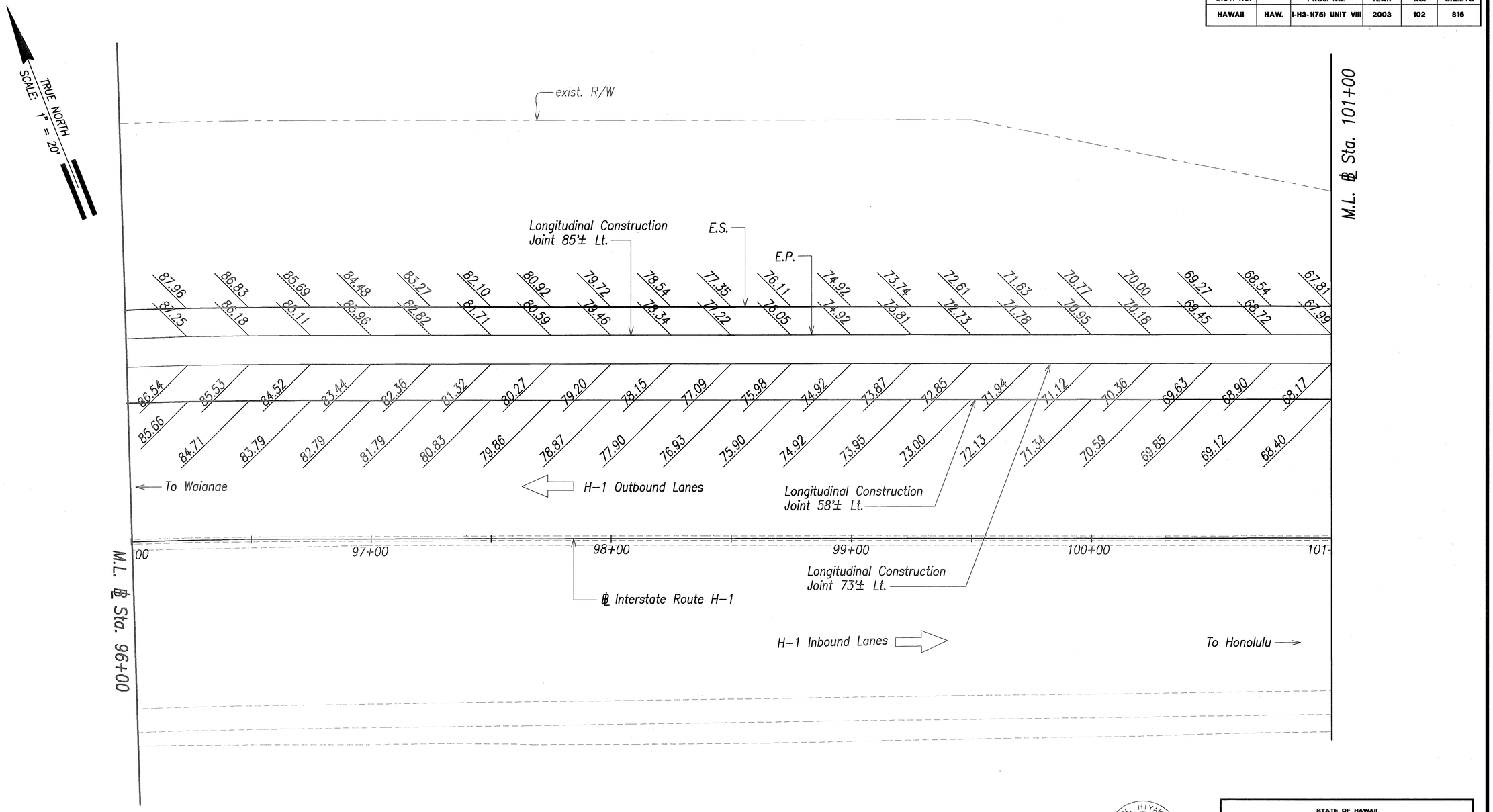
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC6.5 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	102	816



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

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT GRADING & JOINTING PLAN - 6

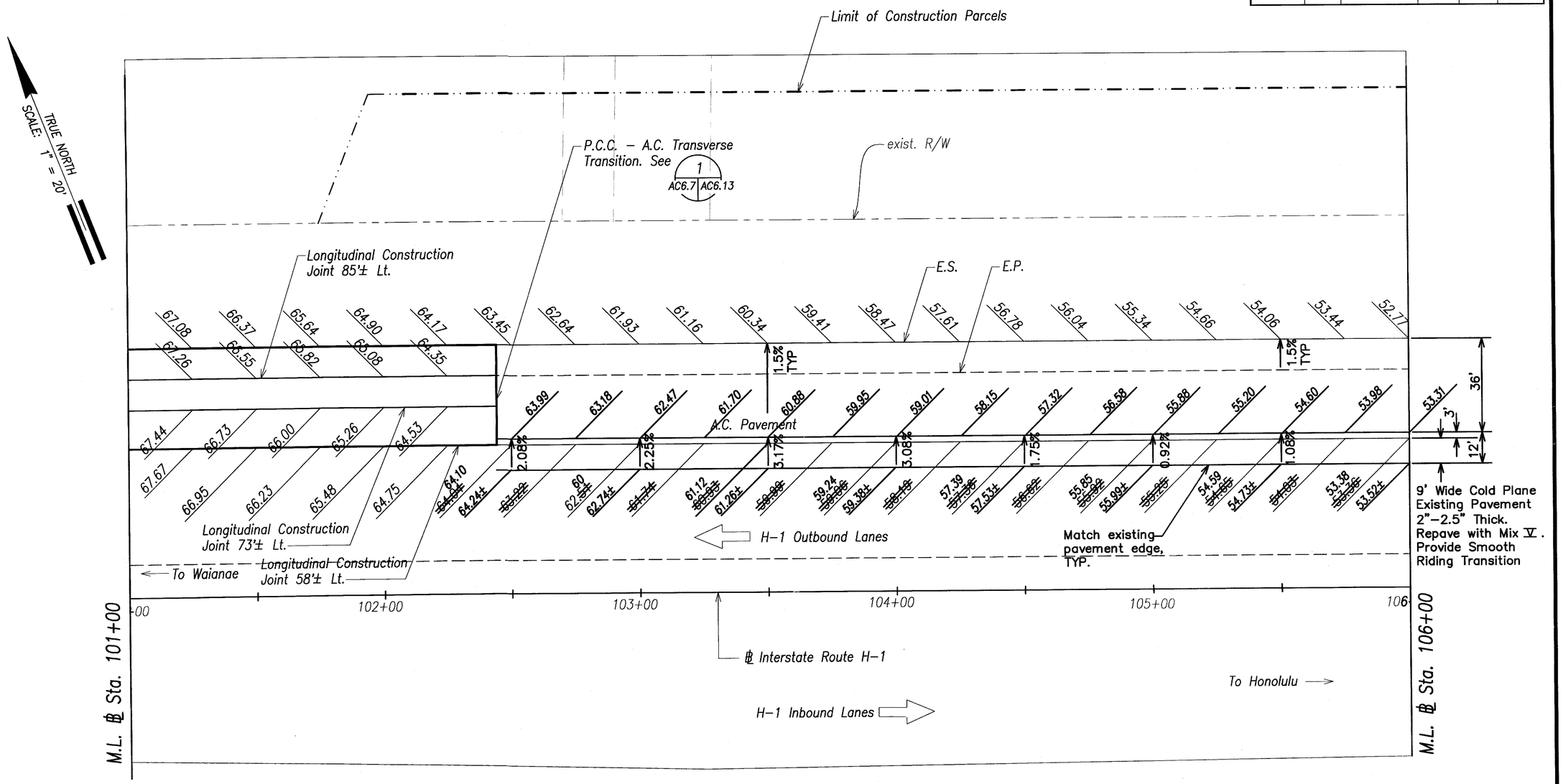
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC6.6 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E
K:\civil\3-02424\dwg\civil\dwg\Roadway Plan-R.dwg February 19, 2003 3:08pm SueF

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	103	816



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

LEGEND FOR AS–BUILT POSTINGS

~~AAAAA~~	Squiggly line for as–built deletion
~~100.00~~	Double line for as–built deletion
Roadway	Text for as–built posting

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662–C HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT GRADING & JOINTING PLAN – 7

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

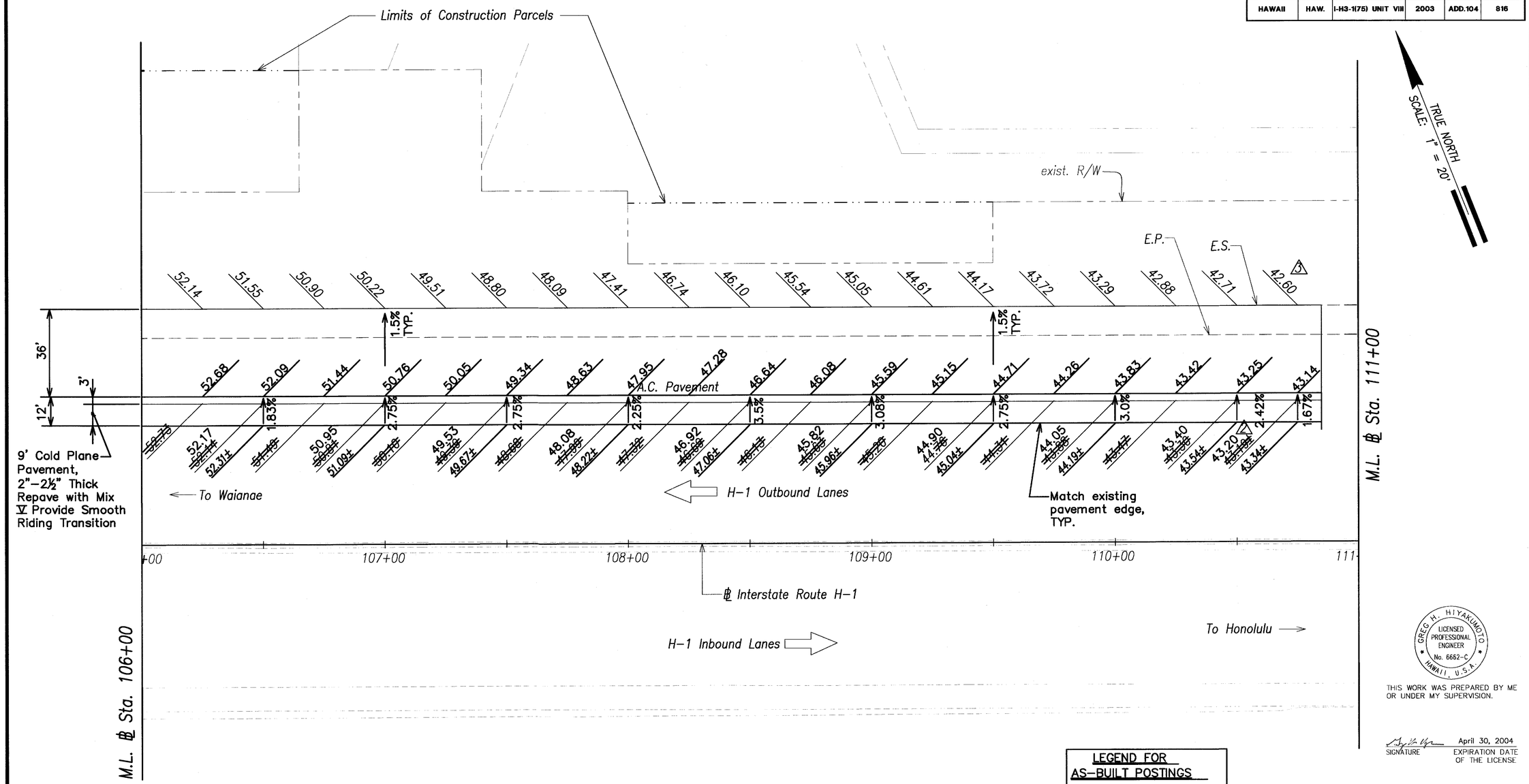
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC6.7 OF 350 SHEETS

RMTC JOB NO.: 1–19369–0E

"AS–BUILT" 103

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD.104	816



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LEGEND FOR AS–BUILT POSTINGS

~~WWWW~~	Squiggly line for as–built deletion
~~100.00~~	Double line for as–built deletion
Roadway	Text for as–built posting

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Elevations.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT GRADING & JOINTING PLAN – 8

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

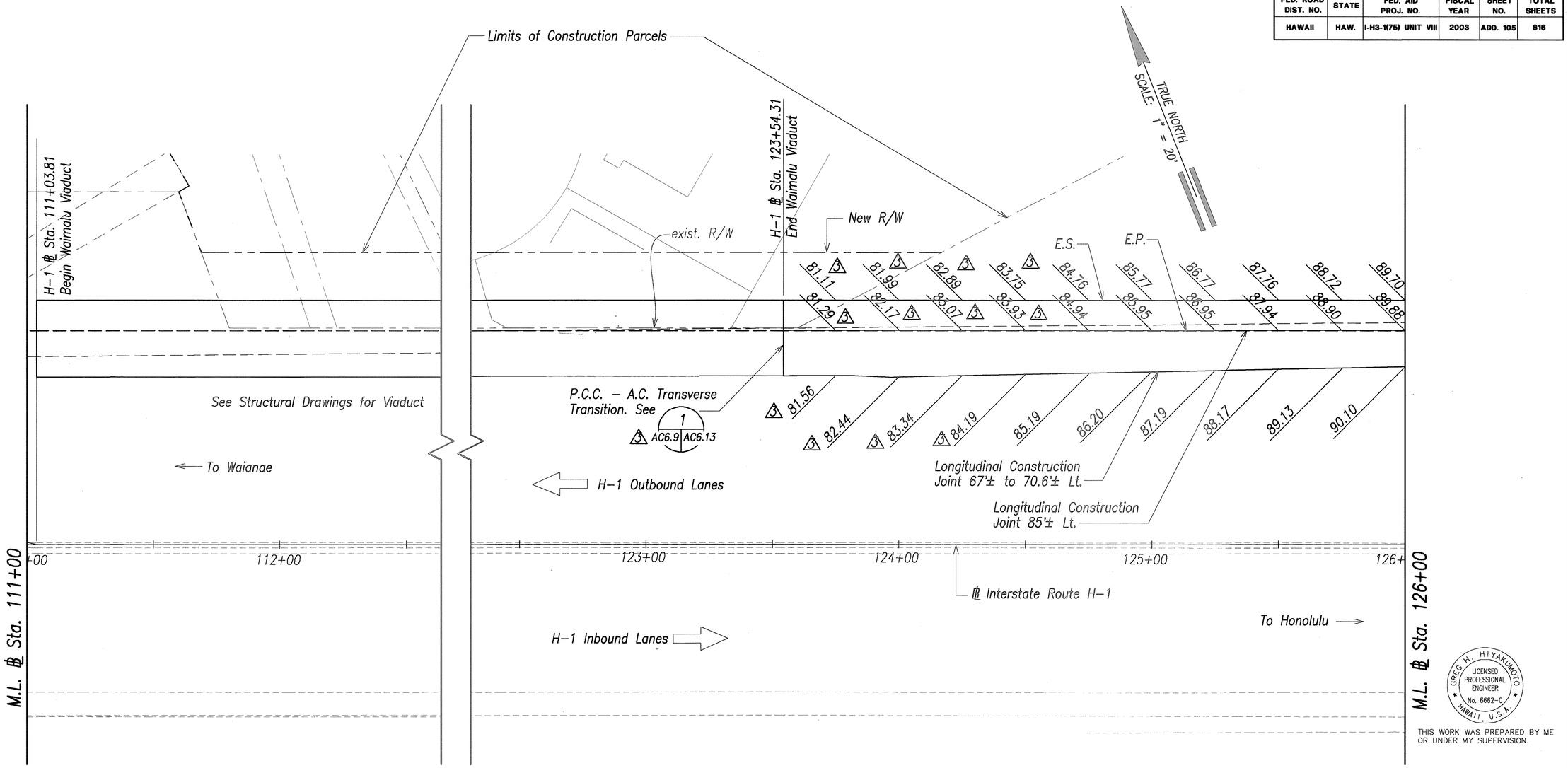
SHEET No. AC6.8 OF 350 SHEETS

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

RMTC JOB NO.: 1–19369–0E

"AS–BUILT" ADD. 104

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 105	816



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HAWAII, U.S.A.

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

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Elevations and P.C.C.–A.C. Transverse Transition Reference.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT GRADING & JOINTING PLAN – 9

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

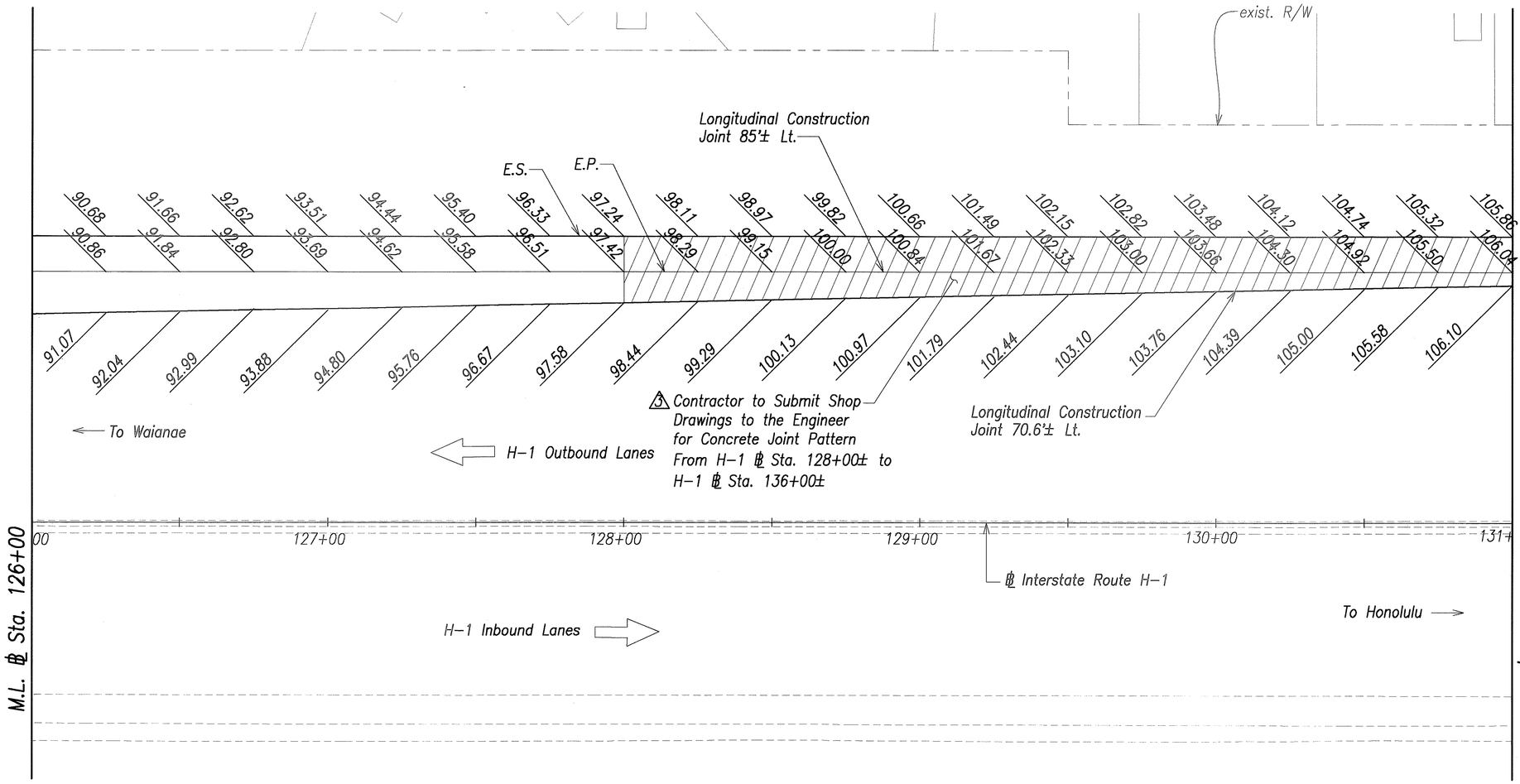
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC6.9 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 105

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 106	816



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No. 6662-C
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ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
6/20/03	3 Added Callout for Concrete Joint Pattern.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT GRADING & JOINTING PLAN – 10

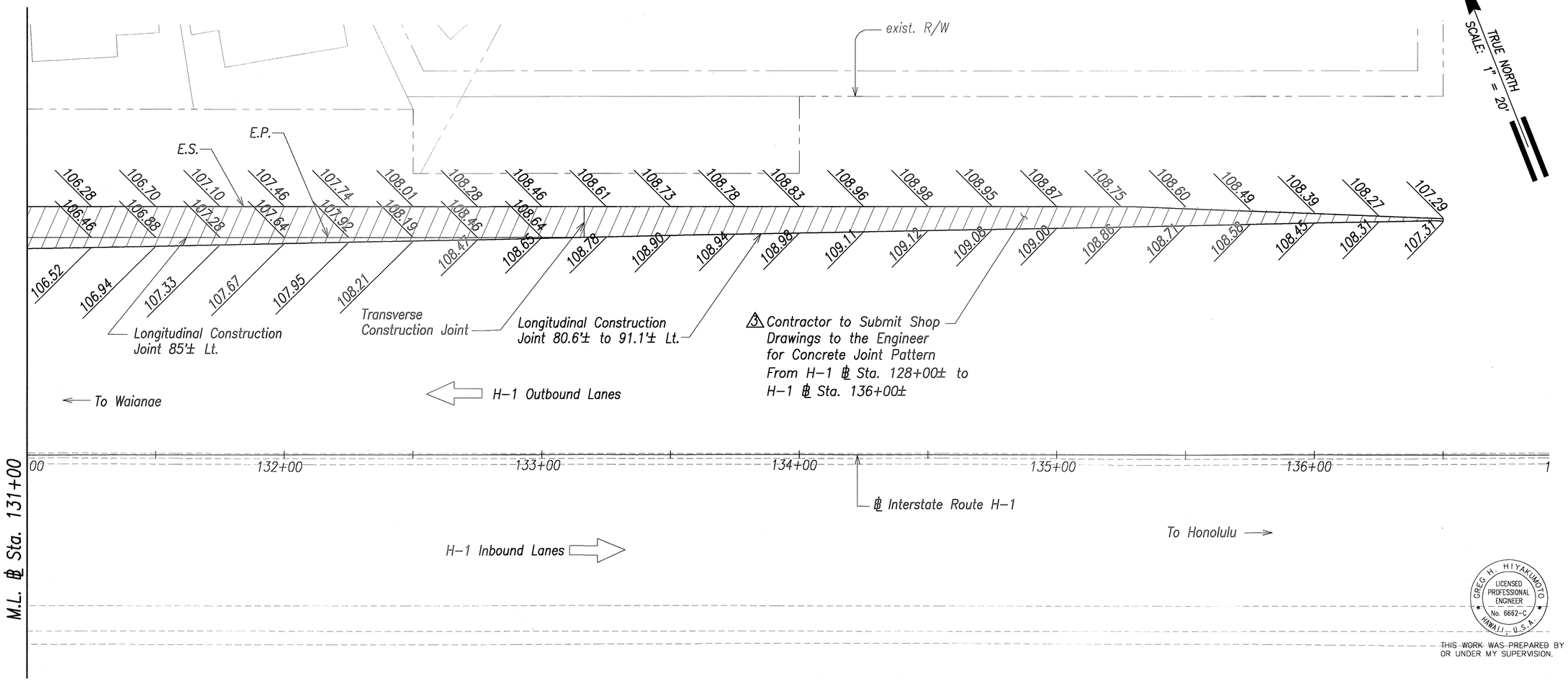
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC6.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 106

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 107	816



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No. 6662-C
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SIGNATURE 4/30/04 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Added Callout for Concrete Joint Pattern.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT GRADING & JOINTING PLAN – 11

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

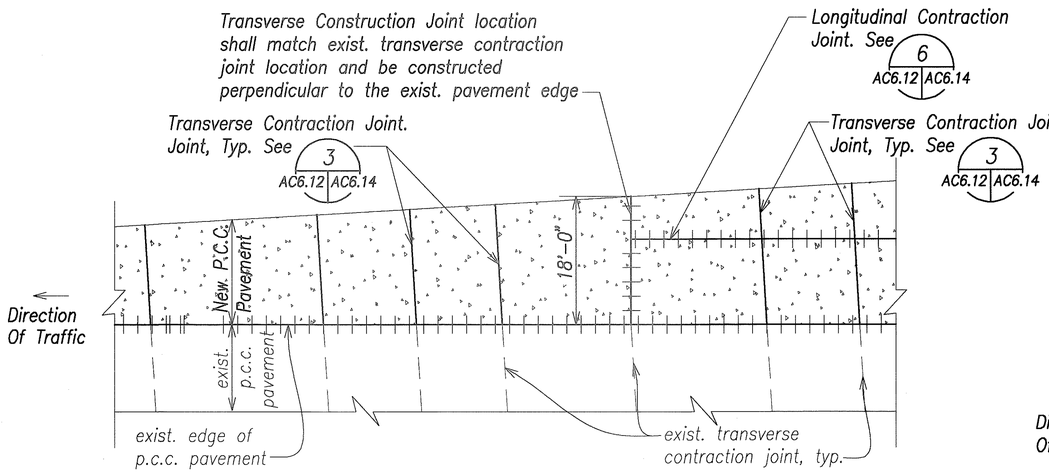
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SHEET No. AC6.11 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

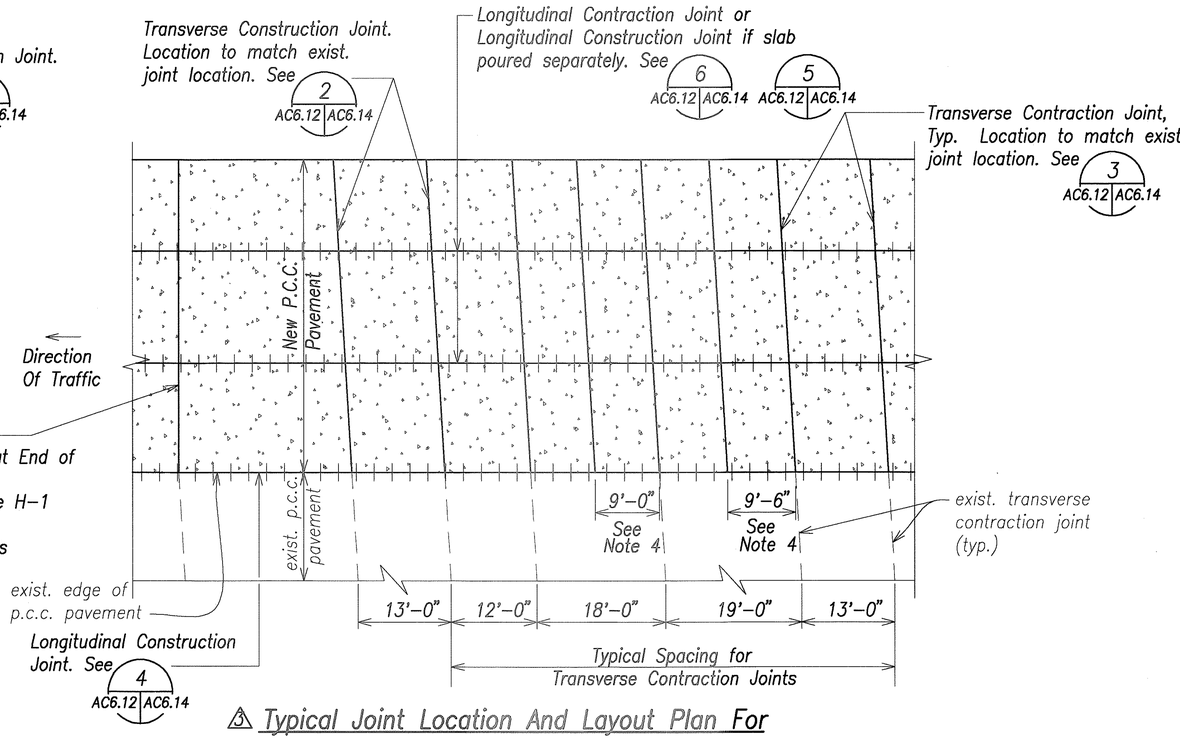
ADD. 107

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 108	816



Typical Joint Location And Layout Plan For Tapering P.C.C. Pavement Widening

Scale: 1" = 10'



⚠3 Typical Joint Location And Layout Plan For Constant P.C.C. Pavement Widening

Scale: 1" = 10'

Jointing Notes:

1. All new P.C.C. pavements shall be provided with permeable base course with longitudinal underdrains. Provide skewed joint pattern, without transverse contraction joint dowels or perpendicular joint pattern with transverse contraction joint dowels. Joint sealants are not required on pavements with permeable base.
2. The dimensions shown are for a 12-foot wide travel way lane width. For other lane widths, adjust the transverse joint spacing to obtain a length-to-width or width-to-length ratio not greater than 1.25 for the travel way slabs.
3. For skewed joints, skew the typical transverse joint with a 2-foot offset counter-clockwise from a perpendicular to the edge of the pavement for every 12 feet along the perpendicular.
4. Space transverse joint at successive intervals at 12', 15', 13', and 14' in the direction of travel for new pavements not abutting existing pavement. Repeat for the remaining joints, except when terminated with a doweled construction joint which should be perpendicular to the paving lane. For new pavements abutting existing pavements, match existing joint pattern, except for 18' and 19' lengths provide additional joint at midpoint of slab length, or if an existing crack is present, provide joint matching location of existing crack.
5. For travel way lanes, reinforce odd-shaped slabs and slabs with mismatched joints. Odd-shaped slabs are slabs with longer side divided by the shorter side ratio greater than 1.25. Odd-shaped slabs also include other triangular and irregular-shaped slabs.
6. For the shoulders, reinforcing is not required for odd-shaped slabs that exceed the 1.25 ratio, however reinforce all triangular-shaped slabs.
7. Locate transverse construction joints at the nearest planned transverse contraction joint as shown on the jointing plans.
8. The drilled holes for longitudinal construction joints shall be made a minimum of 1'-0" and a maximum of 1'-6" from existing transverse contraction joints.
9. ⚠3 Provide shop drawings for joint layout where obstructions such as manholes are encountered, gore areas, termination of concrete with triangular or odd shaped slabs, and at intersections with other streets.
10. For other joint requirements, see Section 411 – Portland Cement Concrete Pavement.
11. For locations of Longitudinal Joints, see Pavement Grading & Jointing Plans.

Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

DATE	REVISION
6/20/03	⚠3 Revised Note 9 and Typical Joint Location And Layout Plan for Constant P.C.C. Pavement Widening.

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

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SIGNATURE 7/11/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT DETAILS – 1

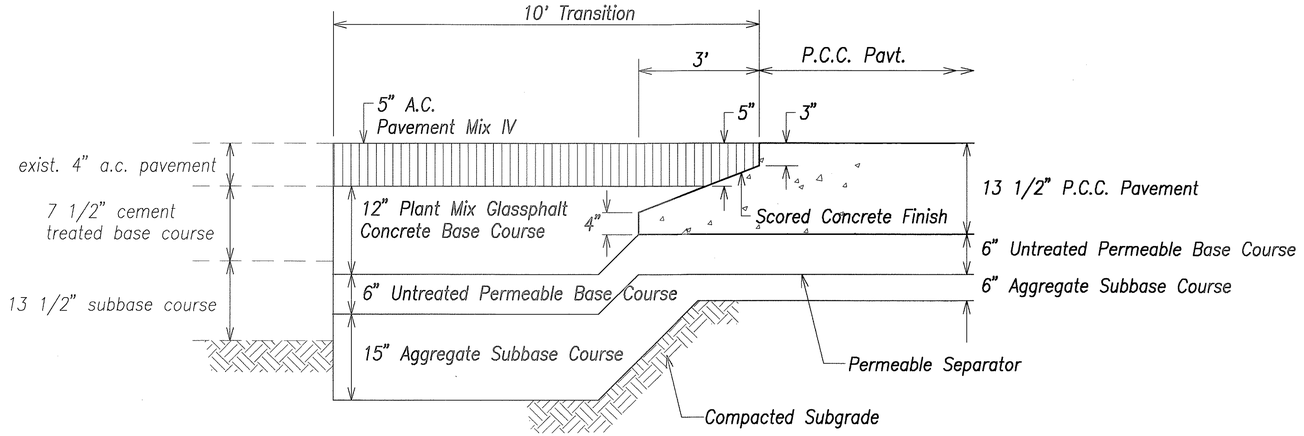
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC6.12 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

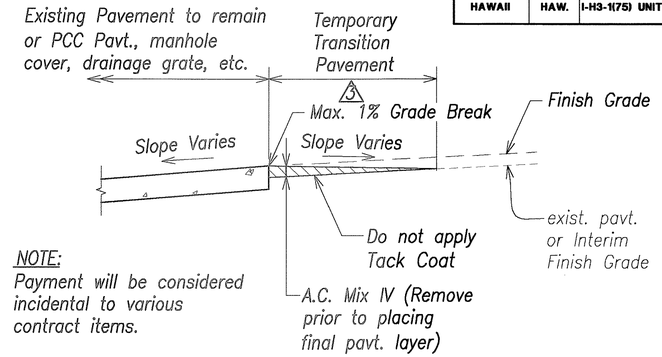
ADD. 108

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 109	816



1 AC6.13 | AC6.13 — P.C.C.–A.C. Transverse Transition Detail ⚠3 ⚠5

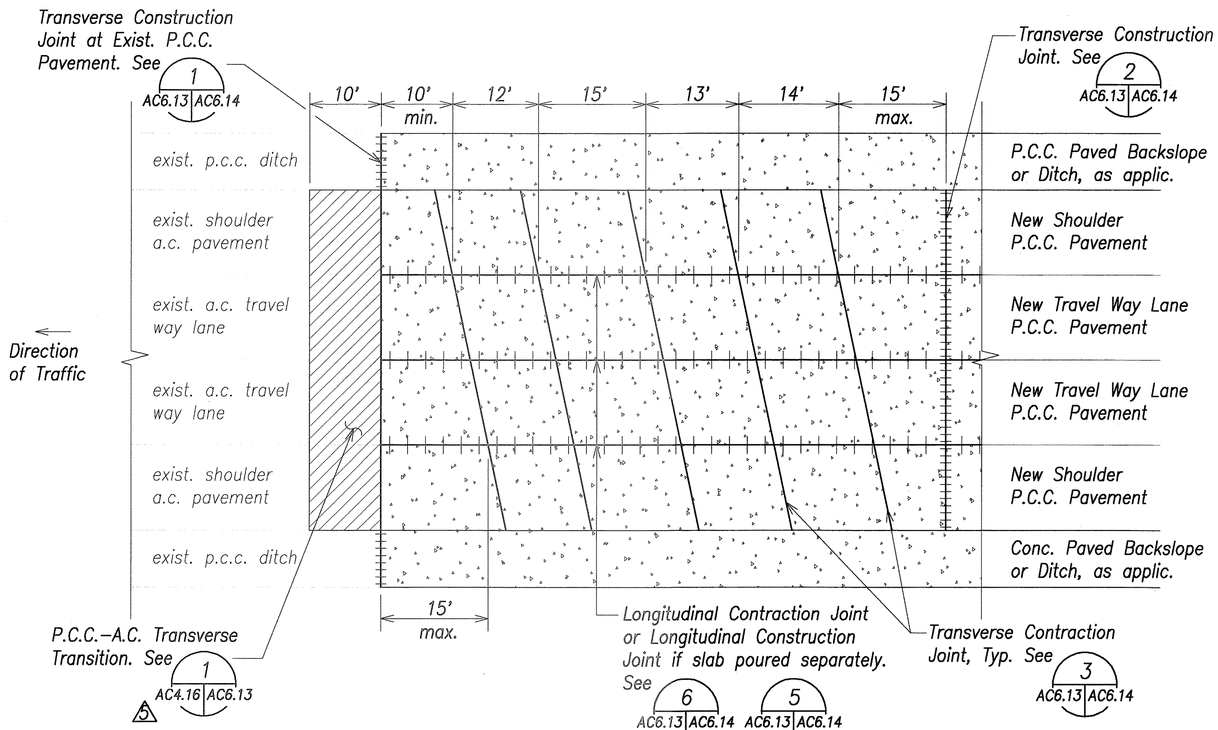
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NOTE:
Payment will be considered incidental to various contract items.

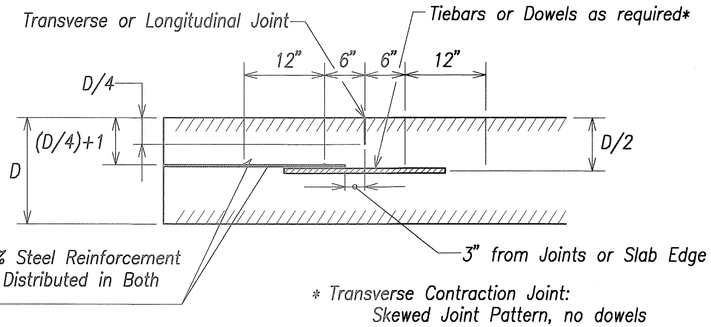
2 AC6.13 | AC6.13 — Temporary Transition Pavement

Scale: Not To Scale



⚠3 Typical Joint Location And Layout Plan For Ramp "E" P.C.C. Pavement

Scale: 1" = 10'



* Transverse Contraction Joint:
Skewed Joint Pattern, no dowels
Perpendicular Joint Pattern, use dowels
Transverse Construction Joint, use dowels
Longitudinal Joint, use tiebars

Notes:

1. For dowel or tiebar details and joint construction details, see applicable transverse or longitudinal joint details, Sht. AC6.14.
2. Adjust placement of reinforcement bars to avoid interfering with movement of the dowels.

3 AC6.13 | AC6.13 — Reinforcement Typical Section For Odd-Shaped Slabs

Scale: Not To Scale

Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/16/03	⚠5 Revised Detail and Sheet Reference Number.
6/20/03	⚠3 Revised "P.C.C.–A.C. Transverse Transition Detail" and "Typical Joint Location and Layout Plan for Ramp "E" P.C.C. Pavement". Revised Callout.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT DETAILS – 2

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

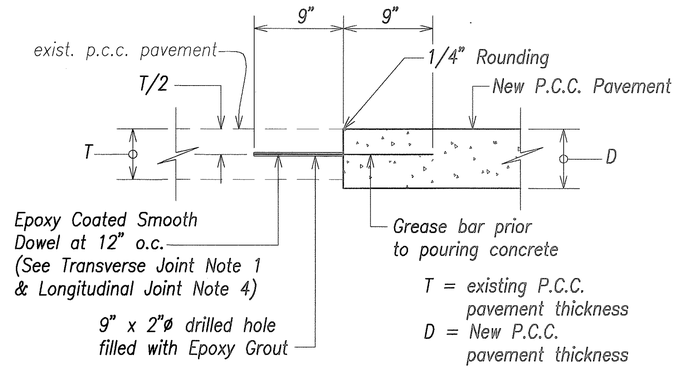
SHEET No. AC6.13 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

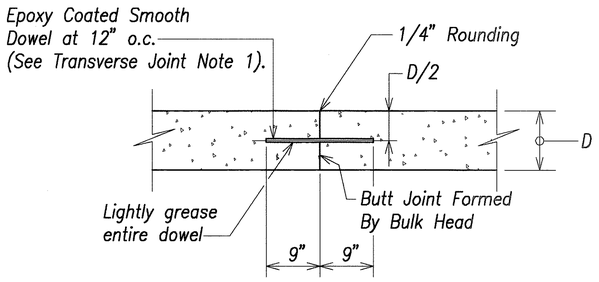
ADD. 109

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 110	816



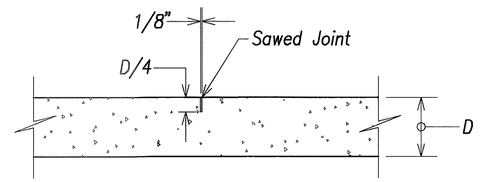
1 AC6.14 AC6.14 **Transverse And Longitudinal Construction Joint At Existing P.C.C. Pavement**

Scale: Not To Scale



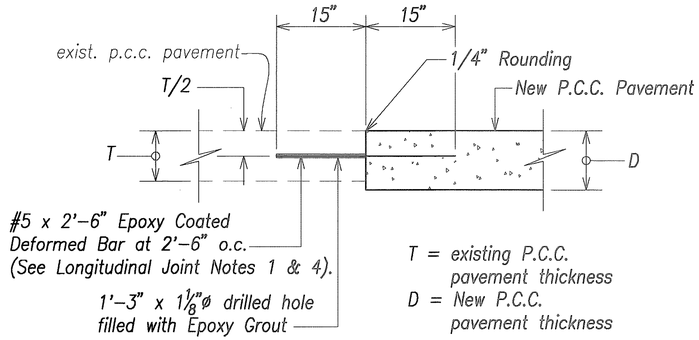
2 AC6.14 AC6.14 **Transverse Construction Joint (Contact Joint)**

Scale: Not To Scale



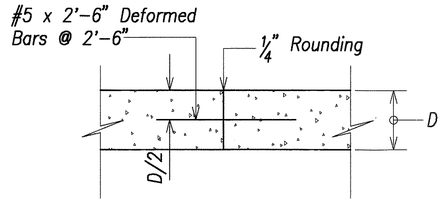
3 AC6.14 AC6.14 **Transverse Contraction Joint**

Scale: Not To Scale



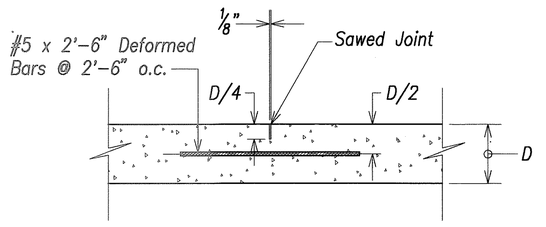
4 AC6.14 AC6.14 **Longitudinal Construction Joint At Existing P.C.C. Pavement**

Scale: Not To Scale



5 AC6.14 AC6.14 **Longitudinal Construction Joint** △2

Scale: Not To Scale



6 AC6.14 AC6.14 **Longitudinal Contraction Joint**

Scale: Not To Scale

Longitudinal Joint Notes:

△3 1. Epoxy-Coated Deformed Bars shall conform to ASTM A775/A775M-00 Grade 40.

2. Tiebars are to be located a minimum distance of 15 inches from a Transverse Joint. Tiebars closer to the transverse joint may interfere with joint movement.

3. The Contractor shall not damage the epoxy coating on the deformed bars in any way during shipment, handling or placement. Damaged epoxy-coated deformed bars shall be replaced at no cost to the State.

4. When existing longitudinal construction joint abuts new pavement over 22' wide, use epoxy coated smooth dowel (Detail 1 above), otherwise used epoxy coated deformed bar (Detail 4 above).

Transverse Joint Notes:

△3 1. Epoxy-Coated Dowels shall conform to AASHTO M 284/M 284M Grade 60. For pavements with D ≤ 10", use 1-1/4" ø x 1'-6" long dowels. For pavements with D ≥ 10", use 1-1/2" ø x 1'-6" long dowels.

2. Locate Transverse Construction Joints at the nearest planned Transverse Contraction Joint as shown on the jointing plans. Joint shall be perpendicular to paving lane.

3. It is critical that dowels be positioned in place parallel to the pavement surface and paving lane direction to avoid future cracks in the P.C.C. pavement. The ends of the dowels shall not deviate more than 0.01' from the parallel in 9" length.

4. See Shts. AC6.12 & AC6.13 for Typical Transverse Joint spacing.

5. The Contractor shall not damage the epoxy coating on the dowel in any way during shipment, handling or placement. Damaged epoxy-coated dowels or rebar shall be replaced at no cost to the State.

Location	D
Pavement Widening	12 ½" or 13 ½" (See Typical Sections)

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SIGNATURE _____ April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	△3 Revised Detail 5 and Note 1 for Both Longitudinal and Transverse Joint Notes.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT DETAILS - 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC6.14 OF 350 SHEETS

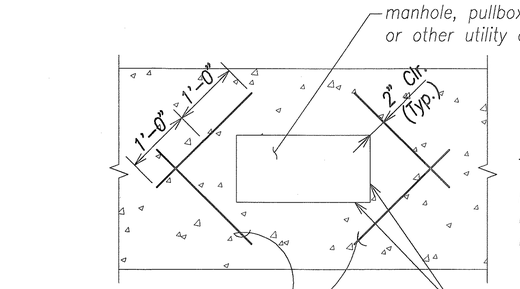
ADD. 110

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 111	816

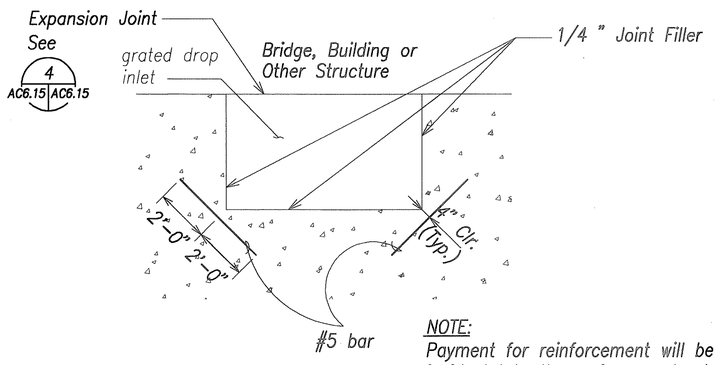


Note:

Payment for reinforcement will be considered incidental to various contract items.

1 AC6.15 AC6.15 **Typical Reinforcement Around Utility Covers In P.C.C. Pavement & Sidewalk**

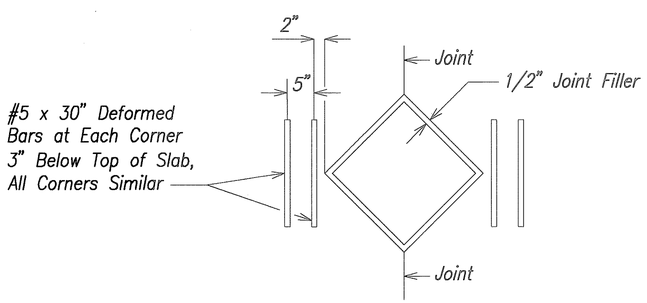
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NOTE:
Payment for reinforcement will be considered incidental to the various contract items.

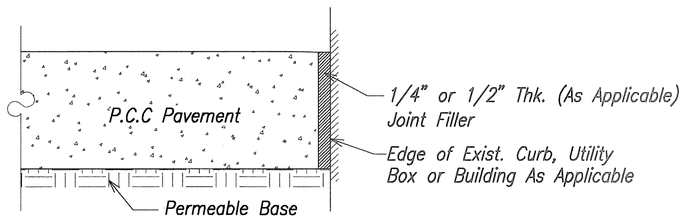
2 AC6.15 AC6.15 **Typical Reinforcement Around Drop Inlet In P.C.C. Pavement & Sidewalk**

Scale: Not To Scale



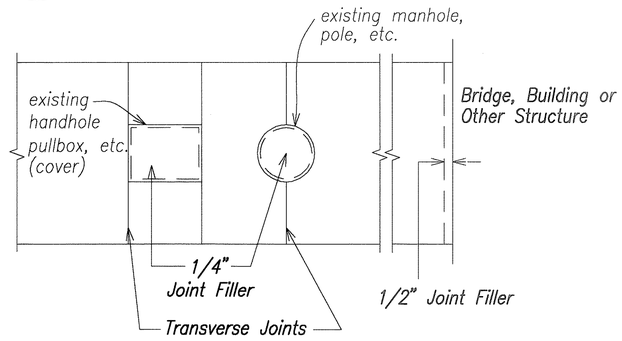
6 AC6.15 AC6.15 **Openings With Corners–Corners At A Joint Detail**

Scale: Not To Scale



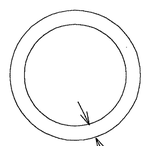
3 AC6.15 AC6.15 **Expansion Joint Detail**

Scale: Not To Scale



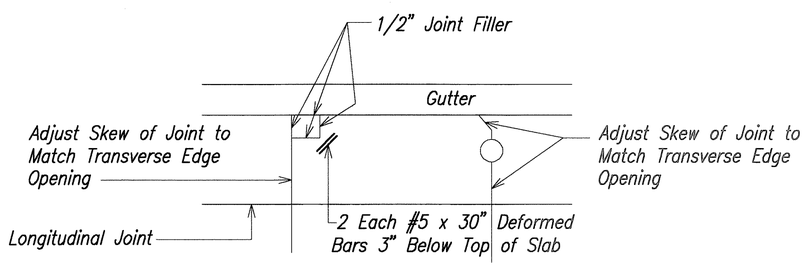
4 AC6.15 AC6.15 **Sidewalk Isolation Joint Detail**

Scale: Not To Scale



5 AC6.15 AC6.15 **Circular Opening Detail**

Scale: Not To Scale



7 AC6.15 AC6.15 **Openings Near Joints Detail**

Scale: Not To Scale

Notes:

1. Install Isolation Joints to allow the slab to move independently of objects that will not move evenly with the slab to minimize stress in the slab.
2. Minimize the amount of openings within the slab to minimize the areas from which cracking can occur. Listed below are considerations that can minimize cracking from openings in the slab.
   a. Install reinforcing bars at the corners as shown below.
   b. Use circular openings.
   c. Install the openings along a joint.
3. Locate openings in the slab that require access in a manner that minimizes the number of travelway lanes that need to be shut down when accessing the openings.
4. Locate openings along joints and configured to minimize the amount of corners within the slab.
5. Avoid locating access openings along or near the longitudinal joints that separate two travelway lanes.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT DETAILS – 4

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

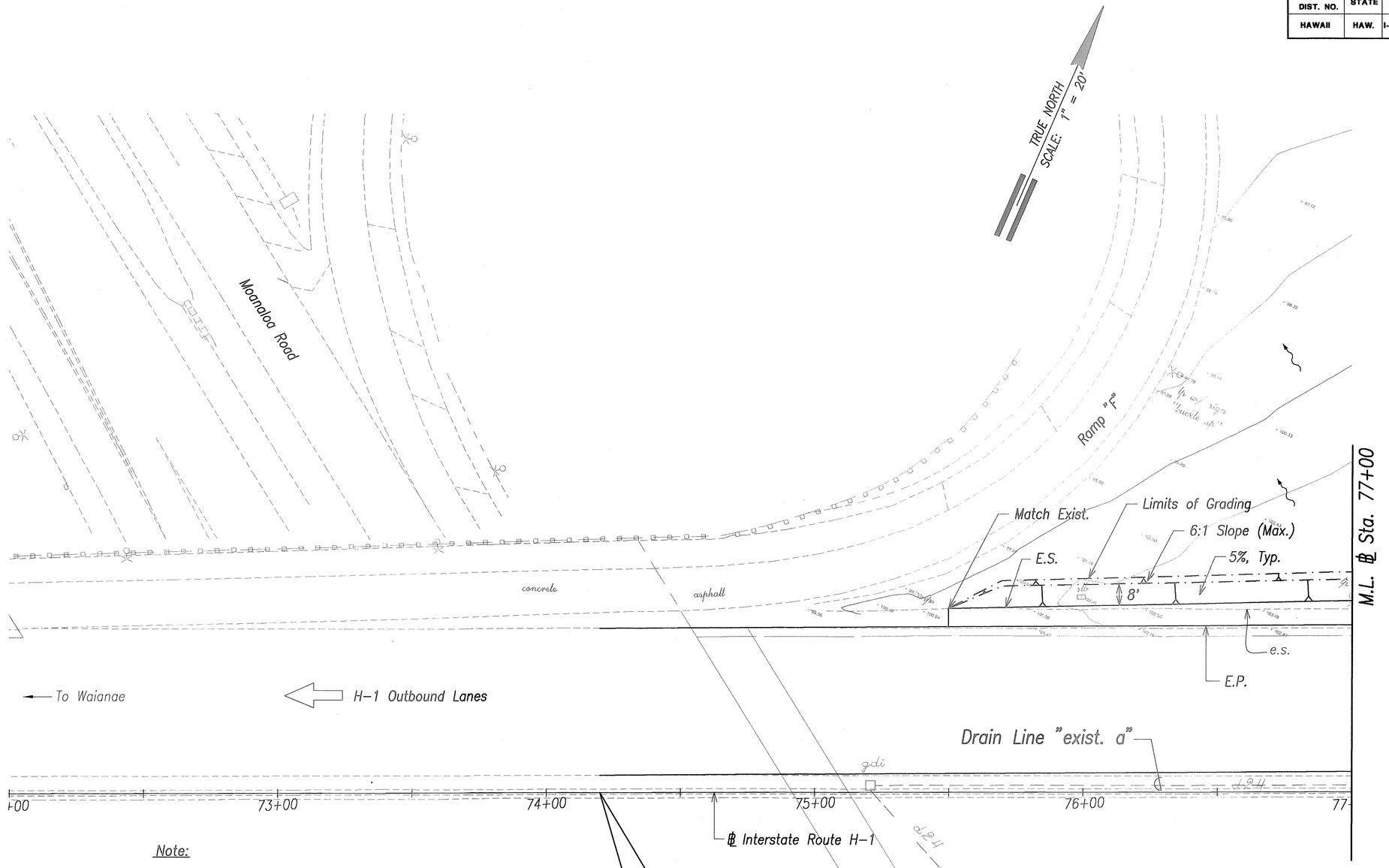
DATE	REVISION
6/20/03	3 Deleted "Typical Pavement Reconstruction" Detail.

SHEET No. AC6.15 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 111

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	112	816



Note:

For Pavement Grades, see Pavement Grading and Jointing Plans.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 74+20± TO ℄ STA. 77+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

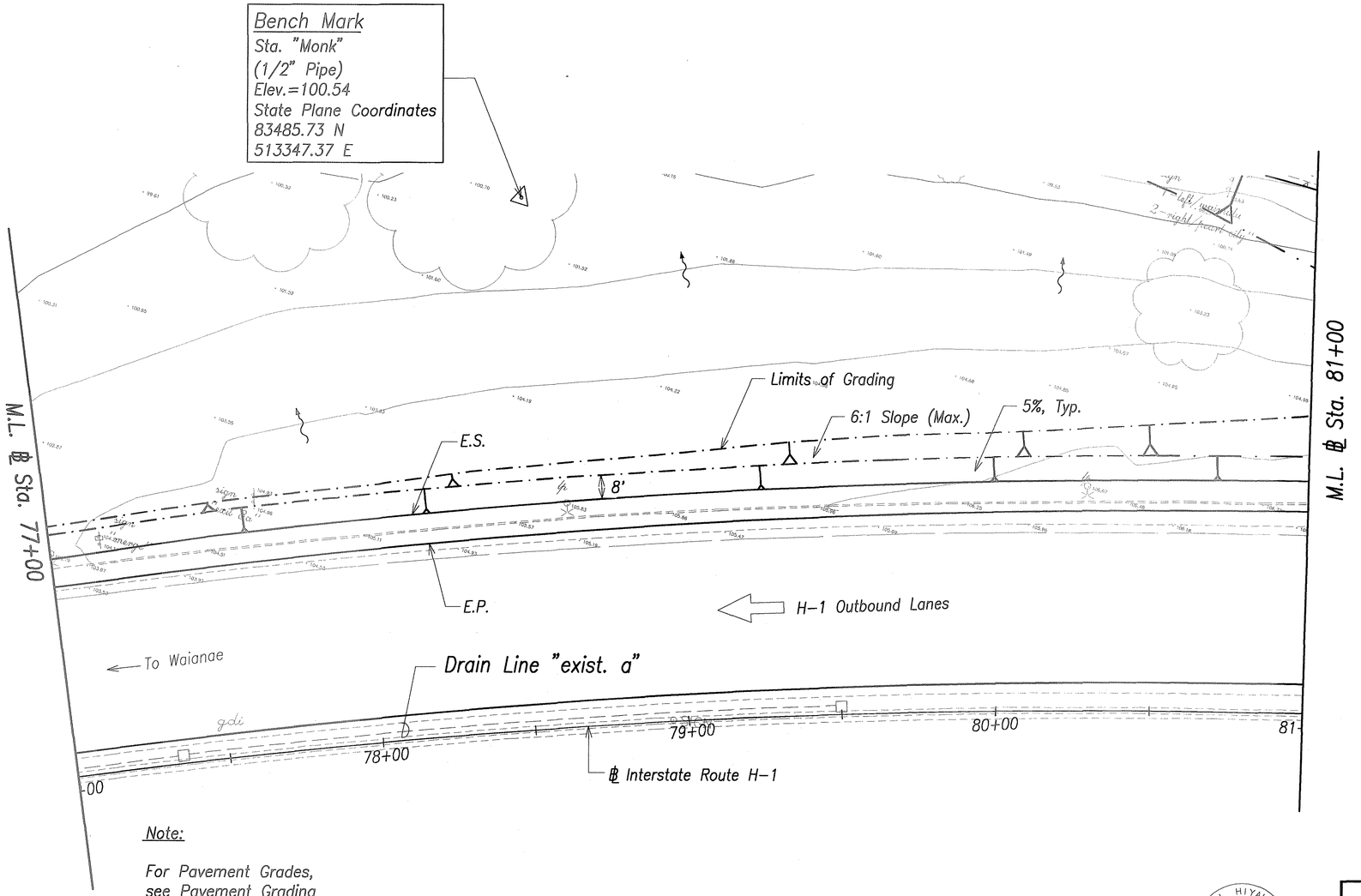
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.1 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E
K:\civil\3-02424\dwg\civil\dwg\Roadway Plan-1.dwg February 19, 2002 1:59pm SueF

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	113	816

TRUE NORTH
SCALE: 1" = 20'



Note:

For Pavement Grades, see Pavement Grading and Jointing Plans.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 77+00 TO ℄ STA. 81+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E
K:\civil\3-02424\dwg\civil\dwg\Roadway Plan-2.dwg February 19, 2002 1:57pm SueF

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	115	816

TRUE NORTH
SCALE: 1" = 20'

Limits of Grading

Bench Mark
Sta. "Bottom"
(1/2" Pipe)
Elev.=98.59
State Plane Coordinates
83581.67 N
514370.73 E

2:1 Slope (Max.)

exist. 96" ø
sectional plate pipe

Inlet Structure No. 1
(For Det., see Sht. AC7.35)
(For Reinf., see Shts. AW9.6 & AW9.8)

Ditch C, Type "D"
(For Det., see Sht. AC7.31)

Ditch Transition
See Sht. AC7.32

H-1 ℄ Sta. 89+77.4,
o/s 118.2'± Lt.
End Ditch C
Connect to Exist. Conc. Ditch.
(For Det., see Sht. AC7.33)

Remove and Reconstruct
Existing Conc. Ditch for
Irrigation Sleeve Installation
(see Sht. AC5.9)

M.L. ℄ Sta. 86+00

2:1 Slope (Max.)

exist. R/W

exist. conc. ditch

258°22'55", 82.03'

2:1 Slope (Max.)

exist. conc. ditch

M.L. ℄ Sta. 91+00

Ditch Transition
See Sht. AC7.32

H-1 ℄
Sta. 90+90.4,
Begin Ditch D

guardrail

stripe

25+00

26+00

27+00

27+58.88
=H-1 ℄ Sta. 88+70.5

℄ Ramp "E"

H-1 ℄ Sta. 89+18.5±,
Begin Ditch C

exist. conc. ditch

Ditch D, Type "A"
(For Profile, see Sht. AC7.29
For Det., see Sht. AC7.31)

H-1 Outbound Lanes

To Waianae

87+00

88+00

89+00

90+00

℄ Interstate Route H-1

exist. 96" ø
sectional plate pipe

Note:

For Pavement Grades, see Pavement Grading and Jointing Plans.

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

Graphic Scale
1" = 20'
20' 10' 0 20' 40'
Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE — EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 86+00 TO ℄ STA. 91+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.4 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E
K:\civil\3-02424\dwg\civil\dwg\Roadway Plan-4.dwg February 19, 2002 2:30pm SueF

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	115	816

TRUE NORTH
SCALE: 1" = 20'

Limits of Grading

Bench Mark
Sta. "Bottom"
(1/2" Pipe)
Elev.=98.59
State Plane Coordinates
83581.67 N
514370.73 E

2:1 Slope (Max.)

exist. 96" ø
sectional plate pipe

Inlet Structure No. 1
(For Det., see Sht. AC7.35)
(For Reinf., see Shts. AW9.6 & AW9.8)

Ditch C, Type "D"
(For Det., see Sht. AC7.31)

Ditch Transition
See Sht. AC7.32

H-1 ℄ Sta. 89+77.4,
o/s 118.2'± Lt.
End Ditch C
Connect to Exist. Conc. Ditch.
(For Det., see Sht. AC7.33)

Remove and Reconstruct
Existing Conc. Ditch for
Irrigation Sleeve Installation
(see Sht. AC5.9)

M.L. ℄ Sta. 86+00

2:1 Slope (Max.)

exist. R/W

exist. conc. ditch

258°22'55", 82.03'

2:1 Slope (Max.)

exist. conc. ditch

M.L. ℄ Sta. 91+00

Ditch Transition
See Sht. AC7.32

H-1 ℄
Sta. 90+90.4,
Begin Ditch D

guardrail

stripe

25+00

26+00

27+00

27+58.88
=H-1 ℄ Sta. 88+70.5

℄ Ramp "E"

H-1 ℄ Sta. 89+18.5±,
Begin Ditch C

exist. conc. ditch

Ditch D, Type "A"
(For Profile, see Sht. AC7.29
For Det., see Sht. AC7.31)

H-1 Outbound Lanes

To Waianae

87+00

88+00

89+00

90+00

℄ Interstate Route H-1

exist. 96" ø
sectional plate pipe

Note:

For Pavement Grades, see Pavement Grading and Jointing Plans.

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

Graphic Scale
1" = 20'
20' 10' 0 20' 40'
Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE — EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 86+00 TO ℄ STA. 91+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.4 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E
K:\civil\3-02424\dwg\civil\dwg\Roadway Plan-4.dwg February 19, 2002 2:30pm SueF

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 116	816

TRUE NORTH
SCALE: 1" = 20'

Bench Mark
Sta. "Kaa1"
(1/2" Pipe)
Elev.=114.84
State Plane Coordinates
83542.26 N
514808.11 E

Ditch D, Type "A"
(For Profile, see Sht. AC7.29
For Det., see Sht. AC7.31)

2:1 Slope (Max)
exist. conc. ditch
exist. R/W
Limits of Grading
H-1 ℄ Sta. 94+95.09
End Ditch D
Begin Ditch E
Ditch Transition
See Sht. AC7.32
Ditch D
Ditch E
2% Slope
2:1 Slope (Max.)
Ditch Transition
(From Type "E" to
Type "A")
See Sht. AC7.32
Type "E"
Type "A"
(Beyond)
D24
D24
E.P.
H-1 Outbound Lanes
Begin Drain Line "A"
GDI A-1
Type "A1"
H-1 ℄ Sta. 94+50,
5 o/s 101.25' Lt.
Inv.=88.80
(For Det., see Sht. AW16.3)
SDMH A-2
Type "A"
H-1 ℄ Sta. 94+50,
o/s 87' Lt.
Inv.=88.50 (D24)
(For Det., see State Std. Det. H-5)
H-1 ℄ Sta. 95+75
Ditch E
End Type "E"
Begin Type "A"
Ditch E
Type "E"
(For Profile, see
Sht. AC7.29
For Type "E"
Ditch Det., see
Sht. AW2.4)
Drain Line "A"
(For Profile, see
Sht. AC7.20)
exist. conc. ditch
exist. conc. barrier
To Waianae
E.P.
M.L. ℄ Sta. 91+00
92+00
93+00
94+00
95+00
96+00
M.L. ℄ Sta. 96+00
℄ Interstate Route H-1
Kaahumanu Street Overpass
(Austin Bishop Separation)

Note:

For Pavement Grades, see Pavement Grading and Jointing Plans.

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised GDI Type A1 and Ditch Transition.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 91+00 TO ℄ STA. 96+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

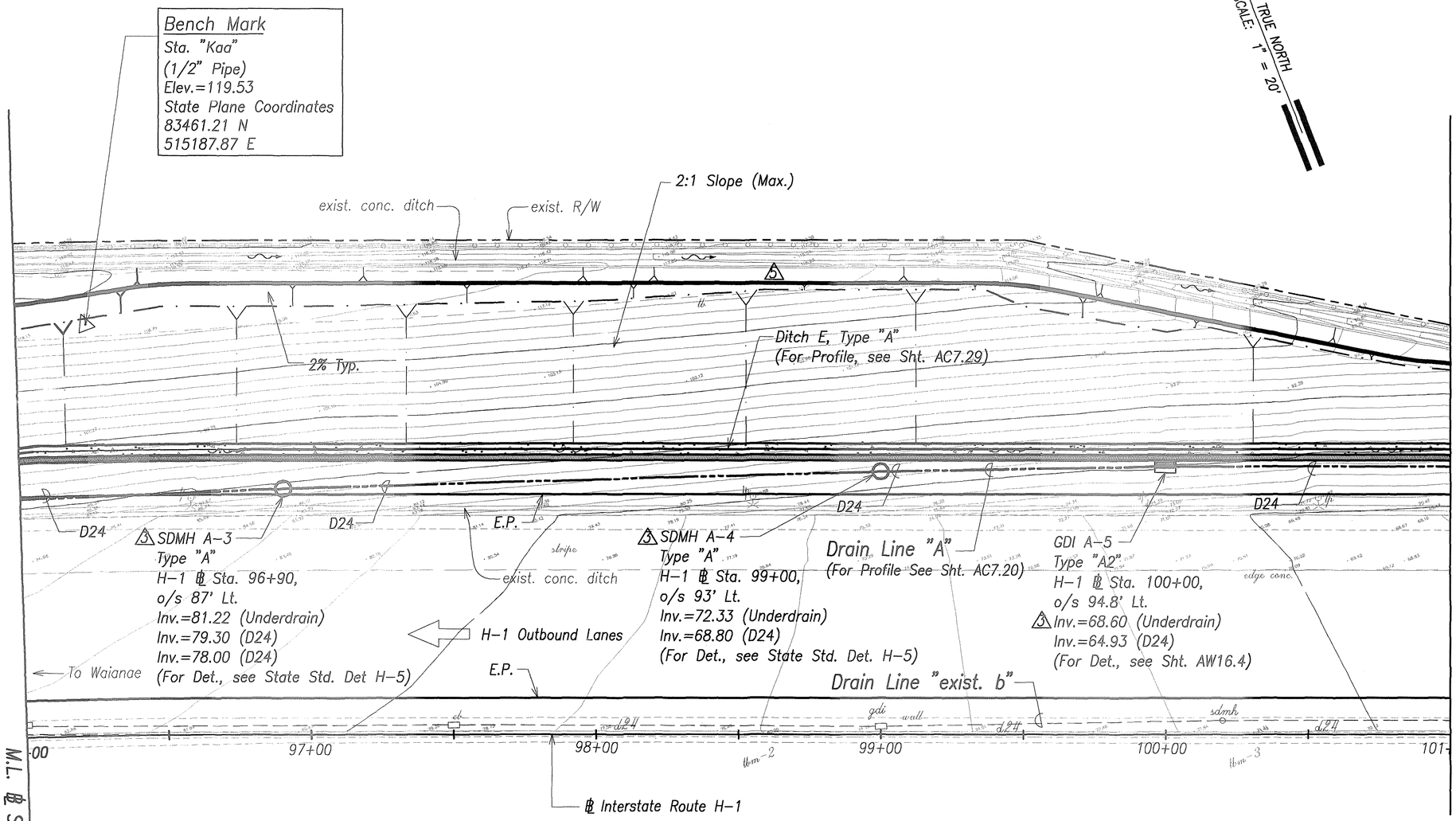
SHEET No. AC7.5 OF 350 SHEETS

ADD. 116

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 117	816



Note:

For Pavement Grades, see Pavement Grading and Jointing Plans.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Relocated NBW.
6/20/03	3 Revised SDMH A-3 and SDMH A-4. Revised GDI A-5 Invert.

ORIGINAL PLAN

SURVEY PLOTTED BY ____ DATE
DRAWN BY ____
TRACED BY ____
DESIGNED BY ____
QUANTITIES BY ____
CHECKED BY ____
NOTE BOOK ____
No. ____

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 4/7/04 April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 96+00 TO ℄ STA. 101+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.6 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 117

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 118	816

TRUE NORTH
SCALE: 1" = 20'

Bench Mark
Sta. "Slope"
(1/2" Pipe)
Elev.=85.76
State Plane Coordinates
83230.88 N
515714.84 E

Bench Mark
Sta. "Still"
(1/2" Pipe)
Elev.=40.49
State Plane Coordinates
83158.40 N
515933.78 E

SDMH A-7
Type 'A'
H-1 ℄ Sta. 102+65,
o/s 93' Lt.
(3) Inv.=60.42
(Underdrain)
(3) Inv.=57.00 (D24)
Inv.=52.13 (D24)
(For Det., see State Std. Det. H-5)

Type "A" Type "F"

H-1 ℄ Sta. 103+31.2±
Connect to Exist. Conc. Ditch.
See Sht. AC7.33.

H-1 ℄ Sta. 102+93.4
End Type "A" Ditch
Begin Type "F" Ditch

H-1 ℄ Sta. 103+52.75,
o/s 109' Lt.
Begin RSS-1 (3)

Limits of Grading

Limits of Construction Parcel

Reinforced Soil Slope
1.5:1 Slope (Max.)
(See Shts. AW11.1 to AW11.3)

Ditch E
Type "F"
(For Profile, see Sht. AC7.29
For Det., see Sht. AC7.31)

exist. conc. ditch

Ditch E
Type "A"
(For Profile, see Sht. AC7.29)

2:1 Slope (Max.)

exist. R/W

exist. conc. ditch

2:1 Slope (Max.)

6' (1) 4'

D24 D24 E.S. D24 D24 D24

5% Typ.

GDI A-9
Type "A2"
H-1 ℄ Sta. 104+25,
o/s 94.5' Lt.
(3) Inv.=55.00 (Underdrain)
Inv.=50.88 (D24)
(For Det., see Sht. AW16.4)

GDI A-10
Type "A2"
H-1 ℄ Sta. 105+25,
o/s 94.5' Lt.
(3) Inv.=52.10 (Underdrain)
(3) Inv.=48.85 (D24)
(For Det., see Sht. AW16.4)

Drain Line "A"
(For Profile, see Sht. AC7.20)

GDI A-6
Type "A2"
H-1 ℄ Sta. 101+80,
o/s 94.8' Lt.
(3) Inv.=62.55 (Underdrain)
(3) Inv.=59.05 (D24)
(For Det., see Sht. AW16.4)

GDI A-8
Type 'A3'
H-1 ℄ Sta. 103+36,
o/s 94.5' Lt.
(3) Inv.=58.25 (Underdrain)
(3) Inv.=51.77 (D24)
(3) (For Det., see Sht. AW16.7)

H-1 Outbound Lanes

E.P.

E.P.

To Waianae

Drain Line "exist. b"

℄ Interstate Route H-1

M.L. ℄ Sta. 101+00 | 102+00 | 103+00 | 104+00 | 105+00 | 106+00 M.L. ℄ Sta. 106+00

Note:

For Pavement Grades, see Pavement Grading and Jointing Plans.

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
10/16/03	(3) Relocated NBW.
6/20/03	(3) Revised Reference, Inverts and Dimensions; Deleted "Invert of Swale" Callout.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 101+00 TO ℄ STA. 106+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

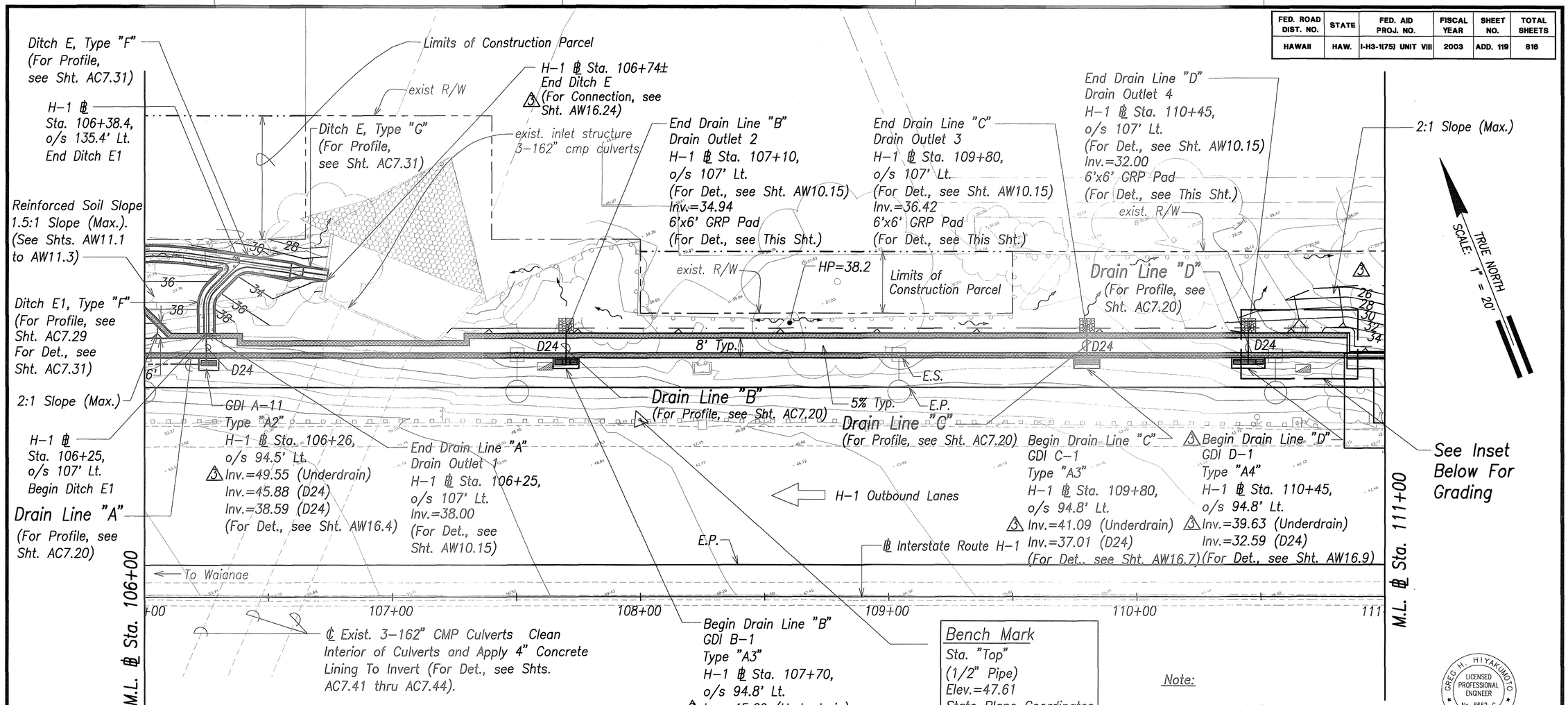
SHEET No. AC7.7 OF 350 SHEETS

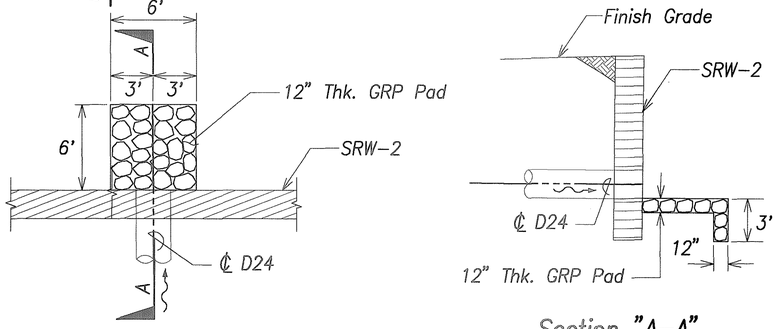
ORIGINAL PLANS — SURVEY PLOTTED BY — DRAWN BY — TRACED BY — DESIGNED BY — QUANTITIES BY — CHECKED BY — DATE
NOTE BOOK — No.

RMTC JOB NO.: 1-19369-0E

ADD. 118

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 119	816

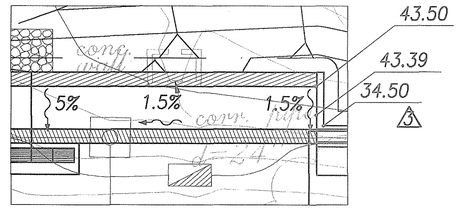




Plan
Scale: 1" = 5'

Section "A-A"
Scale: 1" = 5'

6'x6' Grouted Rubble Pavement (GRP) Pad Detail



Inset
Scale: 1" = 10'

Graphic Scales

1" = 5' 5' 0 5' 10'
Scale in Feet

1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
6/20/03	3 Revised Callout, Inverts and Grading; Deleted "Invert of Swale" Callout.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE 7/1/03 April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 106+00 TO ℄ STA. 111+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

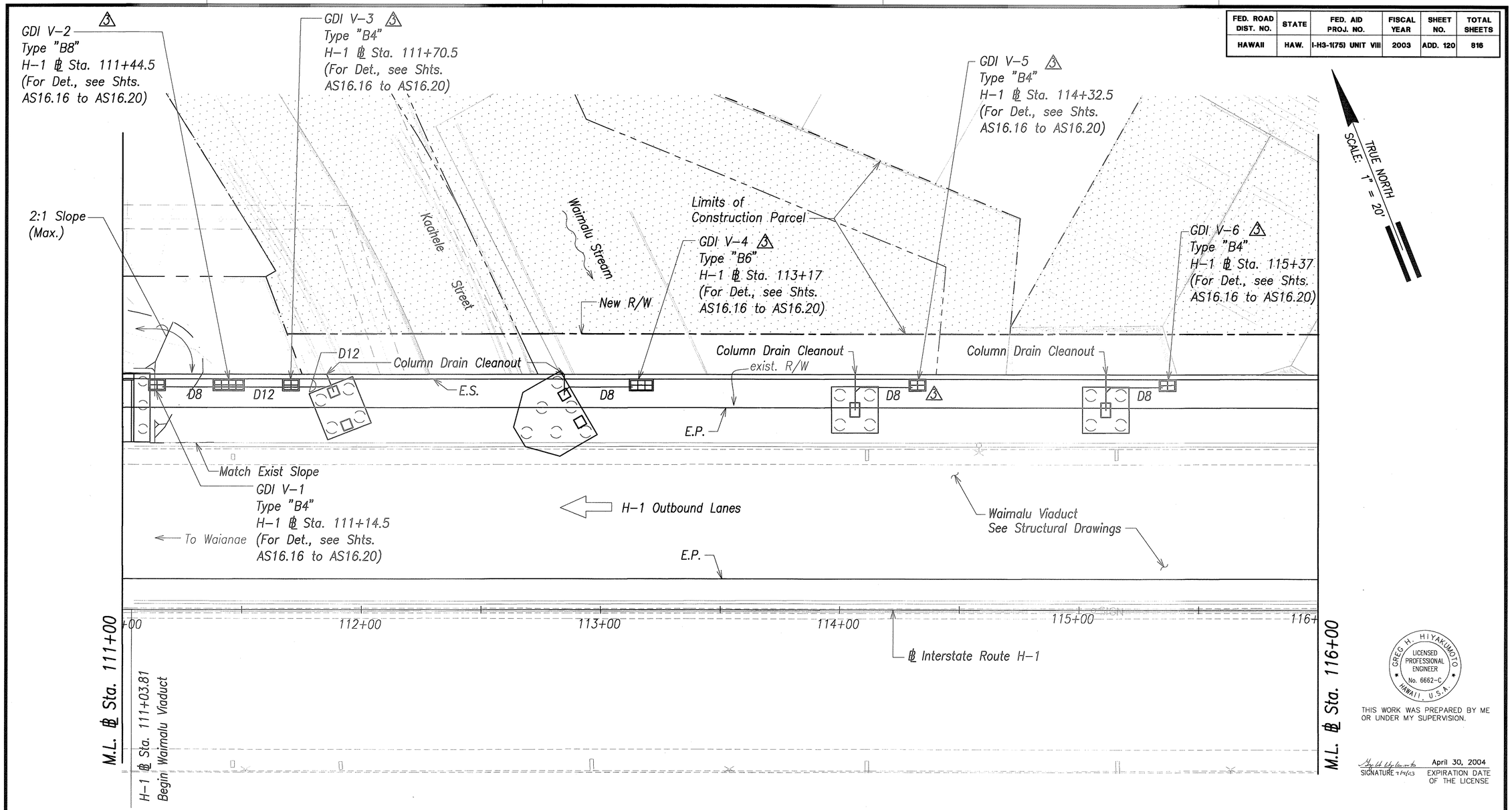
SHEET No. AC7.8 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 119

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 120	816



Notes:

1. For Pavement Grades, see Pavement Grading and Jointing Plans.
2. For inverts of GDIs and Cleanouts along Viaduct, see Schematic Diagrams for Drainage System Along Viaduct, Sht. AC7.28.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	③ Deleted Offsets; Relocated GDI V-5.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 7/4/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 111+00 TO ℄ STA. 116+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

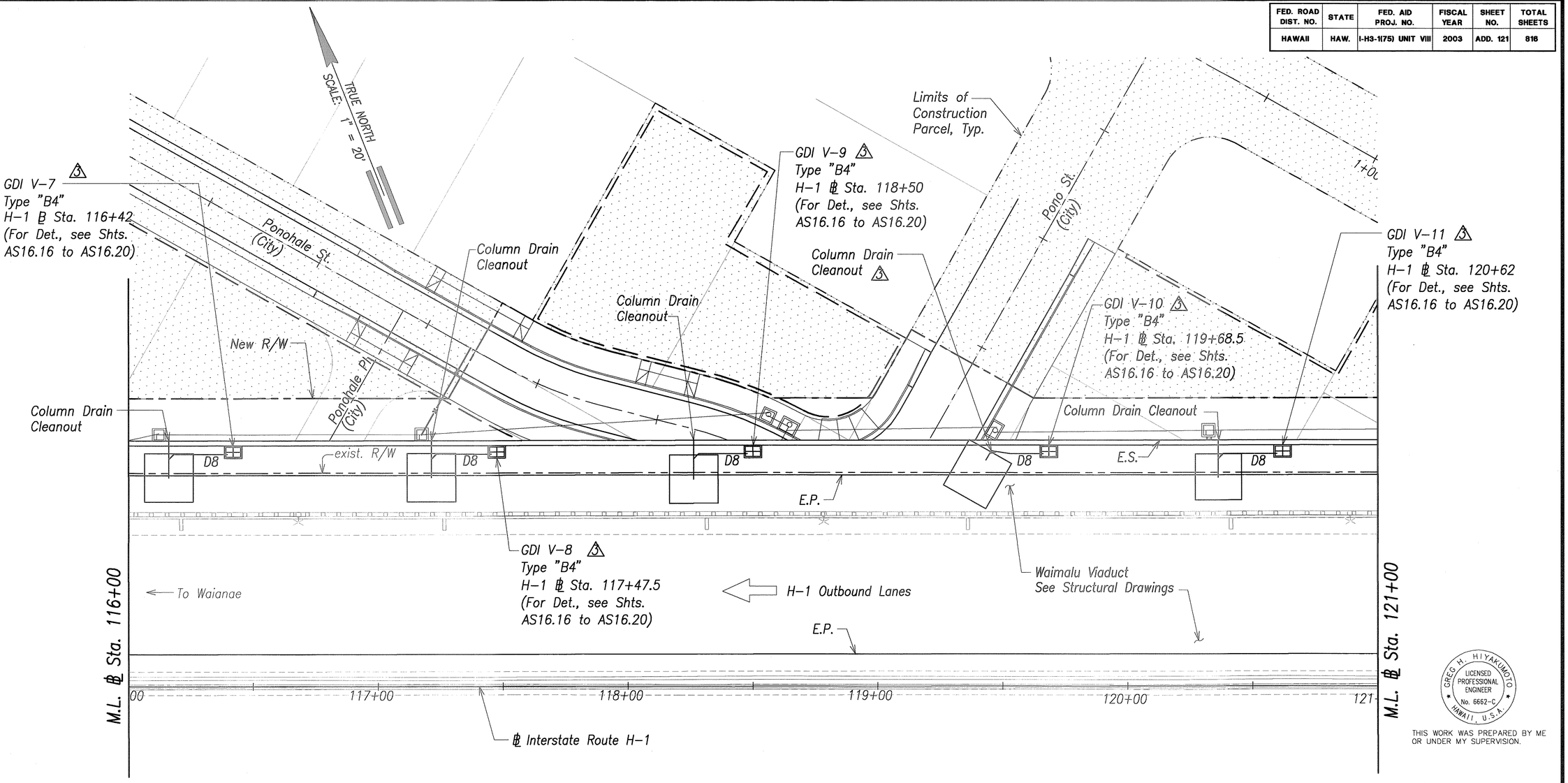
SHEET No. AC7.9 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

ADD. 120

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 121	816



Notes:

1. For Pavement Grades, see Pavement Grading and Jointing Plans.
2. For inverts of GDIs and Cleanouts along Viaduct, see Schematic Diagrams for Drainage System Along Viaduct, Sht. AC7.28.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	△3 Deleted Offsets.

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/19/03 April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 116+00 TO ℄ STA. 121+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 121

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 122	816

H-1 ℄ Sta. 123+33±, o/s 81± Lt. (Per ~~Record Drawings~~ Field Verification) exist. SDMH
~~top=65.0±~~
~~inv.= 60.0± (36")(Per Record Drawings)~~
~~inv.= 56.0± (36")(Per Record Drawings)~~
Remove exist d36 and Connect New 36" RCP, CL. III
top=67.8± (Per Field Verification)
inv.=60.8± (Per Field Verification)

GDI V-12 Type "B4" H-1 ℄ Sta. 121+67.5 (For Det., see Shts. AS16.16 to AS16.20)

Column Drain Cleanout

Column Drain Cleanout

TRUE NORTH
SCALE: 1" = 20'

Ponohana Loop

2+00 (City)

3+00

exist. conc. ditch

CS4 Install 36" RCP, CL. III After the Temporary 36" HDPE Pipe is Demolished and Removed

CS2a Install 36" RCP, CL. III After the Existing 36" Drain Line is Demolished and Removed

CS3 Install Abut. "B" Footing After the Temp. 36" HDPE Pipe is Installed

CS1 Demolish and remove Approximately 63 LF of Existing D36

New R/W

D8

E.S.

D8

exist. R/W

E.P.

~~exist. d36 (see note 3)~~

Waimalu Viaduct
See Structural Drawings

CS2a ~~H-1 ℄ Sta. 123+70, o/s 81' Lt. Conn. to Exist. D36 With Concrete Collar Inv.= 68.31 (For Profile, see Sht. AC7.21) (For Det., see Sht. AW17.3)~~
H-1 ℄ Sta. 123+73±, o/s 83.0'± Lt. 1'-36" Wye with Concrete Collars Temporarily Plug 36" (RCP) for Ultimate Connection to GDI E-1 Inv.= 62.8± (For Del., see Struct.)

CS2a H-1 ℄ Sta. 123+81.6±, o/s 92.5'± Lt. 1-36" 1/8 Bend (TV) with Concrete Collars (See Struct) Inv=71.2±

M.L. ℄ Sta. 121+00

122+00

123+00

124+00

GDI V-13 Type "B4" H-1 ℄ Sta. 122+72.5 (For Det., see Shts. AS16.16 to AS16.20)

To Waianae

H-1 Outbound Lanes

CS2b Install Temp. 36" HDPE Pipe after the Existing 36" Drain Line is Demolished and Removed.

CS5 Demolish and Remove Temp. D36 HDPE Pipe and Plug End After GDI E-1 is connected (See Struct.)

H-1 ℄ Sta. 123+54.31 End Waimalu Viaduct

~~36" RCP, Class III (For Profile, see Sht. AC7.21)~~

~~H-1 ℄ Sta. 123+91±, o/s 81'± Lt. exist. horizontal bend inv.= 74.00± (36")~~

CS2b H-1 ℄ Sta. 123+90.2±, o/s 83.9'± Lt. 1-36" (HDPE) 1/8 Bend (BV) Connect to Exist. 36" Inv=63.6± (e/36" & Temp. 36") 124+00

~~GDI G-1, Type "A1" H-1 ℄ Sta. 124+06, o/s 101.25' Lt. Inv.=77.24 (For Det., see Sht. AW16.3)~~

~~H-1 ℄ Sta. 124+03.83 Begin Ditch "F"~~

Limits of Construction Parcel

Drain Line "H" (For Profile See Sht. AC7.23)

GDI H-2, Type "A1" H-1 ℄ Sta. 125+07, o/s 101.26' Lt. Inv.=90.21 (D24) Inv.=81.06 (D24) (For Det., see Sht. AW16.3)

Ditch Transition (See Sht. AC7.32)

Ditch Transition (See Sht. AC7.32)

Drain Line "E" (For Profile, see Shts. AC7.21 & AC7.22)

H-1 ℄ Sta. 125+05 Begin Ditch G

GDI H-1 Type "A1" H-1 ℄ Sta. 125+06.83, o/s 138.17' Lt. Inv.=104.38 (For Det., see Sht. AW16.3A)

Ditch Transition (See Sht. AC7.32)

Ditch G Type "A-2" (For Profile, see Sht. AC7.30 For Det., see Sht. AC7.31)

2:1 Slope (Max.)

Ditch F Type "A" (For Profile, see Sht. AC7.30 For Det., see Sht. AC7.31)

D24

D36

D36

~~Drain Line "G" (For Profile, see Sht. AC7.23)~~

~~Begin Drain Line "E"~~

~~H-1 ℄ Sta. 124+00, o/s 63' Lt. Conn. to Exist. D24 With Concrete Collar Inv.=75.87± (For Profile, see Sht. AC7.23) (For Det., see Sht. AW17.4)~~

GDI E-1 Type "A5" H-1 ℄ Sta. 124+02, o/s 92.49' Lt. Inv.=79.83 (Underdrain) Inv.=76.89 (D24) Inv.=75.25 (D24) Inv.=73.31 (D36) ~~Inv.=72.90 (D36)~~ (For Det., see Sht. AW16.10) Inv.=71.85 (D36) (Out)

~~Drain Line "F" 24" RCP, Class III (For Profile, see Sht. AC7.23)~~

H-1 ℄ Sta. 123+96.1±, o/s 78.5'± Lt. =Connect to Exist. D36 1-36" ⅛ Bend (TV) Inv.=74.5±

exist. conc. ditch

GDI E-3 Type "A2" H-1 ℄ Sta. 125+70, o/s 94.08' Lt. Inv.=86.34 (Underdrain) Inv.=81.40 (D36) (For Det., see Sht. AW16.5)

E.P.

GDI E-2 Type "A3" H-1 ℄ Sta. 125+07, o/s 94.08' Lt. Inv.=83.88 (Underdrain) Inv.=80.73 (D24) Inv=78.80 (D36) (For Det., see Sht. AW16.8)

M.L. ℄ Sta. 126+00

125+00

126+

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

Notes:

1. For Pavement Grades, see Pavement Grading and Jointing Plans.
2. For inverts of GDIs and Cleanouts along Viaduct, see Schematic Diagrams for Drainage System Along Viaduct, Sht. AC7.28.
3. Contractor shall locate and verify exist. d36 prior to construction. The Engineer shall be notified of any discrepancies.

LEGEND FOR AS-BUILT POSTINGS

~~WWWW~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised GDI Type A1, Ditch Transitions, Offsets, Inverts, and Callouts; Added Callouts and Note 3.; Deleted Offset.
6/20/03	3 Revised References and GDI E-2 Invert; Deleted and Revised Offsets.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 121+00 TO ℄ STA. 126+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.11 OF 350 SHEETS

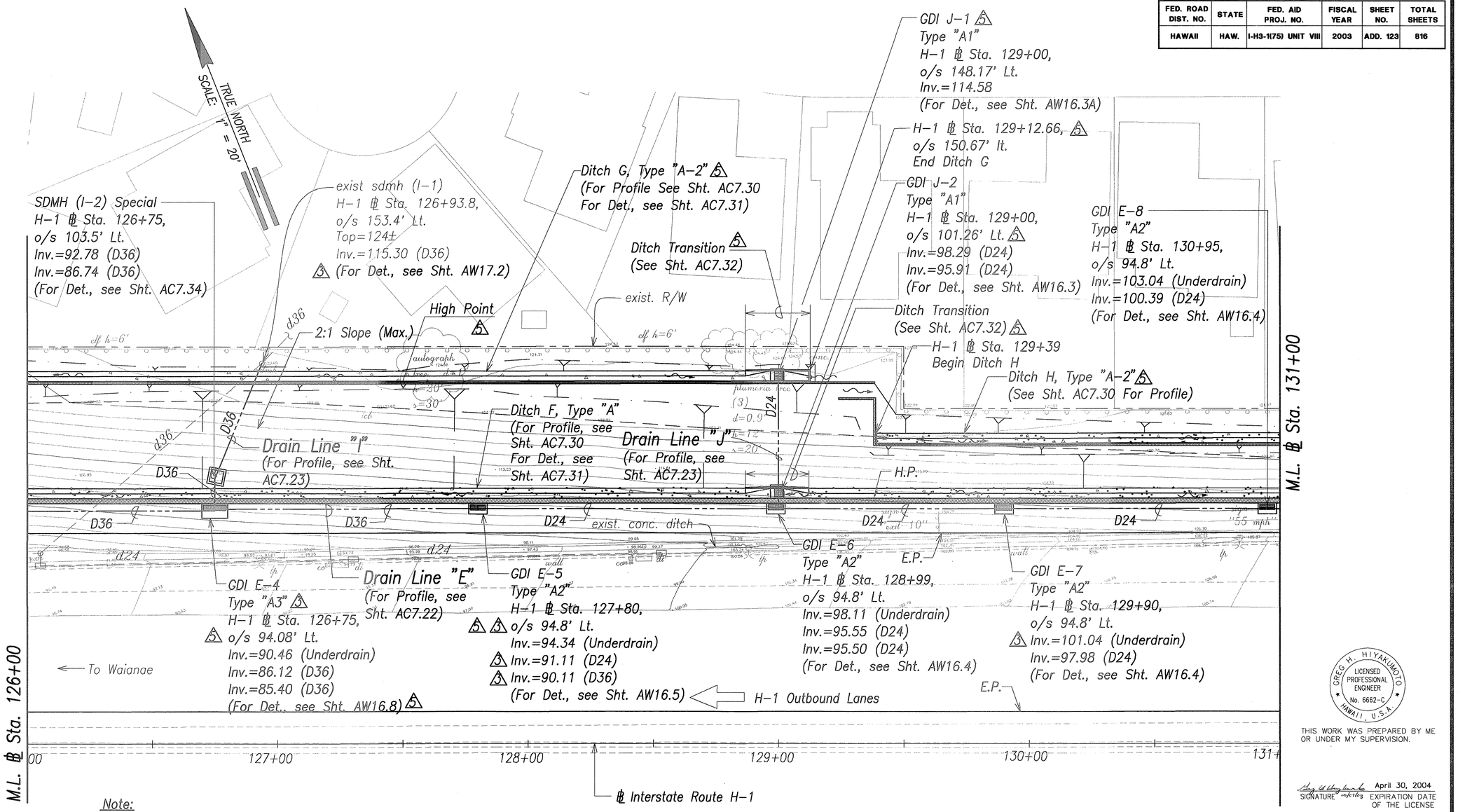
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

RMTC JOB NO.: 1-19369-OE

"AS-BUILT" ADD. 122

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 123	816



Note:

For Pavement Grades, see Pavement Grading and Jointing Plans.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised GDI Type A1, Ditch Transitions, Offsets, Inverts, Reference and Callouts; Added Callout.
6/20/03	5 Revised GDI E-4 Type; Revised Inverts and Offset; Added Reference.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 126+00 TO ℄ STA. 131+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.12 OF 350 SHEETS

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

RMTC JOB NO.: 1-19369-0E

ADD. 123

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 124	816

TRUE NORTH
SCALE: 1" = 20'

End Drain Line "E"
GDI E-11
Type "A1"
H-1 ℄ Sta. 134+05.5,
5 o/s 101.25' Lt.
Inv.=104.18
(For Det. See Sht. AW16.3)

GDI K-1 5
Type "A1"
H-1 ℄ Sta. 132+00,
o/s 123.17' Lt.
Inv.=110.33
(For Det., see Sht. AW16.3A)

Ditch H, Type "A-2" 5
(For Profile, see Sht. AC7.30
For Det., see Sht. AC7.31)

Drain Line "K"
(For Profile, see Sht. AC7.23)
H-1 ℄ Sta. 132+12.68
o/s 123.58' Lt.
End Ditch H 5

Bench Mark
Sta. "Ditch"
(1/2" Pipe)
Elev.=111.83
State Plane Coordinates
82033.63 N
518704.17 E

5 Ditch Transition
(See Sht. AC7.32)

2:1 Slope (Max.)

H.P.

Ditch F, Type "A"
(For Profile, see Sht. AC7.30
For Det., see Sht. AC7.31)

5 Ditch Transition
(See Sht. AC7.32)

exist. R/W

5 Ditch Transition
(See Sht. AC7.32)

D24

5 Ditch Transition
(See Sht. AC7.32)

exist. conc. ditch

D24 D24 D24

E.P.

GDI K-2
Type "A1"
H-1 ℄ Sta. 132+00,
5 o/s 101.25' Lt.
Inv.=102.56
(For Det., see Sht. AW16.3)

GDI E-9
Type "A2"
H-1 ℄ Sta. 131+99,
o/s 94.8' Lt
5 Inv.=105.27 (Underdrain)
Inv.=102.18 (D24)
(For Det., see Sht. AW16.4)

Drain Line "E"
(For Profile, see Sht. AC7.22)

SDMH E-10
Type "A"
H-1 ℄ Sta. 134+05.5,
o/s 94.8' Lt.
5 Inv.=106.68 (Underdrain)
Inv.=103.80 (D24)
Inv.=103.48 (D24)
(For Det., see C&C Std. Det. H-5)

exist. s12 and
r.c. jacket

← To Waianae

H-1 Outbound Lanes →

E.P.

wall

wall

M.L. ℄ Sta. 131+00

132+00

133+00

134+00

135+00

136+

M.L. ℄ Sta. 136+00

℄ Interstate Route H-1

Note:

For Pavement Grades,
see Pavement Grading
and Jointing Plans.

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised GDI Type A1, Ditch Transitions, Inverts, and Callouts.
6/20/03	3 Revised Inverts.

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

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 131+00 TO ℄ STA. 136+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.13 OF 350 SHEETS

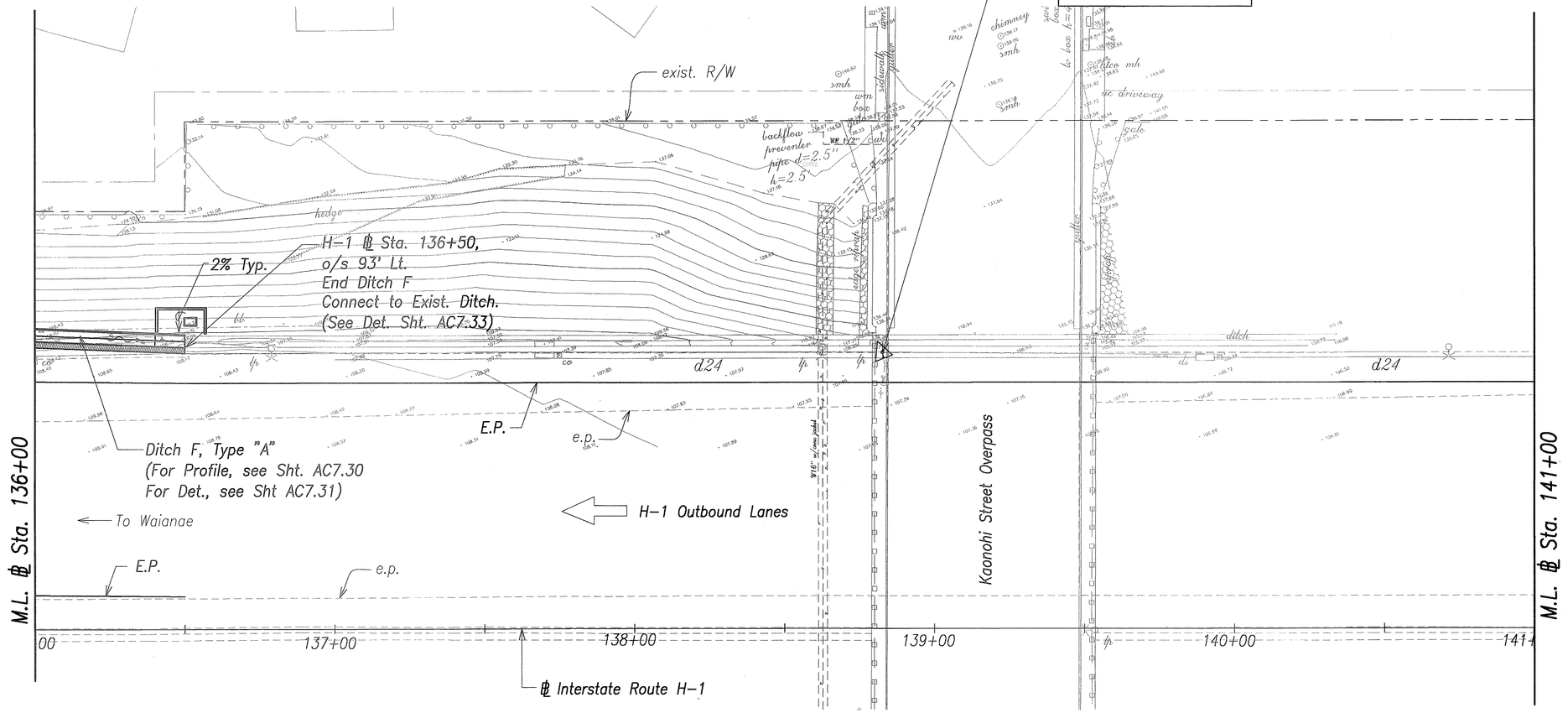
RMTC JOB NO.: 1-19369-0E

ADD. 124

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	125	816

Bench Mark
Sta. "Overpass"
("+")
Elev.=136.02
State Plane Coordinates
81860.57 N
519138.49 E

TRUE NORTH
SCALE: 1" = 20'



Note:

For Pavement Grades, see Pavement Grading and Jointing Plans.

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

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 136+00 TO ℄ STA. 141+00

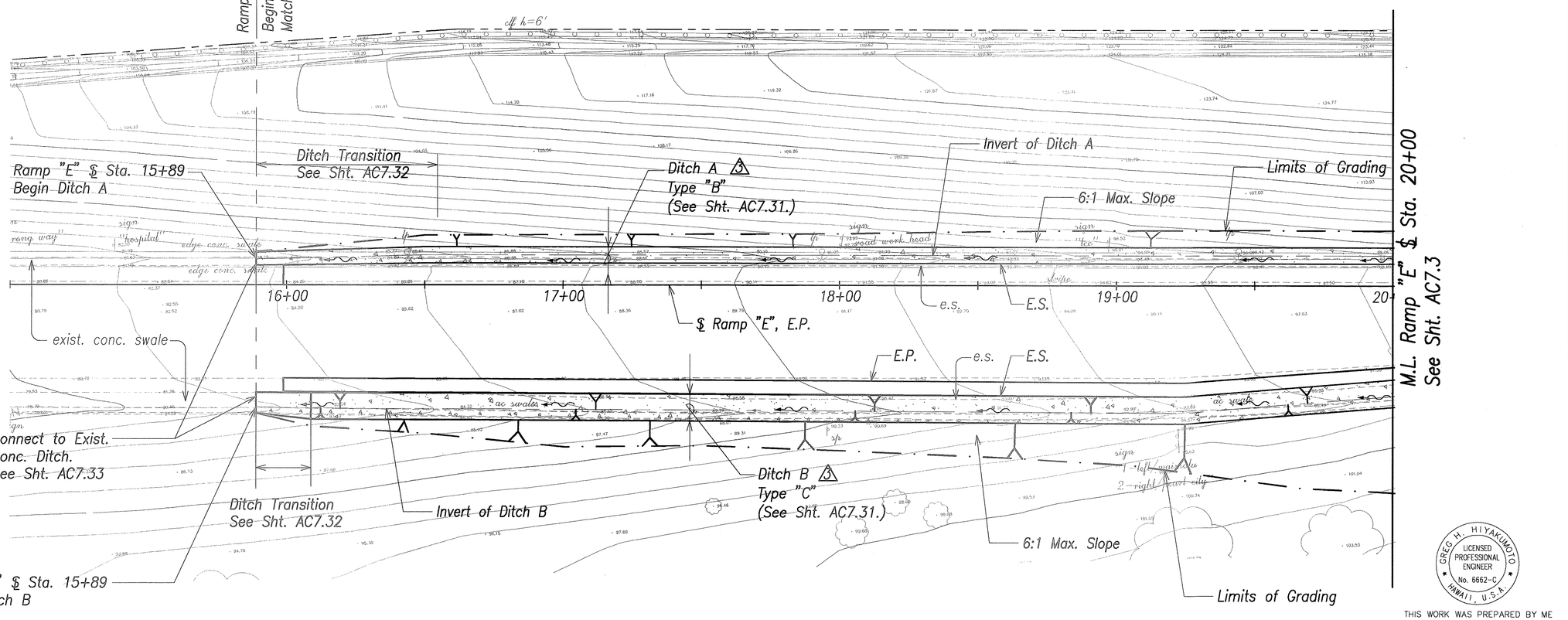
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.14 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E
K:\civil\3-02424\dwg\civil\dwg\Roadway Plan-14.dwg February 21, 2002 9:40am SueF

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 126	816

TRUE NORTH
SCALE: 1" = 20'



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

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
6/20/03	5 Revised Beginning of Ramp "E" Improvements and Ditch A & B Callouts.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

℄ STA. 15+99± TO ℄ STA. 20+00

RAMP "E"

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.15 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 126

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 127	816

Grading Quantities:

Quantities Shown for Permit Purposes Only

Area: 4.7 Acres
Excavation: 100 C.Y.
Embankment: 850 C.Y.

Legend

- Construction Parcel
- Limits of Grading
- 18 — New Contour
- 18 — Exist. Contour
- 13.15 — New Spot Elevation
- • 14.14 — Exist. Spot Elevation

SCALE: 1" = 20'

TRUE NORTH

64± LF 6" Drain @ S=7.7%

Limits of Grading

exist. "NO PARKING" sign and exist. "lane designation" sign

Drain Line "O"
COTG (State)
H-1 ℄ Sta. 111+16.6,
o/s 94' Lt.
Inv.=26.50 (6")
Inv.=22.00 (6")
(For Det., see Sht. AC7.37)

For Continuation, see Sht. AS6.1

SDMH L-1 (Type "E")
H-1 ℄ Sta. 111+75,
o/s 86.22' Lt.
Top=20.50
Inv.=17.50 (6")
Inv.=16.00 (12")
Inv.=15.50 (24")
(For Det., see State Std. Det. H-6)

SDMH L-2 (Type "E")
H-1 ℄ Sta. 111+84.23,
o/s 40.24' Lt.
Top=20.80
Inv.=14.80
(For Det., see State Std. Det. H-6)

Drain Line "AA"
Conn. to Column
24 Drain 14.66 LF 12"
26 PVC Drain @ S=2.2%
Inv.=16.29

Drain Line "L" (State)
47 LF 24" Drain @ S=1.5%

Maintain Exist. d6 Conn.

36 LF 24" Drain @ S=8.0%

Conn. to Exist. CB
H-1 ℄ Sta. 112+14.5±,
o/s 19.7'± Lt.
top=16.6±
Inv.=12.01 (6")
Inv.=11.92 (24")
inv.=7.0± (24" per plan)
(For Det., see Sht AW17.1)

exist. "The Bus" sign

exist. "NO PARKING" sign

exist. "SPEED LIMIT" sign

exist. R/W

Limits of Construction Parcel, Typ.

Waimalu Stream Channel (City)

Kaahele Street (City)

State / City

New Viaduct Footing, Typ.

New Viaduct Column, Typ.

COTG in Sidewalk
H-1 ℄ Sta. 112+74.2,
o/s 84.10' Lt.
Inv.=13.33

Drain Line "BB"
Conn. to Column Drain
64± LF 8" Drain
@ S=2.2%, Inv.=13.36

Limits of Grading

Conn. to Exist. CB
H-1 ℄ Sta. 112+84±,
o/s 33'± Lt.
top=16.56
Inv.=11.96 (8")
Inv.=6.4± (24" per plan)
(For Det., see Sht. AW17.1)

exist. "The Bus" sign

exist drain outlet
inv.=10.27± (18")

292°30'45" → 8.51'
(Tie to H-1 ℄ Sta. 113+00)

Limits of Grading

exist. drain outlet
inv.=9.82± (18")

H-1 ℄ Sta. 114+14.4±,
o/s 88.7'± Rt.
exist drain outlet
inv.=6.0± (54")

H-1 ℄ Sta. 114+19±,
82.7'± Rt.
exist. d54
top=12.93
inv.=7.3 (per plan)

Inlet Structure No. 2
H-1 ℄ Sta. 113+78.62,
o/s 46.47' Lt.
Construct over exist. d18
Top=12.97
Inv.=10.75 (d18)
(For Det., see Sht. AC7.36)

Limits of Grading

Column Outlet Structure No. 5
(For Detail, see Sht. AC7.39)

New R/W

291°24'54" 16 → 189.29'

Surface Flow ℄

exist. d18
top=12.55
inv.=10.94

13.35

50± LF Conc. Outlet Swale, Type B (For Det., see Sht. AC7.39)

164.30 LF 36" Drain @ S=0.5%

exist. lined ditch (to be removed)

Drain Line "M" (State)

Trench Drain
Top=12.40
Inv.=10.35

Trench Drain
Top=12.40
Inv.=10.56

exist. lined ditch

12.6

exist. d18
top=12.91
inv.=11.28

exist. d54

Drain Line "N" (State)
SDMH N-1 (Special)
H-1 ℄ Sta. 115+30, o/s 80.10'± Rt.
Construct Over exist. d54
Top=16.10
Inv.=8.8± (36"& 54")
(For Det., see Sht. AC7.34)
Construct CMU curtain wall three sides above top slab

16.50

17.10

10± LF Conc. Outlet Swale, Type A (For Det., see Sht. AC7.38)

GDI M-1 (Type "A2")
H-1 ℄ Sta. 115+30, o/s 84.2' Lt.
Top=16.1

D30
Inv.=10.12 (30")
Inv.=9.62 (36")
(For Det., see Sht. AW16.6)

Column Outlet Structure No. 6
(For Det., see Sht. AC7.39)

Exist. Lined Ditch to Be Removed

Trench Drain
Top=14.28
Inv.=11.96

Column Outlet Structure No. 1
(For Det., see Sht. AC7.38)

Trench Drain to Replace Exist. Conc. Ditch 418± LF
(For Det., see Sht. AW16.20)

M.L. ℄ Sta. 115+50

Interstate Route H-1

111+00 112+00 113+00 114+00 115+00

3+00 4+00 2+00 1+00

D6 G4 D8 d24 d18 d54 D30

14°37'15" 250.91'

24°23'53" 136.66'

Notes:

1. See H-1 Grading & Drainage Plans for Continuation.
2. For Underdrain System, see Sheet AC8.14.
3. See sheet AC8.14 for GRP slope protection at Kaahele St, near Bert2.

LEGEND FOR AS-BUILT POSTINGS

~~WWW~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Revised Grading; Deleted Invert.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

BELOW VIADUCT – 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

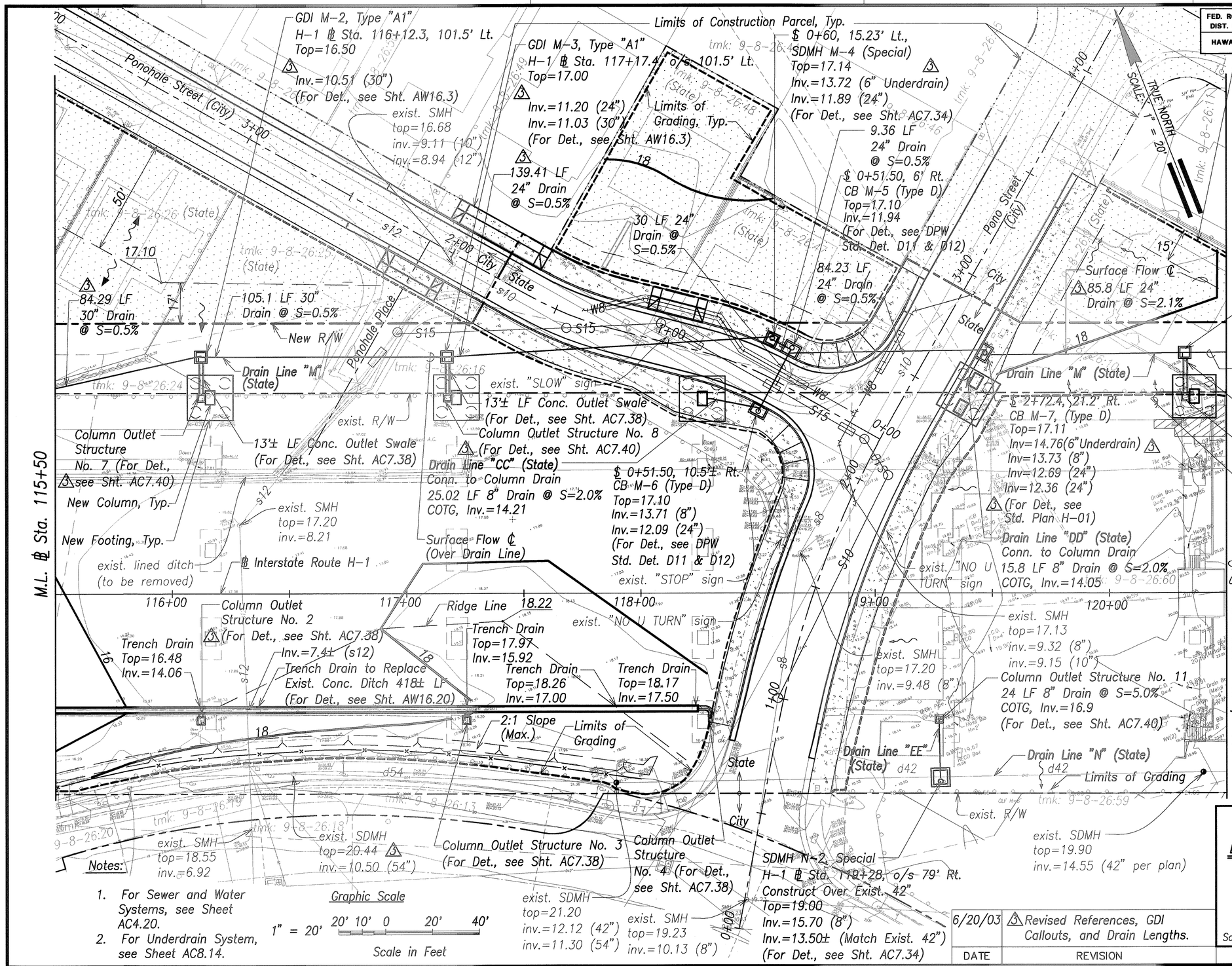
SHEET No. AC7.16 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

"AS-BUILT" ADD. 127

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 128	816



Limits of Grading

Legend

- Construction Parcel
- Limits of Grading
- 18 — New Contour
- 18 — Exist. Contour
- 13.15 — New Spot Elevation
- • 14.14 — Exist. Spot Elevation

APPROVED:

Chief, Wastewater Branch, DPP — 7/22/03 Date

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/16/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

Notes:

1. For Sewer and Water Systems, see Sheet AC4.20.
2. For Underdrain System, see Sheet AC8.14.

Graphic Scale

1" = 20'

20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	⚠3 Revised References, GDI Callouts, and Drain Lengths.

ORIGINAL DRAWING BY — SURVEY PLOTTED BY — DRAWN BY — TRACED BY — DESIGNED BY — QUANTITIES BY — CHECKED BY — DATE

NOTE BOOK — No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

BELOW VIADUCT – 2

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.17 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 128

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 129	816

Legend

- Construction Parcel
- Limits of Grading
- 18 — New Contour
- 18 — Exist. Contour
- 13.15 — New Spot Elevation
- • 14.14 — Exist. Spot Elevation

TRUE NORTH
SCALE: 1" = 20'

GDI M-9
Type "A1"
(3) H-1 ℄ Sta. 121+37.5, o/s 103.5' Lt.
Top=22.50
Inv.=17.44 (24")
(For Det., see Sht. AW16.3)

Limits of Construction Parcel, Typ.

exist. cb

exist. "SPEED LIMIT" sign

exist. lined ditch (to remain)

exist. SDMH
top=65.00
inv.=60.00 (36")
inv.=56.00 (36")

Ponohana Loop (City)

exist. SDMH (City)
top=22.19
inv.=17.29

exist. "PONOHANA PL" and "PONOHANA LP" street name signs

Column Outlet Structure No. 10 (For Det., see Sht. AC7.40)

2:1 Slope (Max.)

Surface Flow ℄

18.80

15'± LF Conc. Outlet Swale (For Det., see Sht. AC7.38)

Drain Line "Q" (State)
20.75± LF 24" Drain
@ S=4.22%

SDMH Q-1 (Type B)
H-1 ℄ Sta. 122+50, o/s 101.50' Lt.
Top=24.50
Inv.=20.12
(3) (For Det., see Std. Plan H-95)

exist. cart. berm
top=19.93 (3)
inv.=2.00

Drain Line "Q" (State)
49'± LF 24" Drain
@ S=4.22%

New R/W

64.5

72.5±

exist. R/W

exist. SDMH
top=26.5±
inv.=19.72 (per plan)

exist. SDMH
top=28.00
inv.=22.20 (36")
inv.=20.05 (42")

Drain Line "GG" (State)
Conn. to Column Drain
26.46 LF 8" PVC Drain
@ S=2% COTG, Inv.=23.58

Conn. to Exist. Conc. Ditch (Replace Exist. d24 Conn.)
Inv.=22.18 (D24)

SDMH N-5 (Special)
H-1 ℄ Sta. 122+79.50, o/s 74.80'± Lt.
Top=30.50
Inv.=22.74
(For Det., see Sht. AC7.34)

2:1 Slope(Max.)

New Viaduct Column, Typ.

(3) 105.25 LF 24" Drain @ S=2.8%

New Viaduct Footing, Typ.

℄ Interstate Route H-1

M.L. ℄ Sta. 120+50

121+00 122+00 123+00

Drain Line "N" (State)
291°20'40", 15.26'

Column Outlet Structure No. 12. (For Det., see Sht. AC7.40)

Ponohana Place (State) (to remain)

21°20'40", 20.3'

d42

exist. R/W

Drain Line "N" (State)
14.9 LF 36" Drain
@ S=1.0%

SDMH N-4 (Special)
H-1 ℄ Sta. 122+65, o/s 72' Lt.
Top=29.50
Inv.=22.59
(For Det., see Sht. AC7.34)

Backfill with (3) Class "D" Concrete. (See Sht. AS4.13)

Limits of Grading, Typ.

40.6 LF 36" Drain
@ S=1.0%

SDMH P-1 (Special)
H-1 ℄ Sta. 122+29.25, o/s 102.0' Lt.
Construct Over Exist. d24
Top=23.80
Inv.=19.24
(For Det., see Sht. AC7.34)

Drain Line "P" (State)
37.7 LF 24" Drain
@ S=0.8%

SDMH P-2 (Special)
H-1 ℄ Sta. 122+34, o/s 64.7' Lt.
Top=28.00
Inv.=20.07 (24")
Inv.=19.54 (24")
(For Det., see Sht. AC7.34)

M.L. See Right

Drain Line "FF" (State)
36.60 LF 8" PVC Drain
@ S=1.3% COTG, Inv.=22.43
(3) (For COTG Box Det., see Sht. AW16.25)

exist. SDMH
H-1 ℄ Sta. 121+61±, o/s 74.9'± Rt.
New Inv.=18.80 (8")
top=25.60
inv.=16.90 (42")
inv.=15.95 (42")
(For Det., see Sht. AW17.2)

SDMH N-3 (Special)
H-1 ℄ Sta. 122+25, o/s 73.40' Lt.
Top=28.50
(3) Inv.=23.05 (8")
Inv.=22.18 (36")
Inv.=19.99 (42")
(For Det., see Sht. AC7.34)

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

M.L. See Left

Limits of Grading, Typ.

tmk: 9-8-26:73 (State)

tmk: 9-8-26:69 (State)

GREG M. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	(3) Revised References, GDI Callouts, Invert and Drain Lengths; Added Backfill Callout and New Contours.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE AND GRADING PLAN

BELOW VIADUCT – 3

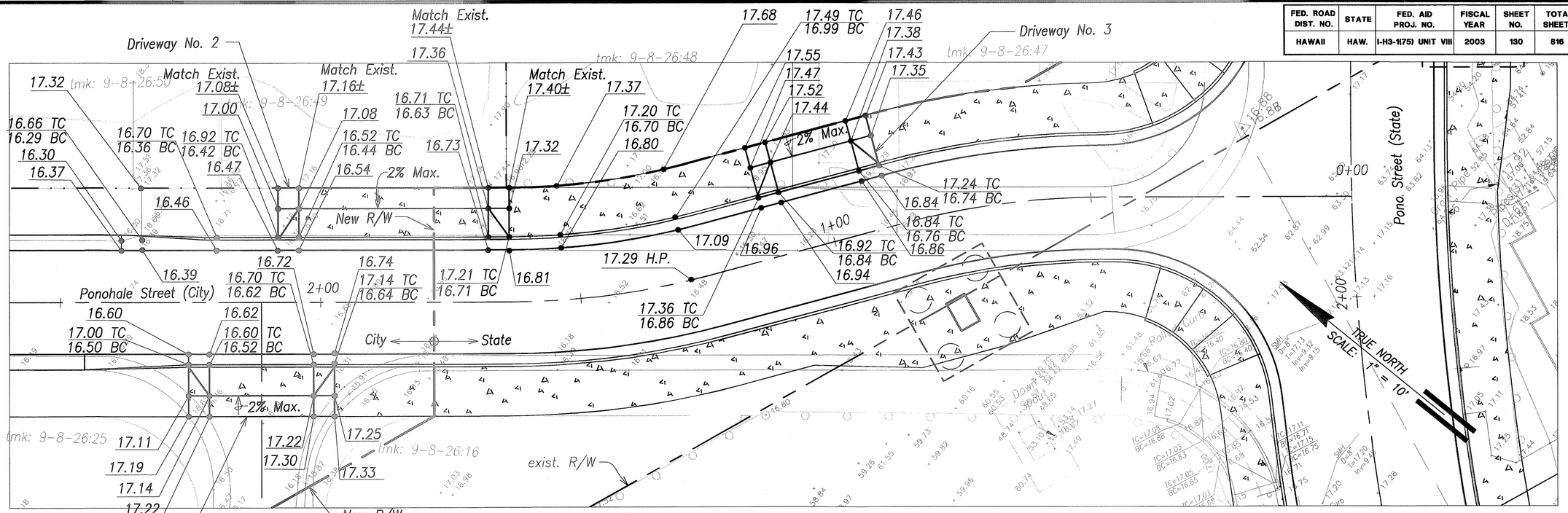
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC7.18 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 129

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	130	816

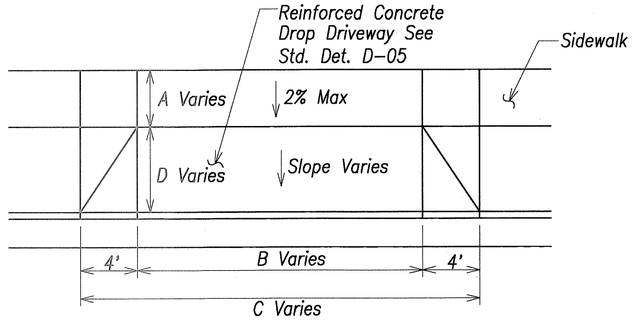


Plan – Ponohale Street

Scale: 1" = 10'

Legend

18	Exist. Contour
13.15	New Spot Elevation
• 14.14	Exist. Spot Elevation



Driveway Detail

Scale: Not To Scale

	Driveway No.		
	1	2	3
A	4.0'	4.0'	4.0'
B	20.0'	36.3'±	16.0'
C	28.0'	44.3'±	24.0'
D	6.0'	6.0'	6.0'

Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILED GRADING PLAN

PONO & PONOHALE STREETS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

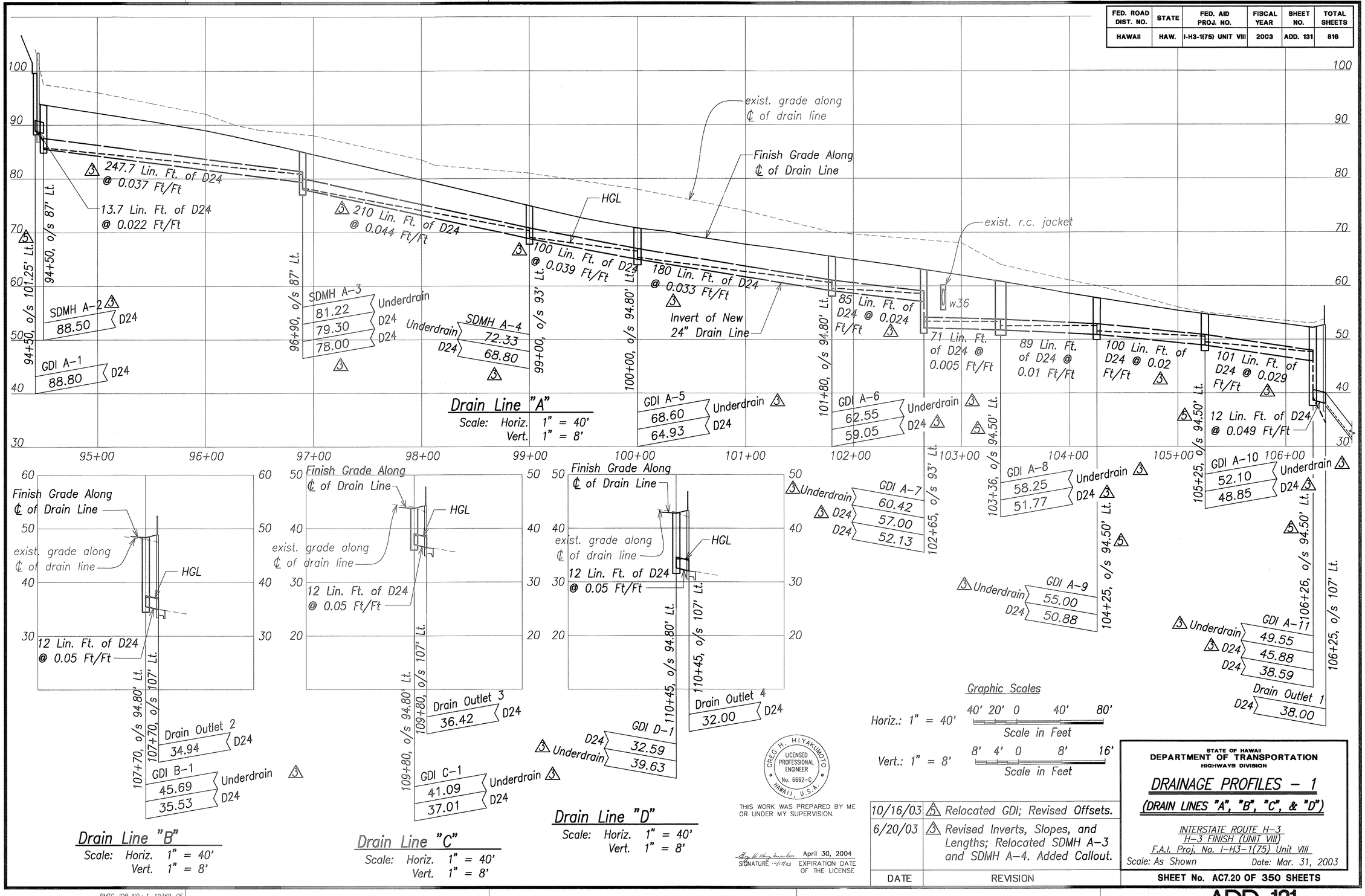
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC7.19 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 131	816



Drain Line "A"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'

Drain Line "B"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'

Drain Line "C"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'

Drain Line "D"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'

Graphic Scales

Horiz.: 1" = 40' — 40' 20' 0 40' 80' — Scale in Feet

Vert.: 1" = 8' — 8' 4' 0 8' 16' — Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/16/03	5 Relocated GDI; Revised Offsets.
6/20/03	3 Revised Inverts, Slopes, and Lengths; Relocated SDMH A-3 and SDMH A-4. Added Callout.

ORIGINAL PLANS — SURVEY PLOTTED BY — DRAWN BY — TRACED BY — DESIGNED BY — QUANTITIES BY — CHECKED BY — DATE — NOTE BOOK — No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES – 1

(DRAIN LINES "A", "B", "C", & "D")

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

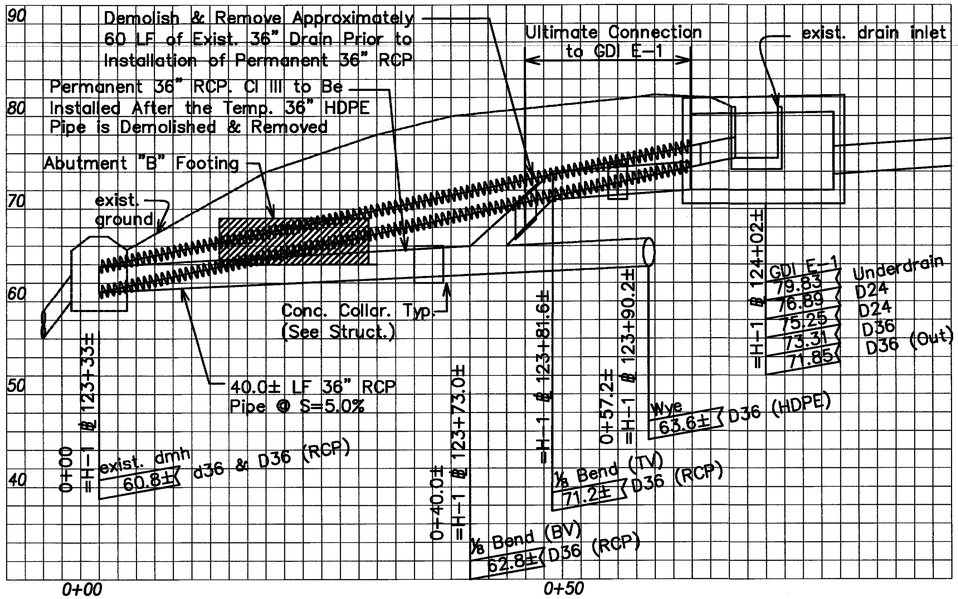
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC7.20 OF 350 SHEETS

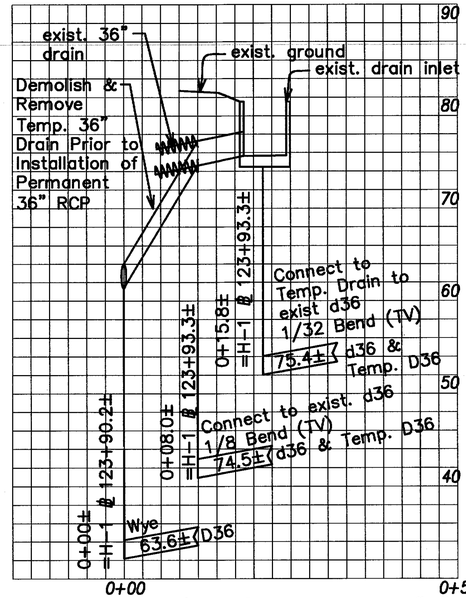
RMTC JOB NO.: 1-19369-OE

ADD. 131

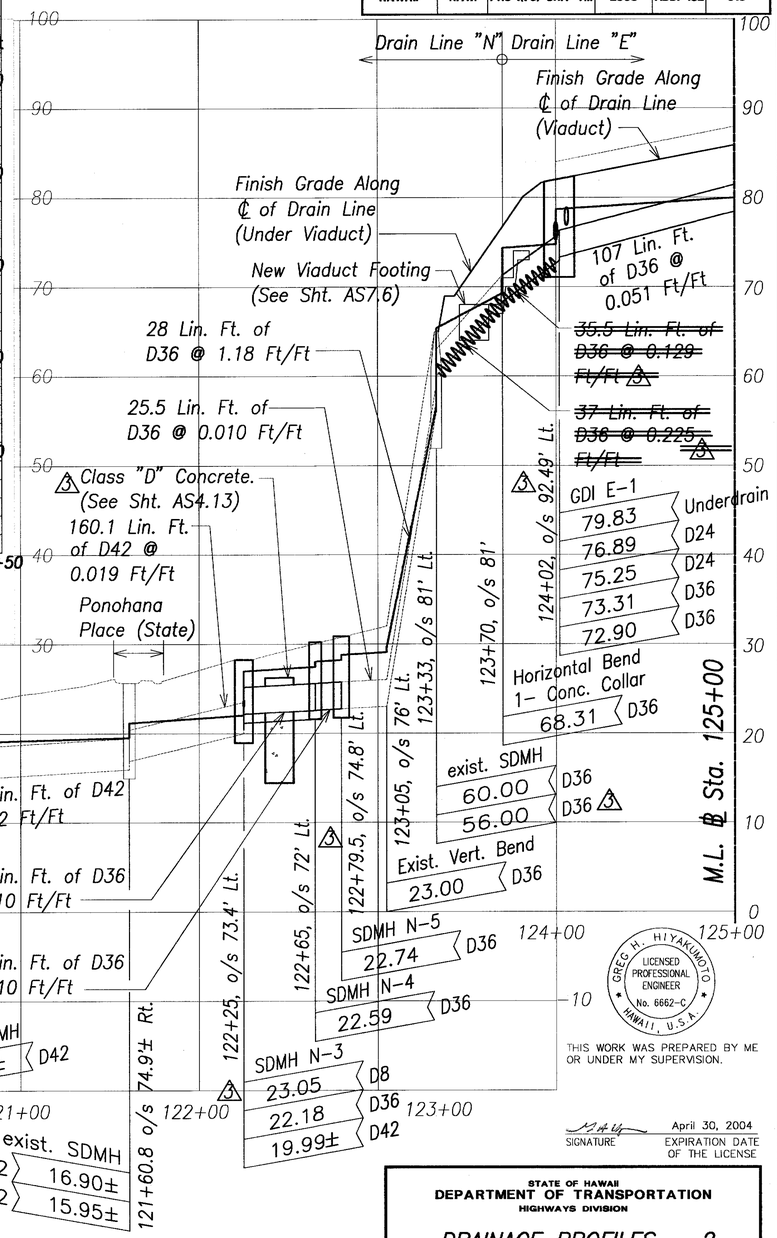
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 132	816



Revised Drain @ Abutment "B"
Not to Scale



Revised Drain (HDPE) @ Abutment "B"
Not to Scale



Graphic Scales

Horiz.: 1" = 40' — 40' 20' 0 40' 80' — Scale in Feet

Vert.: 1" = 8' — 8' 4' 0 8' 16' — Scale in Feet

LEGEND FOR AS-BUILT POSTINGS

~~AAAAA~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

Drain Line "E" & "N"
Scale: Horiz. 1" = 40'
Vert. 1" = 8'

DATE	REVISION
6/20/03	3 Added Invert and Concrete Callout; Revised Drain Offset, Lengths, Invert and Slopes

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES – 2

(DRAIN LINES "E" & "N")

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown — Date: Mar. 31, 2003

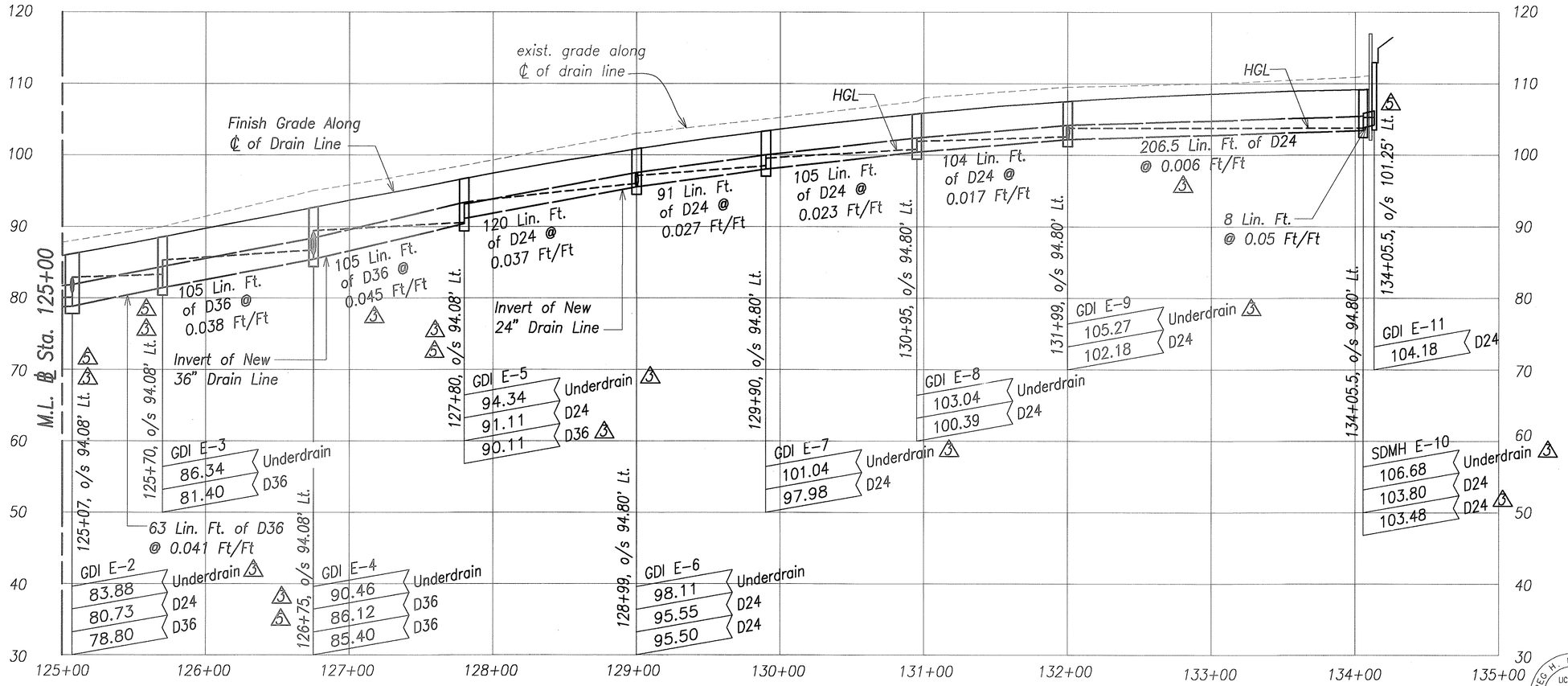
SHEET No. AC7.21 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

"AS-BUILT" ADD. 132

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 133	816



Drain Line "E" & "N"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE 4/30/04 EXPIRATION DATE OF THE LICENSE

ORIGINAL PLANS — SURVEY PLOTTED BY — DRAWN BY — TRACED BY — DESIGNED BY — QUANTITIES BY — CHECKED BY — DATE
NOTE BOOK — No.

Graphic Scales

Horiz.: 1" = 40' — 40' 20' 0 40' 80' — Scale in Feet

Vert.: 1" = 8' — 8' 4' 0 8' 16' — Scale in Feet

DATE	REVISION
10/16/03	5 Relocated GDI; Revised Offsets.
6/20/03	5 Revised Inverts, Slopes, and Offsets.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES – 3

(DRAIN LINE "E")

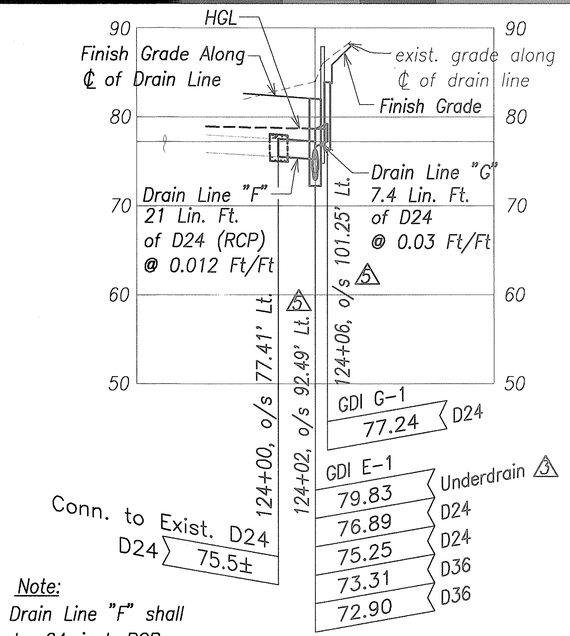
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC7.22 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 133

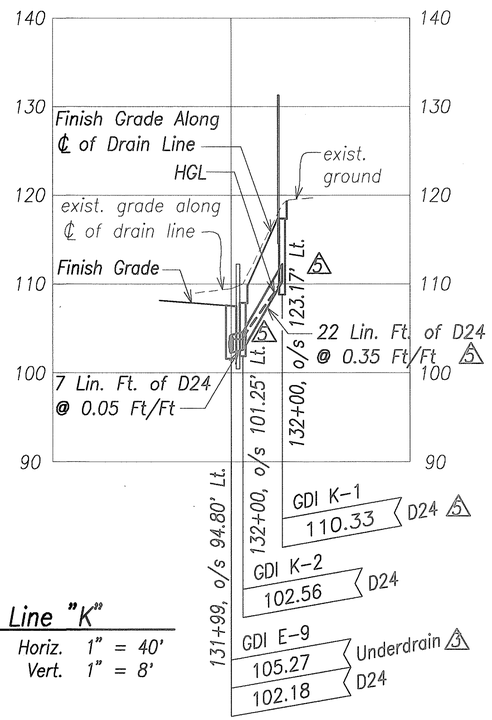
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 134	816



Note:
Drain Line "F" shall be 24-inch RCP.

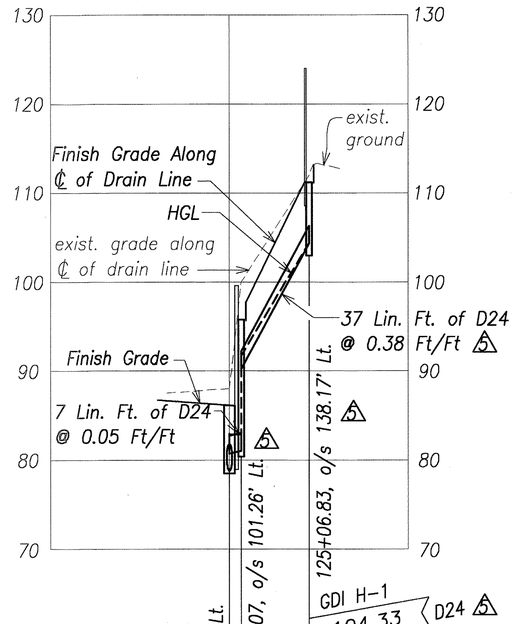
Drain Line "F & G"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'



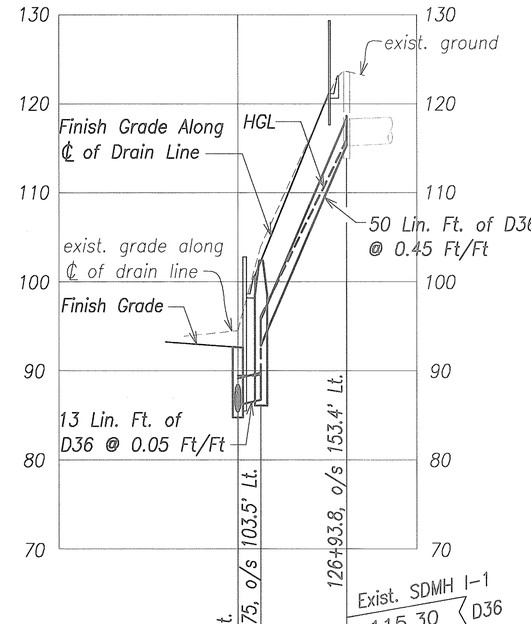
Drain Line "K"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'



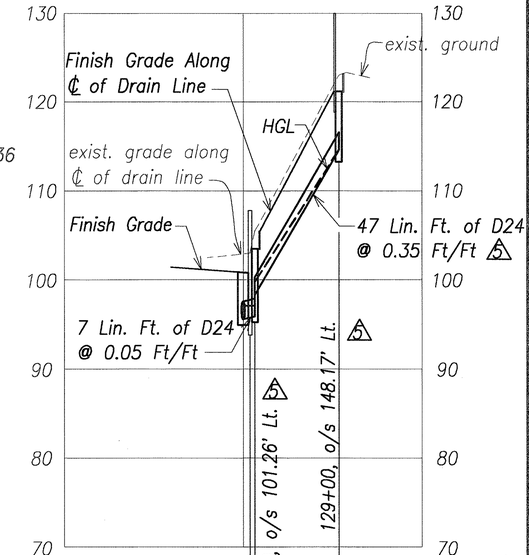
Drain Line "H"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'



Drain Line "I"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'



Drain Line "J"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE 4/30/04 EXPIRATION DATE OF THE LICENSE

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

Graphic Scales

Horiz.: 1" = 40'
40' 20' 0 40' 80'
Scale in Feet

Vert.: 1" = 8'
8' 4' 0 8' 16'
Scale in Feet

DATE	REVISION
10/16/03	5 Relocated GDI; Revised Inverts and Offsets.
6/20/03	3 Added Inverts for Underdrain.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES – 4
(DRAIN LINES "F", "G", "H", "I", "J", & "K")

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

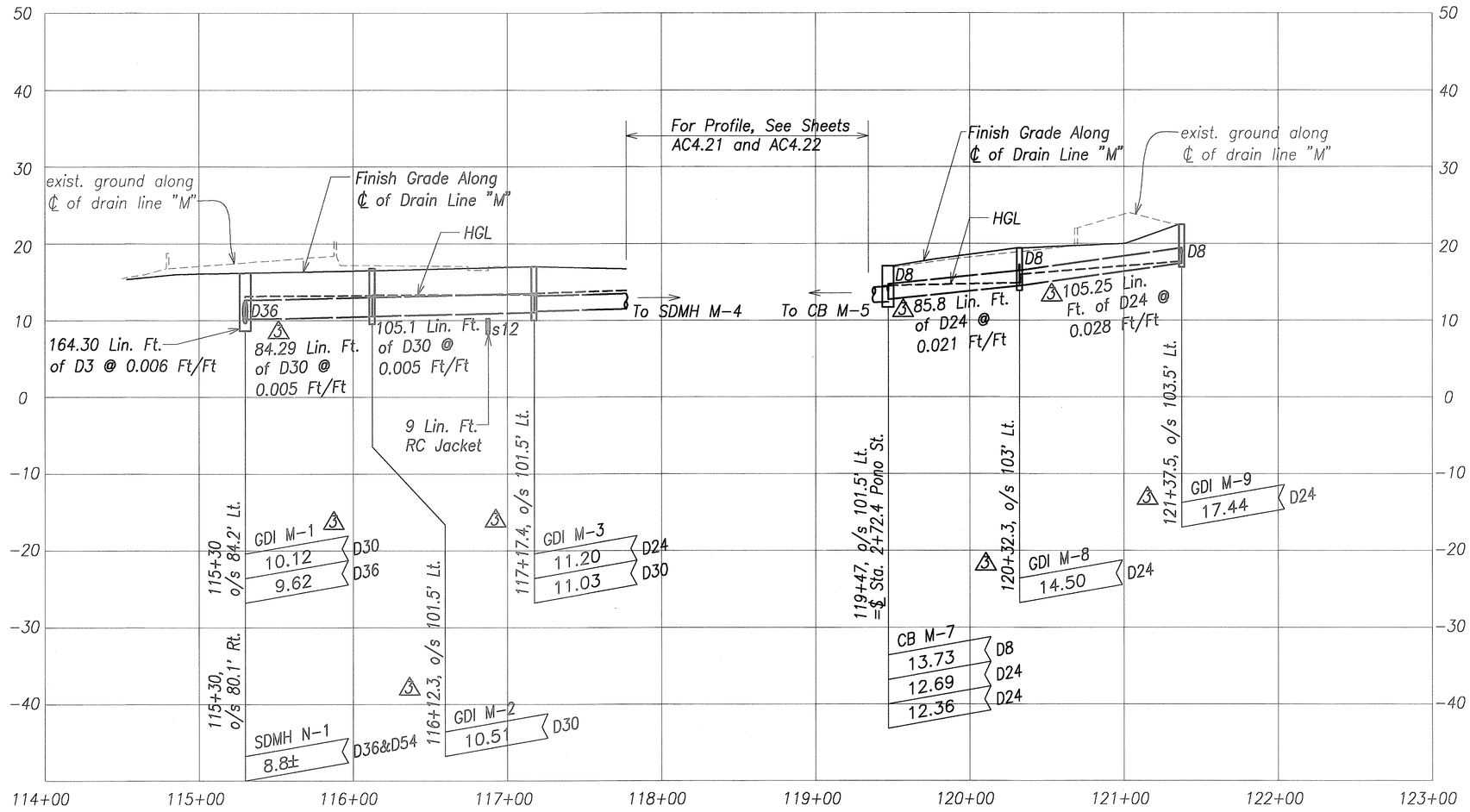
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC7.23 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 134

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 135	816



Drain Line "M"

Scale: Horiz. 1" = 40'
Vert. 1" = 8'

APPROVED:

Chief, Wastewater Branch, DPP — 7/22/03 Date

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

Graphic Scales

Horiz.: 1" = 40' — 40' 20' 0 40' 80' Scale in Feet

Vert.: 1" = 8' — 8' 4' 0 8' 16' Scale in Feet

DATE	REVISION
6/20/03	3 Revised GDI Callouts and Drain Lengths.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES – 5

(DRAIN LINE "M")

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

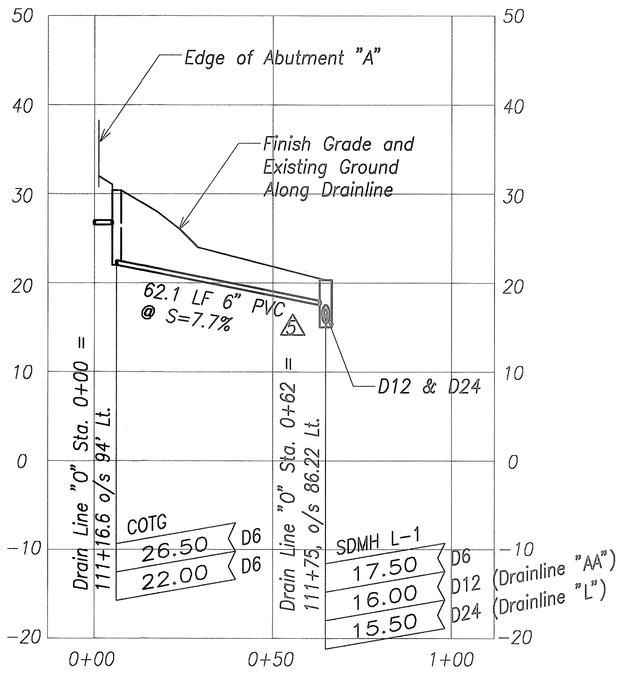
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC7.24 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

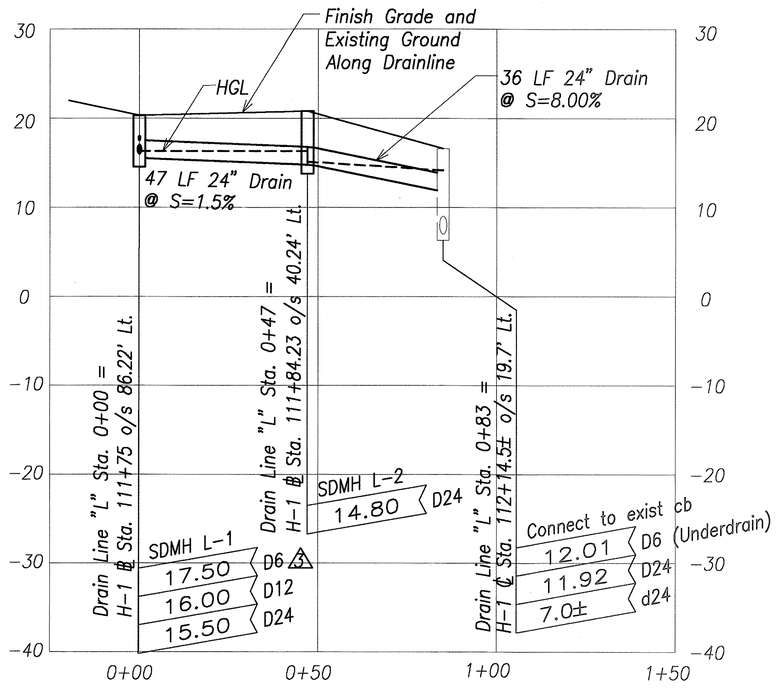
ADD. 135

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 136	816



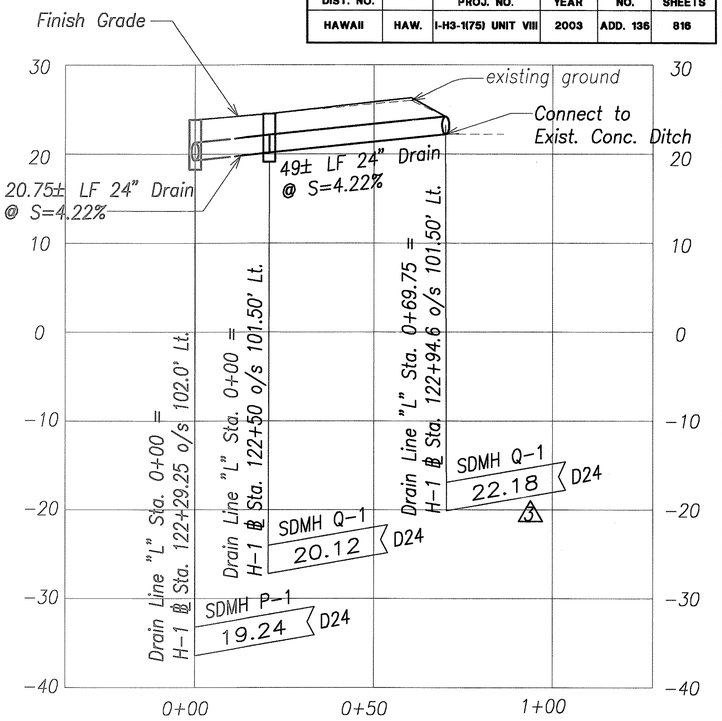
Drain Line "O"

Scale: Horiz. 1" = 20'
Vert. 1" = 8' 3



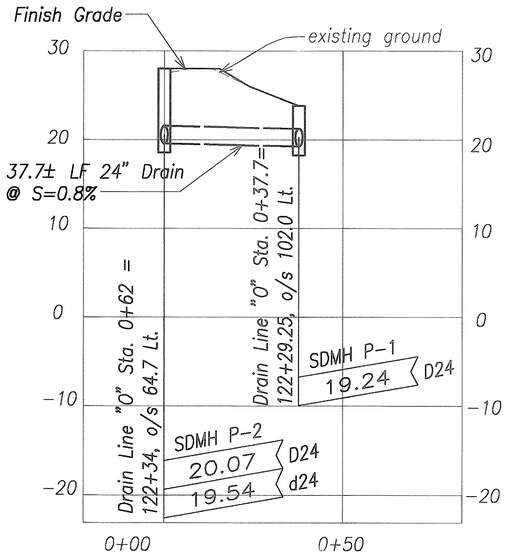
Drain Line "L"

Scale: Horiz. 1" = 20'
Vert. 1" = 8' 3



Drain Line "Q"

Scale: Horiz. 1" = 20'
Vert. 1" = 8' 3



Drain Line "P"

Scale: Horiz. 1" = 20'
Vert. 1" = 8' 3

Graphic Scales

Horiz.: 1" = 20' 3
20' 10' 0 20' 40'
Scale in Feet

Vert.: 1" = 8'
8' 4' 0 8' 16'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised Drain Line "O" text.
6/20/03	3 Revised texts and elevation.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILES – 6

(DRAIN LINES "L", "O", "P", & "Q")

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

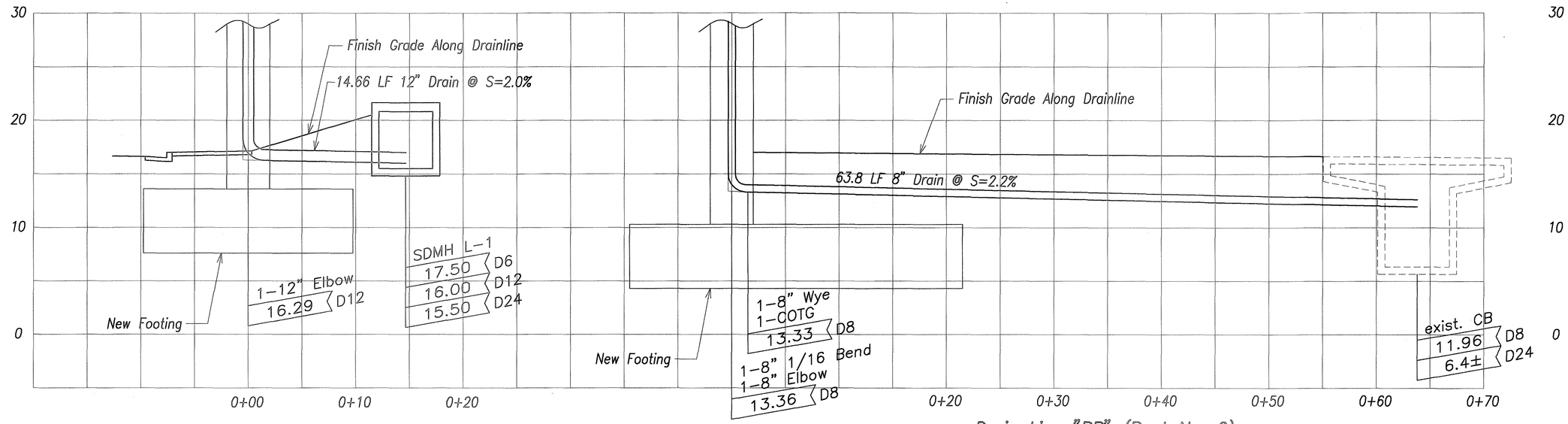
SHEET No. AC7.25 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

ADD. 136

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 137	816

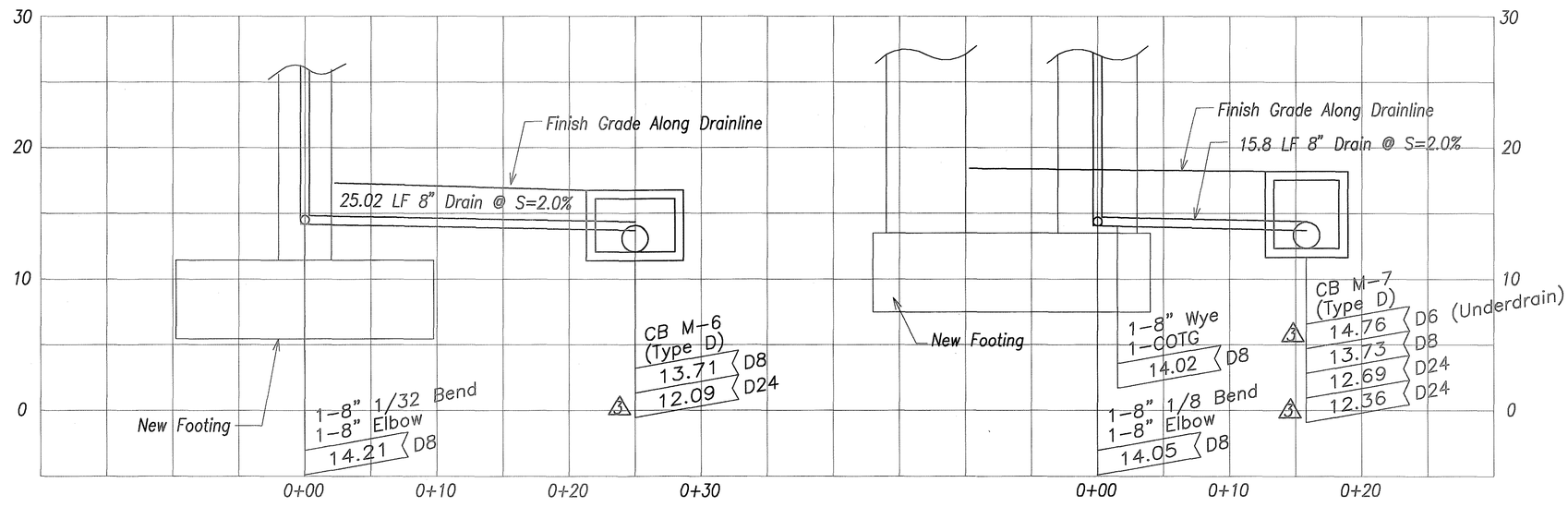


Drain Line "AA" (Bent No. 1)

Scale: Hor: 1" = 5'
Vert: 1" = 5'

Drain Line "BB" (Bent No. 2)

Scale: Hor: 1" = 5'
Vert: 1" = 5'



Drain Line "CC" (Bent No. 7)

Scale: Hor: 1" = 5'
Vert: 1" = 5'

Drain Line "DD" (Bent No. 8)

Scale: Hor: 1" = 5'
Vert: 1" = 5'

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'
Scale in Feet

1" = 5' 5' 2.5' 0 5' 10'
Scale in Feet

DATE	REVISION
6/20/03	3 Added and Revised Inverts.

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILE – 7

(DRAIN LINES "AA", "BB", "CC", & "DD")

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

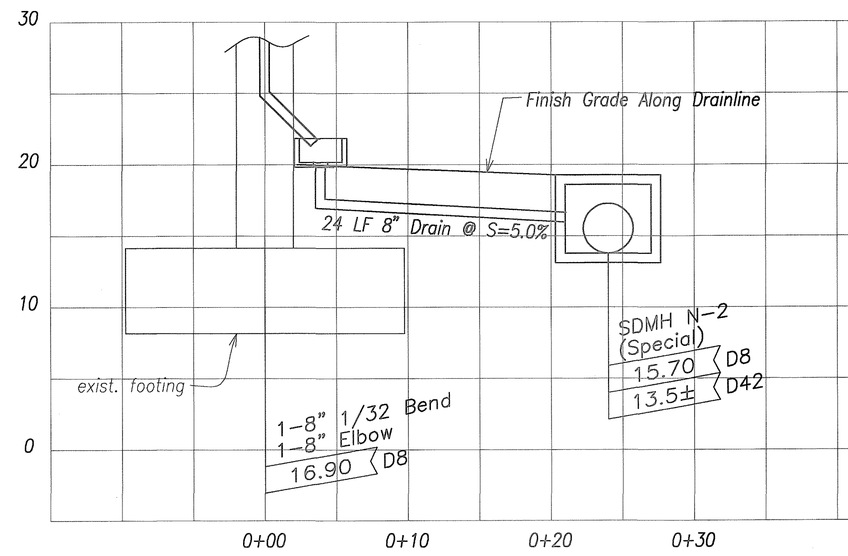
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC7.26 OF 350 SHEETS

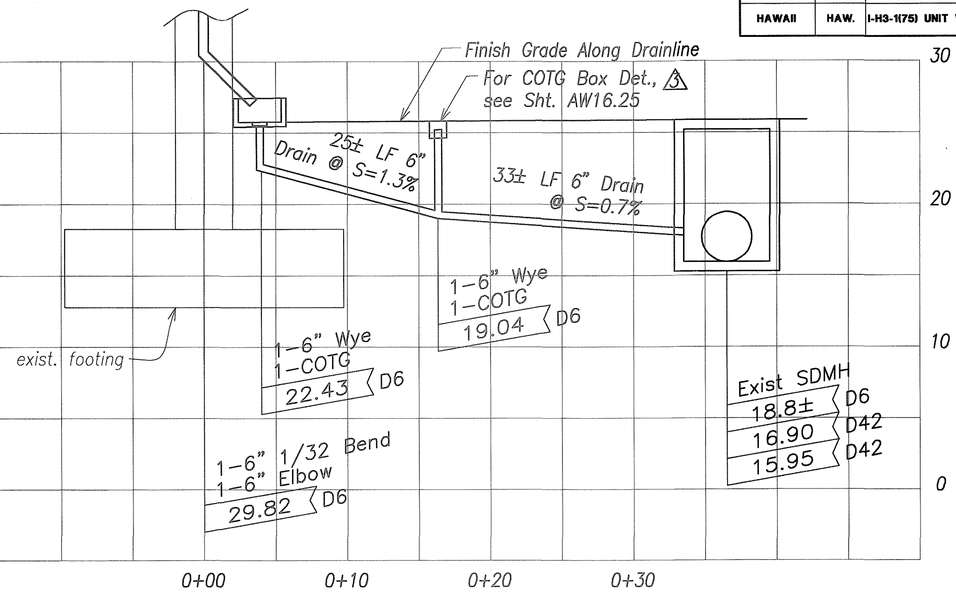
RMTC JOB NO.: 1-19369-0E

ADD. 137

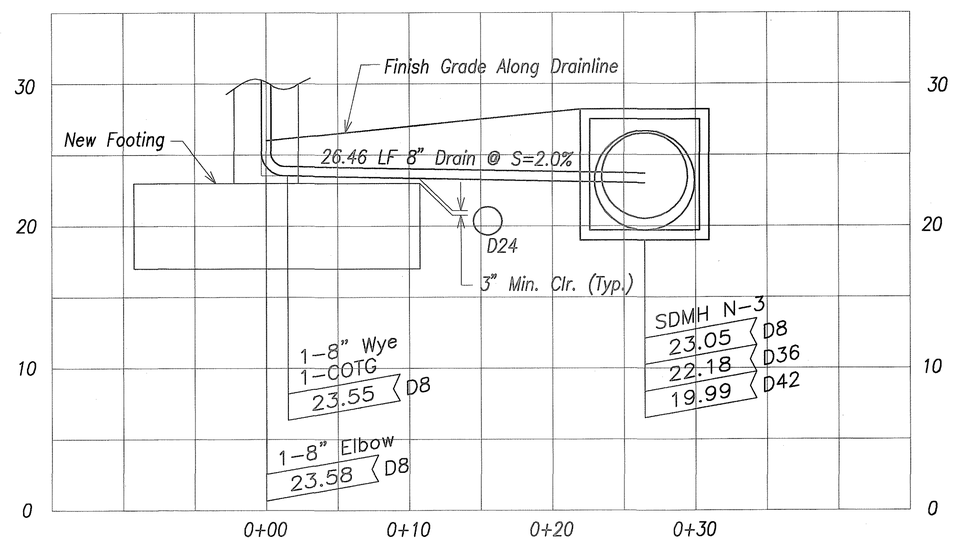
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 138	816



Drain Line "EE" (Exist. Bent No. 9)
Scale: Hor: 1" = 5'
Vert: 1" = 5'



Drain Line "FF" (Exist. Bent No. 10)
Scale: Hor: 1" = 5'
Vert: 1" = 5'



Drain Line "GG" (Bent No. 11)
Scale: Hor: 1" = 5'
Vert: 1" = 5'

Graphic Scale
1" = 5' 5' 2.5' 0 5' 10'
1" = 5' 5' 2.5' 0 5' 10'
Scale in Feet

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 7/1/03 April 30, 2004 EXPIRATION DATE OF THE LICENSE

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

DATE	REVISION
6/20/03	3 Added COTG Box Detail Callout.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILE – 8
(DRAIN LINES "EE", "FF", & "GG")

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

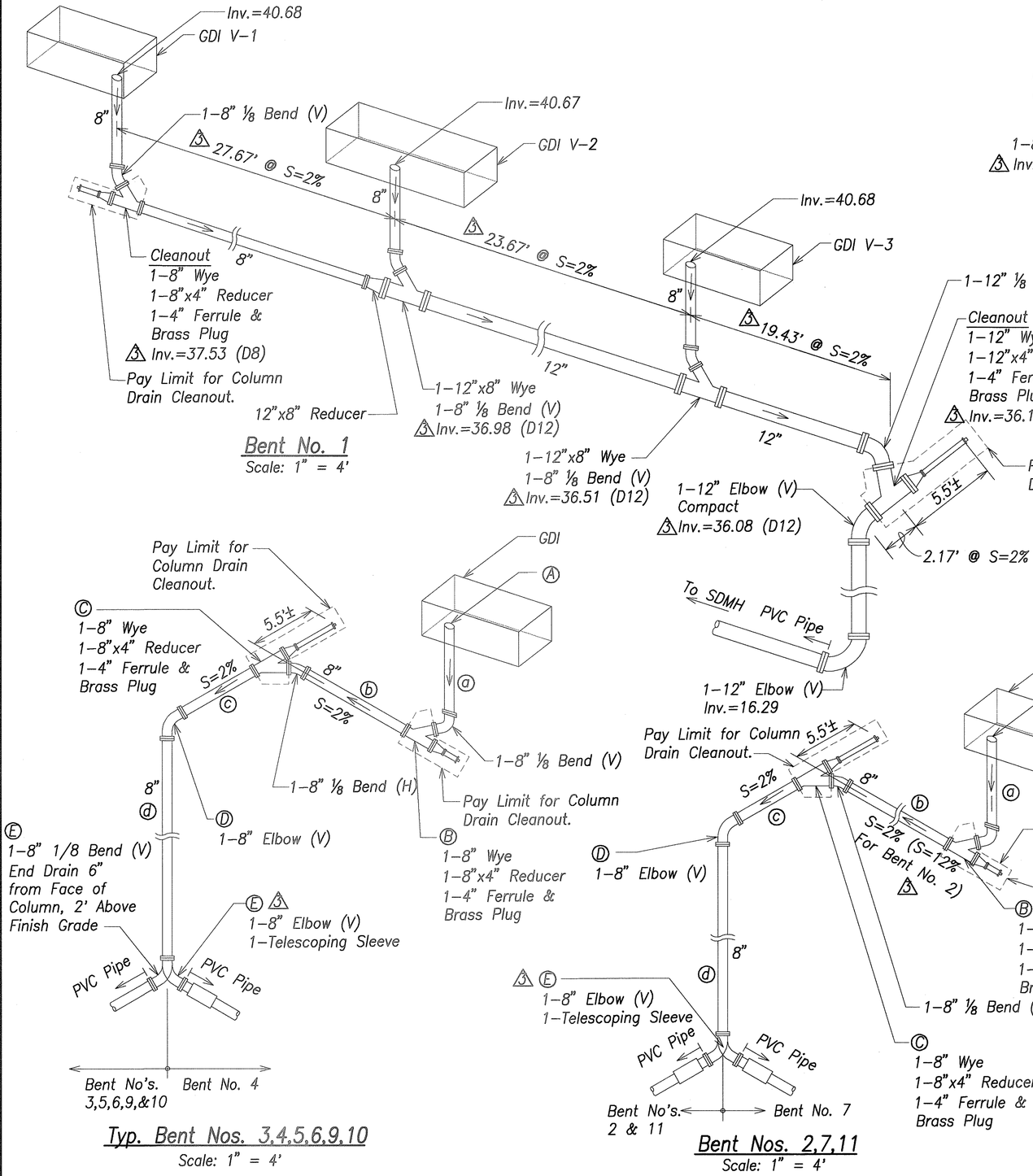
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC7.27 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 138

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 139	816



Bent No.	Invert A	B	C	D	E	Length (Ft.) a	b	c	d
* 2	41.97	37.46 (D8)	34.06 (D8)	34.00 (D8)	13.36 (D8)	4.51	28.39	3.18	20.64
3	44.23	41.48 (D8)	41.01 (D8)	39.69 (D8)	18.44 (D8)	2.75	23.73	9.42	21.25
4	47.19	43.68 (D8)	43.21 (D8)	43.03 (D8)	21.43 (D8)	3.51	23.42	9.42	21.60
5	51.06	47.56 (D8)	47.09 (D8)	46.90 (D8)	22.35 (D8)	3.50	23.46	9.42	24.55
6	55.08	52.01 (D8)	51.63 (D8)	51.44 (D8)	22.77 (D8)	3.07	23.86	9.42	28.67
* 7	59.09	55.60 (D8)	55.17 (D8)	54.97 (D8)	14.21 (D8)	3.49	21.36	10.17	40.76
9	67.12	64.17 (D8)	63.70 (D8)	62.97 (D8)	25.84 (D8)	2.95	23.44	9.42	37.13
10	71.23	67.71 (D8)	67.24 (D8)	67.05 (D8)	27.86 (D8)	3.52	23.72	9.42	39.19
* 11	75.27	71.77 (D8)	71.29 (D8)	71.10 (D8)	23.58 (D8)	3.50	23.84	9.42	47.52

Notes:

1. All Ductile Iron Pipes and Fittings Unless Otherwise Shown
2. * All PVC Pipes and Fittings After Exiting Column
3. For Telescoping Sleeve details, See Sht. AS14.10.

Graphic Scale

1" = 4' 4' 2' 0 4' 8'

Scale in Feet

DATE	REVISION
6/20/03	Revised Inverts, Lengths, Slope and Bend Callout; Added Telescoping Sleeve.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 7/1/03 April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SCHEMATIC DIAGRAMS

(DRAINAGE SYSTEM ALONG VIADUCT)

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=4' Date: Mar. 31, 2003

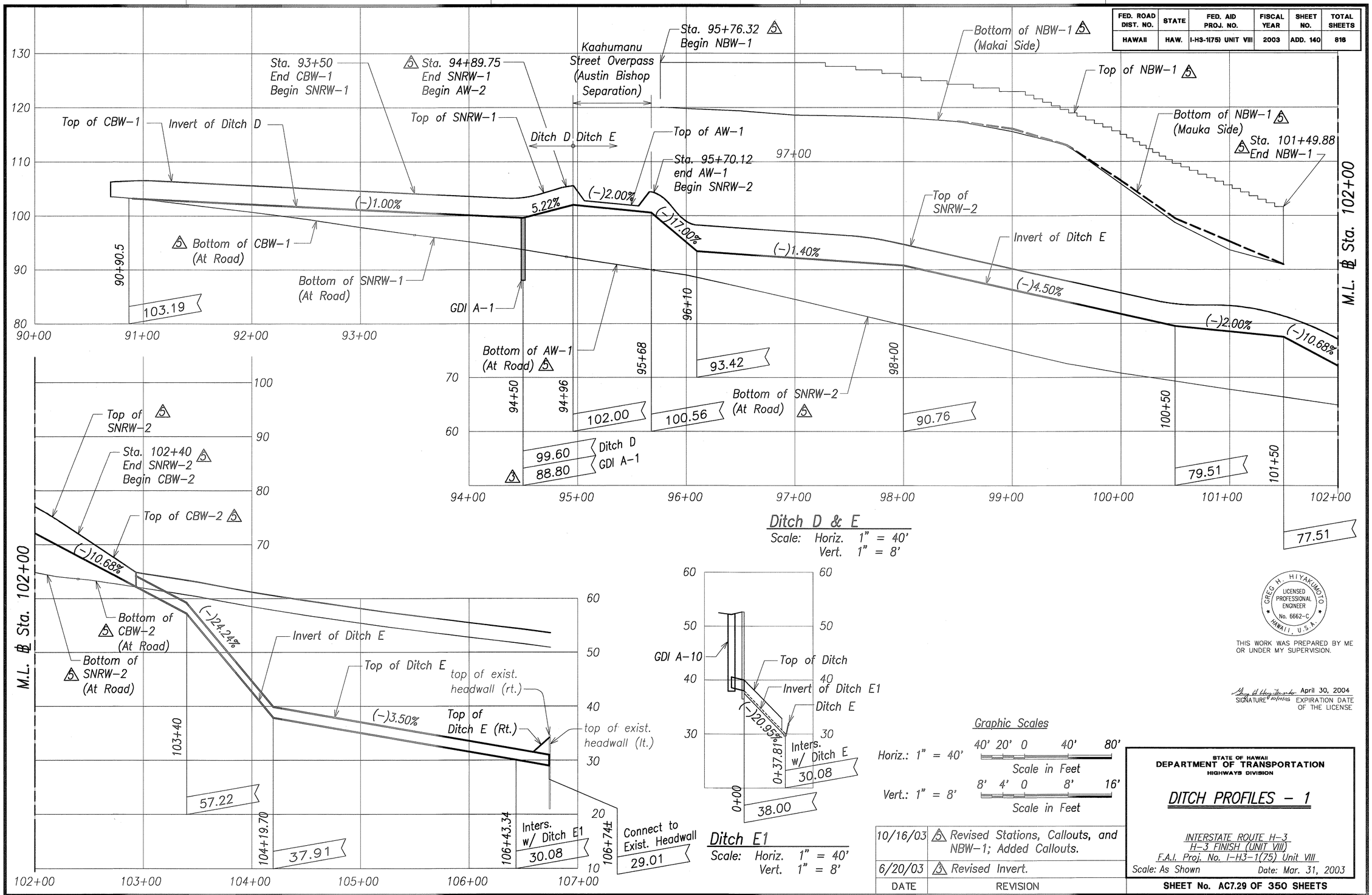
SHEET No. AC7.28 OF 350 SHEETS

ORIGINAL PLANS — SHEET PLOTTED BY ____ DATE
NOTE BOOK — SHEET DRAWN BY ____
No. ____ TRACED BY ____
DESIGNED BY ____
QUANTITIES BY ____
CHECKED BY ____

RMTC JOB NO.: 1-19369-0E

ADD. 139

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 140	816



GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE.

Graphic Scales

Horiz.: 1" = 40' — 40' 20' 0 40' 80' — Scale in Feet

Vert.: 1" = 8' — 8' 4' 0 8' 16' — Scale in Feet

DATE	REVISION
10/16/03	5 Revised Stations, Callouts, and NBW–1; Added Callouts.
6/20/03	5 Revised Invert.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DITCH PROFILES – 1

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

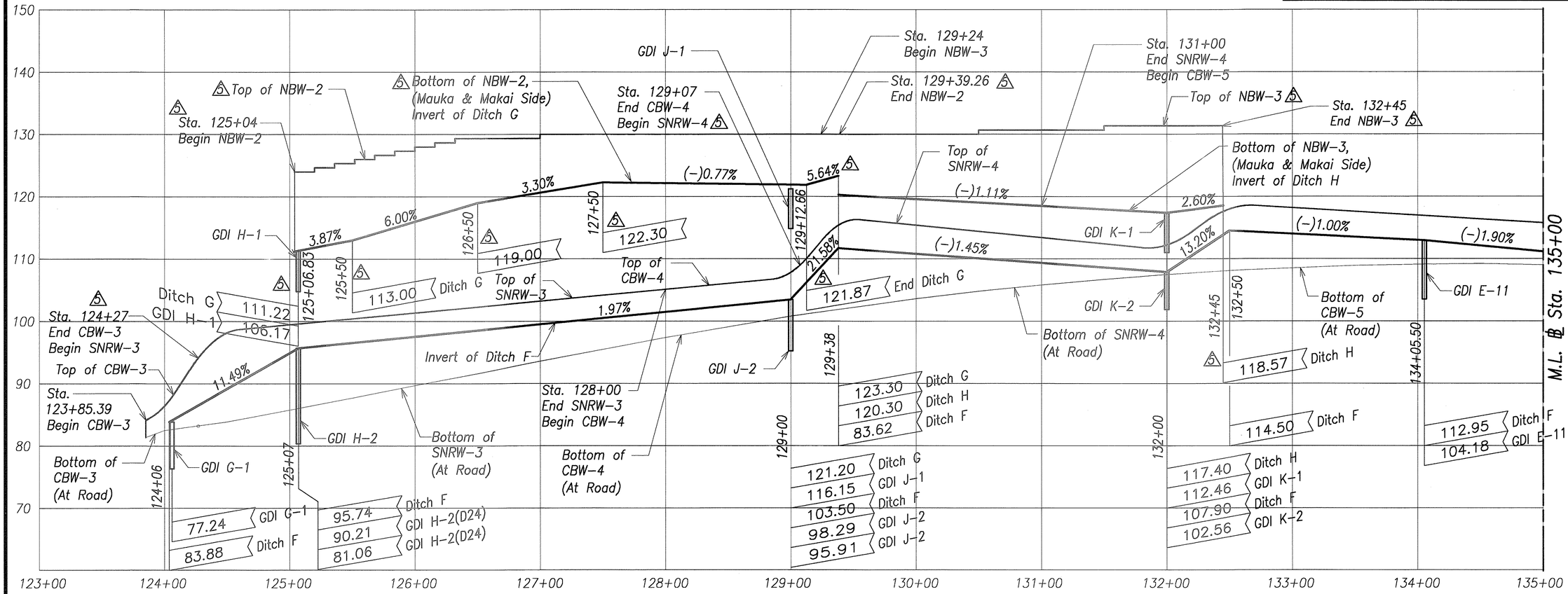
SHEET No. AC7.29 OF 350 SHEETS

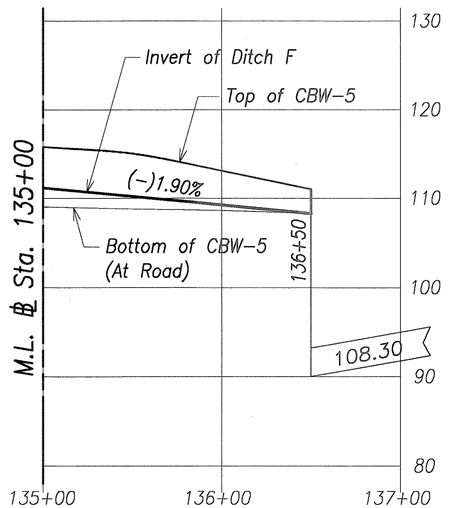
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

RMTC JOB NO.: 1–19369–OE

ADD. 140

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 141	816





Ditch F, G, & H

Scale: Horiz. 1" = 40'
Vert. 1" = 8'

Graphic Scales

Horiz.: 1" = 40' 40' 20' 0 40' 80' Scale in Feet

Vert.: 1" = 8' 8' 4' 0 8' 16' Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 4/11/03 April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/16/03	5 Revised Profile, NBW–2 & NBW–3

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DITCH PROFILES – 2

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

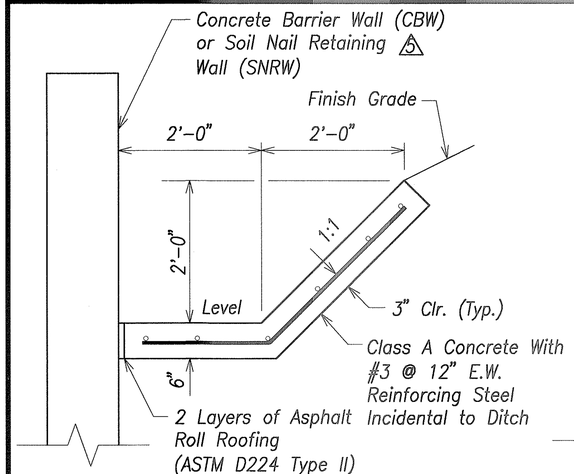
SHEET No. AC7.30 OF 350 SHEETS

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

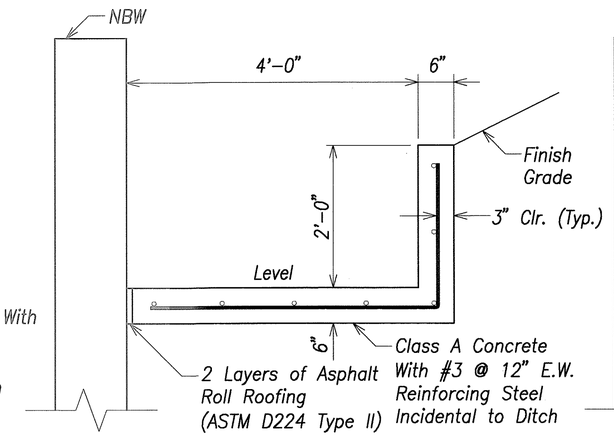
RMTC JOB NO.: 1–19369–0E

ADD. 141

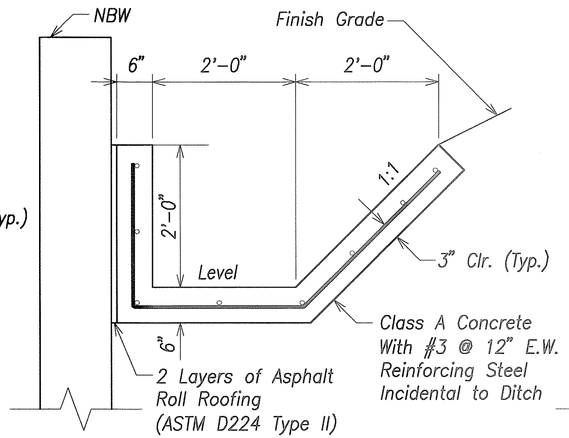
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 142	816



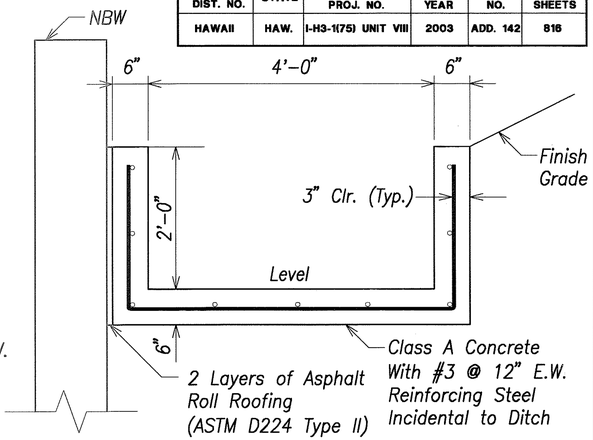
5 Type "A"
Scale: 1" = 1'-0"



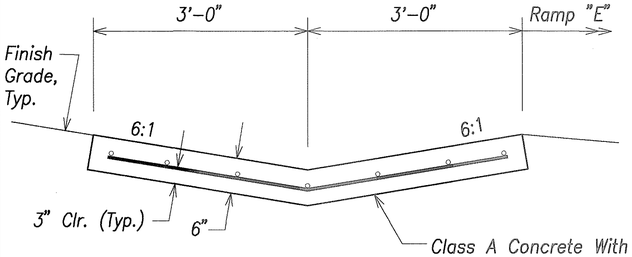
Type "A-1" 5
Scale: 1" = 1'-0"



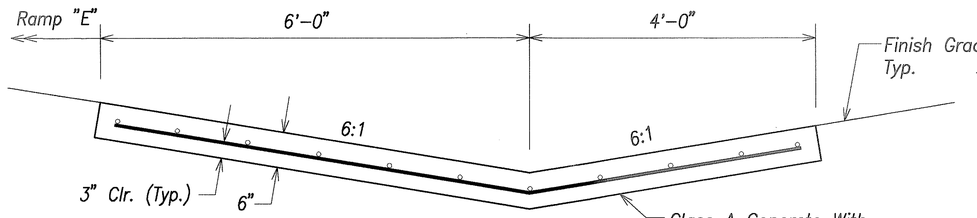
5 Type "A-2" 5
Scale: 1" = 1'-0"



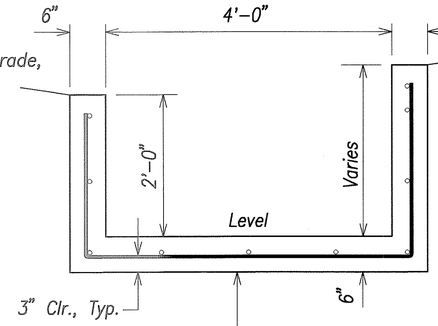
Type "A-3" 5
Scale: 1" = 1'-0"



5 Type "B"
Scale: 1" = 1'-0"

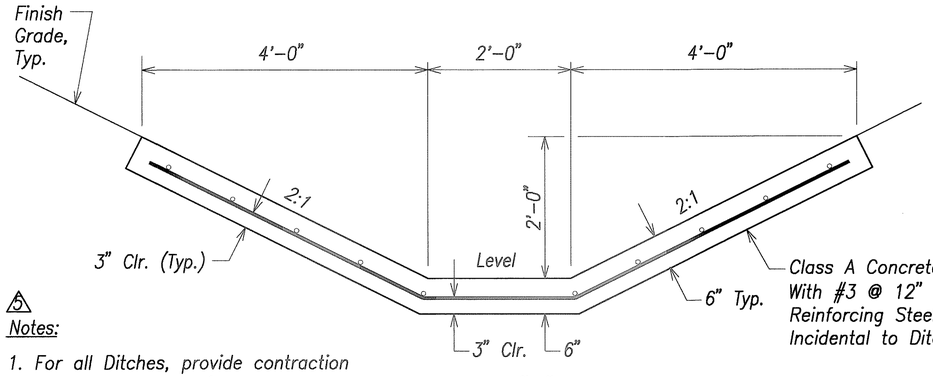


5 Type "C"
Scale: 1" = 1'-0"

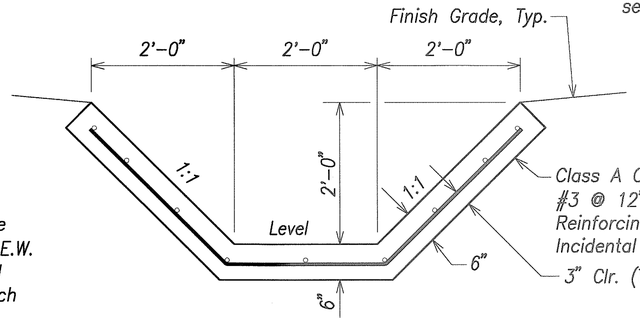


Note:
For Connection to Exist. 3-162" Drain Headwall, see Sht. AW16.24 5

5 Type "G" End Section At Connection To Exist. 3-162" Drain Headwall
Scale: 1" = 1'-0"



5 Type "D"
Scale: 1" = 1'-0"



5 Type "F"
Scale: 1" = 1'-0"

Notes:

1. For all Ditches, provide contraction joint every 15 ft. (For Det., see State Std. Det B-01, Chamfer not required at bottom of Ditch).
2. Any grooving of the joints shall be done within 3 hours after concrete is poured.

Graphic Scale
1" = 1' 1' 0.5' 0 1' 2'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised Callout, Type "D" Notes and Revised Type "A-1" Detail. Added Type "A-2" and Type "A-3" Detail.
6/20/03	5 Revised Reinforcing Steel.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DITCH DETAILS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=1' Date: Mar. 31, 2003

SHEET No. AC7.31 OF 350 SHEETS

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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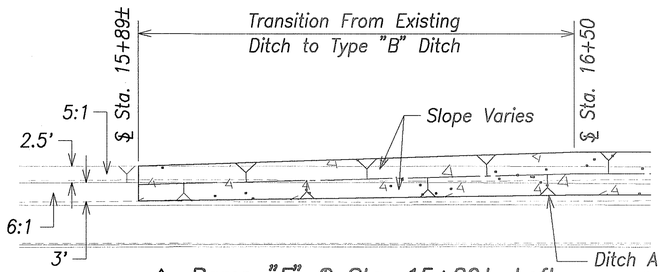
SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

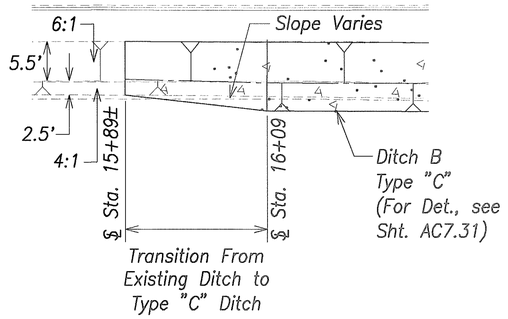
RMTC JOB NO.: 1-19369-0E

ADD. 142

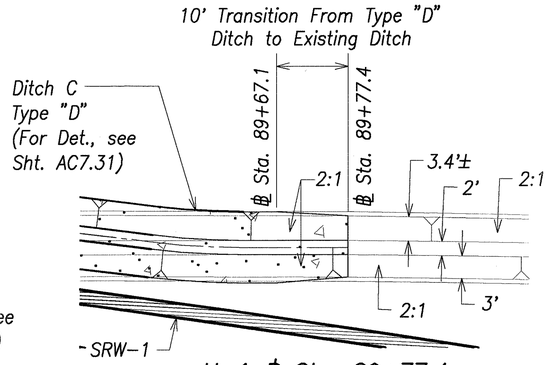
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 143	816



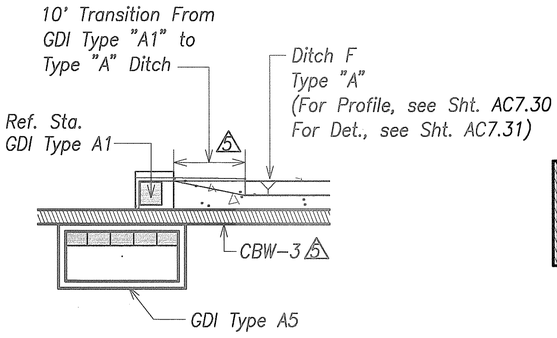
△5 Ramp "E" ℄ Sta. 15+89± Left
Scale: 1" = 10'



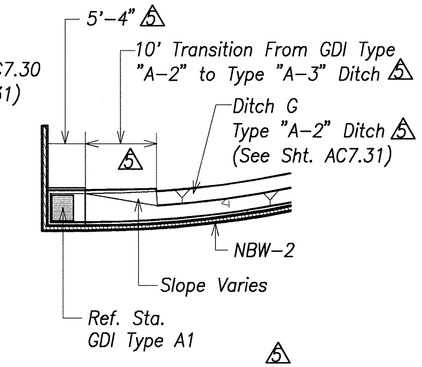
△5 Ramp "E" ℄ Sta. 15+89± Right
Scale: 1" = 10'



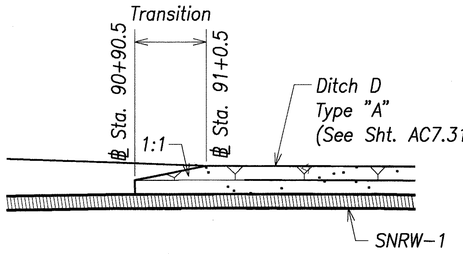
H-1 ℔ Sta. 89+77.4
Scale: 1" = 10'



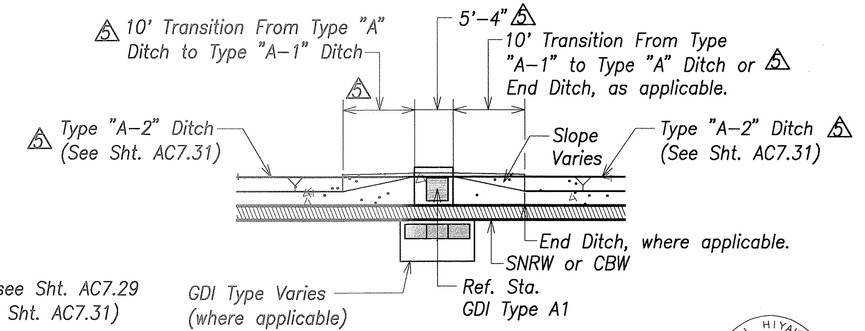
H-1 ℔ Sta. 124+06
Scale: 1" = 10'



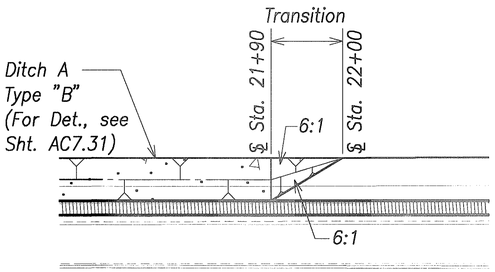
△5 H-1 ℔ 125+06.83, o/s 138.17' Lt.
Scale: 1" = 10'



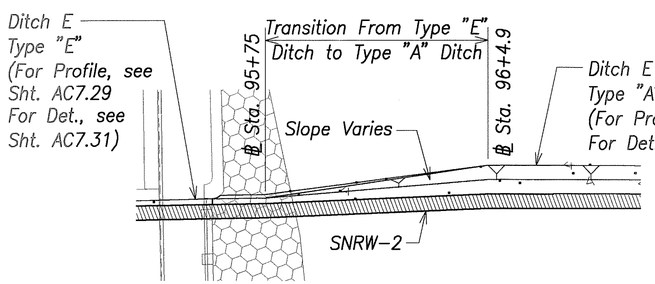
H-1 ℔ Sta. 90+90.5
Scale: 1" = 10'



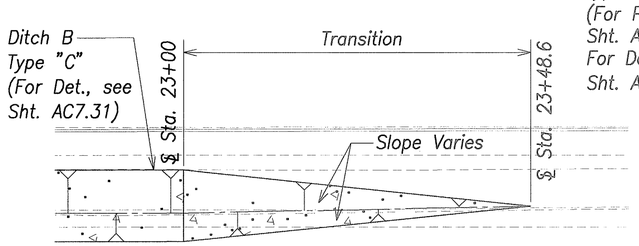
H-1 ℔ Sta. 94+50, 125+07,
129+00, 132+00, & 134+05.5
Scale: 1" = 10'



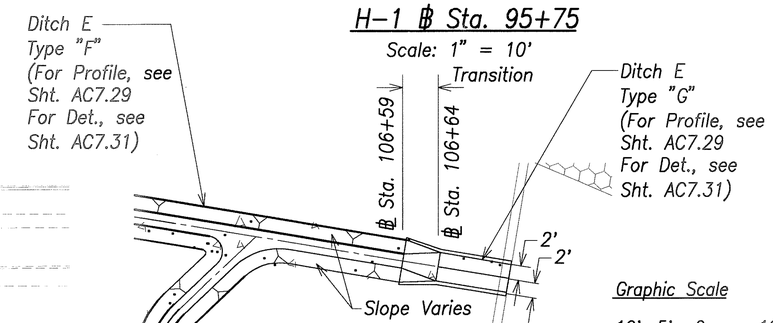
Ramp "E" ℄ Sta. 22+00 Left
Scale: 1" = 10'



H-1 ℔ Sta. 95+75
Scale: 1" = 10'



Ramp "E" ℄ Sta. 23+48.6 Right
Scale: 1" = 10'



H-1 ℔ Sta. 106+64
Scale: 1" = 10'

Graphic Scale
1" = 10'
10' 5' 0 10' 20'
Scale in Feet

DATE	REVISION
10/16/03	△5 Revised GDI Type A1, Callouts, and Ditch Transition.
6/20/03	△3 Revised Ramp "E" ℄ Sta. 15+89 Left and Right.

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

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE [illegible] April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DITCH TRANSITION DETAILS

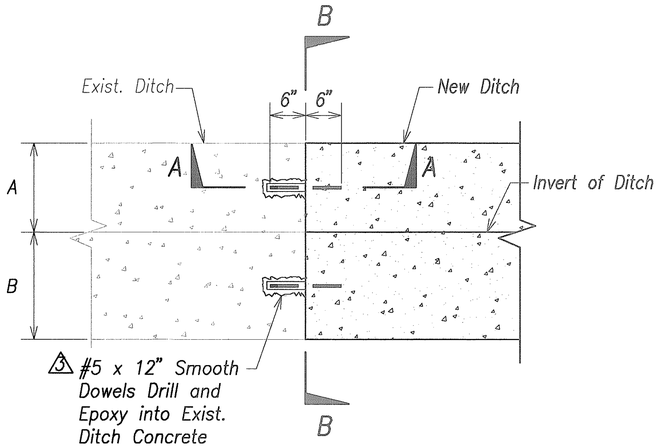
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC7.32 OF 350 SHEETS

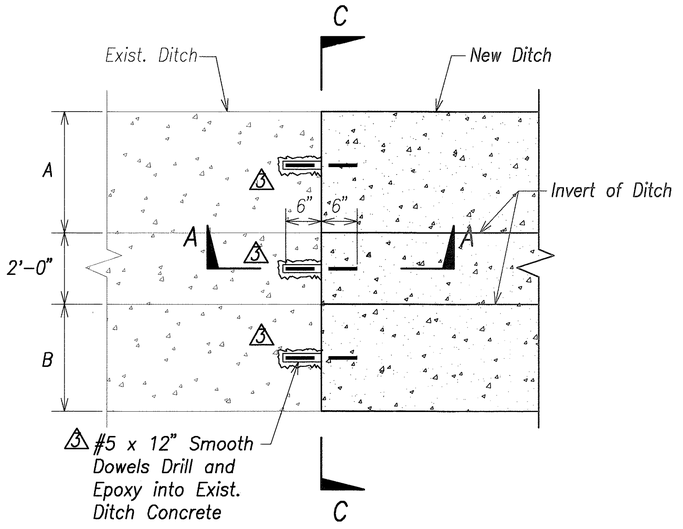
RMTC JOB NO.: 1-19369-OE

ADD. 143

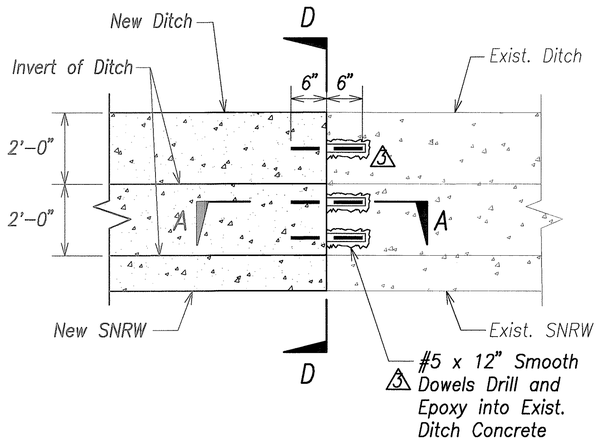
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 144	816



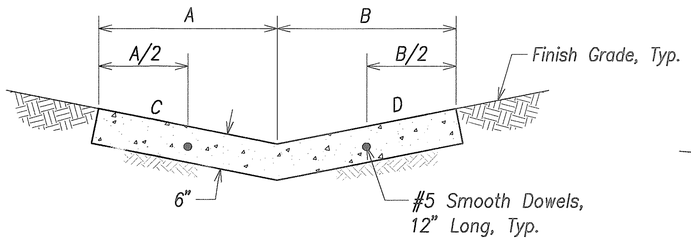
Plan: Ditch A & Ditch B
Scale: Not To Scale



Plan: Ditch C & Ditch E
Scale: Not To Scale

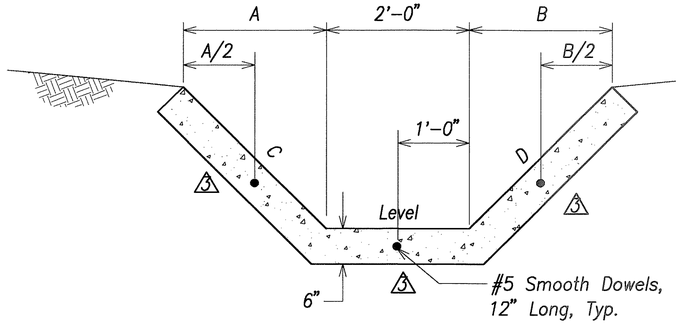


Plan: Ditch F
Scale: Not To Scale



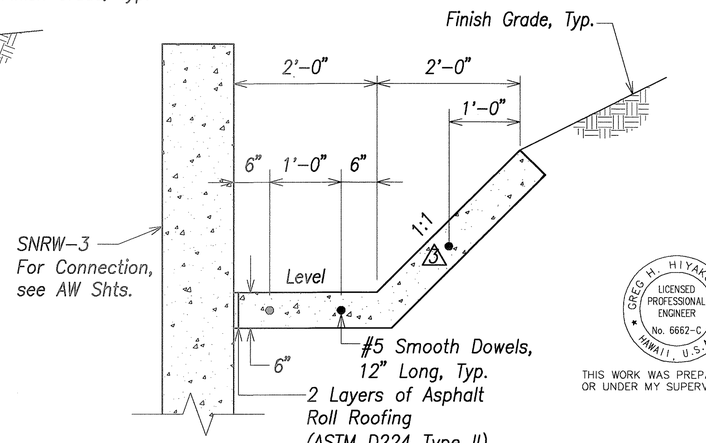
Section "B–B"
Scale: Not To Scale

Ditch	A	B	C	D
A	2'–6"±	3'–0"±	5:1	6:1
B	5'–6"±	2'–6"±	6:1	4:1

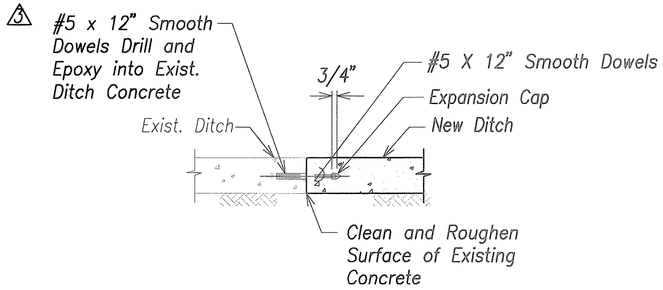


Section "C–C"
Scale: Not To Scale

Ditch	A	B	C	D
C	3'–5"±	3'–0"±	2:1	2:1
E	1'–6"±	1'–11"±	1:1	1:1



Section "D–D"
Scale: Not To Scale



3 Section "A–A"
Scale: Not To Scale

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE ____ April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/16/03	5 Revised Section "A–A".
6/20/03	3 Revised Callouts; Added and Relocated Dowels.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DITCH CONNECTION DETAILS

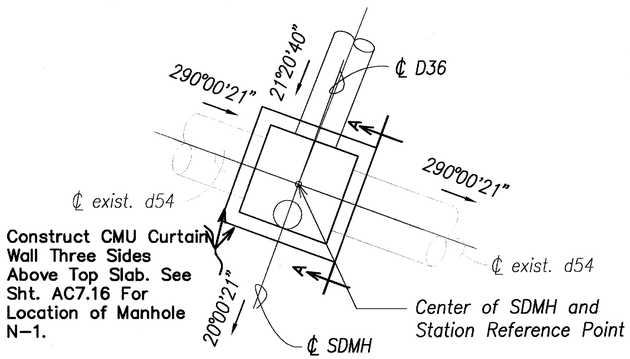
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC7.33 OF 350 SHEETS

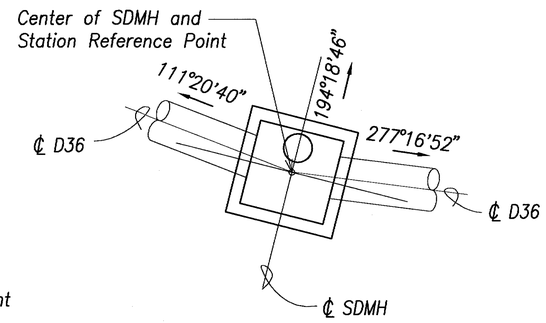
RMTC JOB NO.: 1-19369-0E

ADD. 144

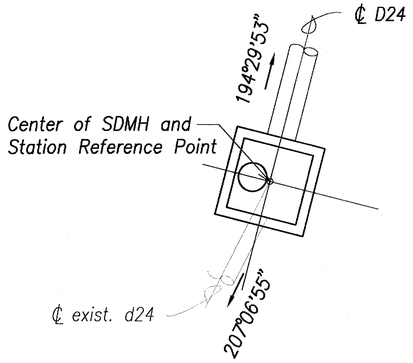
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 145	816



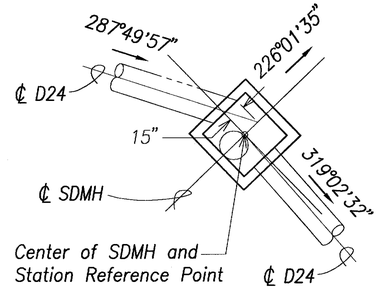
SDMH N-1 (Special)
Scale: 1" = 5'



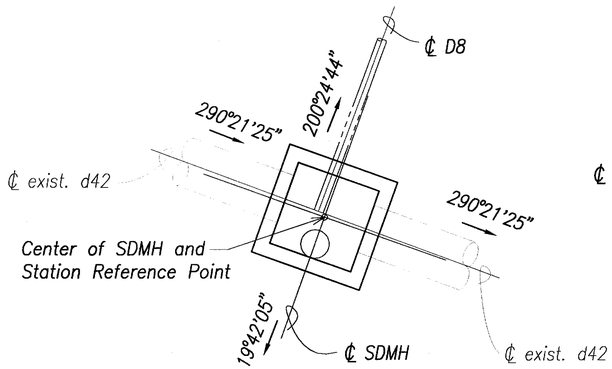
SDMH N-4 (Special)
Scale: 1" = 5'



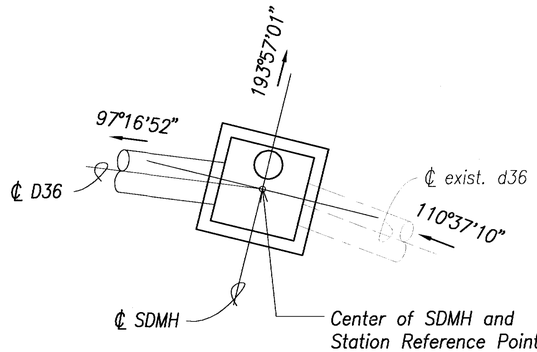
SDMH P-2 (Special)
Scale: 1" = 5'



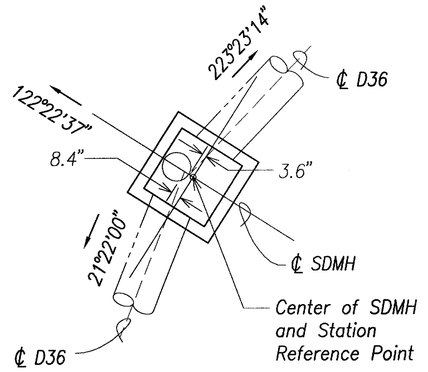
SDMH M-4 (Special)
Scale: 1" = 5'



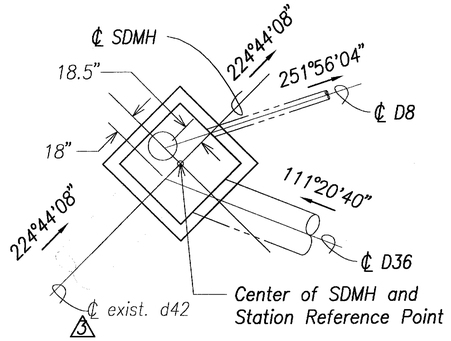
SDMH N-2 (Special)
Scale: 1" = 5'



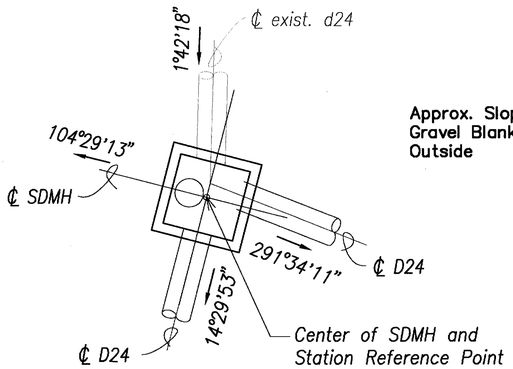
SDMH N-5 (Special)
Scale: 1" = 5'



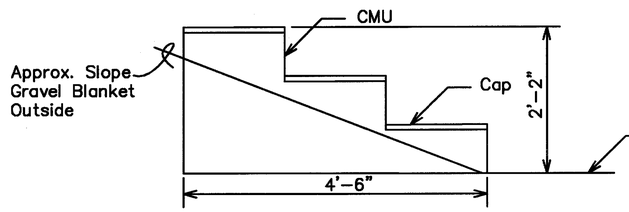
SDMH I-2 (Special)
Scale: 1" = 5'



SDMH N-3 (Special)
Scale: 1" = 5'



SDMH P-1 (Special)
Scale: 1" = 5'



SECTION A-A
SDMH N-1 (Special)
No scale

Graphic Scale
1" = 5' 5' 2.5' 0 5' 10'
Scale in Feet

Notes:

1. For pre-cast manhole, all holes around pipes shall be filled w/ concrete of the same strength as the manhole. No brick shall be used to patch the manhole.
3. 2. For Manhole Reinforcement See Shts. AW16.11 through AW16.19.

LEGEND FOR AS-BUILT POSTINGS

~~WWWW~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Revised Note 2 and Callout. Deleted Dimensions.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPECIAL SDMH LAYOUT PLAN

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=5' Date: Mar. 31, 2003

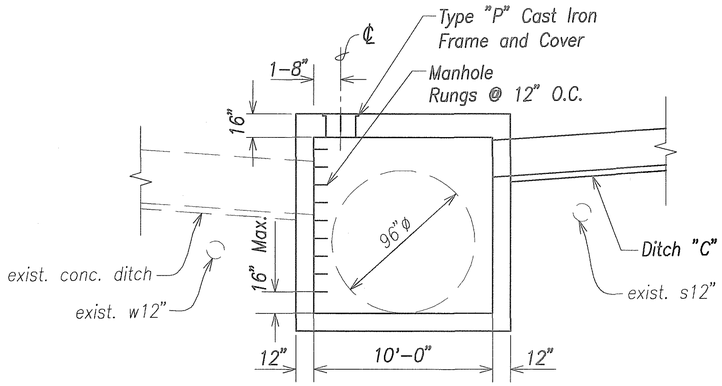
SHEET No. AC7.34 OF 350 SHEETS

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

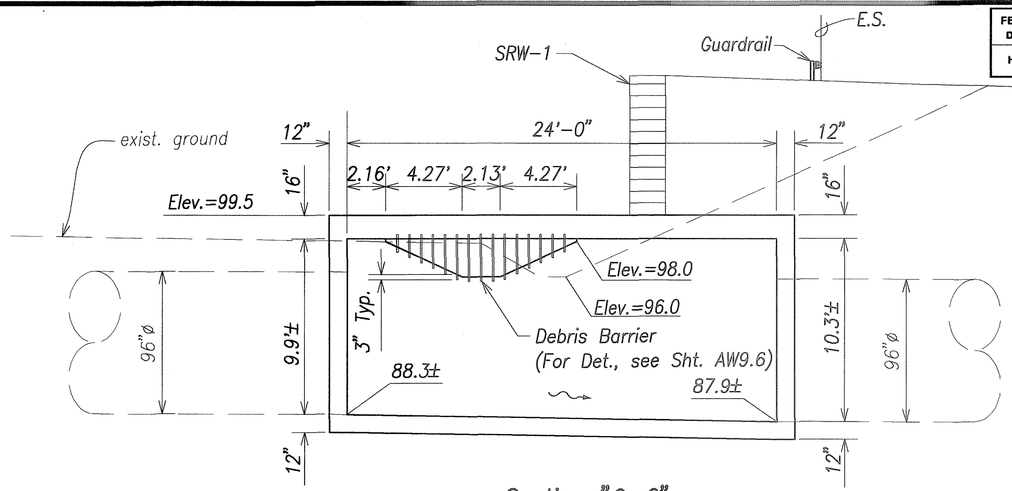
RMTC JOB NO.: 1-19369-OE

"AS-BUILT" ADD. 145

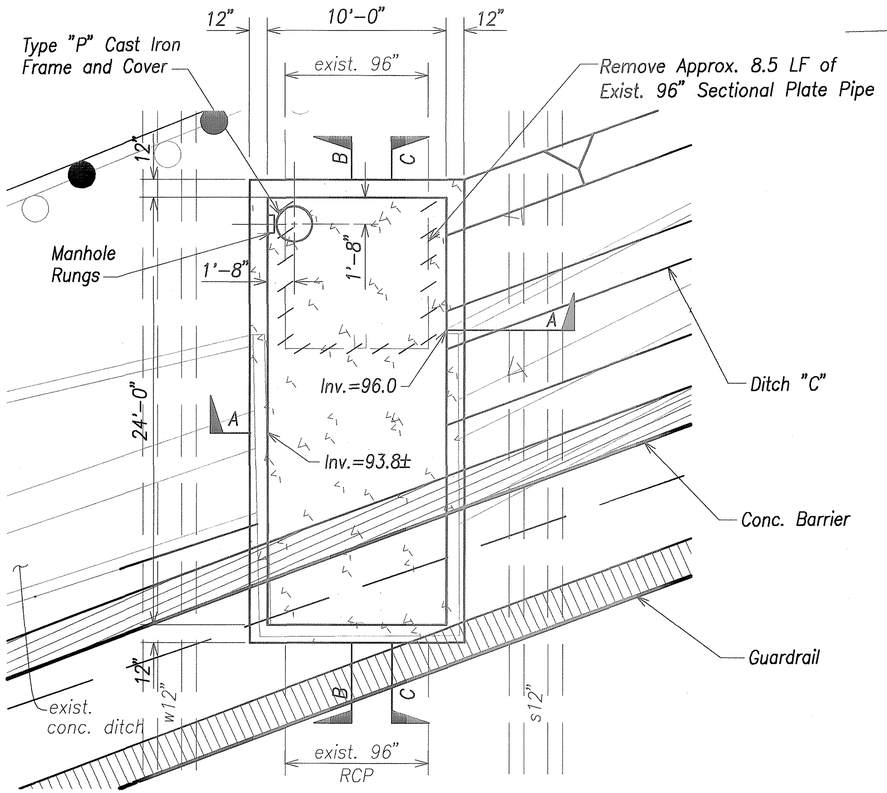
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	146	816



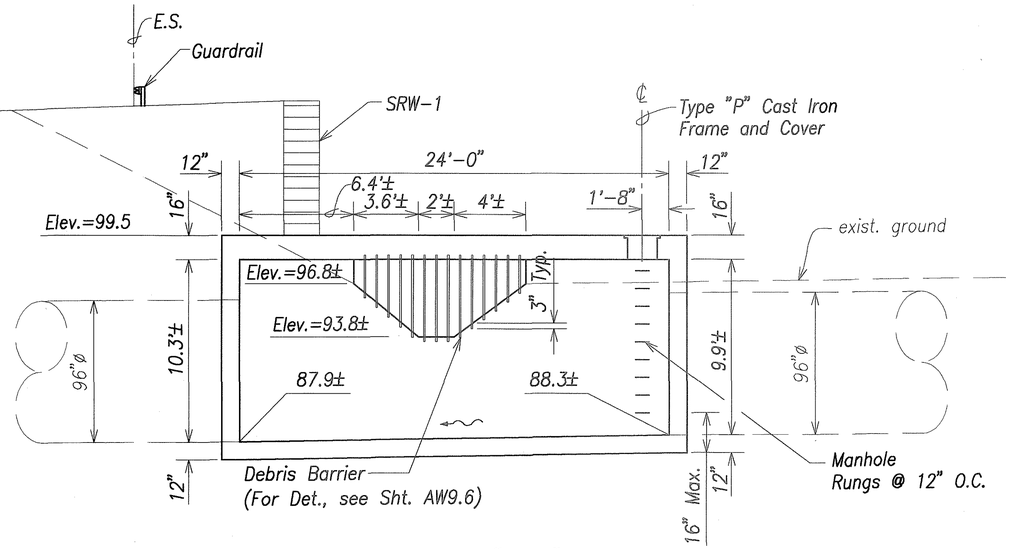
Section "A-A"



Section "C-C"



Plan



Section "B-B"

Note:

For Reinforcing, see Sht. AW9.6 & AW9.8

Inlet Structure No.1 Details

Scale: 1" = 4'

Graphic Scale

1" = 4' 4' 2' 0 4' 8'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INLET STRUCTURE NO. 1 DETAILS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

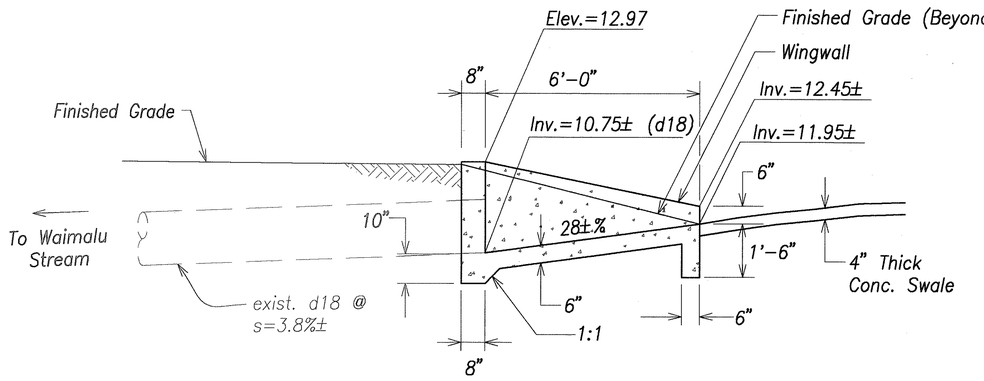
Scale: 1"=4' Date: Mar. 31, 2003

SHEET No. AC7.35 OF 350 SHEETS

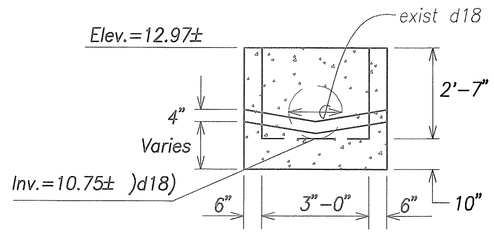
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

RMTC JOB NO.: 1-19369-0E
K:\civil\3-02424\dwg\civil\dwg\Roadway Plan-3.dwg February 19, 2002 2:12pm SueF

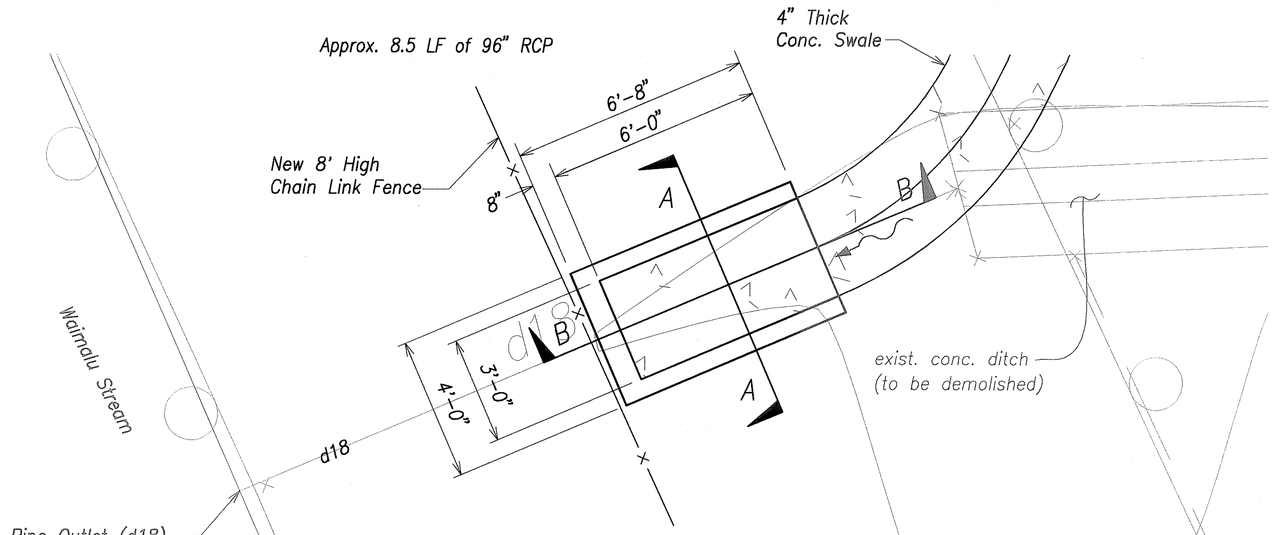
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	147	816



Section "B-B"



Section "A-A"



Plan

Inlet Structure No. 2 Details

Scale: 1" = 2'

Note:

For Reinforcing, see Sht. AW16.21

Graphic Scale

1" = 2' 2' 1' 0 2' 4'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INLET STRUCTURE NO. 2 DETAILS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

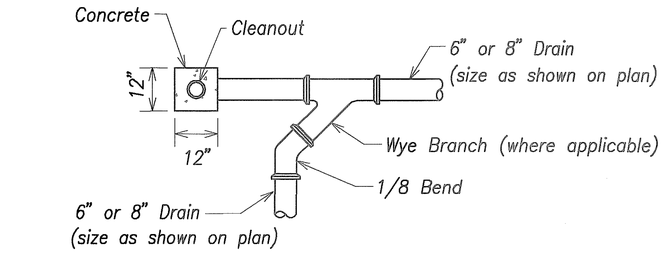
Scale: 1"=2' Date: Mar. 31, 2003

SHEET No. AC7.36 OF 350 SHEETS

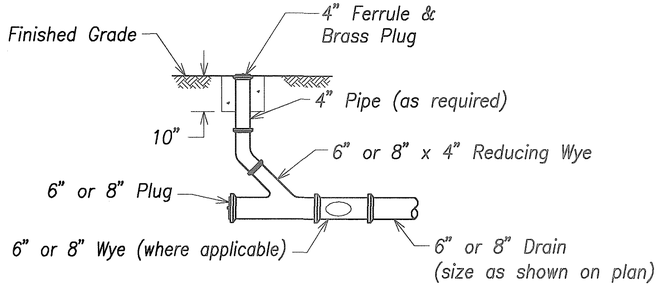
ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE
NOTE BOOK | No.

RMTC JOB NO.: 1-19369-OE
K:\civil\3-02424\dwg\civil\dwg\Roadway Plan-3.dwg February 19, 2002 2:12pm SueF

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 148	816



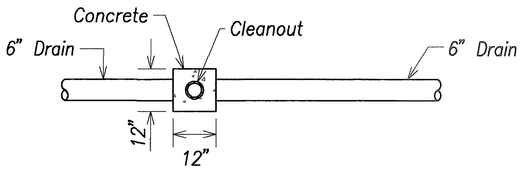
Plan



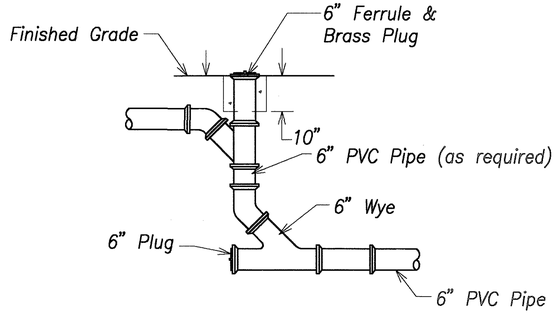
Elevation

Drain Cleanout To Grade (Type "A")

Scale: Not To Scale



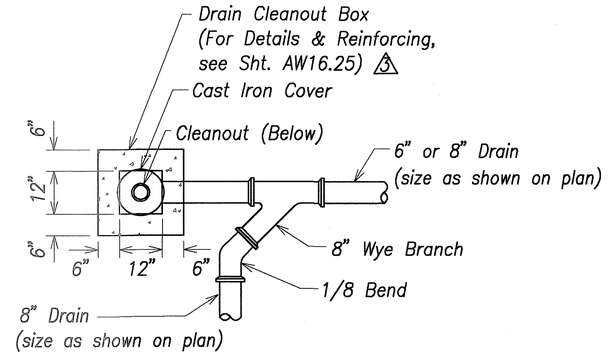
Plan



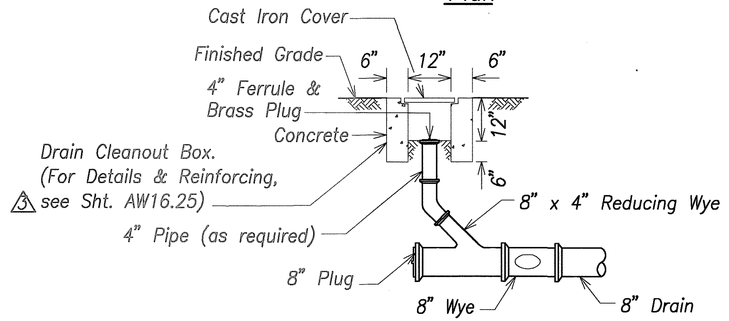
Elevation

Drain Cleanout To Grade (Type "B")

Scale: Not To Scale



Plan



Elevation

Drain Cleanout To Grade (Type "C")

Scale: Not To Scale

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

ORIGINAL PLAN
SURVEY PLOTTED BY
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NOTE BOOK
No.

DATE	REVISION
6/20/03	3 Added References. Deleted Concrete Collar for 24-Inch Drain.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

3 DRAIN CLEANOUT

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

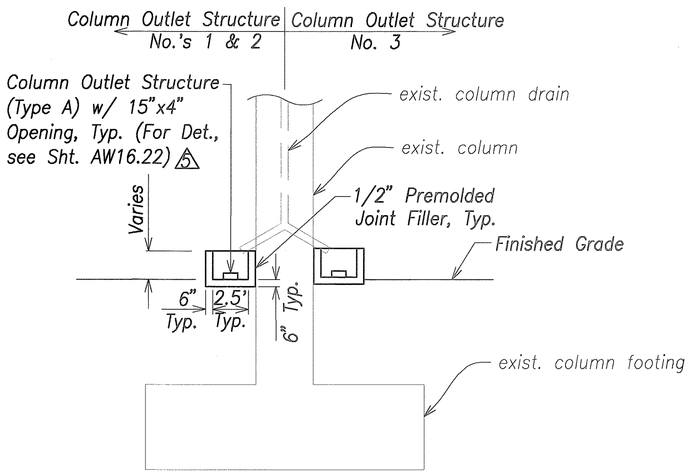
Scale: Not To Scale — Date: Mar. 31, 2003

SHEET No. AC7.37 OF 350 SHEETS

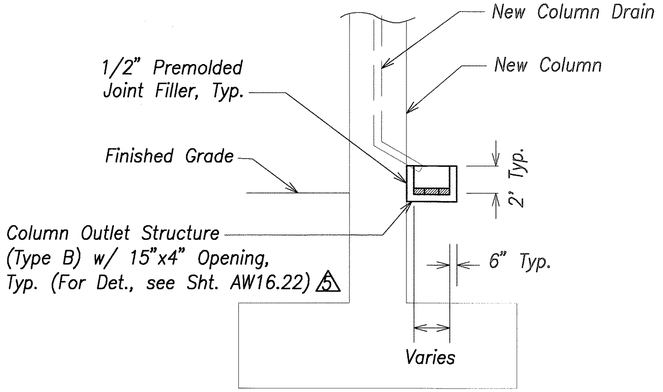
RMTC JOB NO.: 1-19369-OE

ADD. 148

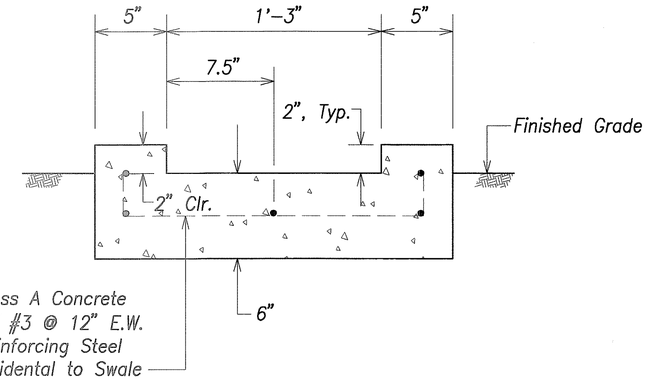
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 149	816



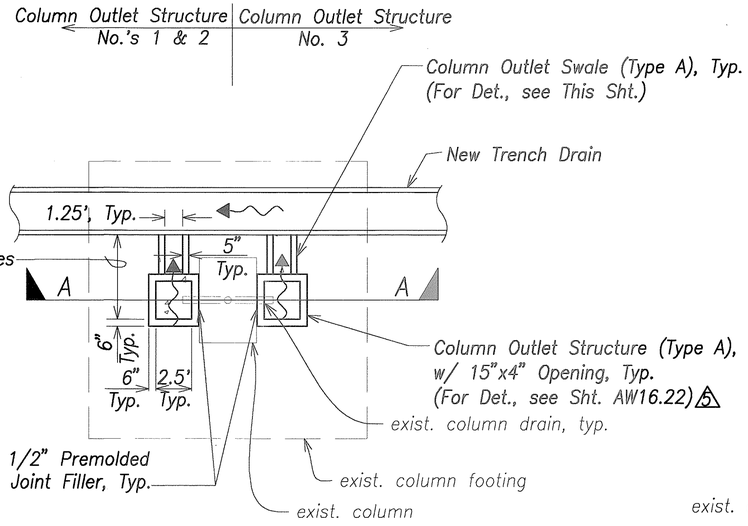
Section "A–A"



Section "B–B"



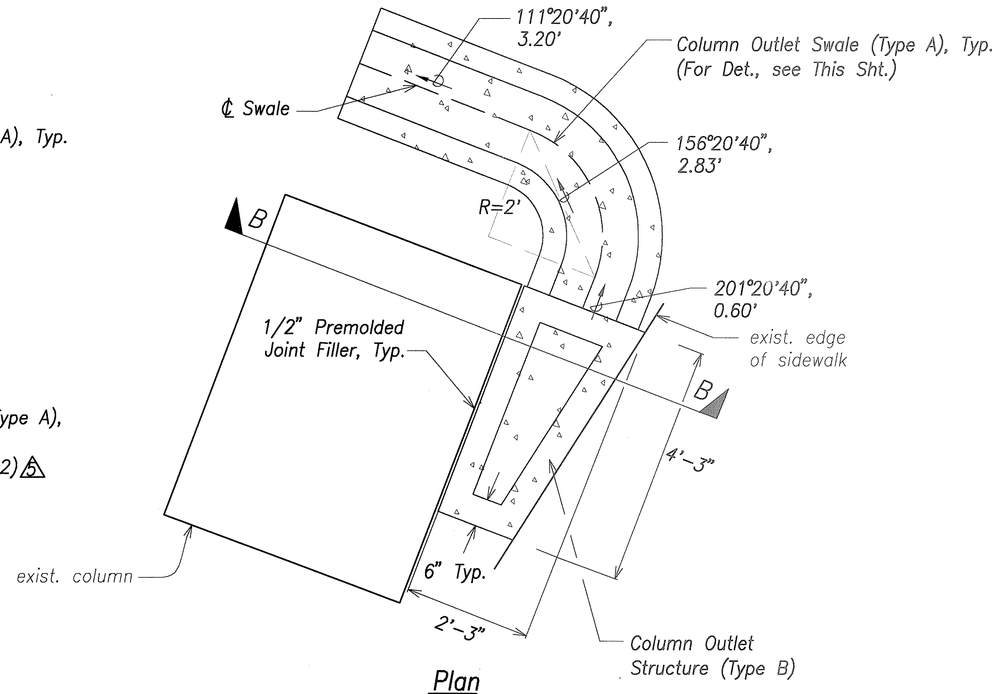
Column Outlet Swale (Type A)



Plan

Typical Column Outlet Structure No.'s 1, 2, & 3

Scale: Not To Scale



Plan

Column Outlet Structure No. 4

Scale: Not To Scale

10/16/03	5 Revised References.
DATE	REVISION

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NOTE BOOK | No.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

COLUMN OUTLET STRUCTURES – 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

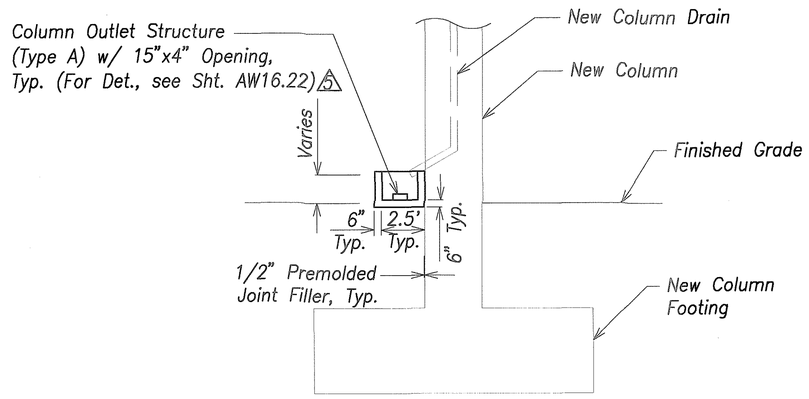
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SHEET No. AC7.38 OF 350 SHEETS

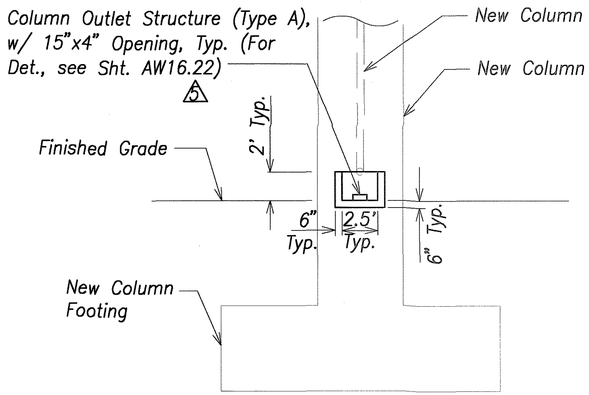
RMTC JOB NO.: 1-19369-0E

ADD. 149

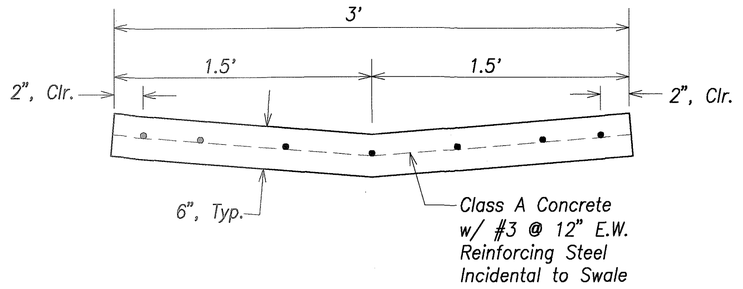
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 150	816



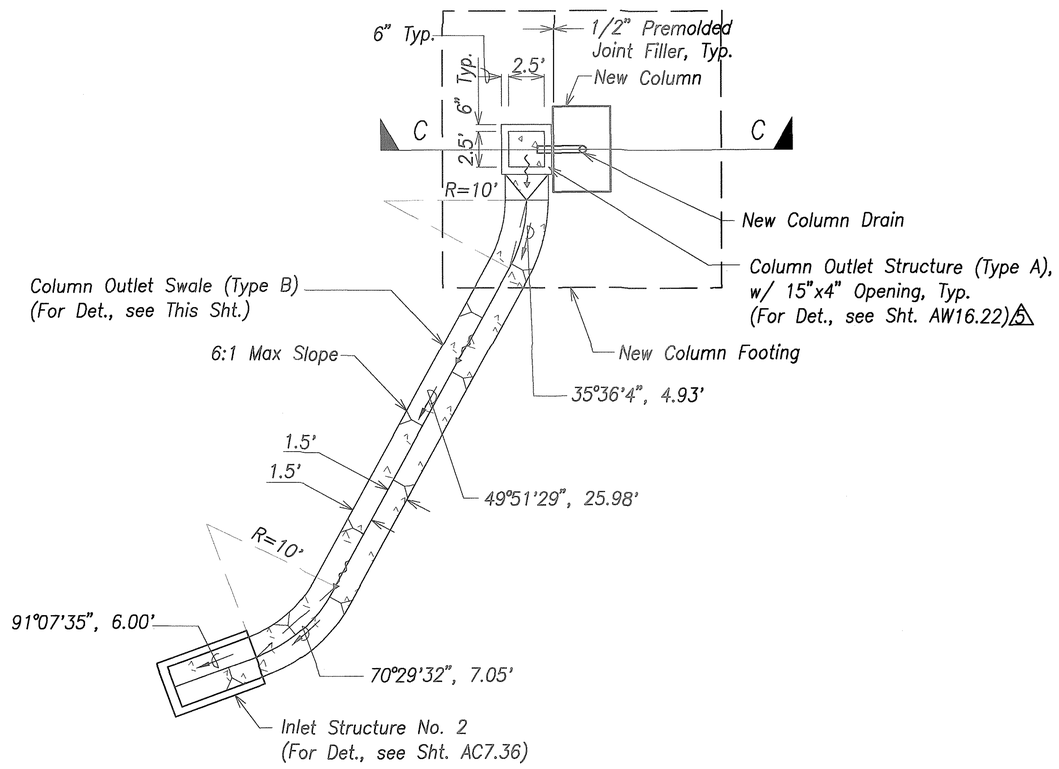
Section "C-C"



Section "D-D"



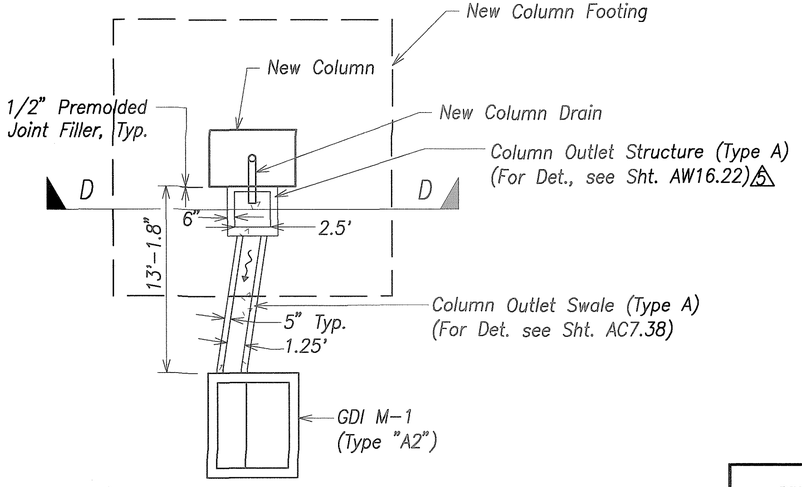
Column Outlet Swale (Type B)



Plan

Column Outlet Structure No. 5

Scale: Not To Scale



Plan

Column Outlet Structure No. 6

Scale: Not To Scale

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

COLUMN OUTLET STRUCTURES - 2

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

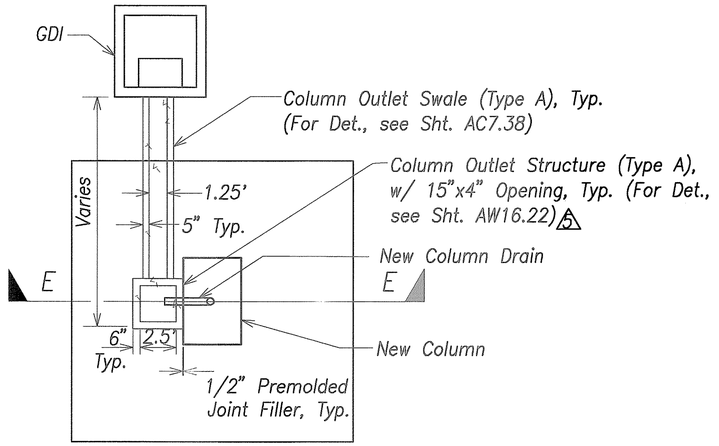
DATE	REVISION
10/16/03	5 Revised References.

SHEET No. AC7.39 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 150

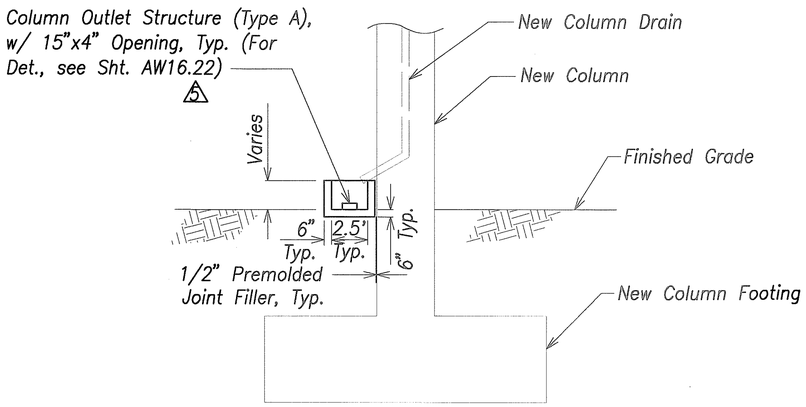
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 151	816



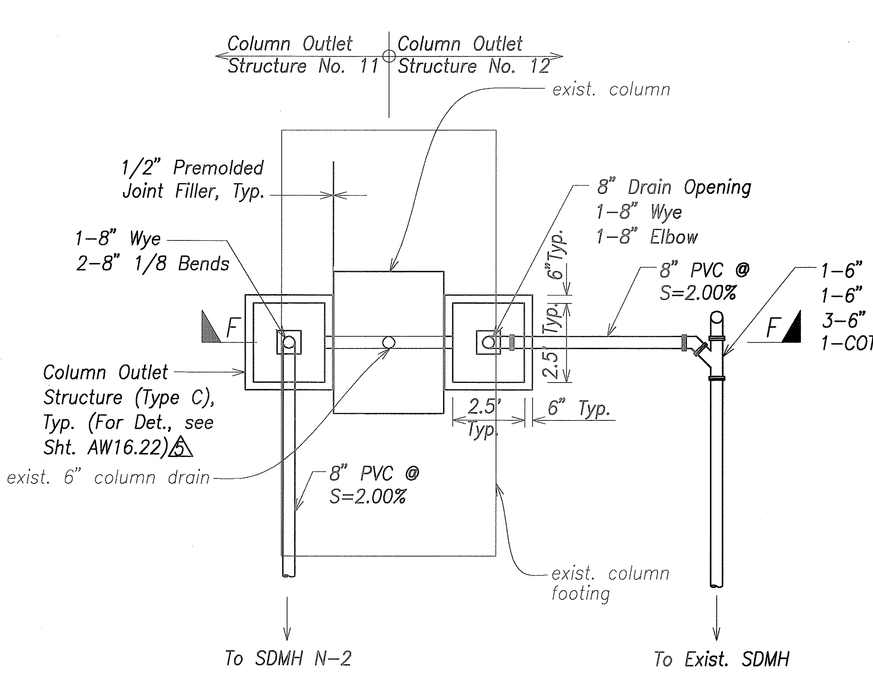
Plan

Typical Column Outlet Structure No.'s 7, 8, 9, & 10

Scale: Not To Scale



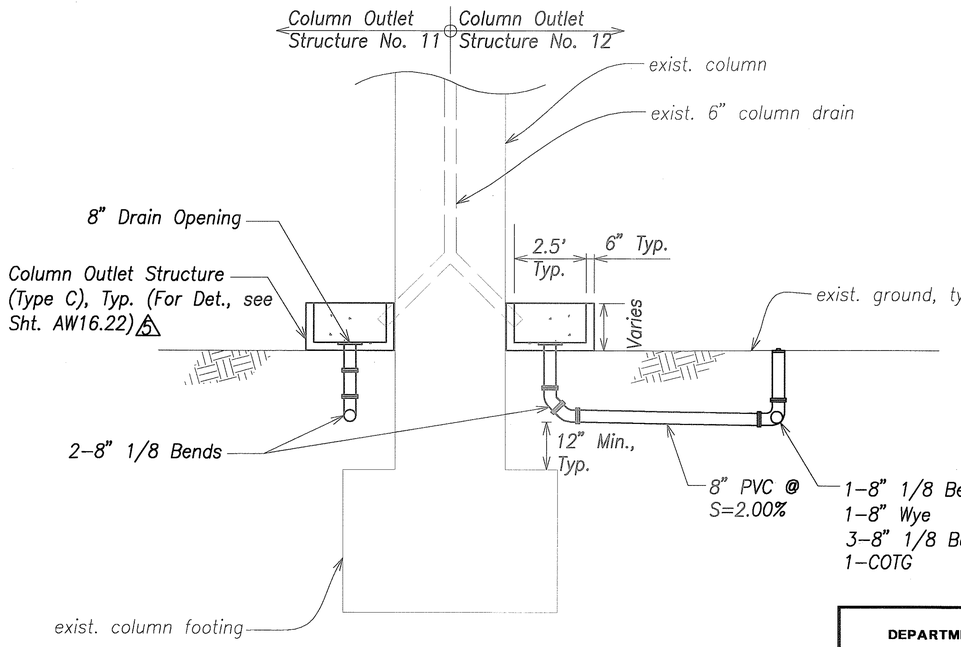
Section "E–E"



Plan

Column Outlet Structure No's 11 & 12

Scale: Not To Scale



Section "F–F"

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GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

COLUMN OUTLET STRUCTURES – 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

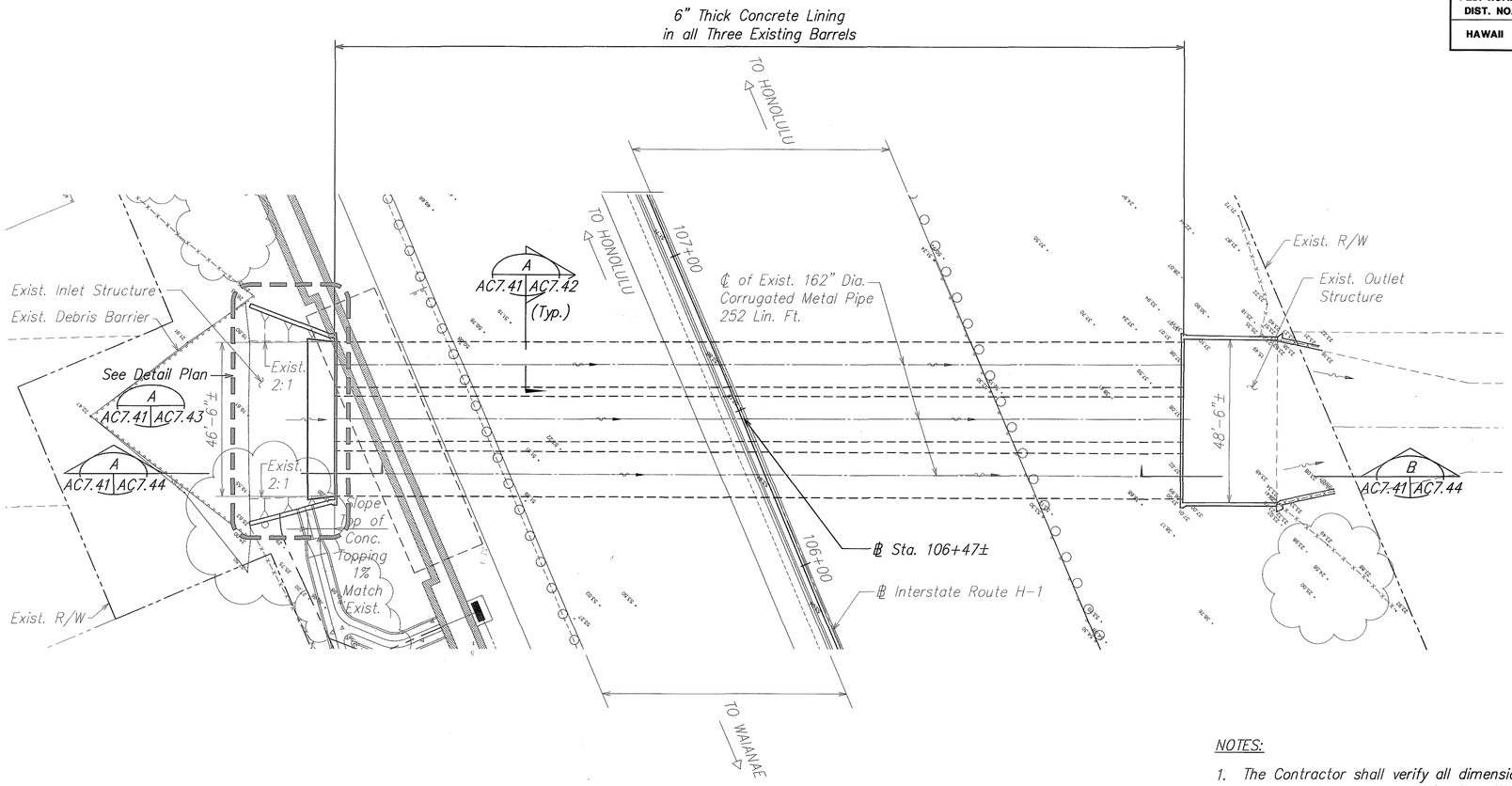
DATE	REVISION
10/16/03	5 Revised References.

SHEET No. AC7.40 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 151

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	152	816



PLAN
SCALE: 1" = 20'

NOTES:

1. The Contractor shall verify all dimensions and site conditions and shall report any discrepancies in writing to the Engineer before commencing work or ordering materials.
2. Plans of the existing culvert are available for review from the Highways Design Branch located at the State Department of Transportation, Highways Division Kakuhihewa Building, Room 609, 601 Kamokila Boulevard, Kapolei, HI 96707 (George Atiburcio, phone number 692-7586).
3. For Construction Sequence, refer to sheet no. AC16.6.
4. Construction of the culvert concrete lining and new headwall shall be completely finished prior to beginning work on the Segmental Retaining Wall (SRW-2B) above the existing culvert shown on sheet AW10.1.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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	CHECKED BY	

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No. 16662-C
HAWAII, U.S.A.

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APRIL 30, 2004
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DAVID K. FUJIWARA
LICENSED PROFESSIONAL ENGINEER
NO. 8104-S
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIPE CULVERT LINING PLAN

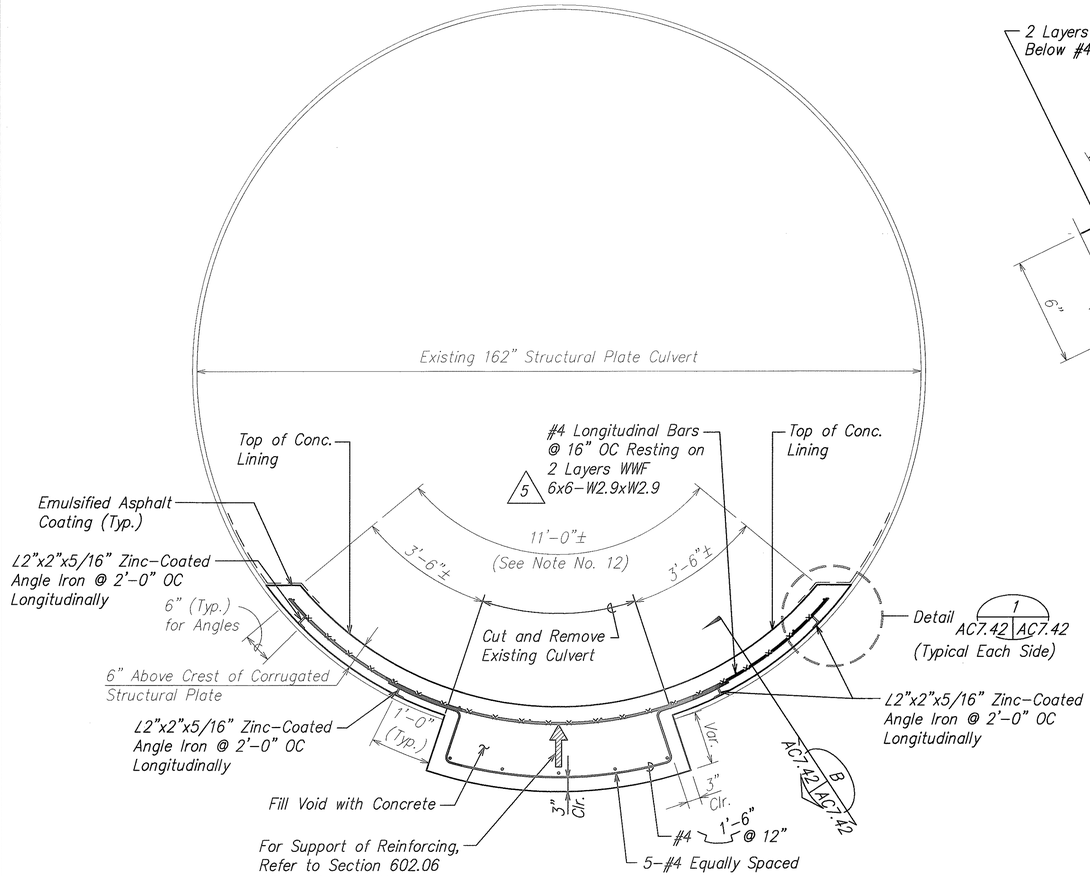
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

SHEET No. AC7.41 OF 349 SHEETS

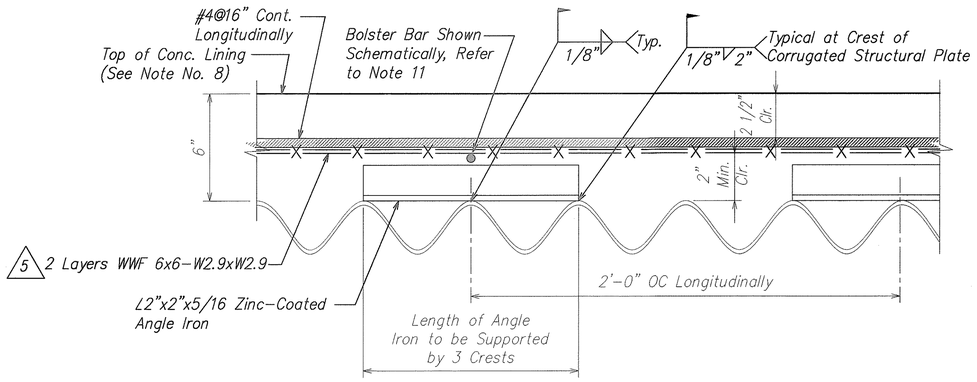
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	153	816



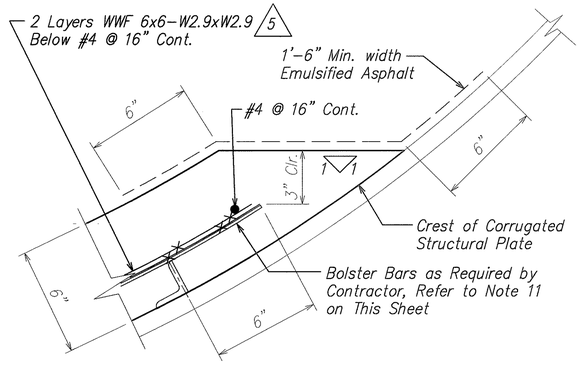
TYPICAL SECTION OF 162" CULVERT — A

SCALE: 3/4" = 1'–0" — AC7.41 | AC7.42



PARTIAL LONGITUDINAL SECTION OF 162" CULVERT LINING — B

SCALE: 3" = 1'–0" — AC7.42 | AC7.42



DETAIL — 1

SCALE: 3" = 1'–0" — AC7.42 | AC7.42

NOTES:

1. Clean the culvert surface of all dirt, rust, scale, and other foreign materials. Do not cut and/or remove culvert sections in increments of more than 50 feet at any one time.
2. Provide adequate bracing for the culvert. The Contractor shall, at the Contractor's own expense, submit stamped working drawings and calculations by a licensed Structural Engineer and a licensed Civil Engineer specializing in geotechnical engineering in the State of Hawaii to determine the required amount of bracing. Install the bracing required prior to commencing culvert work. The bracing shall remain in place for not less than 72 hours after the concrete lining has been poured.
3. Weld zinc–coated angle irons to the structural plate culvert at 2 feet on–center longitudinally. Lap the welded wire fabric a minimum of 12 inches.
4. Place #4 rebars longitudinally at 16 inches on–center and lap a minimum of 18 inches between concrete pours.
5. The culvert surface to be in contact with the epoxy shall be clean and dry. Apply the epoxy bonding agent just before the placement of the concrete. Remove any excess bonding agent that collects in pockets.
6. The concrete for the culvert lining, new headwall and topping on existing apron shall have a minimum 28–day compressive strength of 4,000 psi. The water–cement ratio shall not exceed 0.45. No water shall be added at the jobsite.
7. Fill voids under the structural plate with 4,000 psi concrete. Trowel the concrete to form a smooth, dense surface finish.
8. Score the top of the concrete culvert lining 3/4–inch deep transversely, 20 feet max. longitudinally on–center.
9. Apply 12–inch minimum width coating of Emulsified Asphalt transversely at score lines, and 18–inch minimum width to both edges of the new concrete lining (see Detail 1/AC7.42) not less than 14 days after the new concrete lining has been completely poured. The finished coating shall be a continuous film free of voids, gaps or pin holes.
10. All construction joints shall be perpendicular to the surface and to the full depth of the concrete lining.
11. Bolster bars shall be ASTM A706 and be welded to the angle iron. Size, spacing and length of bolster bars to be determined by Contractor to support WWF's, longitudinal reinforcing and construction loading.
12. Depending on the degree and extent of deterioration, the Engineer may adjust the limits of the work with no change in the Contract price.
13. Unless otherwise noted, all exposed concrete edges shall be chamfered 3/4" x 3/4".
14. For Glass Fiber Reinforced Polymer (GFRP) rebars, see note 6 under Viaduct General Notes on sheet AS0.4.
15. (5) All welded wire fabric (WWF) shall be galvanized.

GREG H. HIYAKUMOTO — LICENSED PROFESSIONAL ENGINEER — No. 6662–C — HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

DAVID K. FUJIWARA — LICENSED PROFESSIONAL ENGINEER — NO. 8104–S — HAWAII, U.S.A.

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SIGNATURE 4–30–04 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/16/03	(5) Revise WWF.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIPE CULVERT LINING SECTIONS AND DETAILS

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

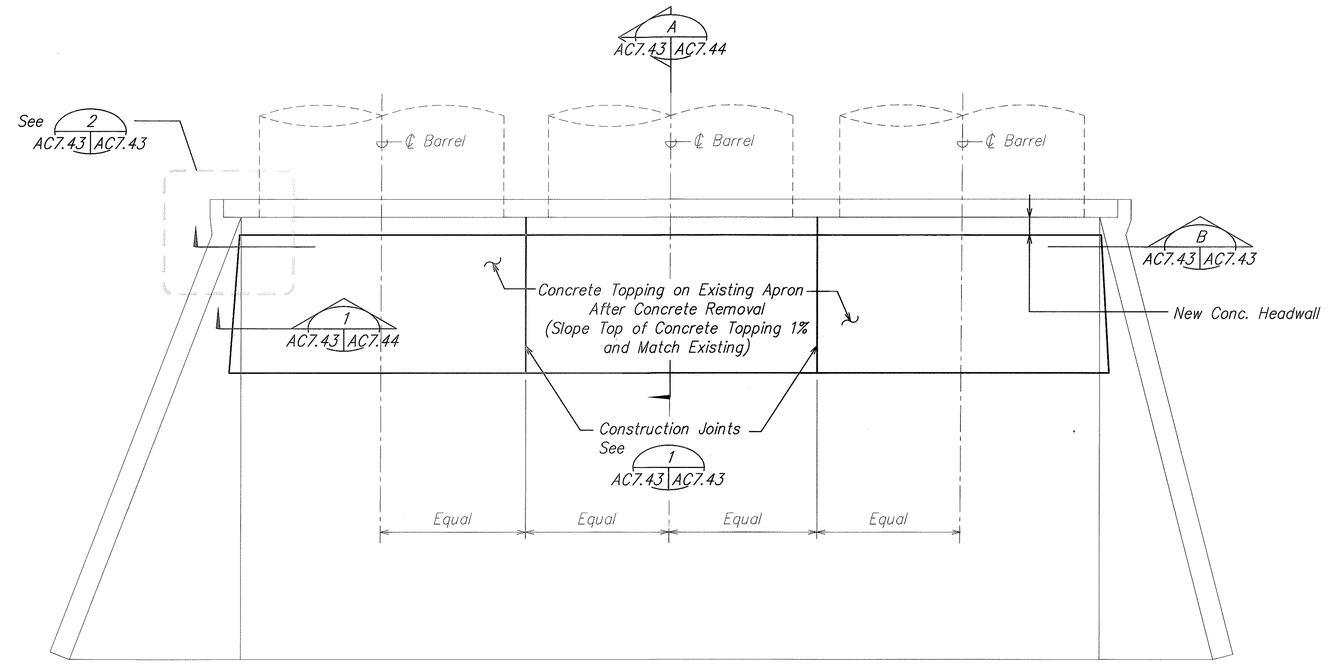
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SHEET No. AC7.42 OF 349 SHEETS

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

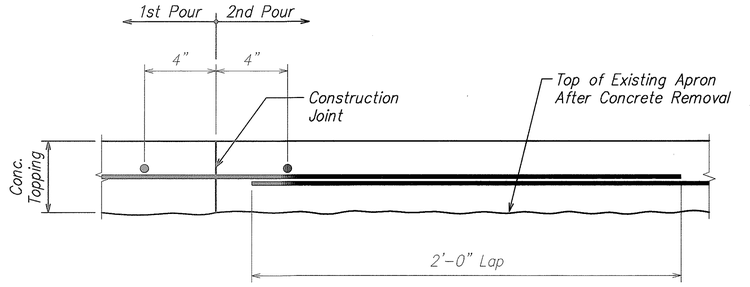
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AC0742.DWG 1 = 1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	154	816



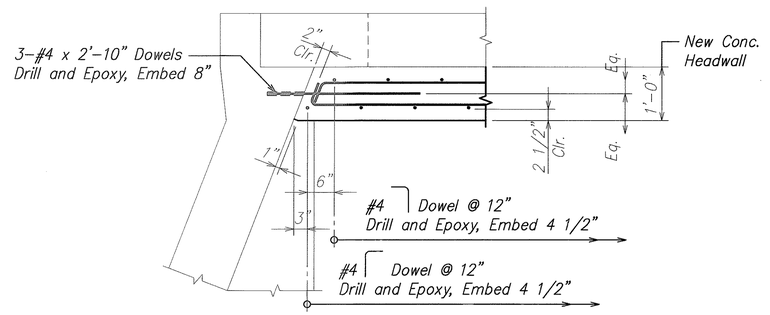
INLET PLAN (A AC7.41 AC7.43)

SCALE: 1/4" = 1'-0"



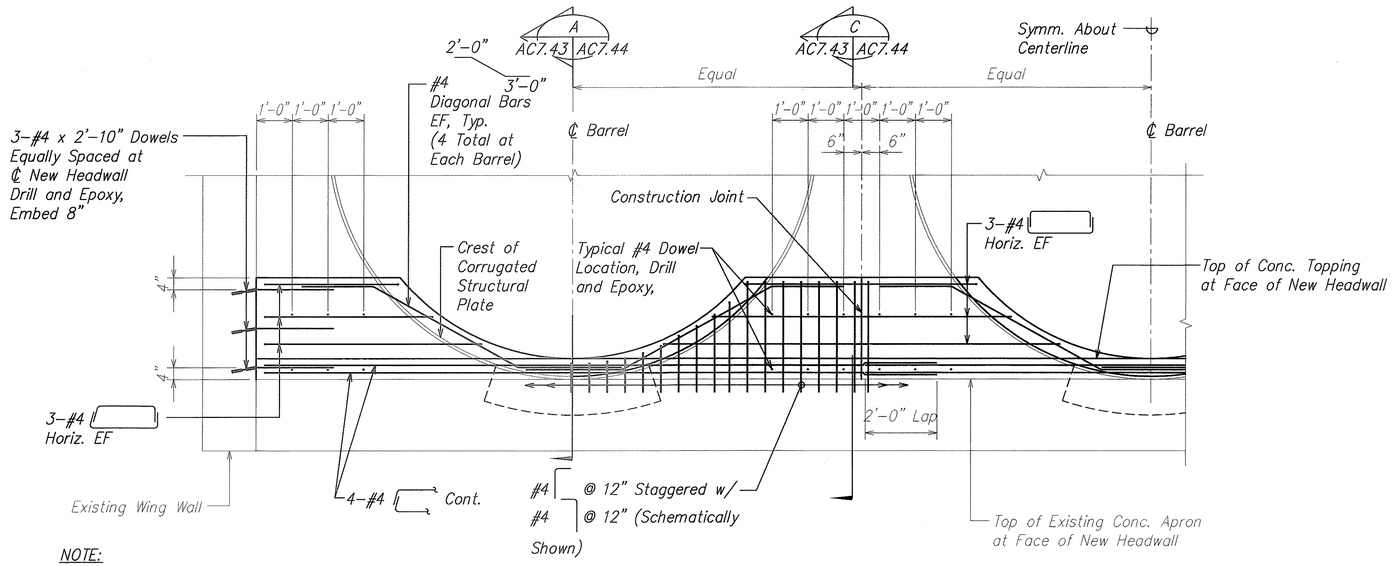
CONSTRUCTION JOINT DETAIL IN TOPPING (1 AC7.43 AC7.43)

SCALE: 3" = 1'-0"



CORNER DETAIL (2 AC7.43 AC7.43)

SCALE: 3/4" = 1'-0"



NOTE:

#4 @ 8" Longitudinal Bars in Culvert Lining Not Shown for Clarity.

PARTIAL INLET HEADWALL ELEVATION (B AC7.43 AC7.43)

SCALE: 1/2" = 1'-0"

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

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David K. Fujiwara 4-30-04
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIPE CULVERT PLAN, ELEVATION AND DETAILS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

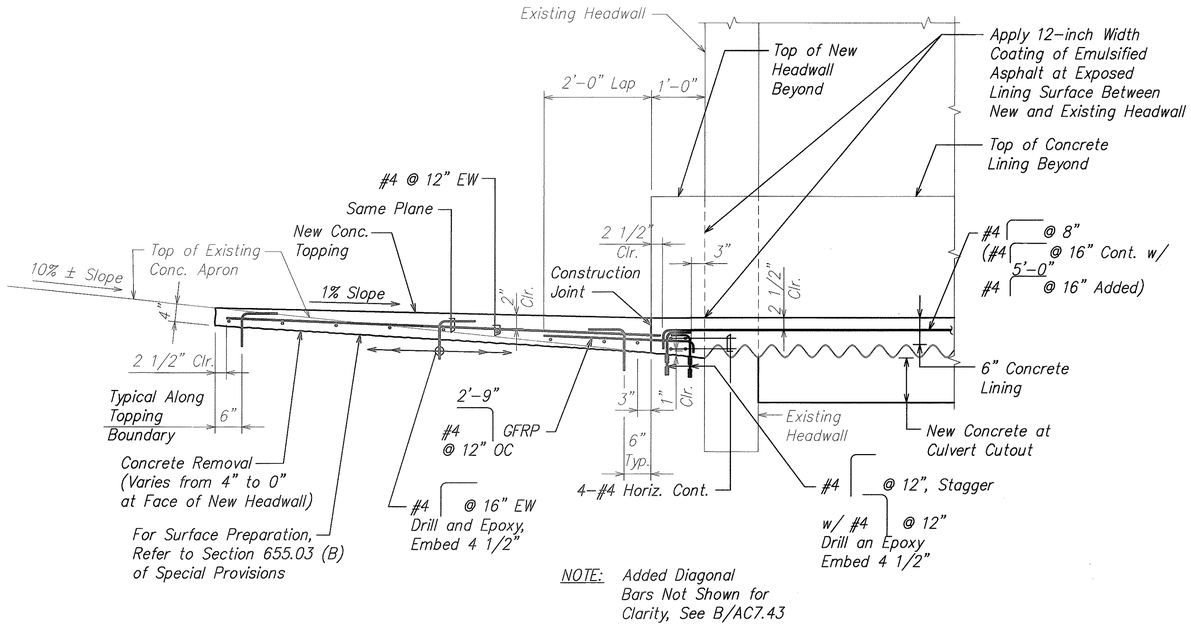
SHEET No. AC7.43 OF 349 SHEETS

154

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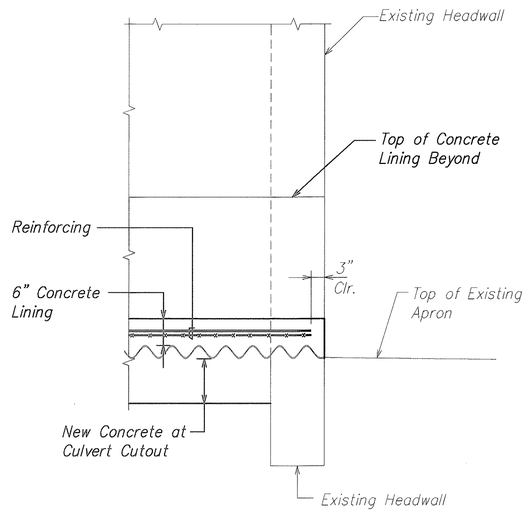
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	155	816



SECTION AT CULVERT INLET (A)

SCALE: 3/4" = 1'-0:

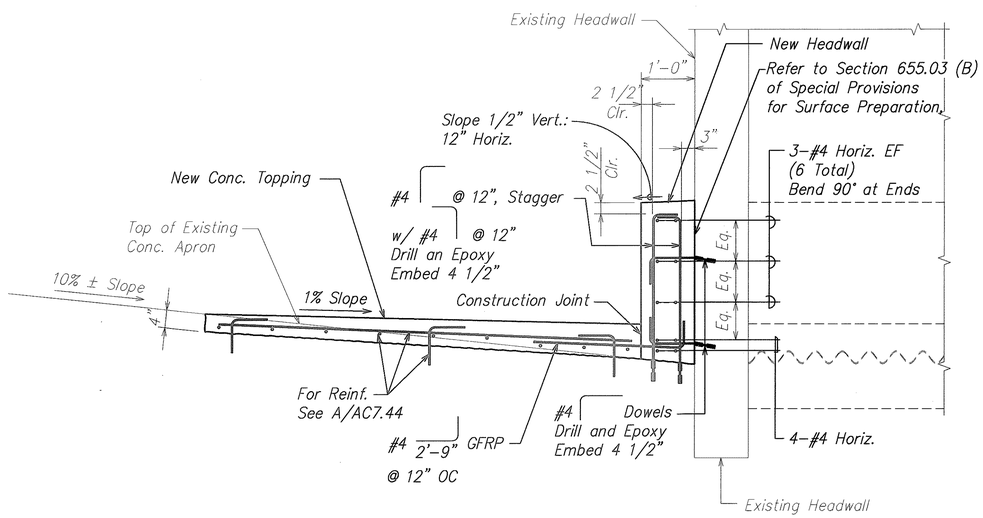
AC7.41 | AC7.44 | AC7.43



SECTION AT OUTLET HEADWALL (B)

SCALE: 3/4" = 1'-0:

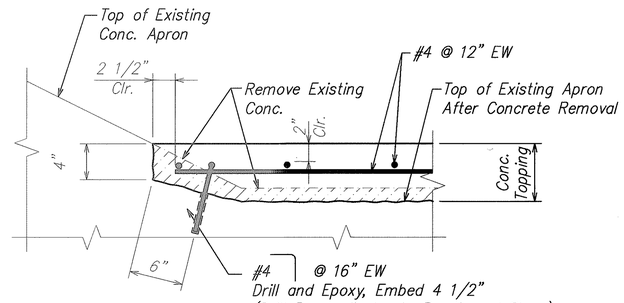
AC7.41 | AC7.44



SECTION AT INLET HEADWALL (C)

SCALE: 3/4" = 1'-0:

AC7.43 | AC7.44



TOPPING DETAIL (1)

SCALE: 1 1/2" = 1'-0"

AC7.43 | AC7.44

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

DAVID K. FUJIWARA ★ LICENSED PROFESSIONAL ENGINEER ★ NO. 8104-S ★ HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

David K. Fujiwara 4-30-04

SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIPE CULVERT LINING SECTIONS AND DETAILS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Noted Date: Mar. 31, 2003

SHEET No. AC7.44 OF 349 SHEETS

WV-AC0743.DWG
1 = 1

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 156	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																	
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURE TYPE	ITEM NO. FROM STRUCTURES	ITEM NO. TO STRUCTURES	STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	BED COURSE MATERIAL FOR CULVERT	6-INCH POLYVINYL CHLORIDE PIPE, SDR 35	8-INCH POLYVINYL CHLORIDE PIPE, SDR 35	12-INCH POLYVINYL CHLORIDE PIPE, SDR 35 △3	8-INCH DUCTILE IRON PIPE, CLASS 52	12-INCH DUCTILE IRON PIPE, CLASS 52	24-INCH REINFORCED CONCRETE PIPE, CLASS III	36-INCH REINFORCED CONCRETE PIPE, CLASS III	CONCRETE COLLAR FOR 24-INCH DRAIN CONNECTION	CONCRETE COLLAR FOR 36-INCH DRAIN CONNECTION	24-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 24-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	30-INCH REINFORCED CPNCRETE PIPE, CLASS III, OR 30-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	36-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 36-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	LINED DRAINAGE DITCH, TYPE "A"	LINED DRAINAGE DITCH, TYPE "B"	LINED DRAINAGE DITCH, TYPE "C"	LINED DRAINAGE DITCH, TYPE "D"	LINED DRAINAGE DITCH, TYPE "E"
			UNIT		C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
AC7.3	A	DITCH																			200	
	B	DITCH																				350 △3
AC7.4	IS-1	INLET STRUCTURE			232 △3																	
	C	DITCH																		63		
	D	DITCH																	10			
AC7.5	D	DITCH																	410 △3			
	E	DITCH																	26 △3			83 △3
	A-1	TYPE A1 GDI			52 △5																	
		24" PIPE	A-1	A-2	8 △3											14						
	A-2	TYPE A SDMH			50 △3																	
		24" PIPE	A-2	A-3	499 △3											155 △3						
AC7.6	E	DITCH																	501 △3			
		24" PIPE	A-2	A-3												93 △3						
	A-3	TYPE A SDMH			42 △3																	
		24" PIPE	A-3	A-4	438 △3											210 △3						
	A-4	TYPE A SDMH			51 △3																	
		24" PIPE	A-4	A-5	238 △3											100 △3						
	A-5	TYPE A2 GDI			59 △3																	
		24" PIPE	A-5	A-6	425 △3											100						
AC7.7	E	DITCH																	193 △3			
		24" PIPE	A-5	A-6												80						
	A-6	TYPE A2 GDI			45 △3																	
		24" PIPE	A-6	A-7	179 △3											85						
	A-7	TYPE A SDMH			70 △3																	
		24" PIPE	A-7	A-8	191 △3											71						
	A-8	TYPE A3 GDI			99 △3																	
		24" PIPE	A-8	A-9	173 △3											89						
	A-9	TYPE A2 GDI			45 △3																	
		24" PIPE	A-9	A-10	147 △3	325 △3										100						
SUB-TOTAL THIS SHEET					3,043 △5	325 △3										1,097 △3			1,140 △3	200	350 △3	63	83 △3

DATE	REVISION
10/16/03	△5 Revised Quantities.
6/20/03	△3 Revised Quantities. Added Item.

ORIGINAL PLAN
SURVEY PLOTTED BY
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No.
DATE

SHEET No. AC7.45 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 156

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 157	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																		
			ITEM NO.																				
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURE TYPE	FROM STRUCTURES	TO STRUCTURES	LINED DRAINAGE DITCH, TYPE "F"	LINED DRAINAGE DITCH, TYPE "G"	TYPE A STORM DRAIN MANHOLE, 5 FT TO 5.99 FT 3	TYPE A STORM DRAIN MANHOLE, 6 FT TO 6.99 FT 3	TYPE A STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	TYPE A STORM DRAIN MANHOLE, 10 FT TO 10.99 FT	TYPE B STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	TYPE E STORM DRAIN MANHOLE, 5 FT TO 5.99 FT 3	TYPE E STORM DRAIN MANHOLE, 6 FT TO 6.99 FT 3	SPECIAL STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	SPECIAL STORM DRAIN MANHOLE, 5 FT TO 5.99 FT	SPECIAL STORM DRAIN MANHOLE, 6 FT TO 6.99 FT	SPECIAL STORM DRAIN MANHOLE, 7 FT TO 7.99 FT	SPECIAL STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	SPECIAL STORM DRAIN MANHOLE, 15 FT TO 15.99 FT	TYPE D CATCH BASIN, 4 FT TO 4.99 FT	TYPE D CATCH BASIN, 5 FT TO 5.99 FT	COLUMN DRAIN CLEANOUT	DRAIN CLEANOUT TO GRADE	TRENCH DRAIN	GROUTED RUBBLE PAVING FOR 6' X 6' GRP PAD
			UNIT		LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	C.Y.
AC7.3	A	DITCH																						
	B	DITCH																						
AC7.4	IS-1	INLET STRUCTURE																						
	C	DITCH																						
	D	DITCH																						
AC7.5	D	DITCH																						
	E	DITCH																						
	A-1	TYPE A1 GDI																						
		24" PIPE	A-1	A-2																				
	A-2	TYPE A SDMH							1															
		24" PIPE	A-2	A-3																				
AC7.6	E	DITCH																						
		24" PIPE	A-2	A-3																				
	A-3	TYPE A SDMH						1 3																
		24" PIPE	A-3	A-4																				
	A-4	TYPE A SDMH						1																
		24" PIPE	A-4	A-5																				
	A-5	TYPE A2 GDI																						
		24" PIPE	A-5	A-6																				
AC7.7	E	DITCH			328 3																			
		24" PIPE	A-5	A-6																				
	A-6	TYPE A2 GDI																						
		24" PIPE	A-6	A-7																				
	A-7	TYPE A SDMH								1														
		24" PIPE	A-7	A-8																				
	A-8	TYPE A3 GDI																						
		24" PIPE	A-8	A-9																				
	A-9	TYPE A2 GDI																						
		24" PIPE	A-9	A-10																				
SUB-TOTAL THIS SHEET					328 3			2 3	1	1														

DATE	REVISION
6/20/03	3 Revised Quantities. Added and Deleted Items.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

RMTC JOB NO.: 1-19369-0E

ADD. 157

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 158	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																				
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURE TYPE	ITEM NO. FROM STRUCTURES	ITEM NO. TO STRUCTURES	3 TYPE A1 GRATED DROP INLET, 4 FT TO 4.99 FT	TYPE A1 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A1 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A1 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A1 GRATED DROP INLET, 8 FT TO 8.99 FT	TYPE A1 GRATED DROP INLET, 10 FT TO 10.99 FT	TYPE A1 GRATED DROP INLET, 14 FT TO 14.99 FT	3 TYPE A2 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A2 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A2 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A2 GRATED DROP INLET, 13 FT TO 13.99 FT	3 TYPE A3 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A3 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE A3 GRATED DROP INLET, 12 FT TO 12.99 FT	TYPE A4 GRATED DROP INLET, 10 FT TO 10.99 FT	TYPE A5 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE B4 STEEL FRAME AND GRATE	TYPE B6 STEEL FRAME AND GRATE	TYPE B8 STEEL FRAME AND GRATE			
		UNIT			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
AC7.3	A	DITCH																							
	B	DITCH																							
AC7.4	IS-1	INLET STRUCTURE																							
	C	DITCH																							
	D	DITCH																							
AC7.5	D	DITCH																							
	E	DITCH																							
	A-1	TYPE A1 GDI								1															
		24" PIPE	A-1	A-2																					
	A-2	TYPE A SDMH																							
		24" PIPE	A-2	A-3																					
AC7.6	E	DITCH																							
		24" PIPE	A-2	A-3																					
	A-3	TYPE A SDMH																							
		24" PIPE	A-3	A-4																					
	A-4	TYPE A SDMH																							
		24" PIPE	A-4	A-5																					
	A-5	TYPE A2 GDI										1													
		24" PIPE	A-5	A-6																					
AC7.7	E	DITCH																							
		24" PIPE	A-5	A-6																					
	A-6	TYPE A2 GDI										3	1 3												
		24" PIPE	A-6	A-7																					
	A-7	TYPE A SDMH																							
		24" PIPE	A-7	A-8																					
	A-8	TYPE A3 GDI															1								
		24" PIPE	A-8	A-9																					
	A-9	TYPE A2 GDI											1												
		24" PIPE	A-9	A-10																					
SUB-TOTAL THIS SHEET										1		1 3	2 3				1								

DATE	REVISION
6/20/03	3 Revised Quantities. Deleted Items.

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

RMTC JOB NO.: 1-19369-0E

ADD. 158

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 159	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES									
													653	
			ITEM NO.										.0010	
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURE TYPE	FROM STRUCTURES	TO STRUCTURES	INLET STRUCTURE, 2 FT TO 2.99 FT	INLET STRUCTURE, 11 FT TO 11.99 FT	COLUMN OUTLET STRUCTURE, TYPE A	COLUMN OUTLET STRUCTURE, TYPE B	COLUMN OUTLET STRUCTURE, TYPE C	COLUMN OUTLET SWALE, TYPE A	COLUMN OUTLET SWALE, TYPE B	COLUMN OUTLET SWALE, TYPE C	162-INCH STRUCTURAL PLATE	3
			UNIT		EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN FT.	LIN. FT.	L.S.	
AC7.3	A	DITCH												
	B	DITCH												
AC7.4	IS-1	INLET STRUCTURE				1								
	C	DITCH												
	D	DITCH												
AC7.5	D	DITCH												
	E	DITCH												
	A-1	TYPE A1 GDI												
		24" PIPE	A-1	A-2										
	A-2	TYPE A SDMH												
		24" PIPE	A-2	A-3										
AC7.6	E	DITCH												
		24" PIPE	A-2	A-3										
	A-3	TYPE A SDMH												
		24" PIPE	A-3	A-4										
	A-4	TYPE A SDMH												
		24" PIPE	A-4	A-5										
	A-5	TYPE A2 GDI												
		24" PIPE	A-5	A-6										
AC7.7	E	DITCH												
		24" PIPE	A-5	A-6										
	A-6	TYPE A2 GDI												
		24" PIPE	A-6	A-7										
	A-7	TYPE A SDMH												
		24" PIPE	A-7	A-8										
	A-8	TYPE A3 GDI												
		24" PIPE	A-8	A-9										
	A-9	TYPE A2 GDI												
		24" PIPE	A-9	A-10										
SUB-TOTAL THIS SHEET						1								

SURVEY PLOTTED BY	DATE
DRAWN BY	" "
TRACED BY	" "
DESIGNED BY	
QUANTITIES BY	" "
CHECKED BY	

ORIGINAL PLAN

NOTE BOOK

No.

DATE	REVISION
6/20/03	3 Deleted Item.

RMTC JOB NO.: 1-19369-0E

ADD. 159

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 160	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																	
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	ITEM NO. FROM STRUCTURES	ITEM NO. TO STRUCTURES	STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	BED COURSE MATERIAL FOR CULVERT	6-INCH POLYVINYL CHLORIDE PIPE, SDR 35	8-INCH POLYVINYL CHLORIDE PIPE, SDR 35	12-INCH POLYVINYL CHLORIDE PIPE, SDR 35 3	8-INCH DUCTILE IRON PIPE, CLASS 52	12-INCH DUCTILE IRON PIPE, CLASS 52	24-INCH REINFORCED CONCRETE PIPE, CLASS III	36-INCH REINFORCED CONCRETE PIPE, CLASS III	CONCRETE COLLAR FOR 24-INCH DRAIN CONNECTION	CONCRETE COLLAR FOR 36-INCH DRAIN CONNECTION	24-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 24-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	30-INCH REINFORCED CPNCRETE PIPE, CLASS III, OR 30-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	36-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 36-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	LINED DRAINAGE DITCH, TYPE "A"	LINED DRAINAGE DITCH, TYPE "B"	LINED DRAINAGE DITCH, TYPE "C"	LINED DRAINAGE DITCH, TYPE "D"	LINED DRAINAGE DITCH, TYPE "E"
			UNIT		C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
	A-10	TYPE A2 GDI			33 3																	
		24" PIPE	A-10	A-11	132 3											75						
AC7.8	E	DITCH																				
	E-1	DITCH																				
		24" PIPE	A-10	A-11												26 3						
	A-11	TYPE A2 GDI			62 3																	
		24" PIPE	A-1 3	DO-1	19 3											12 3						
	DO-1	DRAIN OUTLET	3																			
	B-1	TYPE A-3 GDI			65 3																	
		24" PIPE	B-1	DO-2	16 3	3 3										12 3						
	DO-2	DRAIN OUTLET																				
	C-1	TYPE A-3 GDI			40 3																	
		24" PIPE	C-1	DO-3	9 3	3 3										12 3						
	DO-3	DRAIN OUTLET																				
	D-1	TYPE A-4 GDI			66 3																	
		24" PIPE	D-1	DO-4	13 3	3 3										12 3						
	DO-4	DRAIN OUTLET																				
AC7.9	V-1	TYPE B-4 GDI																				
		8" PIPE	V-1	V-2						35 3												
	V-2	TYPE B-8 GDI																				
		12" PIPE	V-2	V-3							24 3											
	V-3	TYPE B-4 GDI																				
		8" PIPE								4 3												
		12" PIPE			4 3	8 3					41 3											
	V-4	TYPE B-6 GDI																				
		8" PIPE			20 3					57 3												
	V-5	TYPE B-4 GDI																				
		8" PIPE								57 3												
	V-6	TYPE B-4 GDI																				
SUB-TOTAL THIS SHEET					479 3	17 3				153 3	65 3					149 3						

DATE	REVISION
6/20/03	3 Revised Quantities. Added Item.

SURVEY PLOTTED BY
DRAWN BY
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QUANTITIES BY
CHECKED BY
DATE
ORIGINAL PLAN
NOTE BOOK

RMTC JOB NO.: 1-19369-0E

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 161	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																			
			ITEM NO.																					
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	LINED DRAINAGE DITCH, TYPE "F"	LINED DRAINAGE DITCH, TYPE "G"	TYPE A STORM DRAIN MANHOLE, 5 FT TO 5.99 FT 3	TYPE A STORM DRAIN MANHOLE, 6 FT TO 6.99 FT 3	TYPE A STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	TYPE A STORM DRAIN MANHOLE, 10 FT TO 10.99 FT	TYPE B STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	TYPE E STORM DRAIN MANHOLE, 5 FT TO 5.99 FT 3	TYPE E STORM DRAIN MANHOLE, 6 FT TO 6.99 FT 3	SPECIAL STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	SPECIAL STORM DRAIN MANHOLE, 5 FT TO 5.99 FT	SPECIAL STORM DRAIN MANHOLE, 6 FT TO 6.99 FT	SPECIAL STORM DRAIN MANHOLE, 7 FT TO 7.99 FT	SPECIAL STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	SPECIAL STORM DRAIN MANHOLE, 15 FT TO 15.99 FT	TYPE D CATCH BASIN, 4 FT TO 4.99 FT	TYPE D CATCH BASIN, 5 FT TO 5.99 FT	COLUMN DRAIN CLEANOUT	DRAIN CLEANOUT TO GRADE	TRENCH DRAIN	GROUTED RUBBLE PAVING FOR 6' X 6' GRP PAD
		UNIT			LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	C.Y.
	A-10	TYPE A2 GDI																							
		24" PIPE	A-10	A-11																					
AC7.8	E	DITCH			59 3	10																			
	E-1	DITCH			35																				
		24" PIPE	A-10	A-11																					
	A-11	TYPE A2 GDI																							
		24" PIPE																							
	DO-1	DRAIN OUTLET	A-1	DO-1																					2.4 3
	B-1	TYPE A-3 GDI																							
		24" PIPE	B-1	DO-2																					
	DO-2	DRAIN OUTLET																							2.4 3
	C-1	TYPE A-3 GDI																							
		24" PIPE	C-1	DO-3																					
	DO-3	DRAIN OUTLET																							
	D-1	TYPE A-4 GDI																							2.4 3
		24" PIPE	D-1	DO-4																					
	DO-4	DRAIN OUTLET																							
AC7.9	V-1	TYPE B-4 GDI																					1 3	3	
		8" PIPE	V-1	V-2																					
	V-2	TYPE B-8 GDI																							
		12" PIPE	V-2	V-3																					
	V-3	TYPE B-4 GDI																					1 3	3	
		8" PIPE																							
		12" PIPE																							
	V-4	TYPE B-6 GDI																					2 3	3	
		8" PIPE																							
	V-5	TYPE B-4 GDI																					2 3	3	
		8" PIPE																							
	V-6	TYPE B-4 GDI																					2 3	3	
SUB-TOTAL THIS SHEET					94 3	10																	8 3	3	7.2 3

DATE	REVISION
6/20/03	3 Revised Quantities. Added and Deleted Items.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

RMTC JOB NO.: 1-19369-0E

SHEET No. AC7.50 OF 350 SHEETS

ADD. 161

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 162	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																				
			ITEM NO.																						
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	3 TYPE A1 GRATED DROP INLET, 4 FT TO 4.99 FT	TYPE A1 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A1 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A1 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A1 GRATED DROP INLET, 8 FT TO 8.99 FT	TYPE A1 GRATED DROP INLET, 10 FT TO 10.99 FT	3 TYPE A1 GRATED DROP INLET, 14 FT TO 14.99 FT	3 TYPE A2 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A2 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A2 GRATED DROP INLET, 7 FT TO 7.99 FT	3 TYPE A2 GRATED DROP INLET, 13 FT TO 13.99 FT	3 TYPE A3 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A3 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE A3 GRATED DROP INLET, 12 FT TO 12.99 FT	TYPE A4 GRATED DROP INLET, 10 FT TO 10.99 FT	TYPE A5 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE B4 STEEL FRAME AND GRATE	TYPE B6 STEEL FRAME AND GRATE	TYPE B8 STEEL FRAME AND GRATE			
	UNIT				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
	A-10	TYPE A2 GDI										1 3													
		24" PIPE	A-10	A-11																					
AC7.8	E	DITCH																							
	E-1	DITCH																							
		24" PIPE	A-10	A-11																					
	A-11	TYPE A2 GDI													1										
		24" PIPE																							
	DO-1	DRAIN OUTLET	A-1	DO-1																					
	B-1	TYPE A-3 GDI																1							
		24" PIPE	B-1	DO-2																					
	DO-2	DRAIN OUTLET																							
	C-1	TYPE A-3 GDI														1 3									
		24" PIPE	C-1	DO-3																					
	DO-3	DRAIN OUTLET																							
	D-1	TYPE A-4 GDI																			1				
		24" PIPE	D-1	DO-4																					
	DO-4	DRAIN OUTLET																							
AC7.9	V-1	TYPE B-4 GDI																					1		
		8" PIPE	V-1	V-2																					
	V-2	TYPE B-8 GDI																						1	
		12" PIPE	V-2	V-3																					
	V-3	TYPE B-4 GDI																					1		
		8" PIPE																							
		12" PIPE																							
	V-4	TYPE B-6 GDI																						1	
		8" PIPE																							
	V-5	TYPE B-4 GDI																					1		
		8" PIPE																							
	V-6	TYPE B-4 GDI																					1		
SUB-TOTAL THIS SHEET												1 3			1	1 3		1	1		4	1	1		

6/20/03	3 Revised Quantities. Deleted Items.
DATE	REVISION

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

RMTC JOB NO.: 1-19369-0E

ADD. 162

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 163	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES									
			ITEM NO.										653	
													.0010	
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	INLET STRUCTURE, 2 FT TO 2.99 FT	INLET STRUCTURE, 11 FT TO 11.99 FT	COLUMN OUTLET STRUCTURE, TYPE A	COLUMN OUTLET STRUCTURE, TYPE B	COLUMN OUTLET STRUCTURE, TYPE C	COLUMN OUTLET SWALE, TYPE A	COLUMN OUTLET SWALE, TYPE B	COLUMN OUTLET SWALE, TYPE C	162-INCH STRUCTURAL PLATE	③
			UNIT		EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	L.S.	
	A-10	TYPE A2 GDI												
		24" PIPE	A-10	A-11										
AC7.8	E	DITCH											1	
	E-1	DITCH												
		24" PIPE	A-10	A-11										
	A-11	TYPE A2 GDI												
		24" PIPE												
	DO-1	DRAIN OUTLET	A-1	DO-1										
	B-1	TYPE A-3 GDI												
		24" PIPE	B-1	DO-2										
	DO-2	DRAIN OUTLET												
	C-1	TYPE A-3 GDI												
		24" PIPE	C-1	DO-3										
	DO-3	DRAIN OUTLET												
	D-1	TYPE A-4 GDI												
		24" PIPE	D-1	DO-4										
	DO-4	DRAIN OUTLET												
AC7.9	V-1	TYPE B-4 GDI												
		8" PIPE	V-1	V-2										
	V-2	TYPE B-8 GDI												
		12" PIPE	V-2	V-3										
	V-3	TYPE B-4 GDI												
		8" PIPE												
		12" PIPE												
	V-4	TYPE B-6 GDI												
		8" PIPE												
	V-5	TYPE B-4 GDI												
		8" PIPE												
	V-6	TYPE B-4 GDI												
SUB-TOTAL THIS SHEET													1	

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
DATE
ORIGINAL PLAN
NOTE BOOK
Nonstandard

6/20/03	③ Deleted Item.
DATE	REVISION

RMTC JOB NO.: 1-19369-0E

ADD. 163

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 164	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																	
			ITEM NO.																			
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	BED COURSE MATERIAL FOR CULVERT	6-INCH POLYVINYL CHLORIDE PIPE, SDR 35	8-INCH POLYVINYL CHLORIDE PIPE, SDR 35	12-INCH POLYVINYL CHLORIDE PIPE, SDR 35 △3	8-INCH DUCTILE IRON PIPE, CLASS 52	12-INCH DUCTILE IRON PIPE, CLASS 52	24-INCH REINFORCED CONCRETE PIPE, CLASS III	36-INCH REINFORCED CONCRETE PIPE, CLASS III	CONCRETE COLLAR FOR 24-INCH DRAIN CONNECTION	CONCRETE COLLAR FOR 36-INCH DRAIN CONNECTION	24-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 24-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	30-INCH REINFORCED CPNCRETE PIPE, CLASS III, OR 30-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	36-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 36-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	LINED DRAINAGE DITCH, TYPE "A"	LINED DRAINAGE DITCH, TYPE "B"	LINED DRAINAGE DITCH, TYPE "C"	LINED DRAINAGE DITCH, TYPE "D"	LINED DRAINAGE DITCH, TYPE "E"
		UNIT			C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
		8" PIPE								58												
AC7.10	V-7	TYPE B-4 GDI																				
		8" PIPE								61												
	V-8	TYPE B-4 GDI																				
		8" PIPE			7 △3					65												
	V-9	TYPE B-4 GDI																				
		8" PIPE			5 △3					76												
	V-10	TYPE B-4 GDI																				
		8" PIPE			6 △3					77 △3												
	V-11	TYPE B-4 GDI																				
		8" PIPE			35 △3	7 △3				73 △3												
AC7.11	V-12	TYPE B-4 GDI																				
		8" PIPE			9 △3					76												
	V-13	TYPE B-4 GDI																				
		8" PIPE								84												
	F	DITCH																		197 △3		
	G	DITCH																		96 △3		
		CONCRETE COLLAR												1								
		24" PIPE		E-1	55 △3							21 △3										
	E-1	TYPE A5 GDI																				
		CONCRETE COLLAR													1							
		36" PIPE		E-1	220 △3								36 △3									
	E-1	TYPE A5 GDI			246 △3																	
	G-1	TYPE A1 GDI			34 △5																	
		24" PIPE	G-1	E-1	21 △3	8 △3										7						
	E-1	TYPE A5 GDI																				
	H-1	TYPE A1 GDI			26 △5																	
		24" PIPE	H-1	H-2	55 △3	12 △3										37						
SUB-TOTAL THIS SHEET					719 △5	27 △3				570 △3		21 △3	36 △3	1	1	44				293 △3		

DATE	REVISION
10/16/03	△5 Revised Quantities.
6/20/03	△3 Revised Quantities. Added Item.

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

RMTC JOB NO.: 1-19369-0E

SHEET No. AC7.53 OF 350 SHEETS

ADD. 164

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 165	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																		
			ITEM NO.																				
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	LINED DRAINAGE DITCH, TYPE "F"	LINED DRAINAGE DITCH, TYPE "G"	TYPE A STORM DRAIN MANHOLE, 5 FT TO 5.99 FT 3	TYPE A STORM DRAIN MANHOLE, 6 FT TO 6.99 FT 3	TYPE A STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	TYPE A STORM DRAIN MANHOLE, 10 FT TO 10.99 FT	TYPE B STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	TYPE E STORM DRAIN MANHOLE, 5 FT TO 5.99 FT 3	TYPE E STORM DRAIN MANHOLE, 6 FT TO 6.99 FT 3	SPECIAL STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	SPECIAL STORM DRAIN MANHOLE, 5 FT TO 5.99 FT	SPECIAL STORM DRAIN MANHOLE, 6 FT TO 6.99 FT	SPECIAL STORM DRAIN MANHOLE, 7 FT TO 7.99 FT	SPECIAL STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	SPECIAL STORM DRAIN MANHOLE, 15 FT TO 15.99 FT	TYPE D CATCH BASIN, 4 FT TO 4.99 FT	TYPE D CATCH BASIN, 5 FT TO 5.99 FT	COLUMN DRAIN CLEANOUT	DRAIN CLEANOUT TO GRADE	TRENCH DRAIN	GROUTED RUBBLE PAVING FOR 6' X 6' GRP PAD
		UNIT			LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	C.Y.
		8" PIPE																						
AC7.10	V-7	TYPE B-4 GDI																				2 3	3	
		8" PIPE																						
	V-8	TYPE B-4 GDI																				2 3	3	
		8" PIPE																						
	V-9	TYPE B-4 GDI																				2 3	3	
		8" PIPE																						
	V-10	TYPE B-4 GDI																				2 3	3	
		8" PIPE																						
	V-11	TYPE B-4 GDI																				2 3	3	
		8" PIPE																						
AC7.11	V-12	TYPE B-4 GDI																				2 3	3	
		8" PIPE																						
	V-13	TYPE B-4 GDI																				2 3	3	
		8" PIPE																						
	F	DITCH																						
	G	DITCH																						
		CONCRETE COLLAR																						
		24" PIPE		E-1																				
	E-1	TYPE A5 GDI																						
		CONCRETE COLLAR																						
		36" PIPE		E-1																				
	E-1	TYPE A5 GDI																						
	G-1	TYPE A1 GDI																						
		24" PIPE	G-1	E-1																				
	E-1	TYPE A5 GDI																						
	H-1	TYPE A1 GDI																						
		24" PIPE	H-1	H-2																				
		SUB-TOTAL THIS SHEET																				14 3	3	

DATE	REVISION
6/20/03	3 Revised Quantities. Added and Deleted Items.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

SHEET No. AC7.54 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 165

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 166	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																					
			ITEM NO.																							
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	5 TYPE A1 GRATED DROP INLET, 4 FT TO 4.99 FT	TYPE A1 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A1 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A1 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A1 GRATED DROP INLET, 8 FT TO 8.99 FT	TYPE A1 GRATED DROP INLET, 10 FT TO 10.99 FT	5 TYPE A1 GRATED DROP INLET, 14 FT TO 14.99 FT	5 TYPE A2 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A2 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A2 GRATED DROP INLET, 7 FT TO 7.99 FT	5 TYPE A2 GRATED DROP INLET, 13 FT TO 13.99 FT	5 TYPE A3 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A3 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE A3 GRATED DROP INLET, 12 FT TO 12.99 FT	TYPE A4 GRATED DROP INLET, 10 FT TO 10.99 FT	TYPE A5 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE B4 STEEL FRAME AND GRATE	TYPE B6 STEEL FRAME AND GRATE	TYPE B8 STEEL FRAME AND GRATE			
		UNIT			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
		8" PIPE																								
AC7.10	V-7	TYPE B-4 GDI																					1			
		8" PIPE																								
	V-8	TYPE B-4 GDI																					1			
		8" PIPE																								
	V-9	TYPE B-4 GDI																					1			
		8" PIPE																								
	V-10	TYPE B-4 GDI																					1			
		8" PIPE																								
	V-11	TYPE B-4 GDI																					1			
		8" PIPE																								
AC7.11	V-12	TYPE B-4 GDI																					1			
		8" PIPE																								
	V-13	TYPE B-4 GDI																					1			
		8" PIPE																								
	F	DITCH																								
	G	DITCH																								
		CONCRETE COLLAR																								
		24" PIPE		E-1																						
	E-1	TYPE A5 GDI																								
		CONCRETE COLLAR																								
		36" PIPE		E-1																						
	E-1	TYPE A5 GDI																								
	G-1	TYPE A1 GDI					1																			
		24" PIPE	G-1	E-1																						
	E-1	TYPE A5 GDI																								
	H-1	TYPE A1 GDI				5 1																				
		24" PIPE	H-1	H-2																						
		SUB-TOTAL THIS SHEET				5 1	2																7			

DATE	REVISION
10/16/03	5 Revised Quantities.
6/20/03	5 Deleted Items.

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

RMTC JOB NO.: 1-19369-0E

SHEET No. AC7.55 OF 350 SHEETS

ADD. 166

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 167	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES									
			ITEM NO.										653	
													.0010	
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	INLET STRUCTURE, 2 FT TO 2.99 FT	INLET STRUCTURE, 11 FT TO 11.99 FT	COLUMN OUTLET STRUCTURE, TYPE A	COLUMN OUTLET STRUCTURE, TYPE B	COLUMN OUTLET STRUCTURE, TYPE C	COLUMN OUTLET SWALE, TYPE A	COLUMN OUTLET SWALE, TYPE B	COLUMN OUTLET SWALE, TYPE C	162-INCH STRUCTURAL PLATE	③
			UNIT		EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	L.S.	
		8" PIPE												
AC7.10	V-7	TYPE B-4 GDI												
		8" PIPE												
	V-8	TYPE B-4 GDI												
		8" PIPE												
	V-9	TYPE B-4 GDI												
		8" PIPE												
	V-10	TYPE B-4 GDI												
		8" PIPE												
	V-11	TYPE B-4 GDI												
		8" PIPE												
AC7.11	V-12	TYPE B-4 GDI												
		8" PIPE												
	V-13	TYPE B-4 GDI												
		8" PIPE												
	F	DITCH												
	G	DITCH												
		CONCRETE COLLAR												
		24" PIPE		E-1										
	E-1	TYPE A5 GDI												
		CONCRETE COLLAR												
		36" PIPE		E-1										
	E-1	TYPE A5 GDI												
	G-1	TYPE A1 GDI												
		24" PIPE	G-1	E-1										
	E-1	TYPE A5 GDI												
	H-1	TYPE A1 GDI												
		24" PIPE	H-1	H-2										
SUB-TOTAL THIS SHEET														

DATE	REVISION
6/20/03	③ Deleted Item.

ORIGINAL PLAN

NOTE BOOK No.

SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

RMTC JOB NO.: 1-19369-0E

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 168	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																	
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	ITEM NO. FROM STRUCTURES	ITEM NO. TO STRUCTURES	STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	BED COURSE MATERIAL FOR CULVERT	6-INCH POLYVINYL CHLORIDE PIPE, SDR 35	8-INCH POLYVINYL CHLORIDE PIPE, SDR 35	12-INCH POLYVINYL CHLORIDE PIPE, SDR 35 △3	8-INCH DUCTILE IRON PIPE, CLASS 52	12-INCH DUCTILE IRON PIPE, CLASS 52	24-INCH REINFORCED CONCRETE PIPE, CLASS III	36-INCH REINFORCED CONCRETE PIPE, CLASS III	CONCRETE COLLAR FOR 24-INCH DRAIN CONNECTION	CONCRETE COLLAR FOR 36-INCH DRAIN CONNECTION	24-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 24-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	30-INCH REINFORCED CPNCRETE PIPE, CLASS III, OR 30-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	36-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 36-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	LINED DRAINAGE DITCH, TYPE "A"	LINED DRAINAGE DITCH, TYPE "B"	LINED DRAINAGE DITCH, TYPE "C"	LINED DRAINAGE DITCH, TYPE "D"	LINED DRAINAGE DITCH, TYPE "E"
			UNIT		C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
	H-2	TYPE A1 GDI			65 △5																	
		24" PIPE	H-2	E-2												7 △3						
	E-2	TYPE A3 GDI																				
	E-1	TYPE A5 GDI																				
		36" PIPE	E-1	E-2	5 △3													107				
	E-2	TYPE A3 GDI			73 △3																	
		36" PIPE	E-2	E-3	121 △3													63				
	E-3	TYPE A2 GDI			40 △3																	
		36" PIPE			221 △3	67 △3												30				
AC7.12		36" PIPE																75				
	F	DITCH																	500			
	G	DITCH																	338 △3			
	H	DITCH																	161 △3			
	E-4	TYPE A2 GDI			45 △3																	
		36" PIPE	E-4	E-5	216 △3													105				
	E-5	TYPE A2 GDI			38 △3																	
		24" PIPE	E-5	E-6	178 △3											120						
	E-6	TYPE A2 GDI			36 △3																	
		24" PIPE	E-6	E-7	128 △3											91 △3						
	E-7	TYPE A2 GDI			35 △3																	
		24" PIPE	E-7	E-8	147 △3	254 △3										105						
	E-8	TYPE A2 GDI			35 △3																	
		24" PIPE △3														4 △3						
	I-1	exist sdmh																				
		36" PIPE	I-1	I-2	110 △3	17 △3												50				
	I-2	SPECIAL SDMH			76 △3																	
		36" PIPE	I-2	E-4	20 △3													13 △3				
	E-4	TYPE A2 GDI			45 △3																	
	J-1	TYPE A1 GDI			28 △5																	
SUB-TOTAL THIS SHEET					1,662 △5	338 △3										327 △3	△3	443 △3	999 △3			

DATE	REVISION
10/16/03	△5 Revised Quantities.
6/20/03	△3 Revised Quantities. Added Item.

SURVEY PLOTTED BY
DRAWN BY
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QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

RMTC JOB NO.: 1-19369-0E

ADD. 168

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 169	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																		
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	ITEM NO. FROM STRUCTURES	ITEM NO. TO STRUCTURES	LINED DRAINAGE DITCH, TYPE "F"	LINED DRAINAGE DITCH, TYPE "G"	TYPE A STORM DRAIN MANHOLE, 5 FT TO 5.99 FT △3	TYPE A STORM DRAIN MANHOLE, 6 FT TO 6.99 FT △3	TYPE A STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	TYPE A STORM DRAIN MANHOLE, 10 FT TO 10.99 FT	TYPE B STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	TYPE E STORM DRAIN MANHOLE, 5 FT TO 5.99 FT △3	TYPE E STORM DRAIN MANHOLE, 6 FT TO 6.99 FT △3	SPECIAL STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	SPECIAL STORM DRAIN MANHOLE, 5 FT TO 5.99 FT	SPECIAL STORM DRAIN MANHOLE, 6 FT TO 6.99 FT	SPECIAL STORM DRAIN MANHOLE, 7 FT TO 7.99 FT	SPECIAL STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	SPECIAL STORM DRAIN MANHOLE, 15 FT TO 15.99 FT	TYPE D CATCH BASIN, 4 FT TO 4.99 FT	TYPE D CATCH BASIN, 5 FT TO 5.99 FT	COLUMN DRAIN CLEANOUT	DRAIN CLEANOUT TO GRADE	TRENCH DRAIN	GROUTED RUBBLE PAVING FOR 6' X 6' GRP PAD
		UNIT			LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	C.Y.
	H-2	TYPE A1 GDI																							
		24" PIPE	H-2	E-2																					
	E-2	TYPE A3 GDI																							
	E-1	TYPE A5 GDI																							
		36" PIPE	E-1	E-2																					
	E-2	TYPE A3 GDI																							
		36" PIPE	E-2	E-3																					
	E-3	TYPE A2 GDI																							
		36" PIPE																							
AC7.12		36" PIPE																							
	F	DITCH																							
	G	DITCH																							
	H	DITCH																							
	E-4	TYPE A2 GDI																							
		36" PIPE	E-4	E-5																					
	E-5	TYPE A2 GDI																							
		24" PIPE	E-5	E-6																					
	E-6	TYPE A2 GDI																							
		24" PIPE	E-6	E-7																					
	E-7	TYPE A2 GDI																							
		24" PIPE	E-7	E-8																					
	E-8	TYPE A2 GDI																							
		24" PIPE																							
	I-1	exist sdmh																							
		36" PIPE	I-1	I-2																					
	I-2	SPECIAL SDMH																			1				
		36" PIPE	I-2	E-4																					
	E-4	TYPE A2 GDI																							
	J-1	TYPE A1 GDI																							
SUB-TOTAL THIS SHEET																					1				

DATE	REVISION
6/20/03	△3 Added and Deleted Items.

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

RMTC JOB NO.: 1-19369-0E

ADD. 169

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 170	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																					
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	ITEM NO. FROM STRUCTURES	ITEM NO. TO STRUCTURES	5 TYPE A1 GRATED DROP INLET, 4 FT TO 4.99 FT	TYPE A1 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A1 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A1 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A1 GRATED DROP INLET, 8 FT TO 8.99 FT	TYPE A1 GRATED DROP INLET, 10 FT TO 10.99 FT	5 TYPE A1 GRATED DROP INLET, 14 FT TO 14.99 FT	5 TYPE A2 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A2 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A2 GRATED DROP INLET, 7 FT TO 7.99 FT	5 TYPE A2 GRATED DROP INLET, 13 FT TO 13.99 FT	5 TYPE A3 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A3 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE A3 GRATED DROP INLET, 12 FT TO 12.99 FT	TYPE A4 GRATED DROP INLET, 10 FT TO 10.99 FT	TYPE A5 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE B4 STEEL FRAME AND GRATE	TYPE B6 STEEL FRAME AND GRATE	TYPE B8 STEEL FRAME AND GRATE			
		UNIT			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
	H-2	TYPE A1 GDI									1															
		24" PIPE	H-2	E-2																						
	E-2	TYPE A3 GDI																								
	E-1	TYPE A5 GDI																			1					
		36" PIPE	E-1	E-2																						
	E-2	TYPE A3 GDI														1										
		36" PIPE	E-2	E-3																						
	E-3	TYPE A2 GDI												1												
		36" PIPE																								
AC7.12		36" PIPE																								
	F	DITCH																								
	G	DITCH																								
	H	DITCH																								
	E-4	TYPE A2 GDI												5		1 5										
		36" PIPE	E-4	E-5																						
	E-5	TYPE A2 GDI										5	1 5													
		24" PIPE	E-5	E-6																						
	E-6	TYPE A2 GDI										1 5														
		24" PIPE	E-6	E-7																						
	E-7	TYPE A2 GDI										1														
		24" PIPE	E-7	E-8																						
	E-8	TYPE A2 GDI										1 5														
		24" PIPE																								
	I-1	exist sdmh																								
		36" PIPE	I-1	I-2																						
	I-2	SPECIAL SDMH																								
		36" PIPE	I-2	E-4																						
	E-4	TYPE A2 GDI																								
	J-1	TYPE A1 GDI				5	1																			
SUB-TOTAL THIS SHEET						5	1				1	3 5	1 5	1 5		2 5				1						

DATE	REVISION
10/16/03	5 Revised Quantities. Deleted Items.
6/20/03	5 Revised Quantities. Deleted Items.

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

RMTC JOB NO.: 1-19369-0E

ADD. 170

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 171	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES								
			ITEM NO.									653	
												.0010	
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	INLET STRUCTURE 2 FT TO 2.99 FT	INLET STRUCTURE 11 FT TO 11.99 FT	COLUMN OUTLET STRUCTURE, TYPE A	COLUMN OUTLET STRUCTURE, TYPE B	COLUMN OUTLET STRUCTURE, TYPE C	COLUMN OUTLET SWALE, TYPE A	COLUMN OUTLET SWALE, TYPE B	COLUMN OUTLET SWALE, TYPE C	162-INCH STRUCTURAL PLATE	
			UNIT		EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	L.S.	
	H-2	TYPE A1 GDI												
		24" PIPE	H-2	E-2										
	E-2	TYPE A3 GDI												
	E-1	TYPE A5 GDI												
		36" PIPE	E-1	E-2										
	E-2	TYPE A3 GDI												
		36" PIPE	E-2	E-3										
	E-3	TYPE A2 GDI												
		36" PIPE												
AC7.12		36" PIPE												
	F	DITCH												
	G	DITCH												
	H	DITCH												
	E-4	TYPE A2 GDI												
		36" PIPE	E-4	E-5										
	E-5	TYPE A2 GDI												
		24" PIPE	E-5	E-6										
	E-6	TYPE A2 GDI												
		24" PIPE	E-6	E-7										
	E-7	TYPE A2 GDI												
		24" PIPE	E-7	E-8										
	E-8	TYPE A2 GDI												
		24" PIPE												
	I-1	exist sdmh												
		36" PIPE	I-1	I-2										
	I-2	SPECIAL SDMH												
		36" PIPE	I-2	E-4										
	E-4	TYPE A2 GDI												
	J-1	TYPE A1 GDI												
SUB-TOTAL THIS SHEET														

△3

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

DATE	REVISION
6/20/03	△3 Deleted Item.

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 172	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																		
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	ITEM NO. FROM STRUCTURES	ITEM NO. TO STRUCTURES	STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	BED COURSE MATERIAL FOR CULVERT	6-INCH POLYVINYL CHLORIDE PIPE, SDR 35	8-INCH POLYVINYL CHLORIDE PIPE, SDR 35	12-INCH POLYVINYL CHLORIDE PIPE, SDR 35 3	8-INCH DUCTILE IRON PIPE, CLASS 52	12-INCH DUCTILE IRON PIPE, CLASS 52	24-INCH REINFORCED CONCRETE PIPE, CLASS III	36-INCH REINFORCED CONCRETE PIPE, CLASS III	CONCRETE COLLAR FOR 24-INCH DRAIN CONNECTION	CONCRETE COLLAR FOR 36-INCH DRAIN CONNECTION	24-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 24-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	30-INCH REINFORCED CPNCRETE PIPE, CLASS III, OR 30-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	36-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 36-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	LINED DRAINAGE DITCH, TYPE "A"	LINED DRAINAGE DITCH, TYPE "B"	LINED DRAINAGE DITCH, TYPE "C"	LINED DRAINAGE DITCH, TYPE "D"	LINED DRAINAGE DITCH, TYPE "E"
			UNIT		C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
		24" PIPE	J-1	J-2	64 3											47 3							
	J-2	TYPE A1 GDI			34 5																		
		24" PIPE	J-2	E-6	3 3	15 3										7 3							
	E-6	TYPE A2 GDI																					
AC7.13	H	DITCH																	112 3				
	F	DITCH																	500				
		24" PIPE	E-8 3 5	E-9	154 3 5											99 3							
	E-9	TYPE A2 GDI			35 3																		
		24" PIPE	E-9	E-10	307 3 5											207 3							
	E-10	TYPE A SDMH			31 3																		
		24" PIPE	E-10	E-11	5 3											8							
	E-11	TYPE A1 GDI			33 5																		
	K-1	TYPE A1 GDI			28 5																		
		24" PIPE	K-1	K-2	26 3	8 3										22							
	K-2	TYPE A1 GDI			28 5																		
		24" PIPE	K-2	E-9												7 3							
	E-9	TYPE A2 GDI																					
AC7.14	F	DITCH																	50				
AC7.15	A	DITCH																		411 3			
	B	DITCH																			410 3 5		
AC7.16		6" PIPE		L-1			64																
		COTG																					
	L-1	TYPE E SDMH			25 3																		
		*12" PIPE		L-1	20 3	4 3			15 3 5		3												
		24" PIPE	L-1	L-2	48 3	23 3										47							
	L-2	TYPE E SDMH			30 3																		
		24" PIPE	L-2		38 3											36							
		exist. cb																					
		COTG																					
SUB-TOTAL THIS SHEET					909 3 5	50 3	64		15 3		3					480 3			662 3	411 3	410 3		

DATE	REVISION
10/16/03	3 5 Revised Quantities.
6/20/03	3 Revised Quantities. Added Item.

SURVEY PLOTTED BY ____ DATE
DRAWN BY ____
TRACED BY ____
DESIGNED BY ____
QUANTITIES BY ____
CHECKED BY ____

ORIGINAL PLAN
NOTE BOOK
No.

SHEET No. AC7.61 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 172

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 173	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																			
			ITEM NO.																					
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	LINED DRAINAGE DITCH, TYPE "F"	LINED DRAINAGE DITCH, TYPE "G"	TYPE A STORM DRAIN MANHOLE, 5 FT TO 5.99 FT 3	TYPE A STORM DRAIN MANHOLE, 6 FT TO 6.99 FT 3	TYPE A STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	TYPE A STORM DRAIN MANHOLE, 10 FT TO 10.99 FT	TYPE B STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	TYPE E STORM DRAIN MANHOLE, 5 FT TO 5.99 FT 3	TYPE E STORM DRAIN MANHOLE, 6 FT TO 6.99 FT 3	SPECIAL STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	SPECIAL STORM DRAIN MANHOLE, 5 FT TO 5.99 FT	SPECIAL STORM DRAIN MANHOLE, 6 FT TO 6.99 FT	SPECIAL STORM DRAIN MANHOLE, 7 FT TO 7.99 FT	SPECIAL STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	SPECIAL STORM DRAIN MANHOLE, 15 FT TO 15.99 FT	TYPE D CATCH BASIN, 4 FT TO 4.99 FT	TYPE D CATCH BASIN, 5 FT TO 5.99 FT	COLUMN DRAIN CLEANOUT	DRAIN CLEANOUT TO GRADE	TRENCH DRAIN	GROUTED RUBBLE PAVING FOR 6' X 6' GRP PAD
		UNIT			LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	C.Y.
		24" PIPE	J-1	J-2																					
	J-2	TYPE A1 GDI																							
		24" PIPE	J-2	E-6																					
	E-6	TYPE A2 GDI																							
AC7.13	H	DITCH																							
	F	DITCH																							
		24" PIPE	E-2	E-9																					
	E-9	TYPE A2 GDI																							
		24" PIPE	E-9	E-10																					
	E-10	TYPE A SDMH					1 3																		
		24" PIPE	E-10	E-11																					
	E-11	TYPE A1 GDI																							
	K-1	TYPE A1 GDI																							
		24" PIPE	K-1	K-2																					
	K-2	TYPE A1 GDI																							
		24" PIPE	K-2	E-9																					
	E-9	TYPE A2 GDI																							
AC7.14	F	DITCH																							
AC7.15	A	DITCH																							
	B	DITCH																							
AC7.16		6" PIPE		L-1																					
		COTG																							1
	L-1	TYPE E SDMH										1 3													
		12" PIPE		L-1																					
		24" PIPE	L-1	L-2																					
	L-2	TYPE E SDMH											1												
		24" PIPE	L-2																						
		exist. cb																							
		COTG																							1
SUB-TOTAL THIS SHEET							1 3					1 3	1												2

DATE	REVISION
6/20/03	3 Revised Quantities. Added and Deleted Items.

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

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 174	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																				
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	ITEM NO. FROM STRUCTURES	ITEM NO. TO STRUCTURES	TYPE A1 GRATED DROP INLET, 4 FT TO 4.99 FT	TYPE A1 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A1 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A1 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A1 GRATED DROP INLET, 8 FT TO 8.99 FT	TYPE A1 GRATED DROP INLET, 10 FT TO 10.99 FT	TYPE A1 GRATED DROP INLET, 14 FT TO 14.99 FT	TYPE A2 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A2 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A2 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A2 GRATED DROP INLET, 13 FT TO 13.99 FT	TYPE A3 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A3 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE A3 GRATED DROP INLET, 12 FT TO 12.99 FT	TYPE A4 GRATED DROP INLET, 10 FT TO 10.99 FT	TYPE A5 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE B4 STEEL FRAME AND GRATE	TYPE B6 STEEL FRAME AND GRATE	TYPE B8 STEEL FRAME AND GRATE			
		UNIT			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
		24" PIPE	J-1	J-2																					
	J-2	TYPE A1 GDI						1																	
		24" PIPE	J-2	E-6																					
	E-6	TYPE A2 GDI																							
AC7.13	H	DITCH																							
	F	DITCH																							
		24" PIPE	E-2	E-9																					
	E-9	TYPE A2 GDI										1													
		24" PIPE	E-9	E-10																					
	E-10	TYPE A SDMH																							
		24" PIPE	E-10	E-11																					
	E-11	TYPE A1 GDI							1																
	K-1	TYPE A1 GDI			5			1 5																	
		24" PIPE	K-1	K-2																					
	K-2	TYPE A1 GDI				1																			
		24" PIPE	K-2	E-9																					
	E-9	TYPE A2 GDI																							
AC7.14	F	DITCH																							
AC7.15	A	DITCH																							
	B	DITCH																							
AC7.16		6" PIPE		L-1																					
		COTG																							
	L-1	TYPE E SDMH																							
		12" PIPE		L-1																					
		24" PIPE	L-1	L-2																					
	L-2	TYPE E SDMH																							
		24" PIPE	L-2																						
		exist. cb																							
		COTG																							
SUB-TOTAL THIS SHEET					5	1		2 5	1			1													

DATE	REVISION
10/16/03	5 Revised Quantites.
6/20/03	5 Deleted Items.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 175	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES									
			ITEM NO.										653	
													.0010	
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	INLET STRUCTURE 2 FT TO 2.99 FT	INLET STRUCTURE 11 FT TO 11.99 FT	COLUMN OUTLET STRUCTURE, TYPE A	COLUMN OUTLET STRUCTURE, TYPE B	COLUMN OUTLET STRUCTURE, TYPE C	COLUMN OUTLET SWALE, TYPE A	COLUMN OUTLET SWALE, TYPE B	COLUMN OUTLET SWALE, TYPE C	162-INCH STRUCTURAL PLATE	⚠3
			UNIT		EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	L.S.	
		24" PIPE	J-1	J-2										
	J-2	TYPE A1 GDI												
		24" PIPE	J-2	E-6										
	E-6	TYPE A2 GDI												
AC7.13	H	DITCH												
	F	DITCH												
		24" PIPE	E-2	E-9										
	E-9	TYPE A2 GDI												
		24" PIPE	E-9	E-10										
	E-10	TYPE A SDMH												
		24" PIPE	E-10	E-11										
	E-11	TYPE A1 GDI												
	K-1	TYPE A1 GDI												
		24" PIPE	K-1	K-2										
	K-2	TYPE A1 GDI												
		24" PIPE	K-2	E-9										
	E-9	TYPE A2 GDI												
AC7.14	F	DITCH												
AC7.15	A	DITCH												
	B	DITCH												
AC7.16		6" PIPE		L-1										
		COTG												
	L-1	TYPE E SDMH												
		12" PIPE		L-1										
		24" PIPE	L-1	L-2										
	L-2	TYPE E SDMH												
		24" PIPE	L-2											
		exist. cb												
		COTG												
SUB-TOTAL THIS SHEET														

DATE	REVISION
6/20/03	⚠3 Deleted Item.

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

RMTC JOB NO.: 1-19369-0E

ADD. 175

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 176	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																	
			ITEM NO.																			
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	BED COURSE MATERIAL FOR CULVERT	6-INCH POLYVINYL CHLORIDE PIPE, SDR 35	8-INCH POLYVINYL CHLORIDE PIPE, SDR 35	12-INCH POLYVINYL CHLORIDE PIPE, SDR 35 3	8-INCH DUCTILE IRON PIPE, CLASS 52	12-INCH DUCTILE IRON PIPE, CLASS 52	24-INCH REINFORCED CONCRETE PIPE, CLASS III	36-INCH REINFORCED CONCRETE PIPE, CLASS III	CONCRETE COLLAR FOR 24-INCH DRAIN CONNECTION	CONCRETE COLLAR FOR 36-INCH DRAIN CONNECTION	24-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 24-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	30-INCH REINFORCED CPNCRETE PIPE, CLASS III, OR 30-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	36-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 36-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	LINED DRAINAGE DITCH, TYPE "A"	LINED DRAINAGE DITCH, TYPE "B"	LINED DRAINAGE DITCH, TYPE "C"	LINED DRAINAGE DITCH, TYPE "D"	LINED DRAINAGE DITCH, TYPE "E"
			UNIT		C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
		8" PIPE						64														
		exist cb																				
		INLET STRUCTURE			17 3																	
		CONCRETE SWALE																				
	N-1	SPECIAL SDMH			61 3																	
		36" PIPE	M-1	N-1														164 3				
	M-1	TYPE A2 GDI			50 3																	
		30" PIPE	M-2	M-1													20					
		TRENCH OUTLET																				
AC7.17		TRENCH OUTLET																				
		CONC SWALE																				
		CONC SWALE																				
		CONC SWALE																				
		30" PIPE	M-2 3	M-1	134 3												64					
	M-2	TYPE A1 GDI			19 3																	
		30" PIPE	M-3	M-2	150 3												105					
	M-3	TYPE A1 GDI			18 3																	
		24" PIPE	M-4	M-3	125 3											139						
	M-4	SPECIAL SDMH			21 3																	
		24" PIPE	M-5	M-4	2 3											9 3						
	M-5	TYPE D CB			22 3																	
		24" PIPE	M-6	M-5	26 3	64 3										30						
	M-6	TYPE D CB			23 3																	
		8" PIPE		M-6				25														
		COTG																				
		24" PIPE	M-7	M-5	69 3											84						
	M-7	TYPE D CB			33 3																	
		24" PIPE	M-8	M-7	79 3	95 3										86						
		8" PIPE		M-7				16														
SUB-TOTAL THIS SHEET					849 3	159 3		105								348 3	189	164 3				

6/20/03 3 Revised Quantities. Added Item.

DATE REVISION

ORIGINAL PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

SHEET No. AC7.65 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 176

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 177	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																			
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	ITEM NO. FROM STRUCTURES	ITEM NO. TO STRUCTURES	LINED DRAINAGE DITCH, TYPE "F"	LINED DRAINAGE DITCH, TYPE "G"	TYPE A STORM DRAIN MANHOLE, 5 FT TO 5.99 FT 3	TYPE A STORM DRAIN MANHOLE, 6 FT TO 6.99 FT 3	TYPE A STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	TYPE A STORM DRAIN MANHOLE, 10 FT TO 10.99 FT	TYPE B STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	TYPE E STORM DRAIN MANHOLE, 5 FT TO 5.99 FT 3	TYPE E STORM DRAIN MANHOLE, 6 FT TO 6.99 FT 3	SPECIAL STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	SPECIAL STORM DRAIN MANHOLE, 5 FT TO 5.99 FT	SPECIAL STORM DRAIN MANHOLE, 6 FT TO 6.99 FT	SPECIAL STORM DRAIN MANHOLE, 7 FT TO 7.99 FT	SPECIAL STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	SPECIAL STORM DRAIN MANHOLE, 15 FT TO 15.99 FT	TYPE D CATCH BASIN, 4 FT TO 4.99 FT	TYPE D CATCH BASIN, 5 FT TO 5.99 FT	COLUMN DRAIN CLEANOUT	DRAIN CLEANOUT TO GRADE	TRENCH DRAIN	GROUTED RUBBLE PAVING FOR 6' X 6' GRP PAD
		UNIT			LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	C.Y.
		8" PIPE																							
		exist cb																							
		INLET STRUCTURE																							
		CONCRETE SWALE																						3	
	N-1	SPECIAL SDMH															1								
		36" PIPE	M-1	N-1																					
	M-1	TYPE A2 GDI																							
		30" PIPE	M-2	M-1																					
		TRENCH OUTLET																						145 3	3
AC7.17		TRENCH OUTLET																						273 3	3
		CONC SWALE																							
		CONC SWALE																							
		CONC SWALE																							
		30" PIPE																							
	M-2	TYPE A1 GDI																							
		30" PIPE	M-3	M-2																					
	M-3	TYPE A1 GDI																							
		24" PIPE	M-4	M-3																					
	M-4	SPECIAL SDMH													1										
		24" PIPE	M-5	M-4																					
	M-5	TYPE D CB																				1			
		24" PIPE	M-6	M-5																					
	M-6	TYPE D CB																				1			
		8" PIPE		M-6																					
		COTG																					1		
		24" PIPE	M-7	M-5																					
	M-7	TYPE D CB																				1			
		24" PIPE	M-8	M-7																					
		8" PIPE		M-7																					
		SUB-TOTAL THIS SHEET													1		1					1	2		1	418 3	3

DATE	REVISION
6/20/03	3 Revised Quantities. Added and Deleted Items.

SURVEY PLOTTED BY ____ DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

ORIGINAL PLAN
NOTE BOOK
No.

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 178	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																				
			ITEM NO.																						
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	3 TYPE A1 GRATED DROP INLET, 4 FT TO 4.99 FT	TYPE A1 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A1 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A1 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A1 GRATED DROP INLET, 8 FT TO 8.99 FT	TYPE A1 GRATED DROP INLET, 10 FT TO 10.99 FT	TYPE A1 GRATED DROP INLET, 14 FT TO 14.99 FT	3 TYPE A2 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A2 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A2 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A2 GRATED DROP INLET, 13 FT TO 13.99 FT	3 TYPE A3 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A3 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE A3 GRATED DROP INLET, 12 FT TO 12.99 FT	TYPE A4 GRATED DROP INLET, 10 FT TO 10.99 FT	TYPE A5 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE B4 STEEL FRAME AND GRATE	TYPE B6 STEEL FRAME AND GRATE	TYPE B8 STEEL FRAME AND GRATE			
	UNIT				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
		8" PIPE																								
		exist cb																								
		INLET STRUCTURE																								
		CONCRETE SWALE																								
	N-1	SPECIAL SDMH																								
		36" PIPE	M-1	N-1																						
	M-1	TYPE A2 GDI											1													
		30" PIPE	M-2	M-1																						
		TRENCH OUTLET																								
AC7.17		TRENCH OUTLET																								
		CONC SWALE																								
		CONC SWALE																								
		CONC SWALE																								
		30" PIPE																								
	M-2	TYPE A1 GDI				1																				
		30" PIPE	M-3	M-2																						
	M-3	TYPE A1 GDI				1																				
		24" PIPE	M-4	M-3																						
	M-4	SPECIAL SDMH																								
		24" PIPE	M-5	M-4																						
	M-5	TYPE D CB																								
		24" PIPE	M-6	M-5																						
	M-6	TYPE D CB																								
		8" PIPE		M-6																						
		COTG																								
		24" PIPE	M-7	M-5																						
	M-7	TYPE D CB																								
		24" PIPE	M-8	M-7																						
		8" PIPE		M-7																						
SUB-TOTAL THIS SHEET						2							1													

DATE	REVISION
6/20/03	3 Deleted Items.

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

RMTC JOB NO.: 1-19369-0E

SHEET No. AC7.67 OF 350 SHEETS

ADD. 178

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 179	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES								
												653	
			ITEM NO.									.0010	
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	INLET STRUCTURE 2 FT TO 2.99 FT	INLET STRUCTURE 11 FT TO 11.99 FT	COLUMN OUTLET STRUCTURE, TYPE A	COLUMN OUTLET STRUCTURE, TYPE B	COLUMN OUTLET STRUCTURE, TYPE C	COLUMN OUTLET SWALE, TYPE A	COLUMN OUTLET SWALE, TYPE B	COLUMN OUTLET SWALE, TYPE C	162-INCH STRUCTURAL PLATE	3
			UNIT		EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	L.S.	
		8" PIPE												
		exist cb												
		INLET STRUCTURE			1									
		CONCRETE SWALE					3			10 3	50 3			
	N-1	SPECIAL SDMH												
		36" PIPE	M-1	N-1										
	M-1	TYPE A2 GDI												
		30" PIPE	M-2	M-1										
		TRENCH OUTLET												
AC7.17		TRENCH OUTLET												
		CONC SWALE					3 3	3		41 3				
		CONC SWALE					2 3	1 3		3				
		CONC SWALE					3		1 3	3				
		30" PIPE												
	M-2	TYPE A1 GDI												
		30" PIPE	M-3	M-2										
	M-3	TYPE A1 GDI												
		24" PIPE	M-4	M-3										
	M-4	SPECIAL SDMH												
		24" PIPE	M-5	M-4										
	M-5	TYPE D CB												
		24" PIPE	M-6	M-5										
	M-6	TYPE D CB												
		8" PIPE		M-6										
		COTG												
		24" PIPE	M-7	M-5										
	M-7	TYPE D CB												
		24" PIPE	M-8	M-7										
		8" PIPE		M-7										
SUB-TOTAL THIS SHEET					1		8	1	1 3	51 3	50 3			

DATE	REVISION
6/20/03	3 Revised Quantities. Deleted Item.

ORIGINAL PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 180	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																		
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	ITEM NO. FROM STRUCTURES	ITEM NO. TO STRUCTURES	STRUCTURE EXCAVATION FOR DRAINAGE SYSTEM	BED COURSE MATERIAL FOR CULVERT	6-INCH POLYVINYL CHLORIDE PIPE, SDR 35	8-INCH POLYVINYL CHLORIDE PIPE, SDR 35	12-INCH POLYVINYL CHLORIDE PIPE, SDR 35 △5	8-INCH DUCTILE IRON PIPE, CLASS 52	12-INCH DUCTILE IRON PIPE, CLASS 52	24-INCH REINFORCED CONCRETE PIPE, CLASS III	36-INCH REINFORCED CONCRETE PIPE, CLASS III	CONCRETE COLLAR FOR 24-INCH DRAIN CONNECTION	CONCRETE COLLAR FOR 36-INCH DRAIN CONNECTION	24-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 24-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	30-INCH REINFORCED CPNCRETE PIPE, CLASS III, OR 30-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	36-INCH REINFORCED CONCRETE PIPE, CLASS III, OR 36-INCH HIGH DENSITY POLYETHYLENE PIPE, TYPE S	LINED DRAINAGE DITCH, TYPE "A"	LINED DRAINAGE DITCH, TYPE "B"	LINED DRAINAGE DITCH, TYPE "C"	LINED DRAINAGE DITCH, TYPE "D"	LINED DRAINAGE DITCH, TYPE "E"
			UNIT		C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
		COTG																					
	M-8	TYPE A1 GDI			16 △3																		
		24" PIPE	M-9	M-8	130 △3											19 △3							
		exist column drain																					
		8" PIPE	N-2					24 △3															
		COTG																					
	N-2	SPECIAL SDMH			41 △3																		
AC7.18		24" PIPE														86 △3							
	M-9	TYPE A1 GDI	M-9	M-8	15 △3																		
		CONC SWALE																					
		8" PIPE						37															
		COTG																					
		exist sdmh																					
		exist concrete ditch																					
		24" PIPE		Q-1	16 △3											49							
	Q-1	TYPE B SDMH			20 △3																		
		24" PIPE	Q-1	P-1	40 △3	11 △3										21							
	P-1	SPECIAL SDMH			30 △3																		
		24" PIPE	P-1	P-2	49 △3	10 △3										38							
	P-2	SPECIAL SDMH			40 △3																		
		exist sdmh																					
		8" PIPE	N-3					26 △3															
		COTG																					
	N-3	SPECIAL SDMH			46 △3																		
		36" PIPE	N-4	N-3	54 △3													41					
	N-4	SPECIAL SDMH			44 △3																		
		36" PIPE	N-5	N-4	13 △3			△3										15 △3					
	N-5	SPECIAL SDMH			46 △3																		
SUB-TOTAL THIS SHEET					600 △3	21 △3		87 △3								213		56 △3					
TOTAL					8,261 △5	937 △3	64	192 △3	15 △3	723 △3	65 △3	21 △3	36 △3	1	1 △3	2,658 △3	189	663 △3	3,094 △3	611 △3	760 △3	63	83 △3

DATE	REVISION
10/16/03	△5 Revised Quantity.
6/20/03	△3 Revised Quantities. Added Item.

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

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 181	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																			
			ITEM NO.																					
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	LINED DRAINAGE DITCH, TYPE "F"	LINED DRAINAGE DITCH, TYPE "G"	TYPE A STORM DRAIN MANHOLE, 5 FT TO 5.99 FT △3	TYPE A STORM DRAIN MANHOLE, 6 FT TO 6.99 FT △3	TYPE A STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	TYPE A STORM DRAIN MANHOLE, 10 FT TO 10.99 FT	TYPE B STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	TYPE E STORM DRAIN MANHOLE, 5 FT TO 5.99 FT △3	TYPE E STORM DRAIN MANHOLE, 6 FT TO 6.99 FT △3	SPECIAL STORM DRAIN MANHOLE, 4 FT TO 4.99 FT	SPECIAL STORM DRAIN MANHOLE, 5 FT TO 5.99 FT	SPECIAL STORM DRAIN MANHOLE, 6 FT TO 6.99 FT	SPECIAL STORM DRAIN MANHOLE, 7 FT TO 7.99 FT	SPECIAL STORM DRAIN MANHOLE, 8 FT TO 8.99 FT	SPECIAL STORM DRAIN MANHOLE, 15 FT TO 15.99 FT	TYPE D CATCH BASIN, 4 FT TO 4.99 FT	TYPE D CATCH BASIN, 5 FT TO 5.99 FT	COLUMN DRAIN CLEANOUT	DRAIN CLEANOUT TO GRADE	TRENCH DRAIN	GROUTED RUBBLE PAVING FOR 6' X 6' GRP PAD
		UNIT			LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	C.Y.
		COTG																					1 △3		
	M-8	TYPE A1 GDI																							
		24" PIPE	M-9	M-8																					
		exist column drain																							
		8" PIPE	N-2																						
		COTG																					1		
	N-2	SPECIAL SDMH													1										
AC7.18		24" PIPE																							
	M-9	TYPE A1 GDI	M-9	M-8																					
		CONC SWALE																							
		8" PIPE																							
		COTG																					1		
		exist sdmh																							
		exist concrete ditch																							
		24" PIPE		Q-1																					
	Q-1	TYPE B SDMH									1														
		24" PIPE	Q-1	P-1																					
	P-1	SPECIAL SDMH												1											
		24" PIPE	P-1	P-2																					
	P-2	SPECIAL SDMH															1								
		exist sdmh																							
		8" PIPE	N-3																						
		COTG																					1 △3		
	N-3	SPECIAL SDMH															1								
		36" PIPE	N-4	N-3																					
	N-4	SPECIAL SDMH													1										
		36" PIPE	N-5	N-4																					
	N-5	SPECIAL SDMH														1									
SUB-TOTAL THIS SHEET											1			1	1	1	1	2					4 △3		
TOTAL					422 △3	10	1 △3	2 △3	1	1	1	1 △3	1	1	2	1	2	2	1	1	2	22 △3	7 △3	418 △3	7.2 △3

DATE	REVISION
6/20/03	△3 Revised Quantities. Added and Deleted Items.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

RMTC JOB NO.: 1-19369-0E

ADD. 181

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 182	816

STRUCTURES			CULVERTS		ESTIMATED QUANTITIES																					
			ITEM NO.																							
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	3 TYPE A1 GRATED DROP INLET, 4 FT TO 4.99 FT	TYPE A1 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A1 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A1 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A1 GRATED DROP INLET, 8 FT TO 8.99 FT	TYPE A1 GRATED DROP INLET, 10 FT TO 10.99 FT	3 TYPE A1 GRATED DROP INLET, 14 FT TO 14.99 FT	3 TYPE A2 GRATED DROP INLET, 5 FT TO 5.99 FT	TYPE A2 GRATED DROP INLET, 6 FT TO 6.99 FT	TYPE A2 GRATED DROP INLET, 7 FT TO 7.99 FT	3 TYPE A2 GRATED DROP INLET, 13 FT TO 13.99 FT	3 TYPE A3 GRATED DROP INLET, 7 FT TO 7.99 FT	TYPE A3 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE A3 GRATED DROP INLET, 12 FT TO 12.99 FT	TYPE A4 GRATED DROP INLET, 10 FT TO 10.99 FT	TYPE A5 GRATED DROP INLET, 9 FT TO 9.99 FT	TYPE B4 STEEL FRAME AND GRATE	TYPE B6 STEEL FRAME AND GRATE	TYPE B8 STEEL FRAME AND GRATE			
		UNIT			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
		COTG																								
	M-8	TYPE A1 GDI				1 3					3															
		24" PIPE	M-9	M-8																						
		exist column drain																								
		8" PIPE	N-2																							
		COTG																								
	N-2	SPECIAL SDMH																								
AC7.18		24" PIPE																								
	M-9	TYPE A1 GDI	M-9	M-8		1																				
		CONC SWALE																								
		8" PIPE																								
		COTG																								
		exist sdmh																								
		exist concrete ditch																								
		24" PIPE		Q-1																						
	Q-1	TYPE B SDMH																								
		24" PIPE	Q-1	P-1																						
	P-1	SPECIAL SDMH																								
		24" PIPE	P-1	P-2																						
	P-2	SPECIAL SDMH																								
		exist sdmh																								
		8" PIPE	N-3																							
		COTG																								
	N-3	SPECIAL SDMH																								
		36" PIPE	N-4	N-3																						
	N-4	SPECIAL SDMH																								
		36" PIPE	N-5	N-4																						
	N-5	SPECIAL SDMH																								
SUB-TOTAL THIS SHEET						2 3					3															
TOTAL					5	5 3 5	3 5	2 5	1	1	1 3	6 3	4 5	1 5	1	3 5	1	1	1	1	11	1	1			

DATE	REVISION
10/16/03	5 Revised Quantities.
6/20/03	3 Revised Quantities. Deleted Items.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

SHEET No. AC7.71 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 182

DRAINAGE SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 183	816

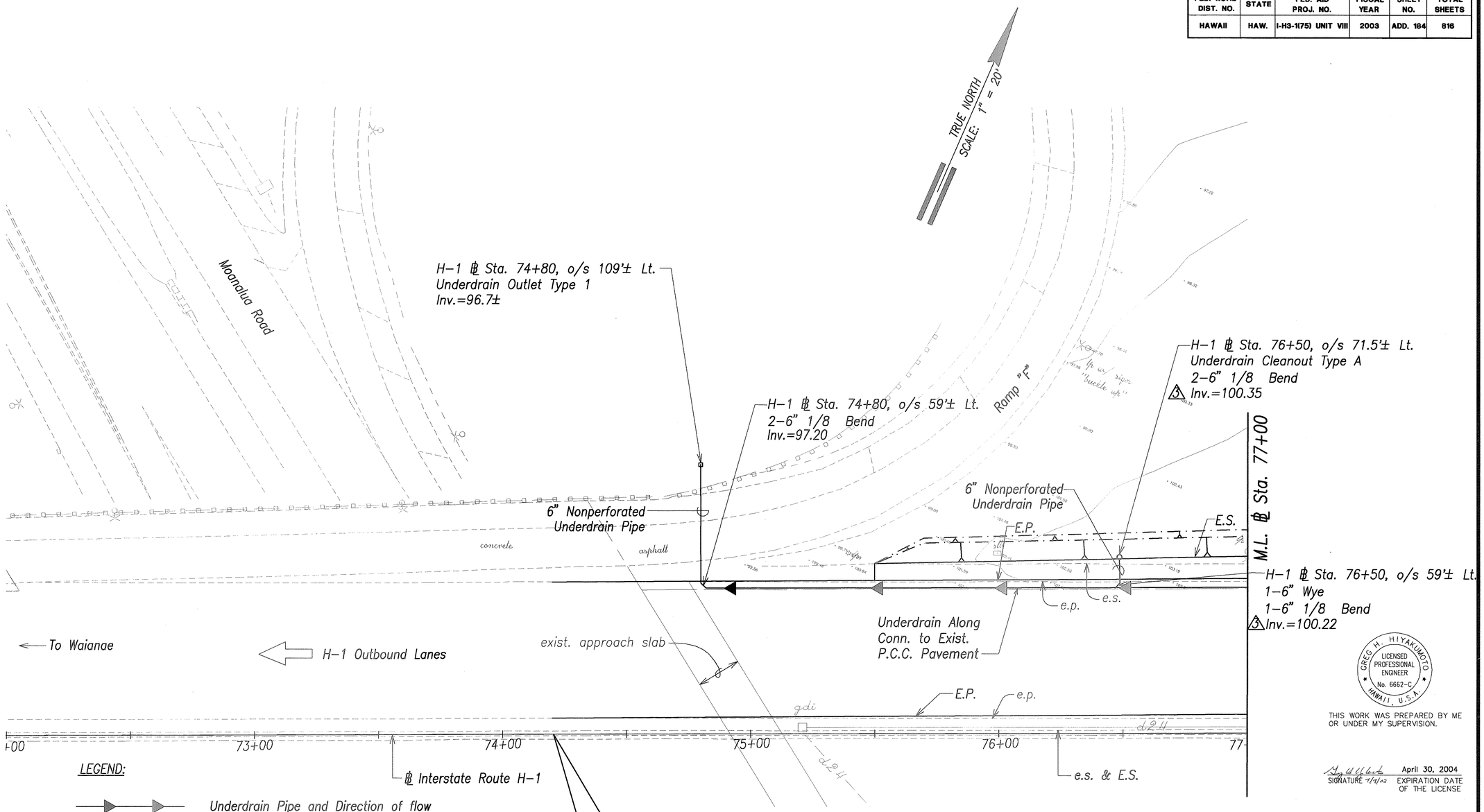
STRUCTURES			CULVERTS		ESTIMATED QUANTITIES								
												653	
			ITEM NO.									.0010	
SHEET NUMBER	STRUCTURE NUMBER	STRUCTURAL TYPE	FROM STRUCTURES	TO STRUCTURES	INLET STRUCTURE 2 FT TO 2.99 FT	INLET STRUCTURE 11 FT TO 11.99 FT	COLUMN OUTLET STRUCTURE, TYPE A	COLUMN OUTLET STRUCTURE, TYPE B	COLUMN OUTLET STRUCTURE, TYPE C	COLUMN OUTLET SWALE, TYPE A	COLUMN OUTLET SWALE, TYPE B	COLUMN OUTLET SWALE, TYPE C	162-INCH STRUCTURAL PLATE	3
			UNIT		EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	L.S.	
		COTG												
	M-8	TYPE A1 GDI												
		24" PIPE	M-9	M-8										
		exist column drain												
		8" PIPE	N-2											
		COTG												
	N-2	SPECIAL SDMH												
AC7.18		24" PIPE												
	M-9	TYPE A1 GDI	M-9	M-8										
		CONC SWALE					1		1 3	15				
		8" PIPE												
		COTG												
		exist sdmh												
		exist concrete ditch												
		24" PIPE		Q-1										
	Q-1	TYPE B SDMH												
		24" PIPE	Q-1	P-1										
	P-1	SPECIAL SDMH												
		24" PIPE	P-1	P-2										
	P-2	SPECIAL SDMH												
		exist sdmh												
		8" PIPE	N-3											
		COTG												
	N-3	SPECIAL SDMH												
		36" PIPE	N-4	N-3										
	N-4	SPECIAL SDMH												
		36" PIPE	N-5	N-4										
	N-5	SPECIAL SDMH												
SUB-TOTAL THIS SHEET							1		1 3	15				
TOTAL					1	1	9 3	1 3	2 3	66 3	50		1	

DATE	REVISION
6/20/03	3 Revised Quantities. Deleted Item.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 184	816



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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6652-C
HAWAII, U.S.A.

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SIGNATURE 7/4/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 74+20± TO ℄ STA. 77+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC8.1 OF 350 SHEETS

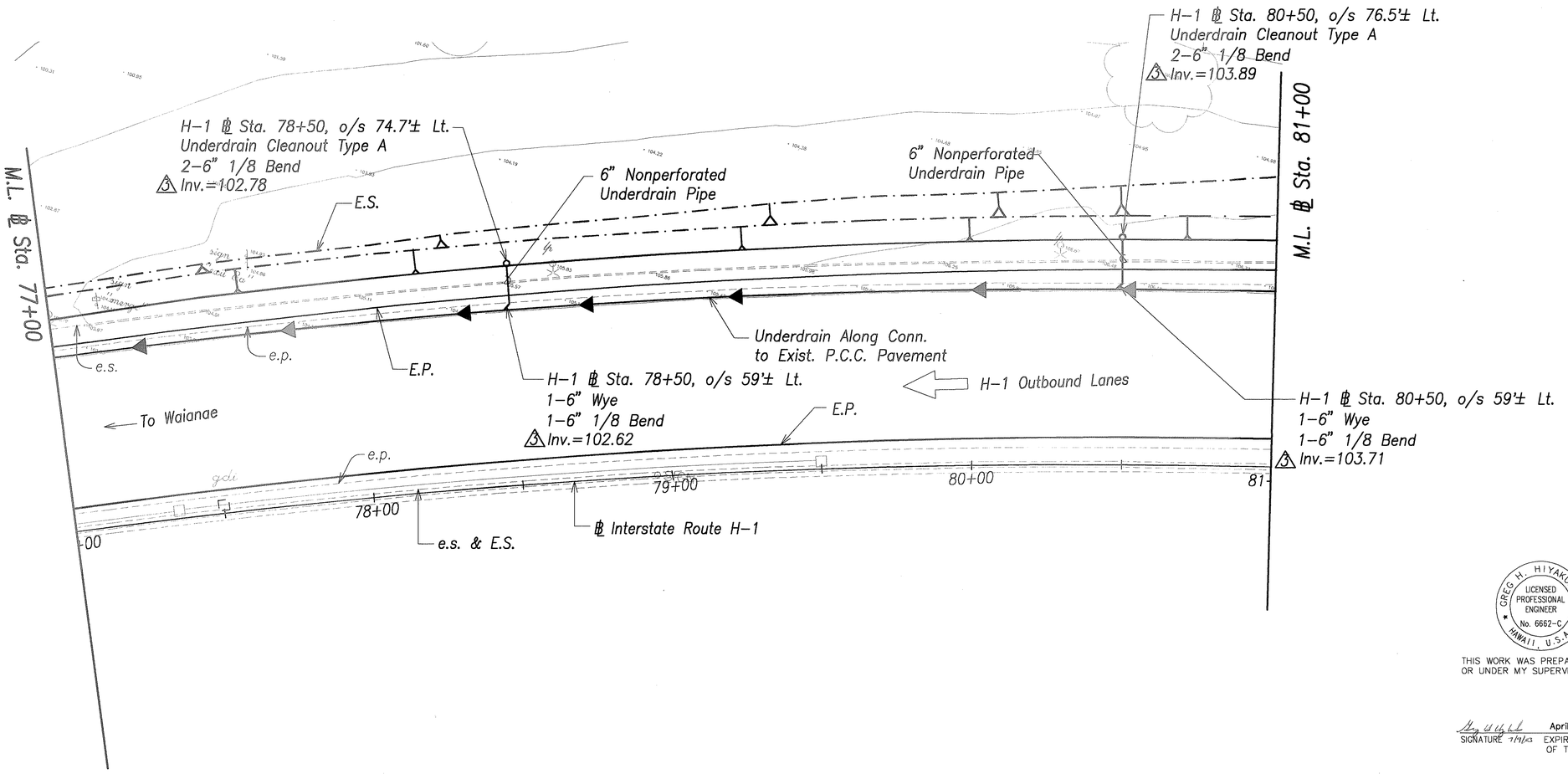
DATE	REVISION
6/20/03	3 Revised Inverts.

RMTC JOB NO.: 1-19369-0E

ADD. 184

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 185	816

TRUE NORTH
SCALE: 1" = 20'



LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Inverts.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/9/03 April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 77+00 TO ℄ STA. 81+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

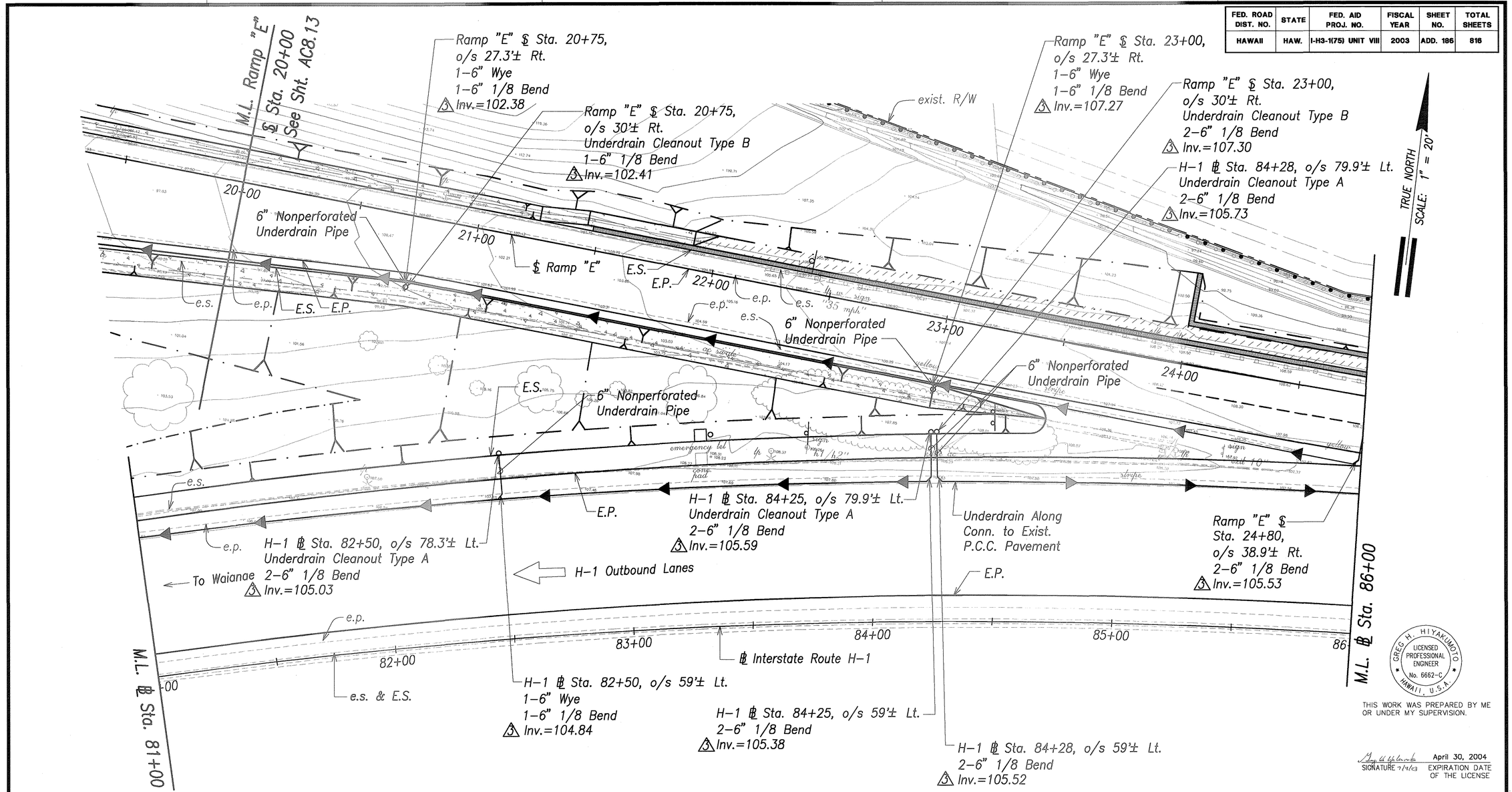
SHEET No. AC8.2 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 185

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 186	816



LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	③ Revised Inverts.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE 7/9/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 81+00 TO ℄ STA. 86+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

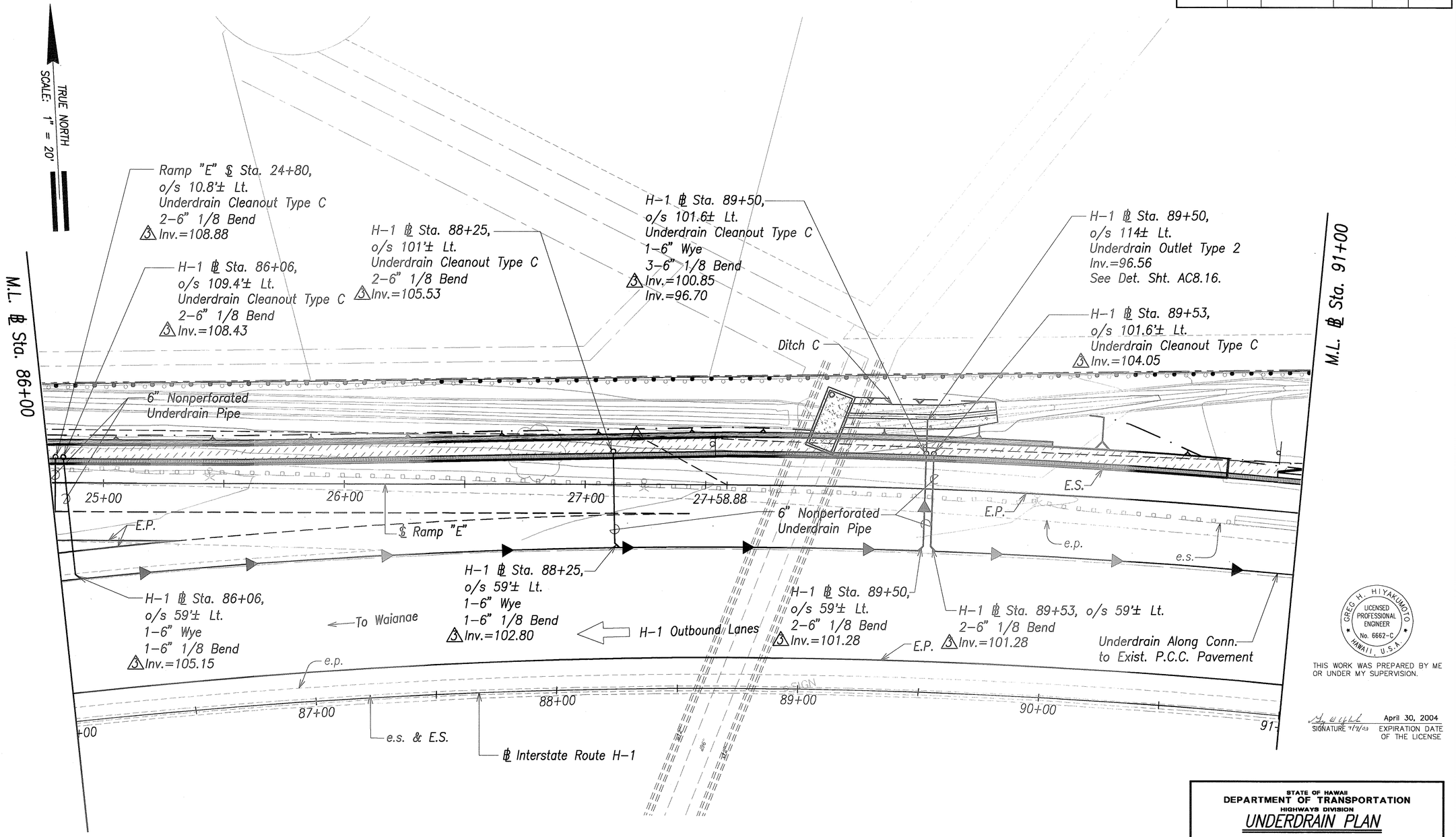
SHEET No. AC8.3 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 186

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 187	816

TRUE NORTH
SCALE: 1" = 20'



LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Inverts.

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/9/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 86+00 TO ℄ STA. 91+00

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

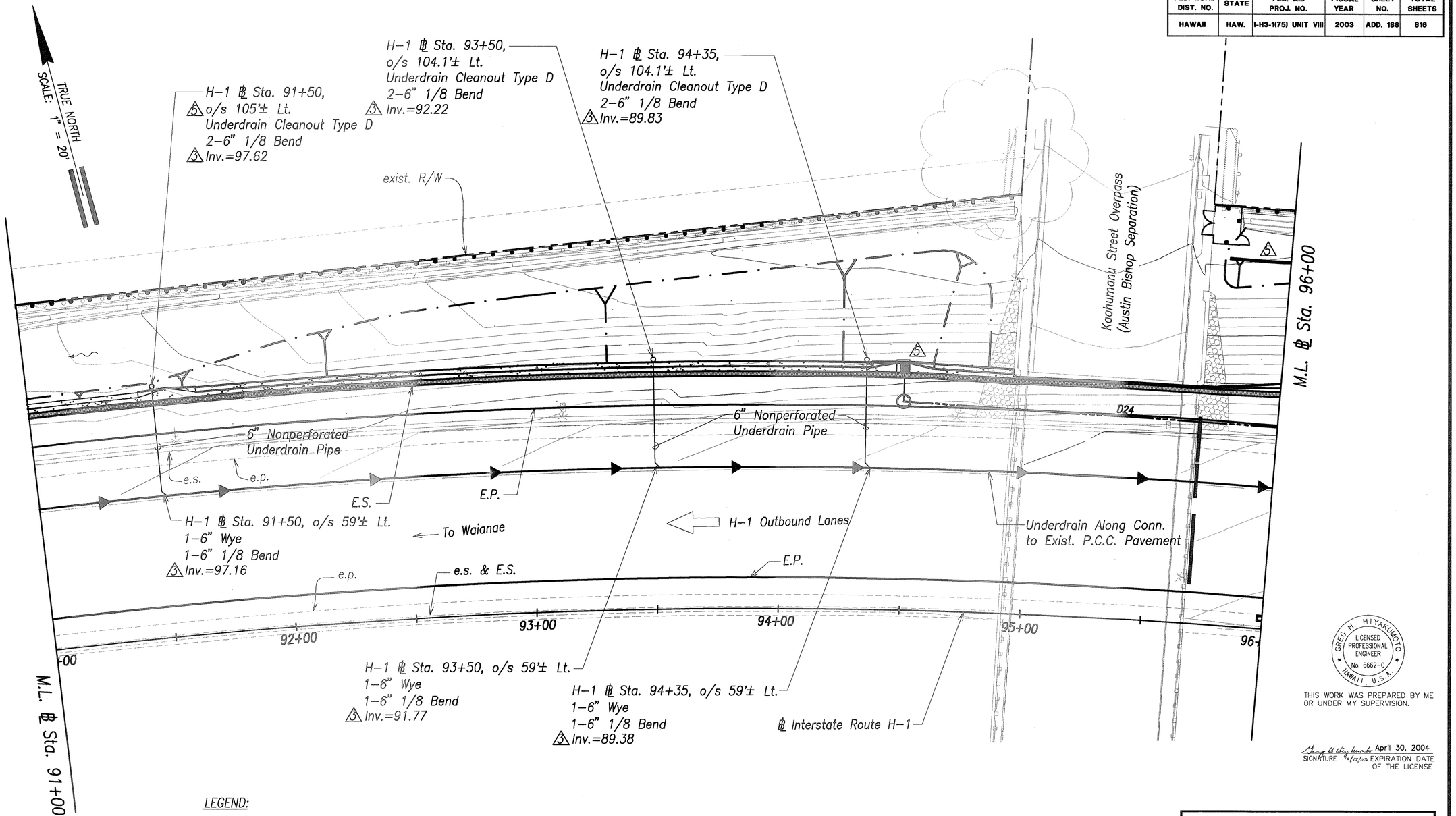
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC8.4 OF 350 SHEETS

RMTC JOB NO.: 1–19369–0E

ADD. 187

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 188	816



LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Note:

See Sht. AC8.16 for Underdrain Conn. to GDI details.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised GDI Type A1, Ditch Transition, and Callout; Relocated NBW–1.
6/20/03	3 Revised Inverts.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662–C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 91+00 TO ℄ STA. 96+00

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

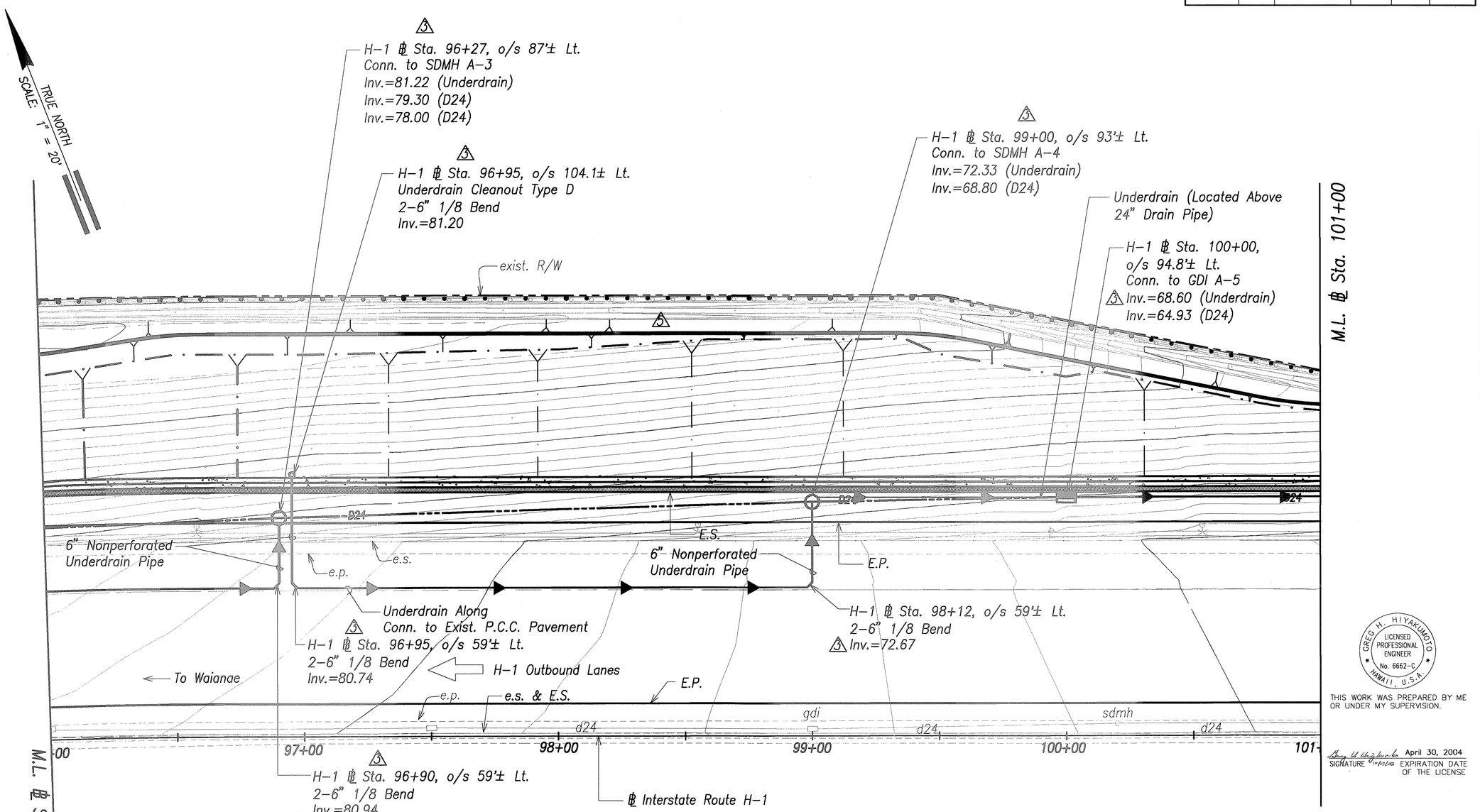
SHEET No. AC8.5 OF 350 SHEETS

ADD. 188

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

RMTC JOB NO.: 1–19369–0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 189	816



LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Note:

See Sht. AC8.16 for Underdrain Conn. to GDI details.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Relocated NBW-1.
6/20/03	3 Revised Underdrain and Drain.

ORIGINAL PLAN

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 96+00 TO ℄ STA. 101+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC8.6 OF 350 SHEETS

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

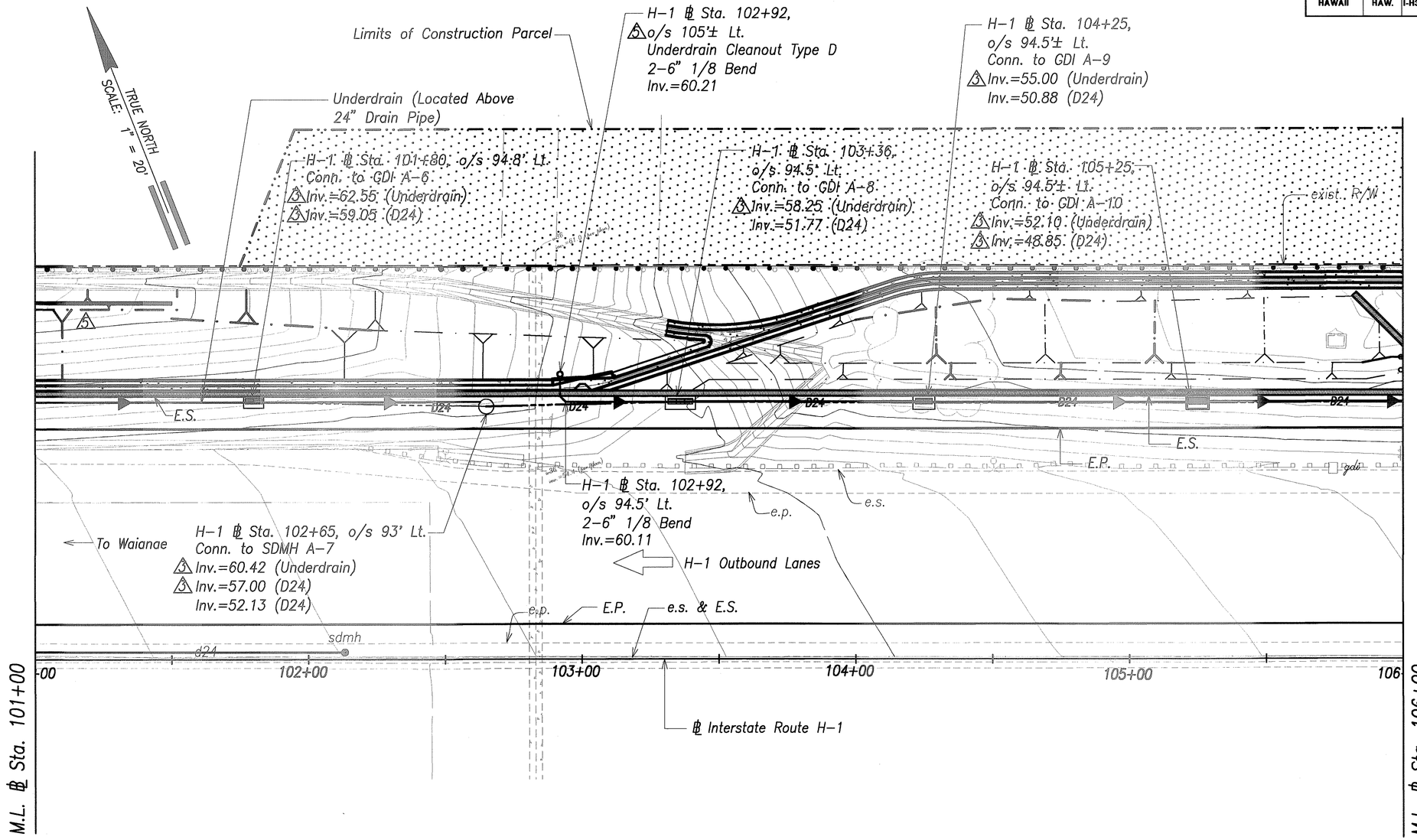
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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

RMTC JOB NO.: 1-19369-0E

ADD. 189

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 190	816



LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Note:

See Sht. AC8.16 for Underdrain Conn. to GDI details.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised Offset; Relocated NBW-1.
6/20/03	3 Revised Underdrain and Drain Inverts.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 101+00 TO ℄ STA. 106+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

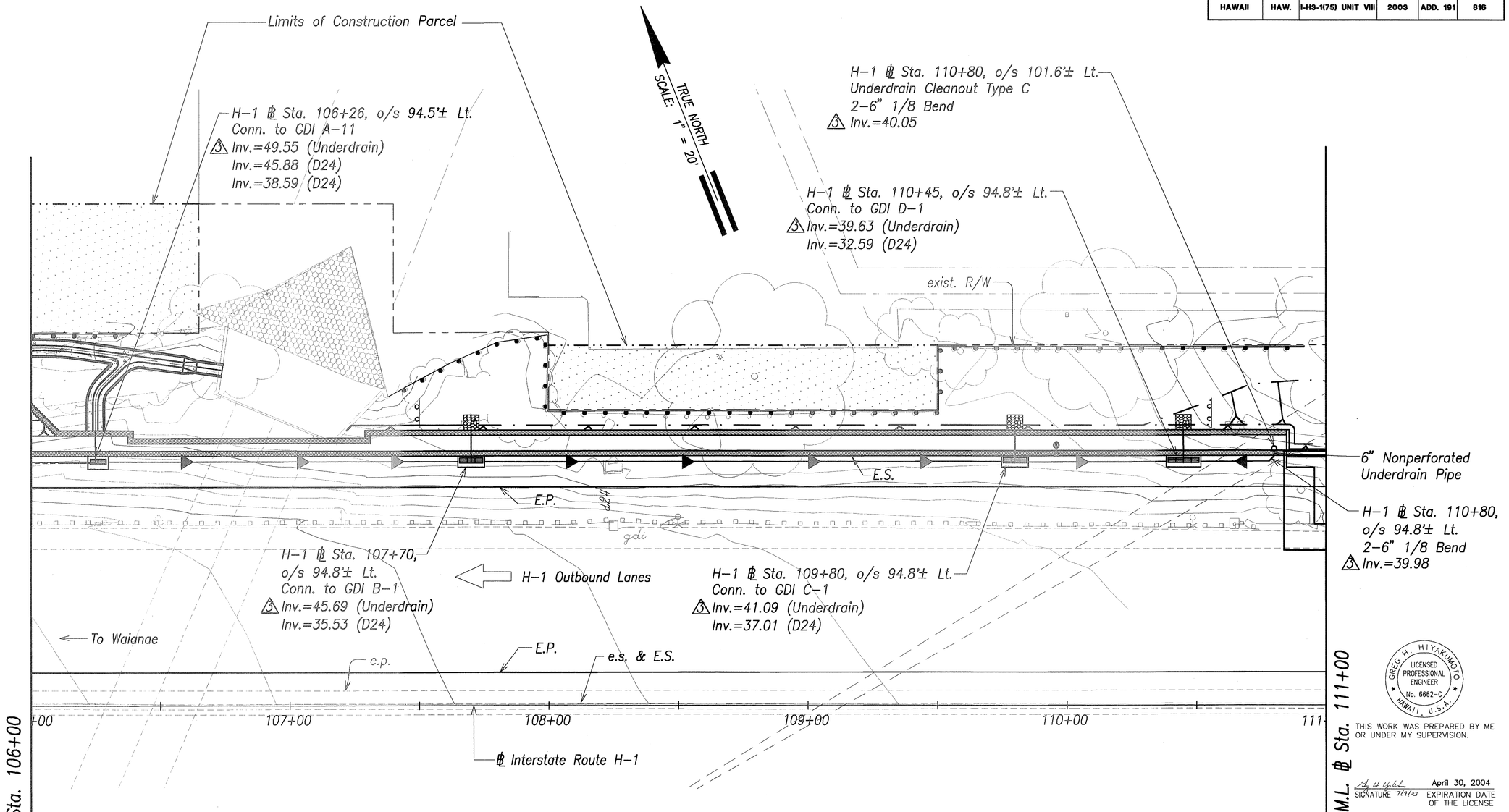
SHEET No. AC8.7 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

ADD. 190

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 191	816



LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Note:

See Sht. AC8.16 for Underdrain Conn. to GDI details.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Underdrain Inverts.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 106+00 TO ℄ STA. 111+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC8.8 OF 350 SHEETS

ORIGINAL PLAN

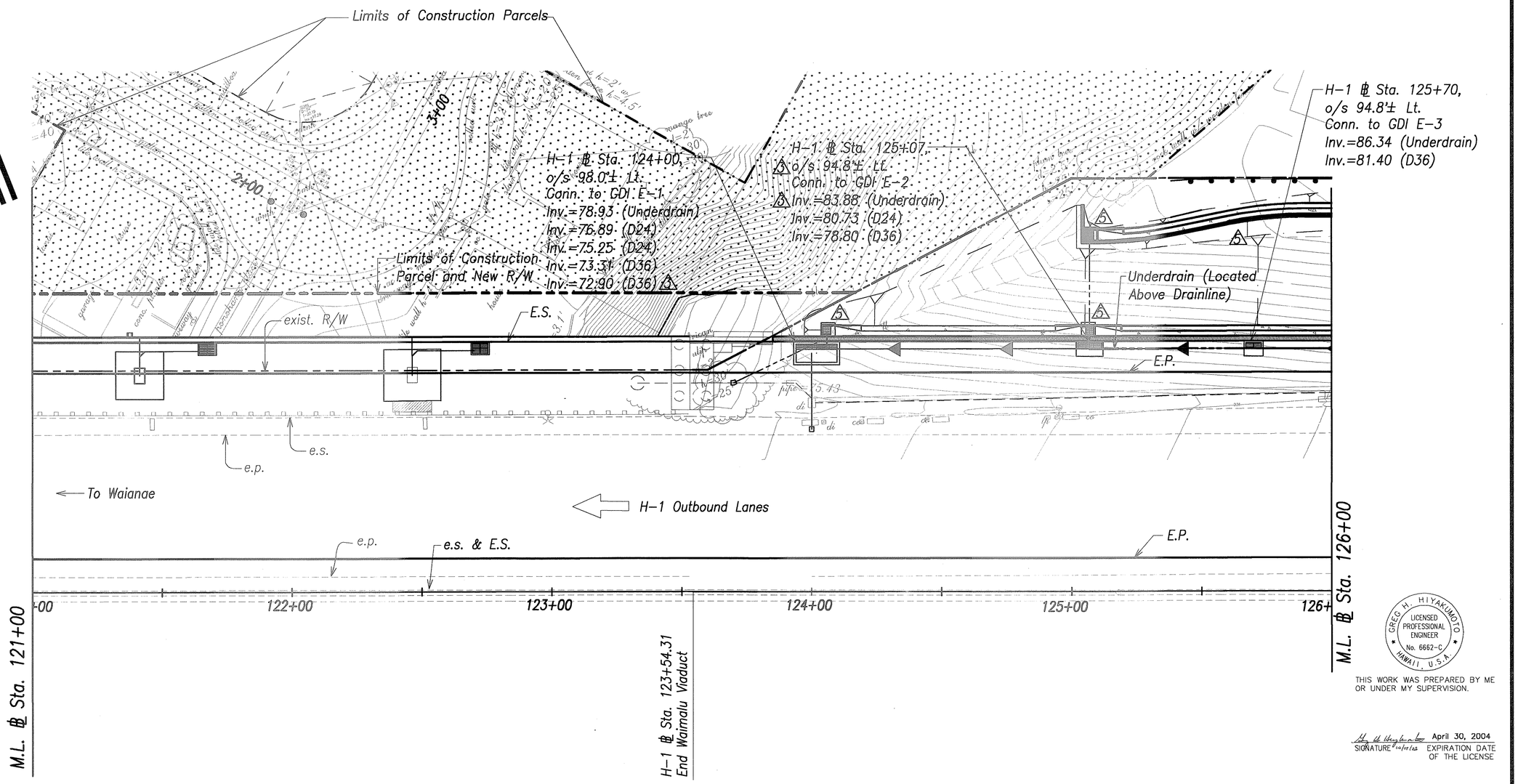
SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
DESIGNED BY
NOTE BOOK QUANTITIES BY
CHECKED BY
No.

RMTC JOB NO.: 1-19369-OE

ADD. 191

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 192	816

TRUE NORTH
SCALE: 1" = 20'



GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Note:

See Sht. AC8.16 for Underdrain Conn. to GDI details.

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised GDI Type A1 and Ditch Transition; Relocated NBW-2.
6/20/03	3 Revised Offset and Invert.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 121+00 TO ℄ STA. 126+00

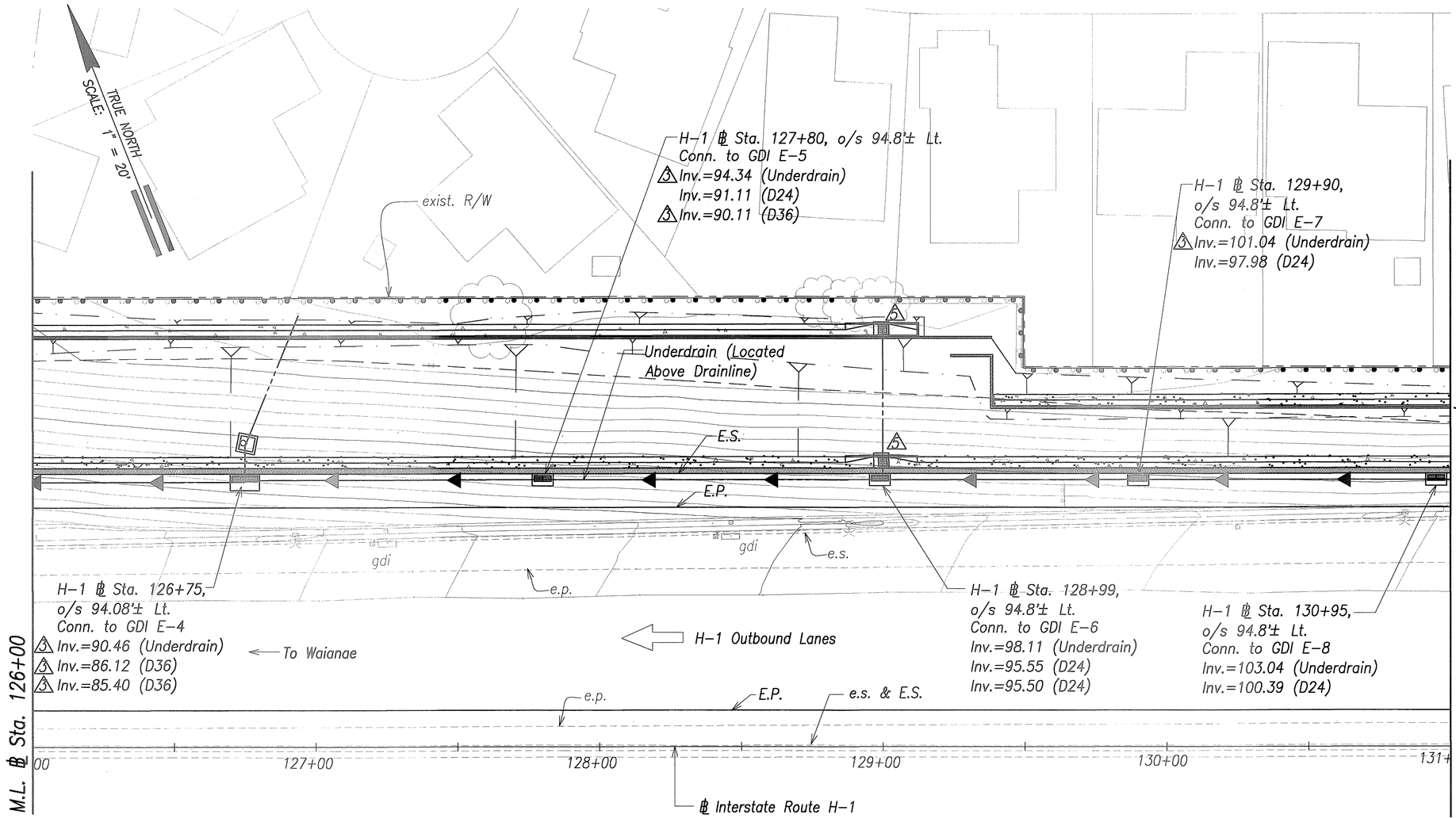
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC8.9 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 192

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 193	816



LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Note:

See Sht. AC8.16 for Underdrain Conn. to GDI details.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised GDI Type A1 and Ditch Transition.
6/20/03	3 Revised Inverts.

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 126+00 TO ℄ STA. 131+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

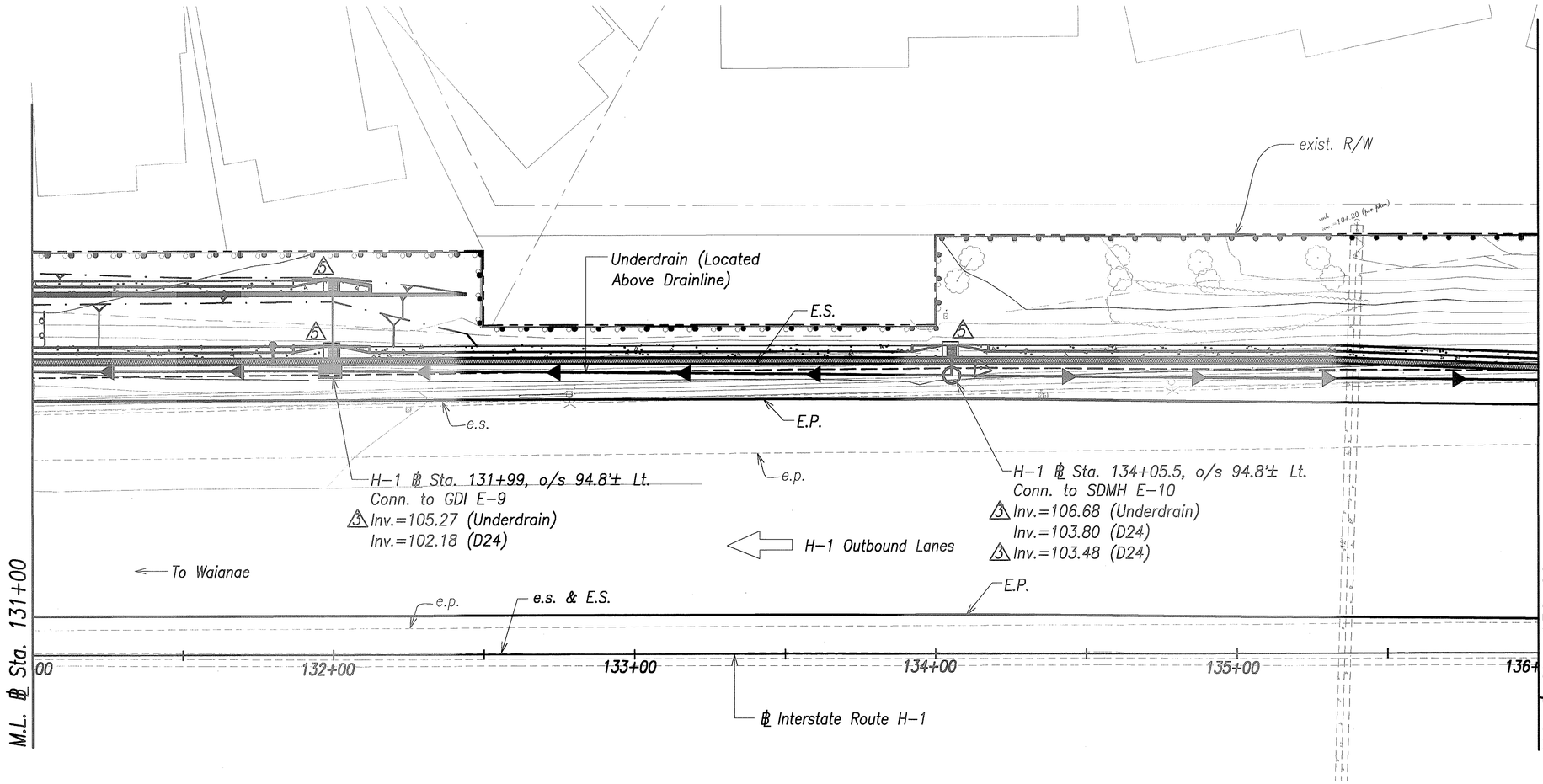
SHEET No. AC8.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 193

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 194	816

TRUE NORTH
SCALE: 1" = 20'



LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Note:

See Sht. AC8.16 for Underdrain Conn. to GDI details.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised GDI Type A1 and Ditch Transition.
6/20/03	5 Revised Inverts.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 131+00 TO ℄ STA. 136+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

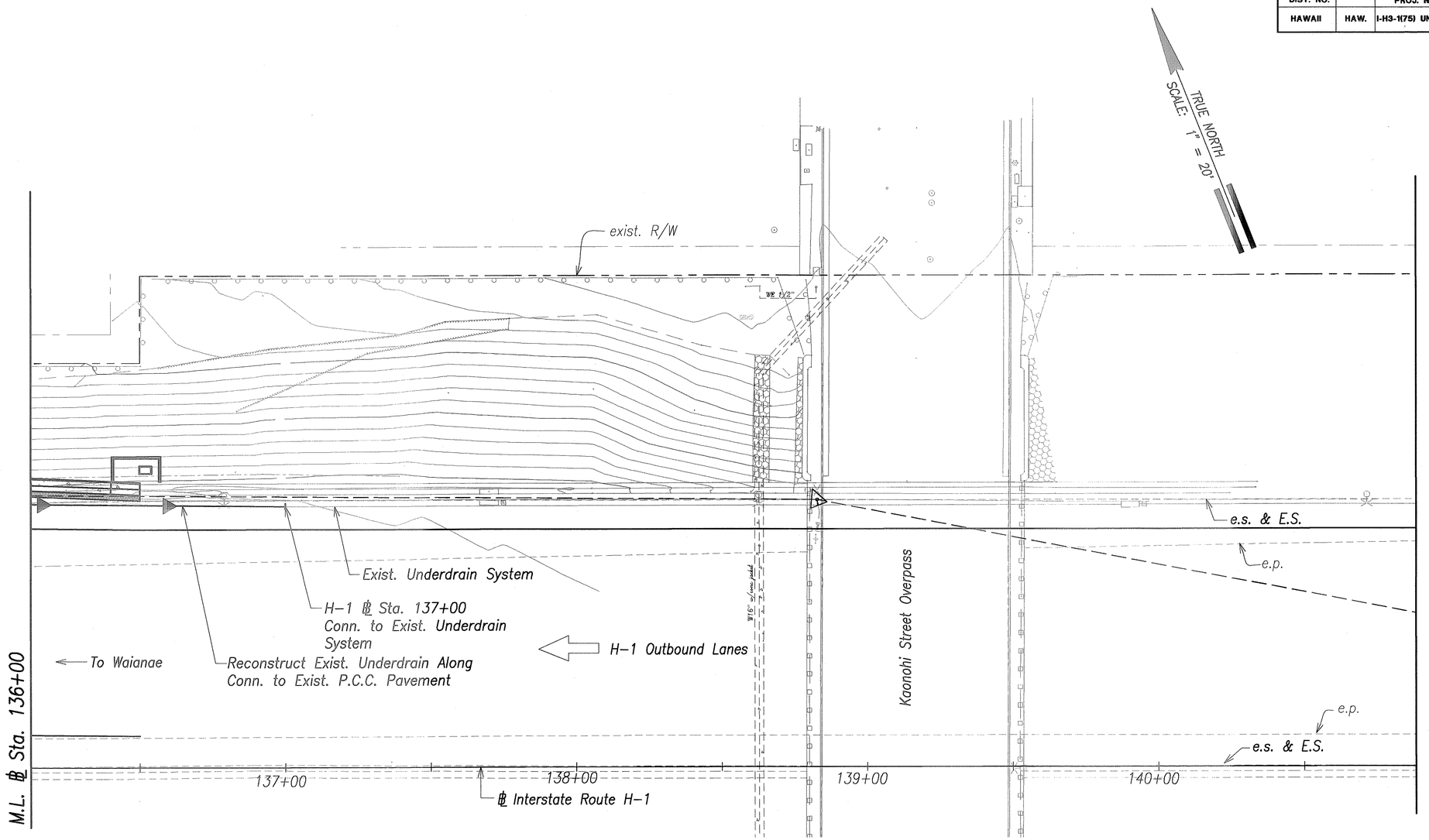
SHEET No. AC8.11 OF 350 SHEETS

ORIGINAL PLANS — SURVEY PLOTTED BY — DRAWN BY — TRACED BY — DESIGNED BY — QUANTITIES BY — CHECKED BY — DATE
NOTE BOOK — No.

RMTC JOB NO.: 1-19369-0E

ADD. 194

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	195	816



LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 136+00 TO ℄ STA. 141+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

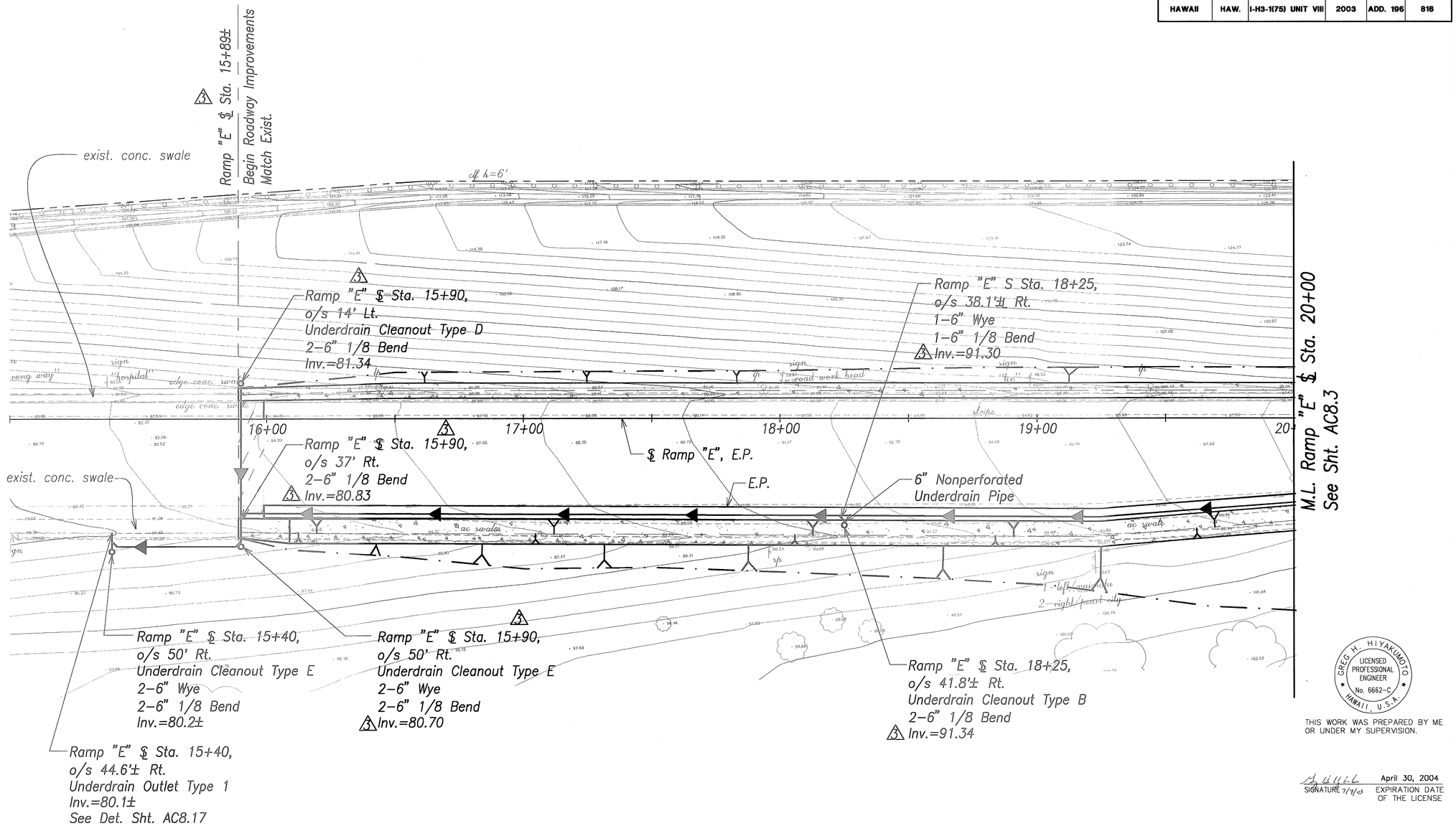
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC8.12 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 196	816

TRUE NORTH
SCALE: 1" = 20'



GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/9/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

LEGEND:

Underdrain Pipe and Direction of Flow

Cleanout

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Beginning of Roadway Improvements and Inverts.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN

℄ STA. 15+40 TO ℄ STA. 20+00

Ramp "E"

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

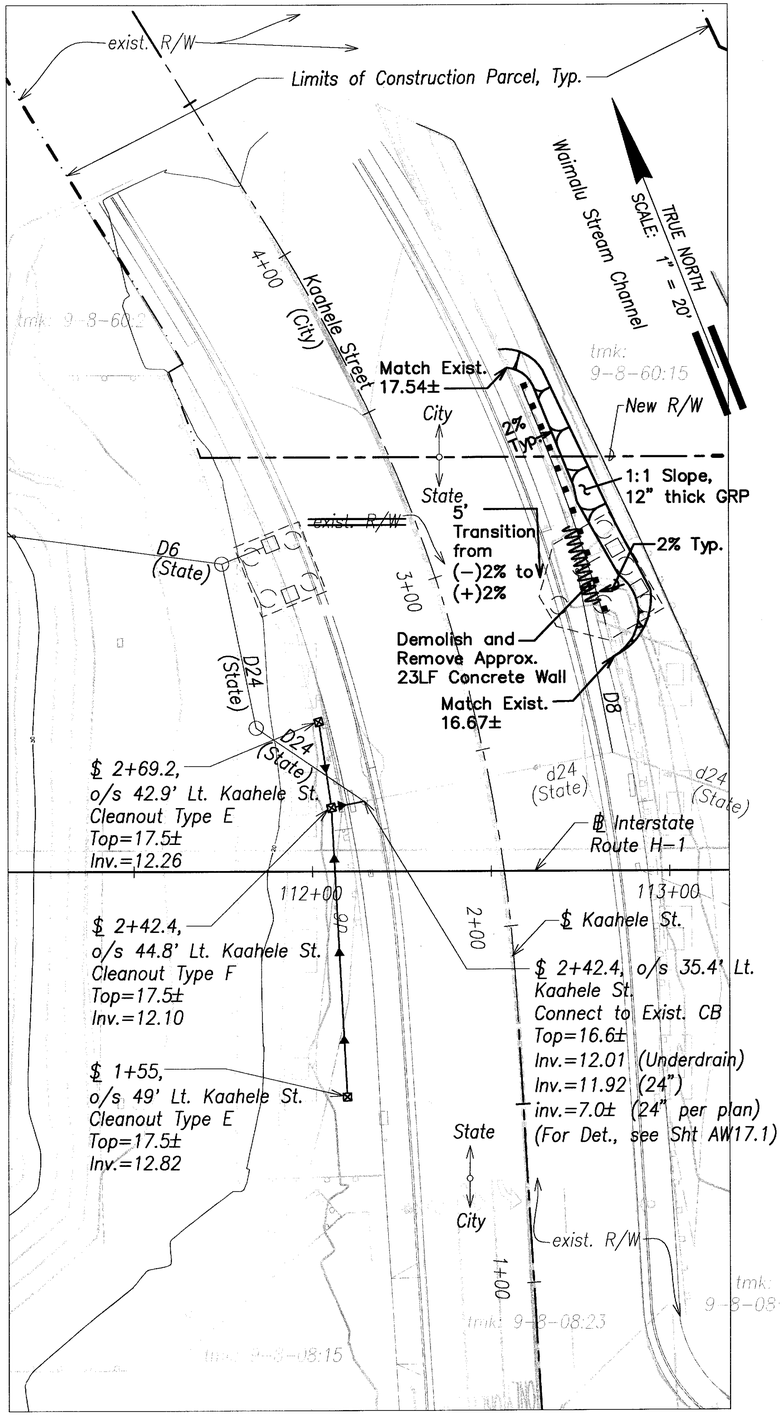
Scale: 1"=20' Date: Mar. 31, 2003

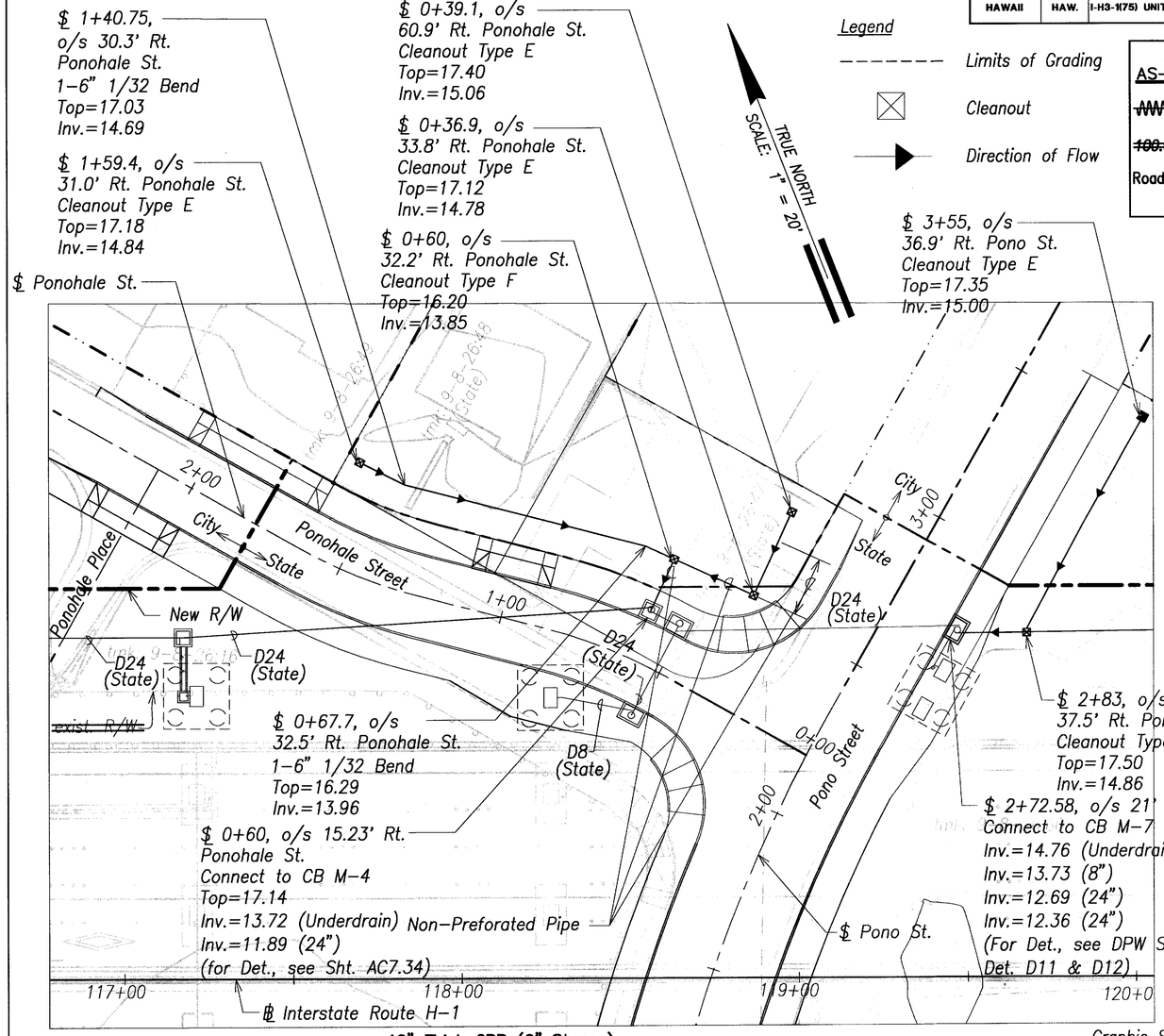
SHEET No. AC8.13 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 196

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	(I-H3-1(75) UNIT VIII	2003	197	816



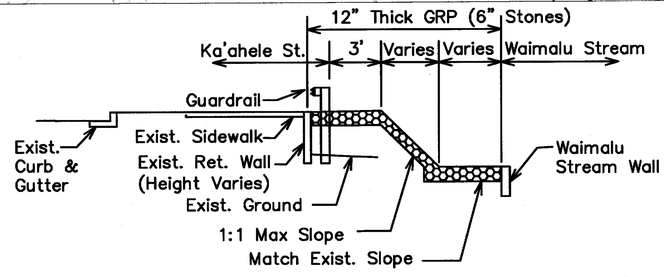


Legend

- Limits of Grading
- Cleanout
- Direction of Flow

LEGEND FOR AS-BUILT POSTINGS

~~WWW~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting



GRP Slope Protection – Kaahele St.
Scale: 1" = 20'

Graphic Scale
1" = 20'
20' 10' 0 20' 40'
Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN PLAN BELOW VIADUCT

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

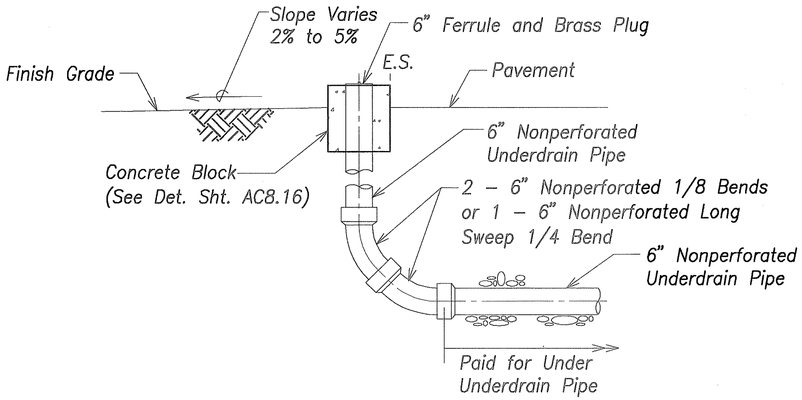
SHEET No. AC8.14 OF 350 SHEETS

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

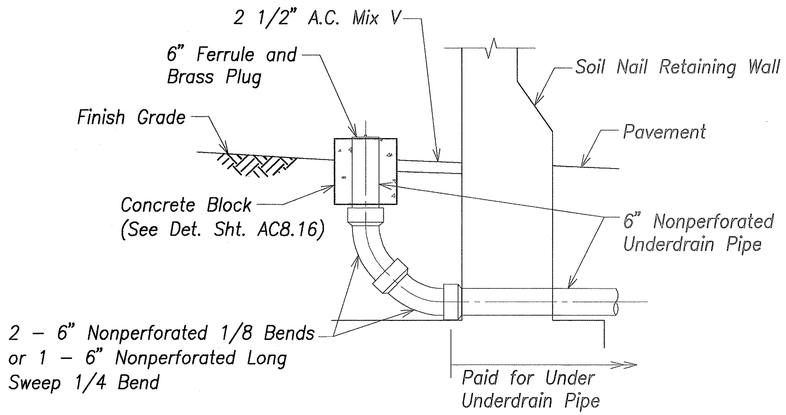
RMTC JOB NO.: 1-19369-0E

"AS-BUILT" 197

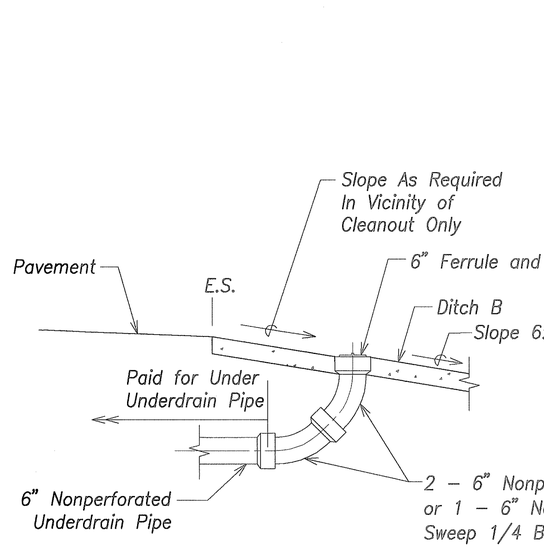
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	198	816



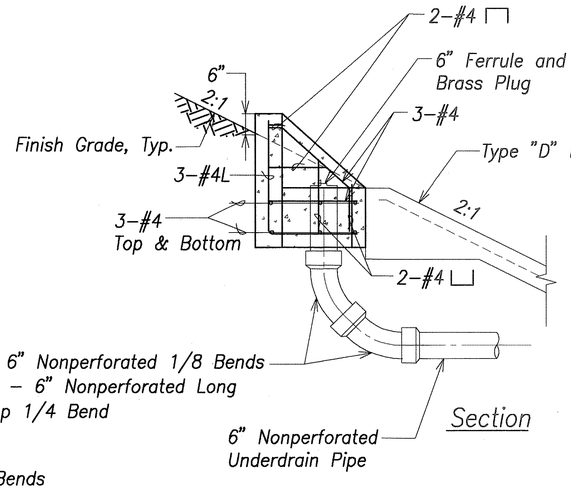
Underdrain Cleanout Type A
Scale: Not To Scale

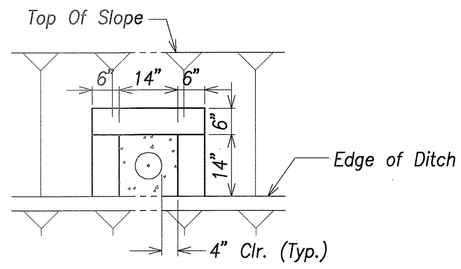


Underdrain Cleanout Type C
Scale: Not To Scale



Underdrain Cleanout Type B
Scale: Not To Scale





Underdrain Cleanout Type D
Scale: Not To Scale

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN DETAILS

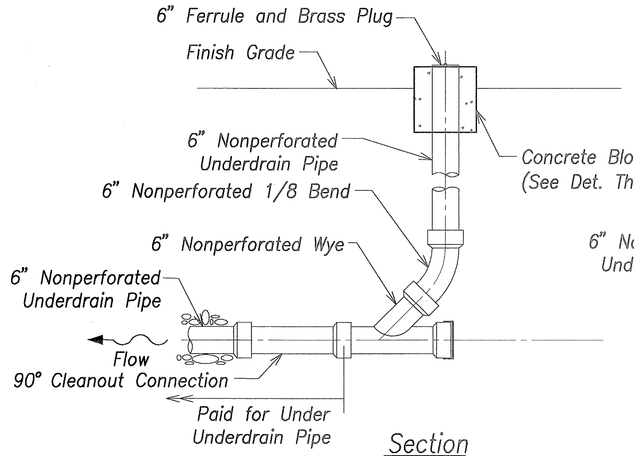
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not to Scale — Date: Mar. 31, 2003

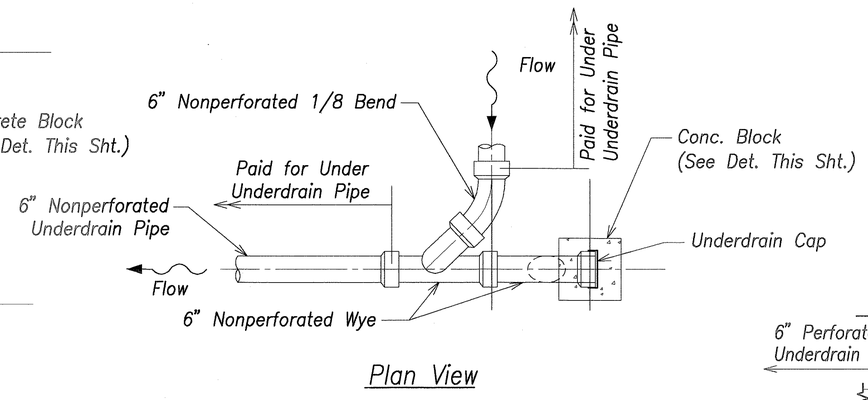
SHEET No. AC8.15 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	199	816



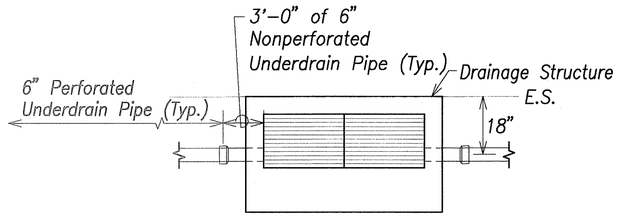
Section



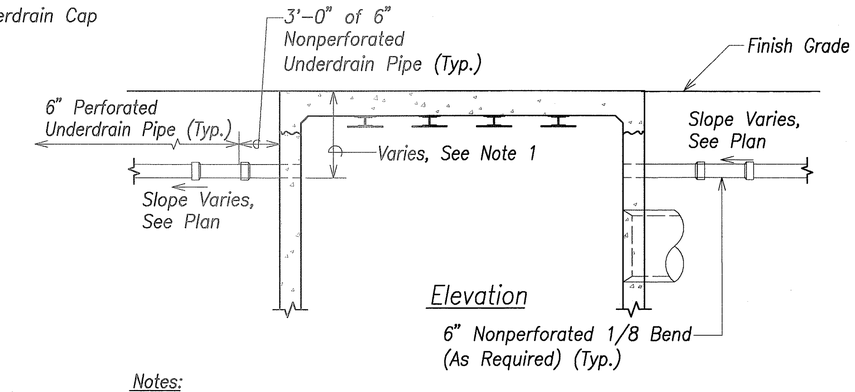
Plan View

Underdrain Cleanout Type E

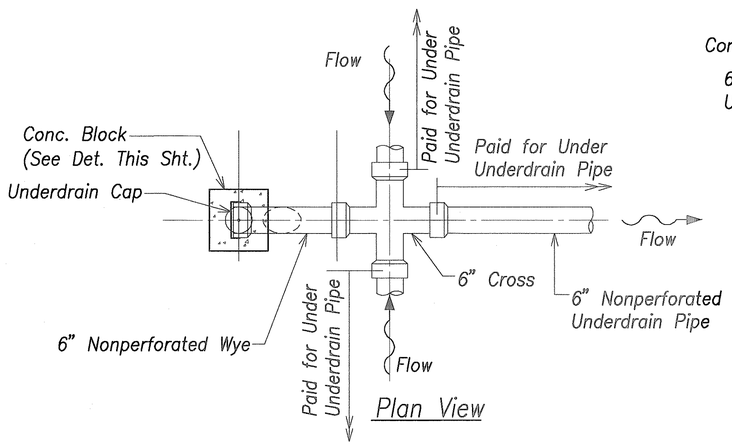
Scale: Not To Scale



Plan



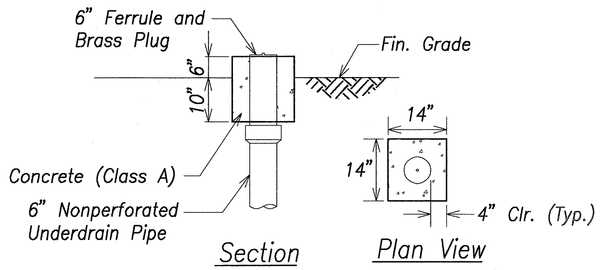
Elevation



Plan View

Underdrain Cleanout Type F

Scale: Not To Scale



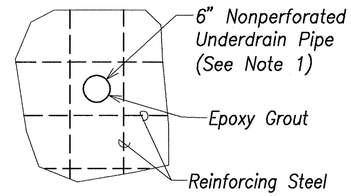
Section Plan View

Concrete Block Detail

Scale: Not To Scale

Notes:

1. The exact invert location of the Underdrain Connection shall be adjusted to pass between the Reinforcing Steel.
2. 6" Nonperforated Underdrain Pipe Connections at drainage structure, including 3 LF Nonperforated Underdrain Pipe at each connection, shall be incidental to the cost of other contract items.



Underdrain Connection To GDI

Scale: Not To Scale

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN DETAILS

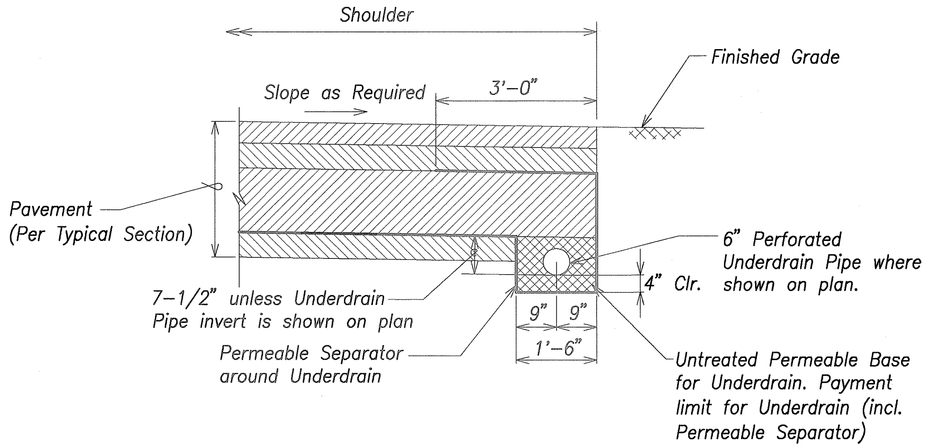
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC8.16 OF 350 SHEETS

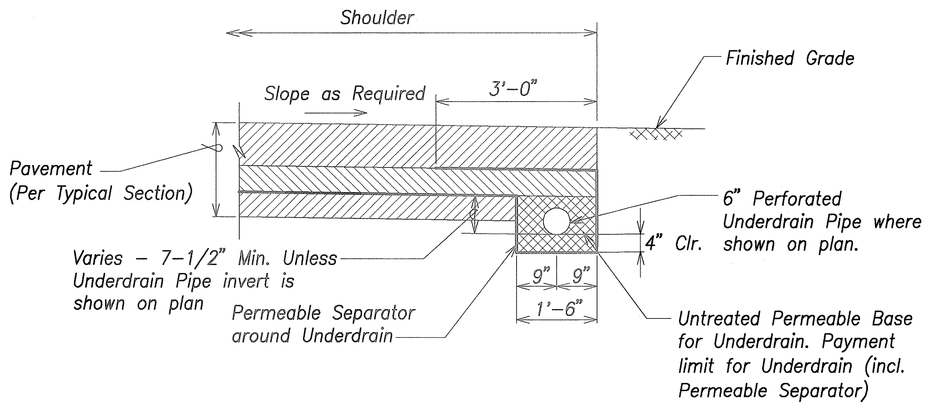
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	200	816



Underdrain Detail For A.C. Pavement

Scale: Not To Scale

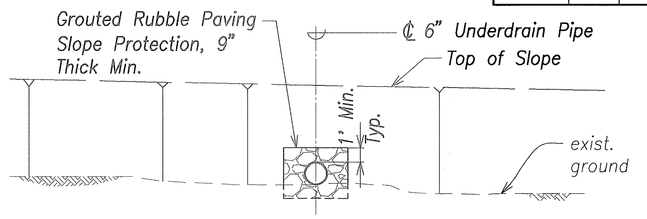


Underdrain Detail For P.C.C. Pavement

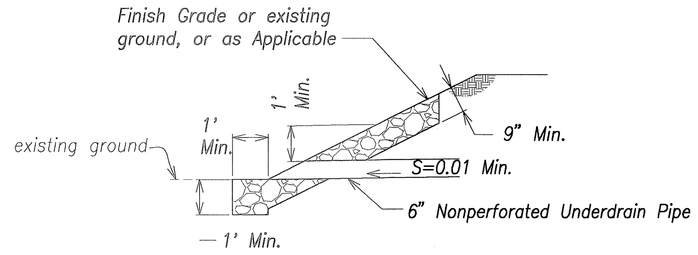
Scale: Not To Scale

Underdrain Note:

At locations where ivert elevations indicate that the underdrain invert will be lower than 7 1/2" below Untreated Permeable Base Course, the Contractor shall allow for the required excavation and material at no additional cost to the State.



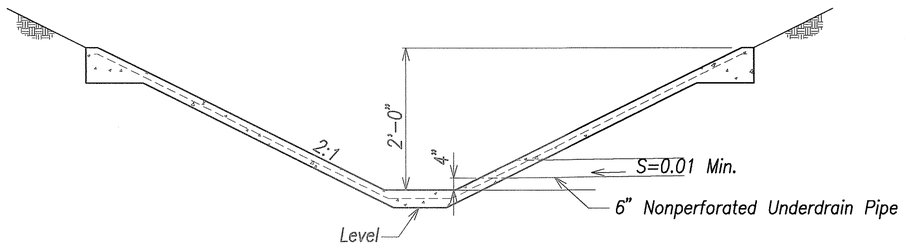
Elevation



Section

Underdrain Outlet Type 1

Scale: Not To Scale



Underdrain Outlet Type 2

Scale: 1" = 1'–0"

Graphic Scale

1" = 1' 1' .5' 0 1' 2'

Scale in Feet



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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNDERDRAIN DETAILS

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC8.17 OF 350 SHEETS

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

RMTC JOB NO.: 1–19369–0E

UNDERDRAIN SUMMARY

ESTIMATED QUANTITIES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 201	816

ITEM NO.			605 .0110
SHEET NUMBER	FROM ⊕/$ STATION NO.	TO ⊕/$ STATION NO.	6-INCH UNDERDRAIN PIPE
	UNIT		LIN. FT.
AC8.1	74+80	77+00	3 218
AC8.1	74+80		50
AC8.1	76+50		13
AC8.2	77+00	81+00	3 407
AC8.2	78+50		16
AC8.2	80+50		3 17
AC8.3	81+00	86+00	3 505
AC8.3	20+00	24+80	3 483
AC8.3	82+50		3 14
AC8.3	84+25		21
AC8.3	84+28		21
AC8.3	20+75		3 2
AC8.3	23+00		2
AC8.4	24+80	24+80	3 52
AC8.4	86+00	91+00	3 510
AC8.4	86+06		51
AC8.4	88+25		3 40
AC8.4	89+50		3 56
AC8.4	89+53		3 41
AC8.5	91+00	96+00	3 510
AC8.5	91+50		3 45
AC8.5	93+50		3 45
AC8.5	94+35		3 45
AC8.6	96+00	101+00	3 489
AC8.6	96+90		3 26
AC8.6	96+95		3 45
AC8.6	99+00		3 35

ITEM NO.			605 .0110
SHEET NUMBER	FROM ⊕/$ STATION NO.	TO ⊕/$ STATION NO.	6-INCH UNDERDRAIN PIPE
	UNIT		LIN. FT.
AC8.7	101+00	106+00	500
AC8.7	102+92		10
AC8.8	106+00	110+80	3 482
AC8.9	124+00	126+00	3 194
AC8.10	126+00	131+00	500
AC8.11	131+00	136+00	500
AC8.12	136+00	137+00	3 92
AC8.13	15+40	20+00	3 458
AC8.13	15+40		3 9
AC8.13	15+90		3 63
AC8.13	18+25		3 3
AC8.14	1+55	2+69.2	115
AC8.14	2+42.4		9
AC8.14	0+36.9	1+59.4	3 125
AC8.14	0+36.9	0+39.1	3 28
AC8.14	0+60		3 12
AC8.14	2+72.6	2+83	20
AC8.14	2+83	3+55	72
		TOTAL	3 6910

DATE	REVISION
6/20/03	3 Revised Quantities.

SHEET NUMBER	ITEM NO.	605 .2010	605 .2020	605 .2030	605 .2040	605 .2050	605 .2060	605 .3010	605 .3020	
	⊕/$ STATION NO.	CLEANOUT TYPE A	CLEANOUT TYPE B	CLEANOUT TYPE C	CLEANOUT TYPE D	CLEANOUT TYPE E	CLEANOUT TYPE F	UNDERDRAIN OUTLET TYPE 1	UNDERDRAIN OUTLET TYPE 2	
	UNIT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
AC8.1	74+73							1		
AC8.1	76+50	1								
AC8.2	78+50	1								
AC8.2	80+50	1								
AC8.3	82+50	1								
AC8.3	84+25	1								
AC8.3	84+28	1								
AC8.3	20+75		1							
AC8.3	23+00		1							
AC8.4	24+80			1						
AC8.4	86+06			1						
AC8.4	88+25			1						
AC8.4	89+50			1					1	
AC8.4	89+53			1						
AC8.5	91+50				1					
AC8.5	93+50				1					
AC8.5	94+55				1					
AC8.6	96+32				1					
AC8.7	102+92				1					
AC8.8	110+80			1						
AC8.13	15+40					1		1		
AC8.13	15+90				1	1				
AC8.13	18+25		1							
AC8.14	0+60						1			
AC8.14	0+36.9					1				
AC8.14	0+39.1					1				
AC8.14	1+59.4					1				
AC8.14	2+69.2					1				
AC8.14	2+42.4						1			
AC8.14	1+55					1				
AC8.14	3+55					1				
AC8.14	2+83					1				
	TOTAL	6	3	6	6	9	2	2	1	

ORIGINAL PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	202	816

LEGEND



4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 40'–0" o.c.

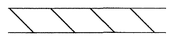


4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'–0" o.c.
(Tape, Type II or Thermoplastic Extrusion)

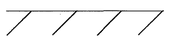


4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'–0" o.c. (Tape, Type II or Thermoplastic Extrusion)

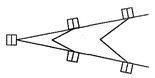
4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion except for bus bays)



Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)



Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)



Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)



Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)

Notes

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
3. Raised pavement markers shall not be installed within crosswalks.
4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
5. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
7. All pavement striping shall be as noted on the legend or plans.
8. Remove all curing compound or other deleterious material before application of primer or pavement markings or striping.
9. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
10. All thermoplastic extrusion pavement markings shall be applied in conjunction with an approved primer as recommended by the manufacturer and as approved by the Engineer.
11. All installed signs shall have the, route number, mile post (same as existing sign), date (date Contractor installs the sign), Contractor name and project number labeled on the back of the sign, in accordance with the Specifications.
12. The Barrier Guidance Stripe shall be re–installed by the Contractor.
13. Thermoplastic extrusion pavement markings shall have widths as shown on the plans.

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING LEGEND & NOTES

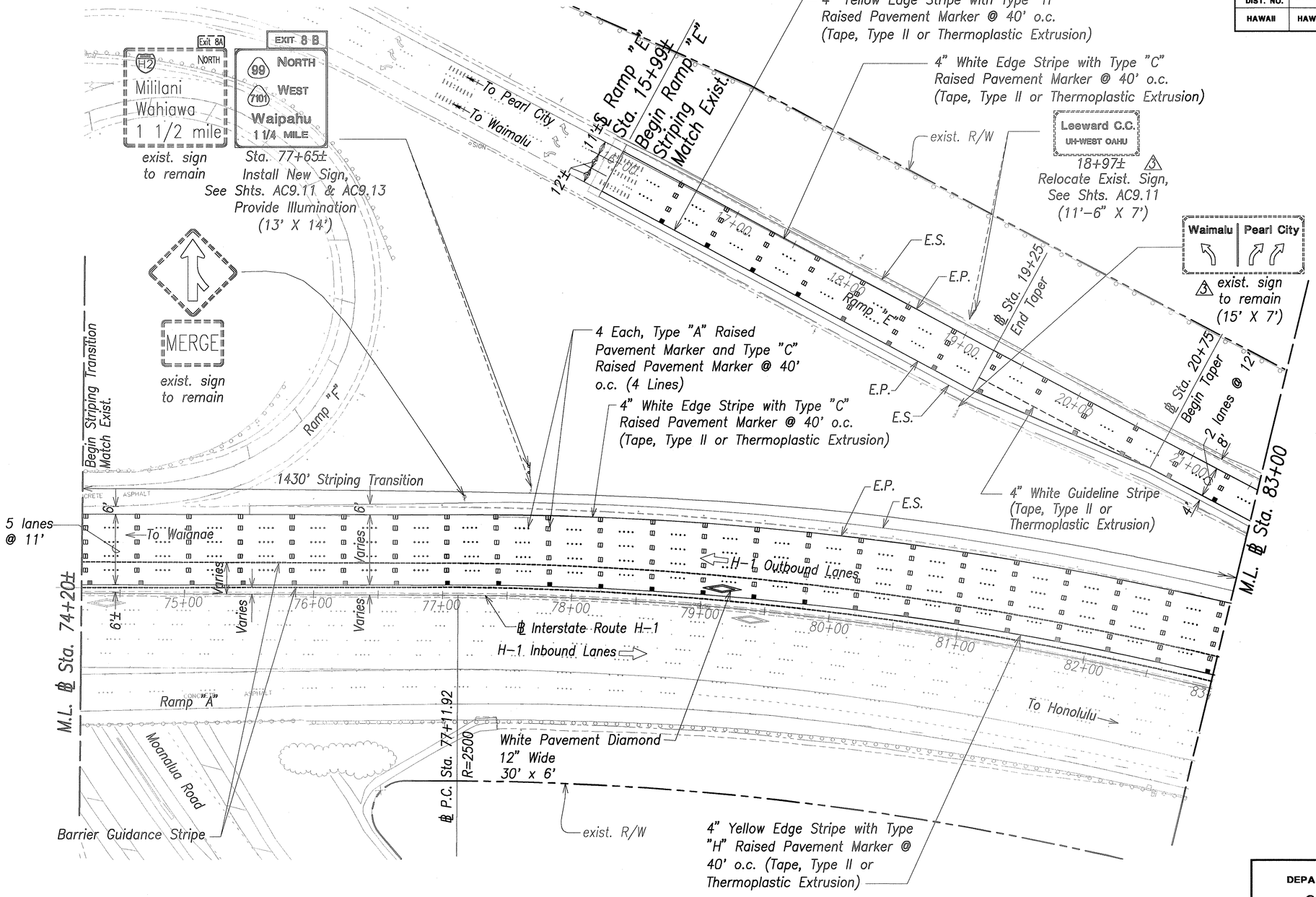
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC9.1 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 203	816



Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 7/9/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Relocate Sign. Added Exist. Sign

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

℄ STA. 74+20± TO ℄ STA. 83+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

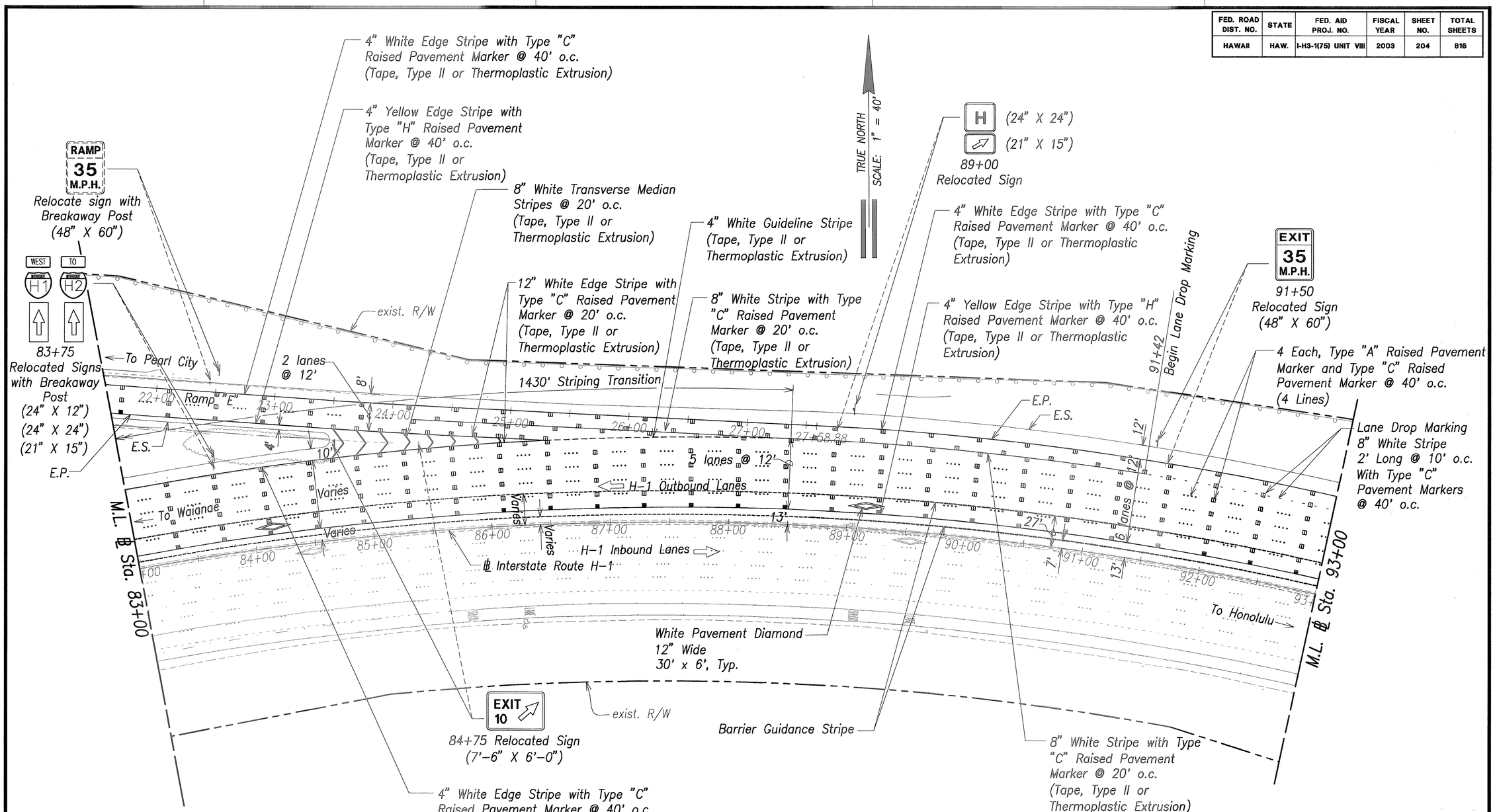
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC9.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 203

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	204	816



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

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

℄ STA. 83+00 TO ℄ STA. 93+00

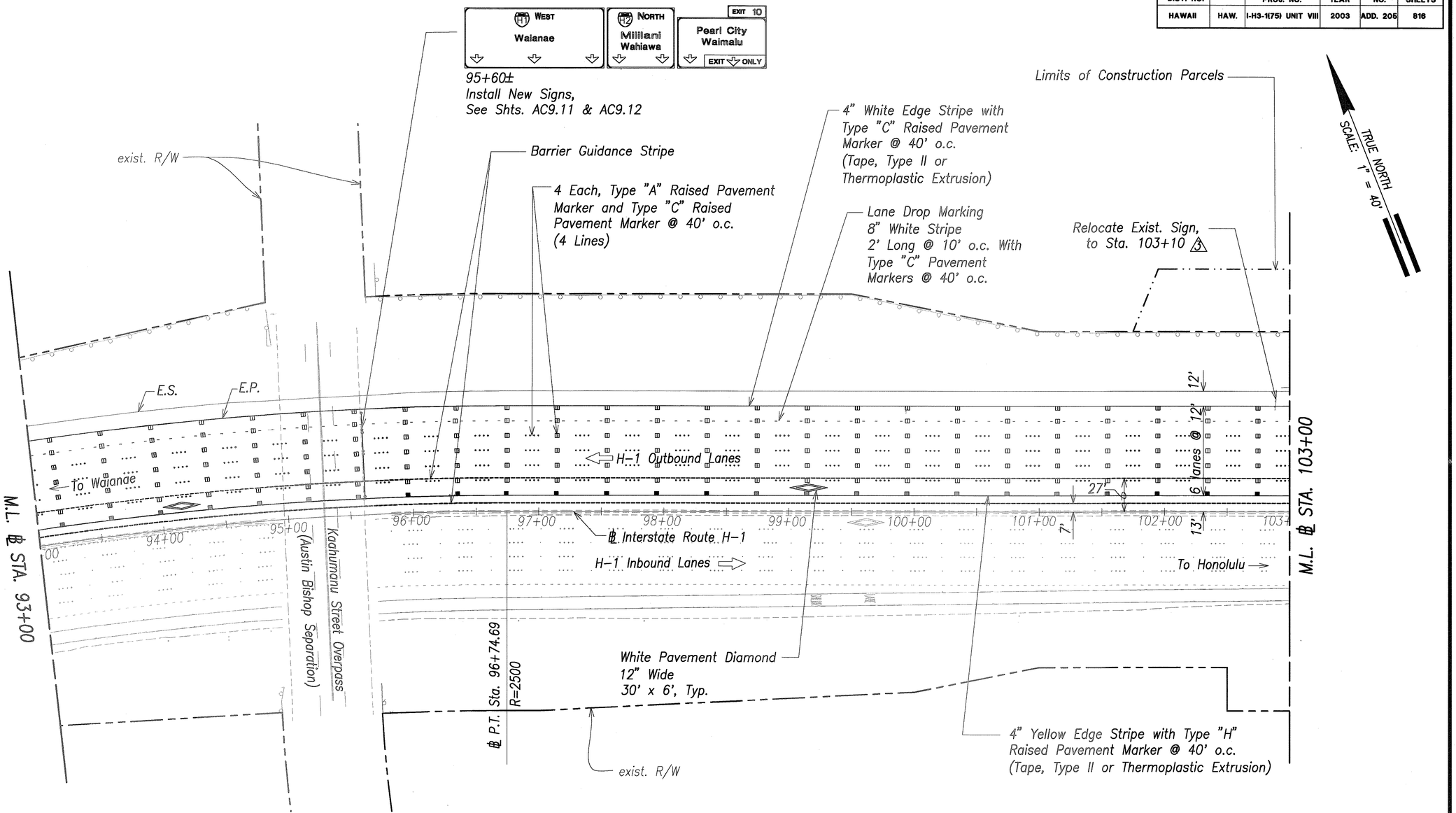
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC9.3 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 205	816



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

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/1/03 April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Added Callout.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

℄ STA. 93+00 TO ℄ STA. 103+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

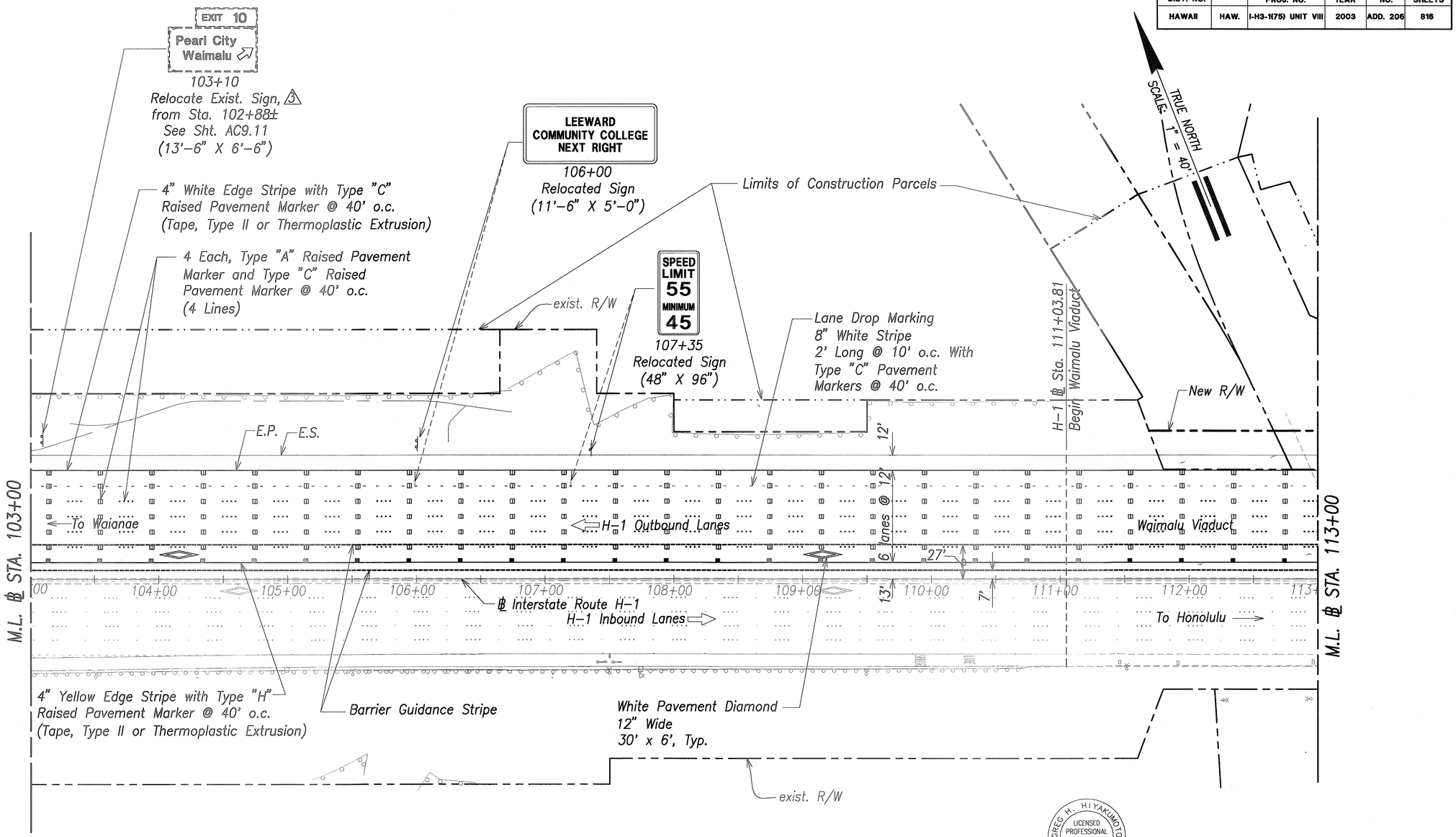
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC9.4 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 205

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 206	816



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

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Relocate Sign.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

℄ STA. 103+00 TO ℄ STA. 113+00

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

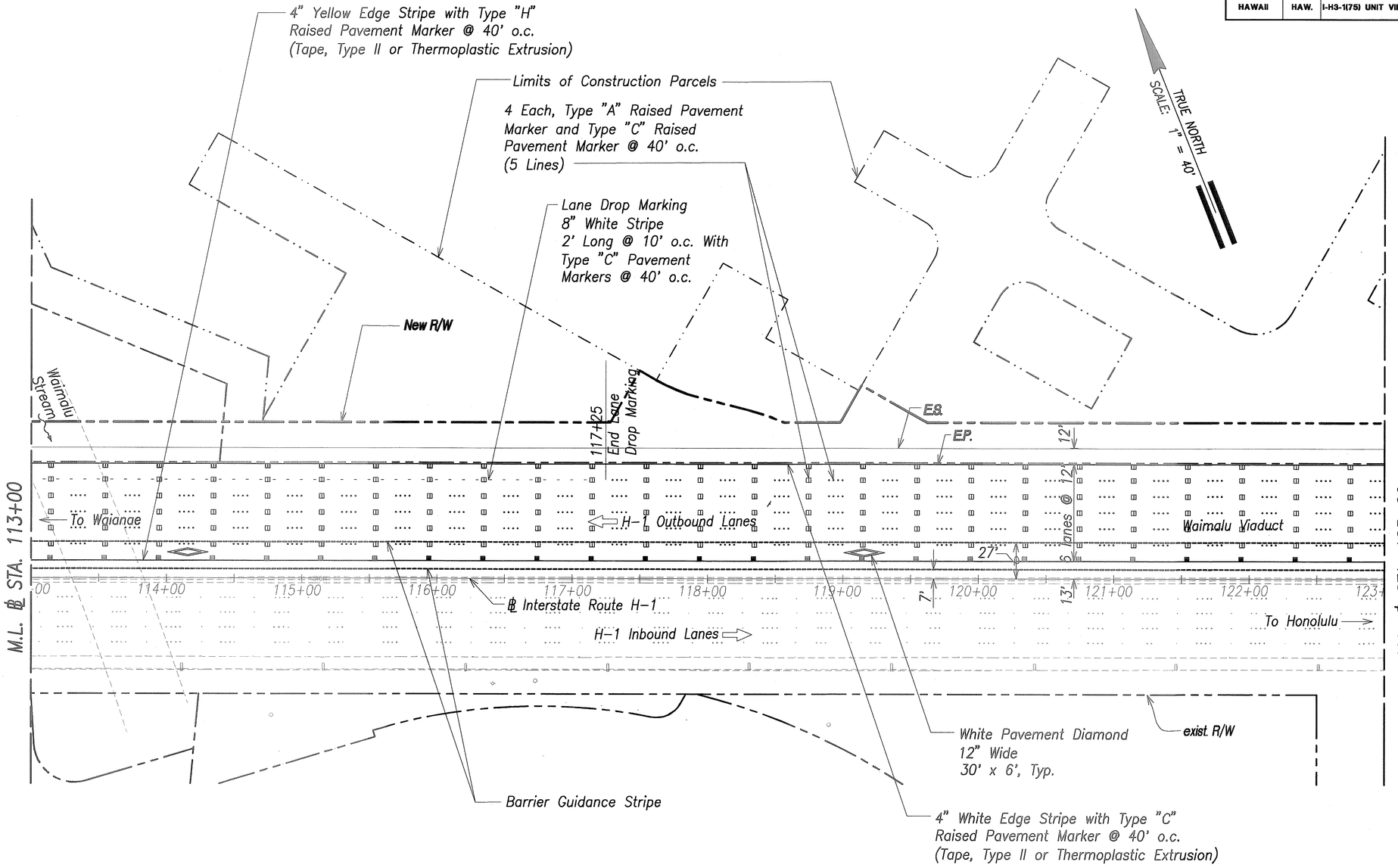
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC9.5 OF 350 SHEETS

RMTC JOB NO.: 1–19369–0E

ADD. 206

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	207	816



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

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREGG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

℄ STA. 113+00 TO ℄ STA. 123+00

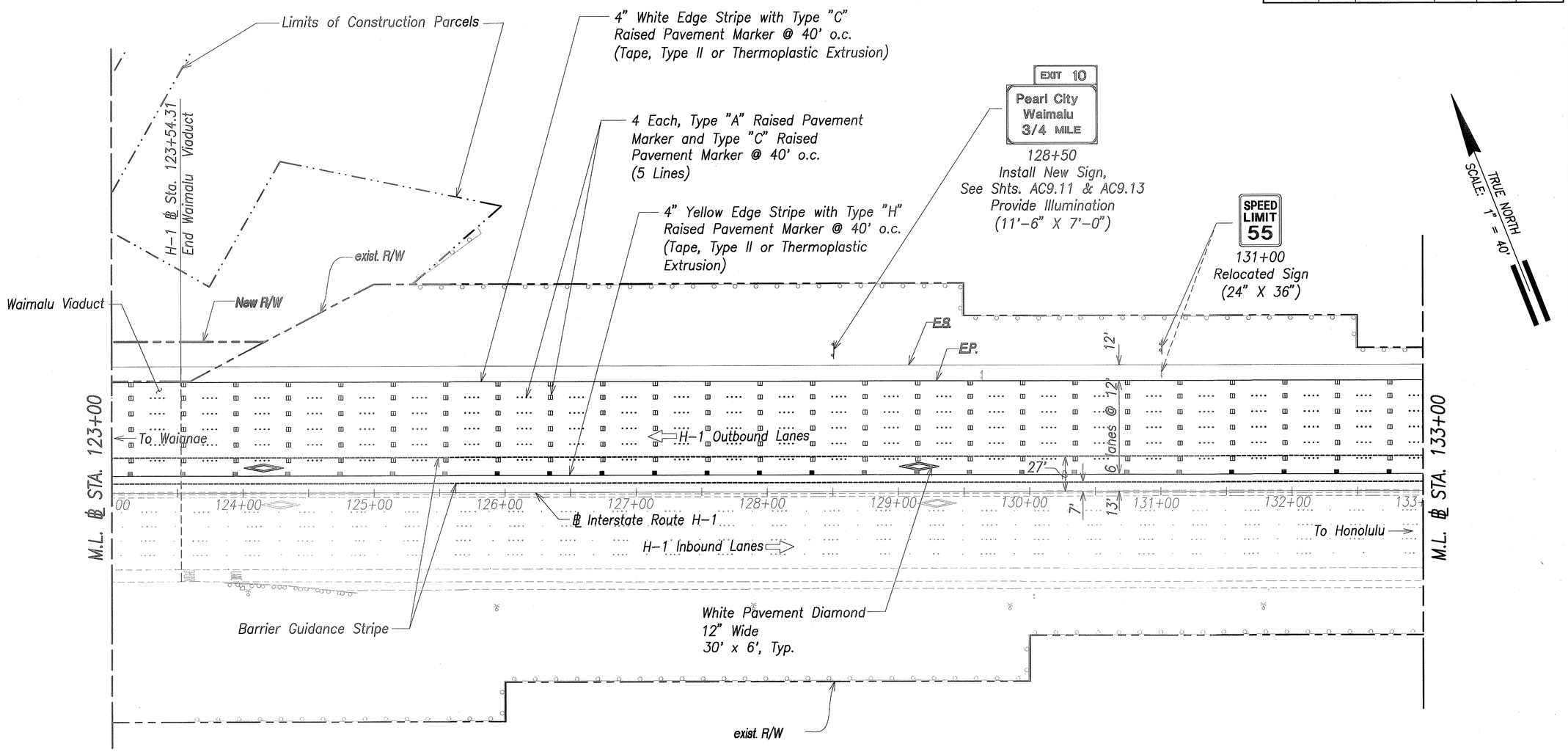
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC9.6 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	208	816



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

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

℄ STA. 123+00 TO ℄ STA. 133+00

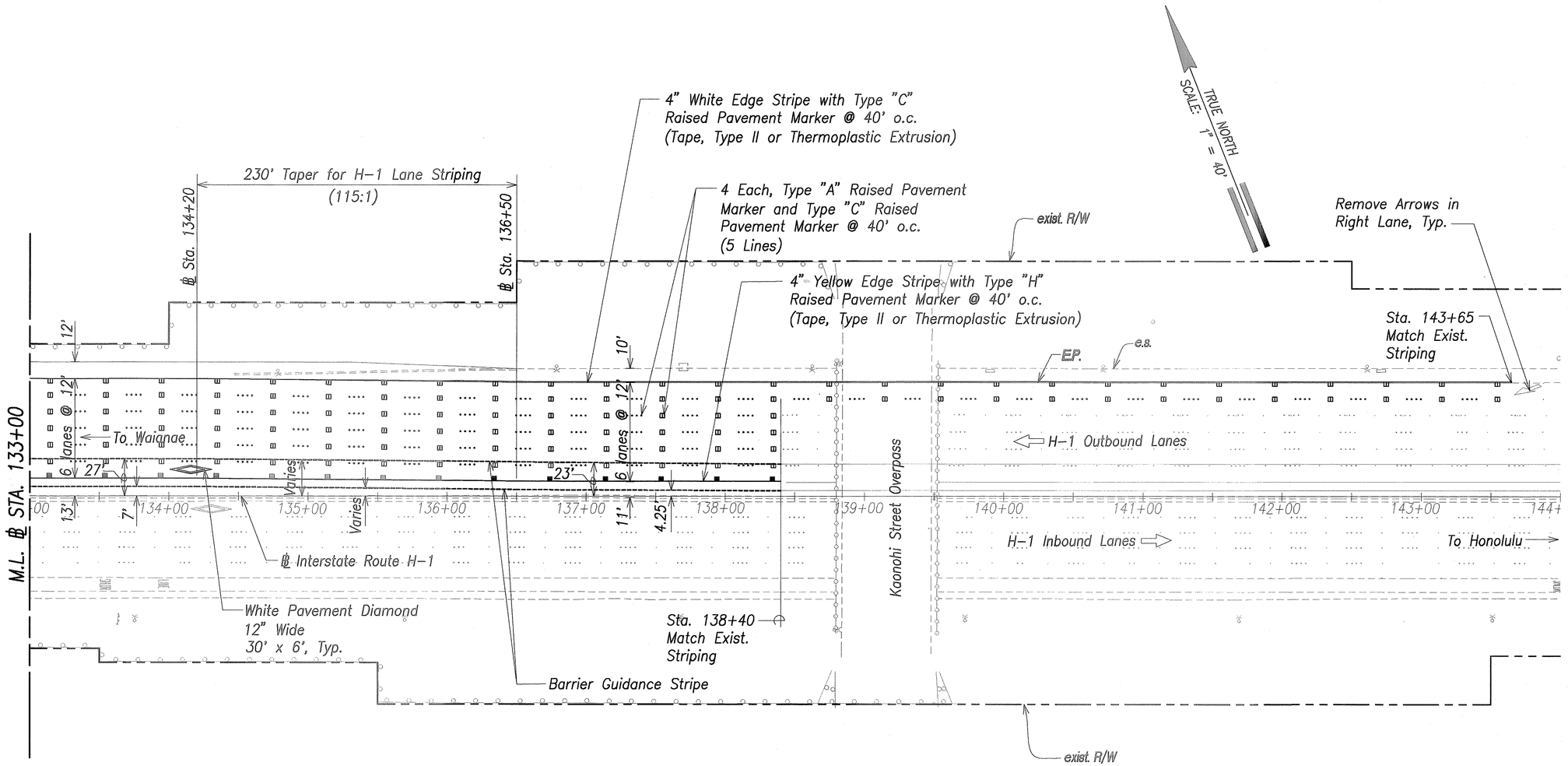
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC9.7 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	209	816



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

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN

℄ STA. 133+00 TO ℄ STA. 144+00

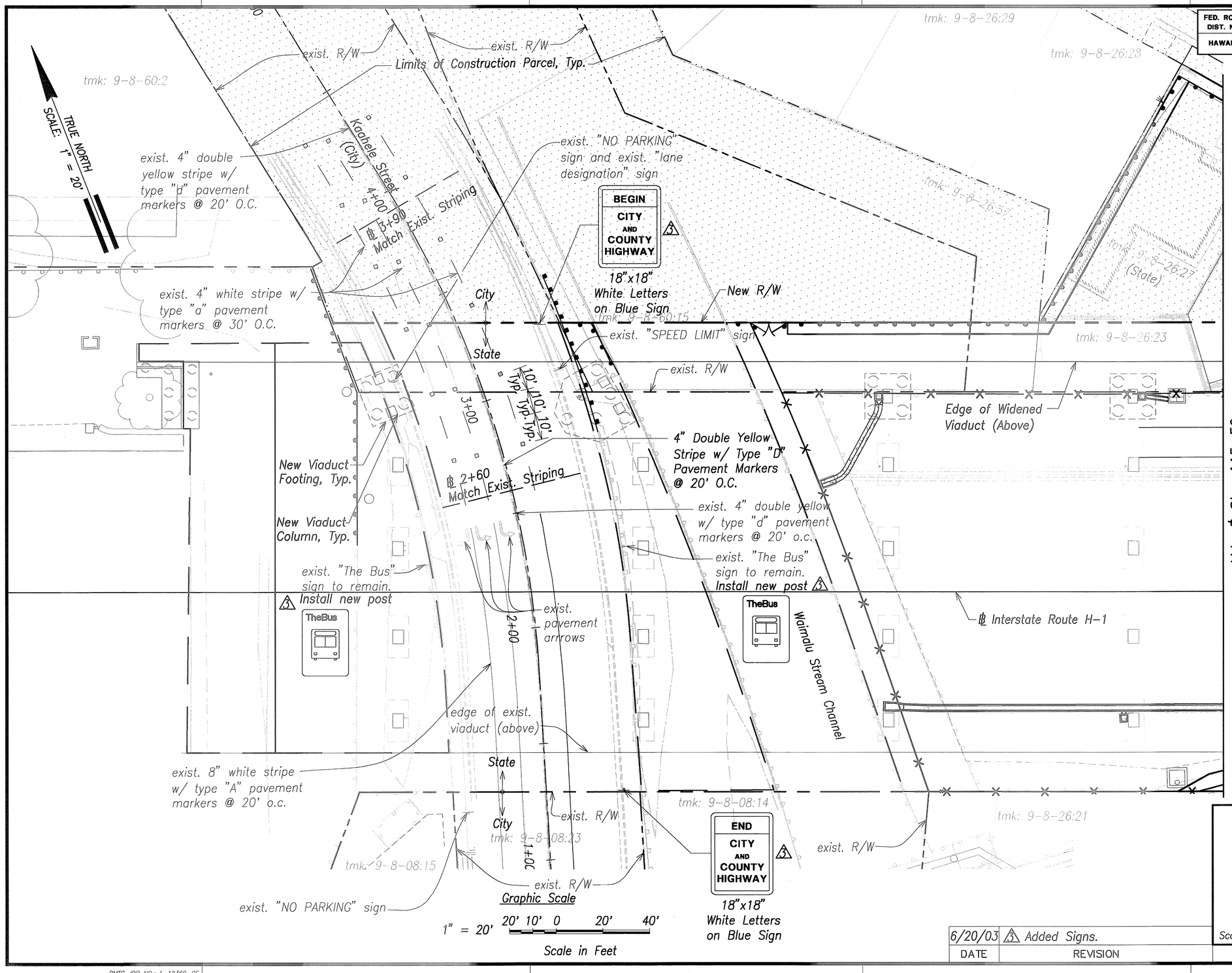
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC9.8 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 210	816



Legend

Construction Parcel

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 7/9/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

DATE	REVISION
6/20/03	3 Added Signs.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN
KAAHELE ST.

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

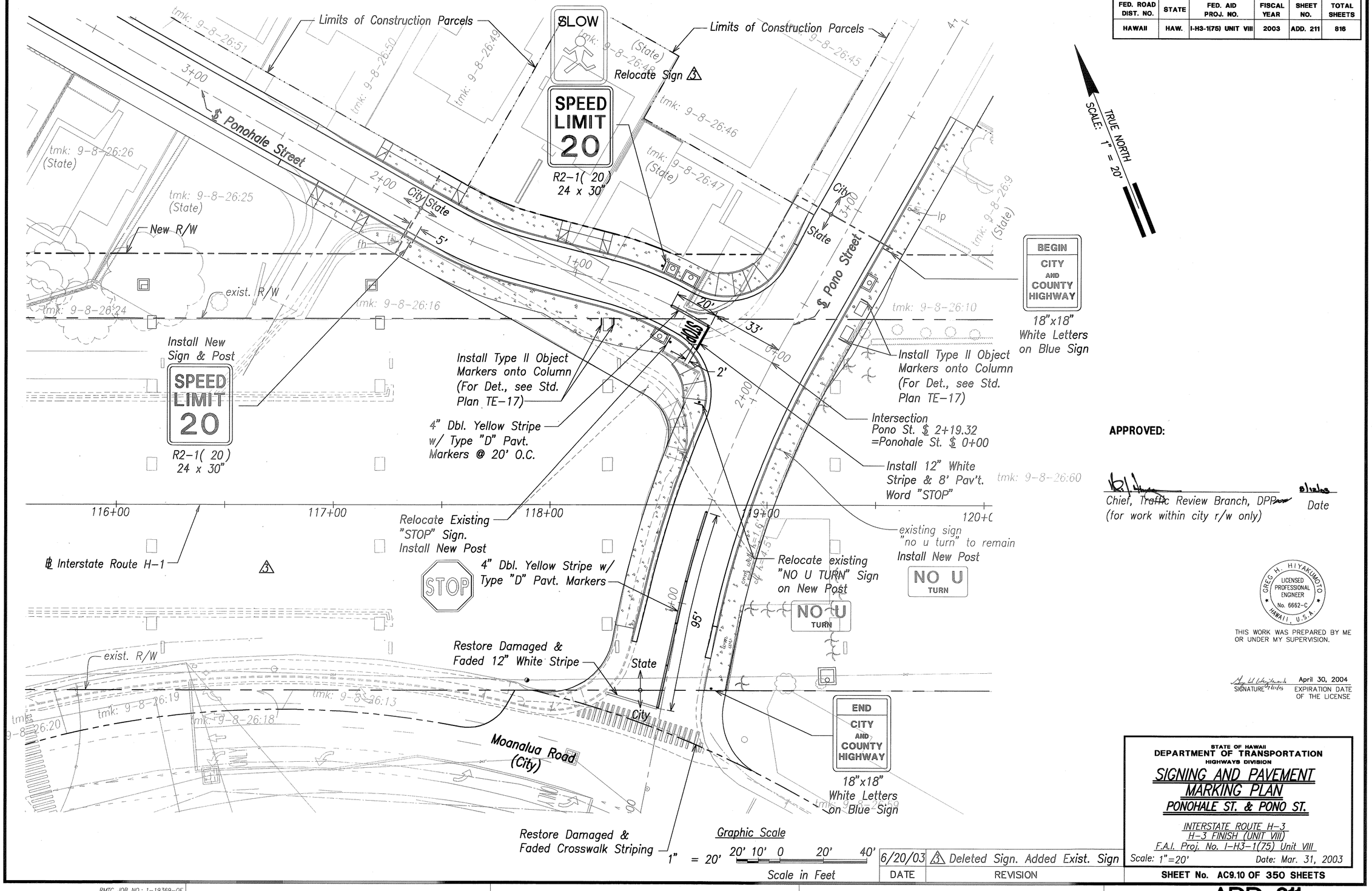
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC9.9 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 210

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 211	816



APPROVED:

Chief, Traffic Review Branch, DPP (for work within city r/w only) — Date

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING AND PAVEMENT MARKING PLAN
PONOHALE ST. & PONO ST.

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

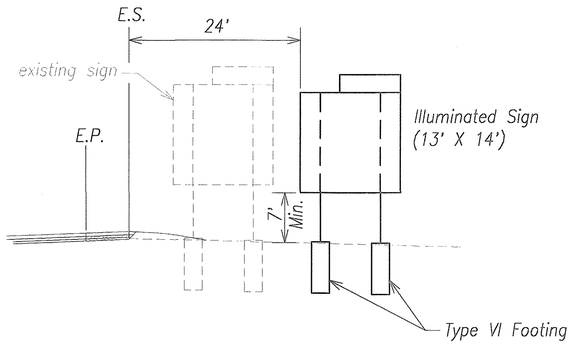
DATE	REVISION
6/20/03	3 Deleted Sign. Added Exist. Sign

SHEET No. AC9.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

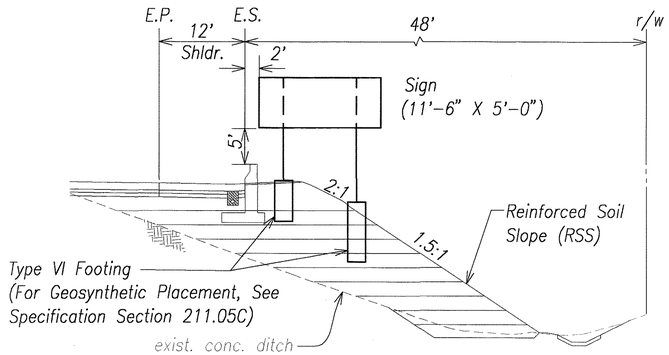
ADD. 211

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 212	816



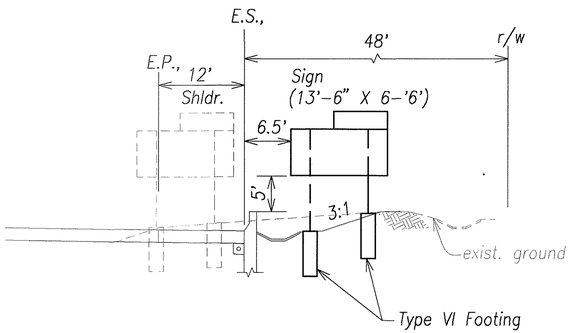
Sign Layout H-1 ℄ Sta. 77+65±

Scale: 1" = 10'



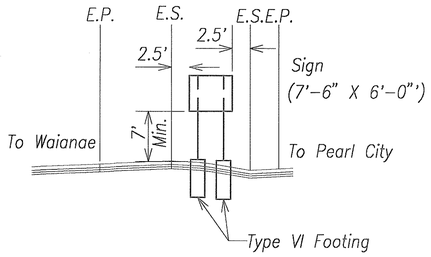
Sign Layout H-1 ℄ Sta. 106+00±

Scale: 1" = 10'



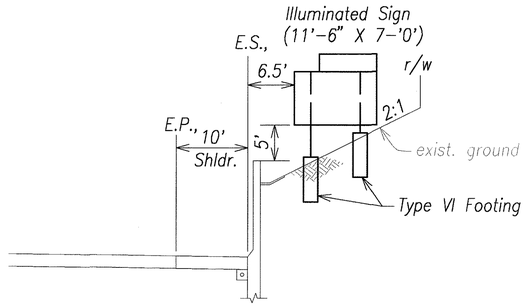
Sign Layout H-1 ℄ Sta. 103+10± 3

Scale: 1" = 10'



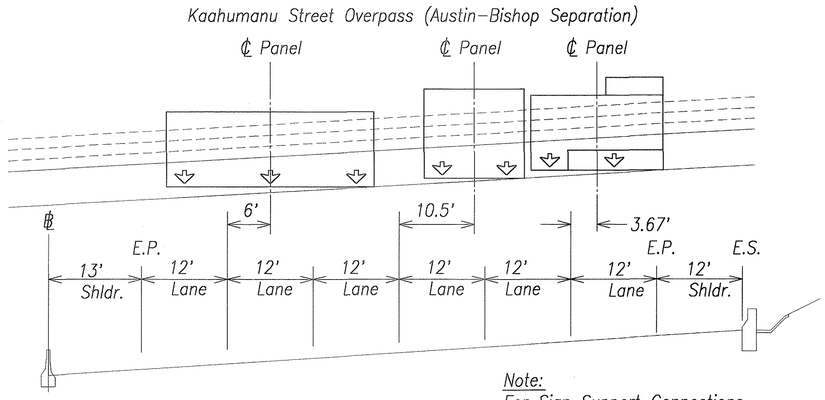
Sign Layout H-1 ℄ Sta. 84+75±

Scale: 1" = 10'



Sign Layout H-1 ℄ Sta. 128+50±

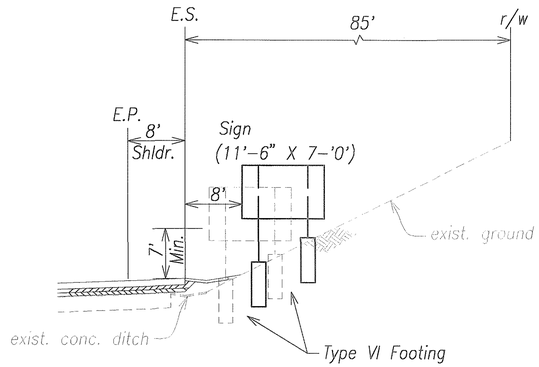
Scale: 1" = 10'



Note:
For Sign Support Connections,
See Shts. AW15.1 Through AW15.4 3

Sign Layout H-1 ℄ Sta. 95+60±

Scale: 1" = 10'



Sign Layout H-1 ℄ Sta. 18+97± 3

Scale: 1" = 10'

Notes:

1. For Dimensions Not Shown, See Standard Plans TE-23, TE-26 & TE-27.
2. For Type VI Footing, See Standard Plan TE- 23.

Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Note. New Sign Layout

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DESTINATION SIGN LAYOUTS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

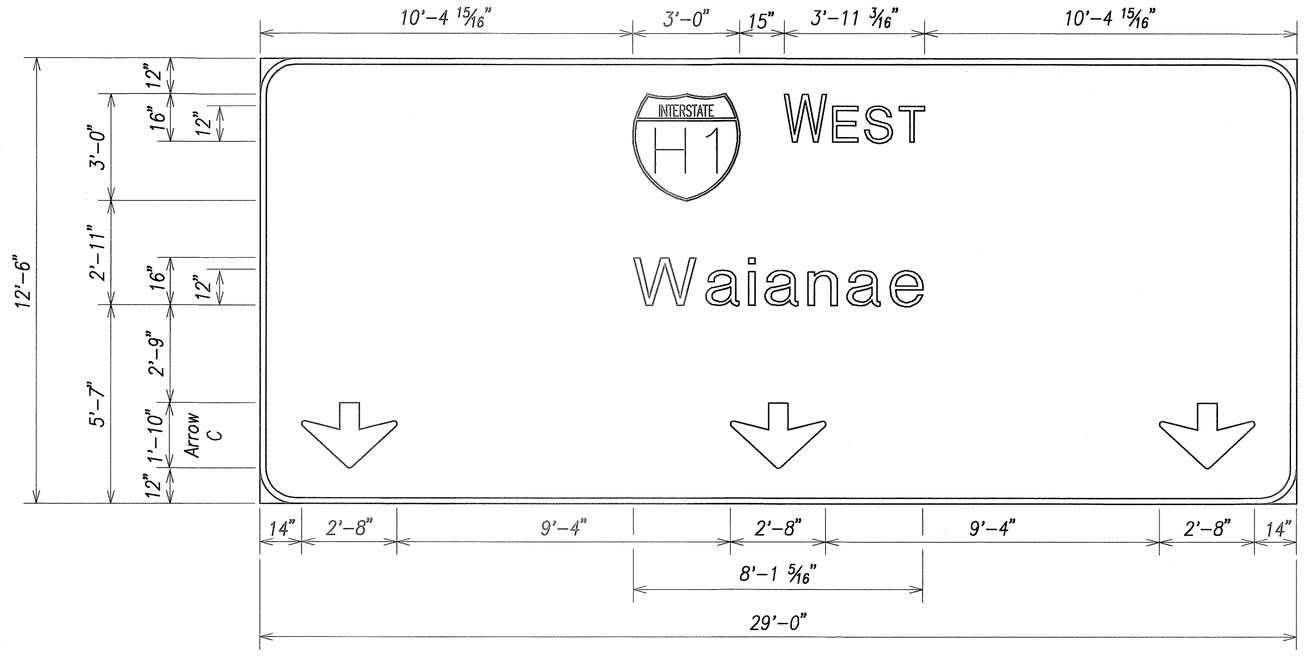
Scale: 1"=10' Date: Mar. 31, 2003

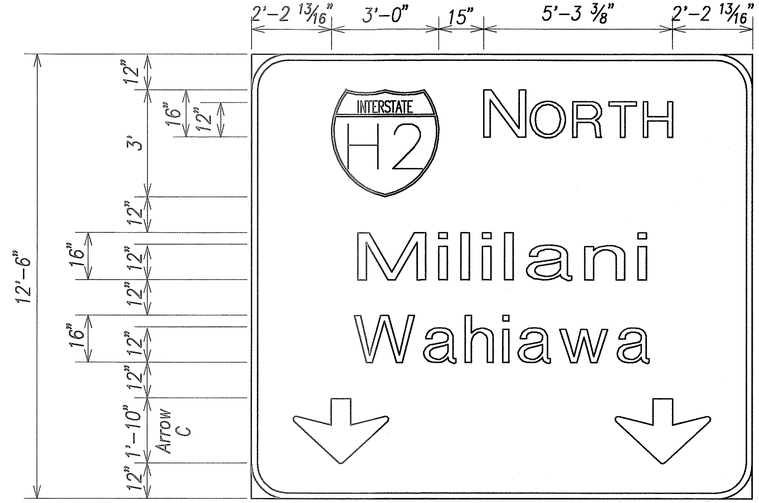
SHEET No. AC9.11 OF 350 SHEETS

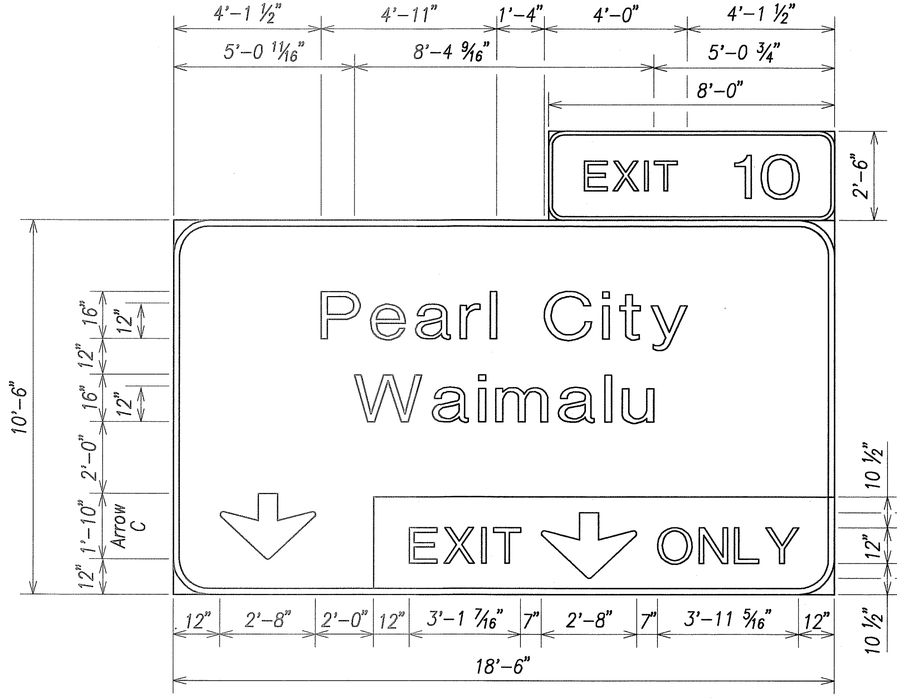
RMTC JOB NO.: 1-19369-0E

ADD. 212

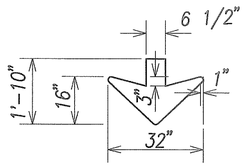
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	213	816







Destination Signs H-1 ℄ Sta. 95+60±
Scale: 1" = 2'



Arrow C
Scale: 1" = 2'

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DESTINATION SIGN DETAILS - 1

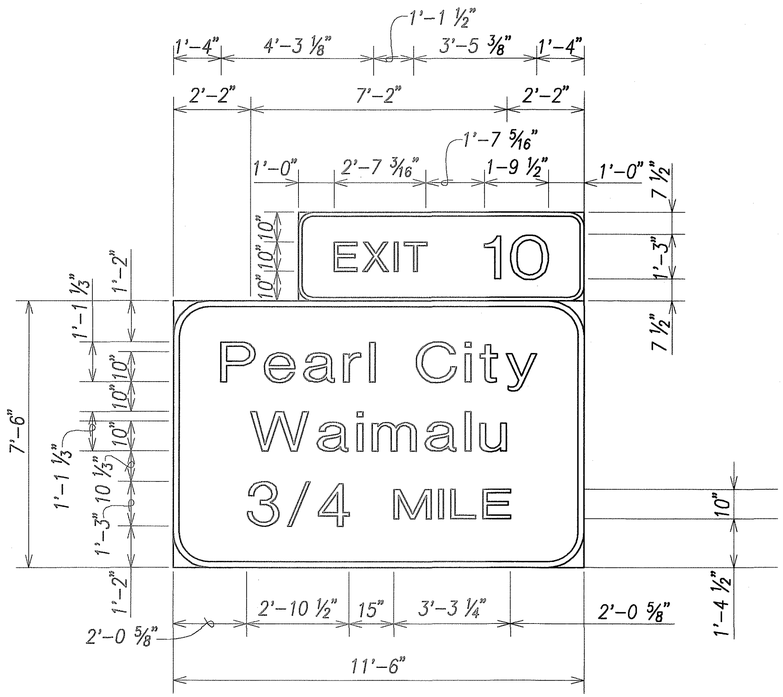
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=2'
Date: Mar. 31, 2003

SHEET No. AC9.12 OF 350 SHEETS

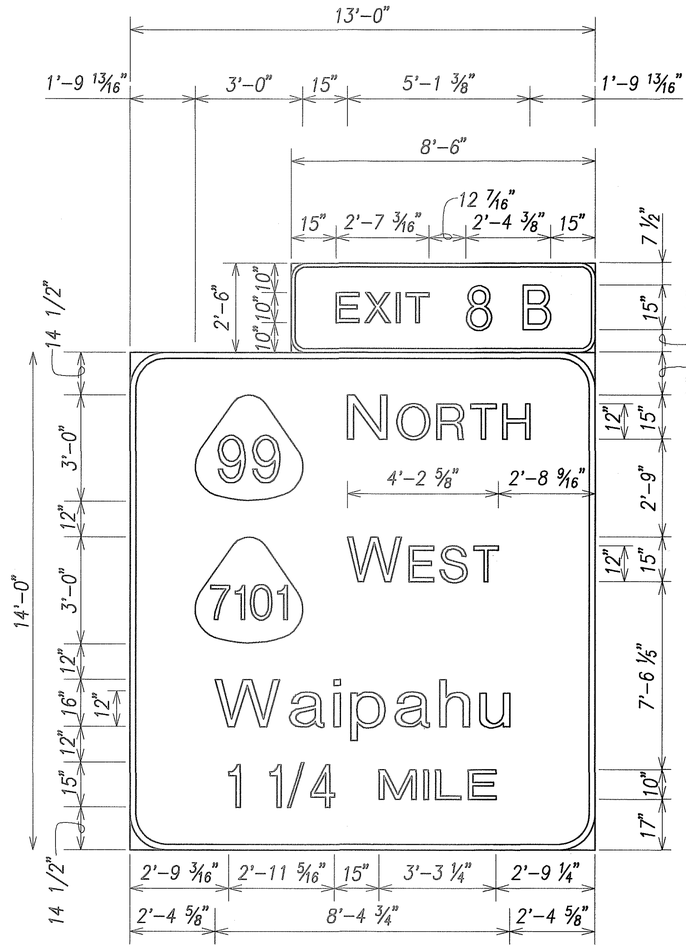
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	214	816



Destination Sign H-1 Ⓑ Sta. 128+50±

Scale: 1" = 2'



Destination Sign H-1 Ⓑ Sta. 77+65±

Scale: 1" = 2'

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DESTINATION SIGN DETAILS - 2

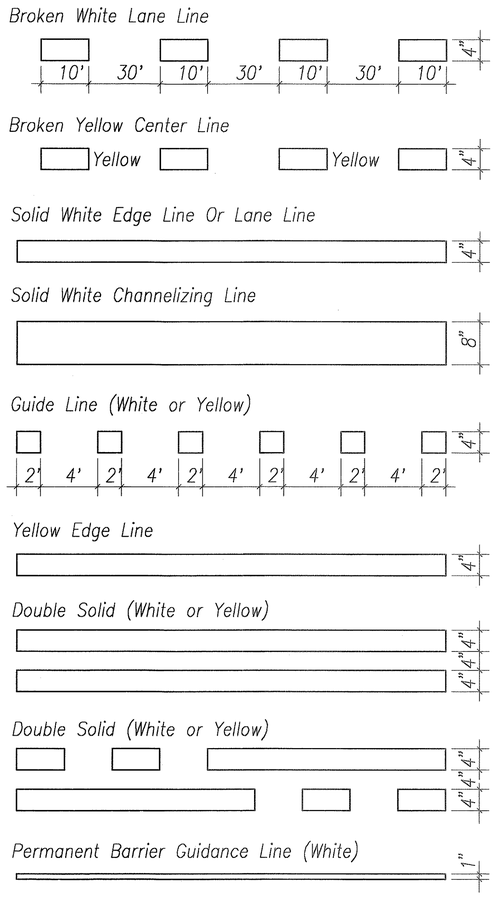
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=2' Date: Mar. 31, 2003

SHEET No. AC9.13 OF 350 SHEETS

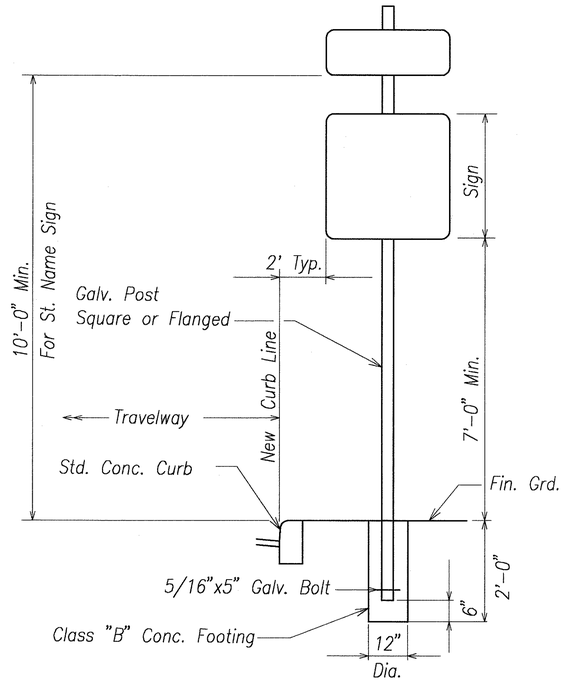
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	215	816



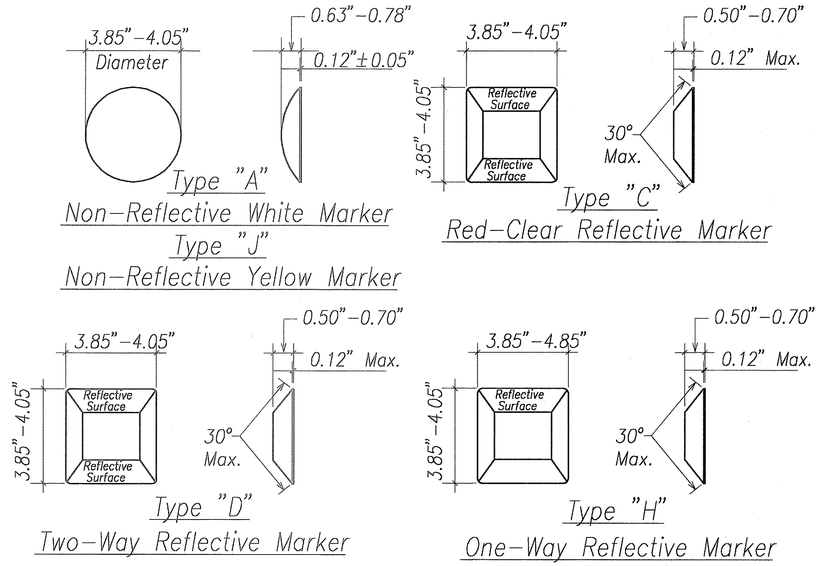
Types Of Longitudinal Lines

Scale: Not To Scale



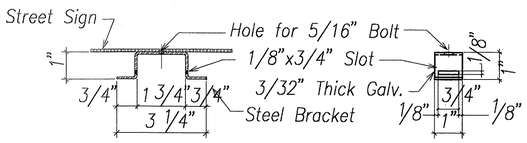
Installation Of Sign Post With Conc. Curb

Scale: Not To Scale



Standard Raised Pavement Markers

Scale: Not To Scale



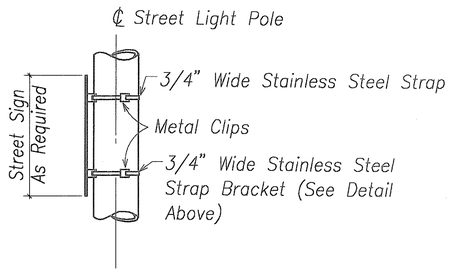
Bracket Detail

Scale: Not To Scale

- All sign installations shall provide required lateral & height clearances, including new signs that will be posted onto exist. sign posts. Extend, relocate or replace as required to meet clearance requirements.

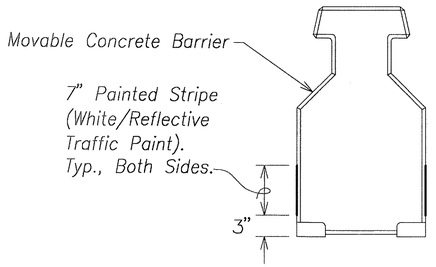
Sign Post Detail

Scale: Not To Scale



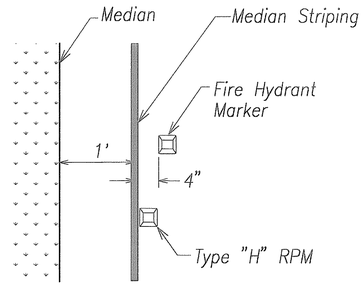
Strap Mounting Detail

Scale: Not To Scale



Reflective Traffic Paint For Movable Concrete Barrier

Scale: Not To Scale



Fire Hydrant Marker Location

Scale: Not To Scale

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGN DETAILS

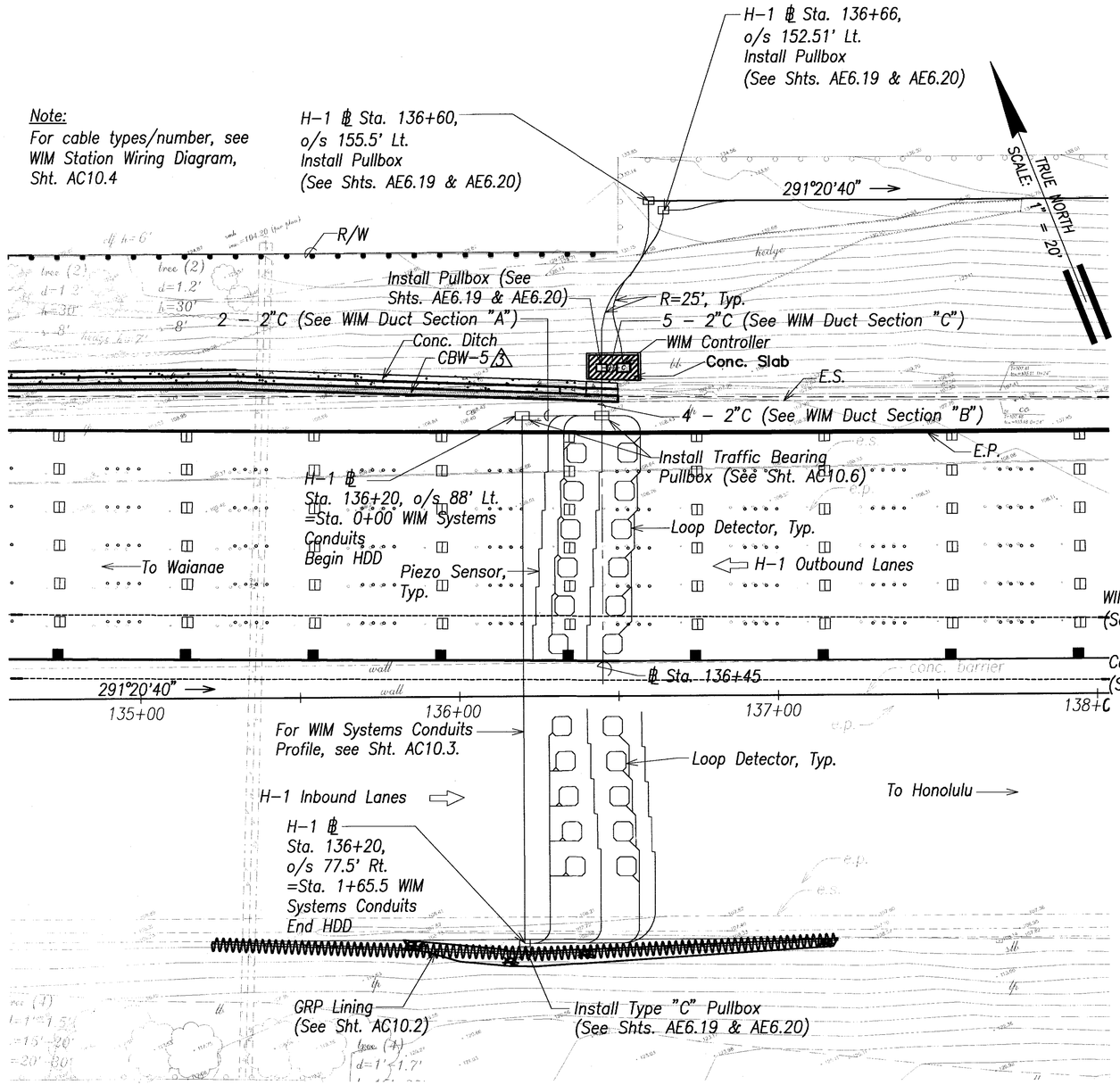
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not to Scale — Date: Mar. 31, 2003

SHEET No. AC9.14 OF 350 SHEETS

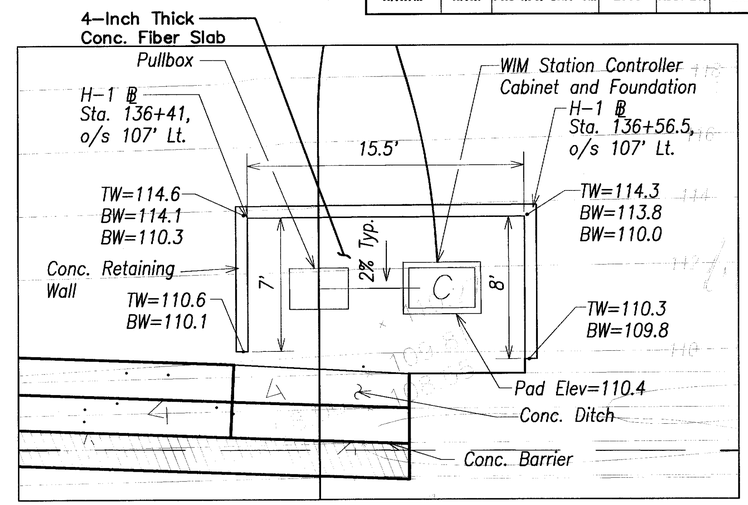
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 216	815



Weigh-In-Motion (WIM) Station Site Plan

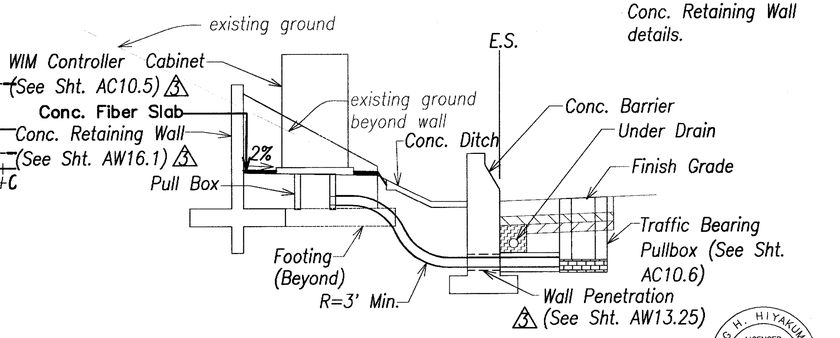
Scale: 1" = 20'



Grading Details

Scale: 1" = 4'

Note:
See AW Shts. for Conc. Retaining Wall details.



Section At Concrete Barrier

Scale: 1" = 4'

Note:
Contractor shall coordinate installation of Piezo Sensors and Loop Detectors such that construction activities do not interfere with the Zipper Lane Contra-Flow operations.

LEGEND FOR AS-BUILT POSTINGS

~~WWWW~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

Graphic Scales

1" = 20' — 20' 10' 0 20' 40' — Scale in Feet

1" = 4' — 4' 2' 0 4' 8' — Scale in Feet

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DATE	REVISION
6/29/06	Revised GRP Lining for WIM PB
6/20/03	3 Revised Callout and References.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEIGH-IN-MOTION STATION SITE PLAN

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. 1-H3-1(75) Unit VIII

Scale: As Shown — Date: Mar. 31, 2003

SHEET No. AC10.1 OF 350 SHEETS

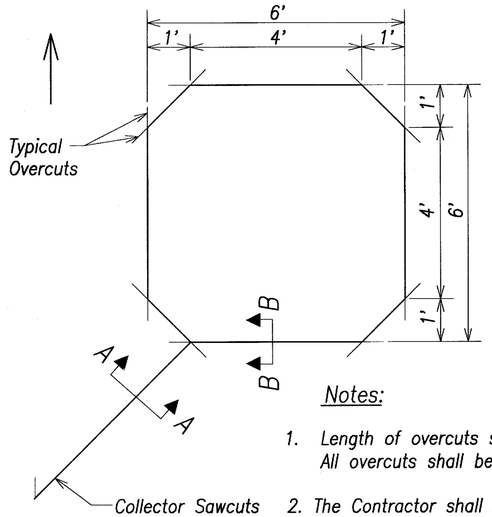
ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

NOTE BOOK | No.

RMTC JOB NO.: 1-19369-OE

"AS-BUILT" ADD. 216

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 217	815

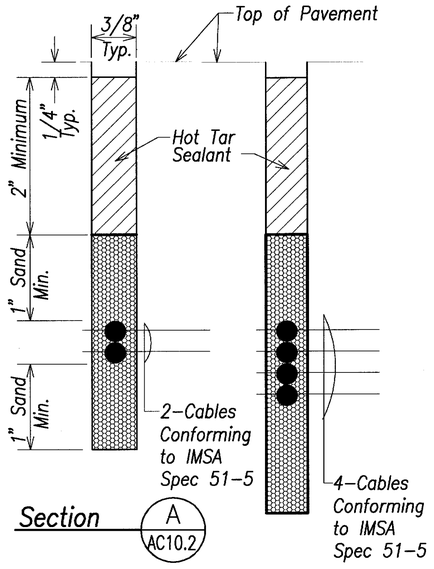


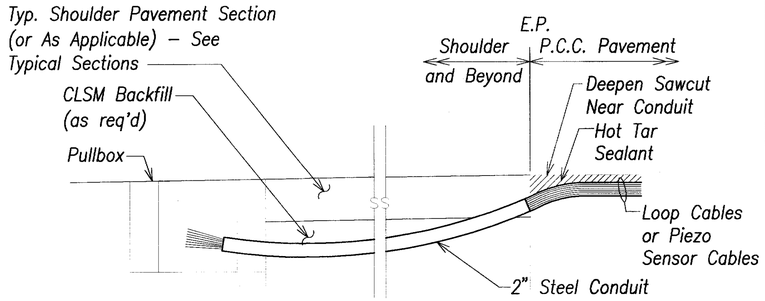
Notes:

1. Length of overcuts shall be kept to a minimum. All overcuts shall be backfilled with hot tar.
2. The Contractor shall lay out the loop detectors so that the cutting of the pavement will not cut the existing dowels.

Typical Sensor Loop Sawcut Detail

Scale: Not To Scale



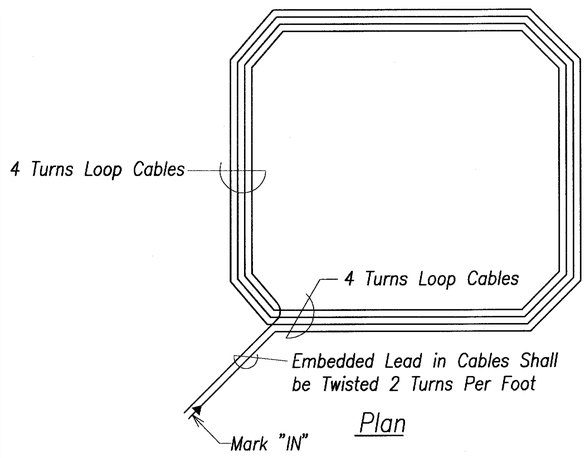


Notes On Construction At End Of Sawcut

1. Seal roadway end of conduit after installation of conductors
2. Place hot tar in sawcut.
3. Backfill over conduit with new CLSM and reconstruct pavement as required.

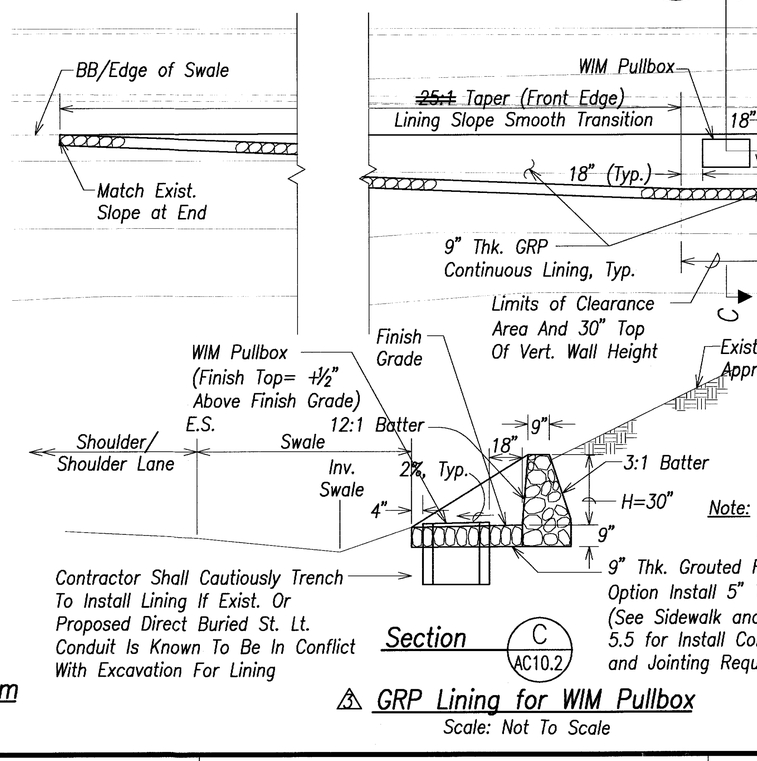
Detail of Conduit to Sawcut Transition for Loop Detectors and Piezo Sensors

Scale: Not To Scale



Typical Sensor Loop Wiring Diagram

Scale: Not To Scale



Note: End Cutoff Wall When H (Vert. Wall Height) = 24"

⚠3 GRP Lining for WIM Pullbox

Scale: Not To Scale

LEGEND FOR AS-BUILT POSTINGS

~~WWWW~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

DATE	REVISION
6/29/06	Revised GRP Lining for WIM PB
6/20/03	⚠3 Revised Title; Added "GRP Lining for WIM Pullbox" Detail.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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⚠3

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEIGH-IN-MOTION STATION MISCELLANEOUS DETAILS – 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale — Date: Mar. 31, 2003

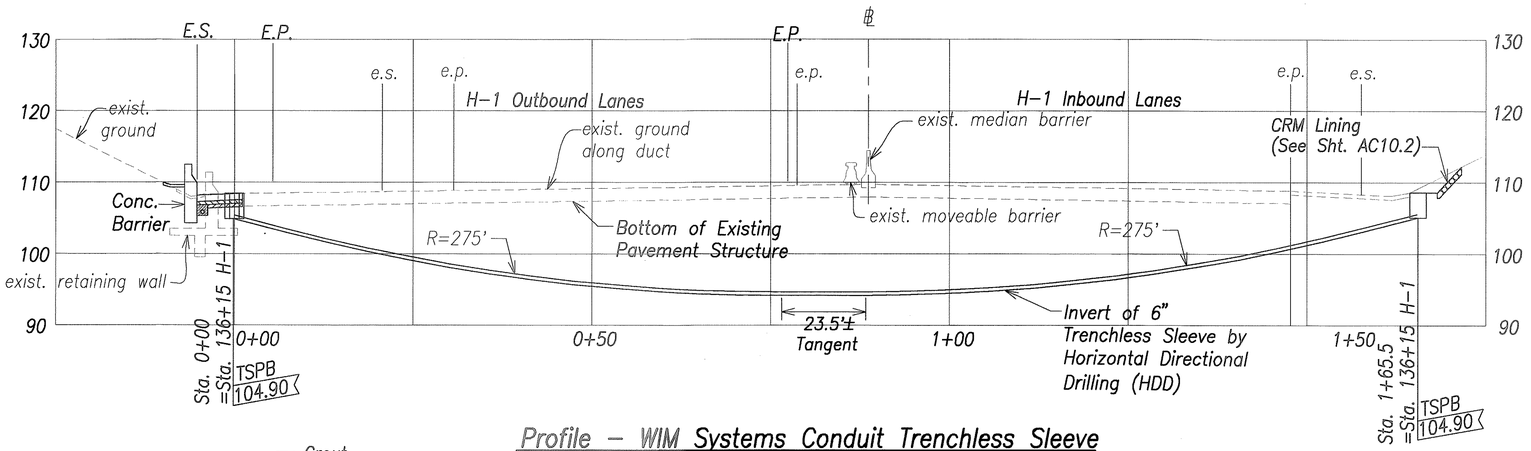
SHEET No. AC10.2 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

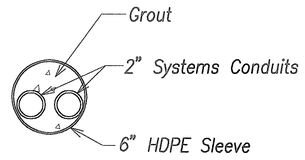
"AS-BUILT" ADD. 217

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 218	816



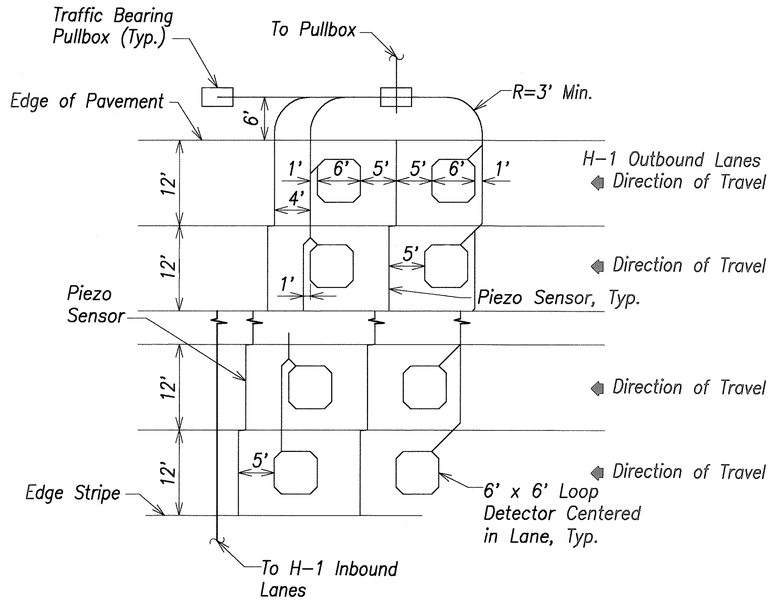
Profile – WIM Systems Conduit Trenchless Sleeve

Scale: 1" = 10'



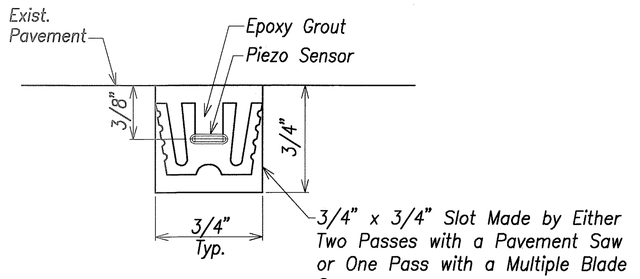
Systems Conduit Trenchless Sleeve Detail

Scale: 1/2" = 1'–0"



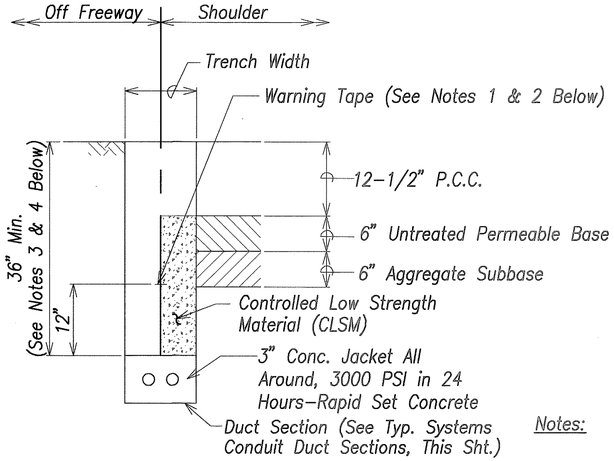
Weigh–In–Motion (WIM) System Layout

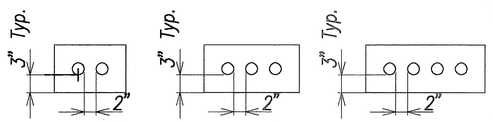
Scale: Not To Scale



Piezo Sensor Detail

Scale: Not To Scale





⚠3 Systems Conduit Duct Sections

Scale: 1" = 1'–0"

Notes:

1. Warning Tape shall be 8 mil thick red colored plastic wiring tape, 3" wide with continuous metallic backing and corrosion resistant foil core inscribed with: "CAUTION–ELECTRICAL LINE BURIED BELOW" in black lettering, repeated at 36" intervals.
2. Install Warning Tape 3" below bottom of concrete ditch or underdrain where duct crosses below concrete ditch or underdrain.
3. Provide 6" min. clear between bottom of concrete ditch and top of duct encasement where duct crosses below concrete ditch.
4. Provide 6" min. clear between bottom of underdrain and top of duct encasement where duct crosses below underdrain.

Notes:

1. Layout for inbound lanes similar.
2. The Contractor shall submit layout of loop detectors and piezo sensors for approval by the Engineer.
3. The Contractor shall lay out the loop detectors so that the cutting of the pavement will not cut the existing dowels.

Graphic Scales

1" = 10' — 10' 5' 0 10' 20' — Scale in Feet

1" = 1'–0" — 1' 1/2' 0 1' 2' — Scale in Feet

1/2" = 1"–0" — 2 1' 0 2' 4' — Scale in Feet

DATE	REVISION
6/20/03	⚠3 Revised Title and "System Conduit Duct Sections".

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE 7/9/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

⚠3

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEIGH–IN–MOTION STATION MISCELLANEOUS DETAILS – 2

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

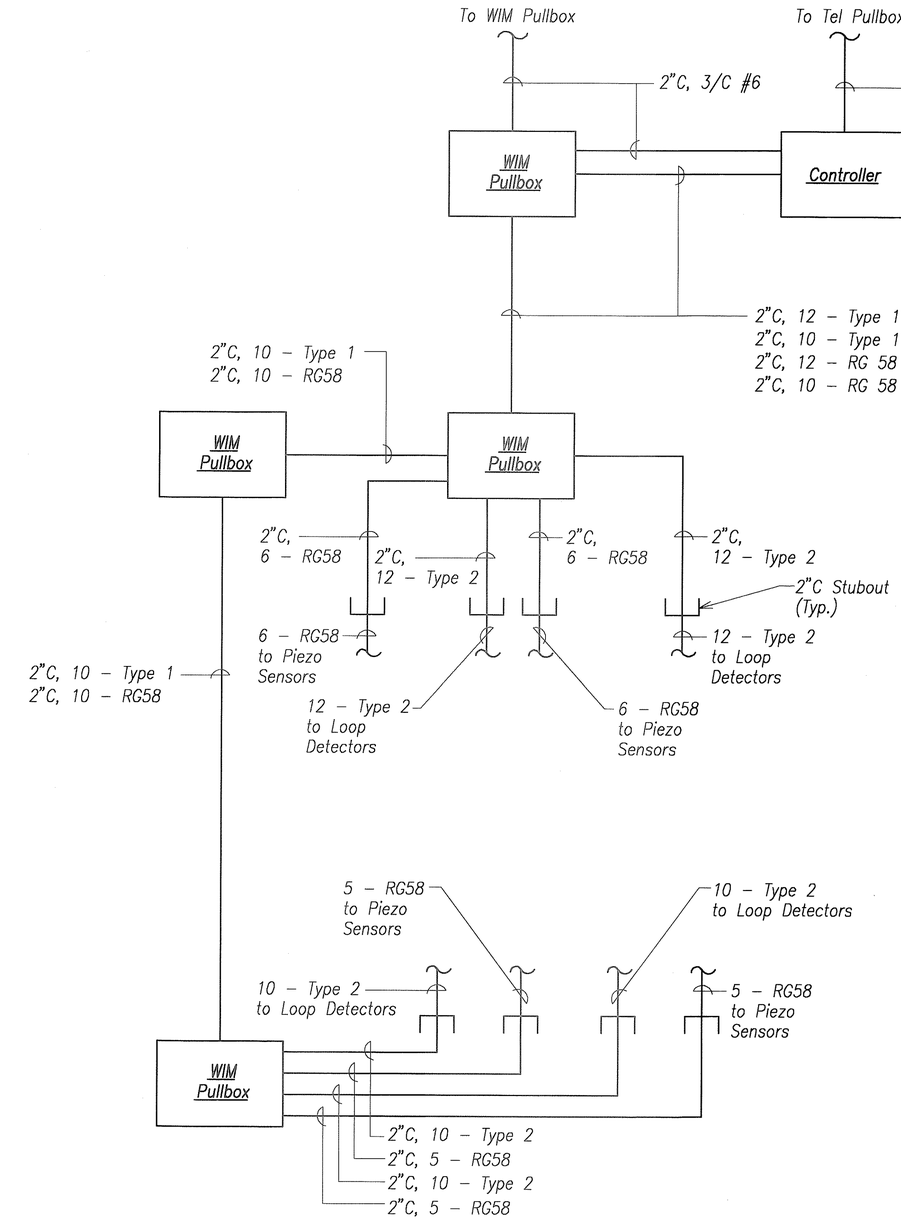
Scale: As Shown — Date: Mar. 31, 2003

SHEET No. AC10.3 OF 350 SHEETS

RMTC JOB NO.: 1–19369–0E

ADD. 218

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 219	816



WIM Station Wiring Diagram

Scale: Not To Scale

WIM Station Schedule Of Items Under Lump Sum Pay Item (5)

Item	Quantity	Units
Sitework		
Stakeout (1 Each)	L.S.	L.S.
Structure Excavation for Concrete Retaining Wall	42	Cu.Yd.
Structure Backfill for Concrete Retaining Wall	28	Cu.Yd.
Two 4-inch PVC Schedule 40 Conduit HECO Ductline Encased in Concrete	125	Lin. Ft.
One 1-inch PVC Schedule 80 Conduit Ductline Encased in Concrete for Controller	250	Lin. Ft.
One 2-inch PVC Schedule 80 Conduit Ductline Encased in Concrete with 3/C #6 Cable for Controller	250	Lin. Ft.
One 2-inch PVC Type GTS Verizon Ductline Encased in Concrete	80	Lin. Ft.
Two 2-inch PVC Schedule 80 Conduit Ductline Encased in Concrete for Controller	170	Lin. Ft.
Four 2-inch PVC Schedule 80 Conduit Ductline Encased in Concrete for Controller	21	Lin. Ft.
Concrete for Retaining Wall		Cu.Yd.
Gouted Rubble Paving for GRP Lining	20	Cu.Yd.
Furnish & Install Transformer Pad	1	Each
Furnish & Install Metering Cabinet and Service Equipment	1	Each
Pullbox, Type "C", including Frame & Cover	2	Each
Traffic Bearing Pullbox, including Frame & Cover	2	Each
WIM System		
Furnish & Install Piezoelectric Sensor	2	Each
Furnish & Install Vehicle Detector Loops	22	Each
Furnish & Install Loop Detector Cable (1 Each)	L.S.	L.S.
Furnish & Install Piezoelectric Sensor Cable (1 Each)	L.S.	L.S.
Furnish & Install Controller Cabinet, including: structure excavation & backfill for foundation; concrete for foundation (Class B); and furnishing & installing WIM Evaluation & Data Collection Unit	1	Each
Furnish & Install Portable Terminal	1	Each
Train State Personnel (10 Each)	L.S.	L.S.
Testing, including Calibration and Systems Integration Testing and Piezoelectric Sensor Testing (Each)	L.S.	L.S.

Notes:

1. Trench excavation, backfill, pipe penetrations through walls and barriers, concrete for concrete jacket, and pavement sawcutting & patching shall be considered incidental to the cost of the various Conduit Ductline items.
2. Work related to Trenchless Sleeves shall be paid for under Section 680 – Trenchless Sleeves.

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

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Greg H. Hiyakumoto 4/30/04
SIGNATURE 4/30/06 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEIGH-IN-MOTION STATION WIRING DIAGRAM

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

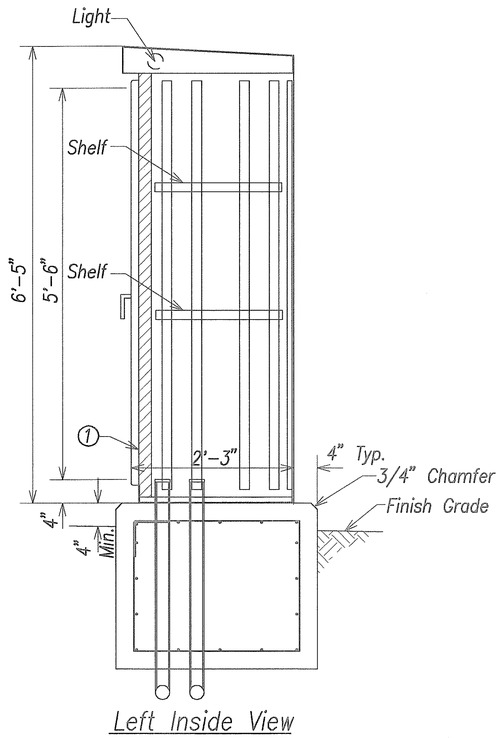
DATE	REVISION
10/16/03	(5) Revised Schedule of Items.

SHEET No. AC10.4 OF 350 SHEETS

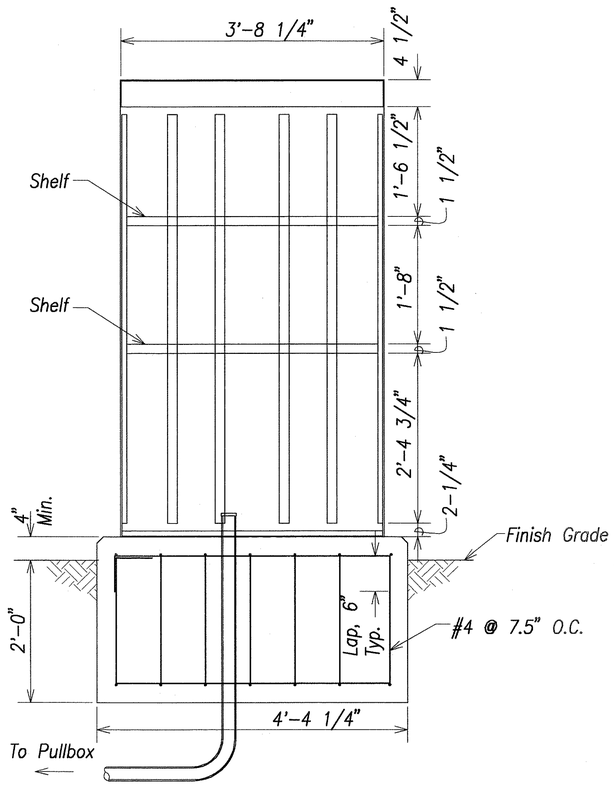
RMTC JOB NO.: 1-19369-OE

ADD. 219

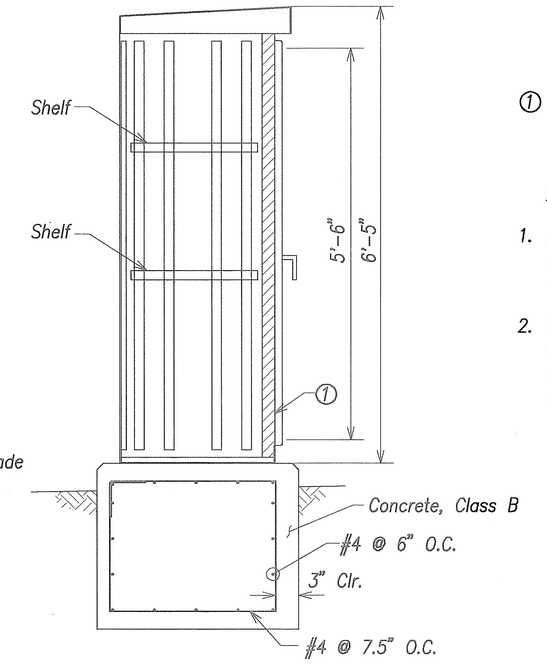
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	220	816



Left Inside View



Front Inside View



Right Inside View

WIM Station Controller Cabinet

Scale: 1" = 1'-0"

Legend:

① Equipment Exclusion Zone.

Notes:

1. Contractor shall verify location of conduit risers with WIM controller cabinet specifications.
2. WIM controller cabinet shall be installed with stainless steel anchor bolts per Manufacturer's recommendations.

Graphic Scale

1" = 1'-0" 1' 1/2' 0 1' 2'

Scale in Feet

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

GREGG H. HIYAKUMOTO * LICENSED PROFESSIONAL ENGINEER * No. 6662-C * HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEIGH-IN-MOTION CONTROLLER CABINET

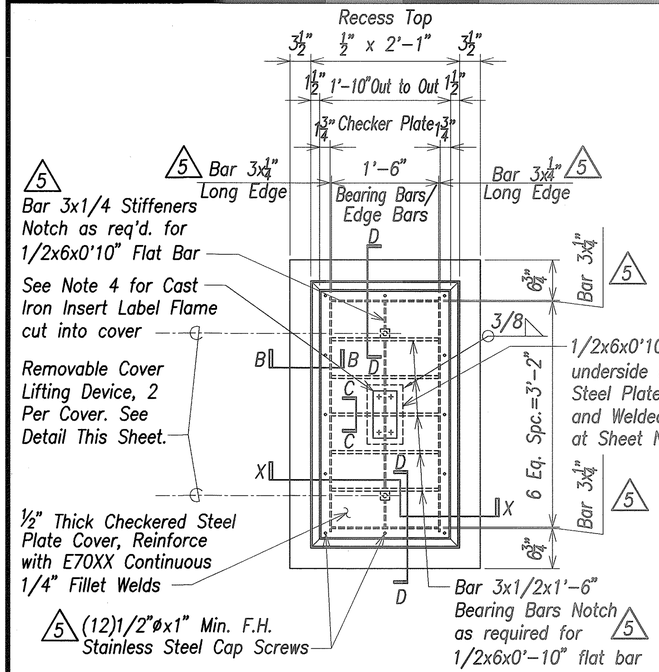
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=1' Date: Mar. 31, 2003

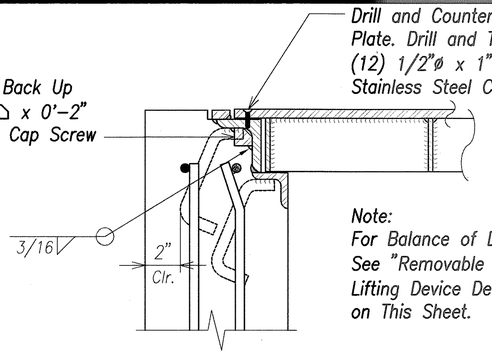
SHEET No. AC10.5 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

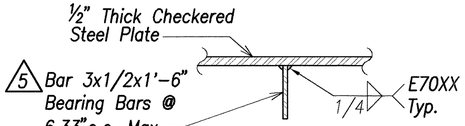
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 221	816



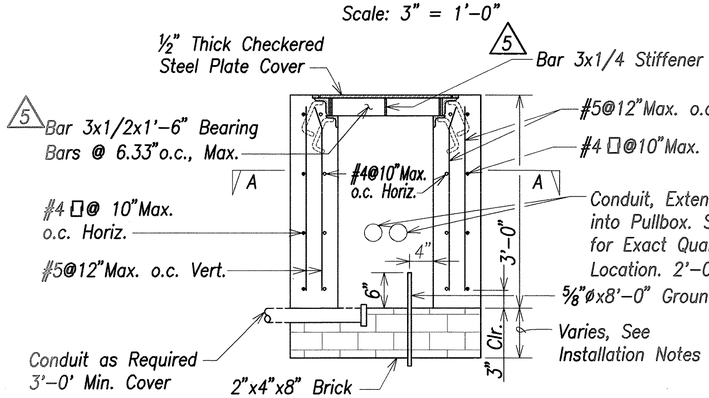
Traffic Bearing Pullbox Plan
Scale: 1" = 1'-0"



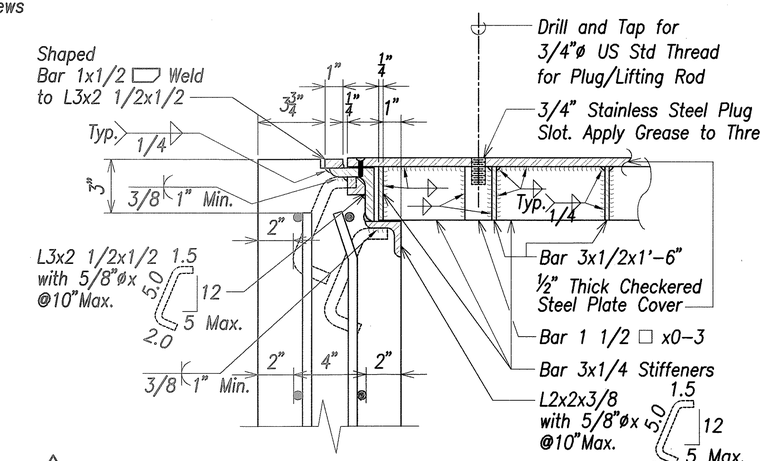
Section "B–B"
Scale: 3" = 1'-0"



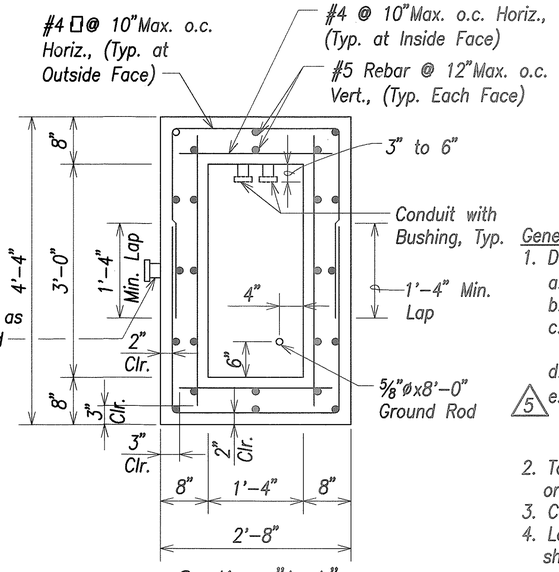
Section "C–C"
Scale: 3" = 1'-0"



5 "X–X" Section at Traffic Bearing Pullbox
Scale: 1" = 1'-0"



5 "D–D" Removable Cover Lifting Device Detail
Scale: 3" = 1'-0"



Section "A–A"
Scale: 1" = 1'-0"

General Notes:

1. Design:
   a. Concrete: f'c = 3,000 psi 5
   b. Reinforcing Steel: ASTM A615 Grade 60 5
   c. Structural Steel Rods, Bars, Plates and Angles: ASTM A36 Hot Dipped Galvanized (Per ASTM A153 Class B2) After Fabrication.
   d. Live Load: AASHTO HS–20–44 Loading.
   5 e. Criteria: AASHTO LFRD. Bridge Design Specifications, 2nd Ed(1998) Including all Subsequent Interim Revisions–Section 6.12.2.2.4b and AISC (1994) for 1/2" Thick Checkered Steel Plate Pullbox Cover.
2. Top of pullbox shall match new and/or existing grades unless otherwise shown or noted on plans of the project concerned.
3. Conduits: For number, size and exact location of conduit entrances refer to project drawings.
4. Label for pullbox shall be 4"x8"x1/2" thick galvanized cast iron insert with 3/8" raised sharp faced letters (on Cast iron Insert). Label for pullbox cover shall read: HDOT–WIM using 1" letters. The cast iron insert shall be set in flame cut opening in the 1/2" thick checkered plate. Provide 4 min. 1/2"ø x1" stainless steel cap screws from underside of Cover. Drill and tap cast iron insert and flat bar for cap screws.

Installation Notes:

A. The minimum layers of bricks to be used shall always be at least one (1) layer lower than the lowest conduit entering the pullbox. At no time, however, shall there be less than two (2) layers of bricks on each installation. Height of bricks shall not exceed 1'–0".

B. Leveling or raising of boxes to grade must be done at brickwork section using cement mortar. The permanent installation of wooden wedges to accomplish this purpose will not be accepted.

C. The pullbox must sit on 1" bed of grout laid on top of the bricks or on the precast section to transfer the load evenly.

D. Contractor shall install a 5/8" diameter by 8'–0" long ground rod in all new installations.

5 STEWART N. WILLIAMS LICENSED PROFESSIONAL ENGINEER No. 3908-S HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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Graphic Scales

1" = 1'-0" 1' 0 1' 2'

3" = 1'-0" 6" 4" 2" 0 6"

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

DATE	REVISION
10/16/03	5 Revised Pullbox Cover/Screws

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEIGH–IN–MOTION STATION
TRAFFIC BEARING PULLBOX

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

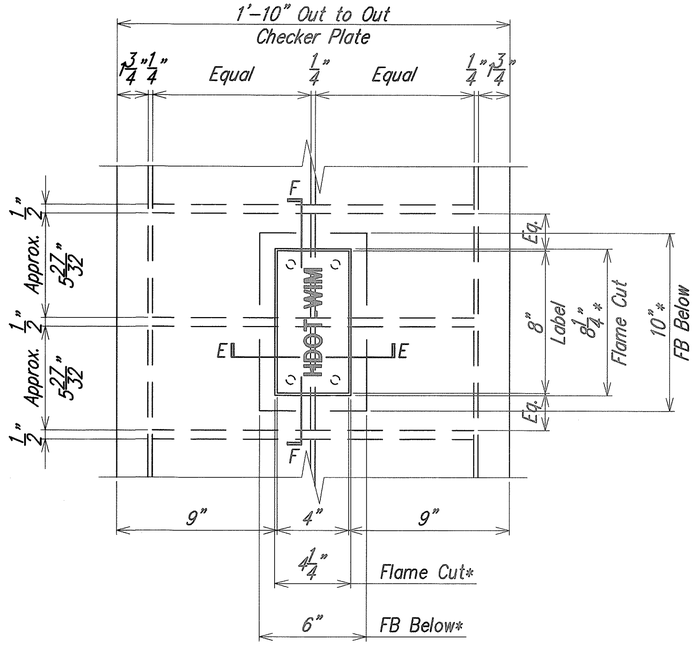
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC10.6 OF 350 SHEETS

RMTC JOB NO.: 1–19369–OE

ADD. 221

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 221S-1	816

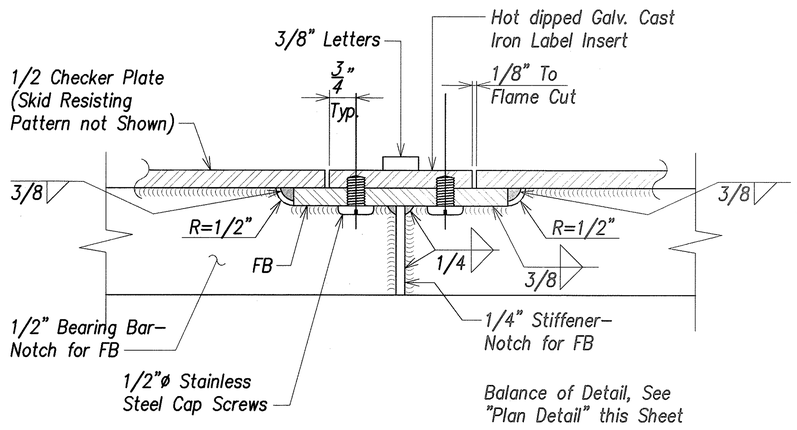


General Notes:

1. * Indicates flame cut and FB are centered on Pullbox Label.
2. Refer to General Note 4 on Sheet No. AC10.6.

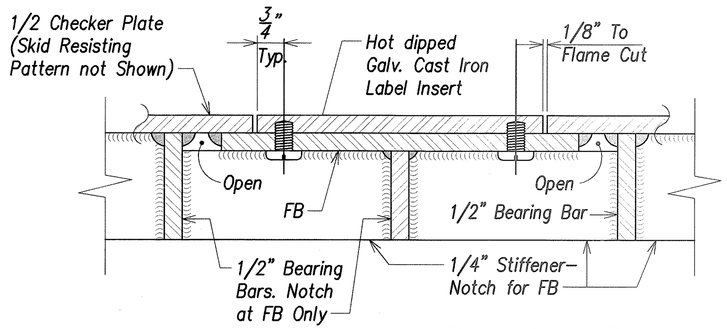
Plan Detail at Pullbox Cover Label

Scale: 3"=1'-0"



"E-E" Section Through Label

Scale: 1/2 Full Size



"F-F" Section Through Label

Scale: 1/2 Full Size

Graphic Scale

6" 4" 2" 0 6"

3" = 1'-0"

DATE	REVISION
10/16/03	5 New Sheet

STEWART N. WILLIAMS — LICENSED PROFESSIONAL ENGINEER — No. 3908-S — HAWAII, U.S.A.

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GREG H. HIYAKUMOTO — LICENSED PROFESSIONAL ENGINEER — No. 6662-C — HAWAII, U.S.A.

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NOTE BOOK | No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEIGH-IN-MOTION STATION
TRAFFIC BEARING PULLBOX

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC10.8A OF 350 SHEETS

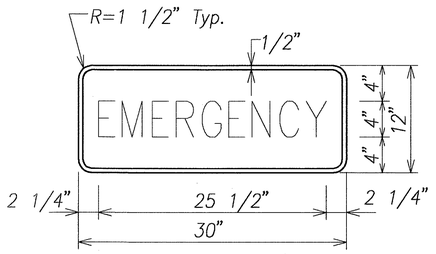
RMTC JOB NO.: 1-19369-OE

ADD. 221S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	222	816

General Emergency Telephone Notes:

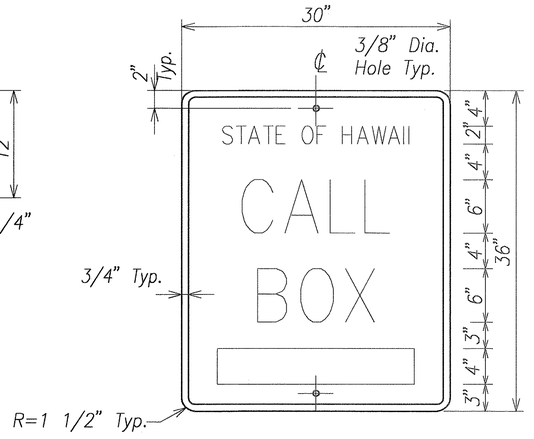
1. Existing structures and utilities damaged by the Contractor shall be repaired by the Contractor at the Contractor's expense.
2. Excavation and backfilling work will be considered part of Emergency Telephone installation, and payment thereof will be considered as incidental to various contract items.
3. Foundation shall be Class B concrete placed against undisturbed material.
4. Backfill shall be complete and adjacent surface improvements prepared prior to erection of the post.
5. 1/2-inch expansion joint material shall be placed between the foundation and abutting concrete paving.
6. CIDH – Cast in Drilled Hole.
7. Location of call box unit shall be based on the direction of Traffic, except for installation behind concrete barrier or barrier rail.
8. The Contractor shall obtain the contact name and telephone number for the current emergency call box maintenance service provider from the Engineer. The Contractor shall contact the maintenance service provider at least three (3) weeks prior to removing the relocated emergency telephone call box assembly. If the contractor uses a vendor other than the current maintenance service provider to perform removal/reinstallation of the relocated call box unit assembly, the Contractor shall arrange and pay for any necessary system recertification by the current maintenance service provider. The Contractor shall submit a paid invoice for said recertification to the Engineer for compensation by the State in accordance with subsection 109.04 – Extra and Force Account Work of the Specifications.
9. The Engineer will call H-3 Tunnel Control (Attn: Kyle Oyasato, Ph: 485-6208), at least two (2) weeks prior to relocation of existing emergency telephone to coordinate downtime requirements.



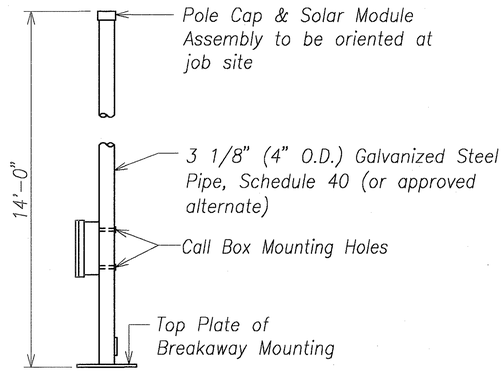
Notes:

1. Lettering shall be centered and shall be 4" SERIES C letters.
2. All signs shall have white reflector border and legend on a blue reflectorized background.

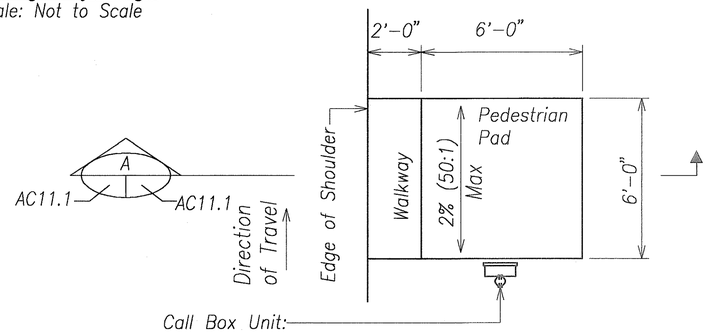
Emergency Sign
Scale: Not to Scale



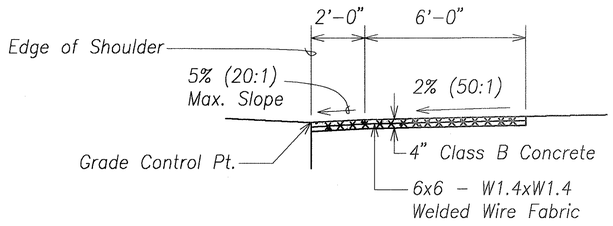
Call Box Identification Sign
Scale: Not to Scale



Call Box Mounting Pole, Typical
Scale: Not to Scale

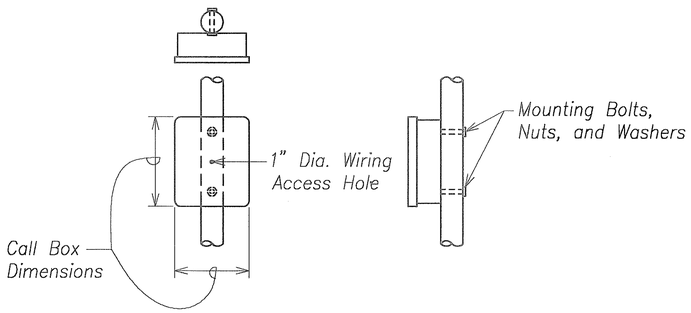


Plan
Scale: 3/8"=1'-0"



Section
Scale: 3/8"=1'-0"

Concrete Pedestrian Pad With Walkway For Relocated Emergency Telephone



Call Box Mounting, Typical
Scale: Not to Scale

Notes:

1. All lines of lettering shall be centered and shall be the following lettering size and series:
   - Line No. 1 – 2" SERIES C
   - Line No. 2 – 6" SERIES E
   - Line No. 3 – 6" SERIES E
2. Call Box Identification Numbers shall be 4" SERIES D letters centered in the bottom position of the sign.
3. All signs shall have white reflectorized border and legend on a blue reflectorized background.
4. Modify hole locations to accommodate the 2' offset from edge of shoulder.

Graphic Scale

3/8" = 1'-0" 2' 0 2' 4' 6'

Scale in Feet

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

GREG H. HIYAKUMOTO * LICENSED PROFESSIONAL ENGINEER No. 6662-C * HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EMERGENCY TELEPHONE NOTES AND DETAILS

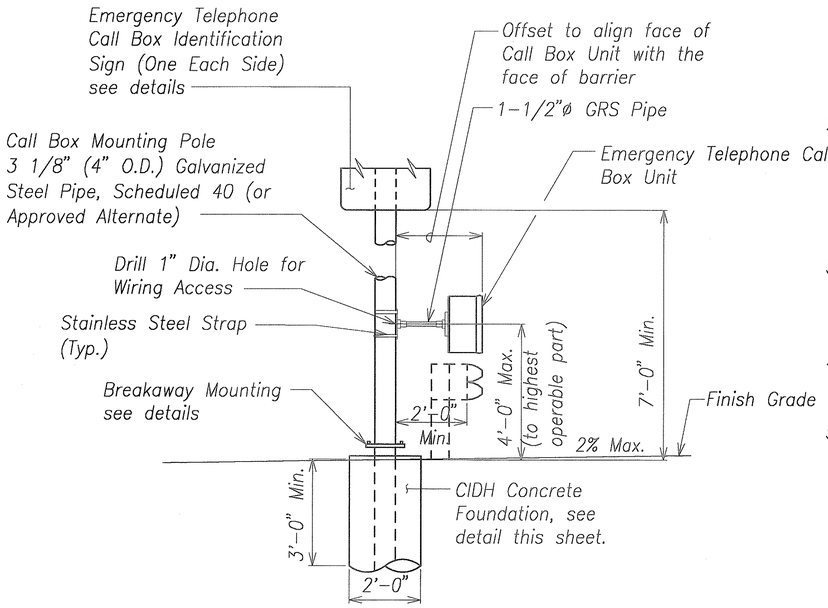
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC11.1 OF 350 SHEETS

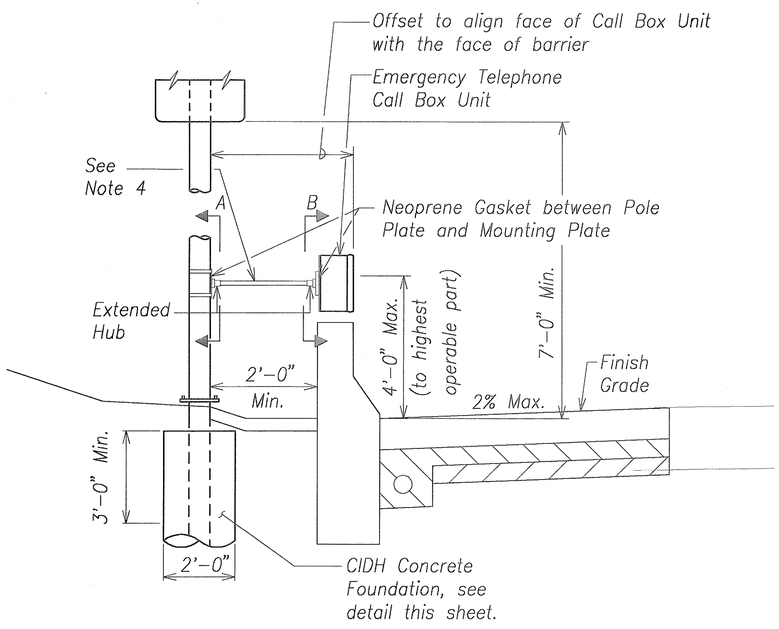
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	223	816



Sta. 109+96

Scale: Not To Scale

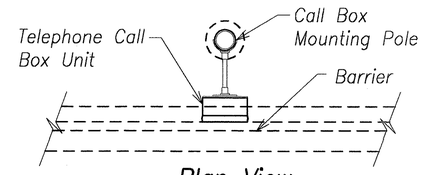


Sta. 131+80

Scale: Not To Scale

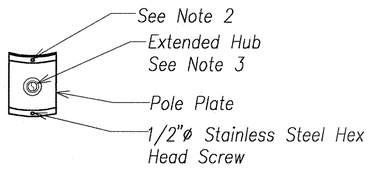
Notes:

1. Typical installation for behind metal and concrete barrier rail are similar.
2. Use bolts only in locations where straps are not feasible or a combination of straps and bolts. Preferred mounting method shall be stainless steel strap.
3. Lock conduits to hub with internal hex set. Screw or tack weld prior to hot dip galvanizing.
4. Adjust pipe length as required to fit location.
5. Install with 1/4" stainless steel countersink screws, washers and locknuts.



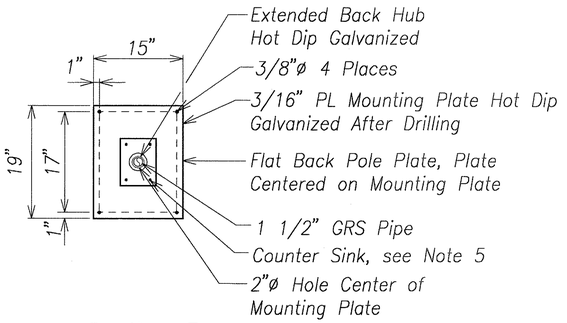
Plan View

Scale: Not To Scale



Section A

Scale: Not To Scale

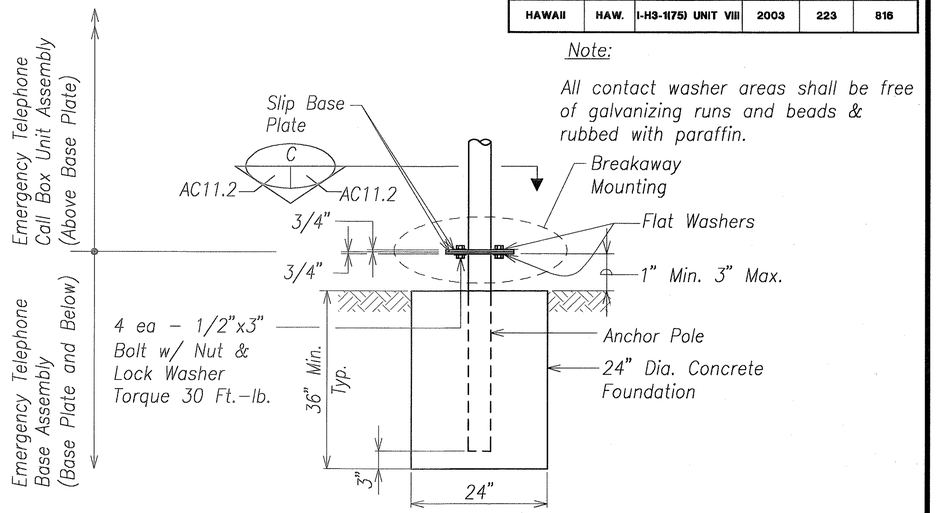


Section B

Scale: Not To Scale

Emergency Telephone Installation Behind Barrier Rail

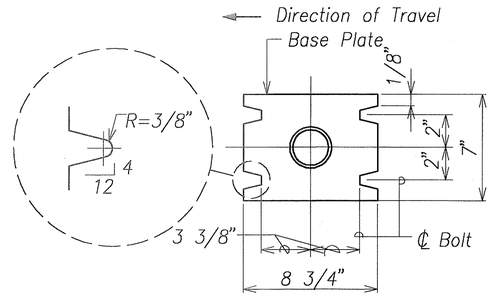
Scale: Not To Scale



Note:

All contact washer areas shall be free of galvanizing runs and beads & rubbed with paraffin.

Elevation





CIDH Concrete Foundation With Breakaway Mounting

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GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EMERGENCY TELEPHONE MISCELLANEOUS DETAILS

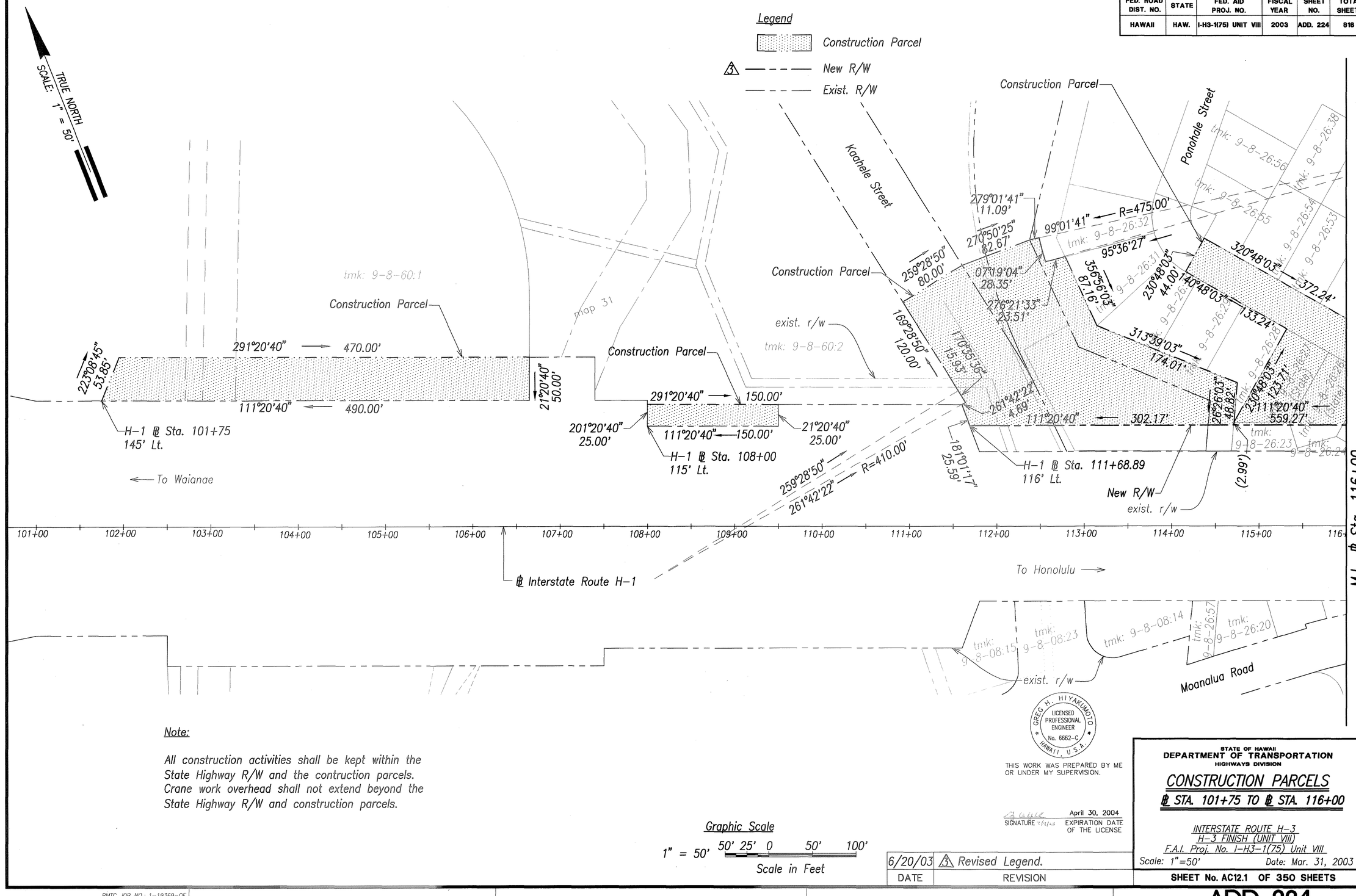
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC11.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HS-1(75) UNIT VIII	2003	ADD. 224	818



Note:

All construction activities shall be kept within the State Highway R/W and the contruction parcels. Crane work overhead shall not extend beyond the State Highway R/W and construction parcels.

Graphic Scale

1" = 50' 50' 25' 0 50' 100'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Revised Legend.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PARCELS
℄ STA. 101+75 TO ℄ STA. 116+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=50' Date: Mar. 31, 2003

SHEET No. AC12.1 OF 350 SHEETS

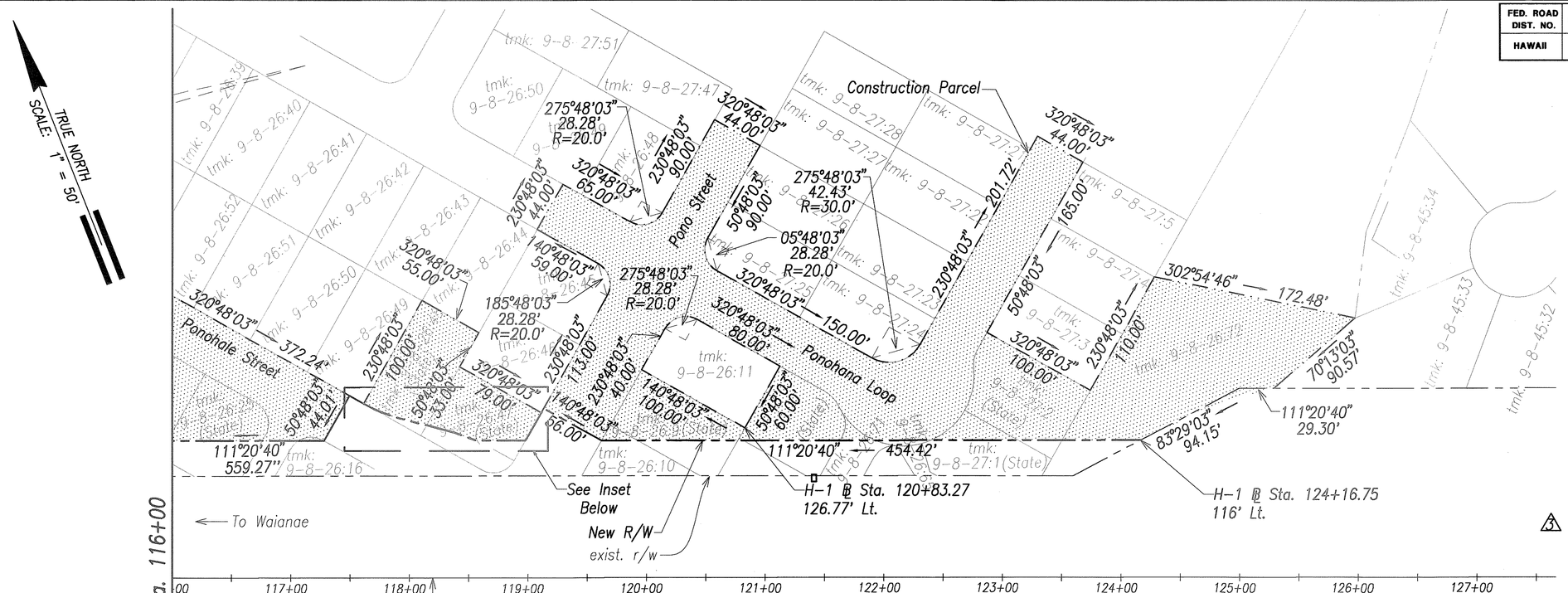
ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

RMTC JOB NO.: 1-19369-0E

ADD. 224

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 225	616

TRUE NORTH
SCALE: 1" = 50'



Legend

- Construction Parcel
- 3 — — — — New R/W
- — — — — Exist. R/W

Graphic Scale

1" = 50' 50' 25' 0 50' 100'

Scale in Feet

Note:

All construction activities shall be kept within the State Highway R/W and the contruction parcels. Crane work overhead shall not extend beyond the State Highway R/W and construction parcels.

DATE	REVISION
6/20/03	3 Revised Legend.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PARCELS

℄ STA. 116+00 TO ℄ STA. 126+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

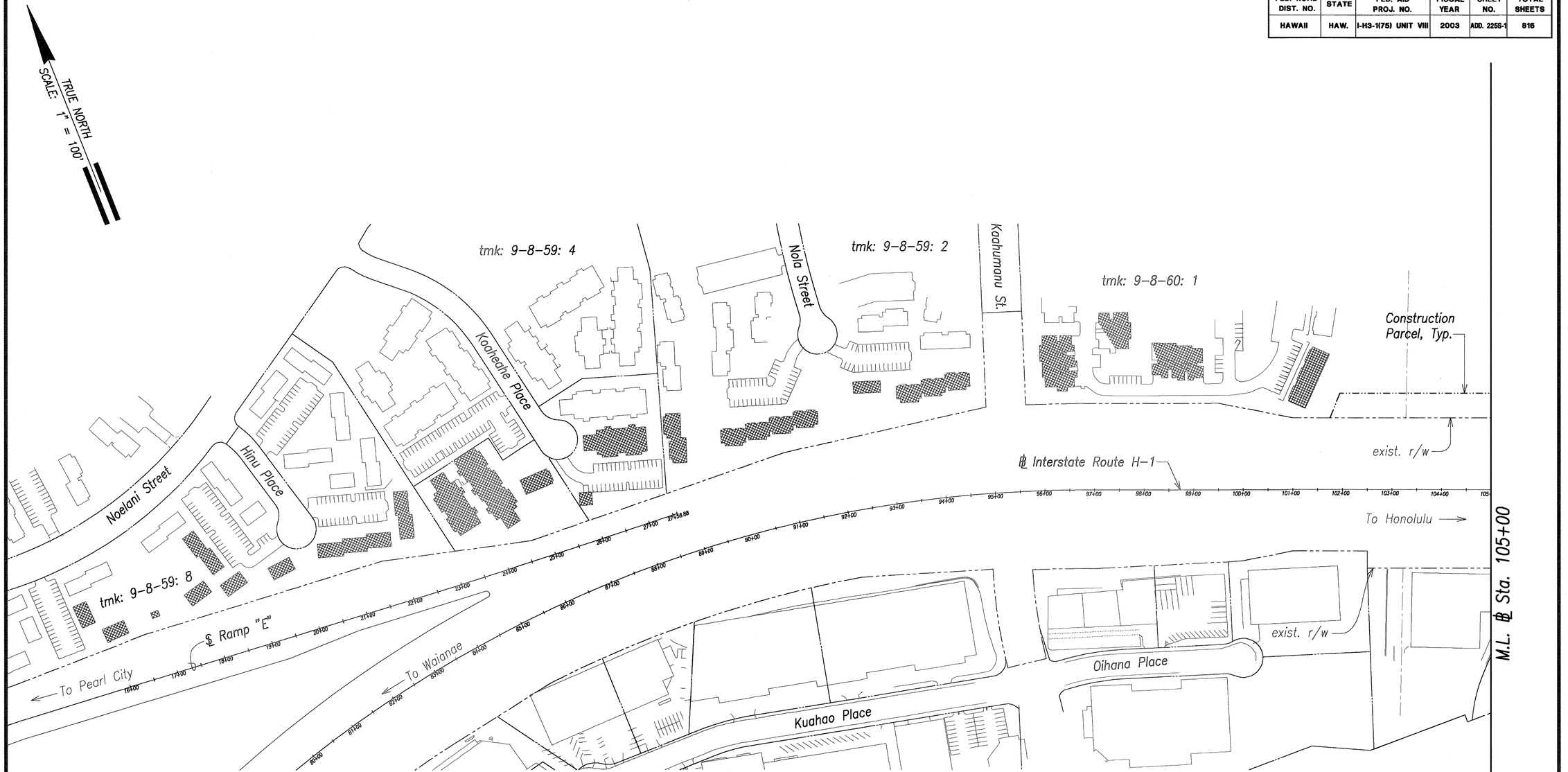
Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC12.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 225

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 225S-1	816



SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

Legend

- *Pre-Construction Survey Lot (See Note)*
- *Construction Parcel*
- *New R/W*
- *Exist. R/W*

Note:

The Contractor shall conduct examination of buildings in accordance with Section 671 – Building Examinations.

Graphic Scale

1" = 100' 100' 50' 0 100' 200'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 10/24/03 April 30, 2004
EXPIRATION DATE OF THE LICENSE

10/16/03	5 New Sheet.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PRE-CONSTRUCTION SURVEY

℄ STA. 15+89 TO ℄ STA. 105+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

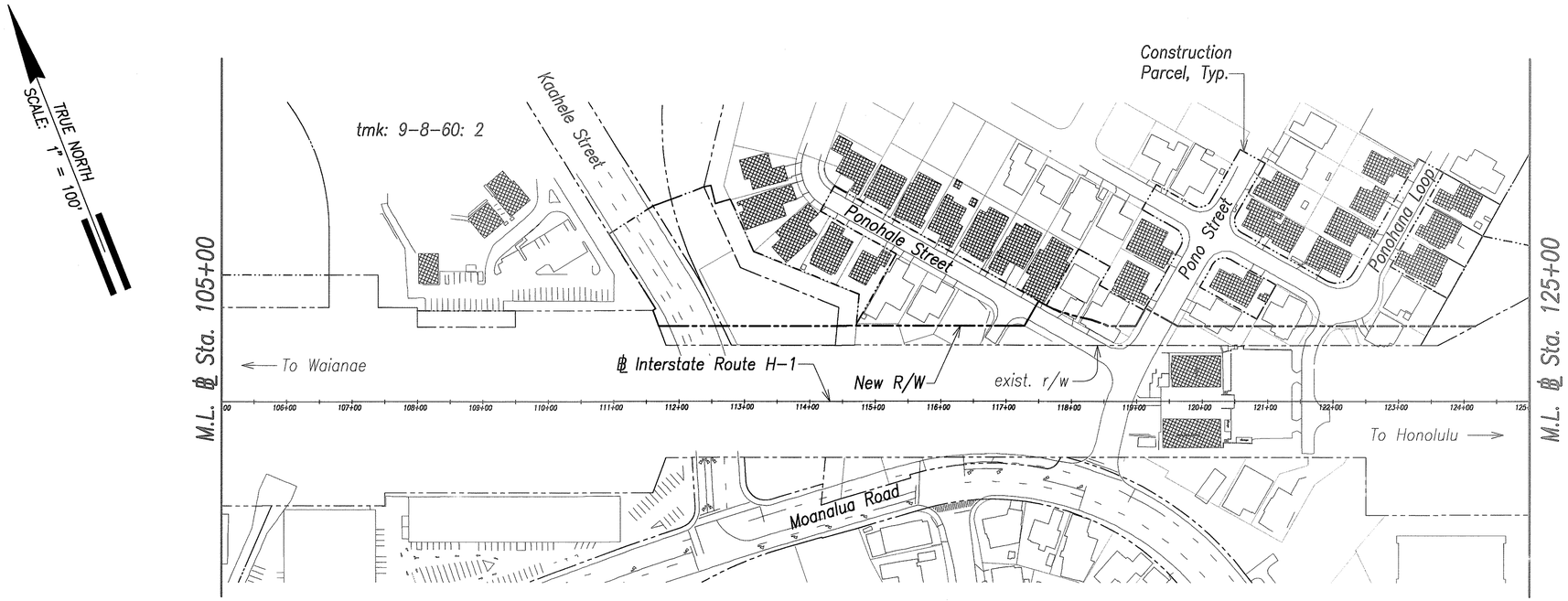
Scale: 1"=50' Date: Mar. 31, 2003

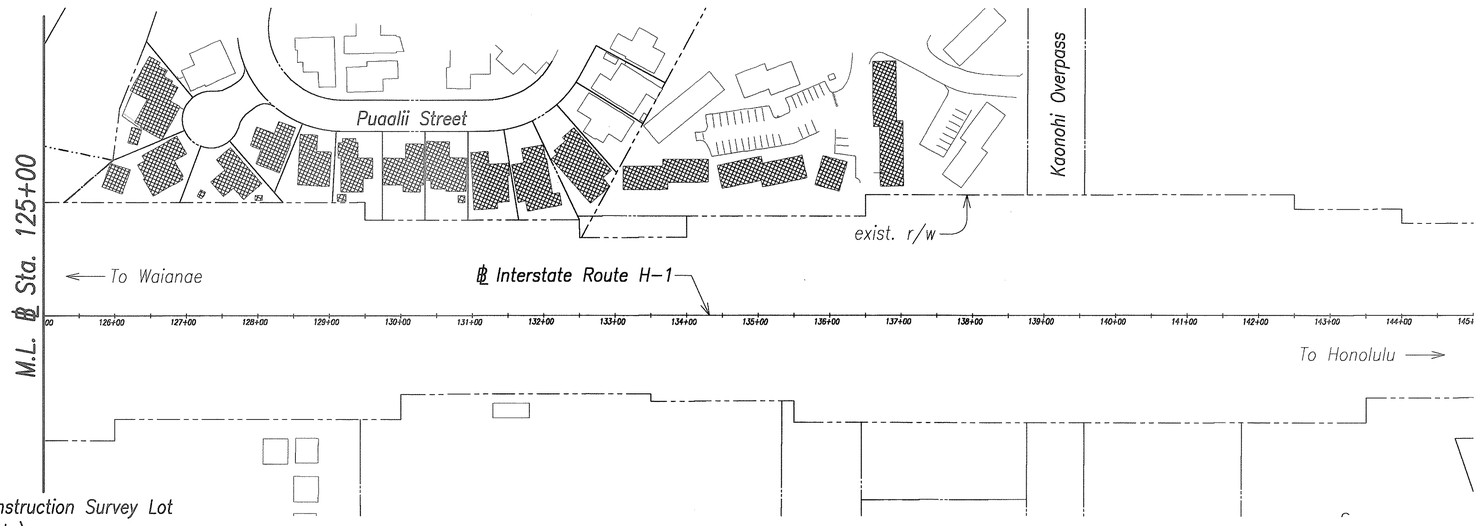
SHEET No. AC12.2A OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 225S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 225S-2	816





Legend

- Pre-Construction Survey Lot (See Note)
- Construction Parcel
- New R/W
- Exist. R/W

Note:

The Contractor shall conduct examination of buildings in accordance with Section 671 – Building Examinations.

Graphic Scale

1" = 100' 100' 50' 0 100' 200'

Scale in Feet

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

DATE	REVISION
10/16/03	5 New Sheet.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PRE-CONSTRUCTION SURVEY

℄ STA. 105+00 TO ℄ STA. 139+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: As Shown Date: Mar. 31, 2003

SHEET No. AC12.2B OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 225S-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 226	816

WORK ZONE	WORK ZONE LOCATION	MAJOR ACTIVITIES	CORRESPONDING VIADUCT SEQUENCE (See Note 6)	H-1 LANE CLOSURES	TRAFFIC CONTROL PLAN SCHEME
WORK ON H-1 AND PEARL CITY OFF-RAMP					
1A	WB and EB lanes	Verification field survey of existing viaduct grades. (Also see Note 8, Sht. AS0.4)	1	Full closure (WB and EB) between Waiau and Halawa.	F & G
1B	WB right shoulder and roadside (Pearl City Off-ramp to Kaonohi Street). Pearl City Off-ramp right shoulder and roadside. EB right shoulder	Viaduct work: Column foundations, columns, bent caps to tip of exist. cap, and restrainers. Work along H-1 at-grade: Retaining walls, noise barrier walls, Austin-Bishop Separation (Kaahumanu Street overpass) foundation, drainage, lighting, PCC and AC pavement (not affecting existing travel lanes), deep soil stabilization, test probing for deep soil stabilization, WIM stations (in shoulders) and landscaping.	1 to 3	1 H-1 WB lane closed. (4 lanes open) 1 Pearl City Off-ramp lane closed (1 open). H-1 EB shoulder	A
2A	WB right lanes (Pearl City Off-ramp to Kaonohi Street).	Viaduct work: Abutments, wingwalls, related foundations, approach slabs, and continuing Ph. 1 work. Work along H-1 at-grade: PCC and AC pavement (affecting existing travel lanes) and deep soil stabilization. (See Note 7)	1 to 2	1 H-1 WB right lane closed (4 lanes open).	B
2B	Pearl City Off-ramp right lane.	Work along H-1 at-grade: PCC pavement at Pearl City Off-ramp.		1 Pearl City Off-ramp lane closed (1 open). No H-1 lanes closed.	C
2C	WB right lanes (Moanalua Road to Pearl City Off-ramp). Pearl City Off-ramp left lanes, shoulder, and roadside.	Work along H-1 at-grade: PCC pavement (shoulder, right lane, and conn. to exist. PCC), lighting, and landscaping.		1 H-1 WB right lane closed (4 lanes open). 1 Pearl City Off-ramp closed (1 open).	D

Notes:

1. Allowable work times are as listed in the table below, unless otherwise specified.
2. Utility service connection work may be performed at night to miminize disruption of service to the public. Unless otherwise specified, the Contractor will be permitted to work in multiple work zones provided the impact to the public is acceptable to the Engineer and there is no additional cost to the State. The Engineer may rescind its permission in part or in whole at any time. The rescindment of permission shall not be a basis of any claim by the Contractor for additional cost or time.
3. Allowable lane closure times along H-1 and the Pearl City off-ramp are as listed in the table below left, unless otherwise specified.
4. Contractor shall not close lanes until the "Zipper Lane" barrier has been placed in its stored position east of the Aiea Heights overcrossing.
5. Lane closures related to the "H-1 Seismic Retrofit, Austin-Bishop Separation and Waiau Interchange (Federal-Aid Interstate Project No. BR-H1-1(241)" project shall not occur concurrently with lane closures associated with this project.
6. Refer to Sheets AS18.1 to AS18.3 for viaduct work sequence.
7. PCC pavement work affecting existing travel lanes and 2nd phase of approach slabs at Abutments "A" and "B" (Sheet AS7.9) shall be allowed only during the 24-hour weekend closures, unless otherwise approved by the Engineer.
8. Field office facilities shall be completed and ready for occupancy within 90 calendar days after Notice to Proceed. Work directly affecting the construction and use of these facilities, such as viaduct work overhead, utility connections, paving and other site preparation work shall be done prior to occupancy of the facilities.
3. Noise Barrier Walls shall be completed within 120 calendar days after Notice to Proceed.
3. The number of full closures along H-1 shall not exceed 5.

Allowable Work Times		
	* Construction above the viaduct girder soffit level 3	Construction below the viaduct girder soffit level 3
Monday	24-hours	7am to 6 pm
Tuesday to Friday	7 am to 12 midnight 12 midnight to 5 am	7am to 6 pm
Saturday	24-hours	Not allowed
Sunday	24-hours	Not allowed

3 * Work times to be used for access unless otherwise noted in work zone notes elsewhere.

Allowable H-1 Lane Closure Times				
	1 WB lane closed	2 WB lanes closed	EB shoulder closed	Full Closure (all lanes)
Monday to Thursday	10:30 am - 2:30 pm 10 pm - 4 am	10:30 am - 2:30 pm 10 pm - 4 am	12 midnight - 4 am 10:30 am to 12 midnight	10 pm - 4 am
Friday	12 mid - 4 am 10:30 am - 2:30 pm 10 pm - 12 midnight	12 mid - 4 am 10:30 am - 2:30 pm 10 pm - 12 midnight	12 midnight - 4 am 10:30 am to 12 midnight	Not allowed
Saturday and Sunday	24 hours	12 midnight - 8 am 10 pm - 12 midnight	24 hours	Not allowed

Allowable Pearl City Off-ramp Lane Closure Times	
	1 lane closed
All days	24 hours

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

GREG H. HIYAKUMOTO * LICENSED PROFESSIONAL ENGINEER No. 6662-C * HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION WORK ZONE NOTES - 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

DATE	REVISION
6/20/03	3 Added Notes; Revised Notes

SHEET No. AC13.1 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD 226

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 227	816

WORK ZONE	WORK ZONE LOCATION	MAJOR ACTIVITIES	CORRESPONDING VIADUCT SEQUENCE	H-1 LANE CLOSURES	TRAFFIC CONTROL PLAN SCHEME
WORK ON WAIMALU VIADUCT					
3A	WB shoulder and right lanes (Viaduct portion).	Viaduct work: Erect girders.	4	Up to 2 H-1 WB right lanes closed (min. of 3 lanes open).	E
3B	WB shoulder (Viaduct portion).	Viaduct work: ⚠5 Beams, diaphragms, deck (except at closure strip and blockouts at expansion joints), railing, deck drains, lighting, and profilograph.	5 to 10	1 H-1 WB lane (4 lanes open) (see Note 4) ⚠5	A
3C	WB shoulder and right lanes (Viaduct portion).	Viaduct work: Remove exist. railing, lighting and install temp drain provisions.	11 and 12	Same as 3A (see Note 2)	E
3D	WB shoulder (Viaduct portion).	Viaduct work: Drains.	13	Same as 3B (See Note 2)	A
3E	WB shoulder and right lanes (Viaduct portion).	Viaduct work: Bent caps, diaphragms, and beams (conn. to exist.).	14 to 16	Same as 3A (see Note 2)	E
3F	WB and EB all lanes (Moanalua Road to East of Kaonohi Street).	Viaduct work: Closure pour strip (except at expansion joint blockouts) and expansion joints in exist. viaduct section. Work along H-1 at-grade: Overhead signs, WIM station, striping.	17	Full closure (WB and EB) between Waiau and Halawa Interchanges. (see Note 2)	F & G
3G	WB shoulder and right lanes (Viaduct portion).	Viaduct work: ⚠5 Deck drains, lighting, concrete overlays, pavement grooving, profilograph, and expansion joints in widened viaduct portion.	18 to 22	Same as 3B (See Note 2) ⚠5⚠7	A

Notes:

1. Refer to notes on Sheet AC13.1.
2. The moveable barrier along the viaduct segment shall be stored at the e.p. line rather than 2' offset from the e.p. line in work zones 3C, 3D, 3E, 3F, and 3G
3. Refer to allowable lane closure times on Sheet AC13.1.

⚠5 4. The finish surface of the deck pour in Stage 5 of Sht. AS18.3 shall conform to the Surface Test as stated in Section 503.03 (M) (3) (a) 1 of the Special Provisions before proceeding to Stage 14 of Sht. AS18.3.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION WORK ZONE NOTES - 2

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC13.2 OF 350 SHEETS

DATE	REVISION
10/31/03	⚠7 Revised Note.
10/16/03	⚠5 Added Notes; Revised Notes

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

RMTC JOB NO.: 1-19369-0E

ADD. 227

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 228R	816

WORK ZONE	WORK ZONE LOCATION	MAJOR ACTIVITIES	CORRESPONDING VIADUCT SEQUENCE	SURFACE STREET LANE CLOSURES	TRAFFIC CONTROL PLAN SCHEME
WORK ON SURFACE STREETS AND AREAS BELOW WAIMALU VIADUCT					
4A	Between Viaduct Abutment A and Bent 3 (vicinity of Kaahele Street).	Viaduct work: Foundations, columns, abutment A, wingwalls, bent caps, and seismic retrofits. Surface work: Roadways, sidewalks, sitework, utilities and landscaping.	1 to 3	Makai segment of Kaahele Street 2 lanes closed (2 lanes open). No parking.	SA, SC 3
4B	Between Viaduct Abutment A and Bent 3 (vicinity of Kaahele Street).	Viaduct work: Girders. Surface work: Continue work.	4	Makai segment of Kaahele Street (full closure; Allow for passage of emergency vehicles). Use detour to Komo Mai Drive.	SE
4C	Between Viaduct Bents 3 and 6 (vicinity of Ponohale Street).	Viaduct work: Same as 4A except for abutment A & wingwalls Surface work: Roadways, sidewalks, sitework, utilities, landscaping and field office facilities. Set up detour under viaduct for next phase.	1 to 3	Makai segment of Ponohale Street (full closure; No through traffic). Use detour to Ponokaulike Street.	SF
4D	Between Viaduct Bents 6 and 9 (vicinity of Pono and Ponohale Street intersection).	Viaduct work: Same as 4A except for abutment A & wingwalls Surface work: Roadways, sidewalks, sitework, utilities, landscaping and field office facilities.	1 to 3	Intersection area of Pono and Ponohale Streets (full closure). Use detour under viaduct.	SG
4E	Pono Street (Ponohale Street to Moanalua Road).	Roadway and sidewalk restoration, sitework, drainage, lighting, utilities, and landscaping.		1 lane closed at a time (1 lane open).	SH, SI
4F	Between Viaduct Bent 9 and Abutment B (vicinity of Ponohana Loop and Ponohana Place).	Viaduct work: Same as 4A except abutment B in place of abutment A Surface work: Roadways, sidewalks, sitework, utilities and landscaping.	1 to 3	Makai segment of Ponohana Loop (full closure; No through traffic). Use detour to mauka leg of Ponohana Loop.	SJ

Note:

1. Refer to notes on Sheet AC13.1.
2. Allowable lane closure times on surface streets shall be Monday to Friday, 8:30 A.M. to 3:30 P.M.. Exceptions to these hours will be made for major utility service connection work, work in the contract documents that indicate a 24-hour a day lane closure, and other work as approved by the Engineer. The Engineer will solely determine when these additional lane closure hours will be, at no additional cost or extension of contract time.
3. Pono Street and Ponohale Streets shall be closed 24-hours only during operation of the detour under the viaduct.
4. Temporary pedestrian access shall be provided at all times. Access routes shall be as direct as practicable meet ADA requirements, and be acceptable to the Engineer.

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SIGNATURE 11/7/04 April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

DATE	REVISION
10/31/03	2 Revised Note 2.
6/20/03	3 Revised Traffic Control Plan Scheme.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION WORK ZONE NOTES - 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC13.3 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 228R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 229	816

Variable Message Sign (VMS) Schedule for H-1 Westbound Full Closure

Designation	Type	Location	Time	⚠3 Message
MF	Portable	Moanalua Freeway prior to Ramp N	See Note 2	H-1 WEST/CLOSED/10PM-4AM/(dates)
			10PM - 4AM	H-1 WEST/CLOSED/HALAWA -/WAIMALU/USE ALT./ROUTE
VMS 40	Permanent	Moanalua Freeway at Puuloa Rd.	See Note 2	H-1 WEST CLOSED HALAWA-WAIMALU 10PM-4AM (dates)
			10PM - 4AM	H-1 WEST CLOSED HALAWA TO WAIMALU USE HALAWA OR AIEA EXITS
VMS 41	Permanent	H-1 Westbound at Liliha Street	See Note 2	H-1 WEST CLOSED HALAWA TO WAIMALU 10PM-4AM (dates)
			10PM - 4AM	H-1 WEST CLOSED HALAWA TO WAIMALU - USE HALAWA OR AIEA EXITS
VMS 42	Permanent	H-1 Westbound at Ward Avenue	See Note 2	H-1 WEST CLOSED HALAWA TO WAIMALU 10PM-4AM (dates)
			10PM - 4AM	H-1 WEST CLOSED HALAWA TO WAIMALU - USE HALAWA OR AIEA EXITS
H1-W1	Portable	H-1 Outbound West of Airport On-Ramp	See Note 2	H-1 WEST/CLOSED/10PM-4AM/(dates)
			10PM - 4AM	H-1 WEST/CLOSED/HALAWA -/WAIMALU/USE ALT./ROUTE
H1-W2	Portable	H-1 Outbound West Prior to Stadium Exit	See Note 2	H-1 WEST/CLOSED/10PM-4AM/(dates)
			10PM - 4AM	H-1 WEST/CLOSED/HALAWA -/WAIMALU/USE ALT./ROUTE
NIMITZ	Portable	Mauka Frontage Road west of Valkenburgh Rd.	See Note 2	H-1 WEST/CLOSED/10PM-4AM/(dates)
			10PM - 4AM	H-1 WEST/CLOSED/HALAWA -/WAIMALU/USE ALT./ROUTE
HICKAM	Portable	Nimitz Highway, Eastbound, from Hickam AFB	See Note 2	H-1 WEST/CLOSED/10PM-4AM/(dates)
			10PM - 4AM	H-1 WEST/CLOSED/HALAWA -/WAIMALU/USE ALT./ROUTE
VMS 43	Permanent	H-1 Outbound near Radford	See Note 2	H-1 WEST CLOSED HALAWA TO WAIMALU 10PM-4AM (dates)
			10PM - 4AM	H-1 WEST CLOSED HALAWA TO WAIMALU USE AIEA EXIT
VMS 34	Permanent	Kaneohe Bay Drive nr. Makalani St.	See Note 2	H-1 WEST CLOSED HALAWA TO WAIMALU 10PM-4AM (dates)
			10PM - 4AM	H-1 WEST CLOSED HALAWA TO WAIMALU USE ALT. ROUTE
VMS 37	Permanent	Kahekili Hwy. prior to Likelike Hwy.	See Note 2	H-1 WEST CLOSED HALAWA TO WAIMALU 10PM-4AM (dates)
			10PM - 4AM	H-1 WEST CLOSED HALAWA TO WAIMALU USE ALT. ROUTE
VMS 44	Permanent	H-3 Inbound, Leeward Section	See Note 2	H-1 WEST CLOSED HALAWA TO WAIMALU 10PM-4AM (dates)
			10PM - 4AM	H-1 WEST CLOSED HALAWA TO WAIMALU USE HALAWA EXIT

GREG H. HIYAKUMOTO
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SIGNATURE 4/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

Notes:

1. Display dates begin 2 weeks prior to beginning of and during full closure period.
2. During full closure period, message shall be displayed during non-closure times (4AM to 10PM).
⚠3 3. For Portable VMS, line breaks are indicated with a "/".
⚠3 4. For Permanent VMS, line breaks shall be placed accordingly for each VMS length.

DATE	REVISION
6/20/03	⚠3 Revised Messages, Added Notes

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
VMS SCHEDULE WESTBOUND

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC13.4 OF 350 SHEETS

ADD. 229

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

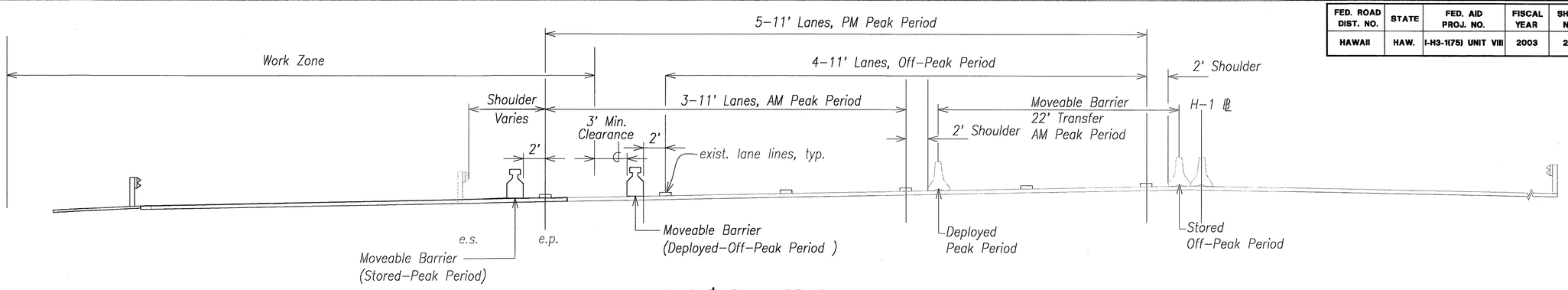
RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 230	816

Variable Message Sign (VMS) Schedule for H–1 Eastbound Full Closure

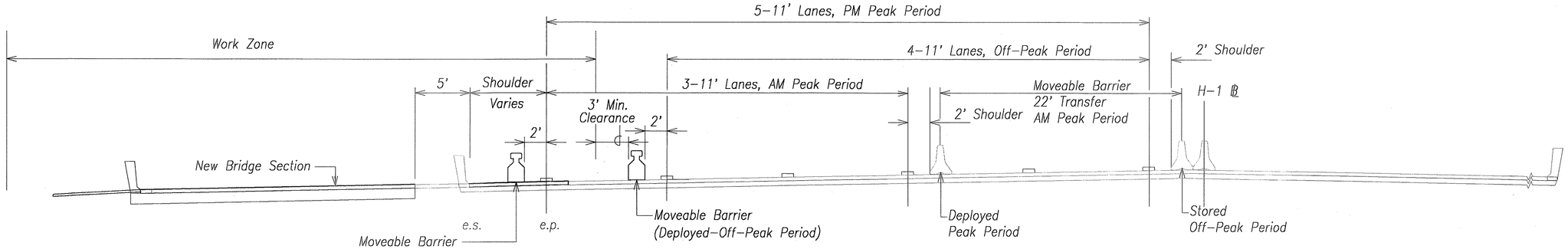
Designation	Type	Location	Time	⚠3 Message
FH	Portable	Farrington Hwy. Eastbound before H–1 Onramp	See Note 2	H–1 EAST/CLOSED/10PM–4AM/(dates)
			10PM – 4AM	H–1 EAST/CLOSED/WAIMALU/– HALAWA/USE ALT./ROUTE
H2–A	Portable	H–2 Inbound prior to Ka Uka Blvd. Exit	See Note 2	H–1 EAST/CLOSED/10PM–4AM/(dates)
			10PM – 4AM	H–1 EAST/CLOSED/WAIMALU/– HALAWA/USE ALT./ROUTE
KH	Portable	Kamehameha Hwy. Inbound after Waipahu St.	See Note 2	H–1 EAST/CLOSED/10PM–4AM/(dates)
			10PM – 4AM	H–1 EAST/CLOSED/WAIMALU/– HALAWA/USE ALT./ROUTE
H1–E	Portable	H–1 Inbound prior to Ramp D	See Note 2	H–1 EAST/CLOSED/10PM–4AM/(dates)
			10PM – 4AM	H–1 EAST/CLOSED/WAIMALU/– HALAWA/USE ALT./ROUTE
H1–H2–E	Portable	H–1/H–2 Inbound Merge	See Note 2	H–1 EAST/CLOSED/10PM–4AM/(dates)
			10PM – 4AM	H–1 EAST/CLOSED/WAIMALU/– HALAWA/USE ALT./ROUTE
VMS 38	Permanent	H–1 Inbound at Kaamilo Street	See Note 2	H–1 EAST CLOSED WAIMALU TO HALAWA 10PM–4AM (dates)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	231	816



H–1 ℄ Sta. 125+00± to Sta. 146+00±

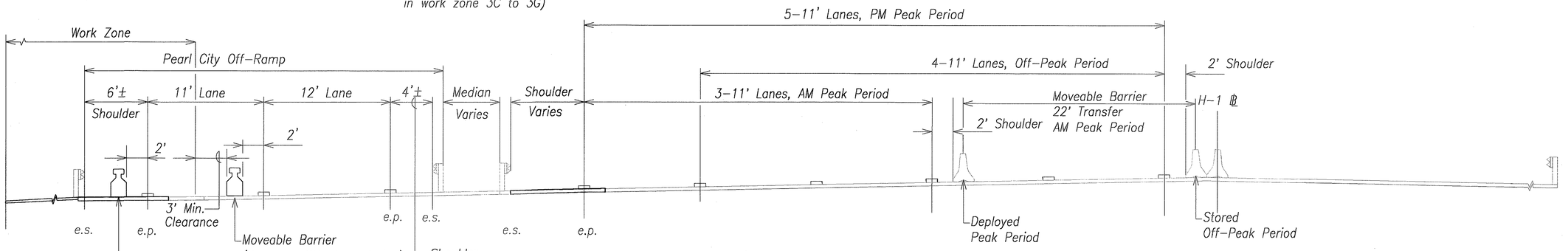
Scale: 1" = 5'



(See sheet 13.7 for placement in work zone 3C to 3G)

Viaduct, H–1 ℄ Sta. 111+00± to 125+00±

Scale: 1" = 5'



H–1 ℄ Sta. 72+00± to 87+00±

Scale: 1" = 5'

Notes:

1. The construction work zone shall be set back a minimum of three (3) feet behind the closest face of the moveable concrete barrier. Construction work or materials storage and/or delivery shall not occur within this setback area.
2. Barrier placement only along the viaduct in work zones 3C to 3G shall be as shown on sheet AC13.7

Westbound Schemes A & B

Scale: 1" = 5'

(H–1 1 lane closure used in work zones 1B, 2A, 3B, 3D, and 3G)

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'

Scale in Feet

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

GREG H. HIYAKUMOTO
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No. 6662–C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL

TYPICAL SECTIONS – SCHEMES A & B

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

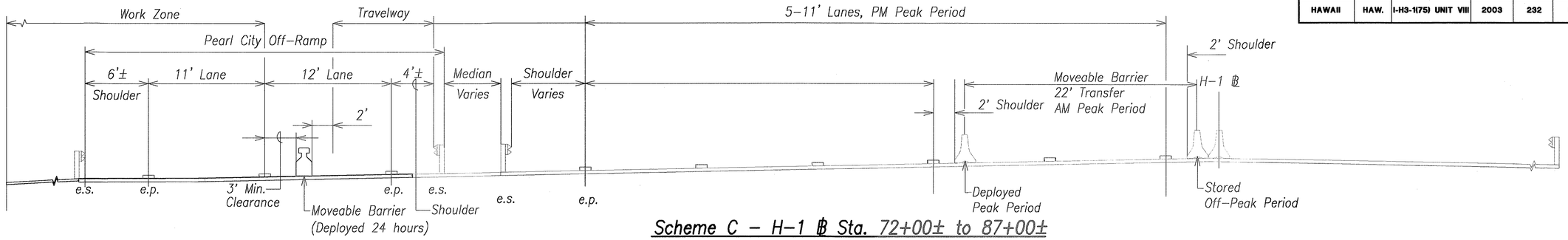
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Date: Mar. 31, 2003

SHEET No. AC13.6 OF 350 SHEETS

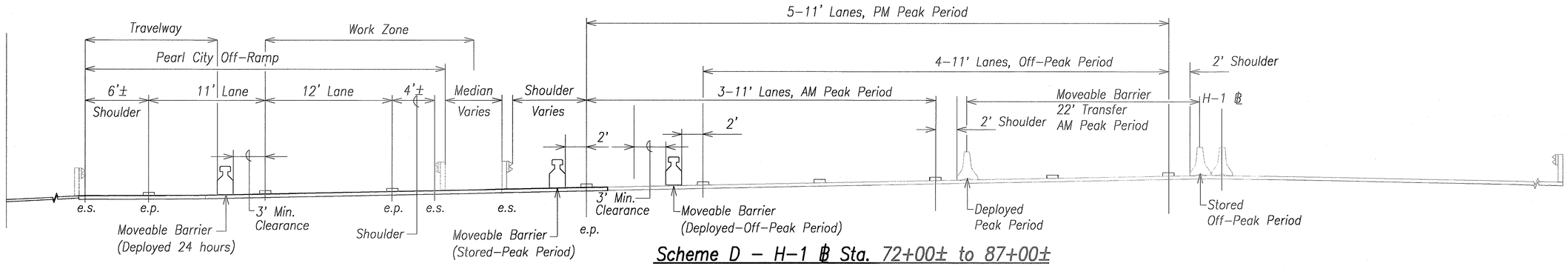
RMTC JOB NO.: 1–19369–0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	232	816



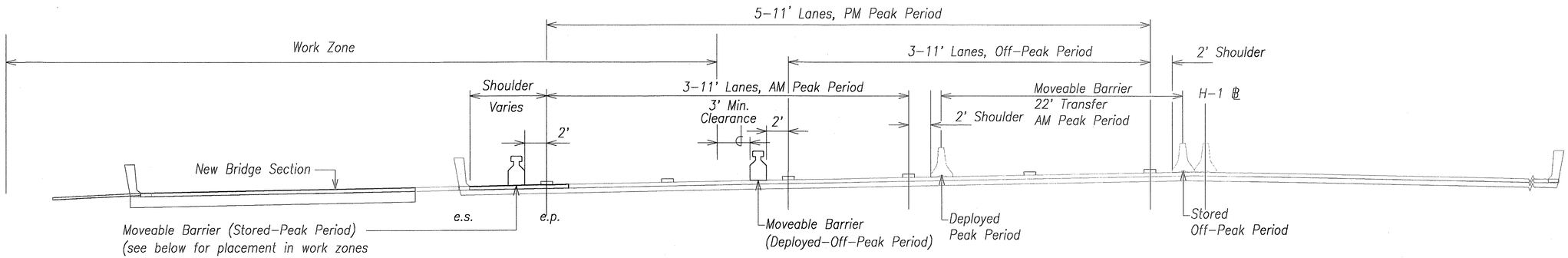
Scheme C – H–1 Ⓑ Sta. 72+00± to 87+00±

(Pearl City off–ramp 1 lane closure used in work zone 2B)
Scale: 1" = 5'



Scheme D – H–1 Ⓑ Sta. 72+00± to 87+00±

(Pearl City off–ramp and H–1 1 lane closure used in work zone 2C)
Scale: 1" = 5'

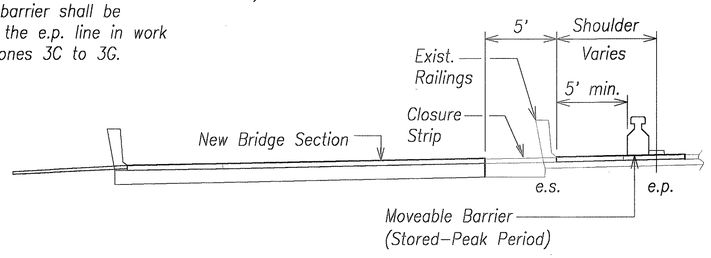


Scheme E – H–1 Viaduct, Sta. 111+00± to 125+00±

(Viaduct 2 lane closure used in work zones 3A, 3C and 3F)
Scale: 1" = 5'

Notes:

Moveable barrier shall be stored at the e.p. line in work in work zones 3C to 3G.



Westbound Schemes C, D & E

Scale: 1" = 5'

Graphic Scale

1" = 5' 5' 2.5' 0 5' 10'

Scale in Feet

GREG H. HIYAKUMOTO
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No. 6662–C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL

TYPICAL SECTIONS – SCHEMES C, D & E

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

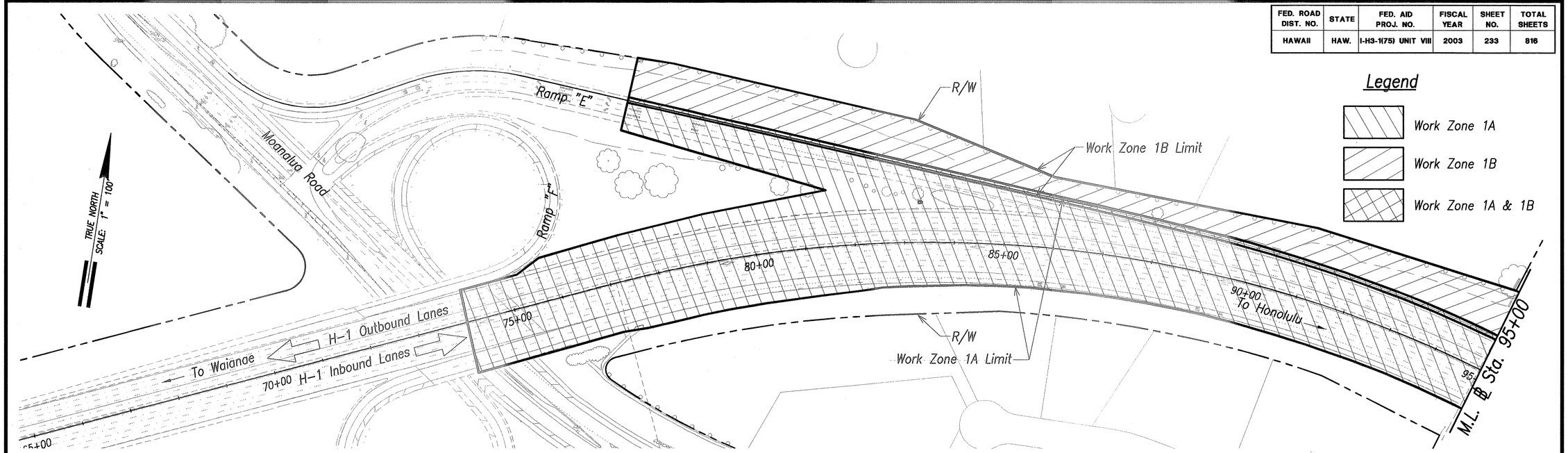
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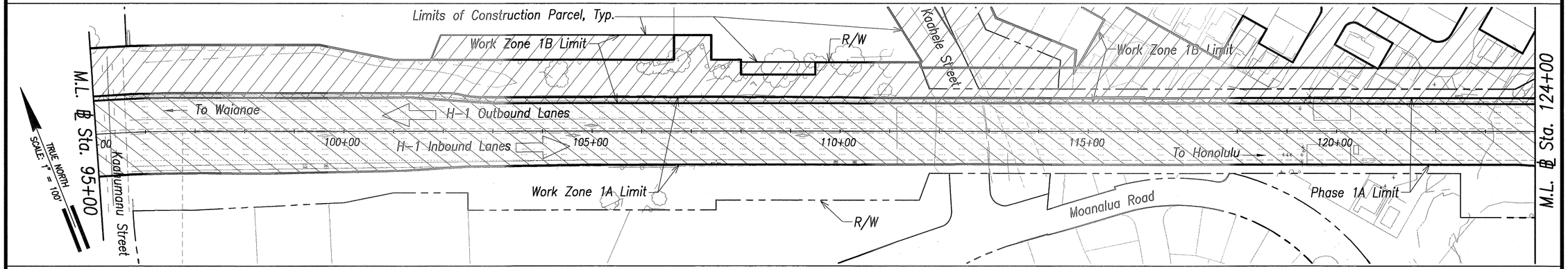
SHEET No. AC13.7 OF 350 SHEETS

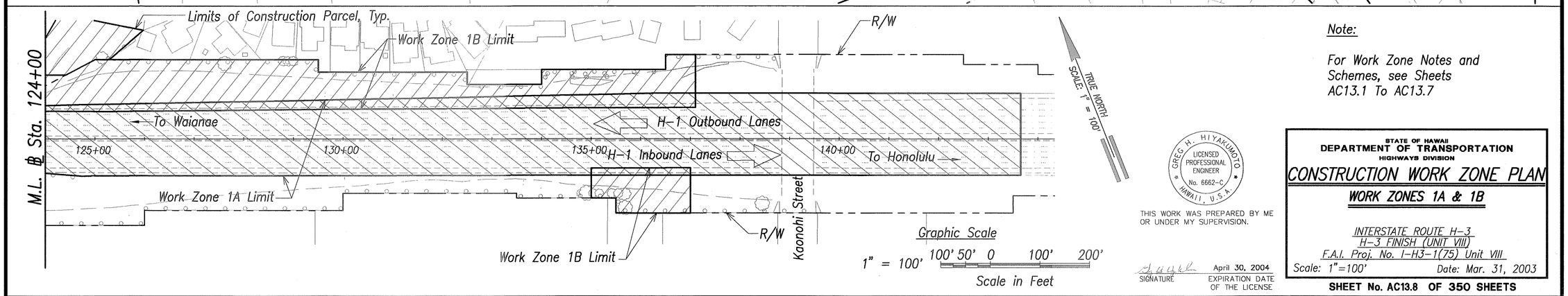
ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

RMTC JOB NO.: 1–19369–0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	233	816







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

Note:

For Work Zone Notes and Schemes, see Sheets AC13.1 To AC13.7

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION WORK ZONE PLAN

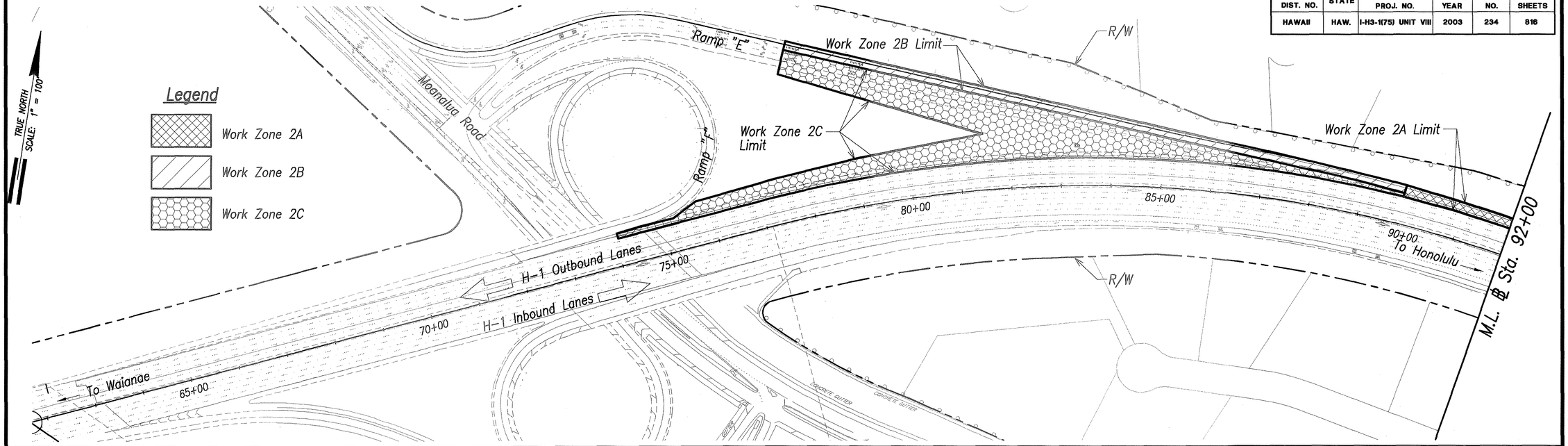
WORK ZONES 1A & 1B

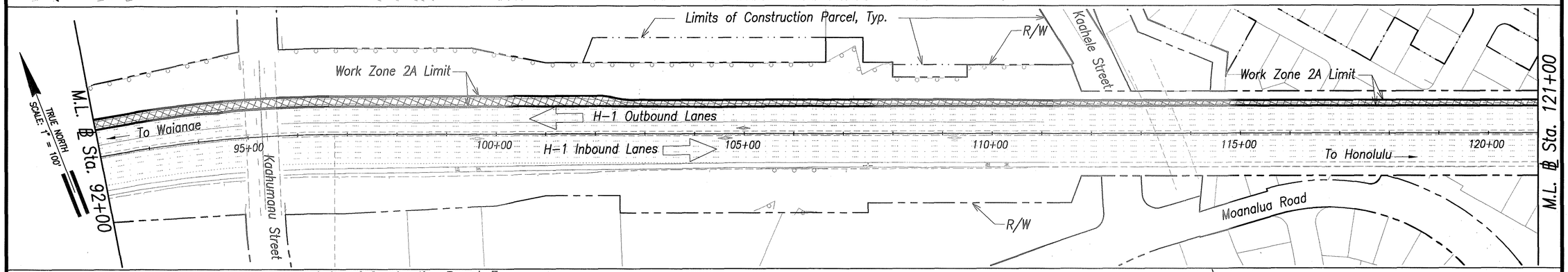
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=100' Date: Mar. 31, 2003

SHEET No. AC13.8 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	234	816





Note:

For Work Zone Notes and Schemes, see Sheets AC13.1 To AC13.7

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION WORK ZONE PLAN

WORK ZONES 2A - 2C

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

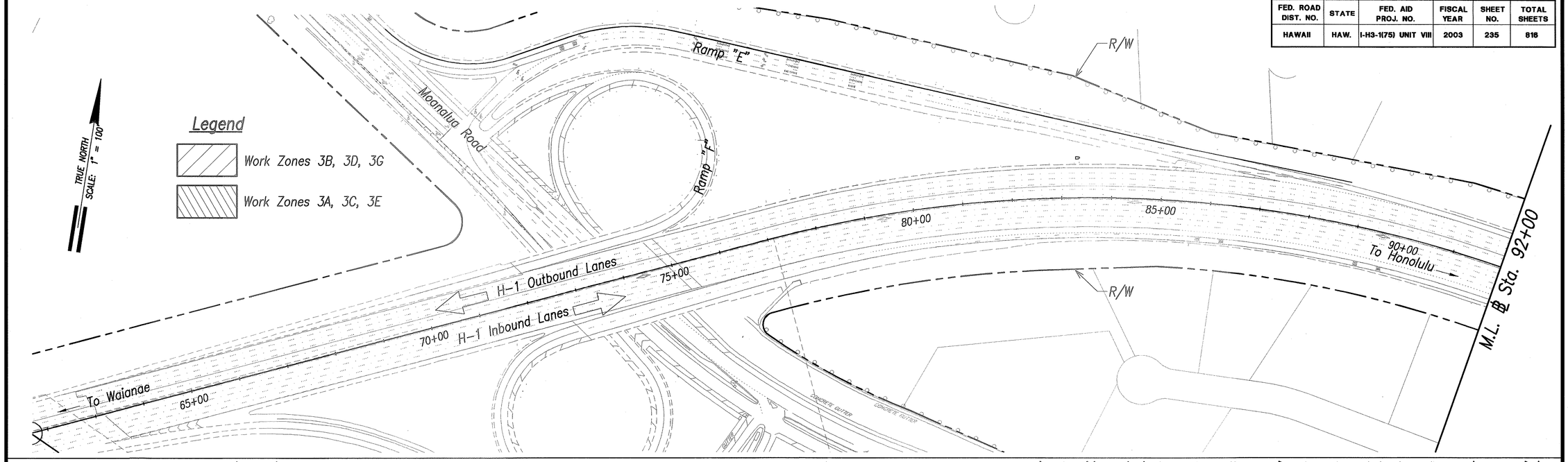
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SHEET No. AC13.9 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	235	816



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

Note:

For Work Zone Notes and Schemes, see sheets AC13.1 To AC13.7

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION WORK ZONE PLAN

WORK ZONES 3A – 3E & 3G

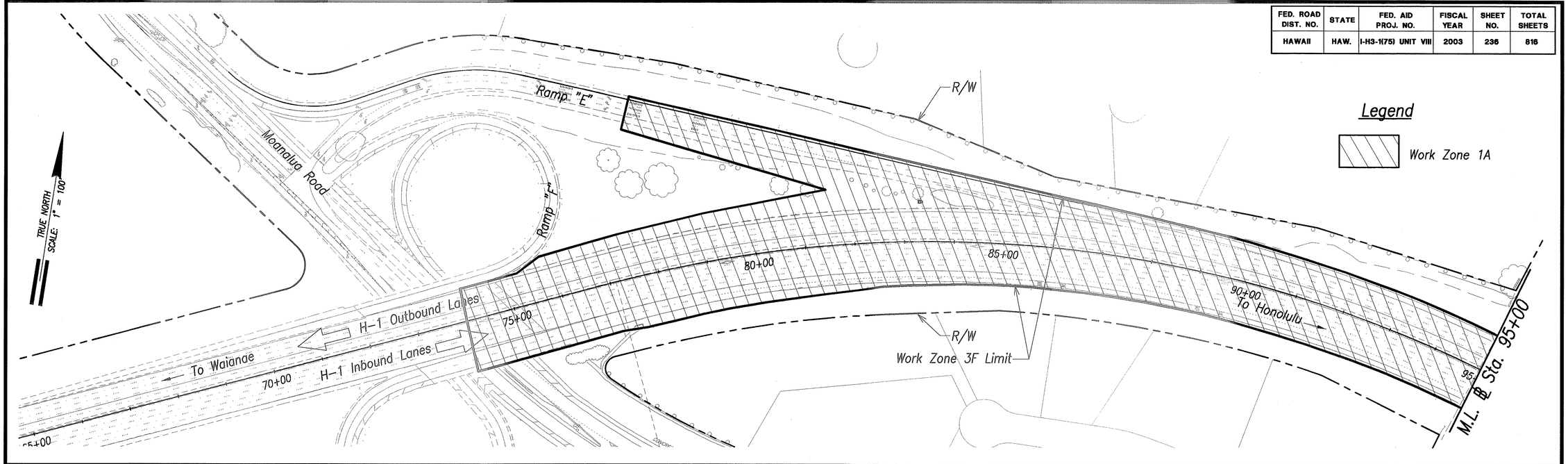
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

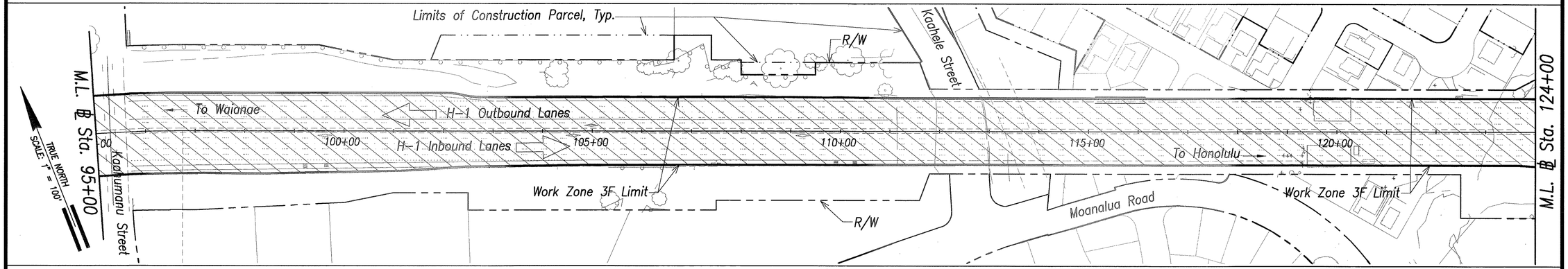
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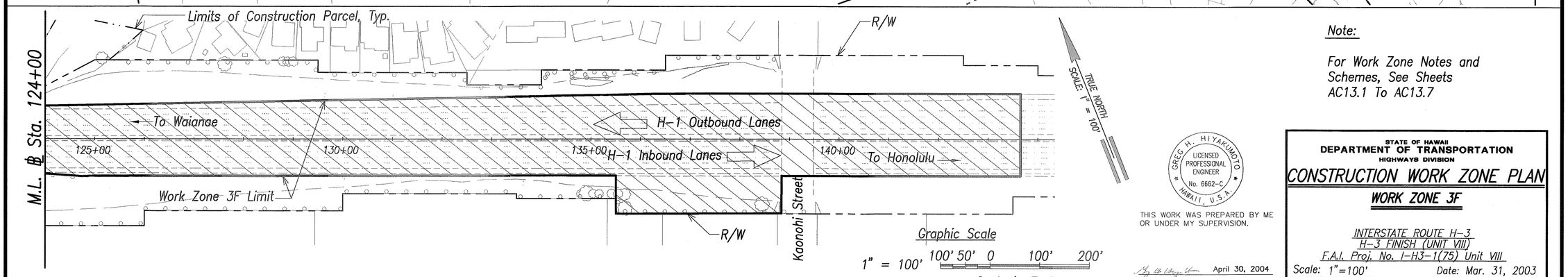
SHEET No. AC13.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	236	816







Note:

For Work Zone Notes and Schemes, See Sheets AC13.1 To AC13.7

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION WORK ZONE PLAN

WORK ZONE 3F

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=100' Date: Mar. 31, 2003

SHEET No. AC13.11 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	237	816



Legend

- Work Zone 4A
- Work Zone 4B
- Work Zone 4C
- Work Zone 4D
- Work Zone 4E
- Work Zone 4F
- Construction Parcel

Note:

For Work Zones Notes, see Sheet AC13.3

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

Graphic Scale

1" = 50' 50' 25' 0 50' 100'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION WORK ZONE PLAN

WORK ZONES 4A – 4F

SURFACE STREETS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=50' Date: Mar. 31, 2003

SHEET No. AC13.12 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 238	816

General Notes for Traffic Control Plan (City)

1. The permittee shall make minor adjustments at intersections, driveways, bridges, structures, etc., to fit field conditions.
2. Cones or delineators shall be extended to a point where they are visible to approaching traffic.
3. Traffic control devices shall be installed such that the sign or device farthest from the work area is placed first. The others shall then be placed progressively toward the work area.
4. Regulatory and warning signs within the construction zone that are in conflict with the traffic control plans shall be removed or covered. All signs shall be restored upon completion of work.
5. Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
6. When required by the issuing office, the permittee shall install a flashing arrow signal as shown on the traffic control plans.
7. All traffic lanes shall be a minimum of 10 feet wide.
8. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
9. The backs of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).
10. Lane closure shall be limited only to the extent of accomplishing each day's work. As soon as each day's work is completed, the permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation. Existing faded or obliterated pavement markings that are necessary for safe traffic flow in the construction area shall be replaced with temporary or permanent markings before opening the roadway to public traffic each day.
11. Permanent pavement markings and traffic signs shall be replaced upon completion of each phase of work.
12. Cones and delineators shall be spaced at a maximum distance of 20 feet apart. A minimum of six channelizing devices shall be used for each taper length.
13. Driveways shall be kept open unless the owners of the property using the right-of-way are otherwise provided for satisfactorily. Further, the permittee shall control traffic going in and out of driveways.
14. Buffer and taper areas on approach to any work area shall be kept clear of vehicles, equipment and material.
15. A high level warning device (flag tree) shall be installed on approach to all work areas.
16. "No Parking" signs shall be posted within any work area and for the buffer and taper areas approaching the work area.
17. A minimum 4' clear pedestrian access route shall be provided around work areas at all times.
18. The backs of all signs used for temporary traffic control shall have in one-inch block lettering the name of the contractor and the project number.

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

TABLE 1 FOR TRAFFIC CONTROL PLAN

Posted Speed Limit (M.P.H.)	Sign Spacing (D) (Feet)	Taper Length (T) (Feet)		Longitudinal Buffer Space (B) (Feet)	Spacing of Cones or Delineators (Feet)		
		W = 12' or Less	W = Greater Than 12'		Taper	Tangent	Work Area
40	500	350	W x 30	170	40	40	10
45	500	550	W x 45	220	45	45	10
50	1000	600	W x 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10

Note: W = Width of Lane, Shoulder, or Offset

General Notes for Traffic Control Plan (State)

1. The permittee shall make minor adjustments at intersections, driveways, bridges, structures, etc., to fit field conditions.
2. Cones or delineators shall be extended to a point where they are visible to approaching traffic.
3. Traffic control devices shall be installed such that the sign or device farthest from the work area shall be placed first. The others shall then be placed progressively toward the work area.
4. Regulatory and warning signs within the construction zone that are in conflict with the traffic control plans shall be removed or covered. Covering shall be made of durable material, resistant to UV and weather deterioration, subject to apporval by the Engineer. All signs shall be restored upon completion of the work.
5. Police officers shall be in sight of each other or in direct communication at all times.
6. When required by the issuing office, the permittee shall install a flashing arrow signal as shown on the traffic control plans.
7. Sign spacings (I), taper lengths (t) and spacings of cones or delineators shall be as shown in Table 1, unless otherwise noted on the traffic control plans.
8. All traffic lanes on H-1 shall be a minimum of 11 feet wide. All traffic lanes on other state roadways shall be a minimum of 10 feet wide.
9. All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
10. The backs of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).
11. At the end of each day's work or as soon as the work is completed, the permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation.
12. Replace permanent pavement markings and traffic signs upon completion of each phase of work.
13. All work zone traffic control devices shall comply with the "Statewide Guideline for Work Zone Traffic Control Devices", dated September 13, 2000.

3 Legend

- Cones or Delineators at Spacing Shown on Plan
- Type III Barricades
- Moveable Barrier
- Sign
- Work Area
- High Level Warning Device
- Direction of Traffic Flow
- Flashing Arrow Panel
- Police Officer w/ vehicle, w/ flashing, blue light.

14. The backs of all signs used for temporary traffic control shall have in one-inch block lettering the name of the contractor and the project number.
15. All portable concrete barriers shall be linked and anchor pins shall be used as shown in TE-64 Std. Plans. All holes made by anchors shall be repaired in such a manner that the repair shall visually match the surrounding pavement and shall be level with the surrounding pavement.
16. Water-filled portable barriers shall not be used on the H-1 Freeway, unless designated on the plans.
17. When using the moveable concrete barrier (MCB) the Contractor shall access the work zone through the ends of the MCB. Intermediate openings, other than as shown on the plans, shall not be allowed unless approved by the Engineer.
18. The moveable concrete barrier shall not be substituted with other devices.
19. Contractor shall utilize variable message signs to warn motorists of planned and occurring lane closures.
20. Contractor shall coordinate with the State & City and participate in the public information program for this project.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE 7/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

APPROVED:

Chief, Traffic Review Branch, DPP (for work within City R/W only) — 6/26/03 Date

DATE	REVISION
6/20/03	3 Revised Legend and General Notes for Traffic Control Plan (State) No. 5.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
NOTES AND LEGEND

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

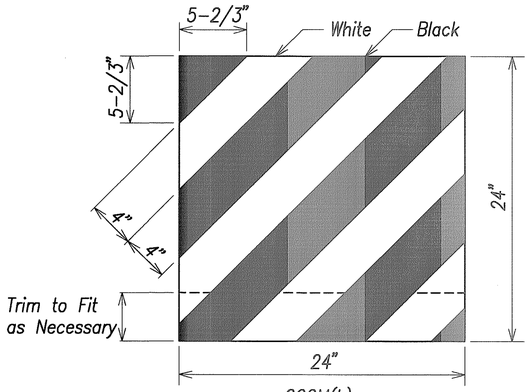
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SHEET No. AC14.1 OF 350 SHEETS

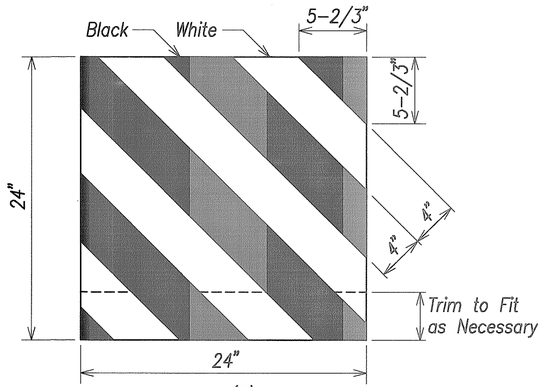
RMTC JOB NO.: 1-19369-OE

ADD. 238

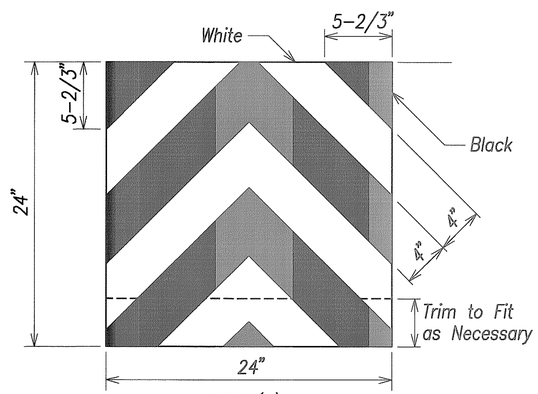
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD 238S-1	816



CCOM(L)
CRASH CUSHION
OBJECT MARKER DETAIL
Scale: 1" = 6"



CCOM(R)
CRASH CUSHION
OBJECT MARKER DETAIL
Scale: 1" = 6"



CCOM(C)
CRASH CUSHION
OBJECT MARKER DETAIL
Scale: 1" = 6"

CCOM Notes:

1. Crash Cushion Object Marker (CCOM) shall be installed on a Crash Cushion whenever an Object Marker is not provided by the Manufacturer.
2. The stripes for CCOM shall slope downward at an angle of 45° towards the sides of the crash cushion where traffic is to pass.
3. (R), (L), or (C) indicates Right, Left, or Center Crash Cushion Markers (CCOM). Providing and installing of CCOM shall be considered incidental to Crash Cushion.

Graphic Scale

1" = 6" 6" 3" 0 6" 12"

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

NOTES AND DETAILS

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1" = 6" Date: Mar. 31, 2003

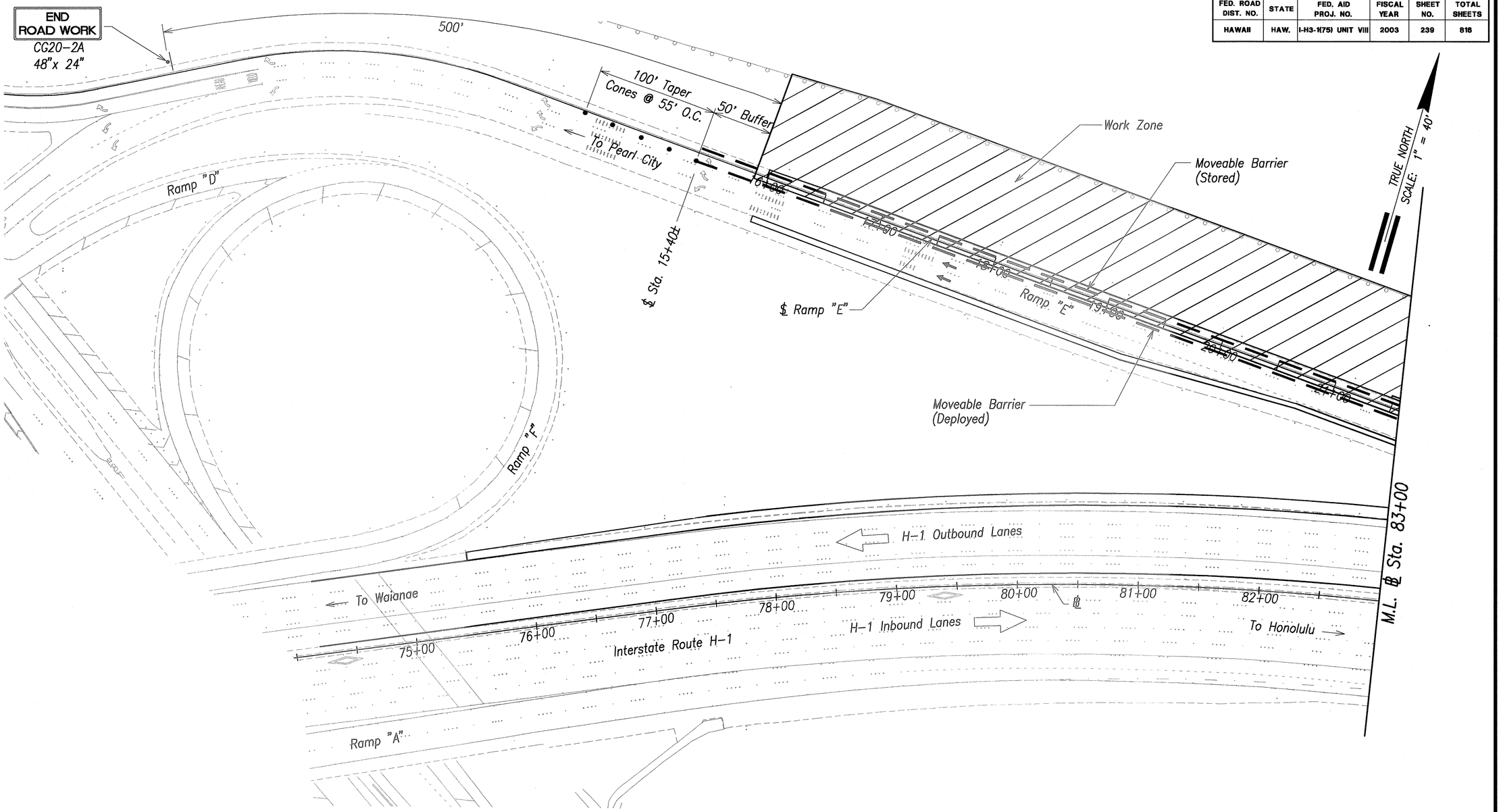
SHEET No. AC14.1A OF 350 SHEETS

DATE	REVISION
10/16/03	5 Added Sheet.

RMTC JOB NO.: 1-19369-OE

ADD. 238S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	239	816



H-1 WESTBOUND – 1-LANE CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

GREG H. HIYAKUMOTO
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME A

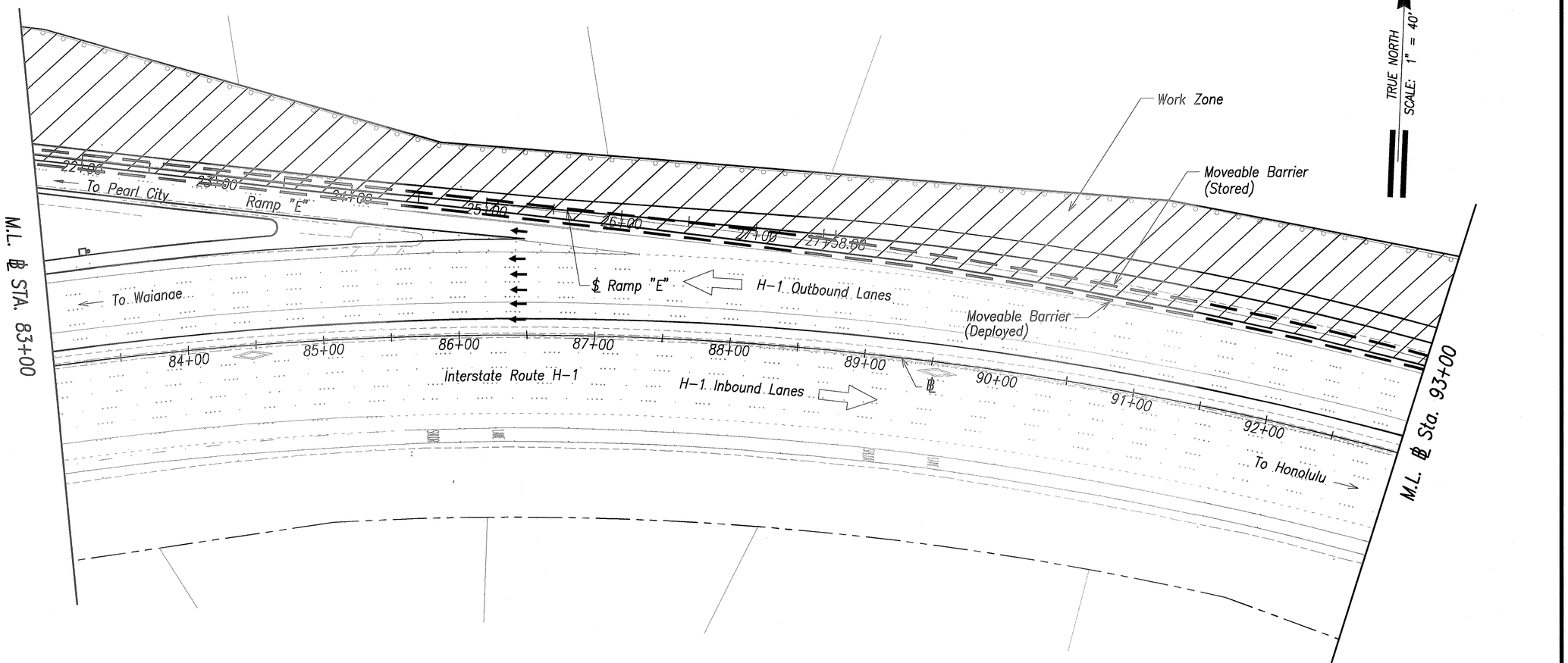
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	240	816



H-1 WESTBOUND - 1-LANE CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME A

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

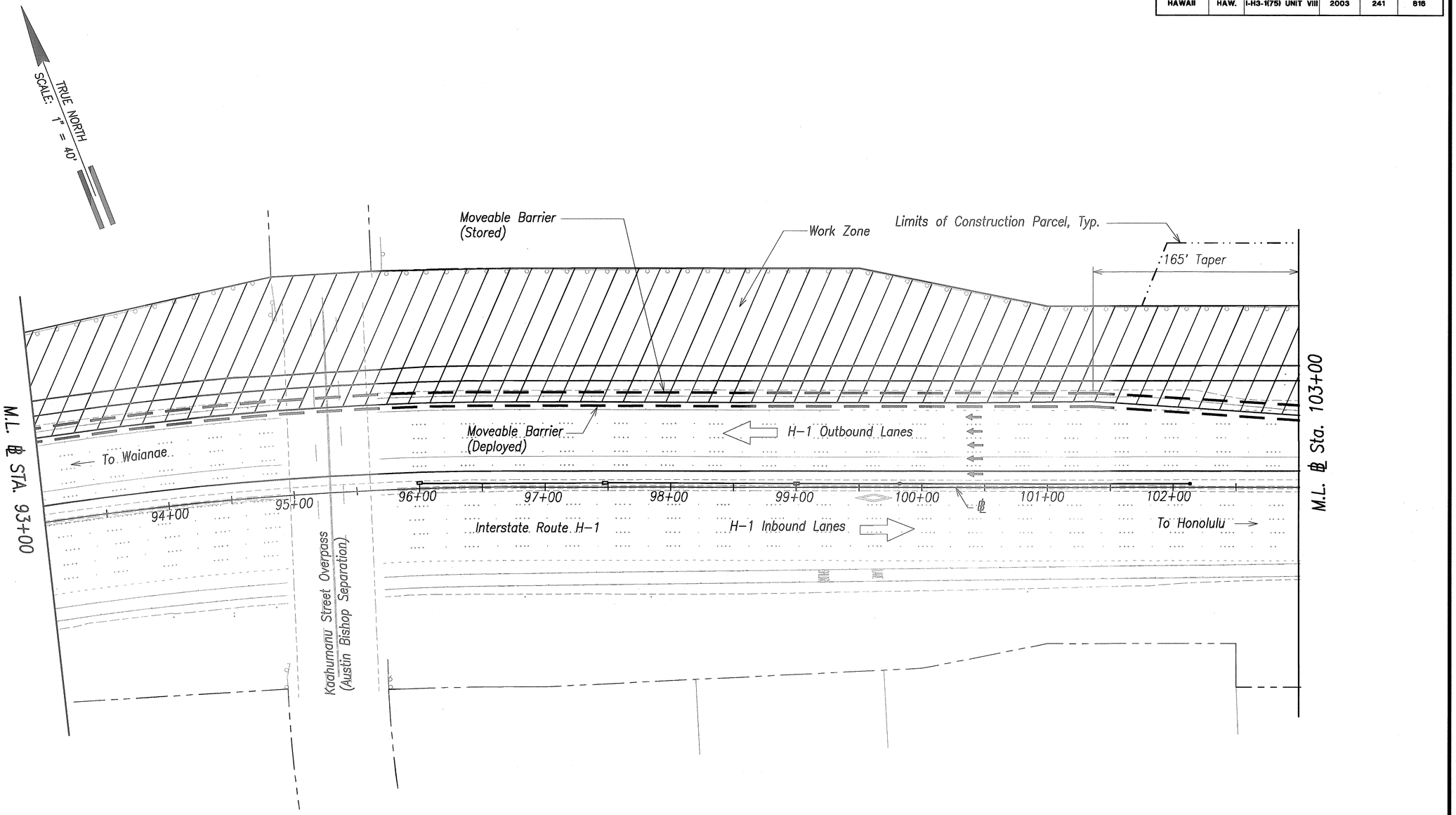
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SHEET No. AC14.3 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	241	816



H-1 WESTBOUND – 1-LANE CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME A

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

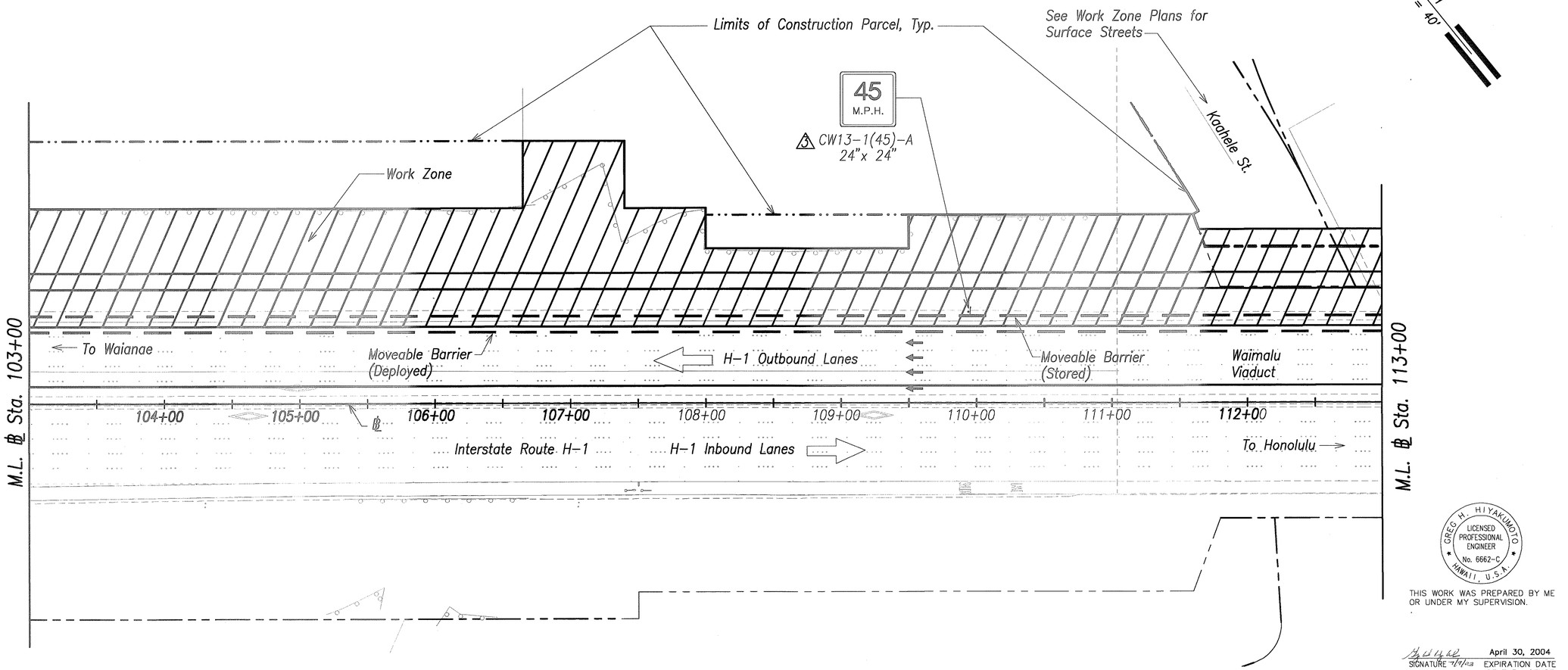
SHEET No. AC14.4 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 242	816

TRUE NORTH
SCALE: 1" = 40'



GREG H. HIYAKUMOTO
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HAWAII, U.S.A.

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SIGNATURE 4/7/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

H-1 WESTBOUND – 1-LANE CLOSURE

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

DATE	REVISION
6/20/03	5 Revised Callouts

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME A

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

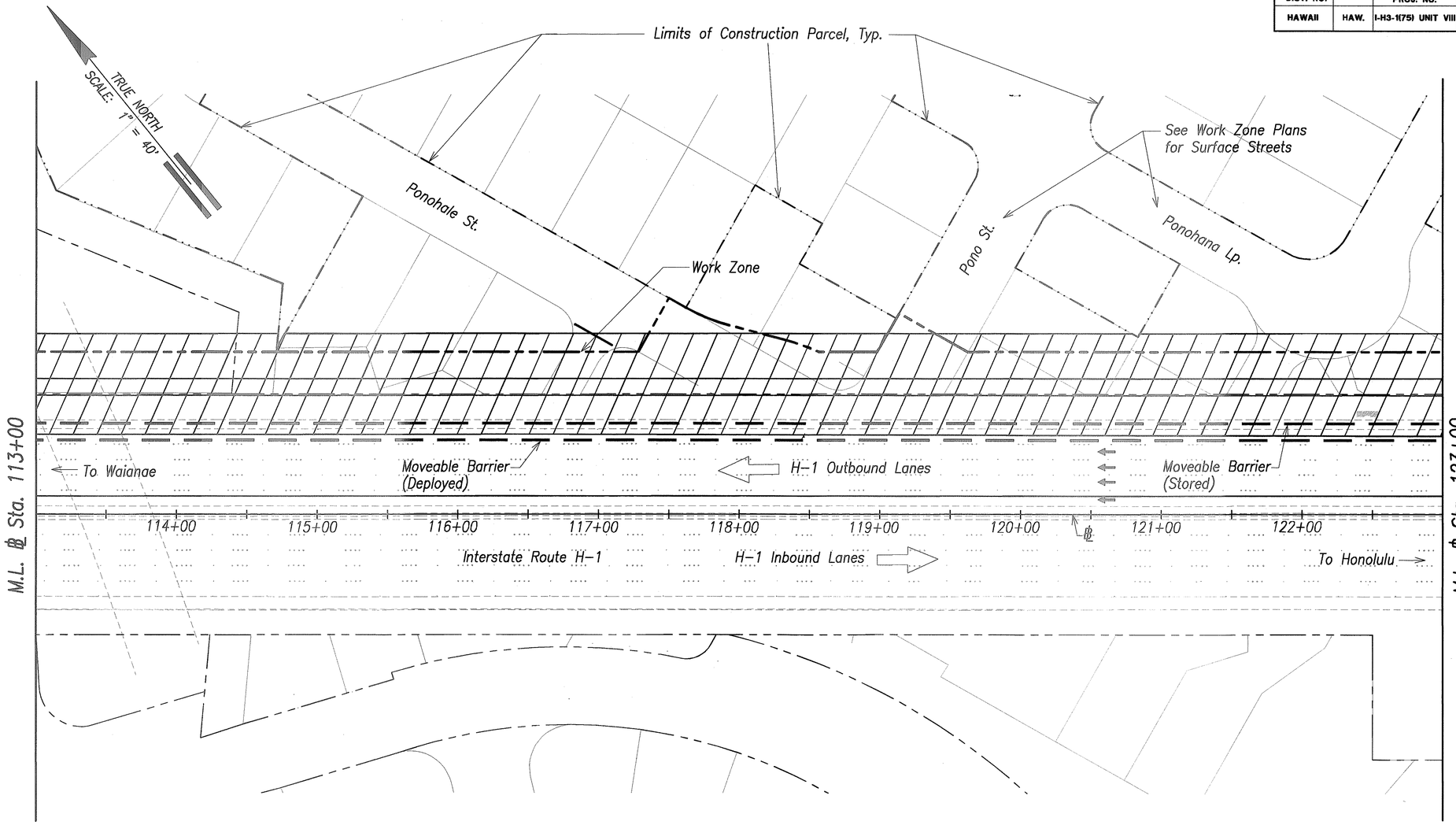
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.5 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 242

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	243	816



H-1 WESTBOUND - 1-LANE CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME A

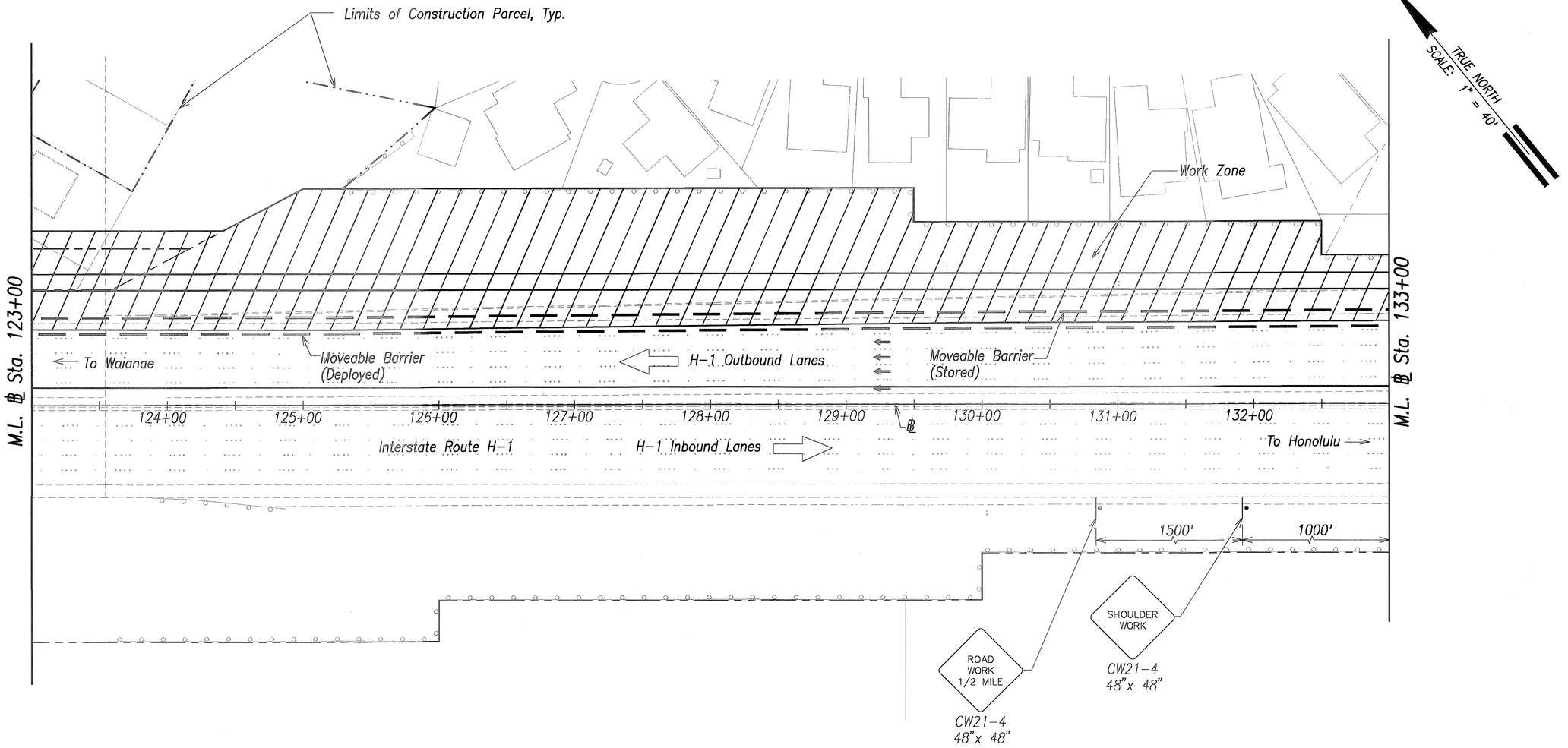
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.6 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	244	816



H-1 WESTBOUND – 1-LANE CLOSURE & H-1 EASTBOUND RIGHT SHOULDER CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME A

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

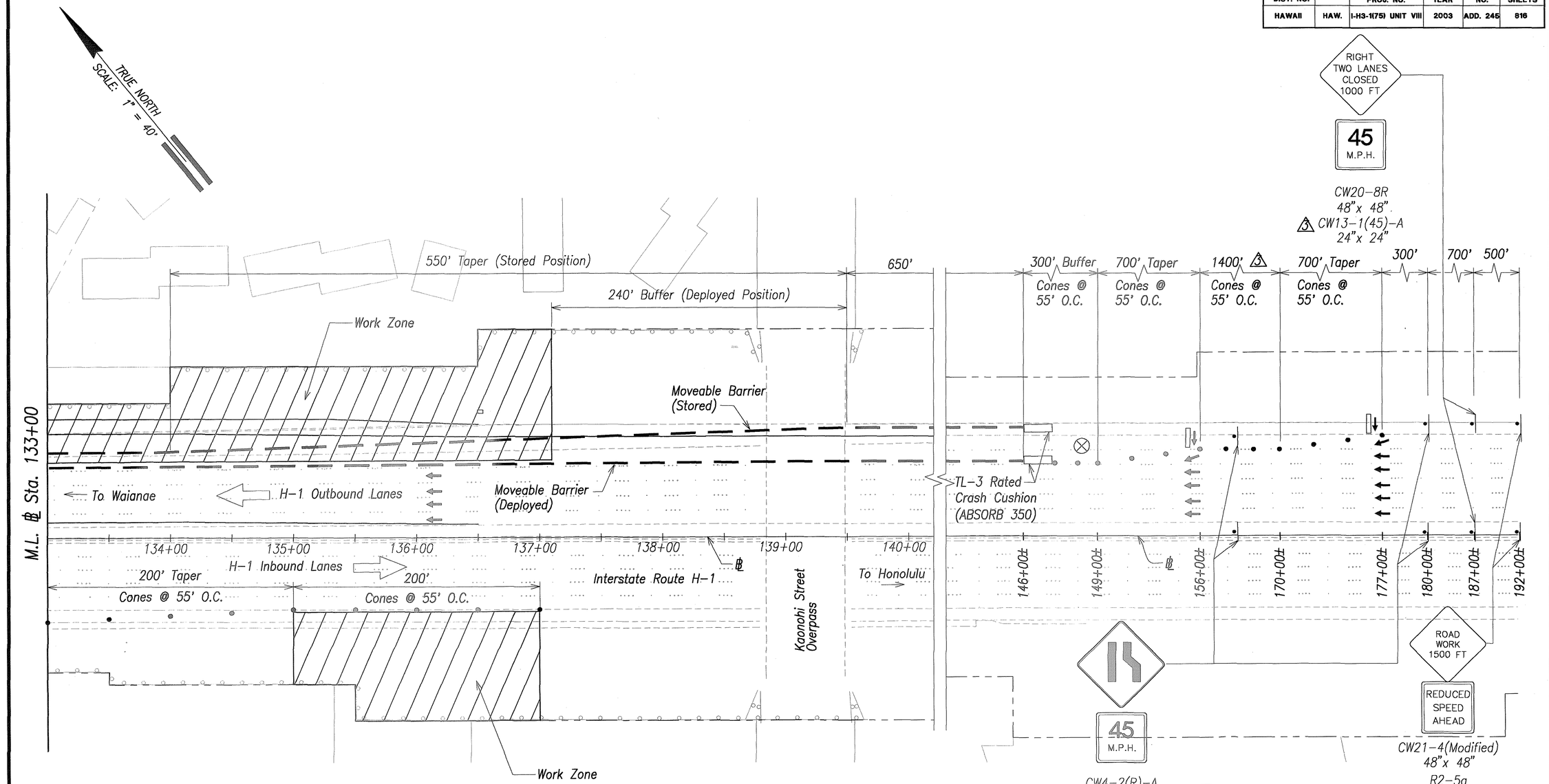
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.7 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 245	816



H-1 WESTBOUND – 1-LANE CLOSURE & H-1 EASTBOUND RIGHT SHOULDER CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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DATE	REVISION
6/20/03	3 Revised Callouts

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME A

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

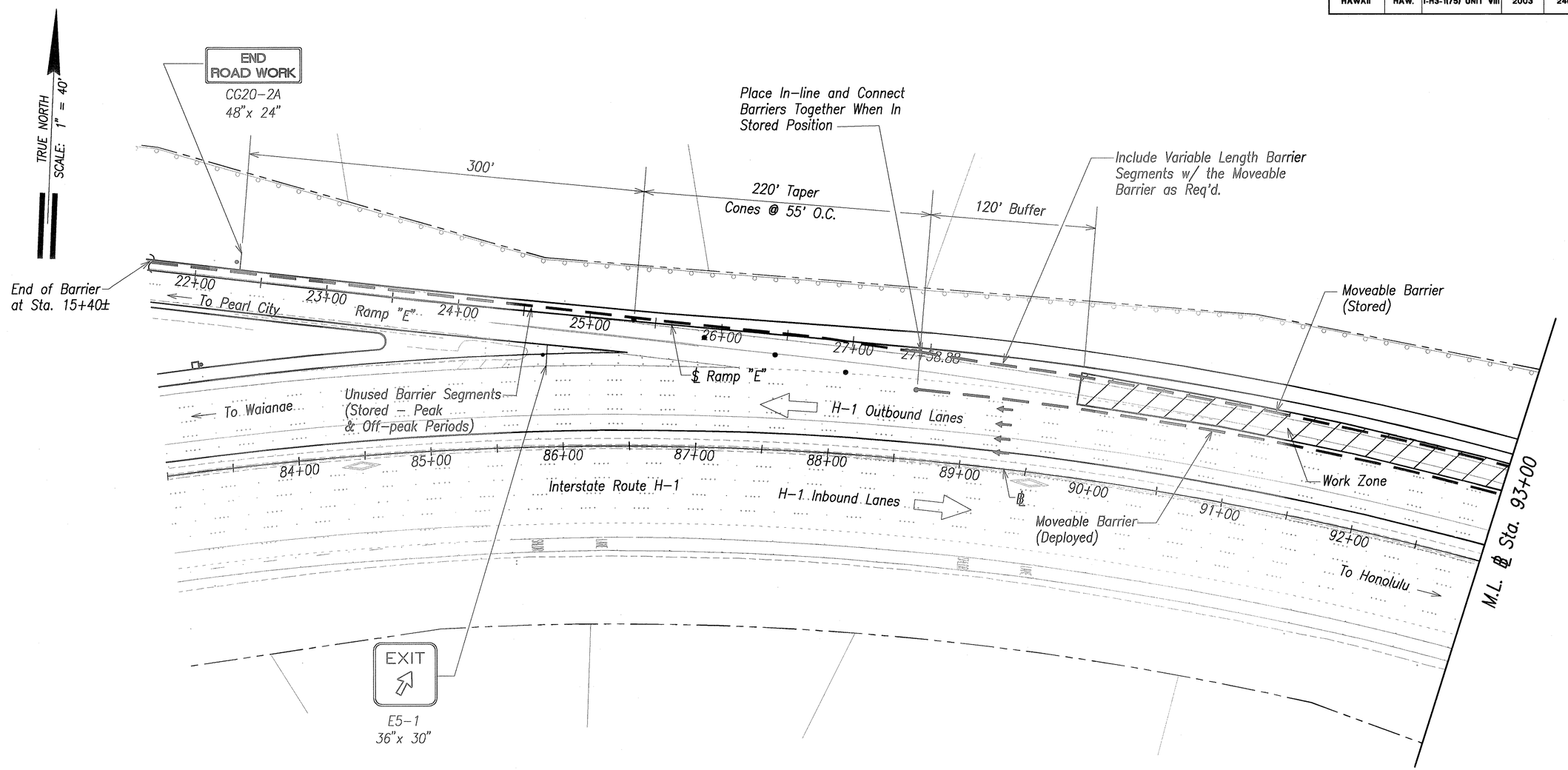
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.8 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 245

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	246	816



H-1 WESTBOUND - 2-LANE CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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LICENSED PROFESSIONAL ENGINEER
No. 6662-C
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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME B

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

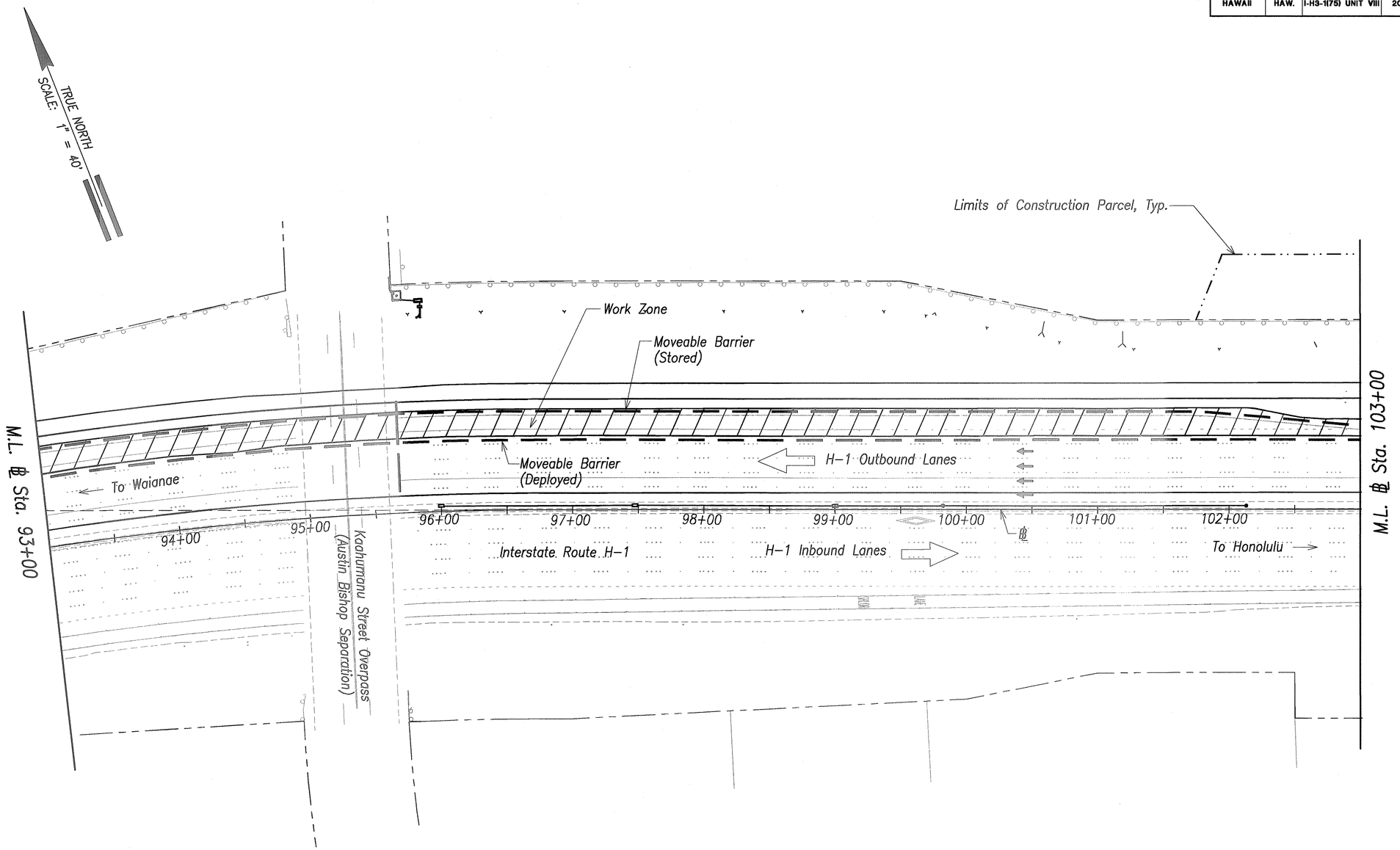
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.9 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	247	816



H-1 WESTBOUND - 2-LANE CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME B

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

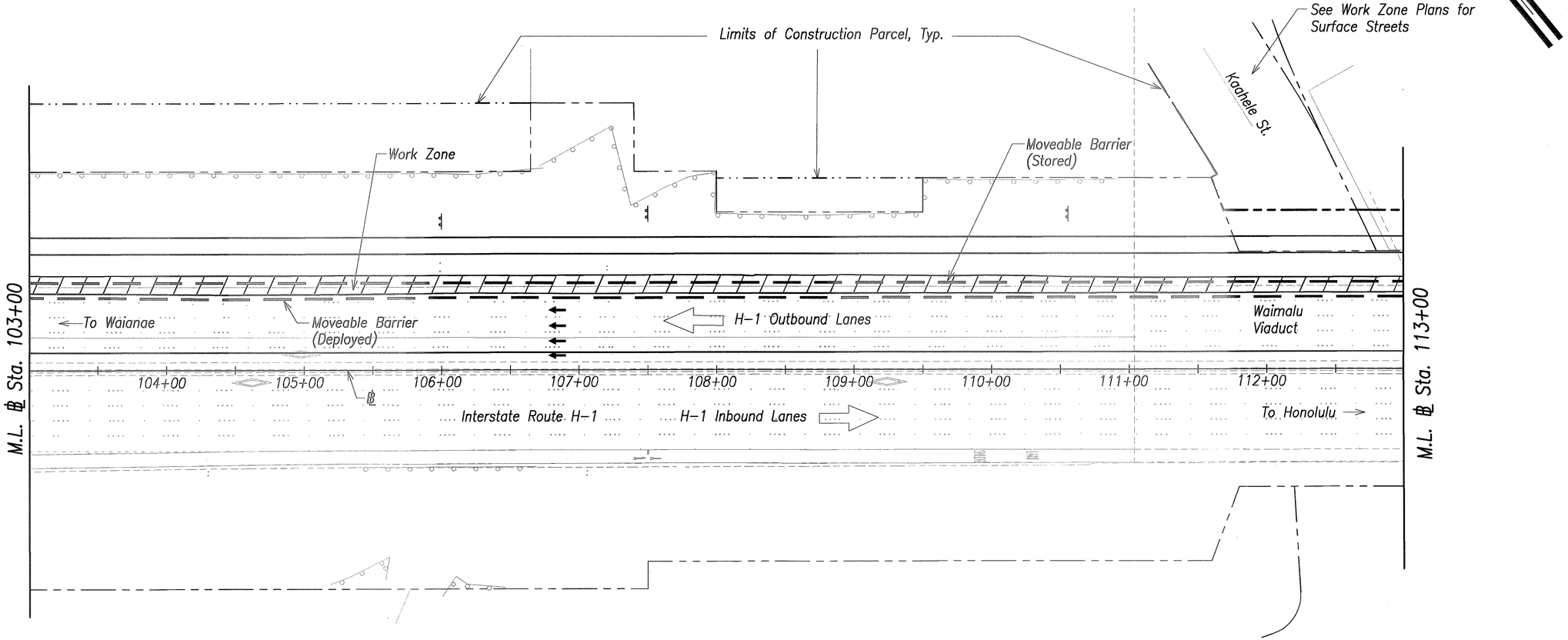
SHEET No. AC14.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

247

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	248	816

TRUE NORTH
SCALE: 1" = 40'



H-1 WESTBOUND – 2-LANE CLOSURE

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

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

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME B

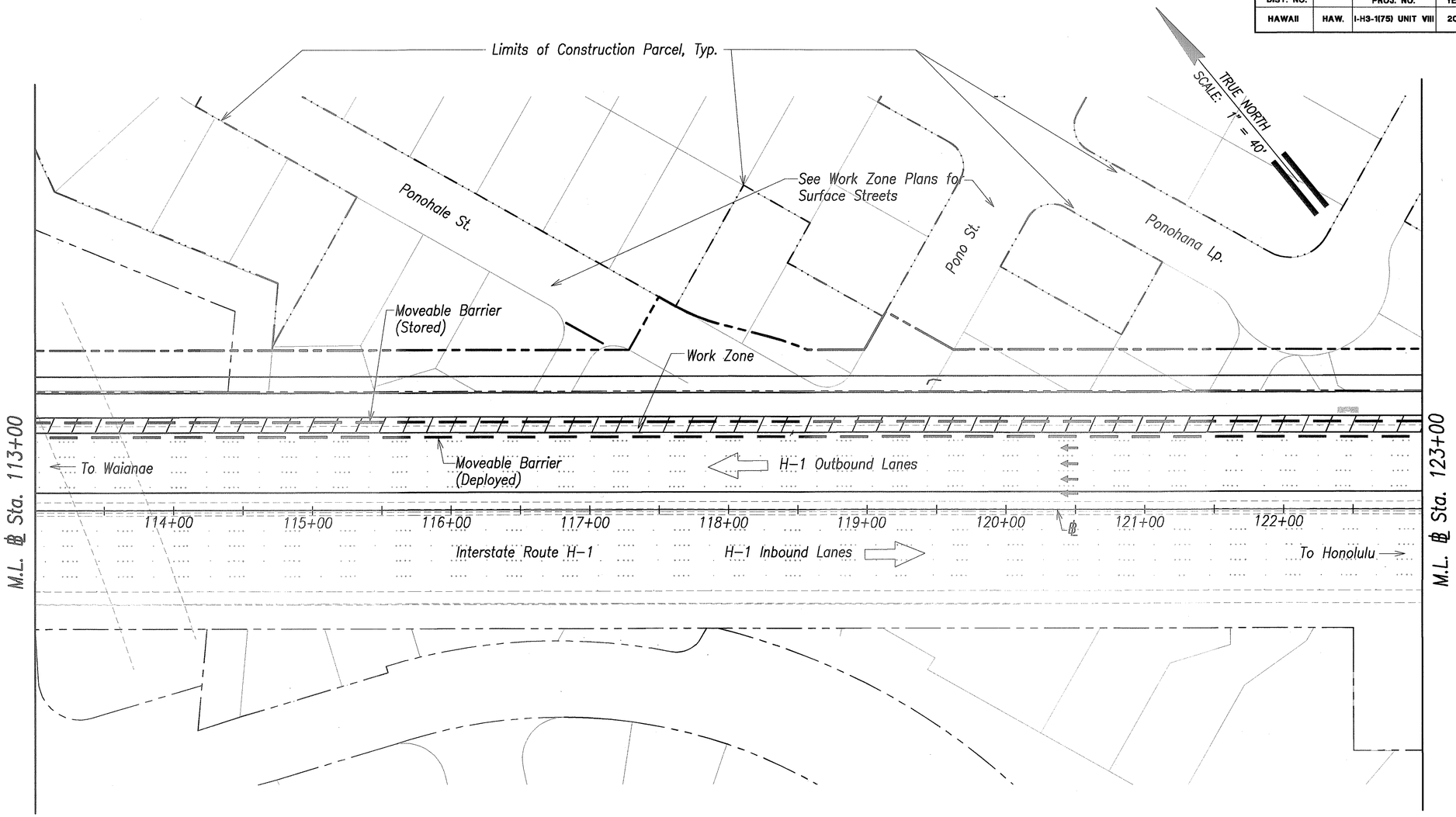
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.11 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	249	816



H-1 WESTBOUND – 2-LANE CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME B

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

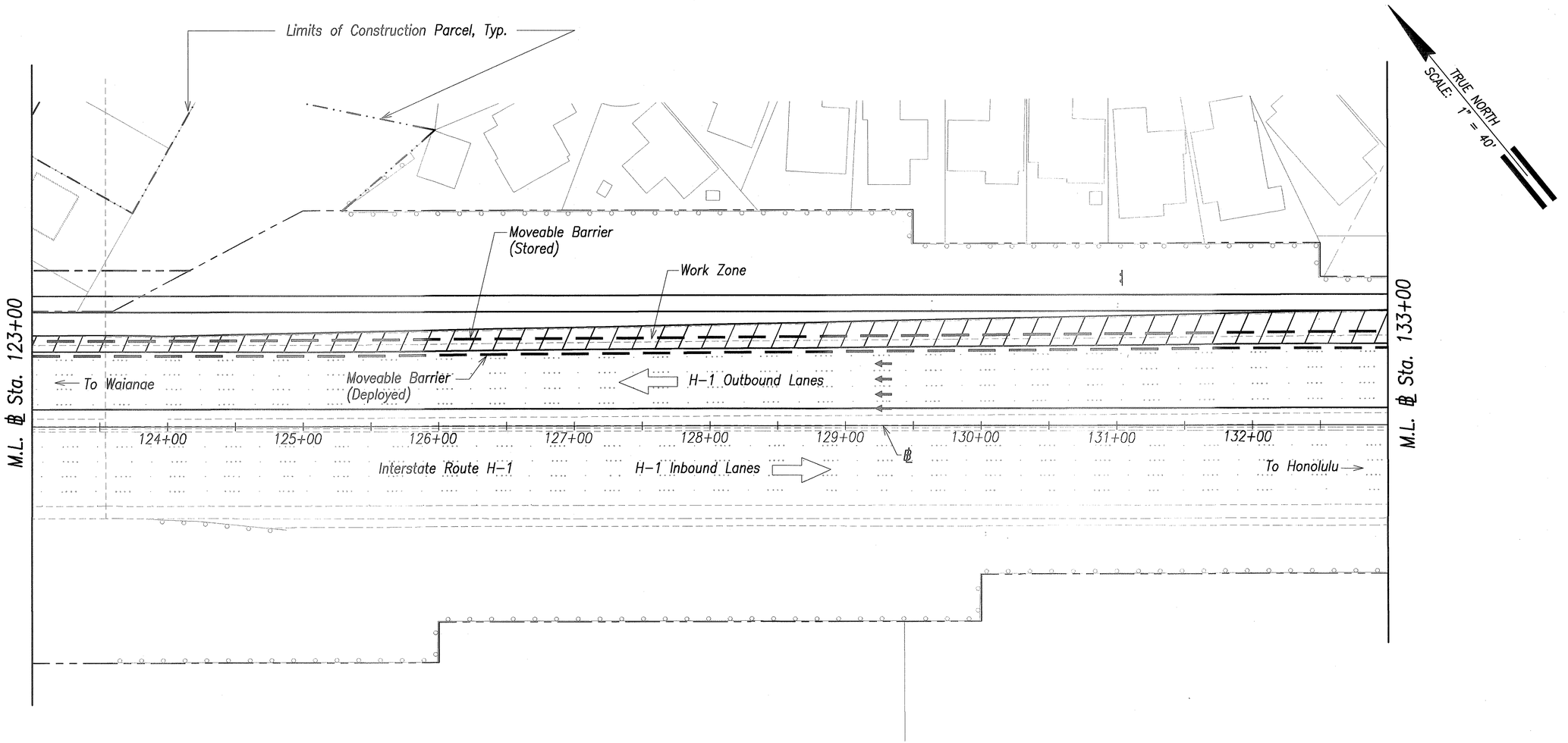
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.12 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	250	816



H-1 WESTBOUND – 2-LANE CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

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No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME B

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

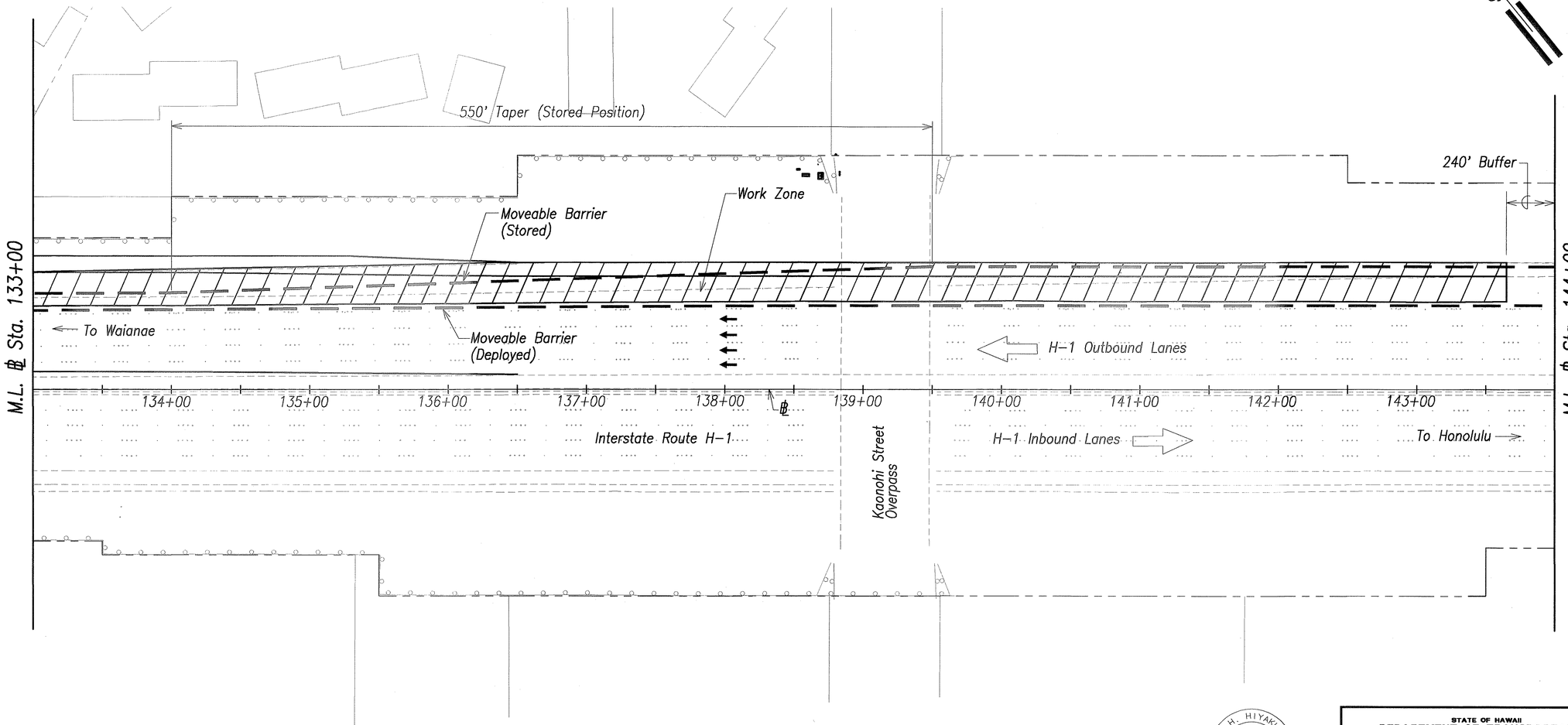
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.13 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	251	816

TRUE NORTH
SCALE: 1" = 40'



H-1 WESTBOUND - 2-LANE CLOSURE

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

GREG H. HIYAKUMOTO
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No. 6662-C
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April 30, 2004
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME B

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

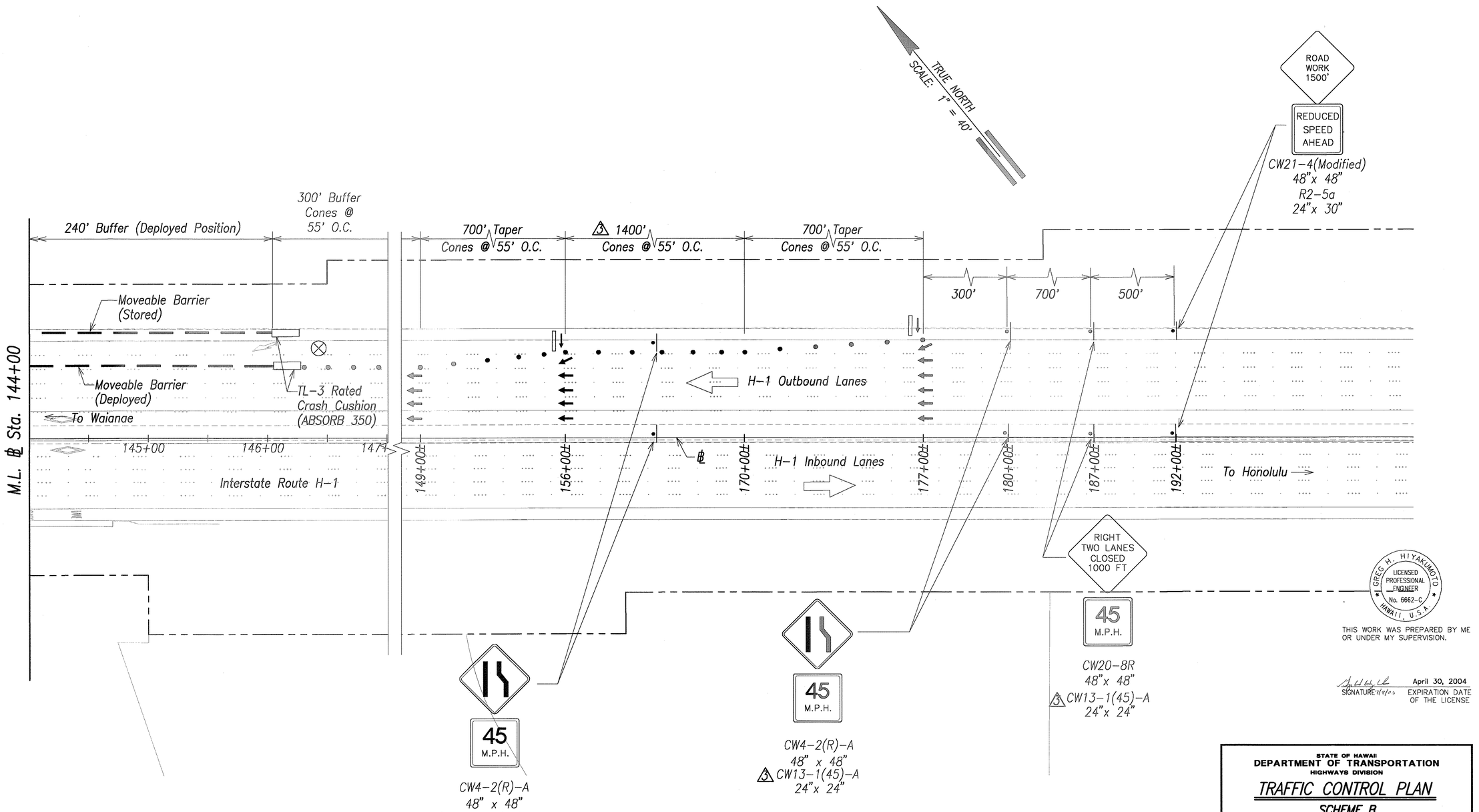
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.14 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 252	816



H-1 WESTBOUND – 2-LANE CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Callouts

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME B

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.15 OF 350 SHEETS

ADD. 252

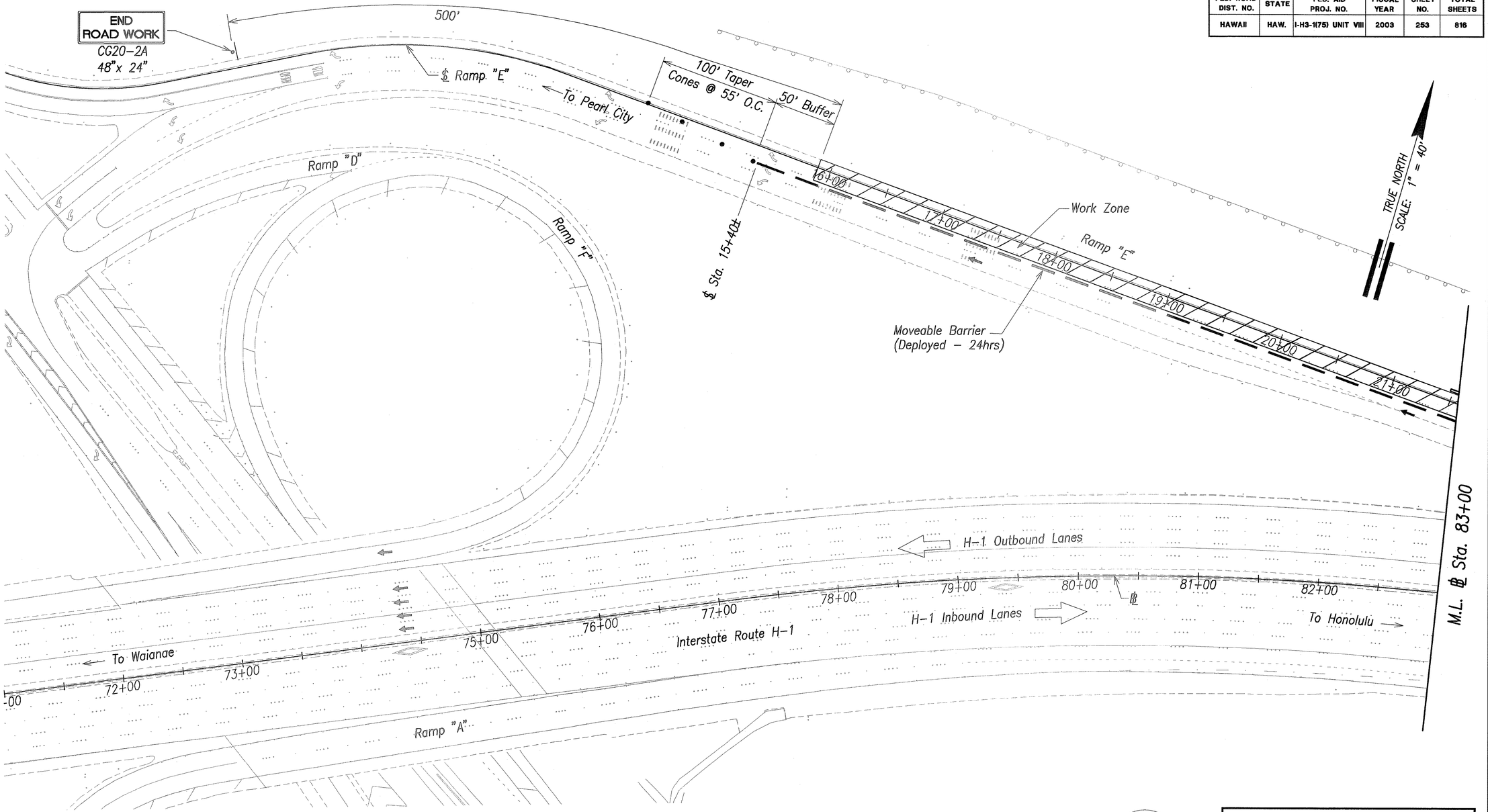
ORIGINAL PLAN

NOTE BOOK No.

SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	253	816



PEARL CITY OFF-RAMP – RIGHT-LANE CLOSURE

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME C

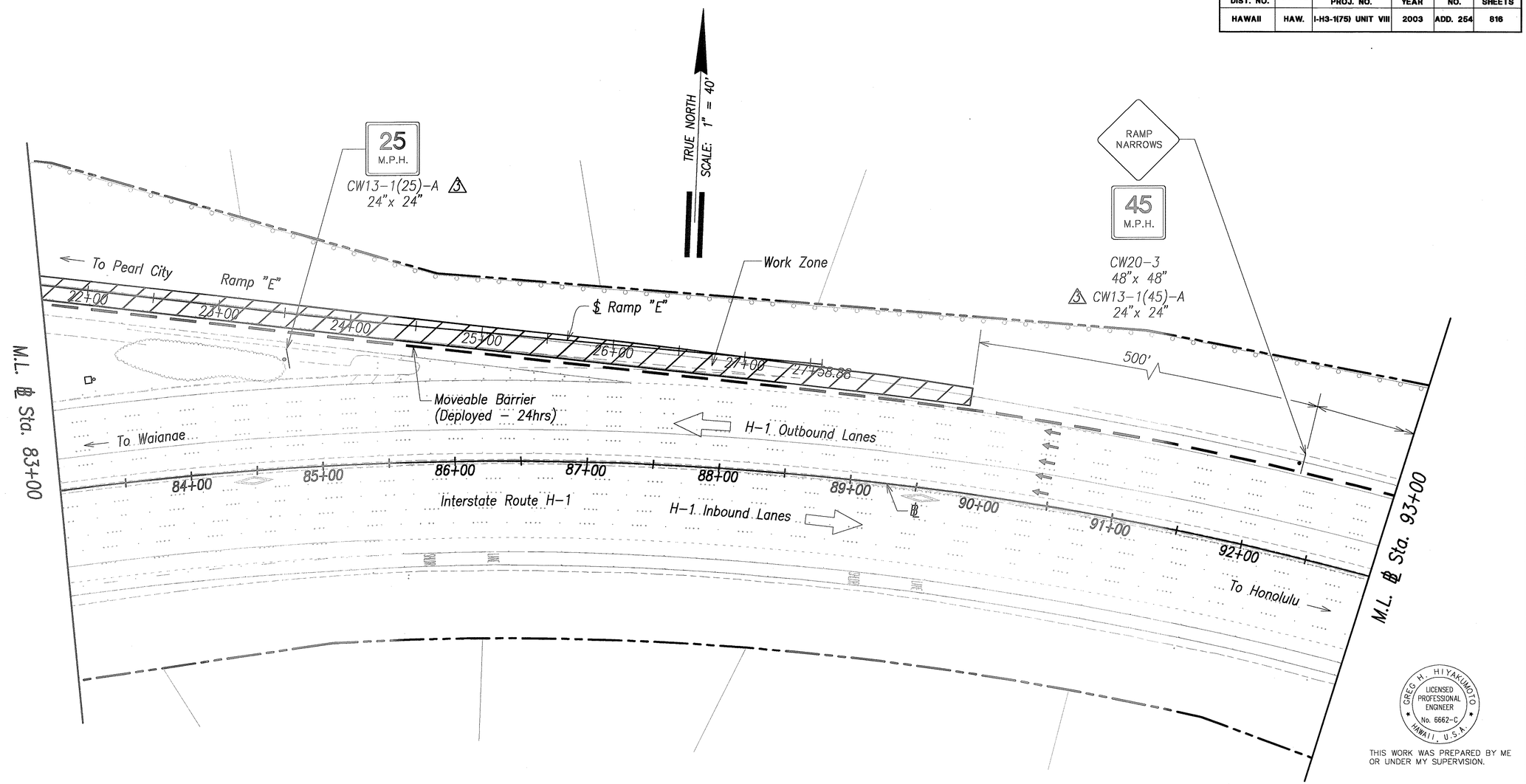
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.16 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 254	816



GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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ORIGINAL PLAN
NOTE BOOK
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SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

PEARL CITY OFF-RAMP – RIGHT-LANE CLOSURE

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

DATE	REVISION
6/20/03	⚠3 Revised Callouts

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME C

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

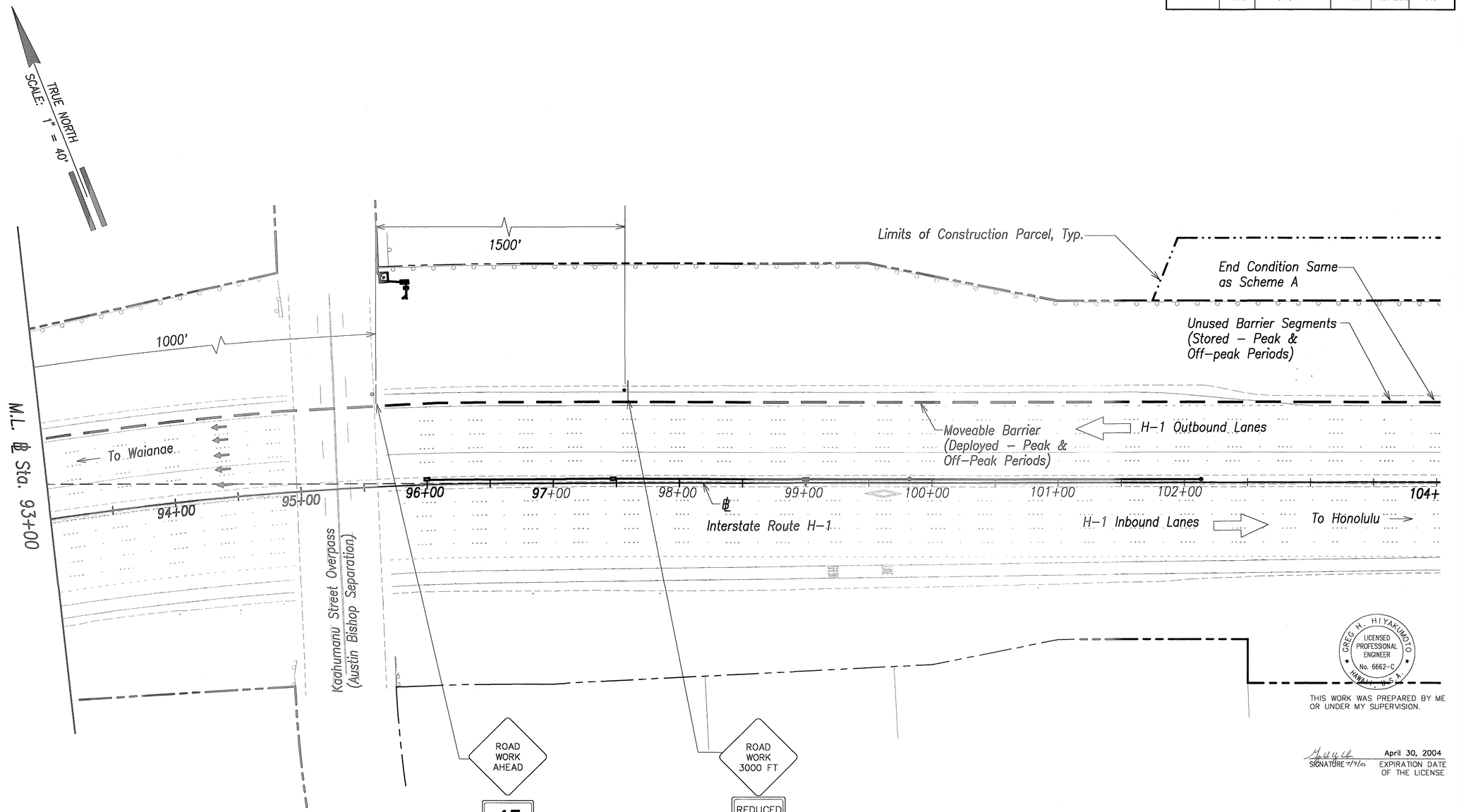
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.17 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 254

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 255	816



PEARL CITY OFF–RAMP – RIGHT–LANE CLOSURE

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662–C
HAWAII, U.S.A.

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SIGNATURE 7/9/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Revised Callouts

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME C

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

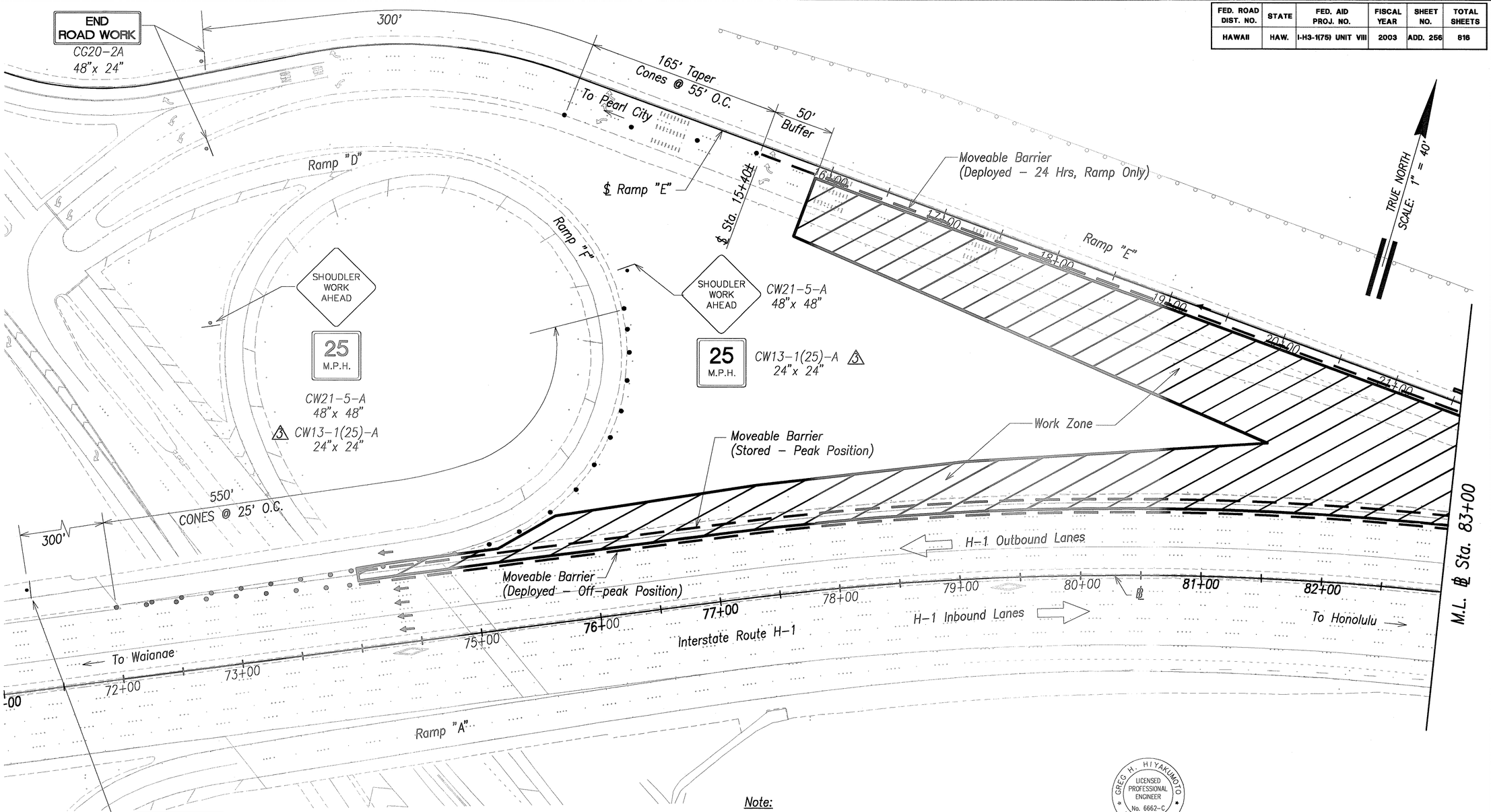
SHEET No. AC14.18 OF 350 SHEETS

ADD. 255

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

RMTC JOB NO.: 1–19369–0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 256	816



H-1 WESTBOUND – 1-LANE CLOSURE AND PEARL CITY OFF-RAMP – LEFT-LANE CLOSURE

Note:

Approx. 1600lf of Moveable Barrier from H-1 ℄ Sta. 74+00± to 90+00± relocated temporarily from original position at H-1 ℄ Sta. 90+00± to 106+00± for this TCP scheme.

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Revised Callouts

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME D

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

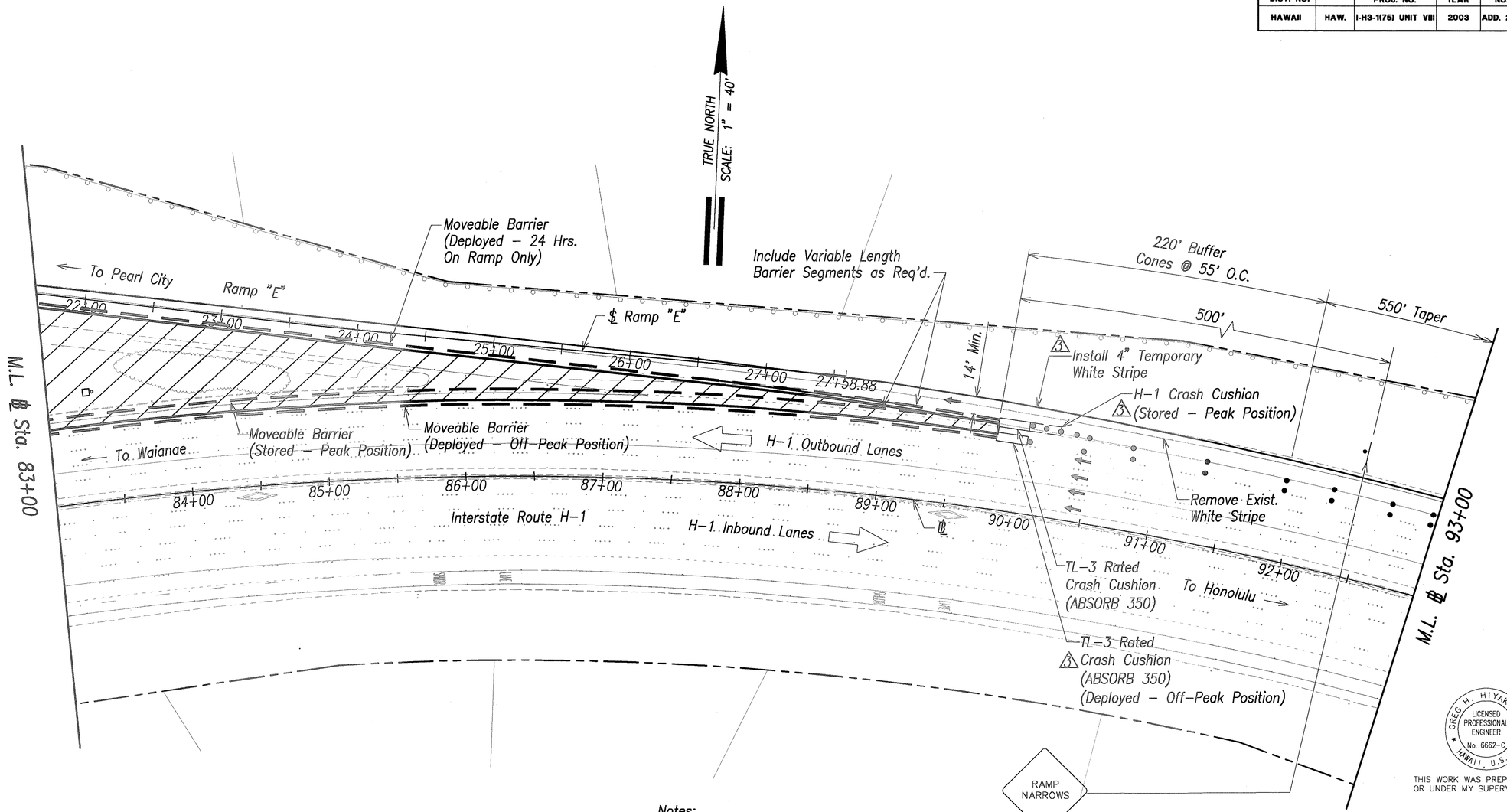
SHEET No. AC14.19 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 256

FED. ROAD DIST. NO.	STATE	FED. AID. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 257	816



H-1 WESTBOUND – 1-LANE CLOSURE AND PEARL CITY OFF-RAMP – LEFT-LANE CLOSURE

Notes:

1. Approx. 1600lf of Moveable Barrier from H-1 ℄ Sta. 74+00± to 90+00± relocated temporarily from original position at H-1 ℄ Sta. 90+00± to 106+00± for this TCP scheme.
2. Cones shall be used only while H-1 Moveable Barrier is in the deployed position.

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
6/20/03	3 Added H-1 Crash Cushion (Stored – Peak position); Replaced Cones with Temporary White Stripe.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 7/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME D

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

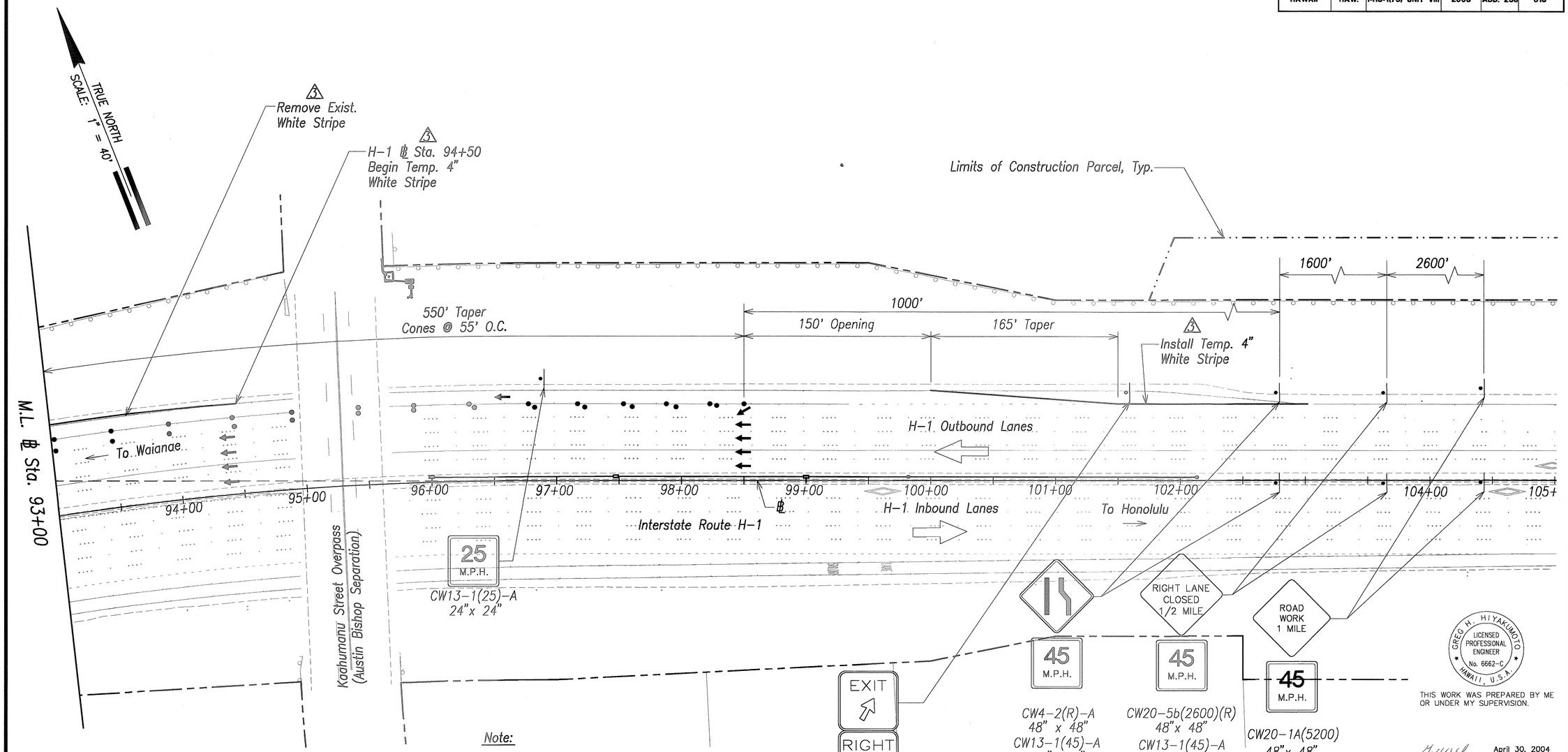
SHEET No. AC14.20 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 257

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 258	816



Note:

1. Remainder of Moveable Barrier from H-1 ℄ Sta. 106+00± to H-1 ℄ Sta. 146+00± shall be placed in the Stored Position as shown in Scheme A.
2. Cones shall be used only while H-1 Moveable Barrier is in the deployed position.

H-1 WESTBOUND – 1-LANE CLOSURE AND PEARL CITY OFF-RAMP – LEFT-LANE CLOSURE

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

DATE	REVISION
6/20/03	3 Replaced Cones with Temporary White Stripe.

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME D

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

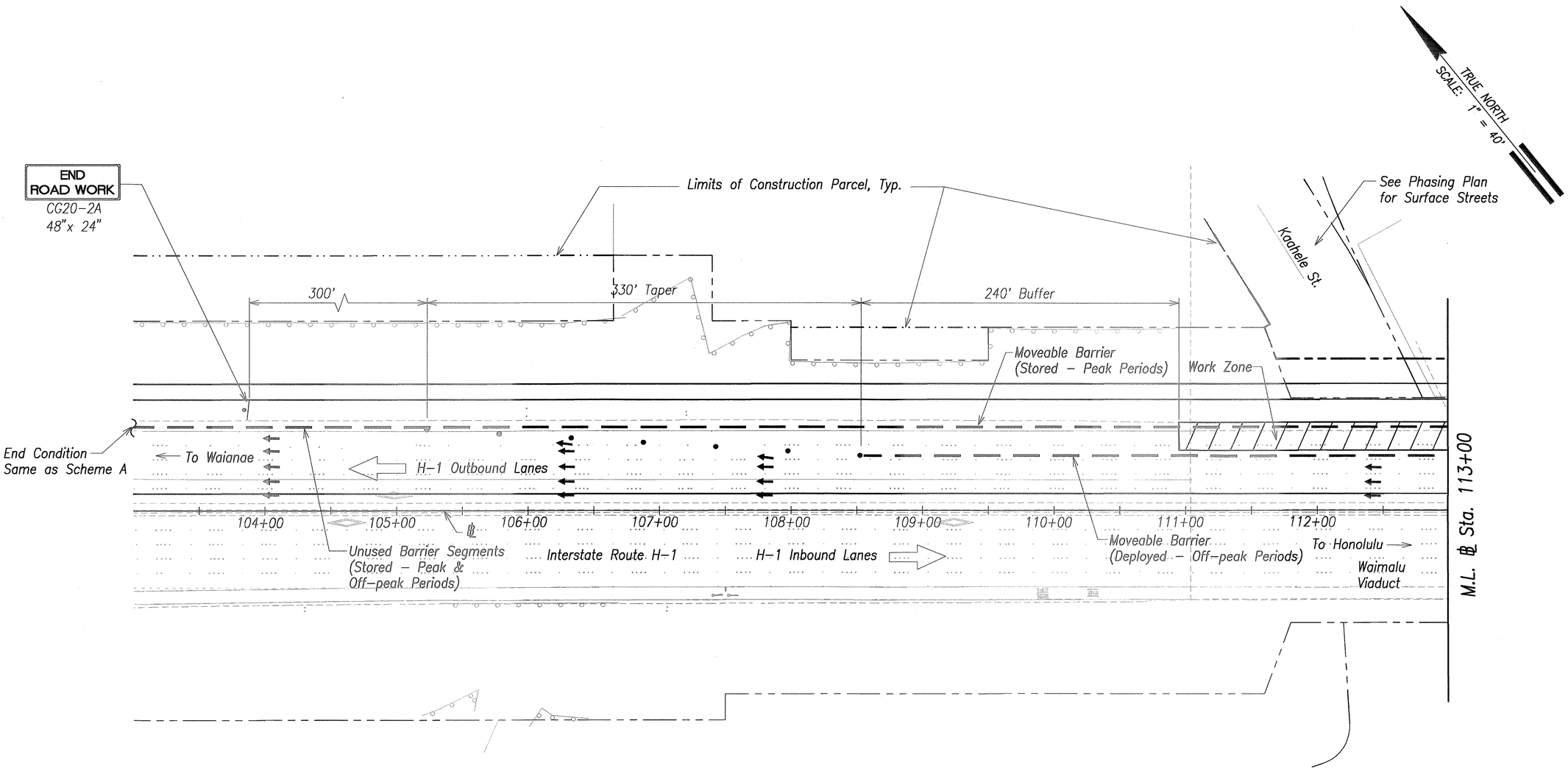
SHEET No. AC14.21 OF 350 SHEETS

ADD. 258

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	259	816



H-1 WESTBOUND – 2-LANE CLOSURE ON VIADUCT

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME E

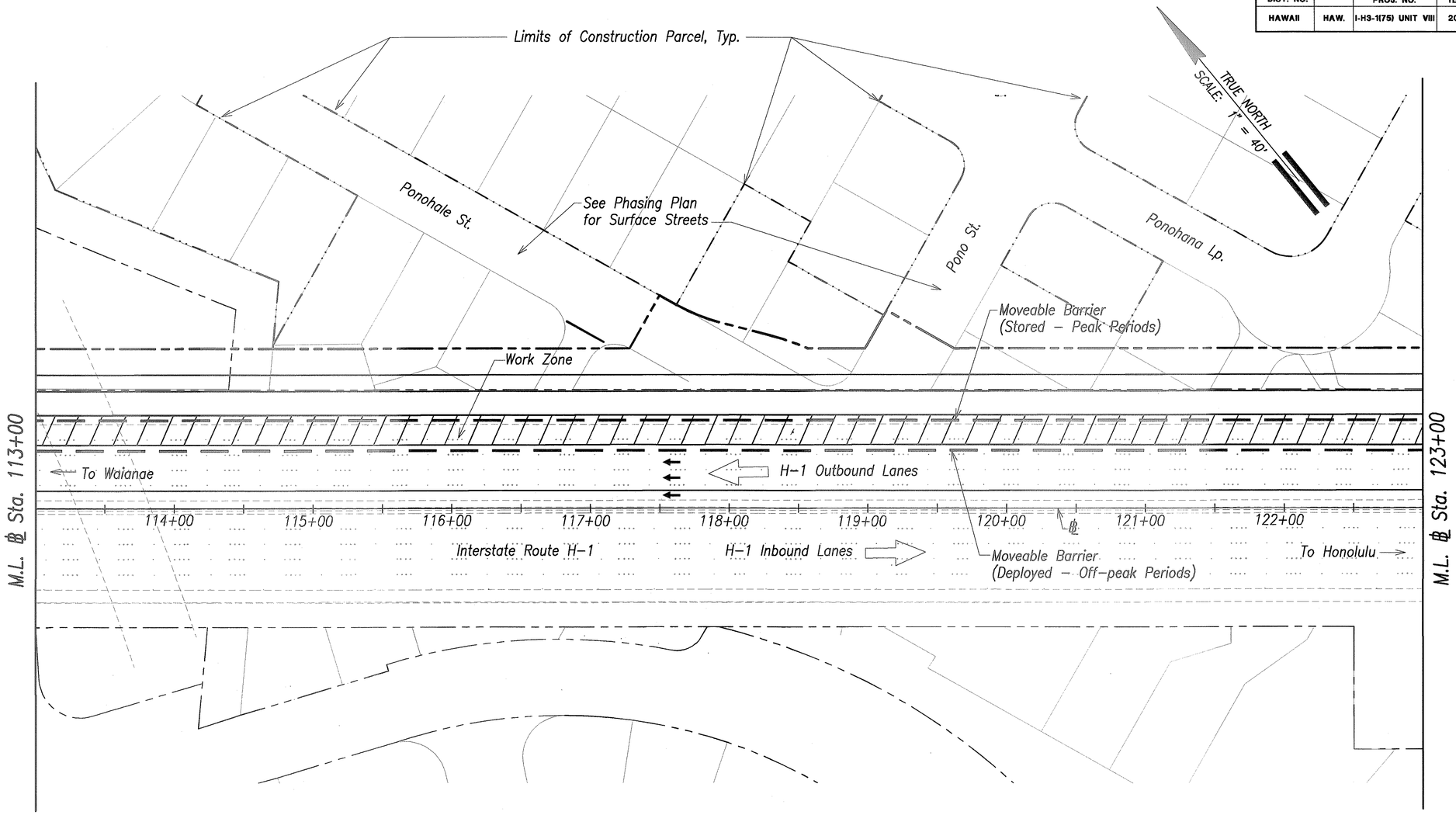
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.22 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	260	816



H-1 WESTBOUND – 2-LANE CLOSURE ON VIADUCT

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE
April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

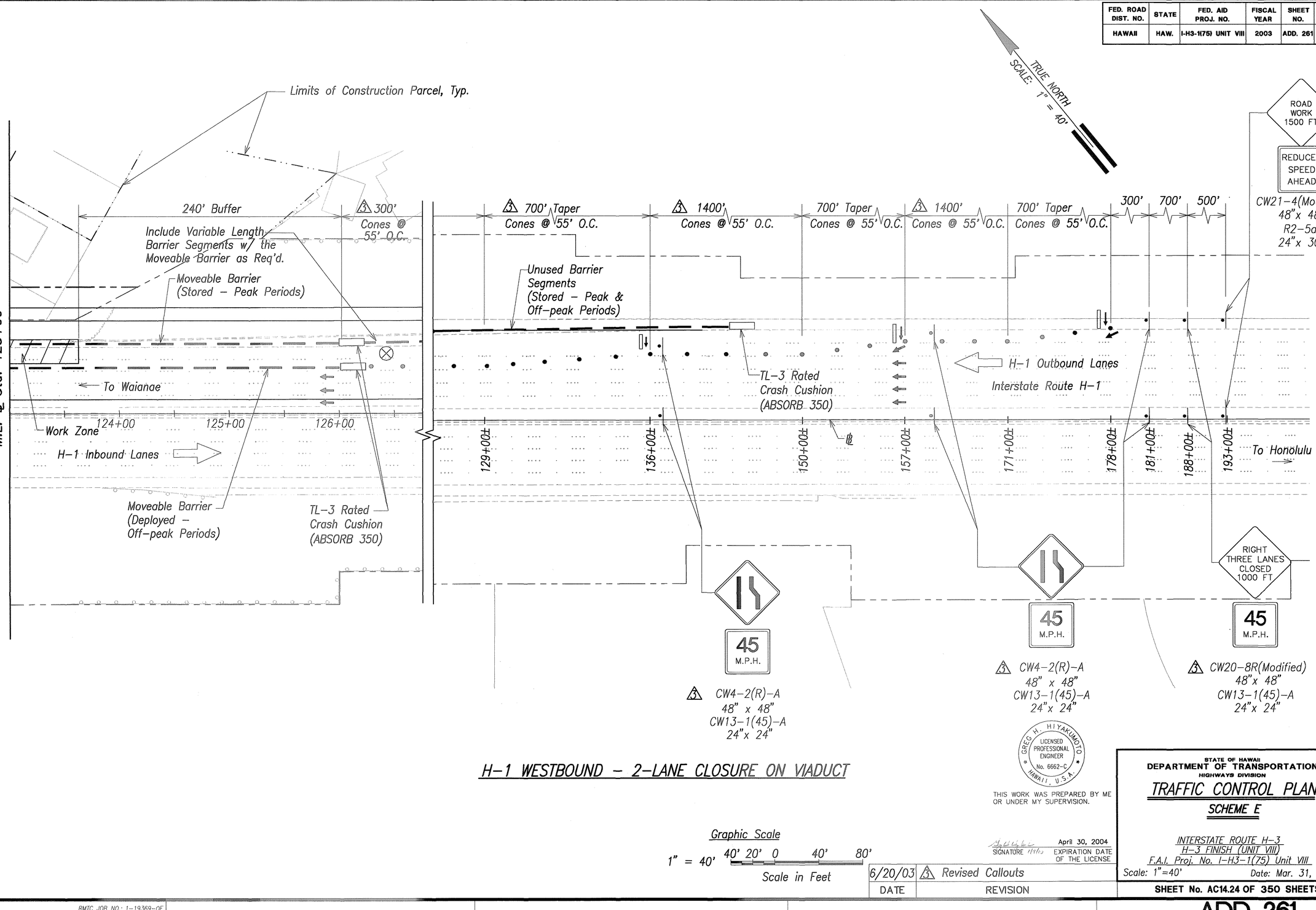
TRAFFIC CONTROL PLAN
SCHEME E

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.23 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 261	816



H–1 WESTBOUND – 2–LANE CLOSURE ON VIADUCT

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

DATE	REVISION
6/20/03	3 Revised Callouts

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662–C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME E

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I–H3–1(75) Unit VIII

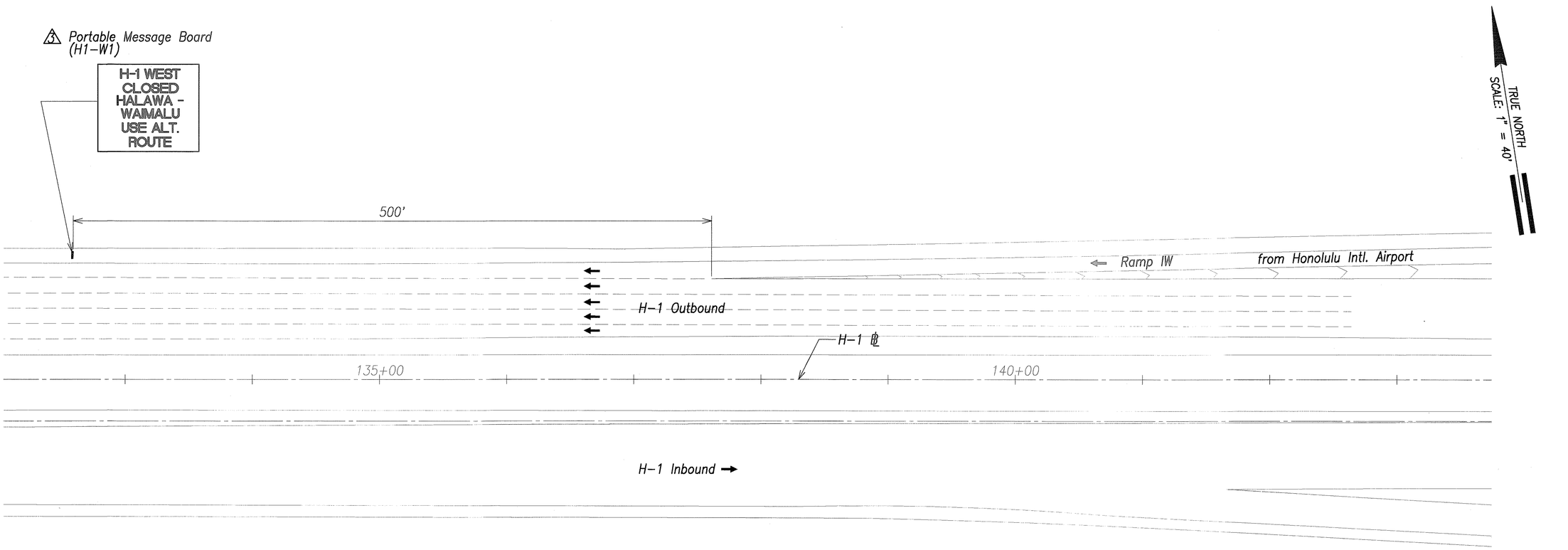
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.24 OF 350 SHEETS

RMTC JOB NO.: 1–19369–0E

ADD. 261

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 262	816



SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

H-1 WESTBOUND FULL CLOSURE LAYOUT AT AIRPORT INTERCHANGE

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

DATE	REVISION
6/20/03	3 Revised Callout

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME F

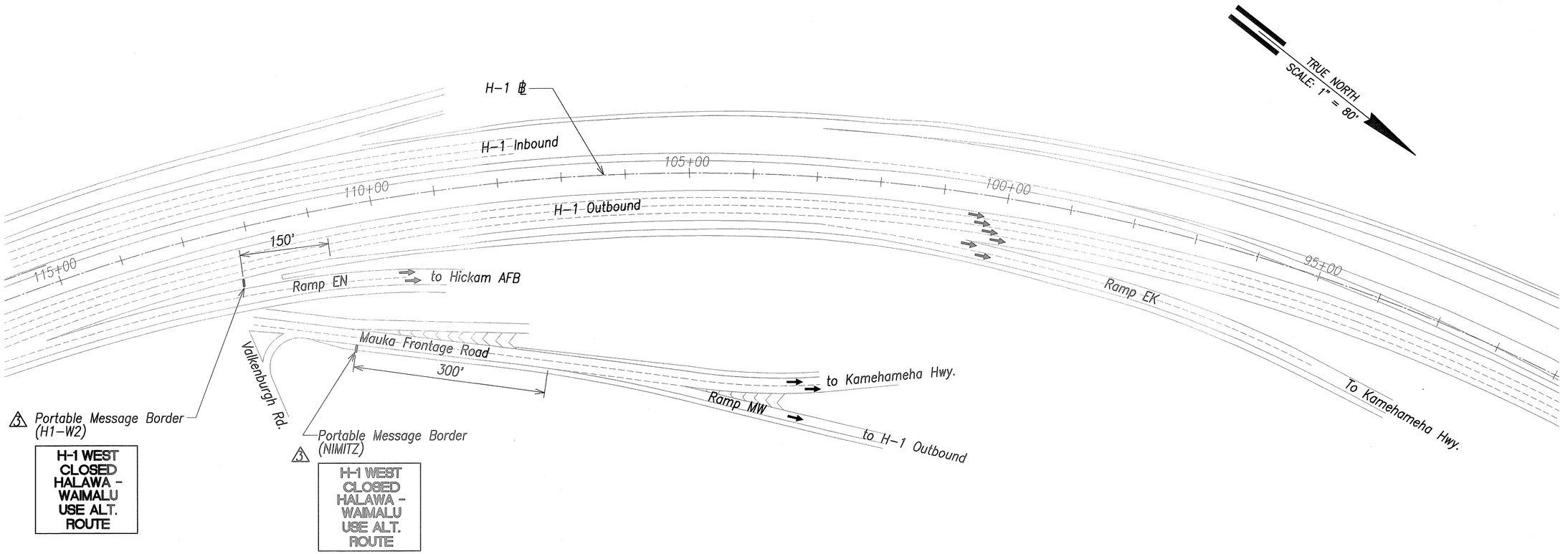
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.25 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 262

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 263	816



H-1 WESTBOUND FULL CLOSURE
LAYOUT AT PEARL HARBOR INTERCHANGE

Graphic Scale
1" = 80' 80' 40' 0 80' 160'
Scale in Feet

DATE	REVISION
6/20/03	3 Revised Callouts

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME F

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=80' Date: Mar. 31, 2003

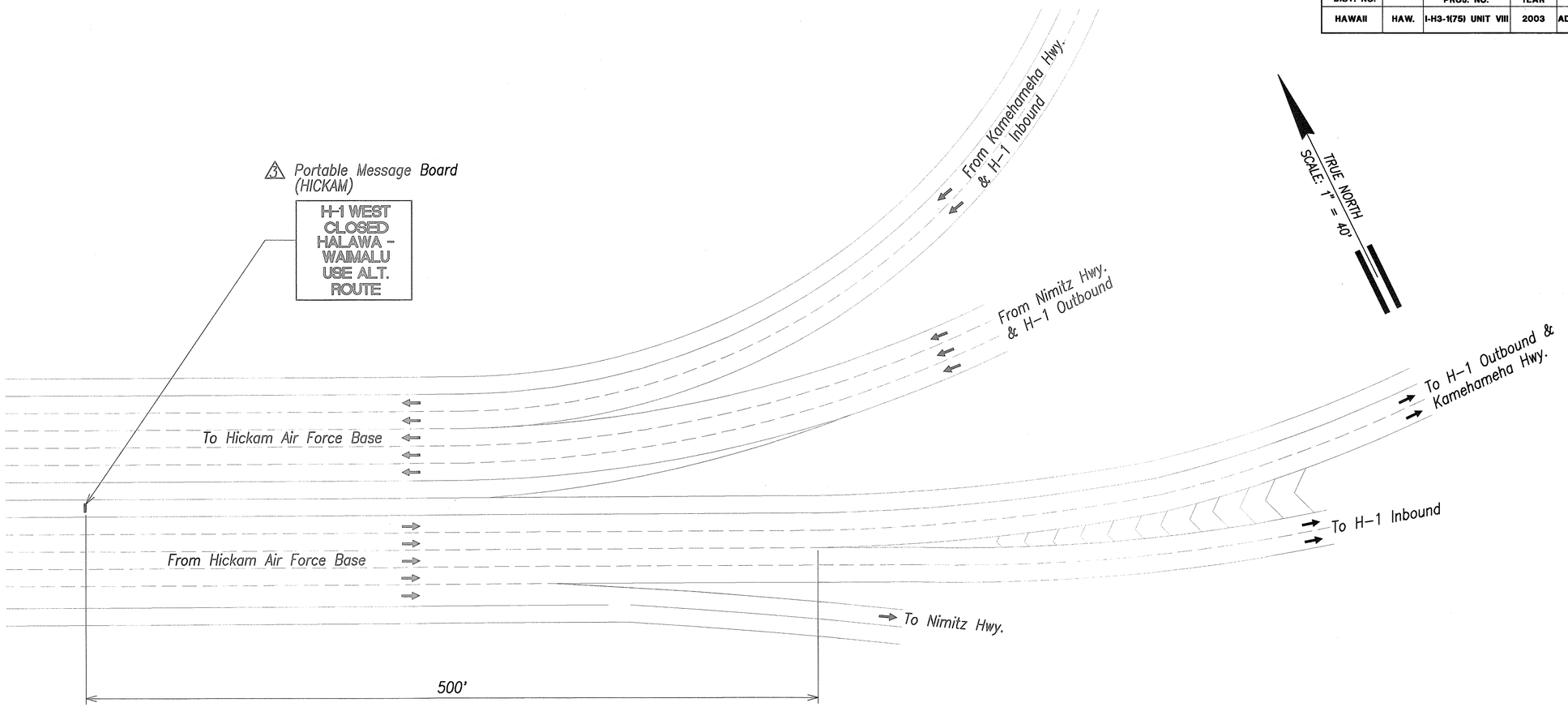
SHEET No. AC14.26 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 263

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 264	816



GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — EXPIRATION DATE OF THE LICENSE

H-1 WESTBOUND FULL CLOSURE
APPROACH TO PEARL HARBOR ON-RAMP

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

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

DATE	REVISION
6/20/03	3 Revised Callouts

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME F

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

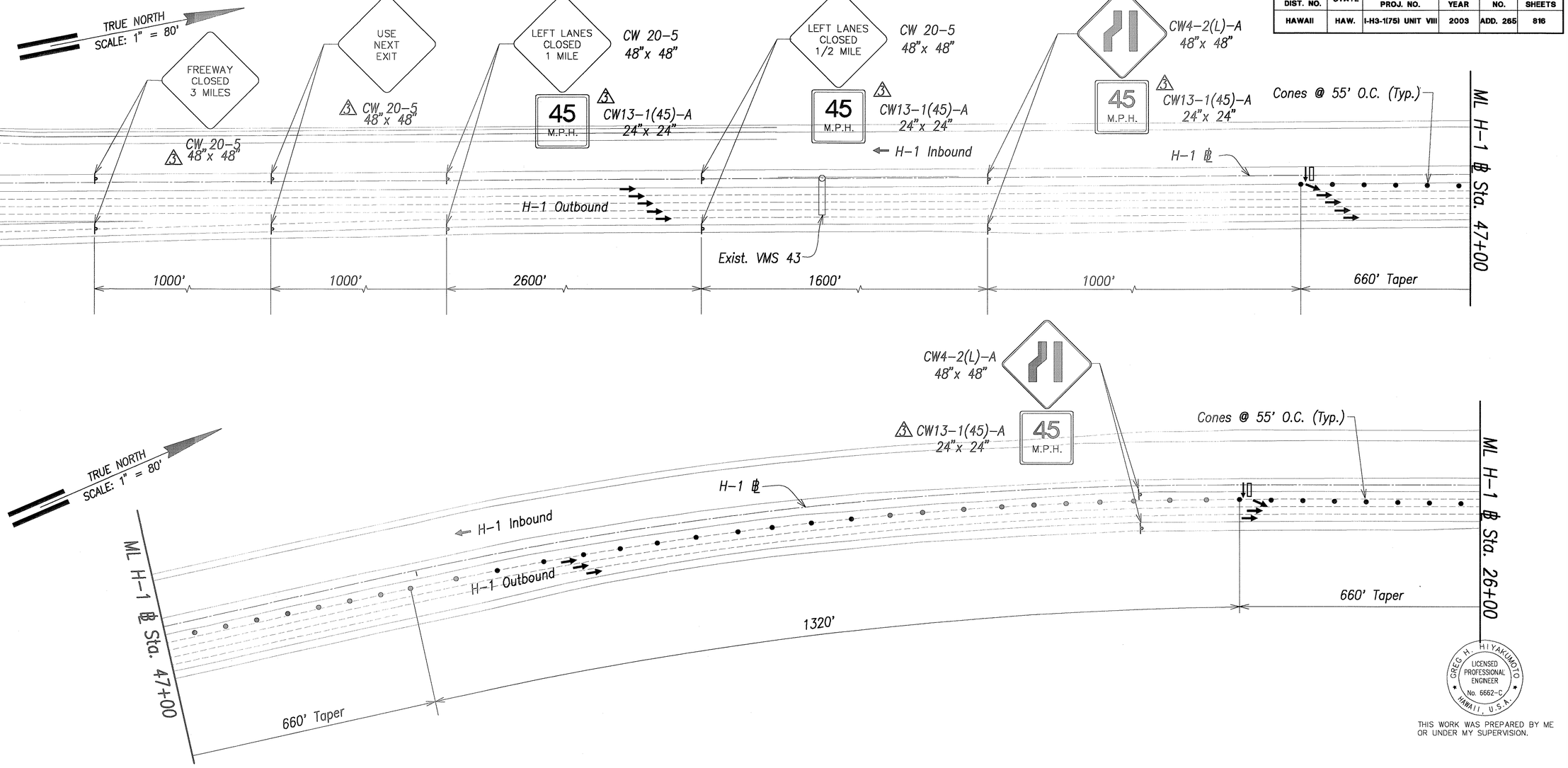
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC14.27 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 264

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 265	816



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April 30, 2004
SIGNATURE 7/9/03 EXPIRATION DATE OF THE LICENSE

H-1 WESTBOUND FULL CLOSURE
APPROACH TO HALAWA INTERCHANGE FROM H-1

LEGEND

- Flashing Arrow Sign
- Direction of Traffic
- Cones
- Construction Sign

Graphic Scale

1" = 80' 80' 40' 0 80' 160'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Callouts; Added Signs

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME F

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=80' Date: Mar. 31, 2003

SHEET No. AC14.28 OF 350 SHEETS

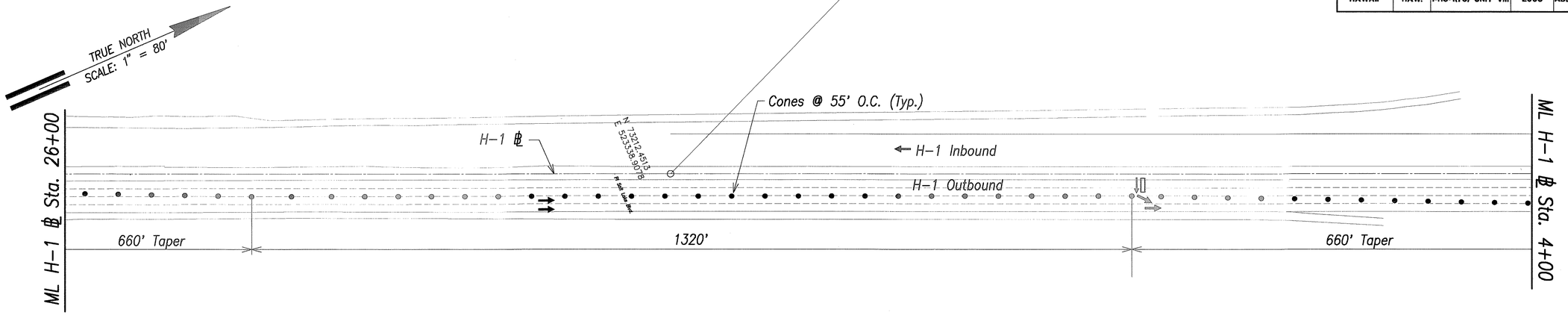
ADD. 265

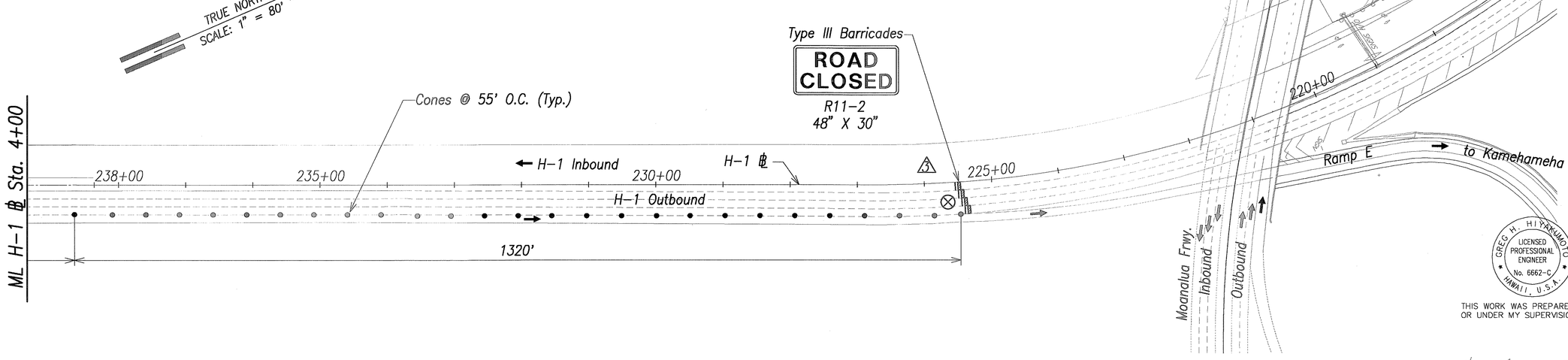
ORIGINAL PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 266	816





GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

LEGEND

- Flashing Arrow Sign
- Direction of Traffic
- Cones
- Construction Sign
- Police Officer w/ vehicle w/ flashing blue light

H-1 WESTBOUND FULL CLOSURE
APPROACH TO HALAWA INTERCHANGE FROM H-1

Graphic Scale

1" = 80' 80' 40' 0 80' 160'

Scale in Feet

DATE	REVISION
6/20/03	3 Added Police Officer

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME F

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=80' Date: Mar. 31, 2003

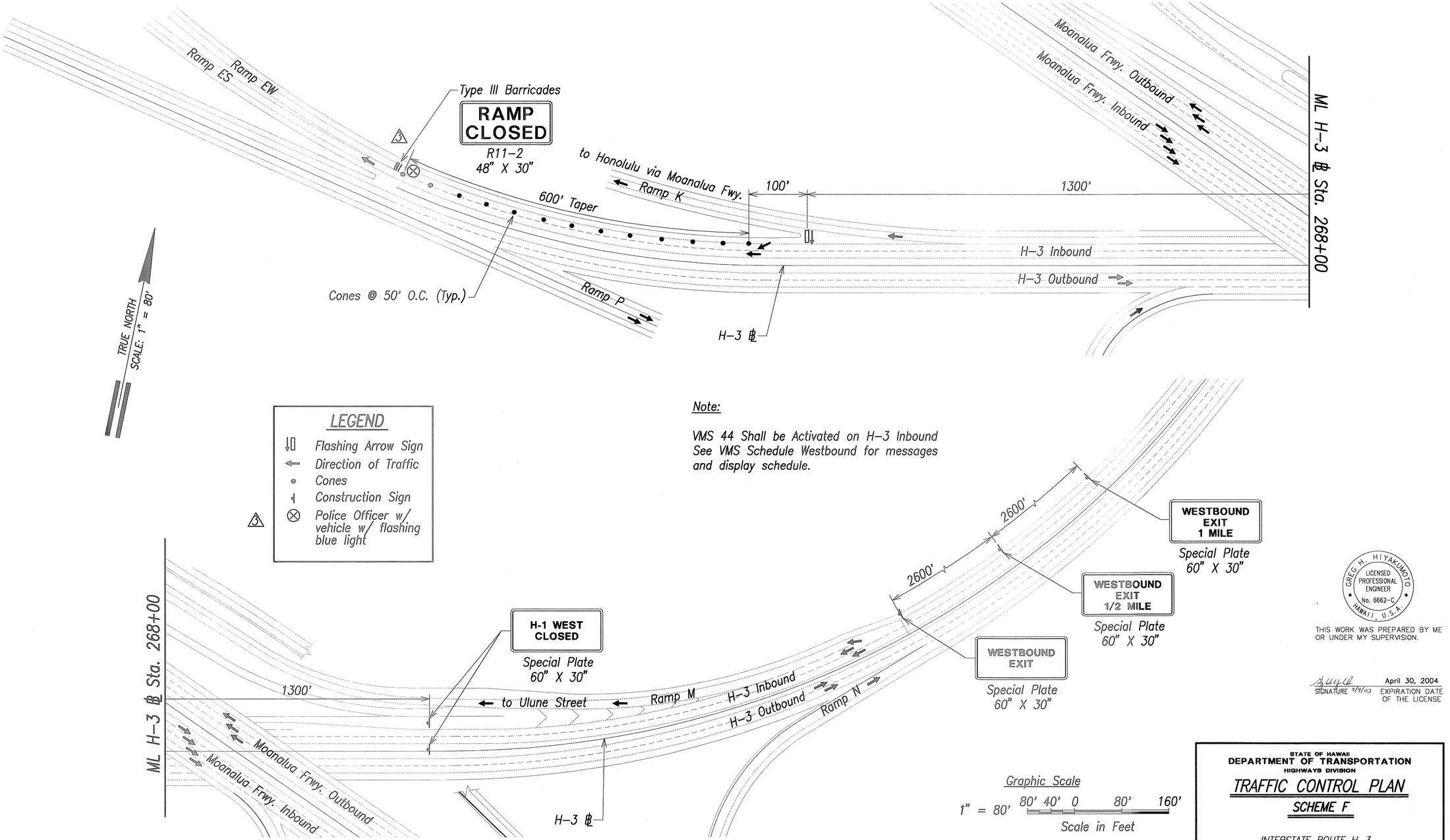
SHEET No. AC14.29 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 266

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 267	816



H-1 WESTBOUND FULL CLOSURE
APPROACH TO HALAWA INTERCHANGE FROM H-3

Graphic Scale
1" = 80' 80' 40' 0 80' 160'
Scale in Feet

DATE	REVISION
6/20/03	⚠3 Added Police Officer

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/31/03 April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME F

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=80' Date: Mar. 31, 2003

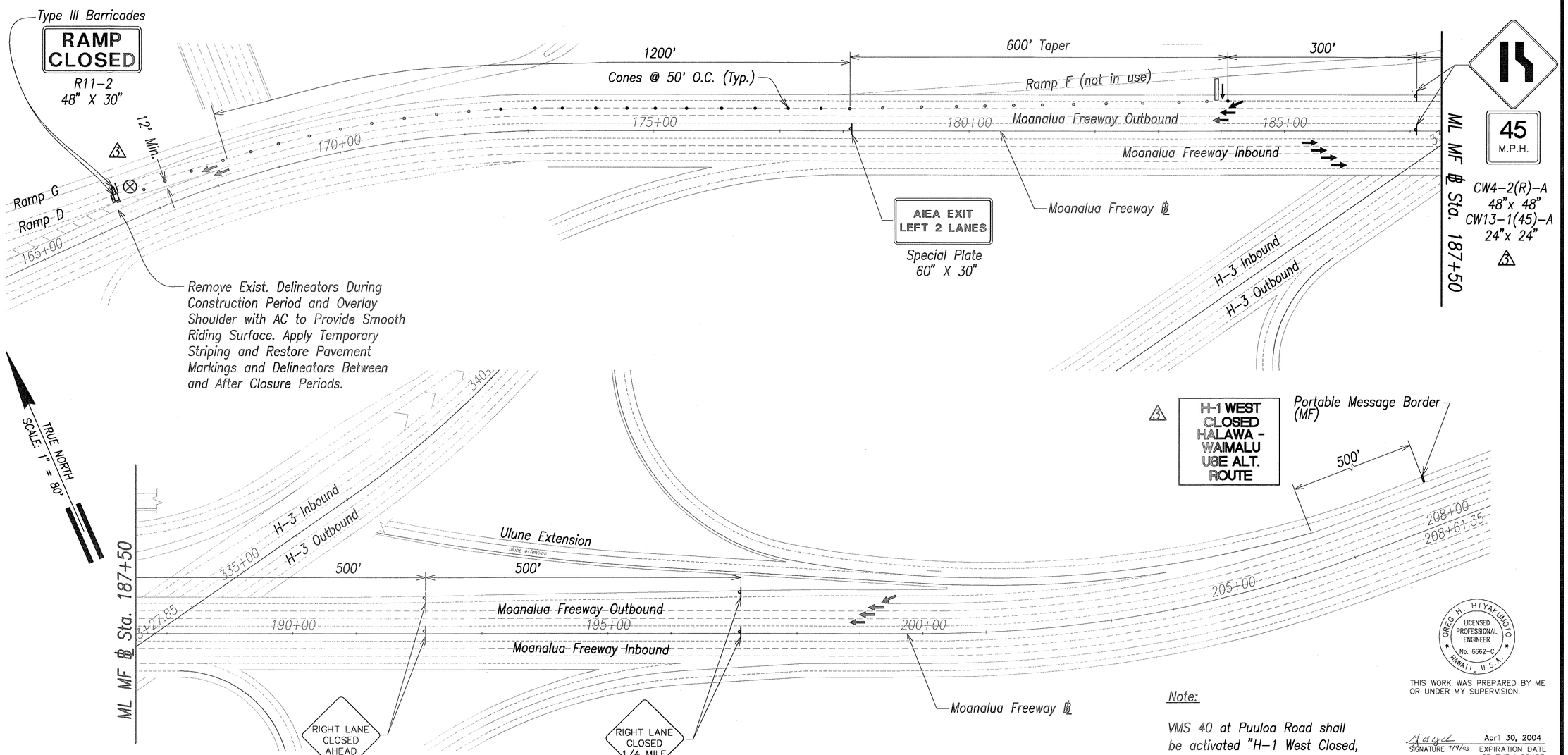
SHEET No. AC14.30 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 267

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 268	818



LEGEND

- Flashing Arrow Sign
- Direction of Traffic
- Cones
- Construction Sign
- Police Officer w/ vehicle w/ flashing blue light

H-1 WESTBOUND FULL CLOSURE APPROACH TO HALAWA INTERCHANGE FROM MOANALUA FREEWAY

Graphic Scale

1" = 80' 80' 40' 0 80' 160'

Scale in Feet

Note:

VMS 40 at Puuloa Road shall be activated "H-1 West Closed, Use Halawa or Aiea Exits."

DATE	REVISION
6/20/03	Revised Callouts; Added Police Officer

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE 7/9/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME F

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=80' Date: Mar. 31, 2003

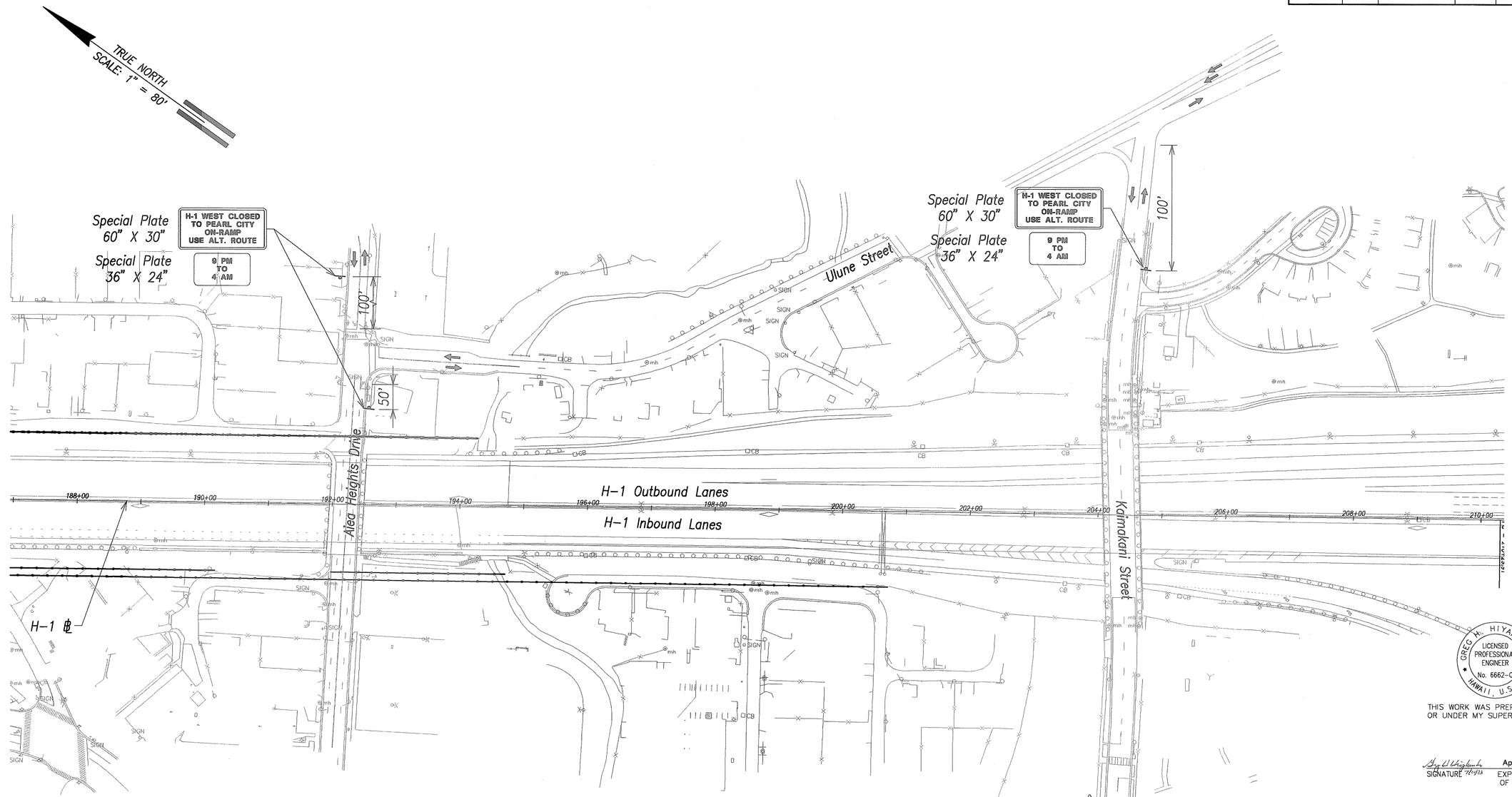
SHEET No. AC14.31 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 268

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 269	816



H-1 WESTBOUND FULL CLOSURE APPROACH TO HALAWA ON-RAMP

Graphic Scale

1" = 80' 80' 40' 0 80' 160'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

APPROVED:

Chief, Traffic Review Branch, DPP (For Work Within City R/W Only) — Date

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

DATE	REVISION
10/16/03	5 OBTAINED CITY APPROVAL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SCHEME F

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

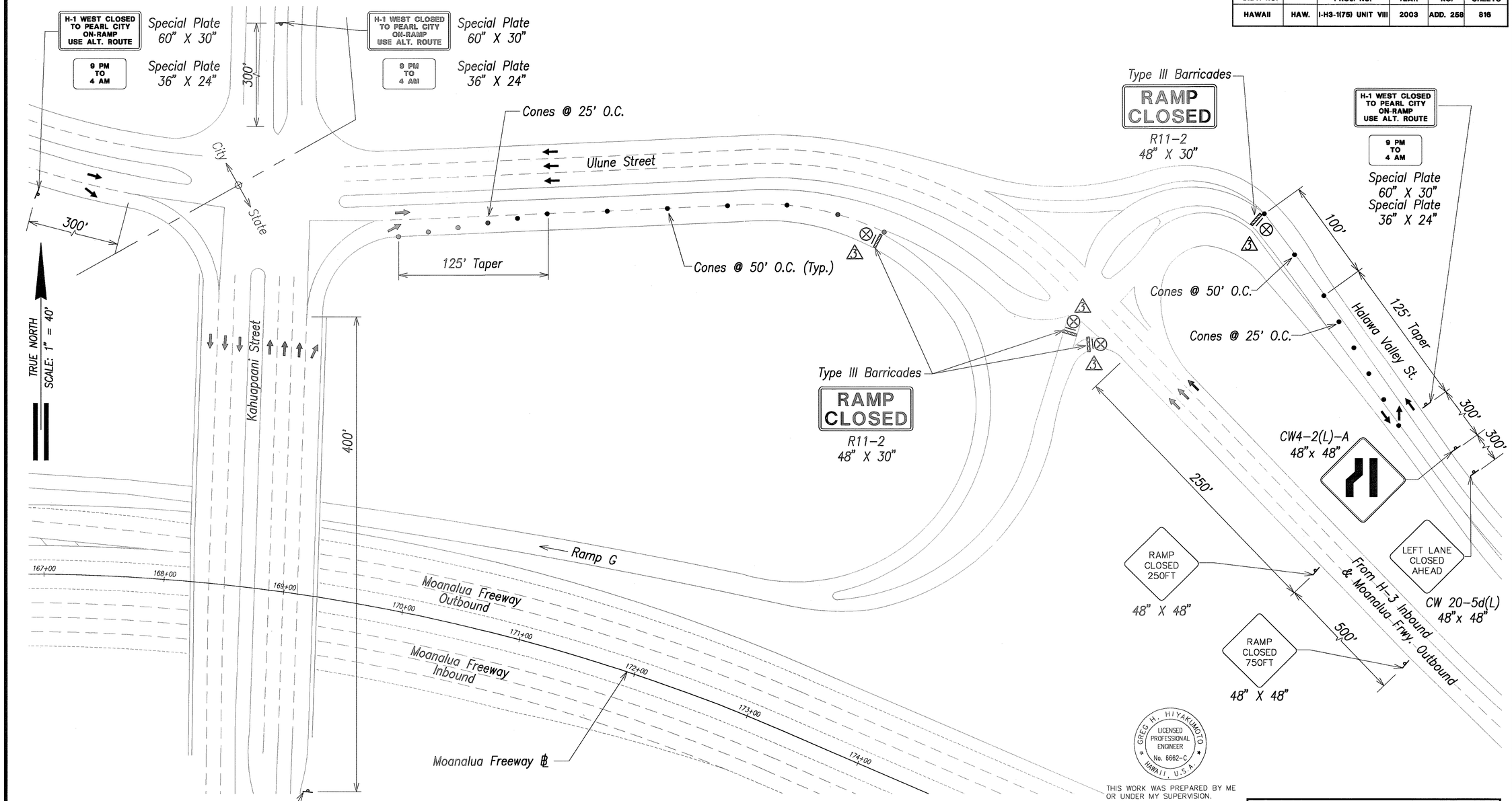
Scale: 1"=80' Date: Mar. 31, 2003

SHEET No. AC14.32 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 269

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 258	816



H-1 WESTBOUND FULL CLOSURE
HALAWA ON-RAMP

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

APPROVED:

Chief, Traffic Review Branch, DPP
(For Work Within City R/W Only)

Date

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME F

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

DATE	REVISION
6/20/03	3 Added Police Officer

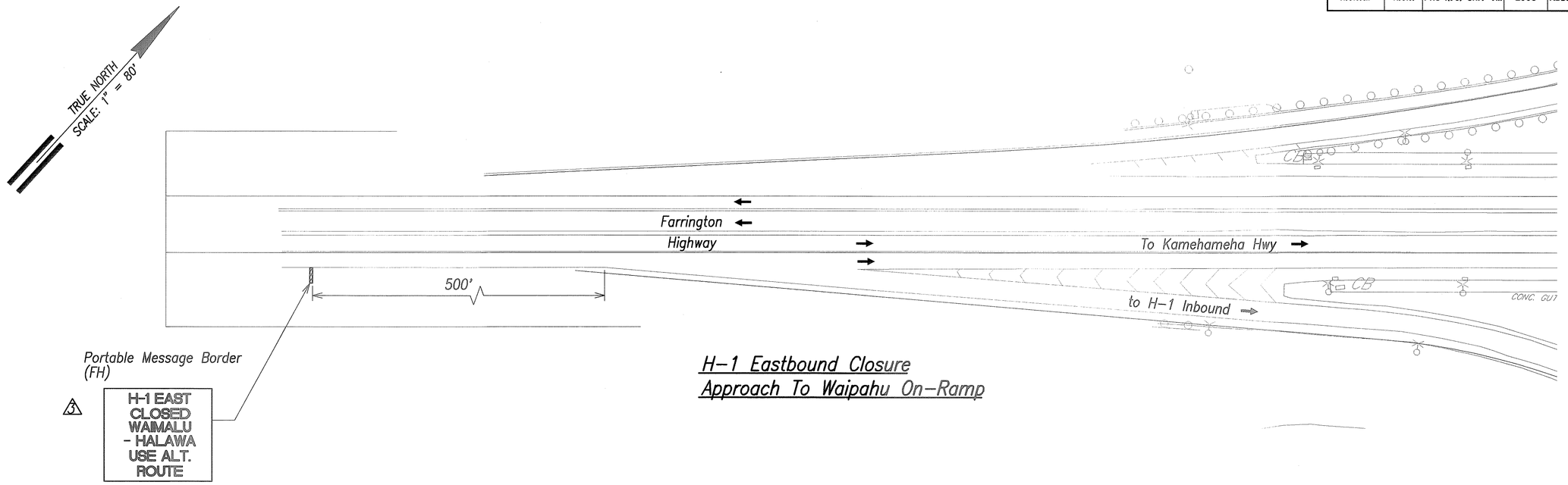
SHEET No. AC14.33 OF 350 SHEETS

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

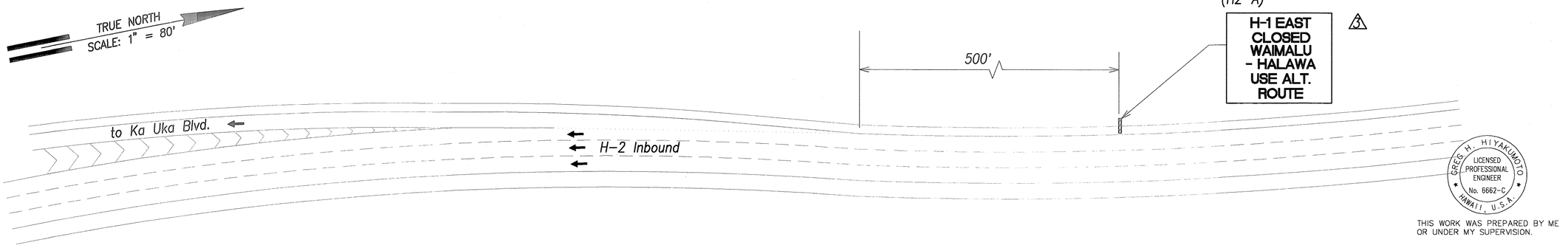
RMTC JOB NO.: 1-19369-OE

ADD. 270

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 271	816



H-1 Eastbound Closure
Approach To Waipahu On-Ramp



GREGG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/7/03 April 30, 2004
EXPIRATION DATE OF THE LICENSE

H-1 EASTBOUND FULL CLOSURE
APPROACH TO WAIAWA INTERCHANGE FROM H-2

Graphic Scale
1" = 80' 80' 40' 0 80' 160'
Scale in Feet

DATE	REVISION
6/20/03	3 Revised Callouts

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME G

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=80' Date: Mar. 31, 2003

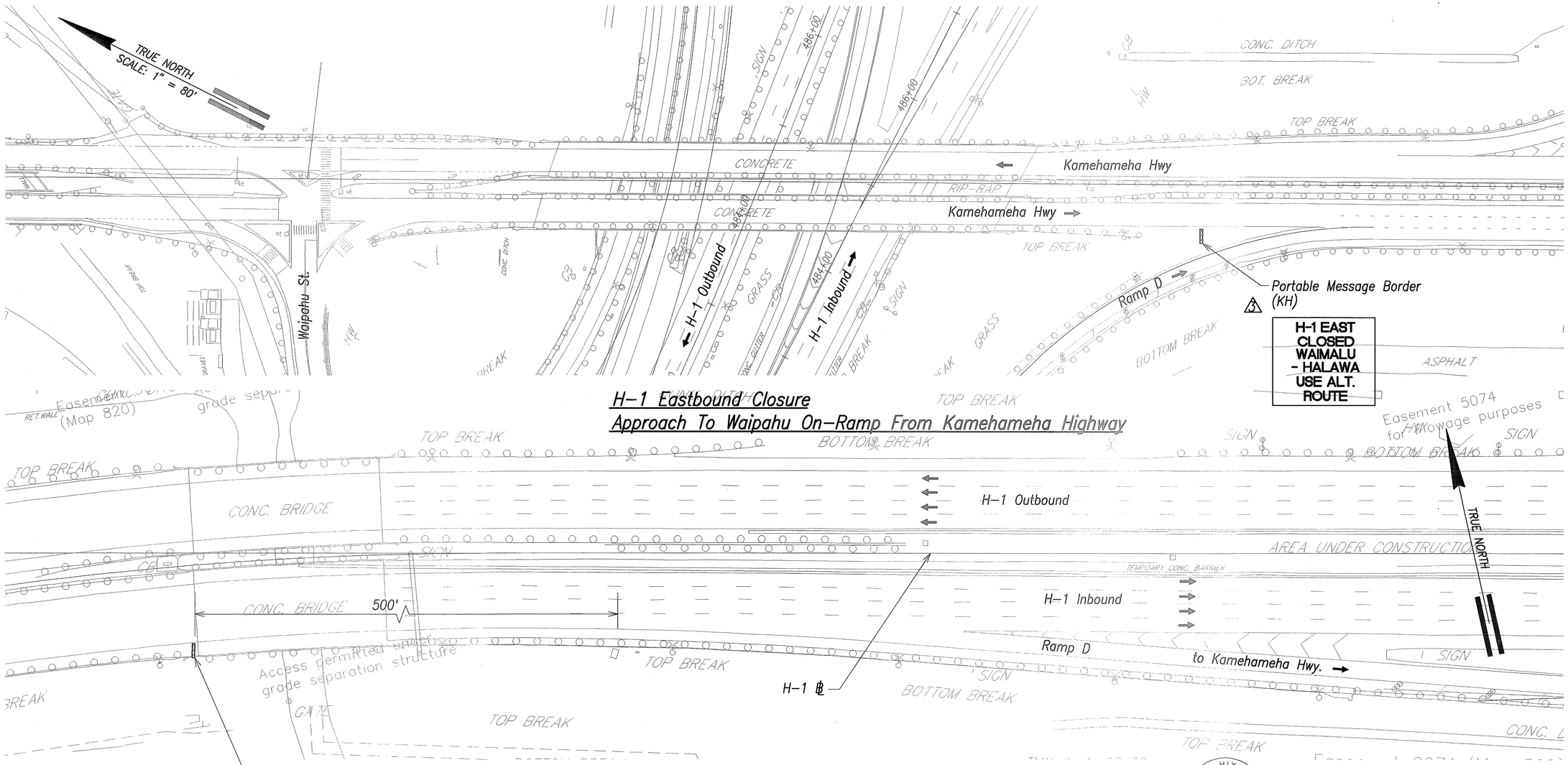
SHEET No. AC14.34 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 271

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 272	816



H-1 Eastbound Closure
Approach To Waipahu On-Ramp From Kamehameha Highway

H-1 EASTBOUND FULL CLOSURE
APPROACH TO WAIAWA INTERCHANGE FROM H-1

Graphic Scale

1" = 80' 80' 40' 0 80' 160'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE _____ April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Revised Callouts

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME G

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

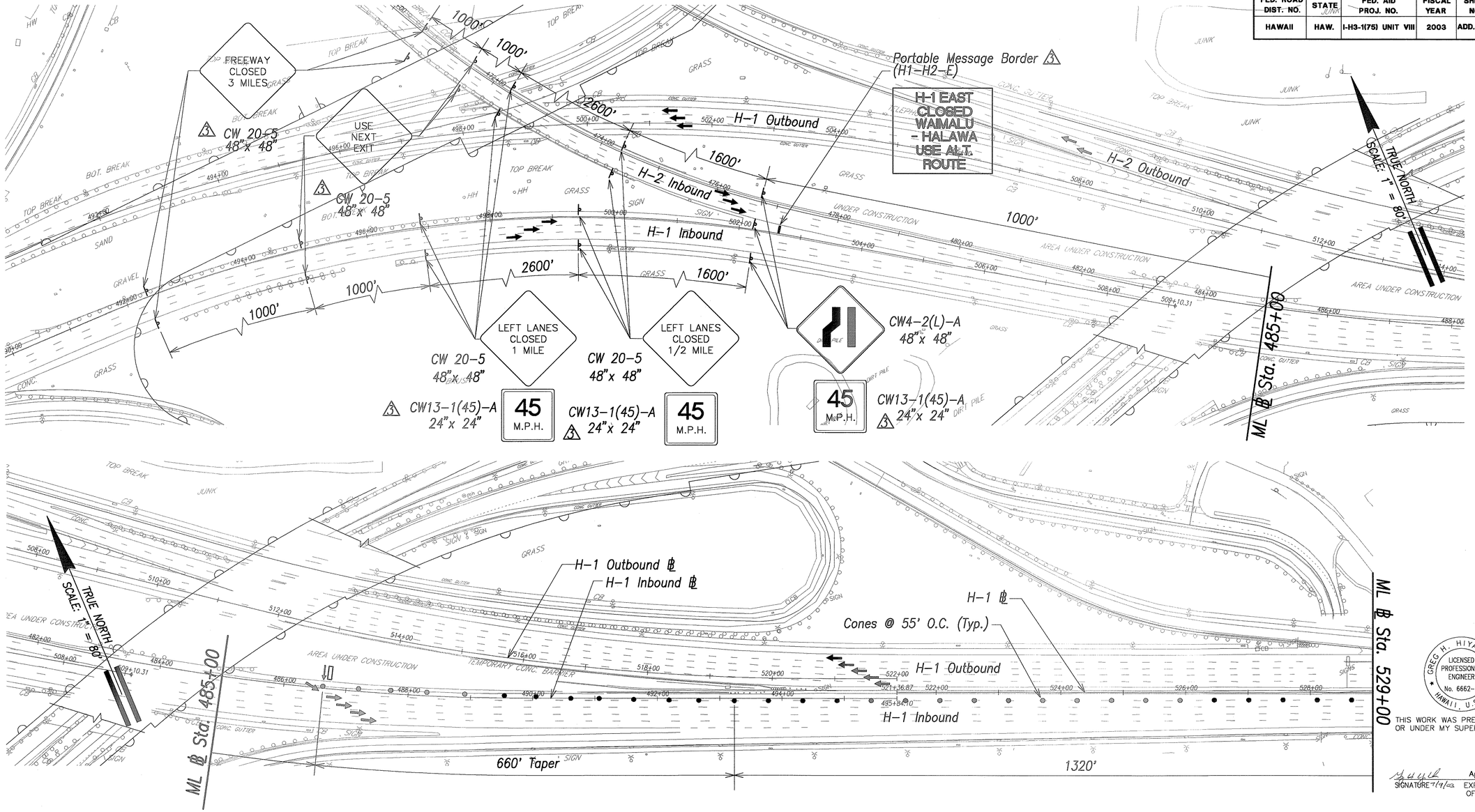
Scale: 1"=80' Date: Mar. 31, 2003

SHEET No. AC14.35 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 272

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 273	816



H-1 EASTBOUND FULL CLOSURE
WAIAWA INTERCHANGE

LEGEND

- Flashing Arrow Sign
- Direction of Traffic
- Cone
- Construction Sign

Graphic Scale

1" = 80' 80' 40' 0 80' 160'

Scale in Feet

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

DATE	REVISION
6/20/03	3 Revised Callouts; Added Signs

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME G

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

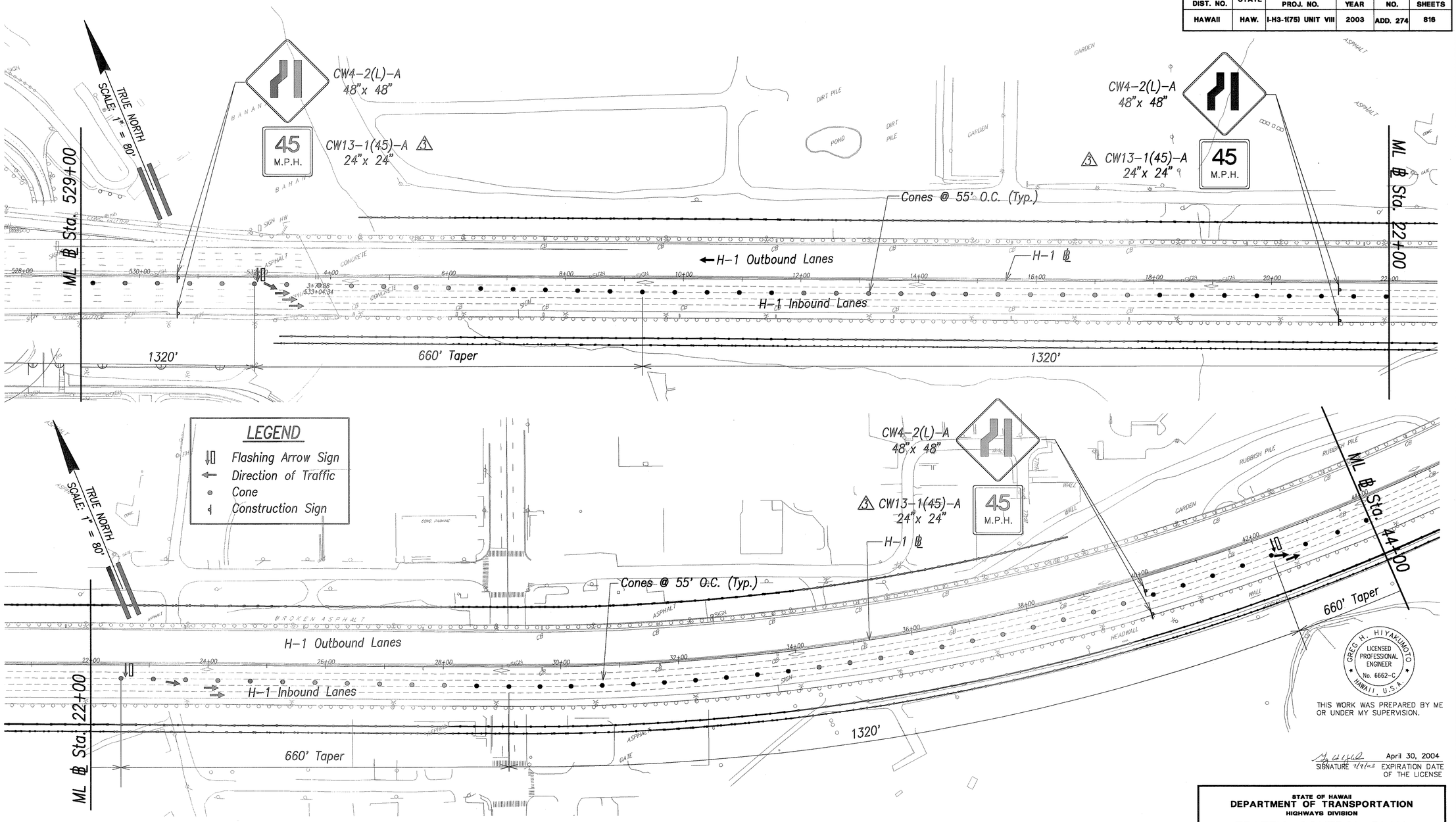
Scale: 1"=80' Date: Mar. 31, 2003

SHEET No. AC14.36 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 273

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 274	816



H-1 EASTBOUND FULL CLOSURE
APPROACH TO WAIAU INTERCHANGE

Graphic Scale

1" = 80' 80' 40' 0 80' 160'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Callouts

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE _____ April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME G

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

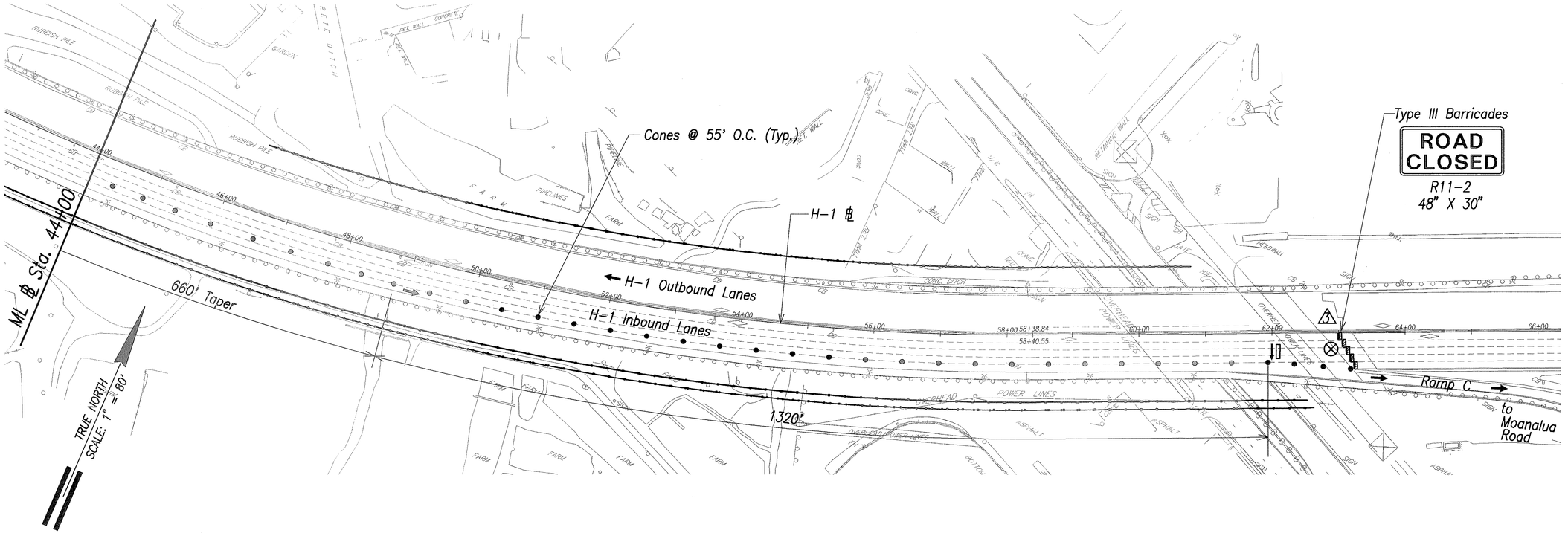
Scale: 1"=80' Date: Mar. 31, 2003

SHEET No. AC14.37 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 274

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 275	816



H-1 EASTBOUND FULL CLOSURE
APPROACH TO WAIAU INTERCHANGE

LEGEND

- Flashing Arrow Sign
- Direction of Traffic
- Cones
- Construction Sign
- (3) Police Officer w/ vehicle w/ flashing blue light

Graphic Scale

1" = 80' 80' 40' 0 80' 160'

Scale in Feet

DATE	REVISION
6/20/03	(3) Added Police Officer

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/7/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME G

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=80' Date: Mar. 31, 2003

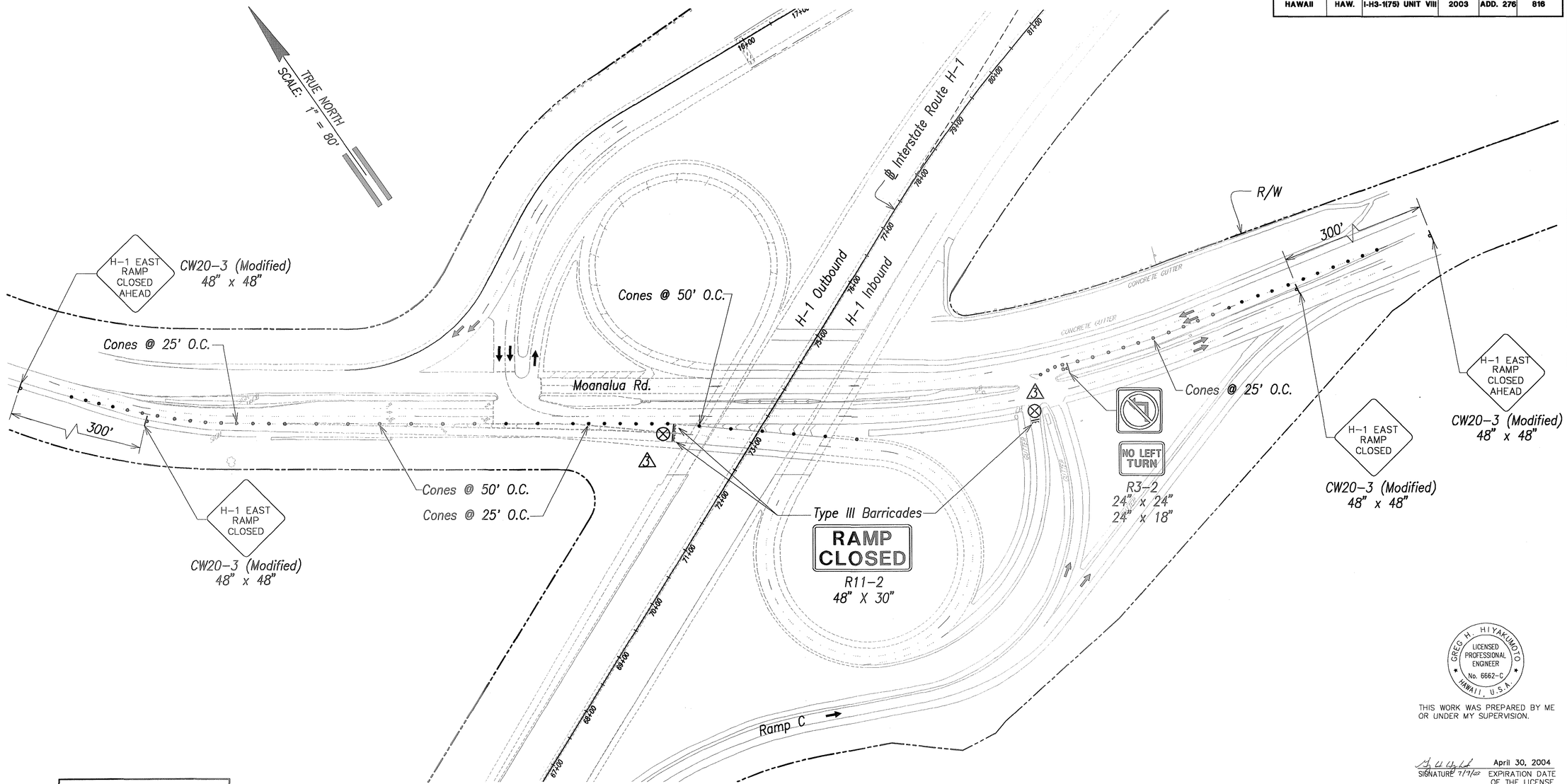
SHEET No. AC14.38 OF 350 SHEETS

ADD. 275

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 276	816



LEGEND

- Flashing Arrow Sign
- Direction of Traffic
- Cones
- Construction Sign
- ⚠3 Police Officer w/ vehicle w/ flashing blue light

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

H-1 EASTBOUND FULL CLOSURE
PEARL CITY ON-RAMP

Graphic Scale

1" = 80' 80' 40' 0 80' 160'

Scale in Feet

DATE	REVISION
6/20/03	⚠3 Added Police Officer

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/7/03 April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SCHEME G

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

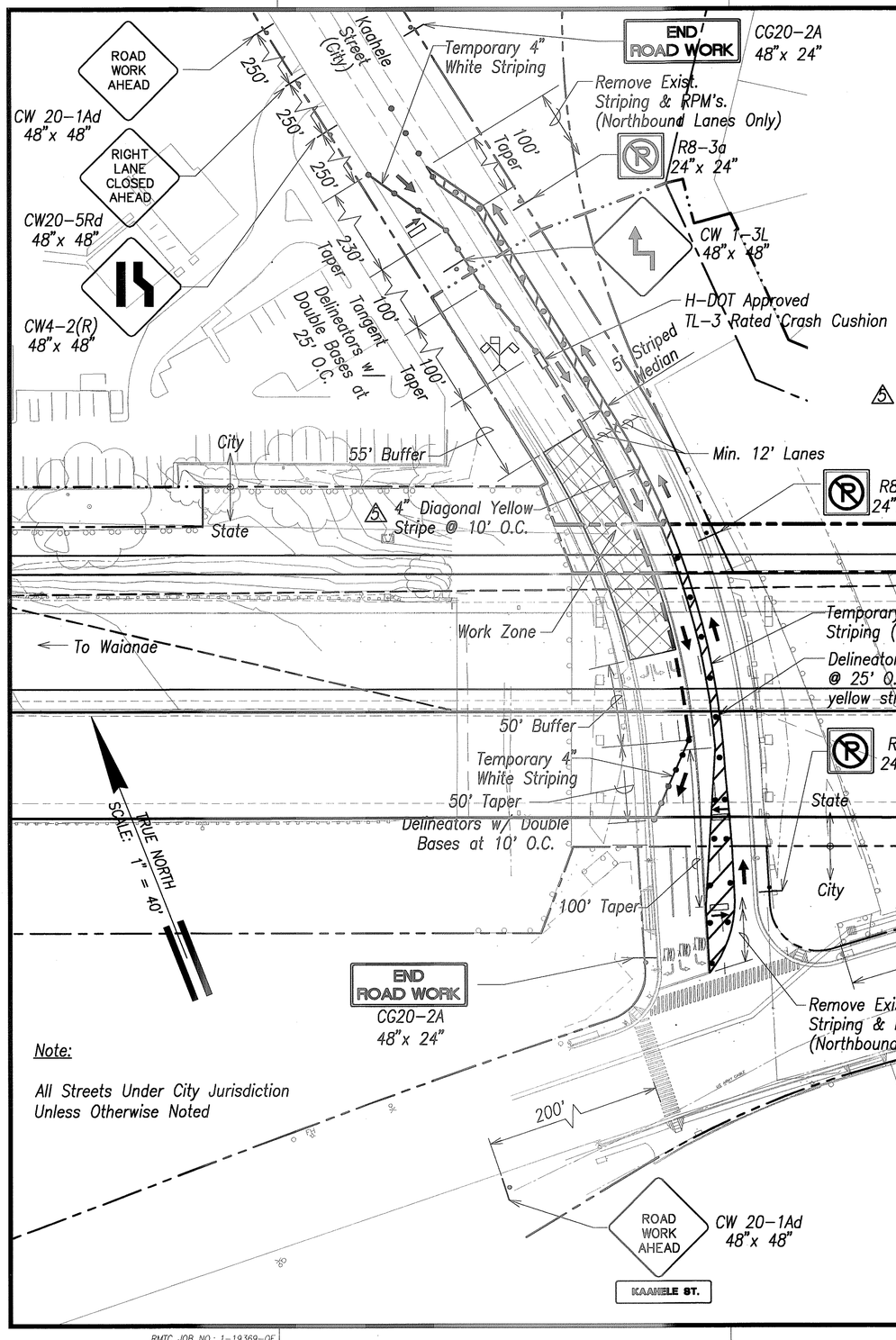
Scale: 1"=80' Date: Mar. 31, 2003

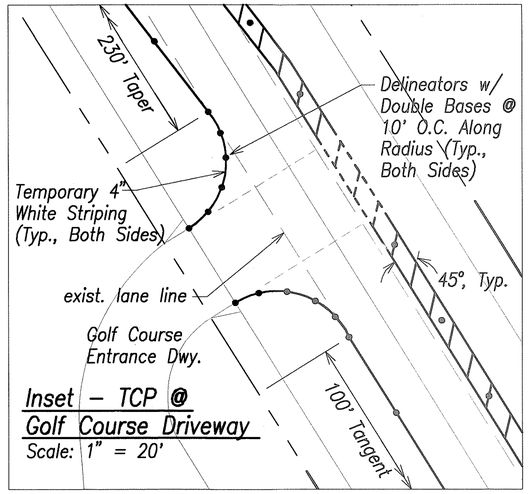
SHEET No. AC14.39 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 276

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 277	816





Inset – TCP @ Golf Course Driveway
Scale: 1" = 20'

Kaahele Street West Lanes Closure Notes:

1. *Traffic control devices to remain during night hours shall be fitted with steady burn lights & reflectors in accordance with the current MUTCD.*
2. *Driveway access to golf course shall be maintained at all times.*
3. *ADA compliant pedestrian access shall be maintained at all times.*
4. *Contractor shall restore striping to existing condition after completion of work.*

Legend

- Cones or Delineators at Spacing Shown on Plan
- Portable Barrier
- Sign
- Work Area
- High Level Warning Device
- Direction of Traffic Flow
- Flashing Arrow Panel
- Police Officer

Note:

All Streets Under City Jurisdiction Unless Otherwise Noted

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

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

DATE	REVISION
10/16/03	5 Added Note & Inset
6/20/03	3 Revised Entire TCP Layout

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GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

APPROVED:

Chief, Traffic Review Branch, DPP (for work within City R/W only) Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SURFACE STREETS – SCHEME SA

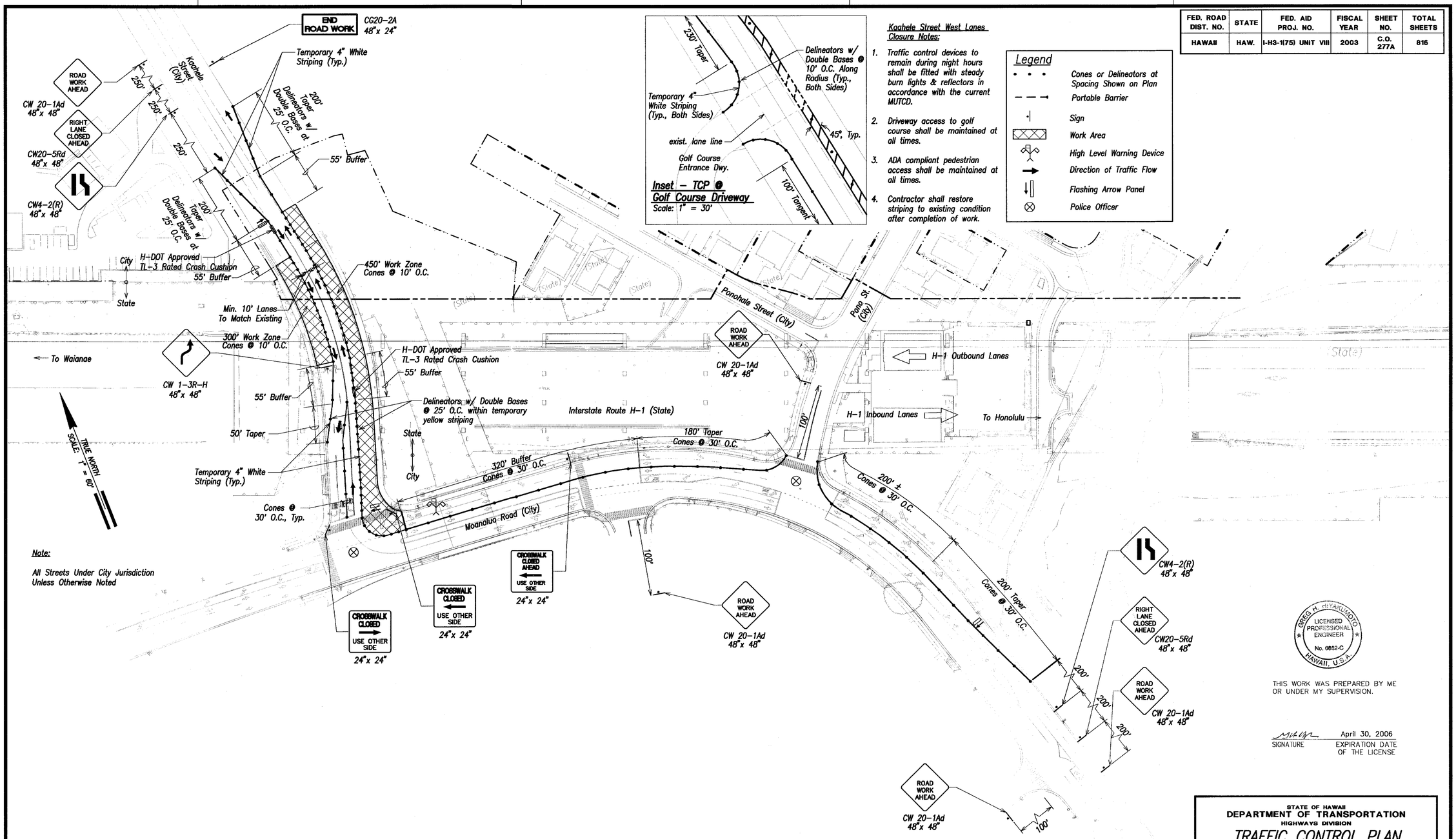
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.1 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 277

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	C.O. 277A	816



Inset – TCP @ Golf Course Driveway
Scale: 1" = 30'

Kaahele Street West Lanes Closure Notes:

1. Traffic control devices to remain during night hours shall be fitted with steady burn lights & reflectors in accordance with the current MUTCD.
2. Driveway access to golf course shall be maintained at all times.
3. ADA compliant pedestrian access shall be maintained at all times.
4. Contractor shall restore striping to existing condition after completion of work.

Legend

- Cones or Delineators at Spacing Shown on Plan
- Portable Barrier
- Sign
- Work Area
- High Level Warning Device
- Direction of Traffic Flow
- Flashing Arrow Panel
- Police Officer

Note:

All Streets Under City Jurisdiction Unless Otherwise Noted

APPROVED:

Chief, Traffic Review Branch, DPP (for work within City R/W only) — Date

Graphic Scale
1" = 60' 60' 30' 0 60' 120'
Scale in Feet

DATE	REVISION
9/30/04	Added Sheet

GREG M. MIYAMOTO LICENSED PROFESSIONAL ENGINEER No. 9852-C HAWAII, U.S.A.

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SIGNATURE — April 30, 2006 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
KAAHELE ST. / MOANALUA RD.
PHASE 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=60' Date: Mar. 31, 2003

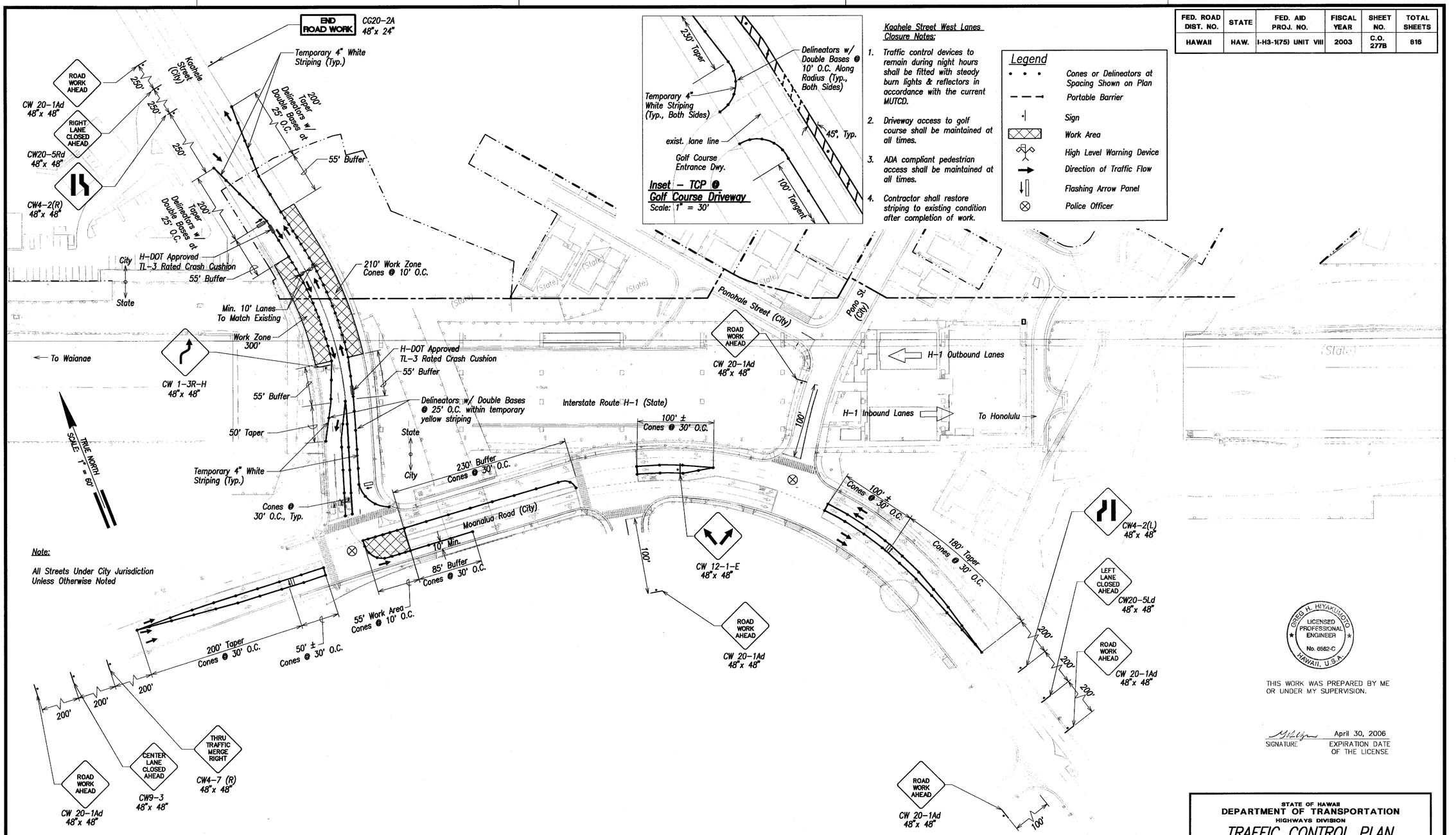
SHEET No. AC15.1A OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

"AS-BUILT" C.O. 277S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	C.O. 277B	616



Kaahele Street West Lanes Closure Notes:

1. *Traffic control devices to remain during night hours shall be fitted with steady burn lights & reflectors in accordance with the current MUTCD.*
2. *Driveway access to golf course shall be maintained at all times.*
3. *ADA compliant pedestrian access shall be maintained at all times.*
4. *Contractor shall restore striping to existing condition after completion of work.*

Legend

- Cones or Delineators at Spacing Shown on Plan
- Portable Barrier
- Sign
- Work Area
- High Level Warning Device
- Direction of Traffic Flow
- Flashing Arrow Panel
- Police Officer

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 8662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2006 EXPIRATION DATE OF THE LICENSE

APPROVED:

Chief, Traffic Review Branch, DPP (for work within City R/W only) — Date

Graphic Scale

1" = 60' 60' 30' 0 60' 120'

Scale in Feet

DATE	REVISION
9/30/04	Added Sheet

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
KAAHELE ST. / MOANALUA RD.
PHASE 2

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

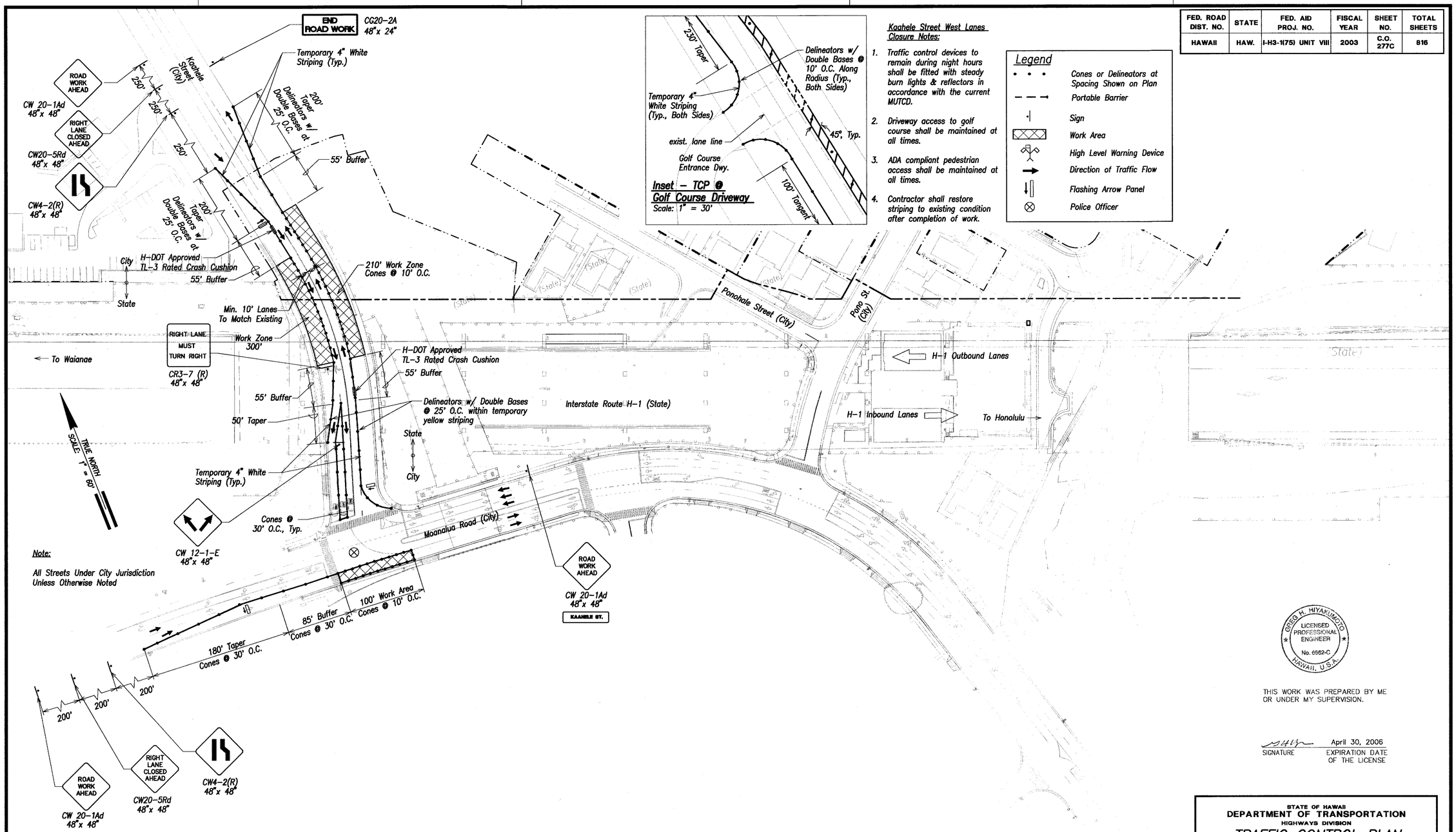
Scale: 1"=60' Date: Mar. 31, 2003

SHEET No. AC15.1B OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

"AS-BUILT" C.O. 277S-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	C.O. 277C	816



Note:

All Streets Under City Jurisdiction Unless Otherwise Noted

Inset – TCP @ Golf Course Driveway
Scale: 1" = 30'

Kaahele Street West Lanes Closure Notes:

1. Traffic control devices to remain during night hours shall be fitted with steady burn lights & reflectors in accordance with the current MUTCD.
2. Driveway access to golf course shall be maintained at all times.
3. ADA compliant pedestrian access shall be maintained at all times.
4. Contractor shall restore striping to existing condition after completion of work.

Legend

- Cones or Delineators at Spacing Shown on Plan
- Portable Barrier
- Sign
- Work Area
- High Level Warning Device
- Direction of Traffic Flow
- Flashing Arrow Panel
- Police Officer

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

APPROVED:

Chief, Traffic Review Branch, DPP (for work within City R/W only) — Date

Graphic Scale
1" = 60' 60' 30' 0 60' 120'
Scale in Feet

DATE	REVISION
9/30/04	Added Sheet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6562-C HAWAII, U.S.A.

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SIGNATURE — April 30, 2006 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
KAAHELE ST. / MOANALUA RD.
PHASE 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

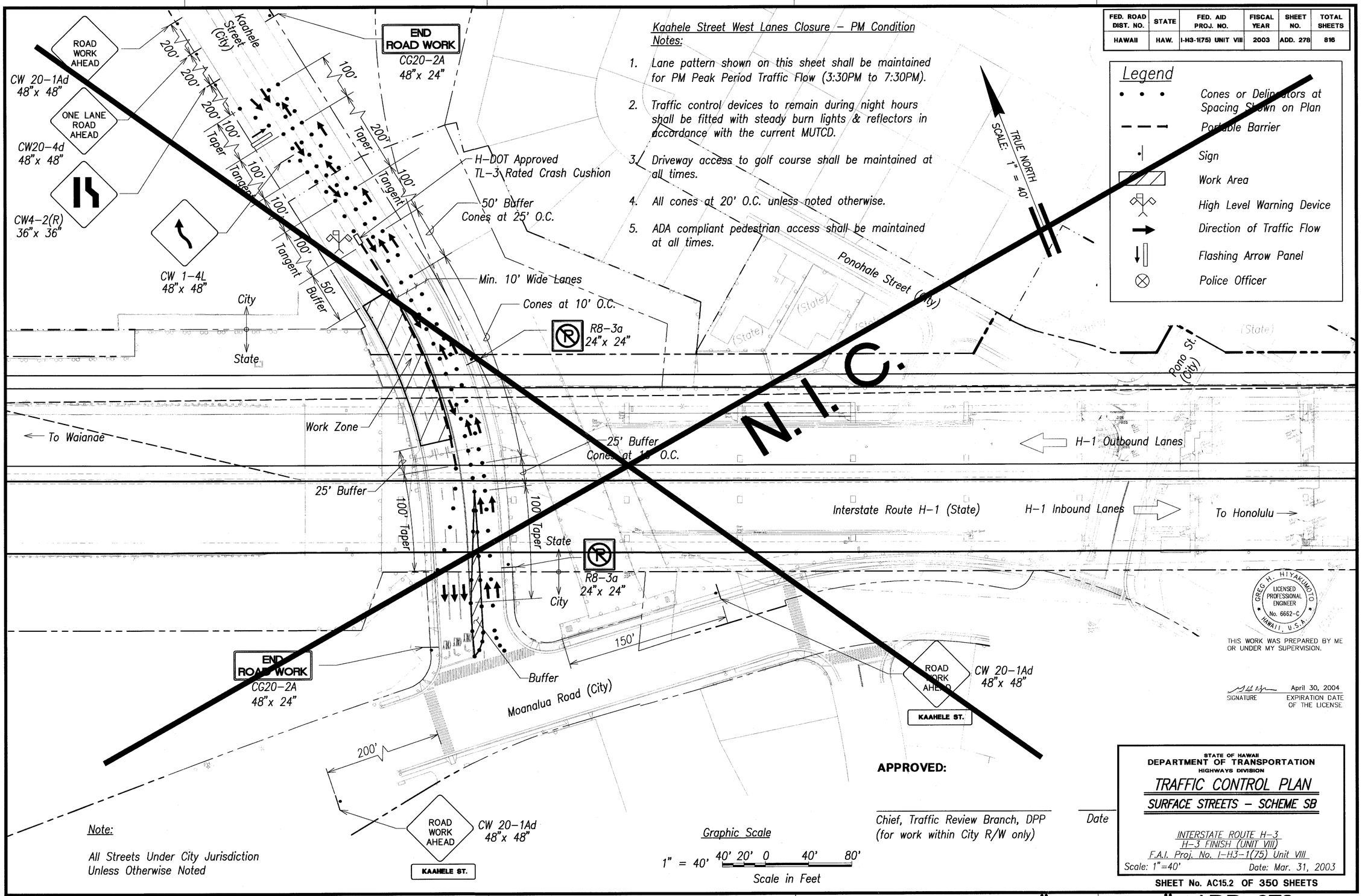
Scale: 1"=60' Date: Mar. 31, 2003

SHEET No. AC15.1C OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

"AS-BUILT" C.O. 277S-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 278	816



Kaahele Street West Lanes Closure – PM Condition

Notes:

1. *Lane pattern shown on this sheet shall be maintained for PM Peak Period Traffic Flow (3:30PM to 7:30PM).*
2. *Traffic control devices to remain during night hours shall be fitted with steady burn lights & reflectors in accordance with the current MUTCD.*
3. *Driveway access to golf course shall be maintained at all times.*
4. *All cones at 20' O.C. unless noted otherwise.*
5. *ADA compliant pedestrian access shall be maintained at all times.*

Legend

- Cones or Delineators at Spacing Shown on Plan
- Portable Barrier
- Sign
- Work Area
- High Level Warning Device
- Direction of Traffic Flow
- Flashing Arrow Panel
- Police Officer

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

Note:

All Streets Under City Jurisdiction Unless Otherwise Noted

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE — EXPIRATION DATE OF THE LICENSE

APPROVED:

Chief, Traffic Review Branch, DPP (for work within City R/W only) — *Date*

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SURFACE STREETS – SCHEME SB

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

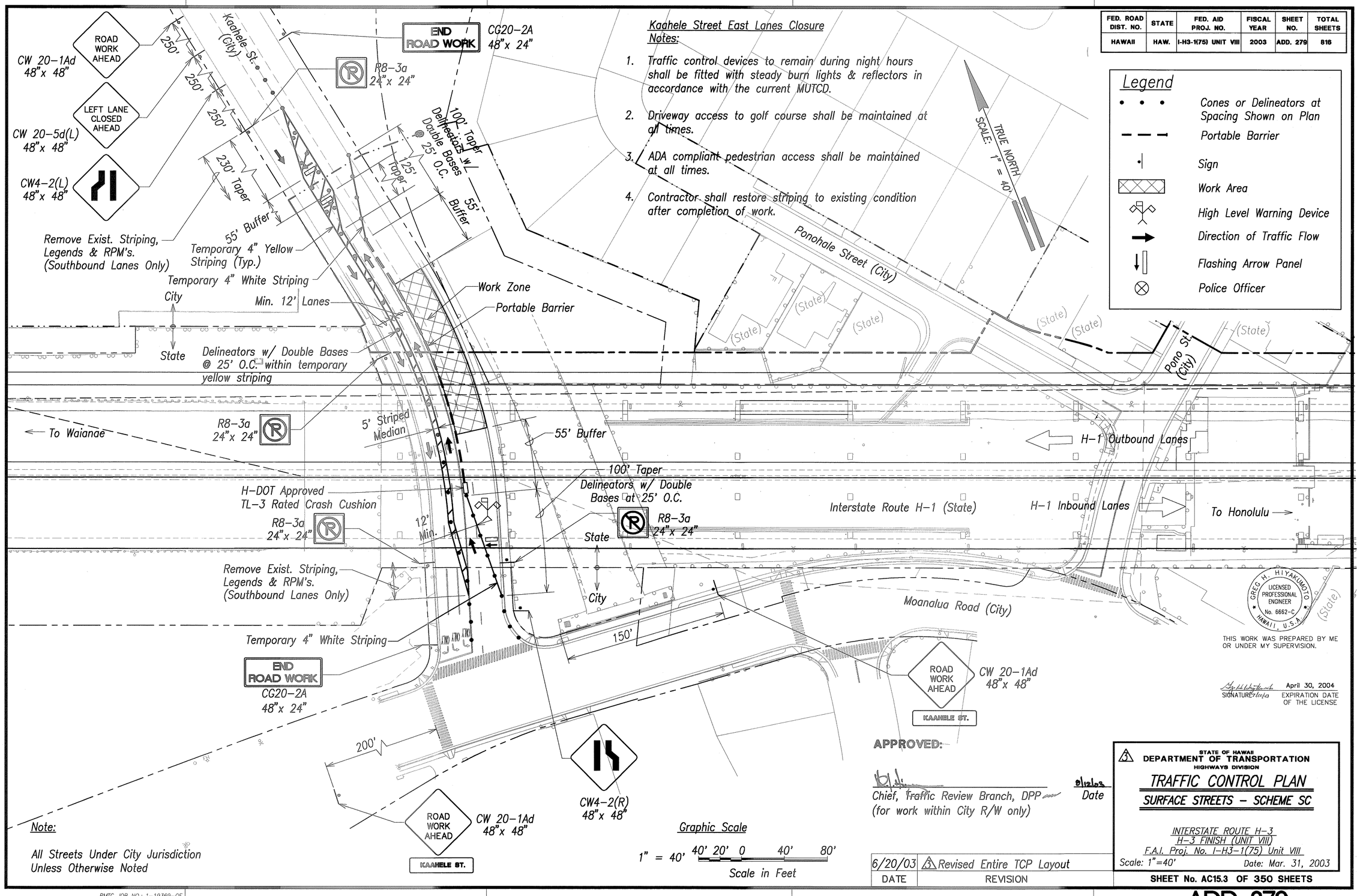
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

"AS-BUILT" ADD. 278

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 279	816



Kaahele Street East Lanes Closure Notes:

1. *Traffic control devices to remain during night hours shall be fitted with steady burn lights & reflectors in accordance with the current MUTCD.*
2. *Driveway access to golf course shall be maintained at all times.*
3. *ADA compliant pedestrian access shall be maintained at all times.*
4. *Contractor shall restore striping to existing condition after completion of work.*

Legend

- Cones or Delineators at Spacing Shown on Plan
- Portable Barrier
- Sign
- Work Area
- High Level Warning Device
- Direction of Traffic Flow
- Flashing Arrow Panel
- Police Officer

Note:

All Streets Under City Jurisdiction Unless Otherwise Noted

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE _____ April 30, 2004 EXPIRATION DATE OF THE LICENSE

APPROVED:

_____ 6/20/03
Chief, Traffic Review Branch, DPP Date
(for work within City R/W only)

DATE	REVISION
6/20/03	3 Revised Entire TCP Layout

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SURFACE STREETS - SCHEME SC

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.3 OF 350 SHEETS

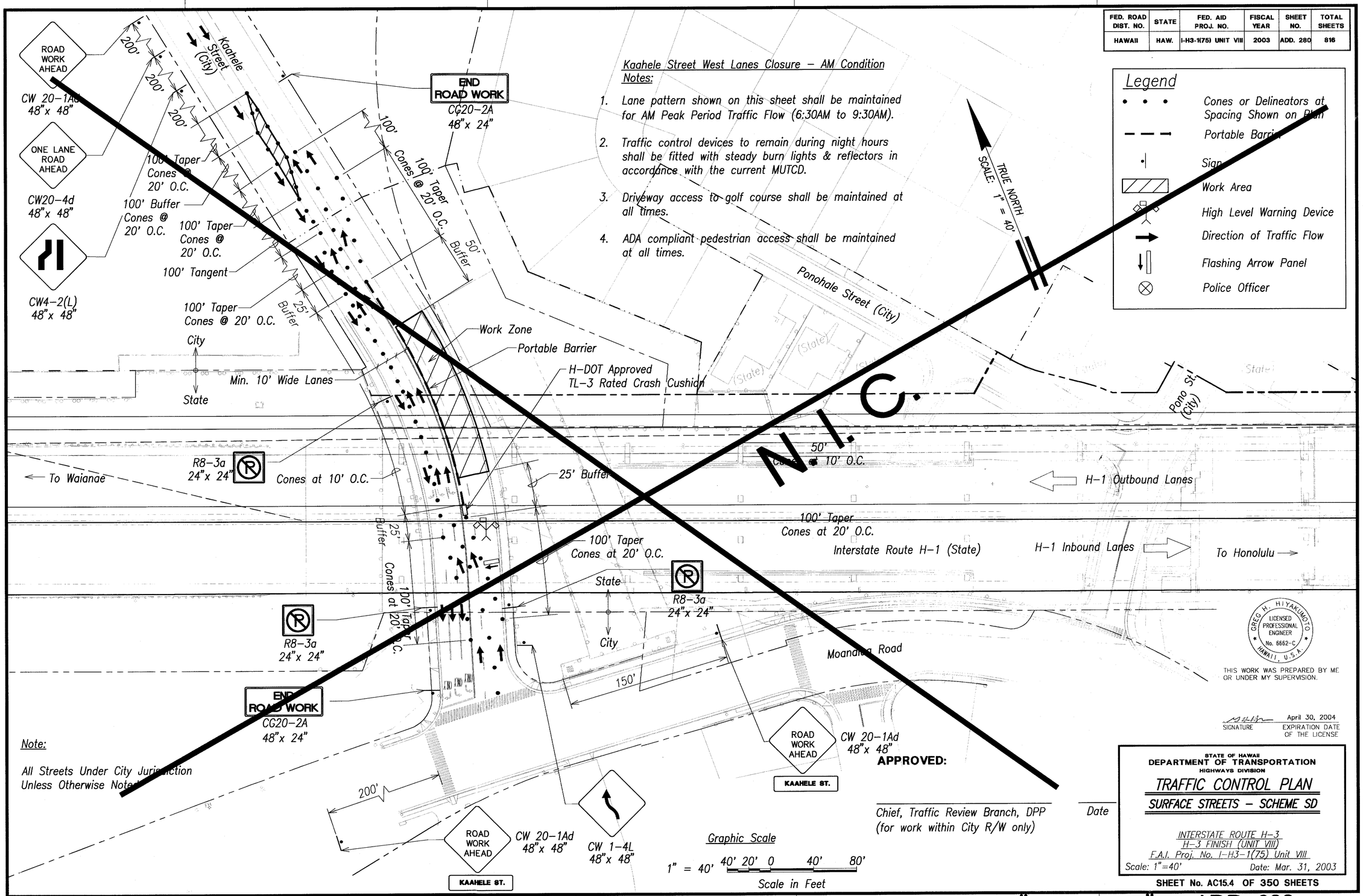
ADD. 279

ORIGINAL PLAN | NOTE BOOK No. ____

SURVEY PLOTTED BY ____ DATE: ____
DRAWN BY ____
TRACED BY ____
DESIGNED BY ____
QUANTITIES BY ____
CHECKED BY ____

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 280	816



Kaahele Street West Lanes Closure – AM Condition Notes:

1. *Lane pattern shown on this sheet shall be maintained for AM Peak Period Traffic Flow (6:30AM to 9:30AM).*
2. *Traffic control devices to remain during night hours shall be fitted with steady burn lights & reflectors in accordance with the current MUTCD.*
3. *Driveway access to golf course shall be maintained at all times.*
4. *ADA compliant pedestrian access shall be maintained at all times.*

Legend

- Cones or Delineators at Spacing Shown on Plan
- Portable Barrier
- Sign
- Work Area
- High Level Warning Device
- Direction of Traffic Flow
- Flashing Arrow Panel
- Police Officer

Note:

All Streets Under City Jurisdiction Unless Otherwise Noted

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

APPROVED:

Chief, Traffic Review Branch, DPP (for work within City R/W only) Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SURFACE STREETS – SCHEME SD

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.4 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

"AS-BUILT" ADD. 280

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 281	816

Notes:

1. All Streets Under City Jurisdiction Unless Otherwise Noted
2. Emergency vehicles shall be allowed passage through the closure area at all times.
3. * denotes properties under State jurisdiction.

Legend

- Cones or Delineators at Spacing Shown on Plan
- Type III Barriers
- Sign
- Work Area
- Direction of Traffic Flow
- Police Officer w/ vehicle, w/ flashing, blue light.

Komo Mai Drive (City)
Nahele Street
Hapaki Street (City)
Kaahele Street (City)
Hookanike Street (City)
Kaahumanu Street (City)
Noelani Street (City)
Lulu Street
Holopuni Street (City)
Kaalo Street (Private)
Kilinoe Street (City)
Pono Street (City)
Kilinoe St (Private)
Interstate H-1
State
City
To Waianae
To Honolulu
Interstate Route H-1 (State)
Moanalua Road (City)
Recreation Center Driveway
Golf Course Driveway
Work Zone
See Inset
200'
350'
325'
100'

Special 60" X 30" KAAHELE ST. CLOSED AT MOANALUA RD.
MOANALUA RD. DETOUR M4-9L 30"x 24"
KAAHELE ST. DETOUR M4-9R 30"x 24"
KAAHELE ST. DETOUR M4-9 30"x 24"
MOANALUA RD. DETOUR M4-9 30"x 24"
KAAHELE ST. DETOUR M4-9 30"x 24"
MOANALUA RD. DETOUR M4-9L 30"x 24"
MOANALUA RD. DETOUR M4-9 30"x 24"
KAAHELE ST. DETOUR M4-9R 30"x 24"
KAAHELE ST. DETOUR M4-9 30"x 24"
MOANALUA RD. DETOUR M4-9 30"x 24"
KAAHELE ST. DETOUR M4-9L 30"x 24"
KAAHELE ST. DETOUR M4-9 30"x 24"
MOANALUA RD. DETOUR M4-9L 30"x 24"
KAAHELE ST. DETOUR M4-9R 30"x 24"
KAAHELE ST. DETOUR M4-9 30"x 24"
MOANALUA RD. DETOUR M4-9 30"x 24"
KAAHELE ST. DETOUR M4-9L 30"x 24"
Special 60" X 30" KAAHELE ST. CLOSED AT MOANALUA RD. USE KAAHUMANU STREET
Special 60" X 30" KAAHELE ST. CLOSED AT MOANALUA RD. LEFT TURN ONLY TO DRIVEWAY
Special 60" X 30" KAAHELE ST. CLOSED AT MOANALUA/ST.
R3-1 24"x 24" KAAHELE ST. DETOUR M4-9 30"x 24"
R3-2 24"x 24"
2-Type III Barricades w/ Warning Lights Install Sign
PROJECT HOTLINE 808-XXX-XXXX REF: I-H3-1(75) UNIT VIII
ROAD CLOSED R11-2 60" X 30"
CW4-2(R)-A 48"x 48"
CW 20-3d 48"x 48"
CW 20-3d (Modified) 48"x 48"
KAAHELE ST. DETOUR AHEAD
KAAHELE ST. CLOSED AHEAD
ROAD CLOSED AHEAD
Cones @ 25' O.C.
100' Buffer
125' Taper

Inset
Scale: 1" = 100'

SCALE: 1" = 200'
TRUE NORTH

APPROVED:

Chief, Traffic Review Branch, DPP (for work within City R/W only) — Date

Graphic Scale
1" = 200' 200'100' 0 200' 400'
Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
6/20/03	3 Added Driveways and Signs; Revised Cones and Dimensions.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SURFACE STREETS – SCHEME SE

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=200' Date: Mar. 31, 2003

SHEET No. AC15.5 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

ADD. 281

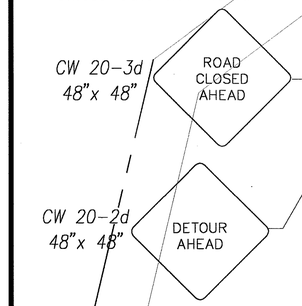
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 282	816

Note:

All Streets Under City Jurisdiction Unless Otherwise Noted

CW 20-3d 48"x 48"

CW 20-2d 48"x 48"



100' 100'

Ponohale Street (City)

PONOHALE ST. DETOUR M4-9R 30"x 24"

ROAD CLOSED TO THRU TRAFFIC PONO STREET DETOUR R11-4 60" X 30" M4-9L 30"x 24"

2-Type III Barricades w/ Warning Lights Install Sign

PROJECT HOTLINE 808-595-1212 REF. I-H3-1(75) UNIT VIII ROAD CLOSED R11-2 60" X 30"

Ponokaulike Street (City)

Ponokiwila Street (City)

PONOHALE ST. DETOUR M4-9 30"x 24"

PONO STREET DETOUR M4-9R 30"x 24"

Work Zone

Pono Street (City)

TRUE NORTH SCALE: 1" = 40'

PONOHALE ST. DETOUR M4-9R 30"x 24"

PONOHALE ST. DETOUR M4-9L 30"x 24"

ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30" PONOHALE ST. DETOUR M4-9R 30"x 24"

PONOHALE ST. DETOUR M4-9 30"x 24"

Ponohana Loop (City)

(State) City State

Legend

- Cones or Delineators at Spacing Shown on Plan
- Type III Barriers
- Sign
- Work Area
- Direction of Traffic Flow
- Police Officer w/ vehicle, w/ flashing, blue light.

← To Waianae

H-1 Outbound Lanes

Interstate Route H-1 (State)

H-1 Inbound Lanes

To Honolulu →

Moanalua Road (City)

GRAPHIC SCALE 1" = 40' 40' 20' 0 40' 80'

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

APPROVED:

Chief, Traffic Review Branch, DPP (for work within City R/W only) — Date

DATE	REVISION
6/20/03	1 Revised Street Name; Added Sign.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SURFACE STREETS - SCHEME SF

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.6 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

ADD. 282

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD.283	816

Note:

All Streets Under City Jurisdiction
Unless Otherwise Noted

M4-9L
30"x 24"

Special
60" X 30"

M4-9
30"x 24"

2-Type III Barricades
w/ Warning Lights
Install Sign

R11-2
60" X 30"

M4-9R
30"x 24"

M4-9R
30"x 24"

CW 20-3d
48"x 48"

CW 20-2d
48"x 48"

100'

100'

M4-9
30"x 24"

2-Type III Barricades
w/ Warning Lights
Install Sign

R11-2
60" X 30"

M4-9R
30"x 24"

M4-9L
30"x 24"

2-Type III Barricades
w/ Warning Lights
Install Sign

R11-2
60" X 30"

M4-9L
30"x 24"

Kilinoe Street (City)
Ponohale Street (City)
Pono Street (City)
Ponohana Loop (City)
Puahau Place (City)
Puaalii Street (City)
Puakukui Place (City)
Puakika Place (City)
Puahoku Place (City)
Ponokiwila Place (City)
Ponokiwila Street (City)
Ponokaulike Street (City)
Kaahele Street (City)
Moanalua Road (City)
Detour Road
See Sheet AC 15.11
Work Zone
To Waianae
H-1 Outbound Lanes
Interstate Route H-1 (State)
H-1 Inbound Lanes
To Honolulu
State
City
(State)

TRUE NORTH
SCALE: 1" = 80'

Graphic Scale
1" = 80' 80' 40' 0 80' 160'
Scale in Feet

Legend

- Cones or Delineators at Spacing Shown on Plan
- Type III Barriers
- Sign
- Work Area
- Direction of Traffic Flow
- Police Officer w/ vehicle, w/ flashing, blue light.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

APPROVED: (5)

Chief, Traffic Review Branch, DPP (for work within City R/W only)

Date

DATE	
10/16/03	(5) OBTAINED CITY APPROVAL
DATE	REVISON

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

SURFACE STREETS - SCHEME SG

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=80' Date: Mar. 31, 2003

SHEET No. AC15.7 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 283

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 284	816

Note:

All Streets Under City Jurisdiction Unless Otherwise Noted

ROAD WORK AHEAD
CW 20-1Ad
48"x 48"

ONE LANE ROAD AHEAD
CW20-4d
48"x 48"

MAKAI ON PONO STREET
Special
30"x 24"

CW20-7A-A
48"x 48"
100 FEET
Supplemental Plate
24" X 18"

ROAD WORK AHEAD
CW 20-1Ad
48"x 48"

ONE LANE ROAD AHEAD
CW20-4d
48"x 48"

END ROAD WORK
CG20-2A
48"x 24"

Ponokaulike Street

Ponohale Street (City)

Pono Street (City)

Ponohana Loop (City)

TRUE NORTH
SCALE: 1" = 40'

100'
100.11'
100'
100'
100

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 285	816

Notes:

1. *All Streets Under City Jurisdiction Unless Otherwise Noted*
2. *ADA compliant pedestrian access shall be provided at all times.*

Legend

- Cones or Delineators at Spacing Shown on Plan
- SIGN
- Work Area
- High Level Warning Device
- Direction of Traffic Flow
- Police Officer

TRUE NORTH
SCALE: 1" = 40'

Ponokaulike Street
Ponohale Street (City)
Pono Street (City)
Ponohana Loop (City)
Interstate Route H-1 (State)
Moanalua Road (City)
To Waianae
To Honolulu
H-1 Outbound Lanes
H-1 Inbound Lanes
Work Zone
Cones @ 10' O.C.
50' Taper
State
City
(State)
100'
200'
10' Min.

ROAD WORK AHEAD
CW 20-1Ad
48"x 48"

ONE LANE ROAD AHEAD
CW20-4d
48"x 48"

MAKAI ON PONO STREET
Special
30"x 24"

CW20-7A-A
48"x 48"
100 FEET
Supplemental Plate
24" X 18"

END ROAD WORK
CG20-2A
48"x 24"

200 FEET
Supplemental Plate
24" X 18"

PONO STREET
Special
30"x 18"

APPROVED:

Chief, Traffic Review Branch, DPP
(For Work Within City R/W Only)

Date

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

DATE	REVISION
6/20/03	3 Added, Moved Warning Device; Replaced Flagman with Police Officer; Revised Dimension & Cones.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 7/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SURFACE STREETS - SCHEME SI

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.9 OF 350 SHEETS

ADD. 285

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 286	816

Note:

All Streets Under City Jurisdiction
Unless Otherwise Noted

Legend

- Cones or Delineators at Spacing Shown on Plan
- Type III Barriers
- Sign
- Work Area
- Direction of Traffic Flow
- Police Officer w/ vehicle, w/ flashing, blue light.

Kaahele Street (City)

Ponohale Street (City)

Pono Street (City)

Ponohana Loop (City)

Ponokiwila Street (City)

Ponokaulike Street (City)

Puaanuhe Street (City)

Puahau Place (City)

Puaalii Street (City)

Puakukui Place (City)

Puakika Place (City)

Puahoku Place

ROAD CLOSED AHEAD
NO THRU TRAFFIC
R11-3 (MODIFIED)
60" X 30"

PONOHANA LOOP
DETOUR
M4-9R
30"x 24"

ROAD CLOSED AHEAD
NO THRU TRAFFIC
R11-3 (MODIFIED)
60" X 30"

ROAD CLOSED AHEAD
CW 20-3d
48"x 48"

DETOUR AHEAD
CW 20-2d
48"x 48"

PONOHANA LOOP
DETOUR
M4-9
30"x 24"

100'

100'

2-Type III Barricades
w/ Warning Lights
Install Sign

PROJECT HOTLINE
808-586-2210
REF: HI3-1(75) UNIT VIII
ROAD CLOSED TO THRU TRAFFIC
PONOHANA LOOP
DETOUR
R11-4
60" X 30"
M4-9L
30"x 24"

2-Type III Barricades
w/ Warning Lights
Install Sign

PROJECT HOTLINE
808-586-2210
REF: HI3-1(75) UNIT VIII
ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

Work Zone

(State) (State) (State) (State) (State) (State) (State) (State) (State) (State) (State) (State) (State) (State)

City State

City State

State City

To Waianae

H-1 Outbound Lanes

Interstate Route H-1 (State)

H-1 Inbound Lanes

To Honolulu

State

State

City

City

TRUE NORTH
SCALE: 1" = 80'

Graphic Scale
1" = 80' 80' 40' 0 80' 160'
Scale in Feet

APPROVED: 5

Chief, Traffic Review Branch, DPP
(for work within City R/W only)

Date

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

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

DATE	REVISON
10/16/03	3 OBTAINED CITY APPROVAL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
SURFACE STREETS - SCHEME SJ

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

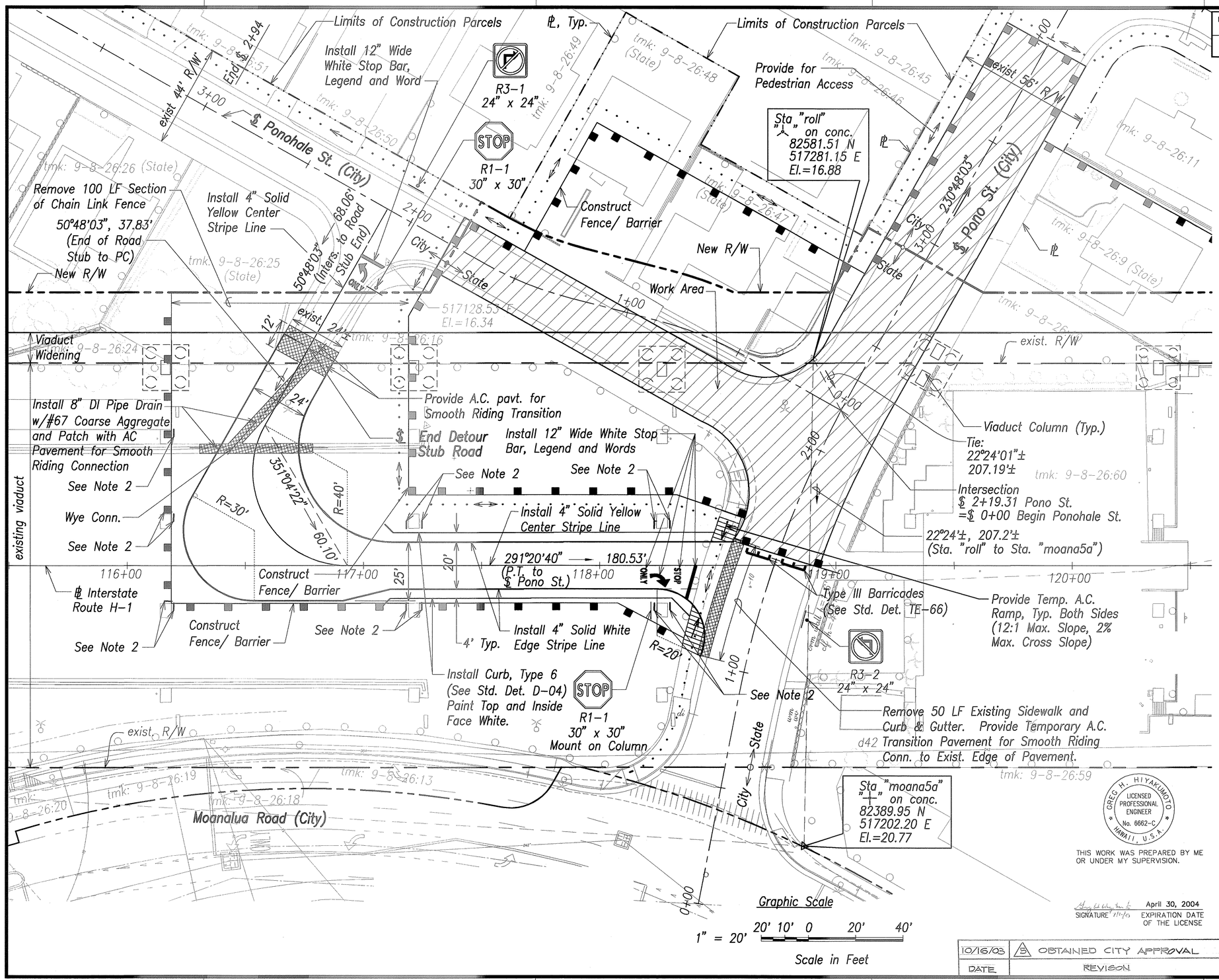
Scale: 1"=80' Date: Mar. 31, 2003

SHEET No. AC15.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 286

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287	816



Note:

1. Contractor shall provide Temp. Lighting to the satisfaction of the Engineer, for the Detour Road at all times during its use (See Elec. Dwgs.).
2. Install Type II Object Marker onto Column (For Det., see Std. Plan TE-17)

Legend

- Type III Barriers
- Sign
- Work Area
- Fence/Barrier
- Pedestrian Access

APPROVED: (5)

Chief, Traffic Review Branch, DPP — Date
(for work within City R/W only)

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
10/16/03	(5) OBTAINED CITY APPROVAL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PONO STREET
DETOUR ROAD PLAN

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

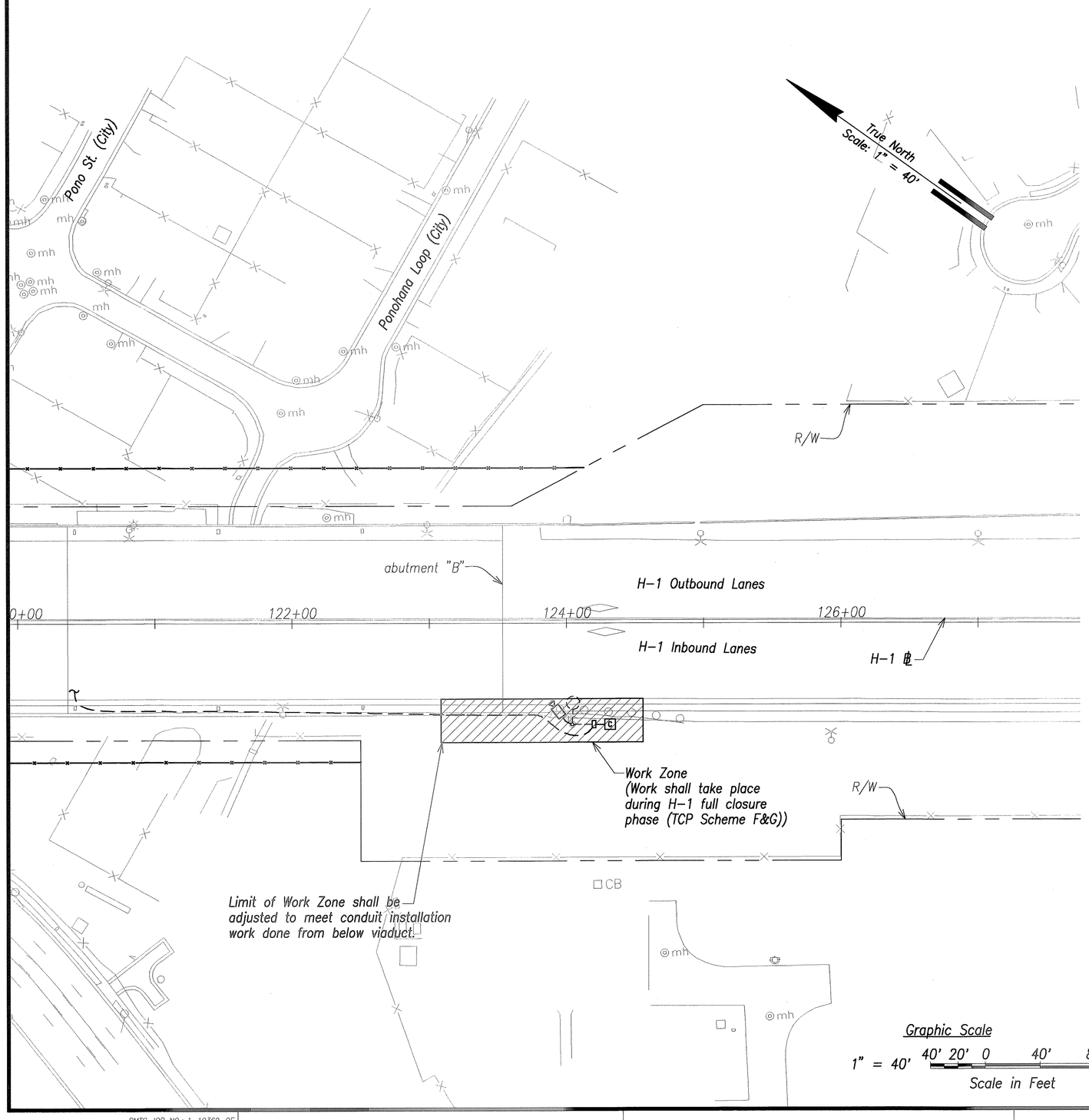
SHEET No. AC15.11 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

ADD. 287

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-1	816



Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION H-1 EAST NR. ABUTMENT "B"

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

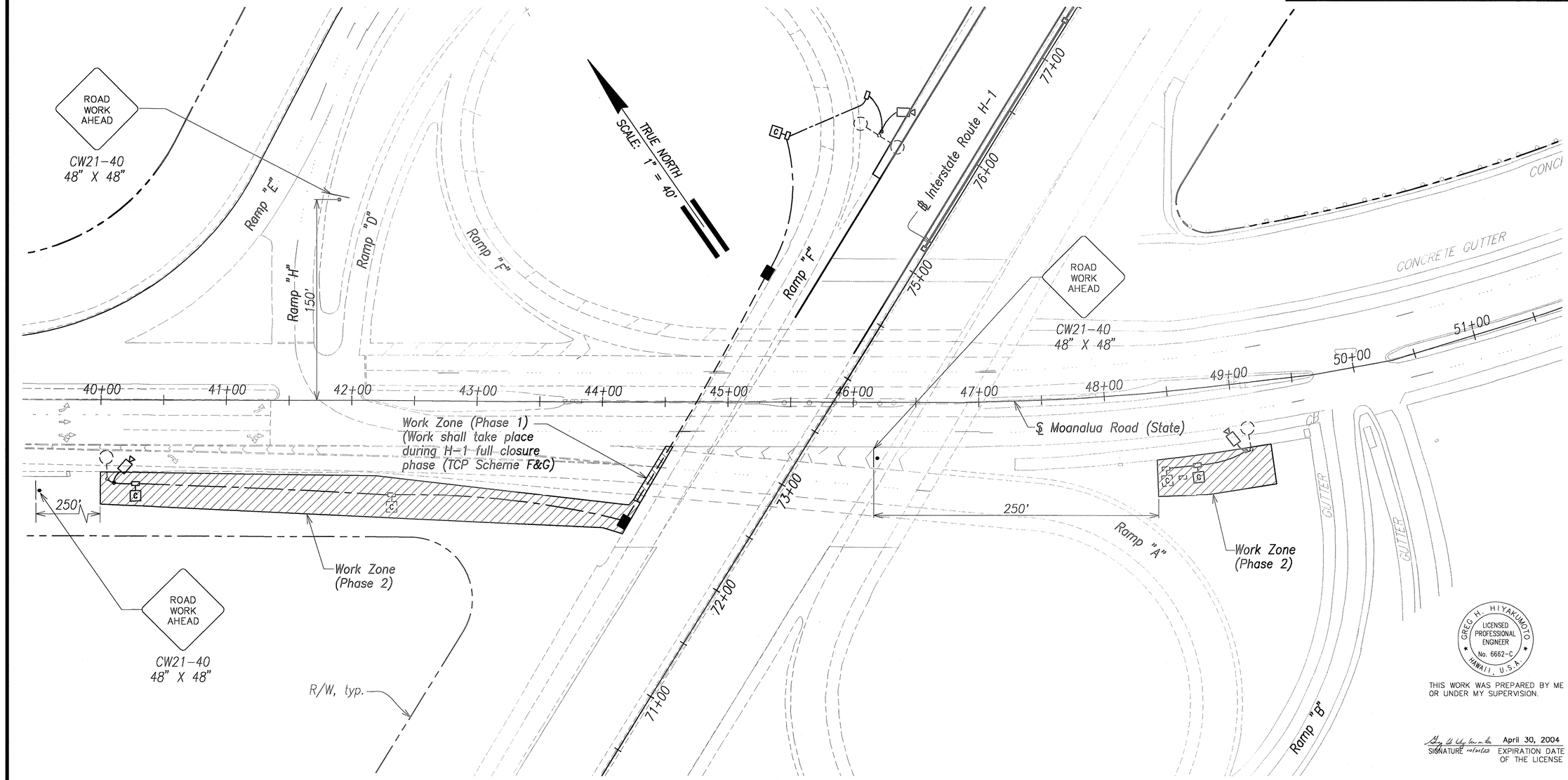
DATE	REVISION
10/16/03	5 Sheet Added

SHEET No. AC15.11A OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 287S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-2	816



GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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

Note:
Posted Speed – 35 MPH

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
10/16/03	5 Sheet Added

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION MOANALUA RD. – PHASES 1&2

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

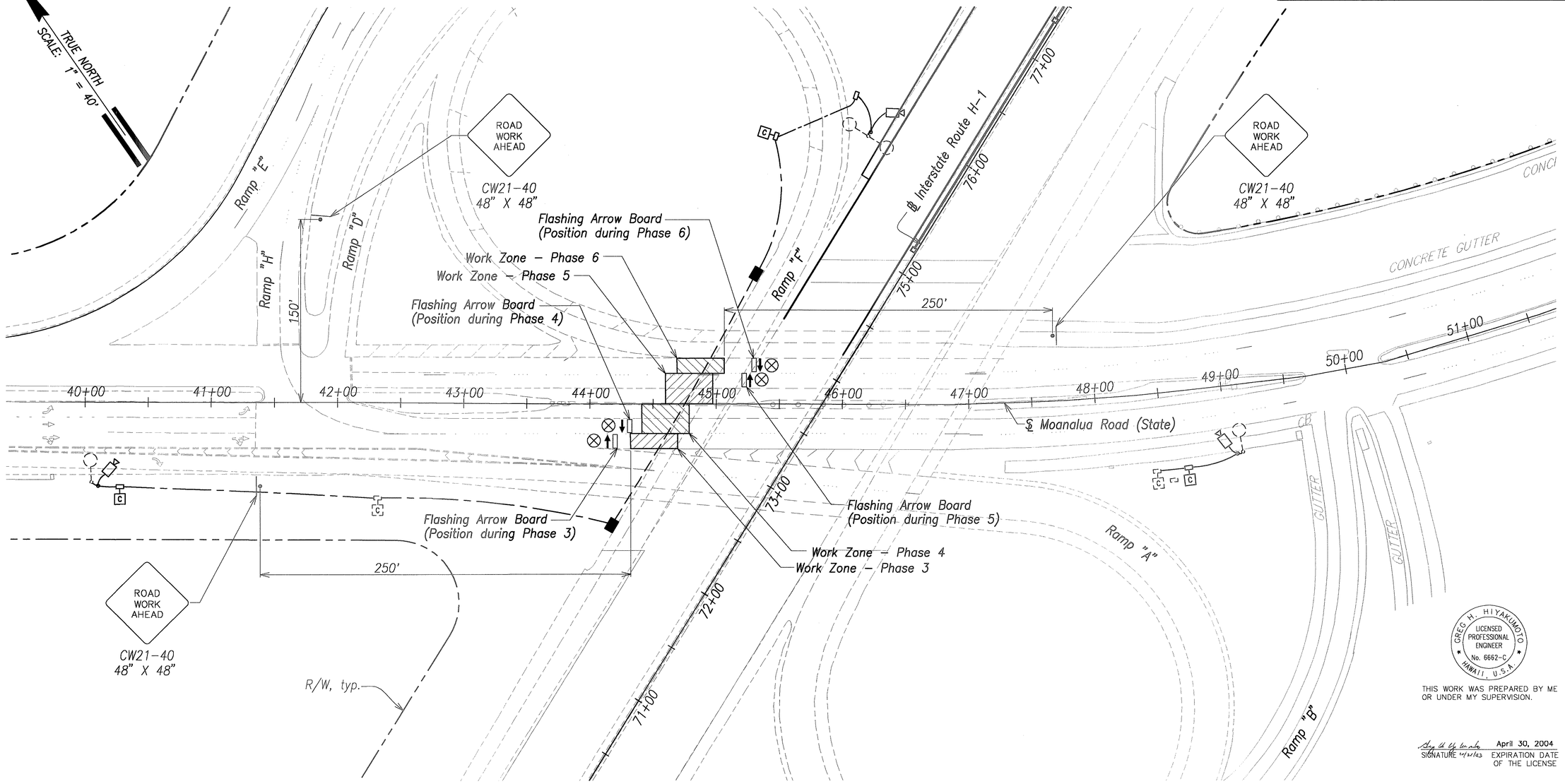
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.11B OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 287S-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-3	816



Note:
Posted Speed – 35 MPH

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
10/16/03	5 Sheet Added

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION MOANALUA RD. – PHASES 3-6

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

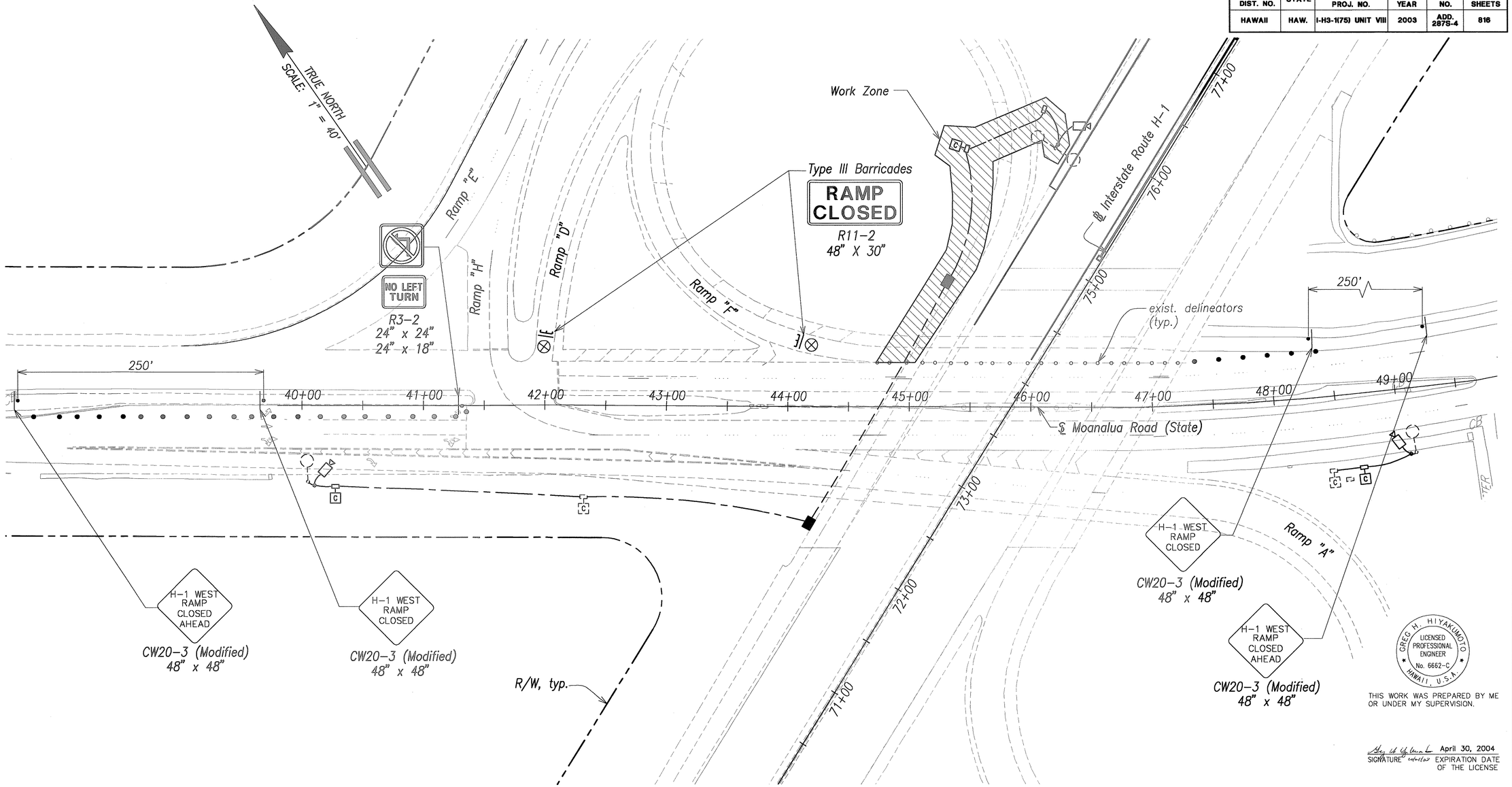
SHEET No. AC15.11C OF 350 SHEETS

ADD. 287S-3

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-4	816



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

Note:
Posted Speed – 35 MPH

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

DATE	REVISION
10/16/03	5 Sheet Added

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION MOANALUA RD. – PHASE 7

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

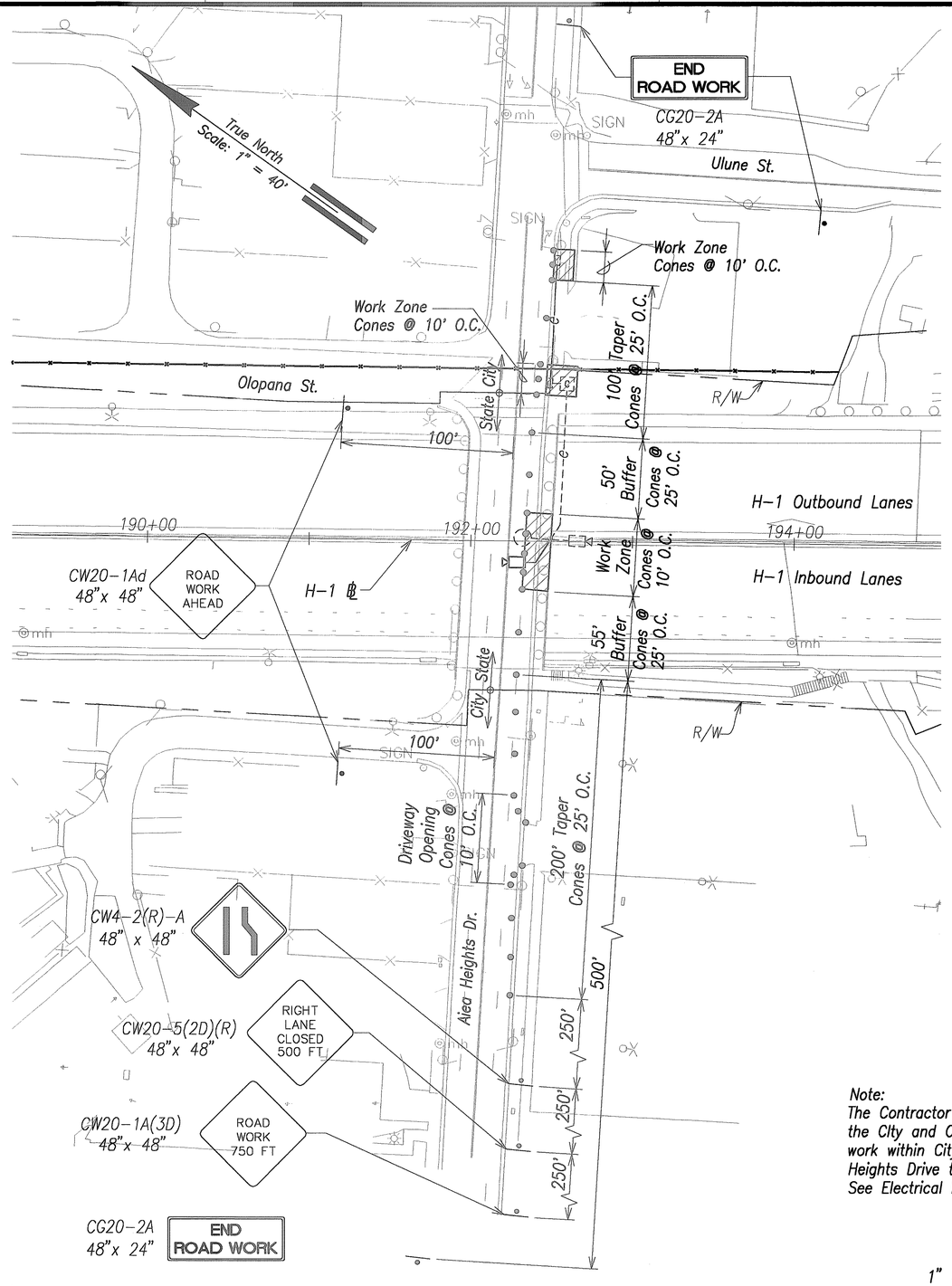
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.11D OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 287S-4

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-5	816



Note:
The Contractor shall submit Traffic Control Plans to the City and County of Honolulu for approval prior to work within City R/W along Ulune Street from Aiea Heights Drive to Kaimakani Street.
See Electrical Plans for layout of line in this area.

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
10/16/03	5 Sheet Added

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

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION AIEA HEIGHTS DRIVE

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

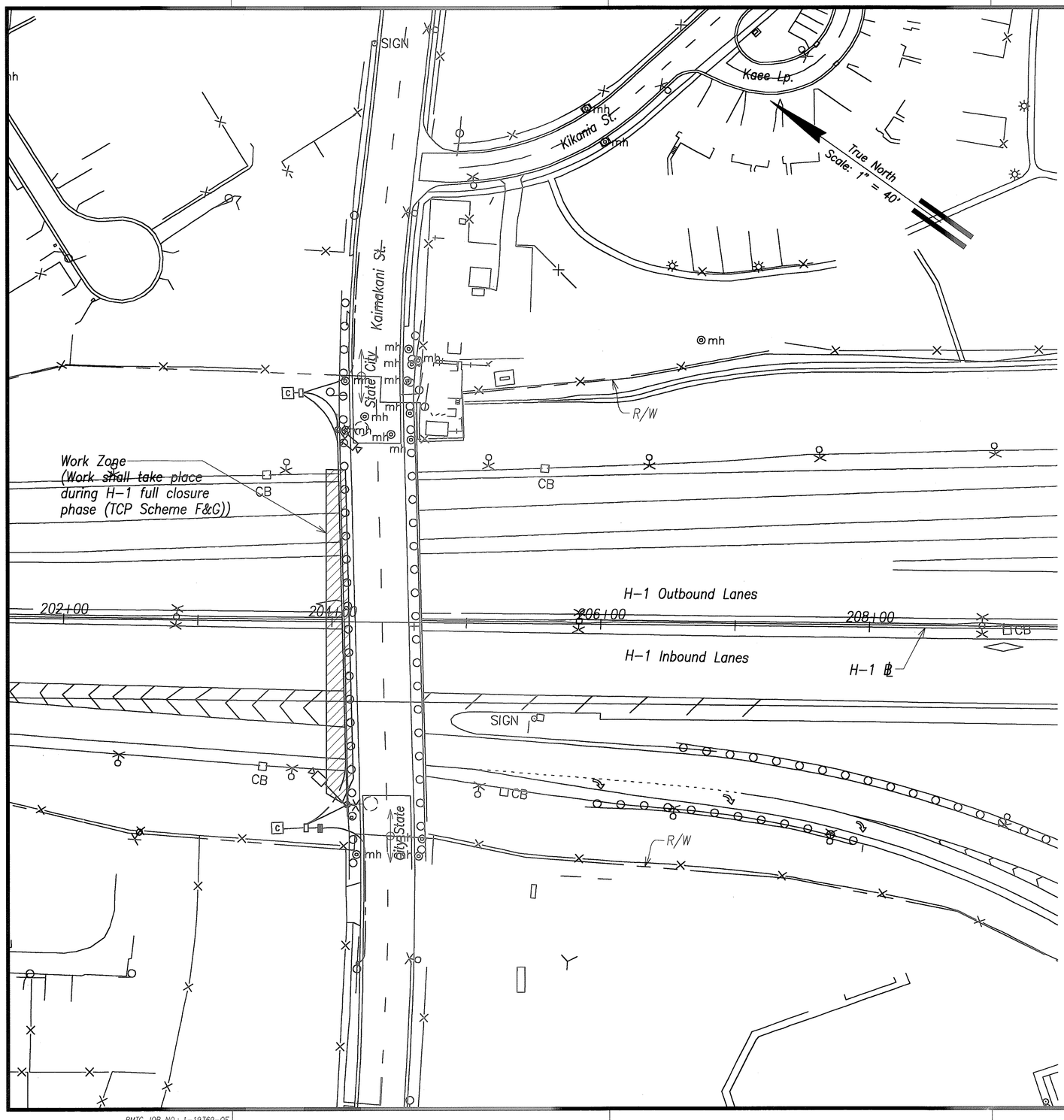
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.11E OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 287S-5

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-6	816



ORIGINAL PLANS	SURVEY PLOTTED BY	DATE
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	DESIGNED BY	
No.	QUANTITIES BY	
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Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
10/16/03	5 Sheet Added

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION KAIMAKANI ST. - PHASE 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

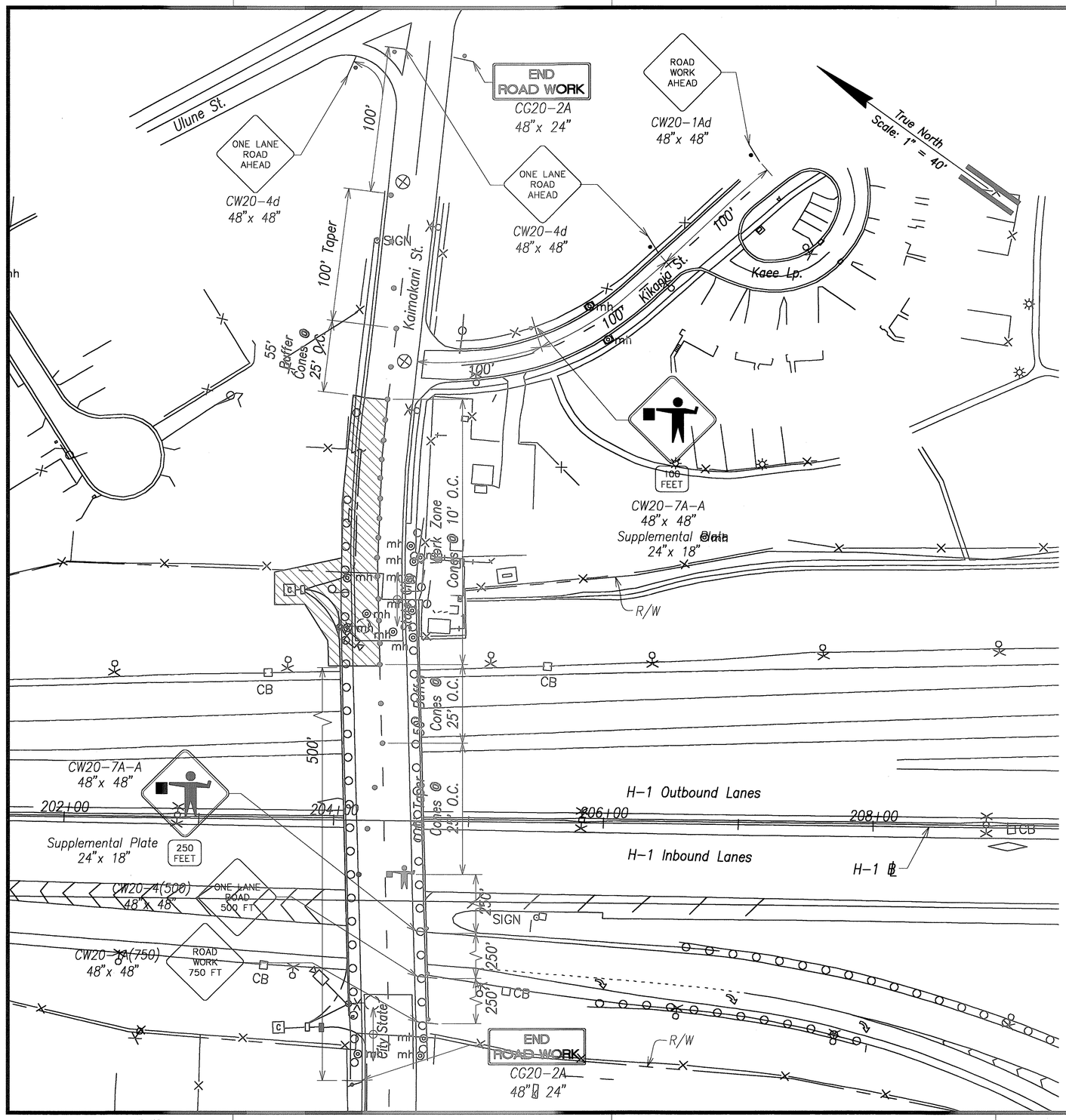
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.11F OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 287S-6

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-7	816



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

RMTC JOB NO.: 1-19369-OE

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Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
10/16/03	5 Sheet Added

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION KAIMAKANI ST. - PHASE 2

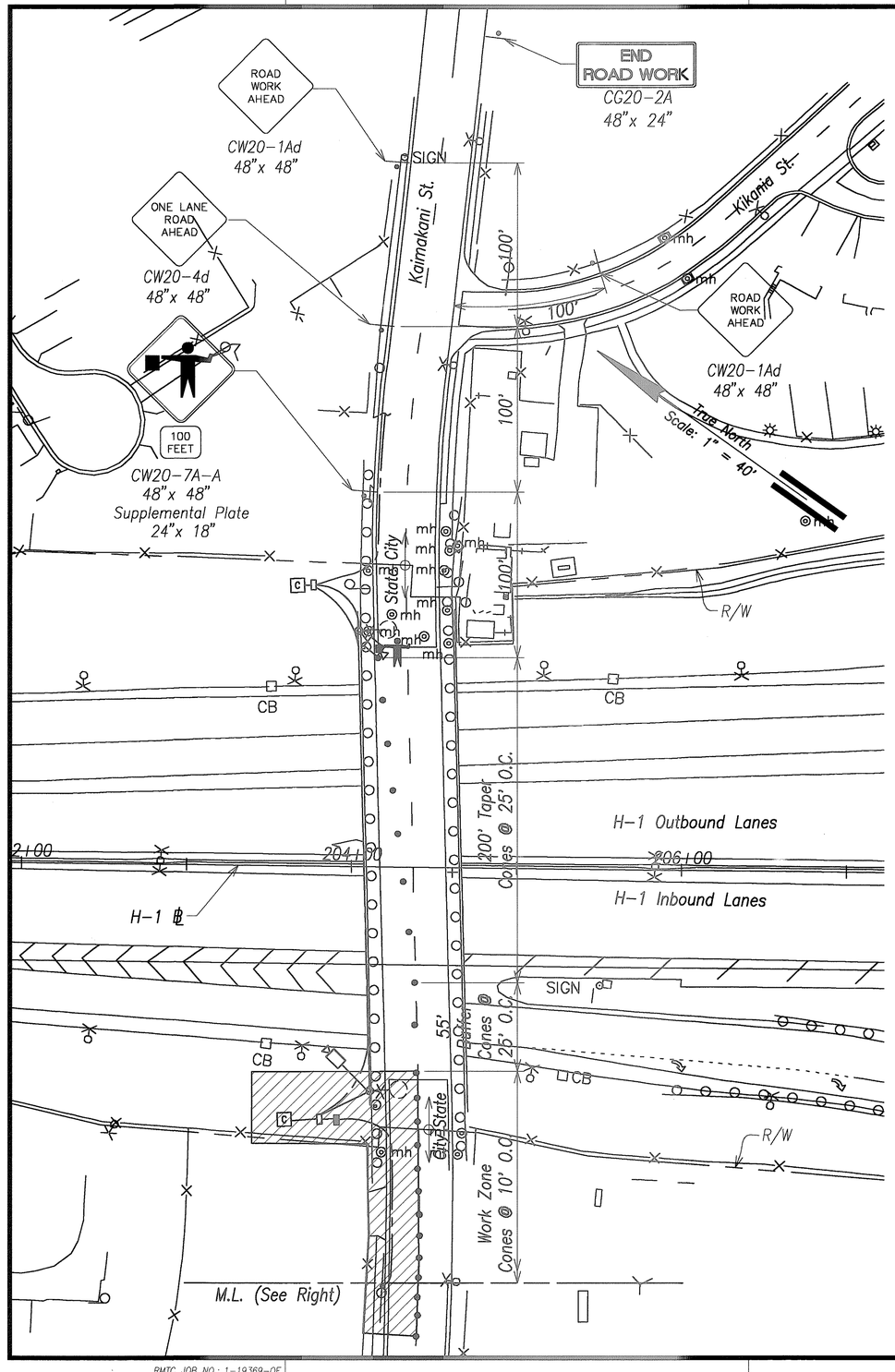
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

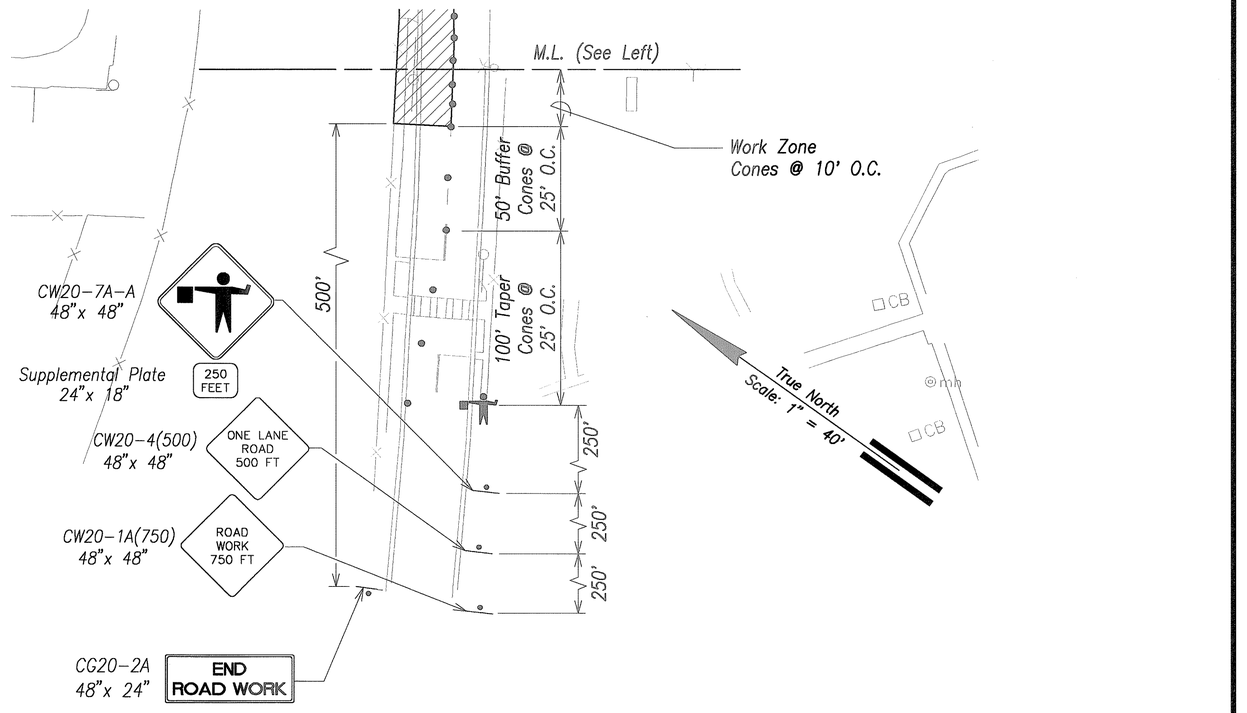
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.11G OF 350 SHEETS

ADD. 287S-7

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-8	816





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

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

DATE	REVISION
10/16/03	5 Sheet Added

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION
KAIMAKANI ST. – PHASE 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

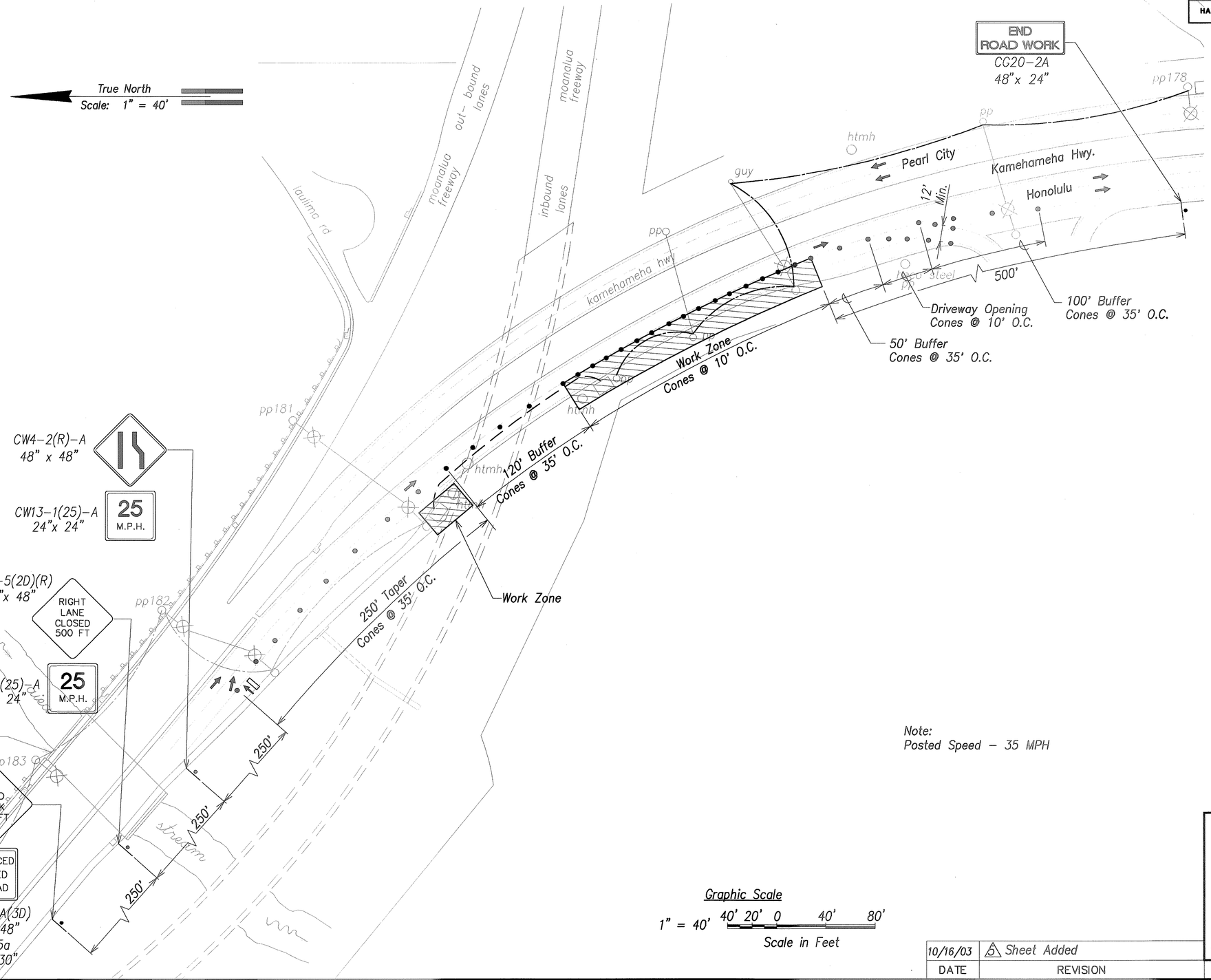
SHEET No. AC15.11H OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 287S-8

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-9	816

True North
Scale: 1" = 40'



Note:
Posted Speed – 35 MPH

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

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

RMTC JOB NO.: 1-19369-0E

10/16/03	5 Sheet Added
DATE	REVISION

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April 30, 2004
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

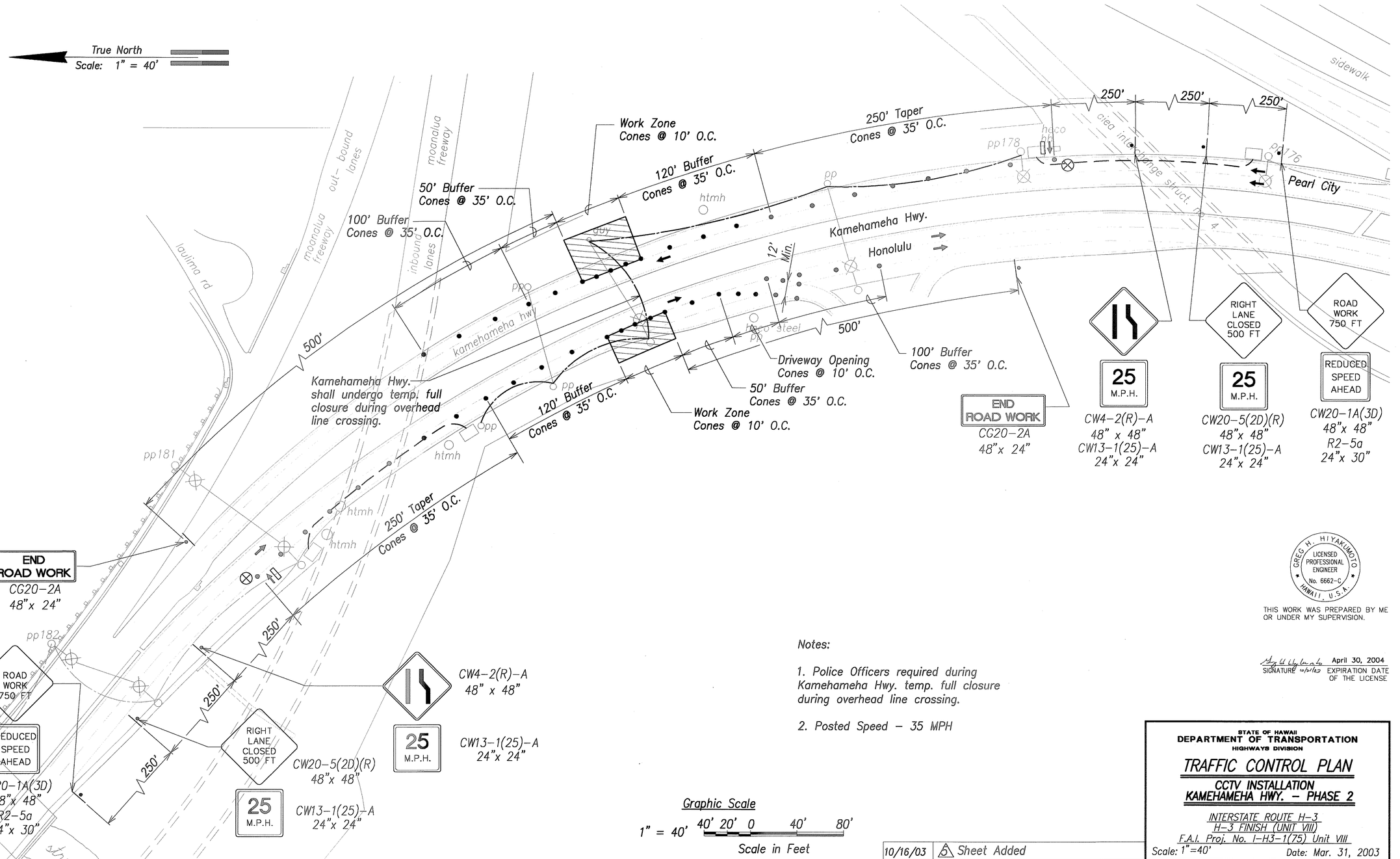
CCTV INSTALLATION KAMEHAMEHA HWY. – PHASE 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC15.111 OF 350 SHEETS

ADD. 287S-9

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-10	816



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

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

Notes:

1. Police Officers required during Kamehameha Hwy. temp. full closure during overhead line crossing.

2. Posted Speed – 35 MPH

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION KAMEHAMEHA HWY. – PHASE 2

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

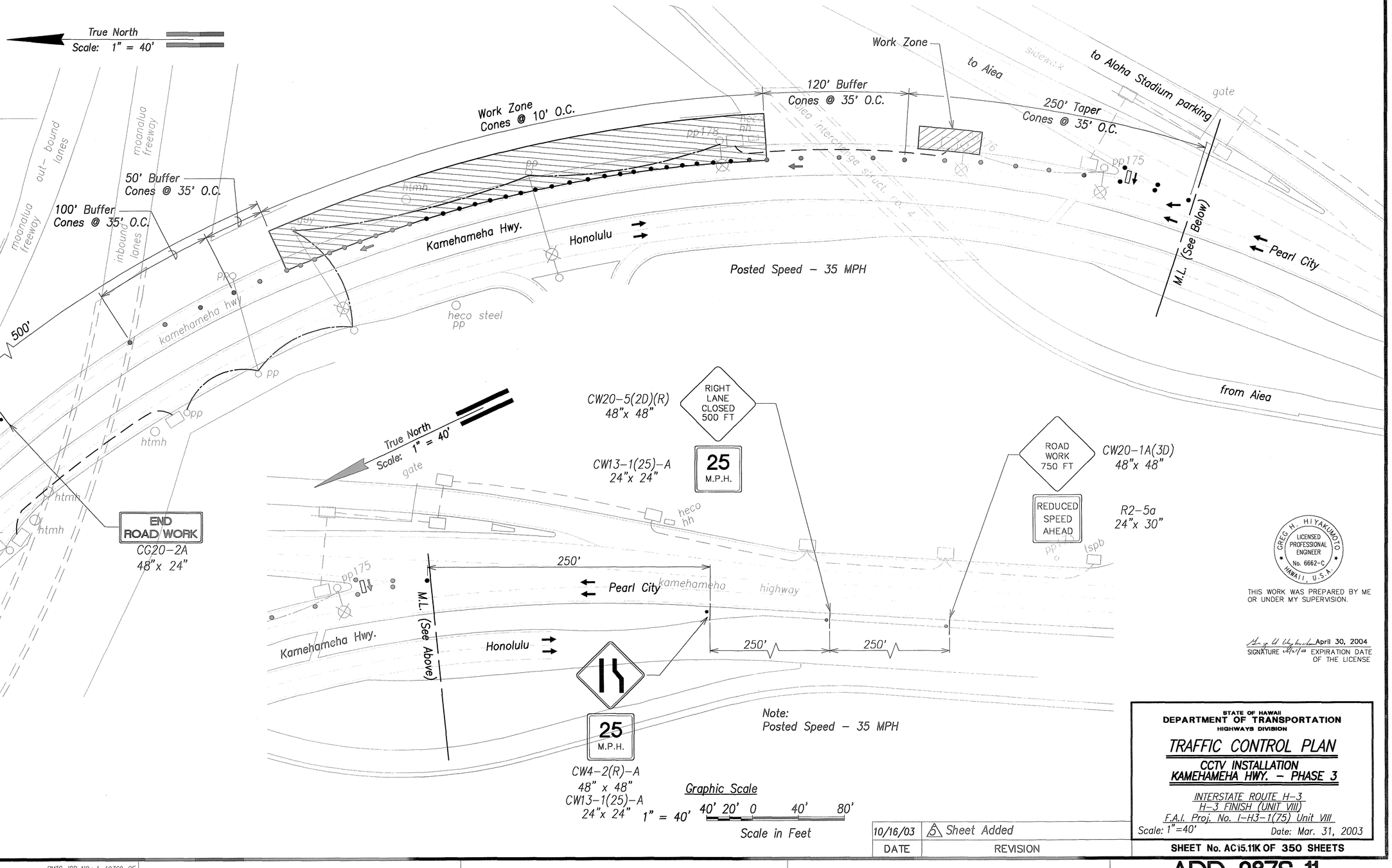
DATE	REVISION
10/16/03	5 Sheet Added

SHEET No. AC15.11J OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 287S-10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-11	816



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
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HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
CCTV INSTALLATION KAMEHAMEHA HWY. – PHASE 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

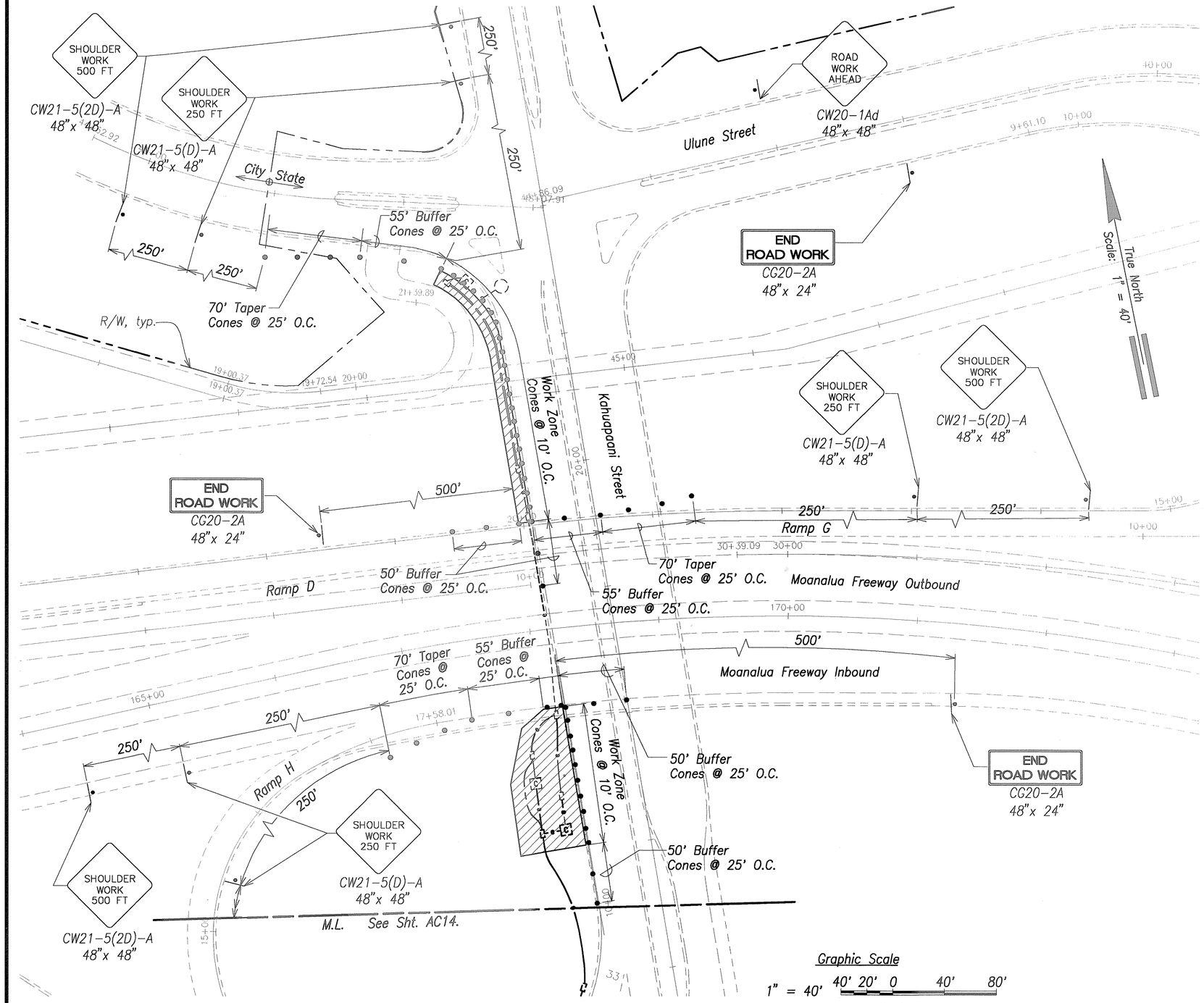
DATE	REVISION
10/16/03	5 Sheet Added

SHEET No. AC15.11K OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 287S-11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-12	816



Note:
Posted Speed
25 MPH – Kahuapaani St.
25 MPH – Ulune St.
35 MPH – Moanalua Freeway (Inbound)
55 MPH – H-3 Freeway
25 MPH – Ramp H
25 MPH – Ramp G

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	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION H-3 PLAN - 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1" = 40' Date: Mar. 31, 2003

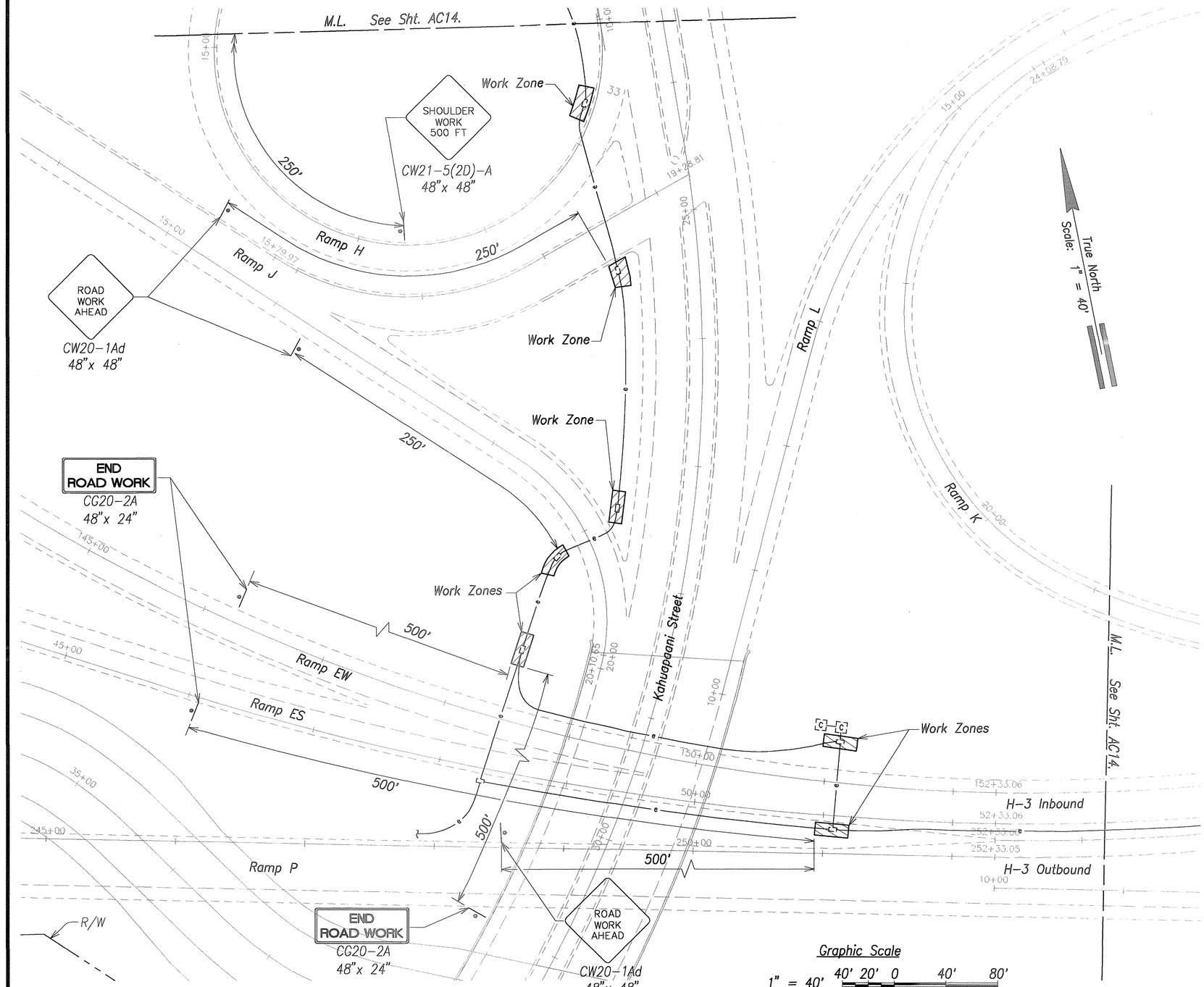
SHEET No. AC15.11L OF 350 SHEETS

10/16/03	5 Sheet Added
DATE	REVISION

RMTC JOB NO.: 1-19369-OE

ADD. 287S-12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-13	816



Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

Note:
Posted Speed
25 MPH – Kahuapaani St.
55 MPH – H-3 Freeway
25 MPH – Ramp G
25 MPH – Ramp H
25 MPH – Ramp J
45 MPH – Ramp P

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

DATE	REVISION
10/16/03	5 Sheet Added

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION H-3 PLAN – 2

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

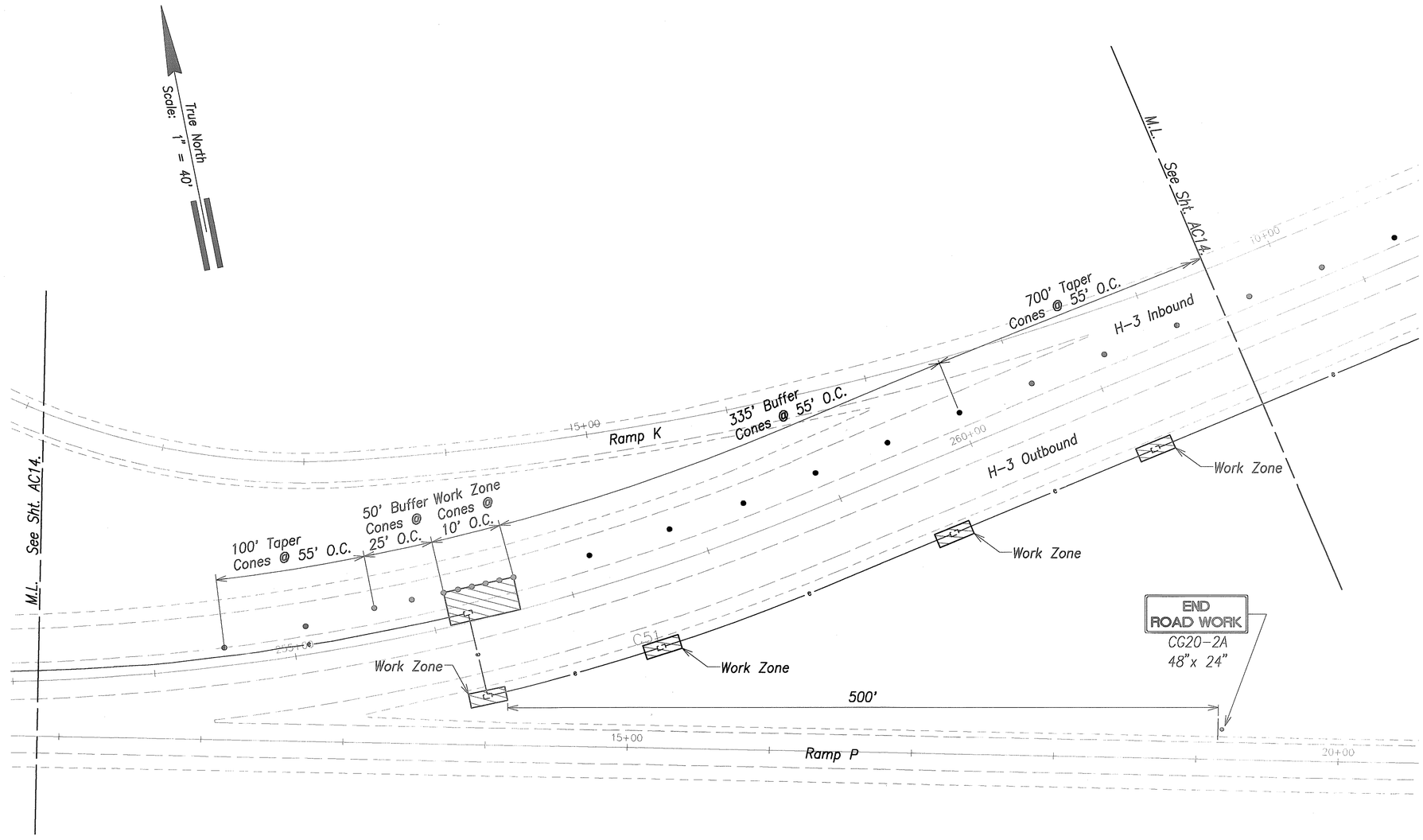
Scale: 1" = 40' Date: Mar. 31, 2003

SHEET No. AC15.11M OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 287S-13

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-14	816



Note:
Posted Speed
55 MPH – H-3 Freeway
45 MPH – Ramp P

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

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

DATE	REVISION
10/16/03	5 Sheet Added

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION H-3 PLAN – 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

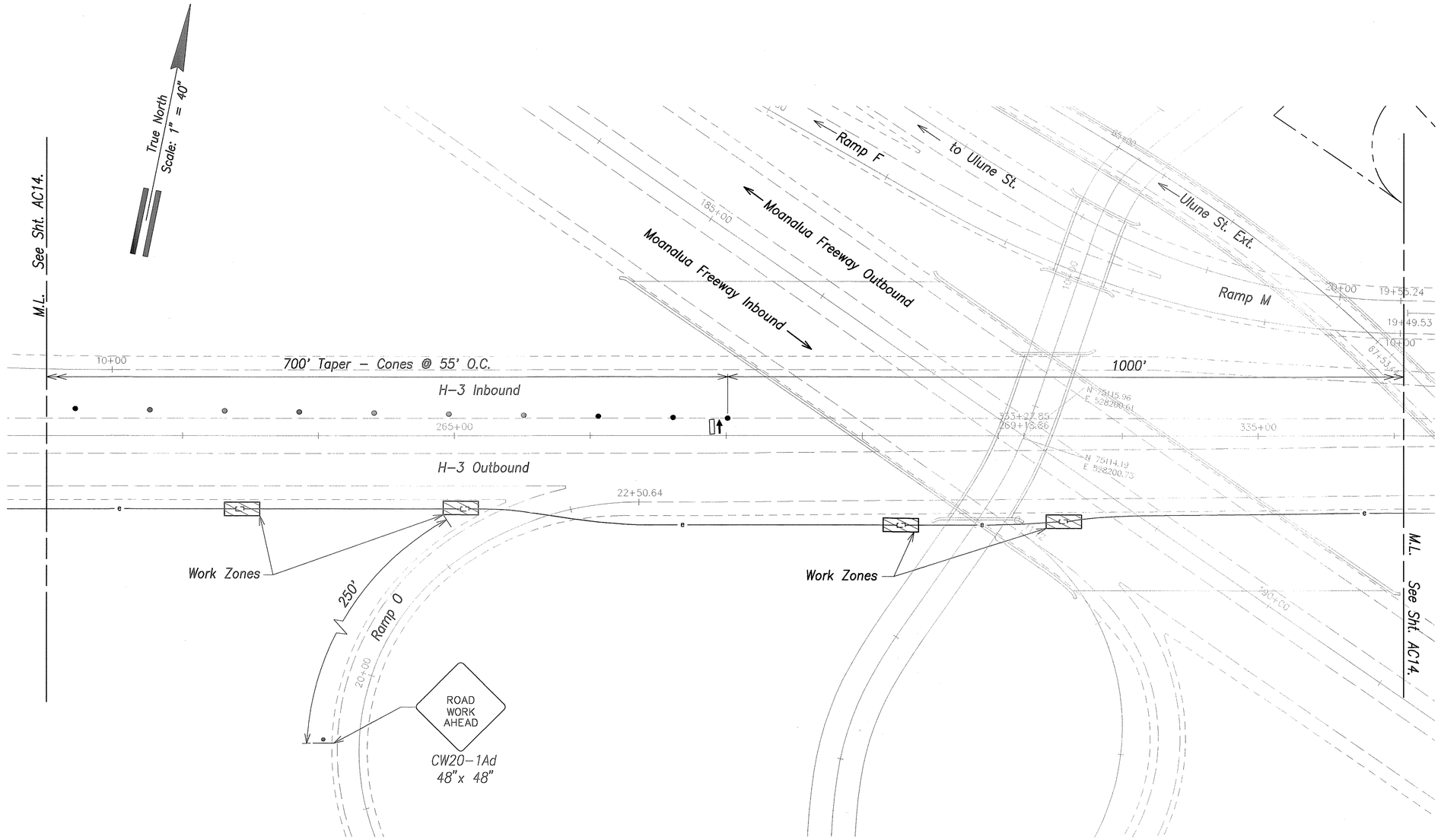
Scale: 1" = 40' Date: Mar. 31, 2003

SHEET No. AC15.11N OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 287S-14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-15	816



Note:
Posted Speed
55 MPH – H-3 Freeway
25 MPH – Ramp O

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

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No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

CCTV INSTALLATION H-3 PLAN – 4

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1" = 40' Date: Mar. 31, 2003

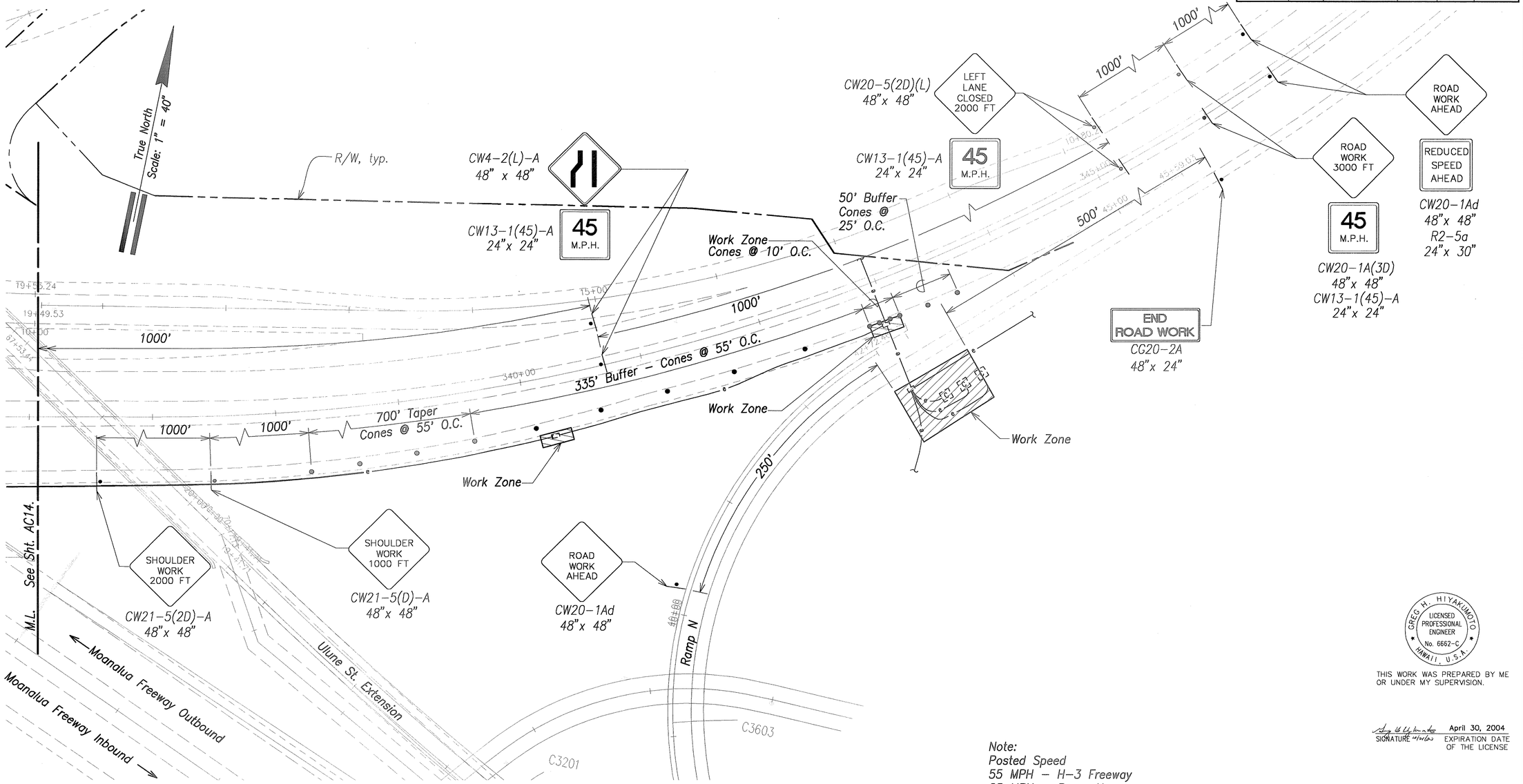
DATE	REVISION
10/16/03	5 Sheet Added

SHEET No. AC15.110 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 287S-15

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 287S-16	816



Note:
Posted Speed
55 MPH – H-3 Freeway
25 MPH – Ramp N

Graphic Scale
1" = 40' 40' 20' 0 40' 80'
Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
CCTV INSTALLATION H-3 PLAN – 5

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1" = 40' Date: Mar. 31, 2003

SHEET No. AC15.11P OF 350 SHEETS

DATE	REVISION
10/16/03	5 Sheet Added

RMTC JOB NO.: 1-19369-0E

ADD. 287S-16

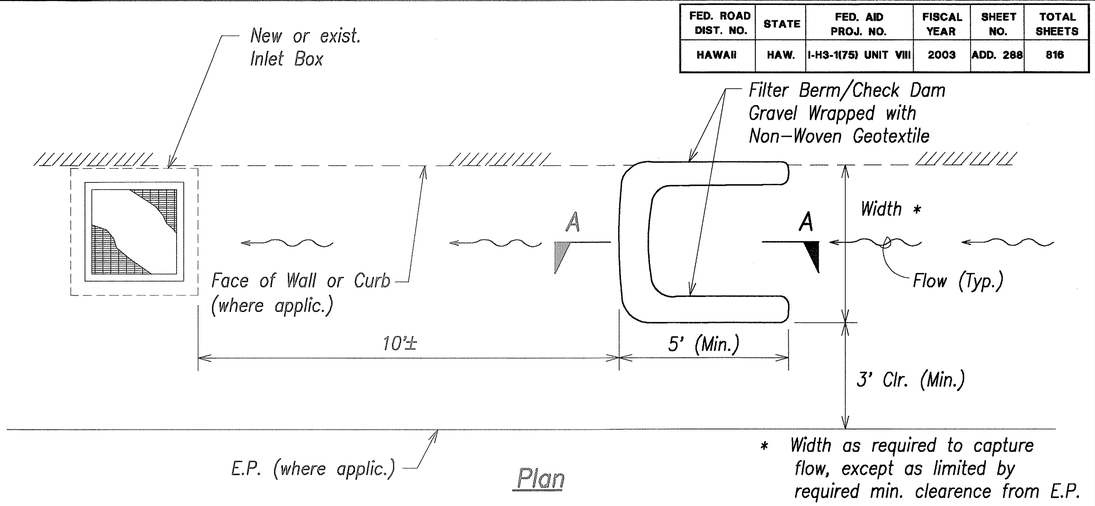
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 288	816

Best Management Practices
Temporary Erosion Control Notes

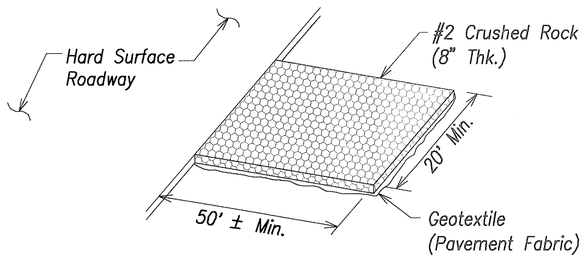
1. Follow Sequence of Operation as Recommended on Pages 23 and 24 of The "Rules Relating to Soil Erosion Standards and Guidelines", Department of Planning and Permitting, City and County of Honolulu.
2. The Contractor shall minimize the amount of land to be exposed at any one time.
3. Immediately after final grades are established for all exposed or graded areas, the Contractor shall grass (common bermuda grass, star grass, rye grass, Italian rye grass, or cereal grass seeds at the rate of 125 pounds per acre), hydromulch per Section 209 – Water Pollution and Erosion Control, or apply other temporary or permanent erosion control measures as approved by the Engineer.
4. (5) Graded areas that are not at final grade and are expected to be exposed for more than 14 days, shall be mulched (at the rate of 2000 pounds per acre) in order to prevent erosion and silt runoff. In lieu of mulching, the Contractor may apply other temporary erosion controls as approved by the Engineer.
5. The Contractor shall provide a stabilized construction entrance consisting of 8" thick #2 crushed rock for ingress and egress.
6. Silt fencing may be used at selected locations, as designated by the Engineer.
7. Inlet protection devices shall be installed at all drain inlets and catch basins.
8. The above procedure for erosion and sediment control may be revised by the Contractor to conform to the Contractor's grading operation procedure, however any revisions to the above shall be submitted by the Contractor to the Department of Planning and Permitting's Chief Engineer for approval.

Dust and Debris Notes:

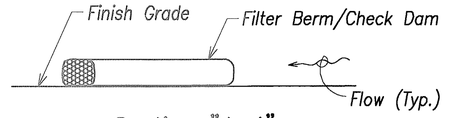
1. The Contractor shall supplement dust mitigation measures with dust screens as needed to control nuisance dust. Dust screens shall meet the latest Uniform Building Code (UBC) requirements. The Contractor shall submit drawings and calculations, stamped by a licensed structural engineer registered in the State of Hawaii, to the Engineer for approval.
2. The Contractor shall take the necessary precautions and install barriers, screens, etc. to prevent construction debris from falling from the viaduct and bridges. The Contractor shall submit drawings and calculations, stamped by a licensed structural engineer registered in the State of Hawaii, to the Engineer for approval.
3. The Contractor shall take the necessary precautions to minimize the potential for rockfalls and slides from the existing slopes. The Contractor shall submit drawings and calculations, stamped by a licensed structural engineer registered in the State of Hawaii, and by a licensed civil engineer specializing in goetechnical engineering and registered in the State of Hawaii, to the Engineer for approval.



Plan

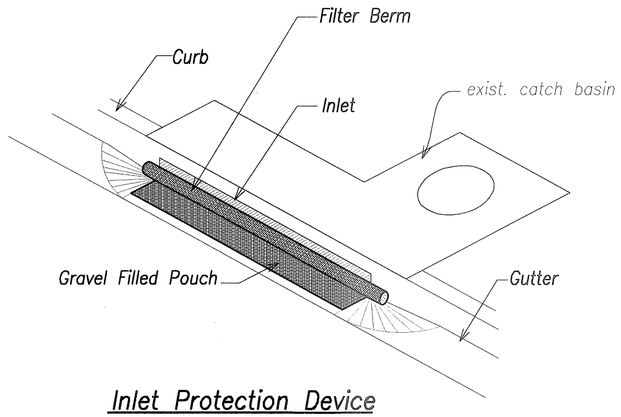


Stabilized Construction Access
Scale: Not To Scale



Section "A–A"

Filter Berm/Check Dam
Scale: Not To Scale



Inlet Protection Device
Scale: Not To Scale

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE 4/30/05 EXPIRATION DATE OF THE LICENSE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL

NOTES AND DETAILS 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale Date: Mar. 31, 2003

SHEET No. AC16.1 OF 350 SHEETS

DATE	REVISION
10/16/03	(5) Revised Note 4.

RMTC JOB NO.: 1-19369-OE

ADD. 288

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	289	816

Silt Fence Notes:

1. Filter fabric shall be approved and installed in combination with a support net of polyester netting or approved equal. The filter fabric shall be a minimum of 36-inches wide and the support net a minimum of 30 inches.

2. If Silt Fence is obtained from Manufacturer as a package (i.e. fabric attached to posts) the Manufacturer's installation instructions shall be adhered to.

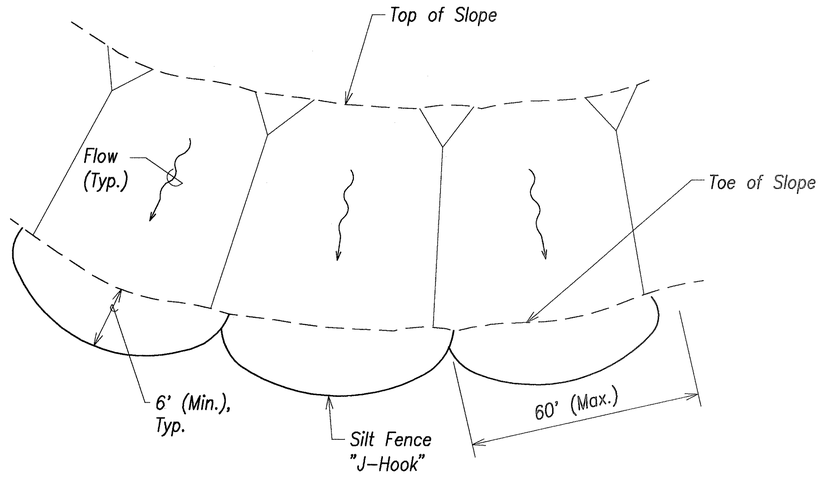
3. Posts shall be metal, wherever possible. Cross section of post will be substantial enough to support a loaded silt fence without bending. Post spacing shall be 4', depending on post size. End of posts shall be capped if it poses an impalement danger.

4. Silt Fences placed at the toe of a slope shall be set at least 6 feet from the toe of slope to maximize ponding volume.

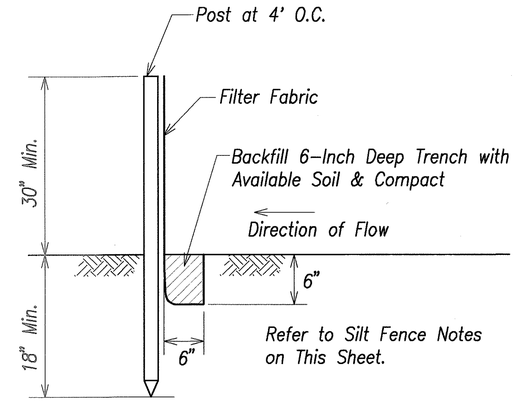
5. Install Silt Fence in short curved sections referred to as "J-Hooks" (60-foot maximum length) and placed where ponding of sediment-laden water can occur. Position the J-Hooks so that each end of the Silt Fence curves uphill to catch runoff from the drainage area immediately upslope. Lay out the Silt Fence in a series of overlapping J-Hooks such that the total length of slope is protected.

6. Inspect Silt Fence weekly, and after each significant storm (1 inch in 24 hours or greater). Make any required repairs immediately, and to the satisfaction of the Engineer.

7. Remove accumulated sediment when it reaches 1/3 the height of the Silt Fence or 9 inches maximum, whichever is less, or as directed by the Engineer. Deposit removed sediment in an area that will not contribute sediment off-site and where it will be permanently stabilized.



Silt Fence "J-Hook" Layout Plan
Scale: Not To Scale



Silt Fence Detail
Scale: Not To Scale

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE — EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL

NOTES AND DETAILS 2

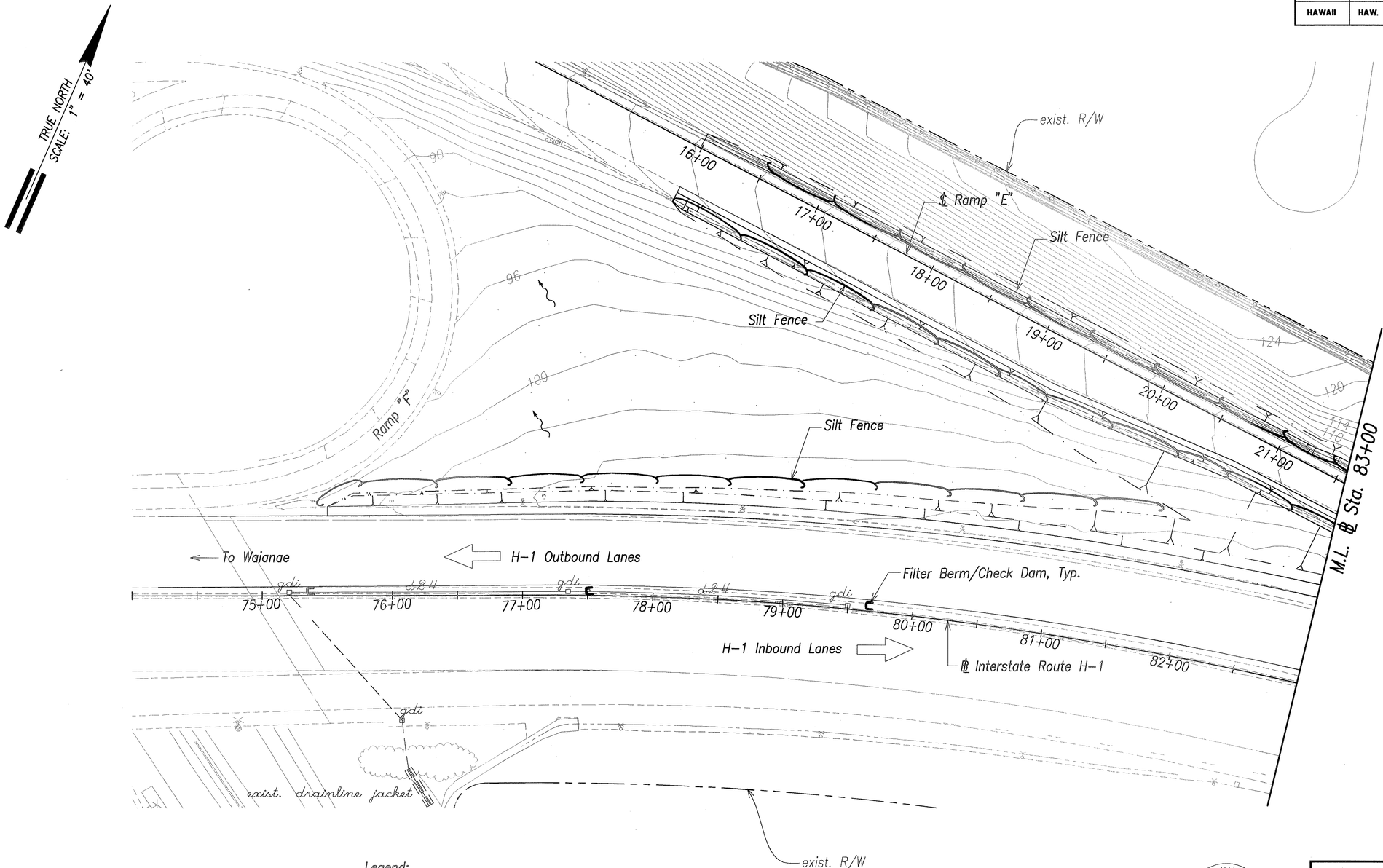
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: Not To Scale — Date: Mar. 31, 2003

SHEET No. AC16.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	290	816



Legend:

- gdi — Exist. Grate Drain Inlet
- d24 — Exist. Drain Line/Size
- Silt Fence
- Filter Berm/Check Dam
- Flow Direction

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN

℄ STA. 74+00 TO ℄ STA. 83+00

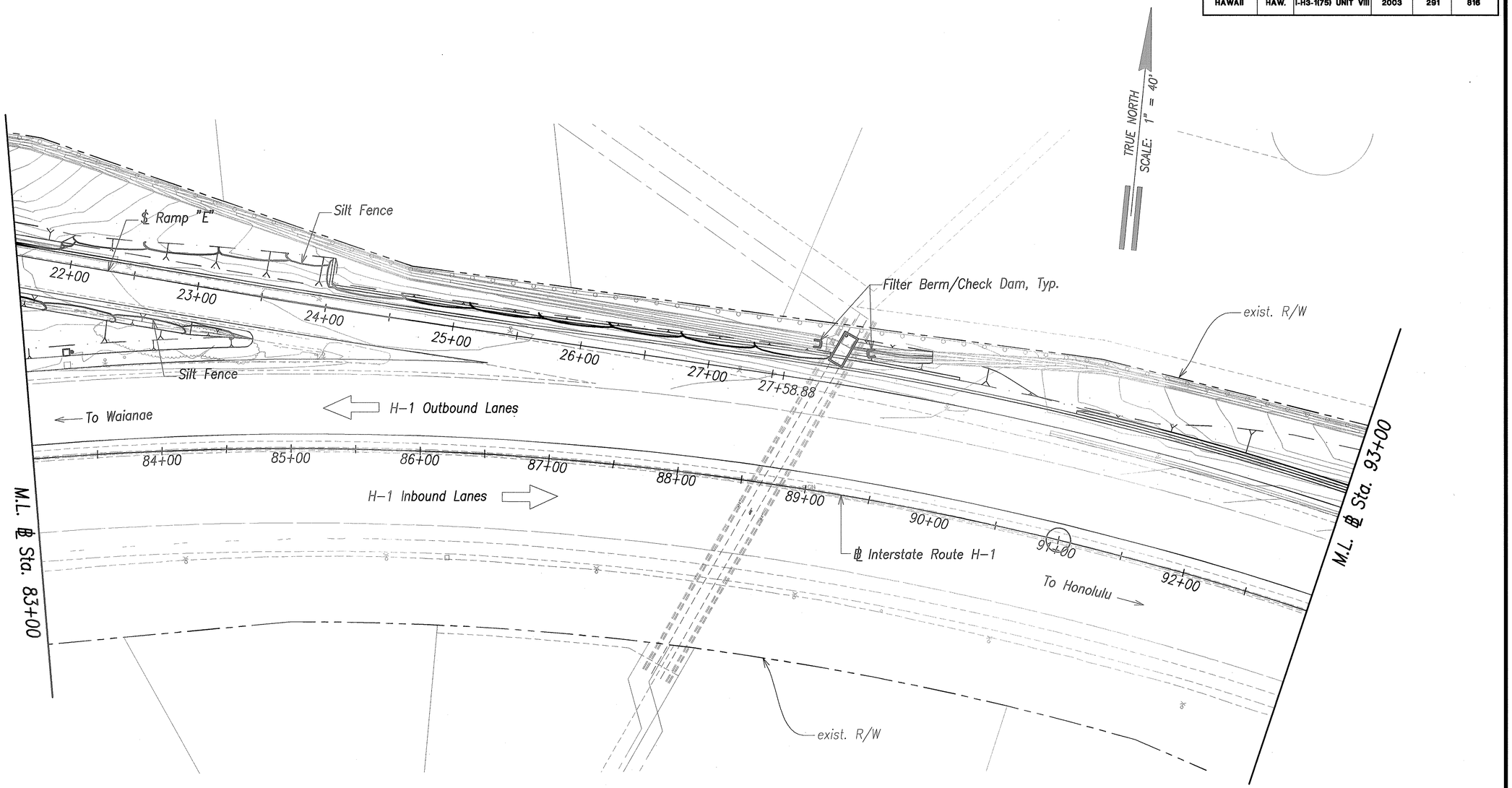
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC16.3 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	291	816



Legend:

- gdi — Exist. Grate Drain Inlet
- d24 — Exist. Drain Line/Size
- Silt Fence
- Filter Berm/Check Dam
- Flow Direction

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN

℄ STA. 83+00 TO ℄ STA. 93+00

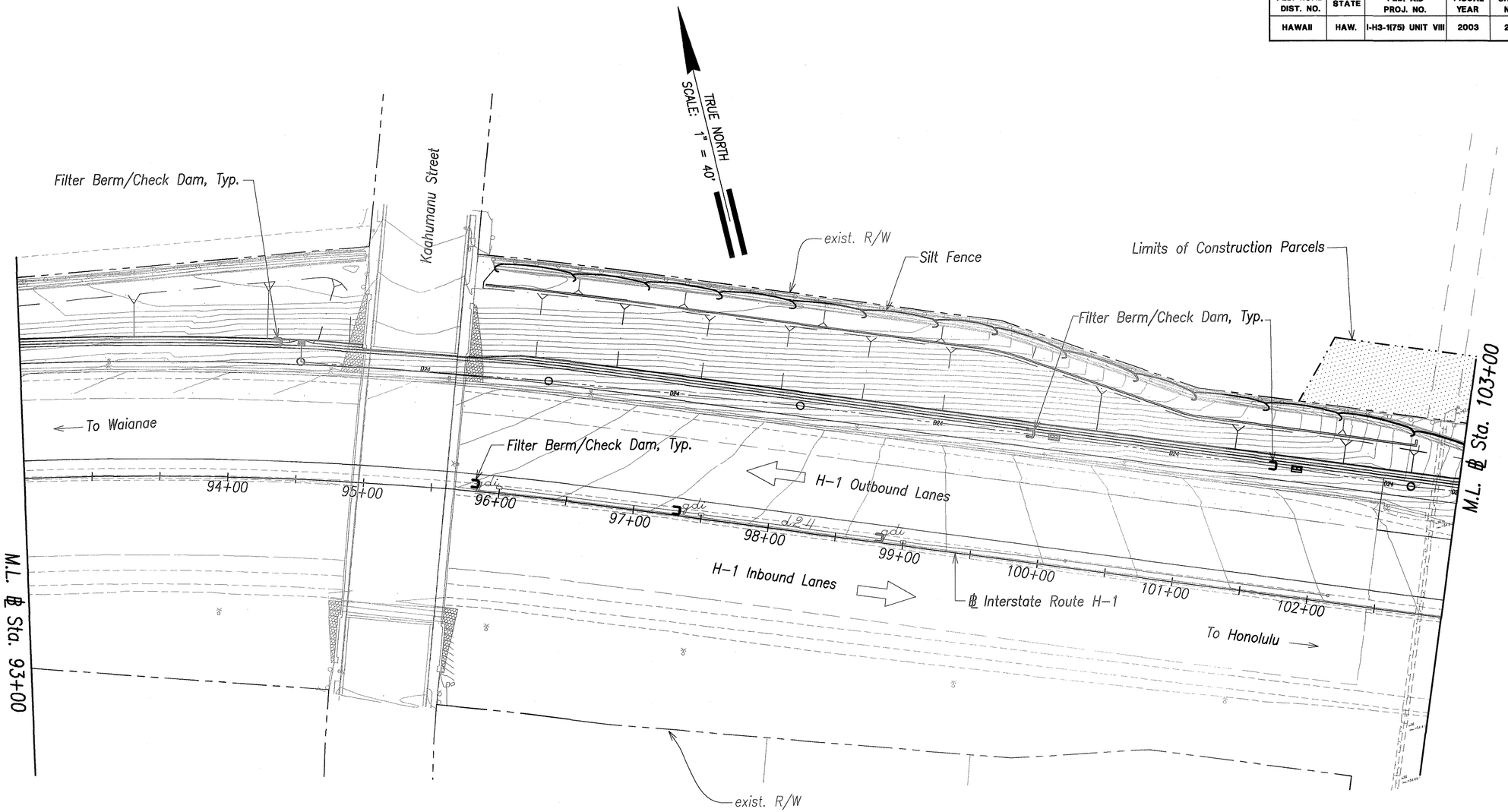
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC16.4 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	292	816



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

Legend:

- gdi — Exist. Grate Drain Inlet
- d24 — Exist. Drain Line/Size
- Silt Fence
- Filter Berm/Check Dam
- Flow Direction
- Limits of Construction Parcels

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN

℄ STA. 93+00 TO ℄ STA. 103+00

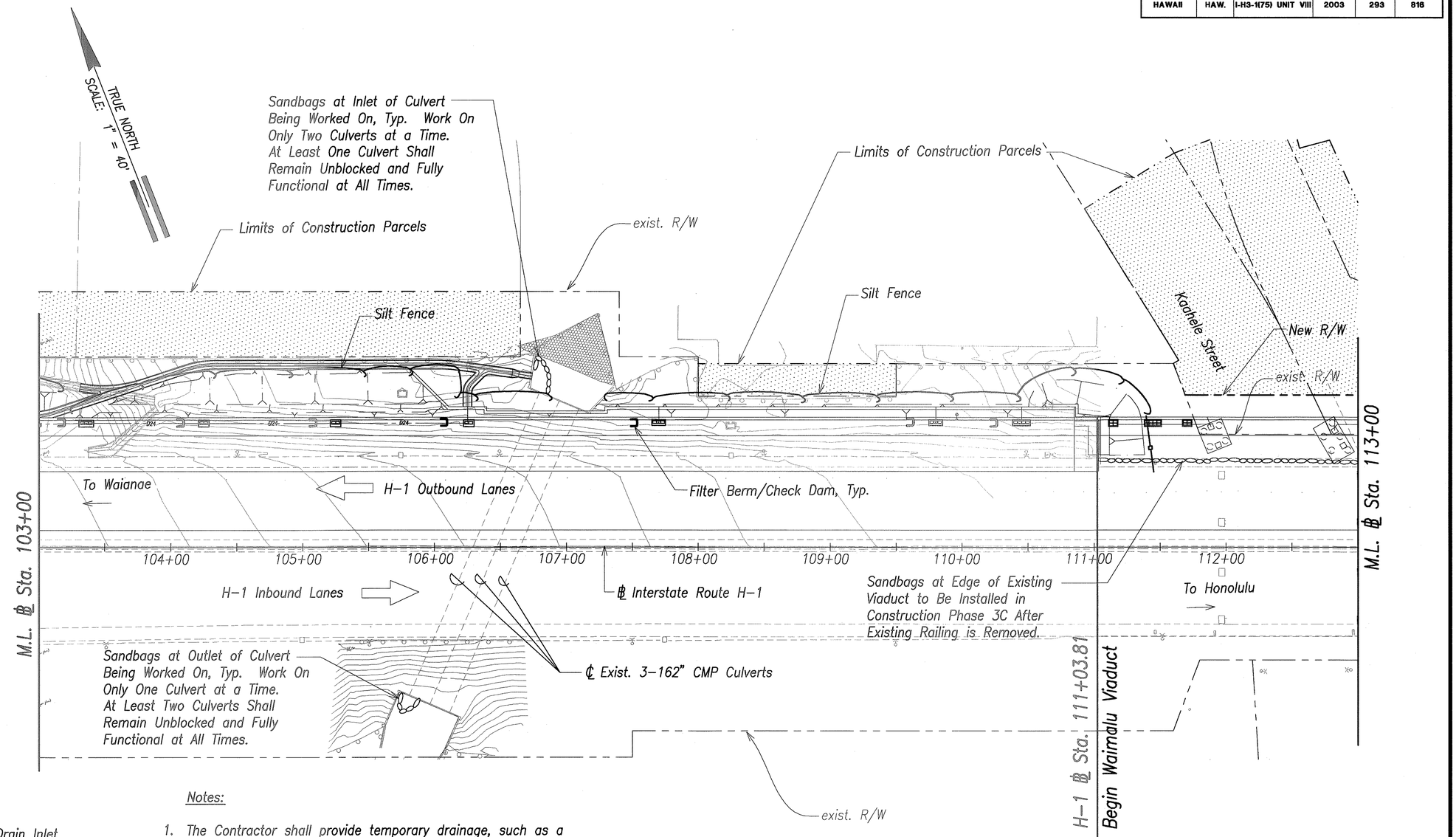
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC16.5 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	293	816



Legend:

- gdi — Exist. Grate Drain Inlet
- d24 — Exist. Drain Line/Sze
- Silt Fence
- Filter Berm/Check Dam
- Flow Direction
- Sandbag Barriers
- Limits Of Construction Parcels

Notes:

1. The Contractor shall provide temporary drainage, such as a flex hose, from the exist. drain lines along the viaduct after it is disconnected from the column in Construction Phase 3C (see Sht. AC13.2), and to the satisfaction of the Engineer.
2. The Contractor shall adequately secure the temporary drainage to the viaduct structure as necessary to maintain proper operation and to prevent the possibility of hazards/damages to areas below, and to the satisfaction of the Engineer.
3. Temporary drainage shall discharge at the base of existing column. The Contractor shall take necessary measures to prevent scouring and damages of exist. facilities.

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN

℄ STA. 103+00 TO ℄ STA. 113+00

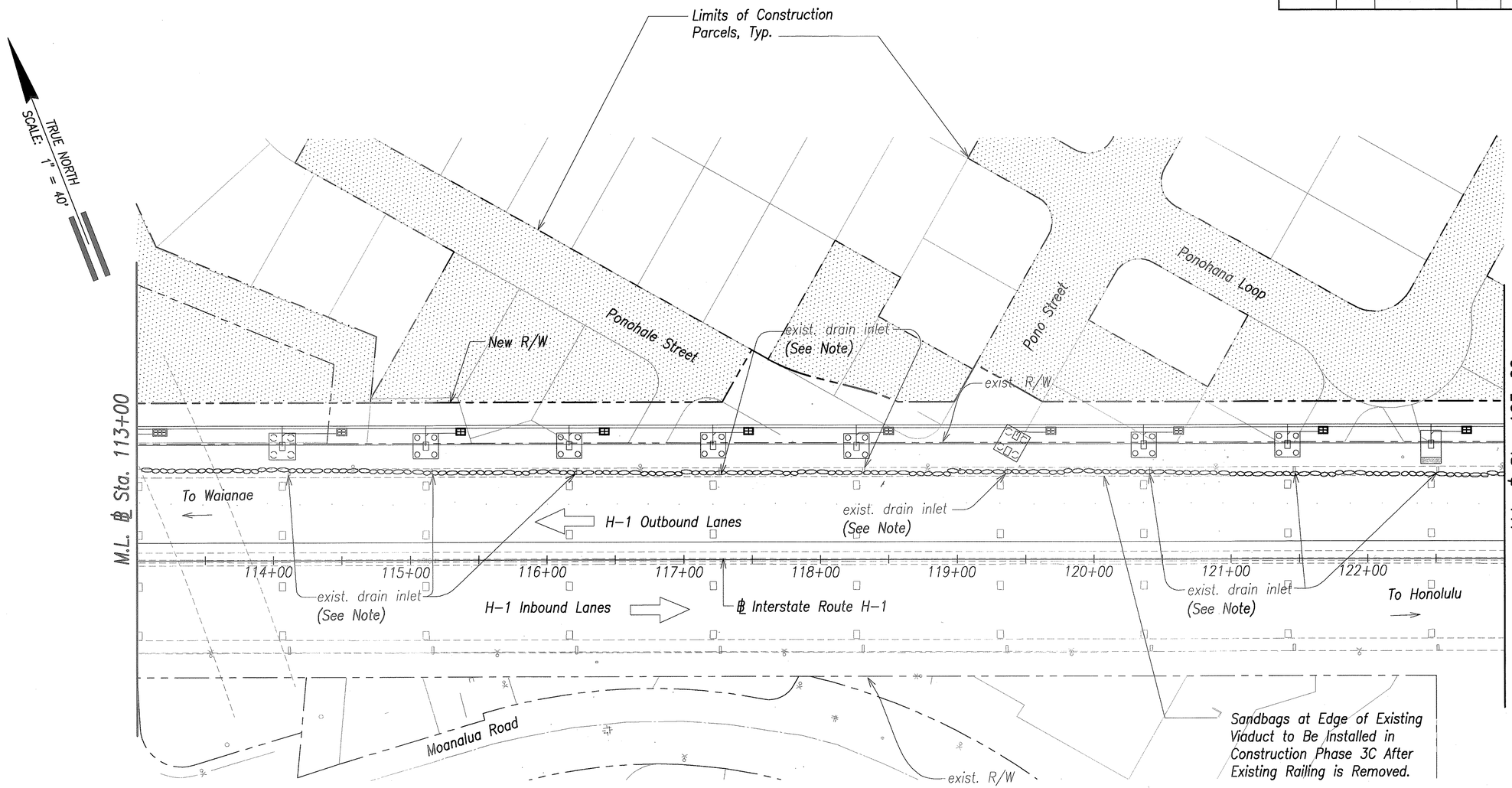
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC16.6 OF 350 SHEETS

RMTC JOB NO.: 1-19.369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	294	816



Legend:

- gdi — Exist. Grate Drain Inlet
- d24 — Exist. Drain Line/Size
- Silt Fence
- Filter Berm/Check Dam
- Flow Direction
- Sandbag Barriers
- Limits Of Construction Parcels

Notes:

1. The Contractor shall provide temporary drainage, such as a flex hose, from the exist. drain lines along the viaduct after it is disconnected from the column in Construction Phase 3C (see Sht. AC13.2), and to the satisfaction of the Engineer.
2. The Contractor shall adequately secure the temporary drainage to the viaduct structure as necessary to maintain proper operation and to prevent the possibility of hazards/damages to areas below, and to the satisfaction of the Engineer.
3. Temporary drainage shall discharge at the base of existing column. The Contractor shall take necessary measures to prevent scouring and damages of exist. facilities.

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN

℄ STA. 113+00 TO ℄ STA. 123+00

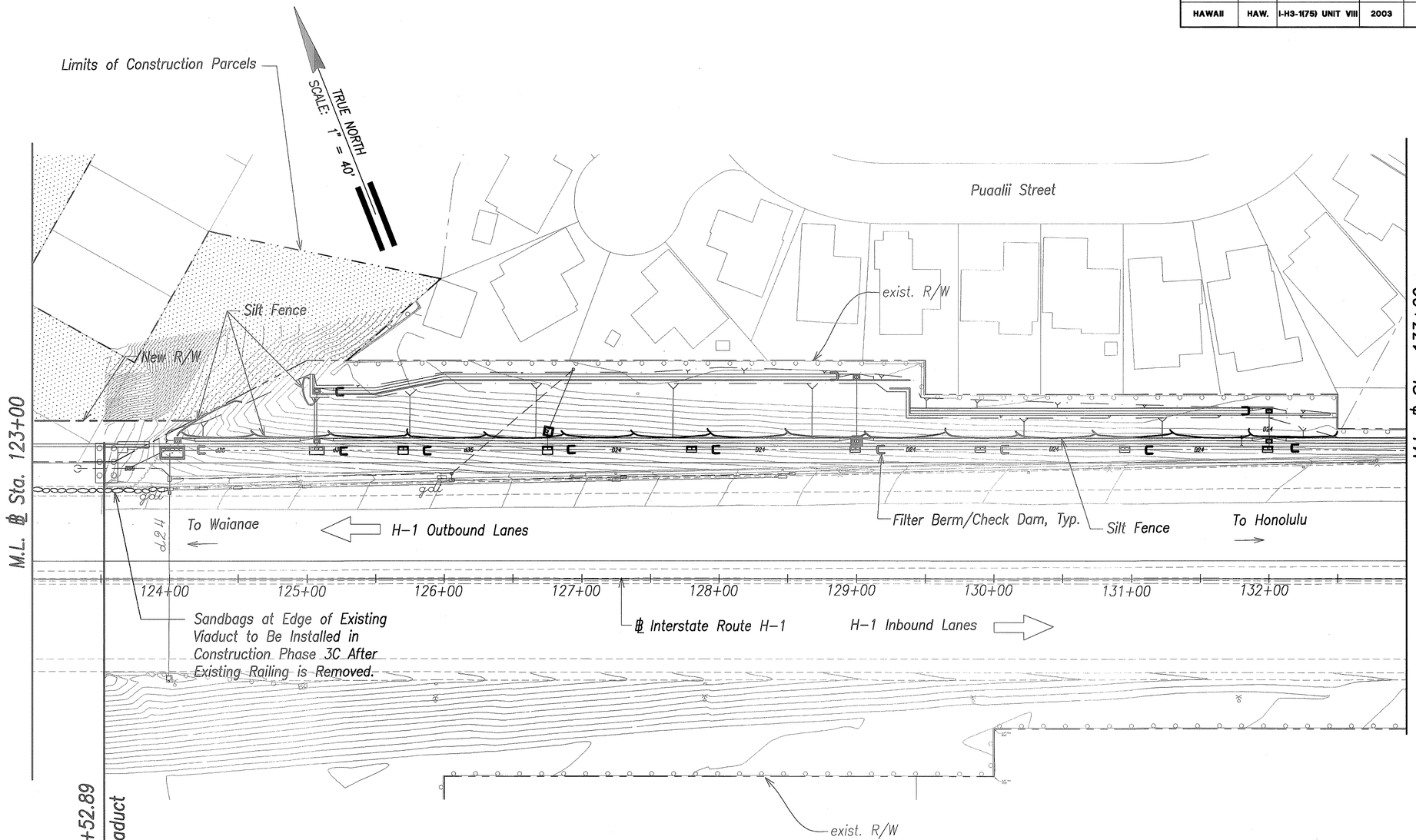
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC16.7 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	295	816



Legend:

- gdi — Exist. Grate Drain Inlet
- d24 — Exist. Drain Line/Size
- Silt Fence
- Filter Berm/Check Dam
- Flow Direction
- Sandbag Barriers
- Limits Of Construction Parcels

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN

℄ STA. 123+00 TO ℄ STA. 133+00

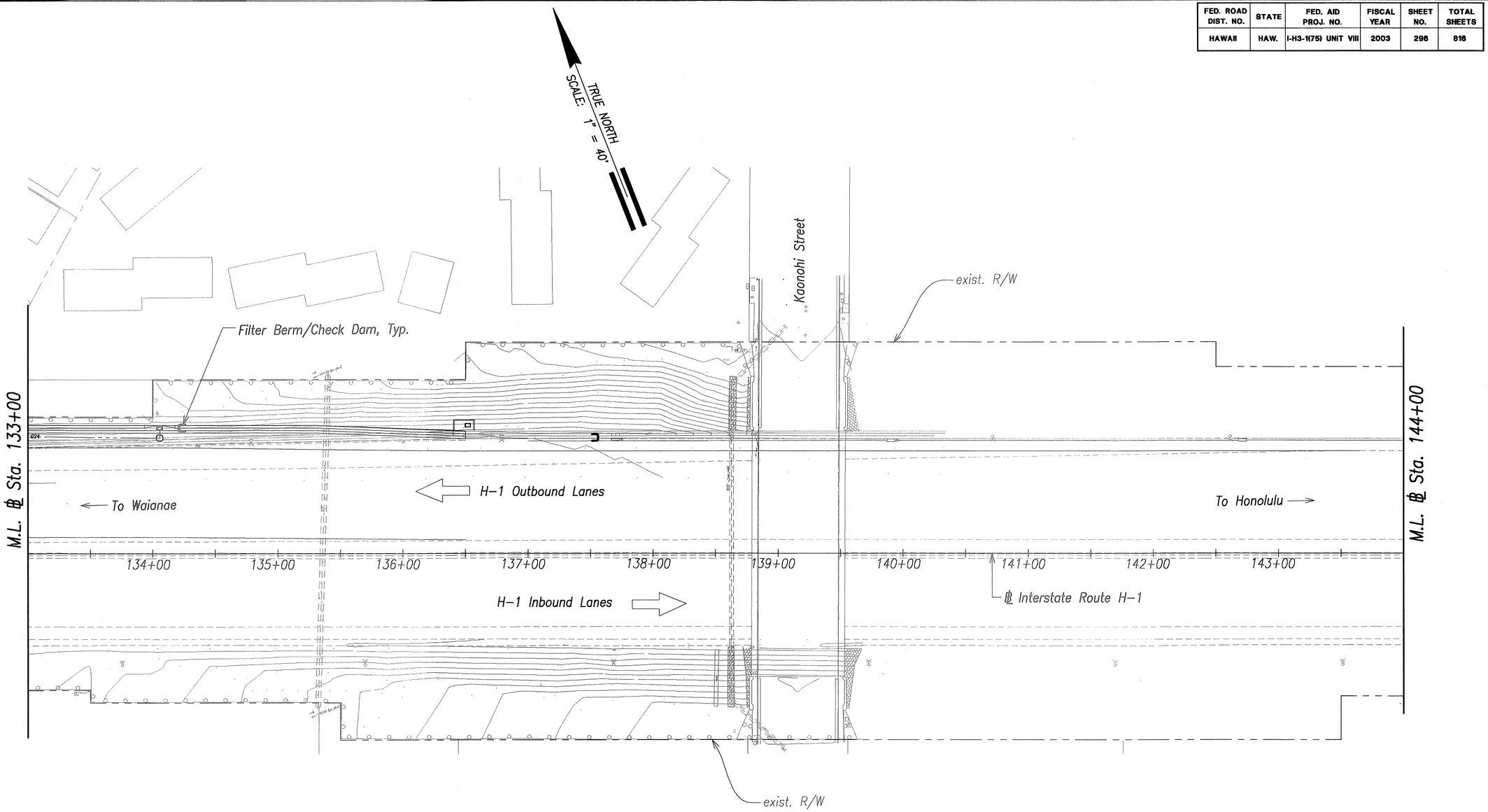
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC16.8 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	296	816



Legend:

- gdi — Exist. Grate Drain Inlet
- d24 — Exist. Drain Line/Size
- Silt Fence
- Filter Berm/Check Dam
- Flow Direction

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN

℄ STA. 133+00 TO ℄ STA. 144+00

INTERSTATE ROUTE H–3
H–3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

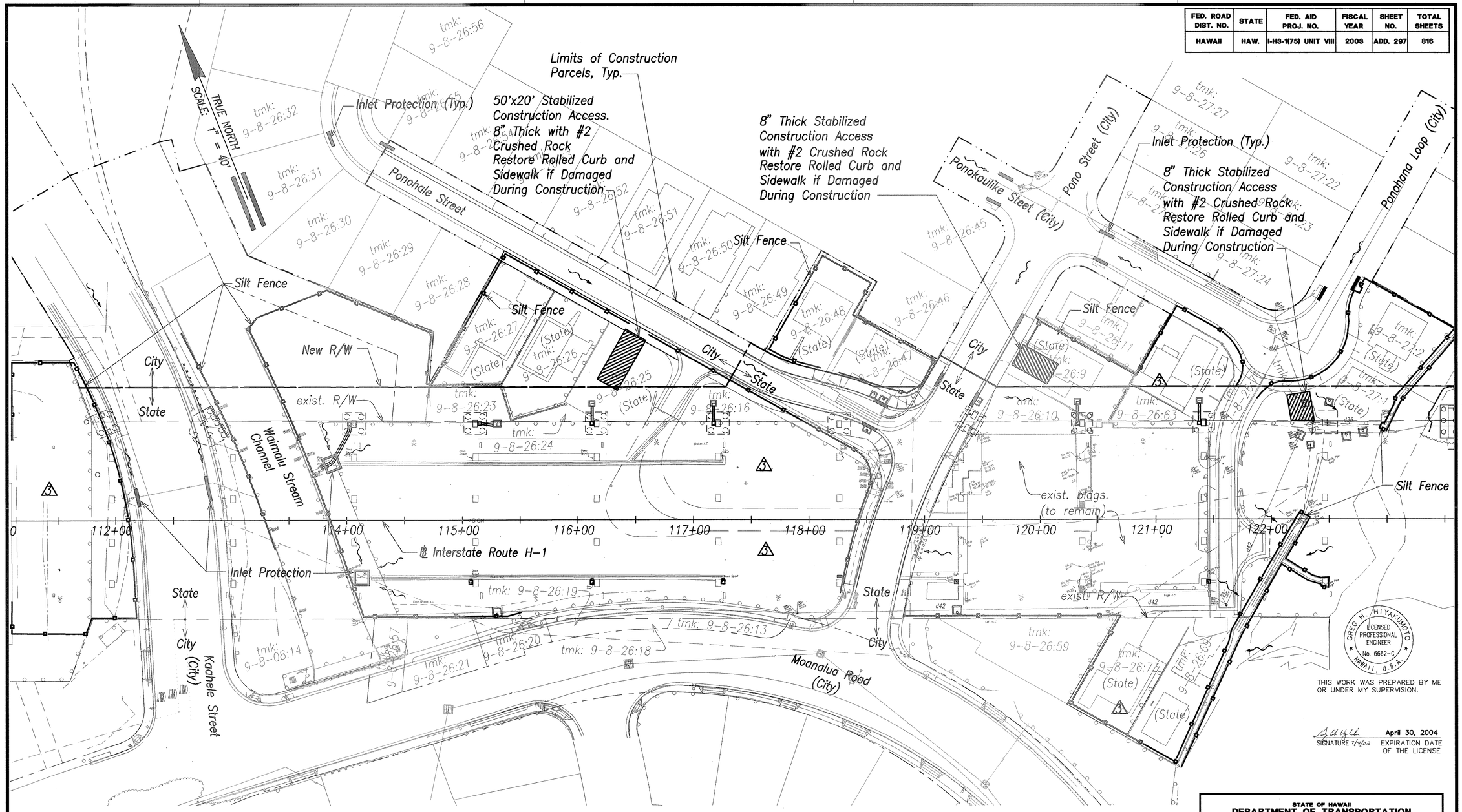
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC16.9 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 297	816



SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

Notes:

1. For Best Management Practices Temporary Erosion Control Notes, see Sheet AC16.1.
2. For Dust and Debris Notes, see Sheet AC16.1.
3. For Silt Fence Notes, see Sheet AC16.2.

Legend:

- gdi — Exist. Grate Drain Inlet
- d42 — Exist. Drain Line/Size
- Silt Fence
- or — Inlet Protection
- Flow Direction

Graphic Scale

1" = 40' 40' 20' 0 40' 80'

Scale in Feet

DATE	REVISION
6/20/03	3 Deleted Note and Dewatered Effluent Storage Areas.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/1/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EROSION CONTROL PLAN
BELOW VIADUCT

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

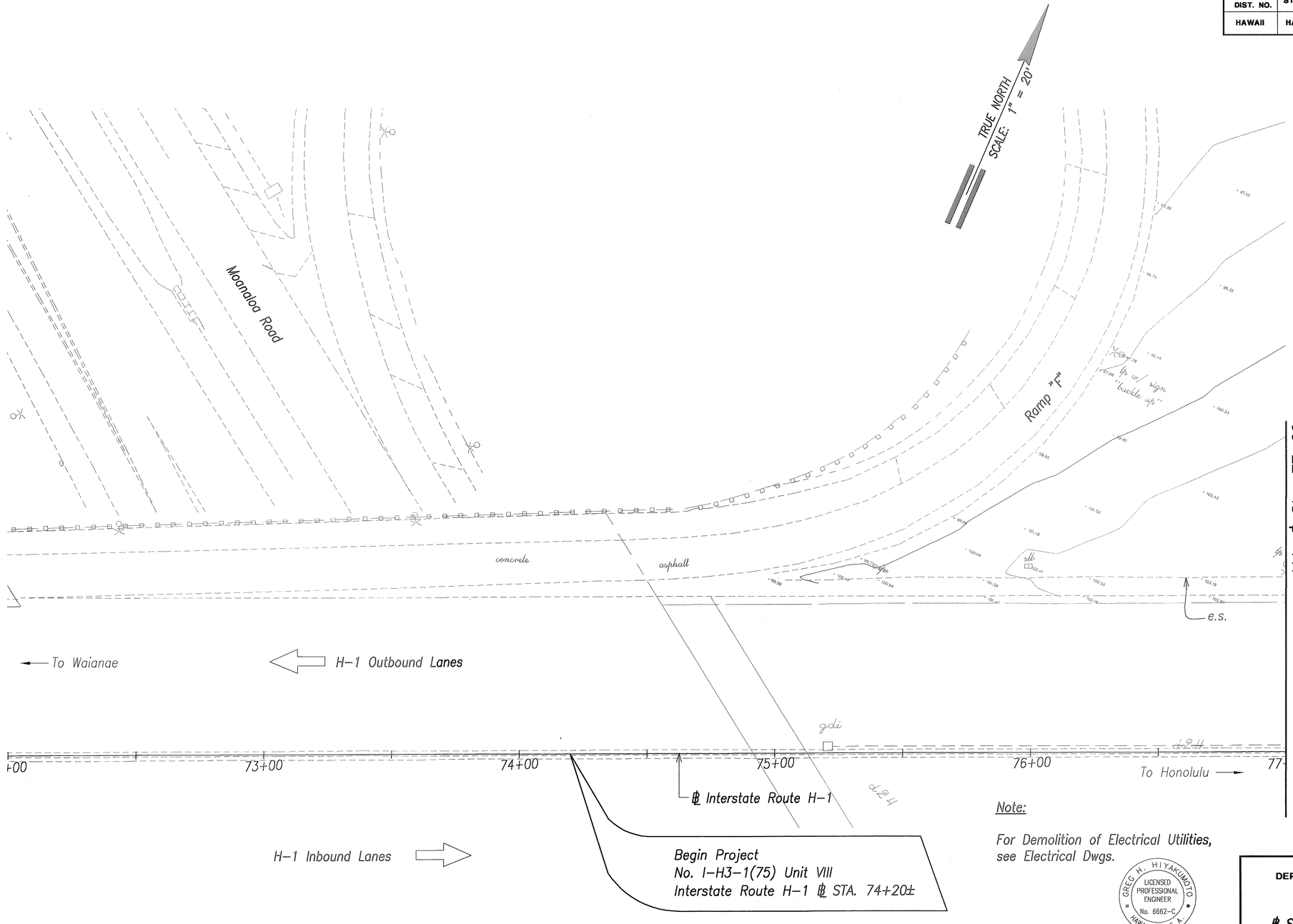
Scale: 1"=40' Date: Mar. 31, 2003

SHEET No. AC16.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 297

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	298	816



Note:

For Demolition of Electrical Utilities, see Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 74+20± TO ℄ Sta. 77+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

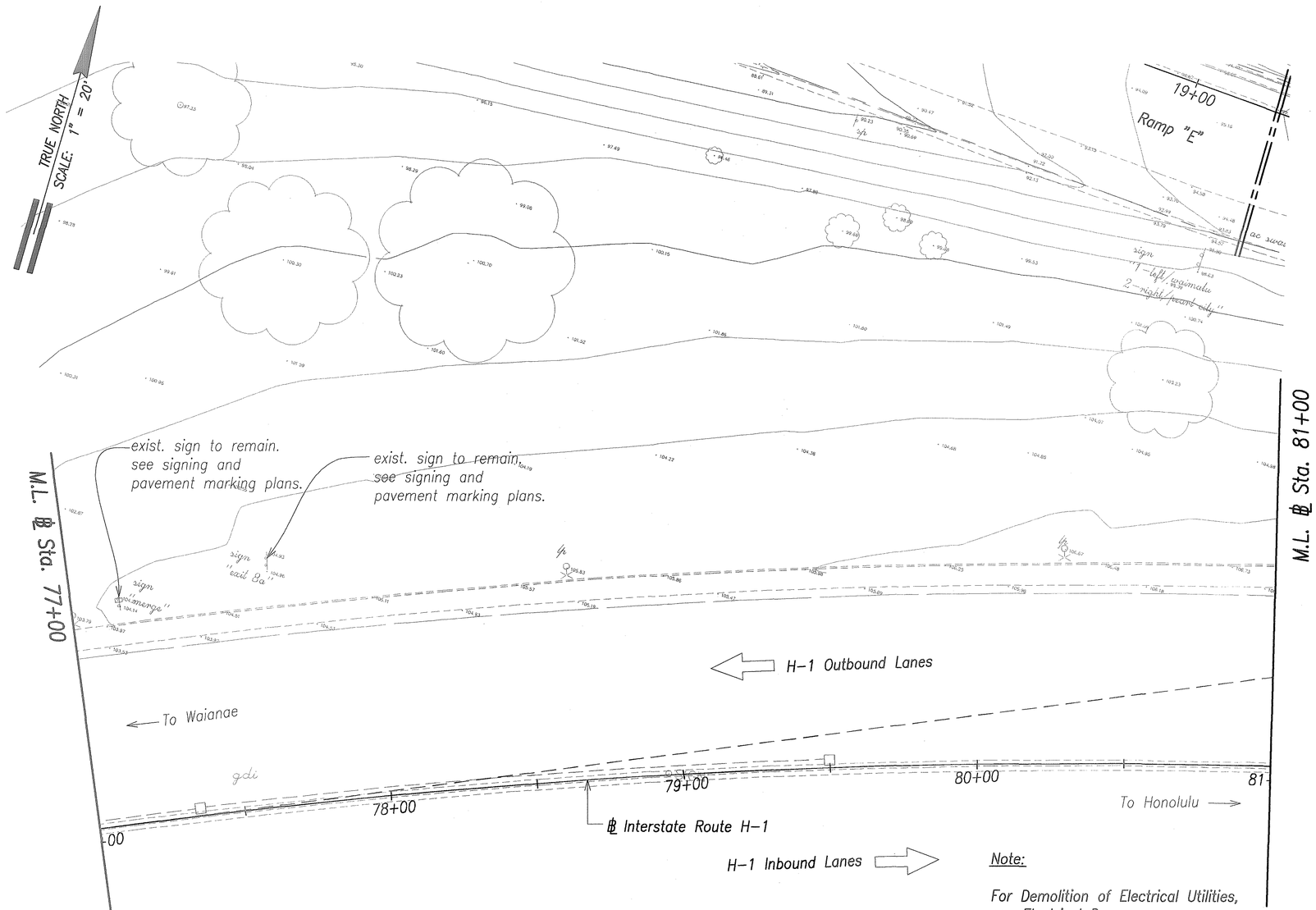
SHEET No. AC17.1 OF 350 SHEETS

298

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

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	299	816



Note:

For Demolition of Electrical Utilities, see Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 77+00 TO ℄ Sta. 81+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

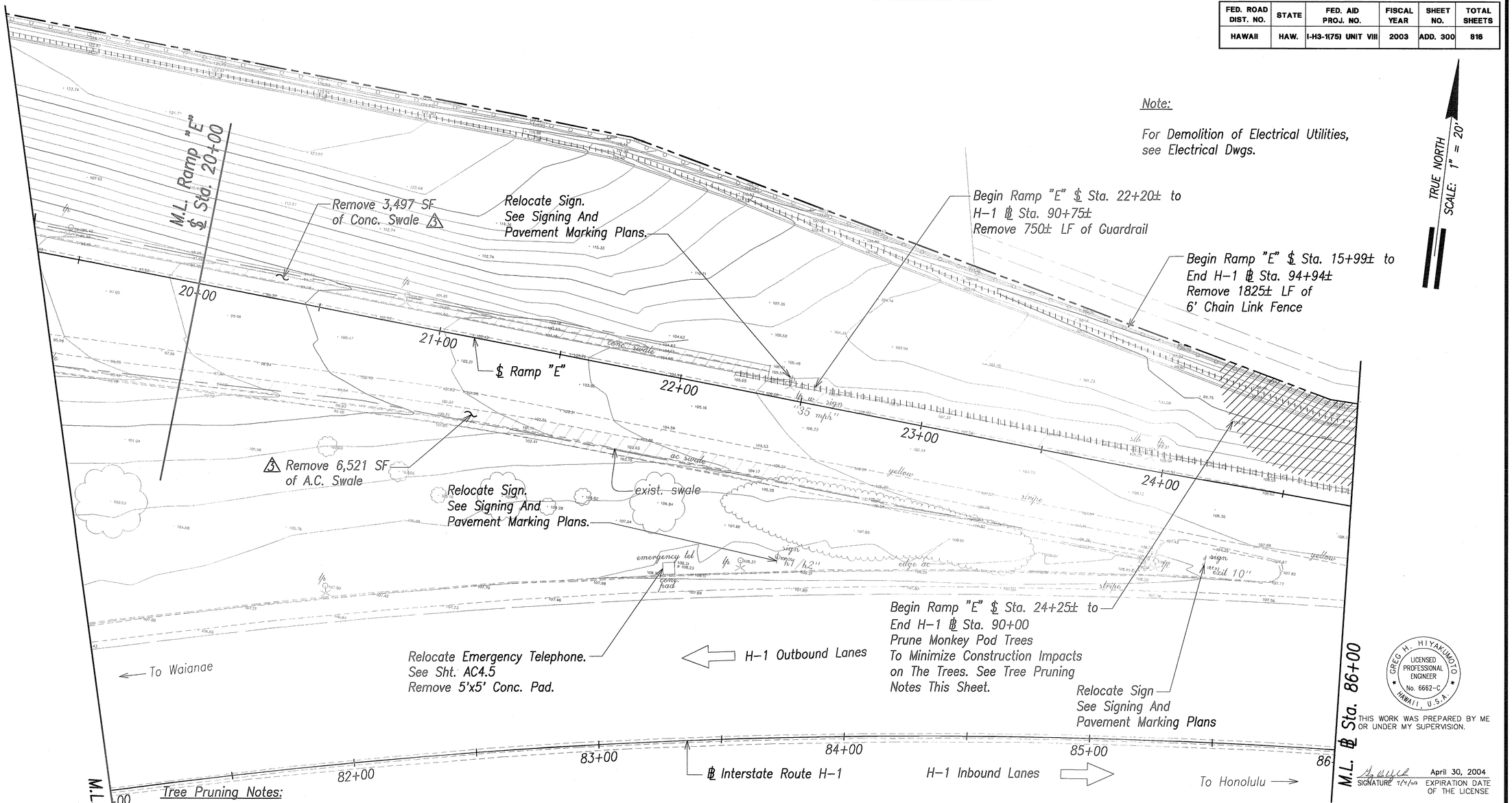
SHEET No. AC17.2 OF 350 SHEETS

ORIGINAL PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 300	816



Note:

For Demolition of Electrical Utilities, see Electrical Dwgs.

TRUE NORTH
SCALE: 1" = 20'

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

Tree Pruning Notes:

1. The Contractor shall retain the services of an arborist who has been certified for at least 5 years with experience in tree protection during tree pruning. The Engineer shall approve the selection of the certified arborist.

2. The arborist shall perform quality assurance duties during the contract period. The arborist shall ensure tree pruning work is performed in accordance with standards of the National Arborist Association and the International Society of Arboriculture; proper measures are taken to protect trees' canopies and root systems from damage from construction activity; when potentially damaging construction activity is performed that such activity is performed in a manner that will minimize damage to the tree; and trees are provided proper care and remain in good health during the demolition and construction period.

3. A certified tree worker under the supervision of a certified arborist shall perform the tree pruning work.

3 4. Trees shall be pruned as required by the SDOT and arborist.

Graphic Scale
1" = 20'
20' 10' 0 20' 40'
Scale in Feet

DATE	REVISION
6/20/03	3 Added Note and Callouts.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 81+00 TO ℄ Sta. 86+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

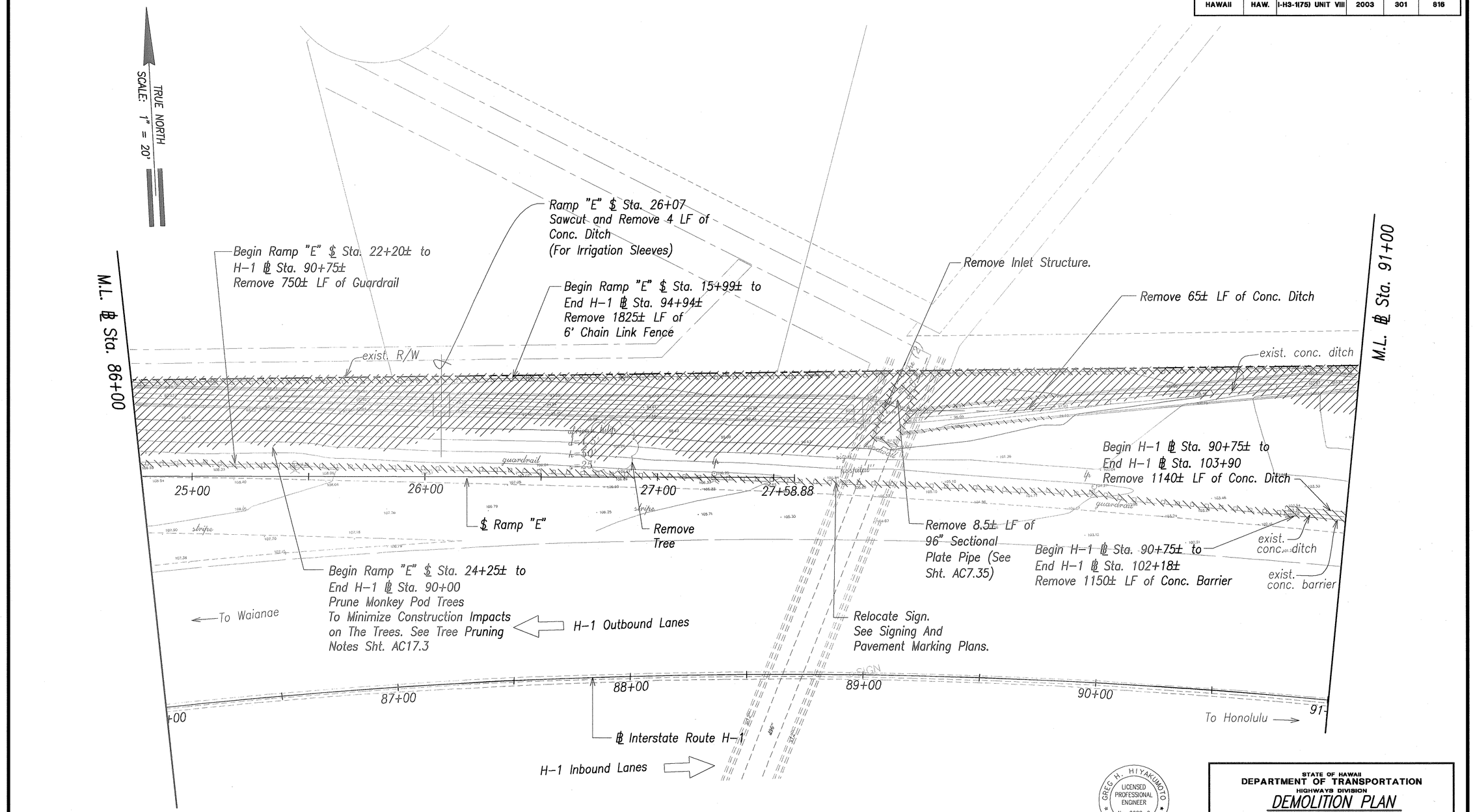
SHEET No. AC17.3 OF 350 SHEETS

ORIGINAL PLANS: SURVEY PLOTTED BY ____ DATE ____ DRAWN BY ____ TRACED BY ____ DESIGNED BY ____ QUANTITIES BY ____ CHECKED BY ____
NOTE BOOK No. ____

RMTC JOB NO.: 1-19369-0E

ADD. 300

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	301	816



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

Note:

For Demolition of Electrical Utilities, see Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 86+00 TO ℄ Sta. 91+00

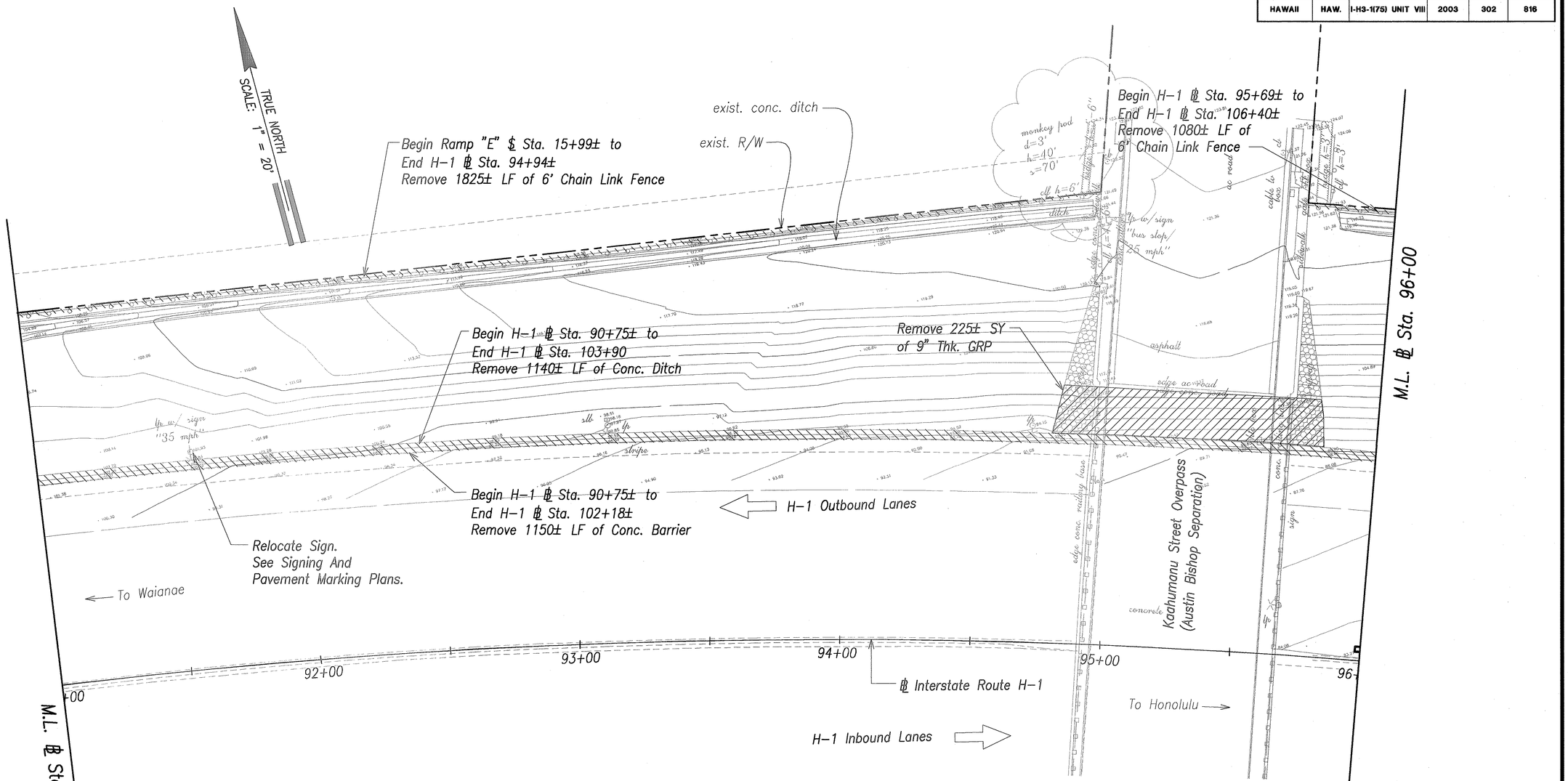
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.4 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	302	816



Note:

For Demolition of Electrical Utilities, see Electrical Dwgs.

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

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 91+00 TO ℄ Sta. 96+00

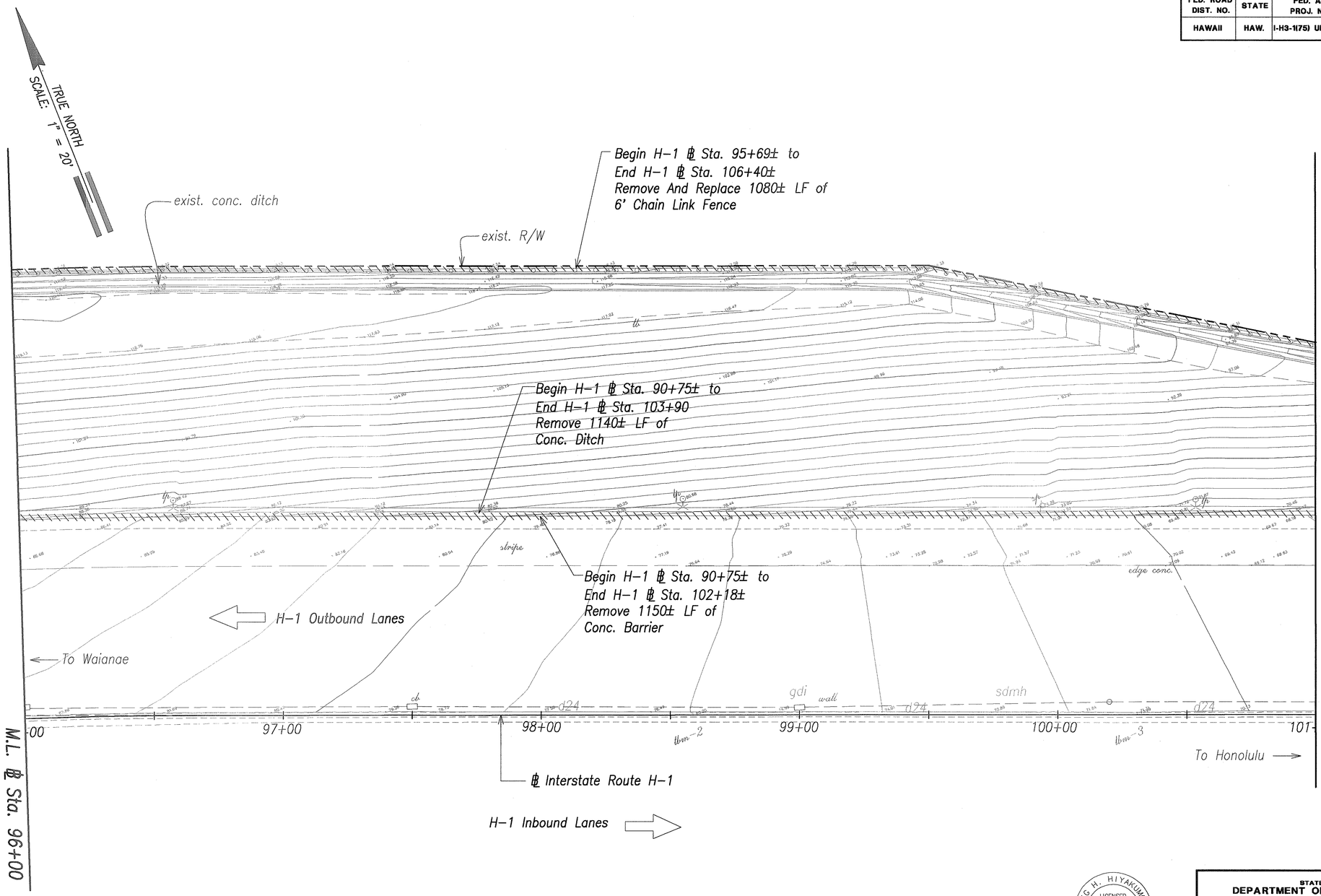
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.5 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	303	816



Note:

For Demolition of Electrical Utilities, see Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 96+00 TO ℄ Sta. 101+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

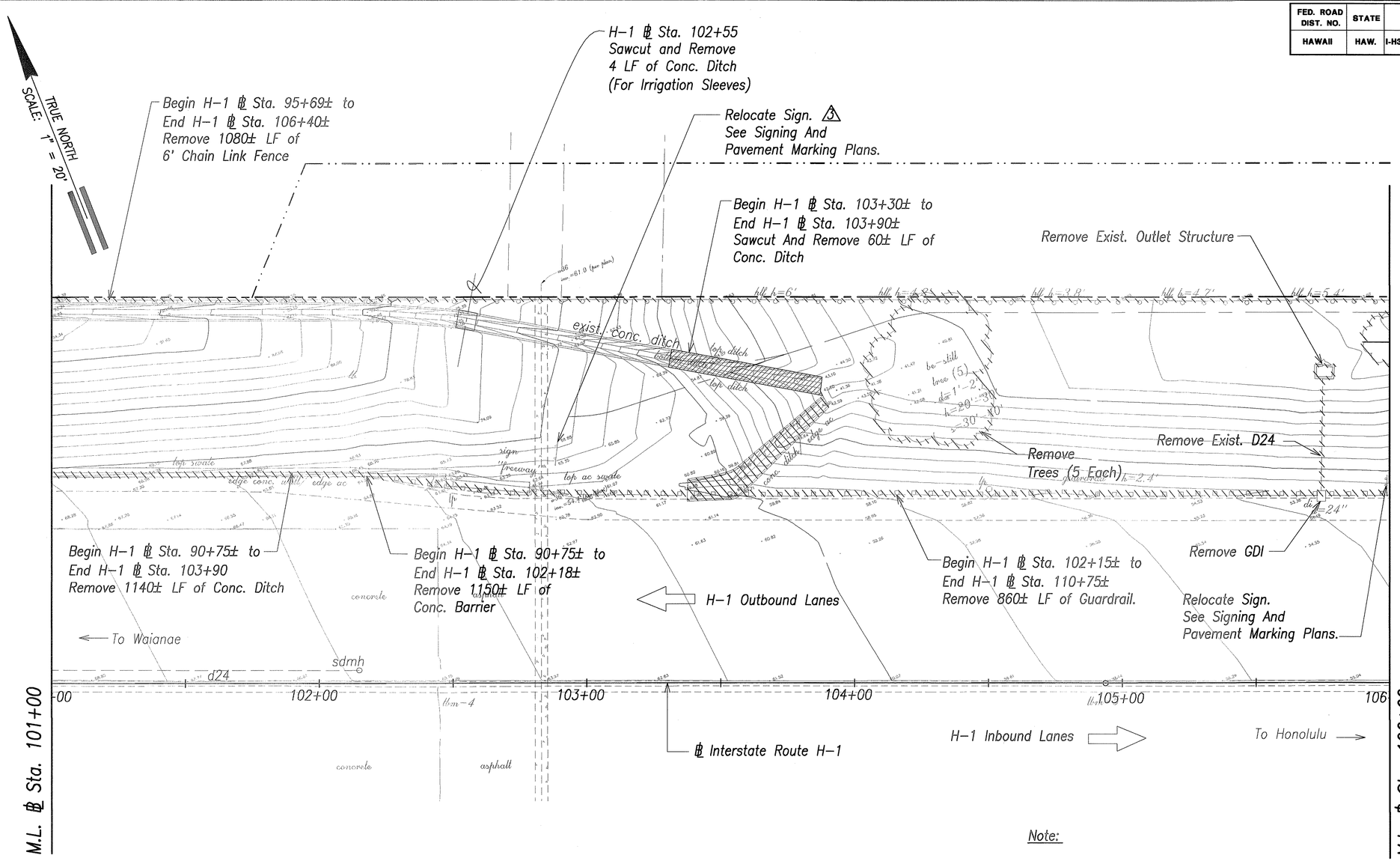
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.6 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 304	816



Note:

For Demolition of Electrical Utilities, see Electrical Dwgs.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE _____ April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Added Callout.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 101+00 TO ℄ Sta. 106+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

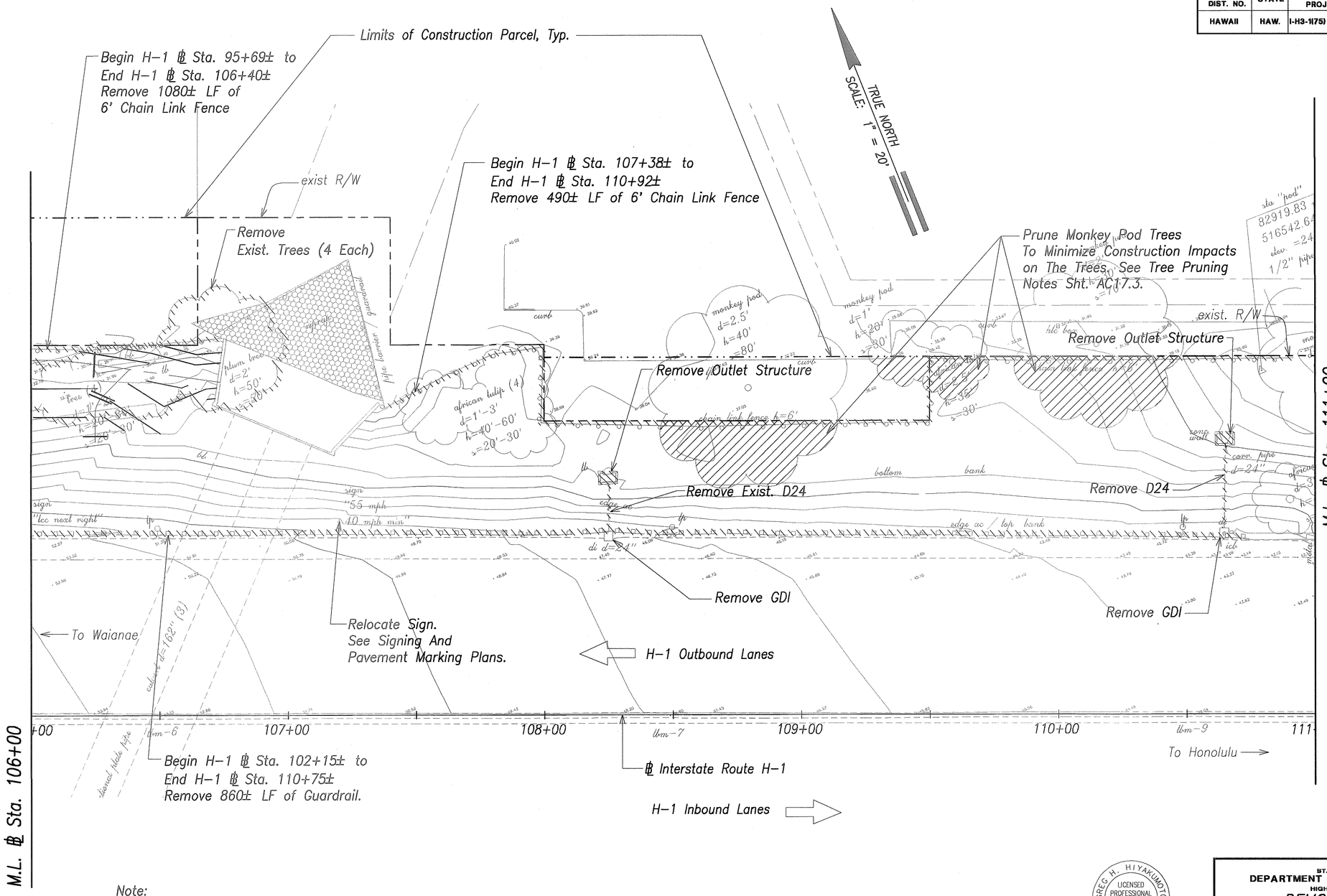
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.7 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 304

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	305	816



Note:

For Demolition of Electrical Utilities, see Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREGG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 106+00 TO ℄ Sta. 111+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

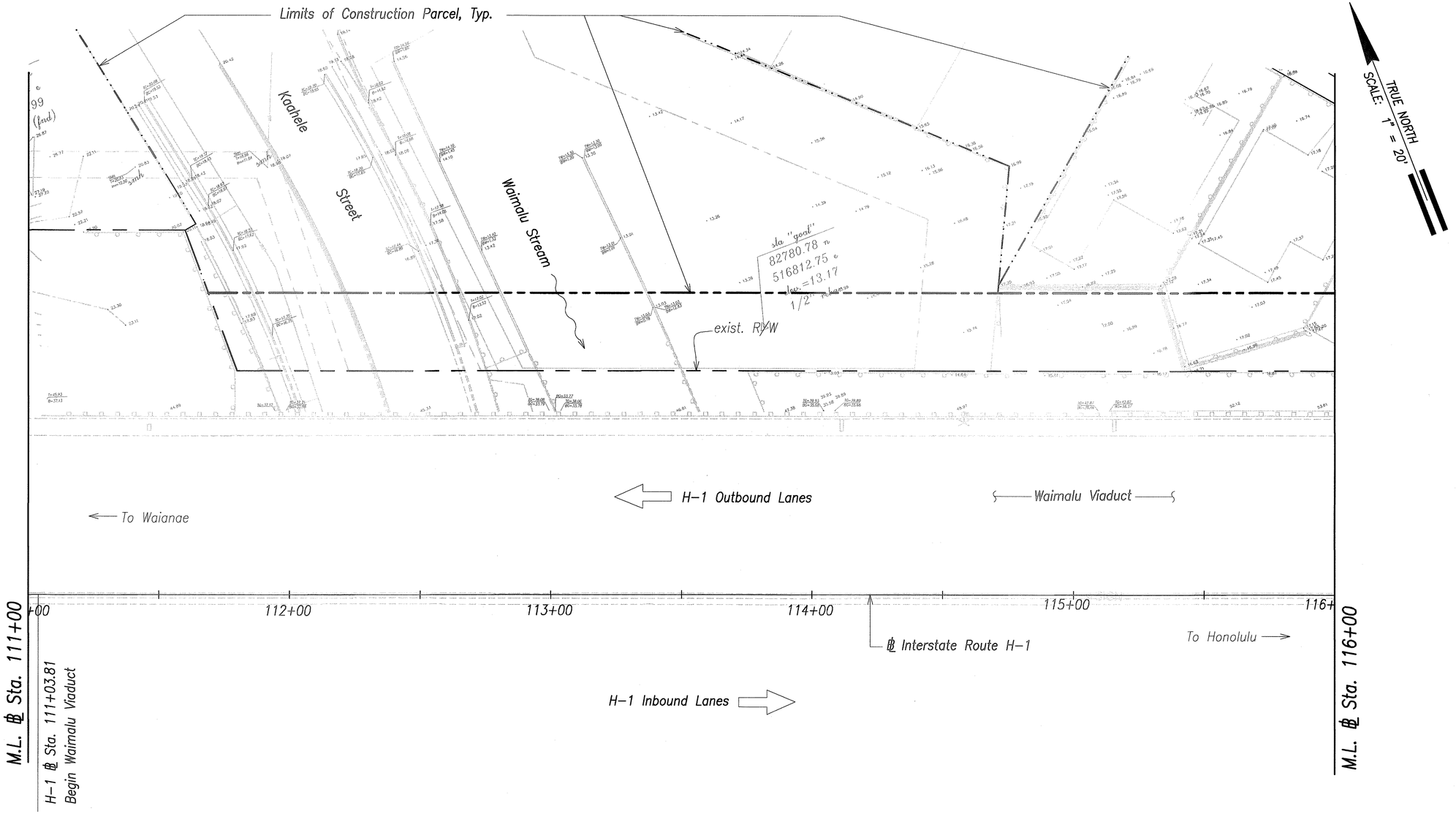
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.8 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	306	816



Notes:

1. For Demolition Along Waimalu Viaduct, see AS Dwgs.
2. For Demolition of Electrical Utilities, see Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 111+00 TO ℄ Sta. 116+00

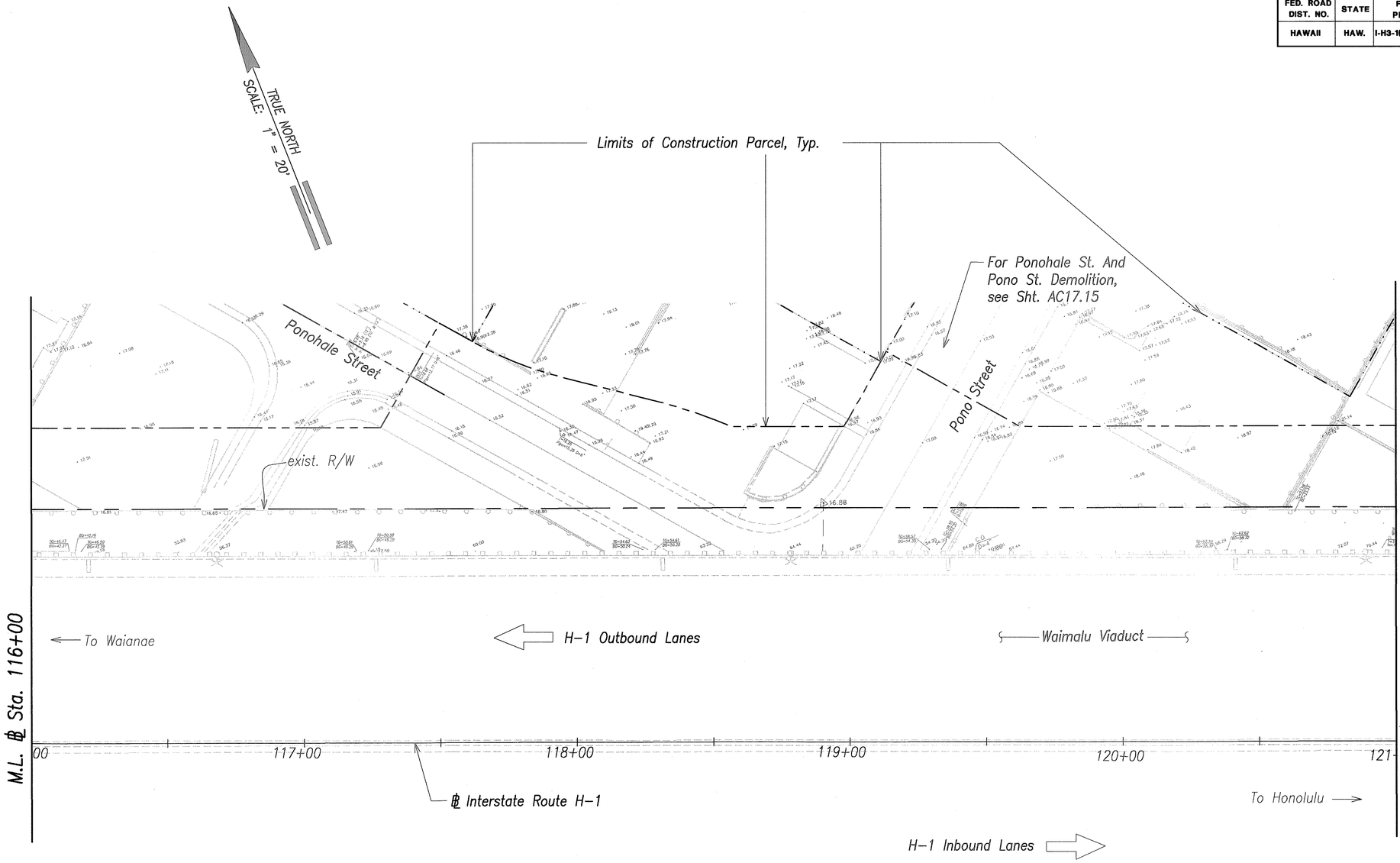
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.9 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	307	816



Notes:

1. For Demolition Along Waimalu Viaduct, see AS Dwgs.
2. For Demolition of Electrical Utilities, see Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

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

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 116+00 TO ℄ Sta. 121+00

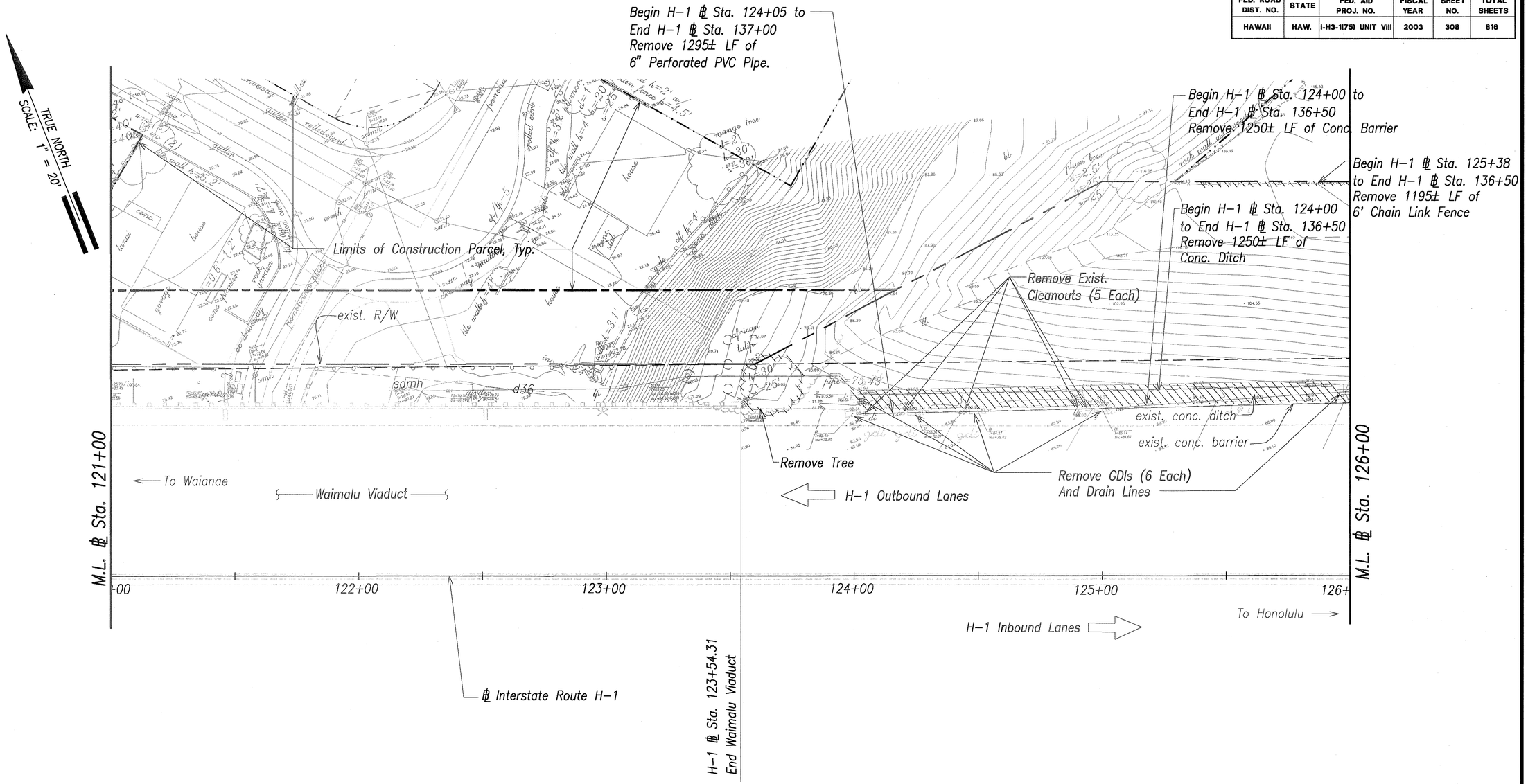
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	308	816



Note:

1. For Demolition Along Waimalu Viaduct, see AS Dwgs.
2. For Demolition of Electrical Utilities, see Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 121+00 TO ℄ Sta. 126+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

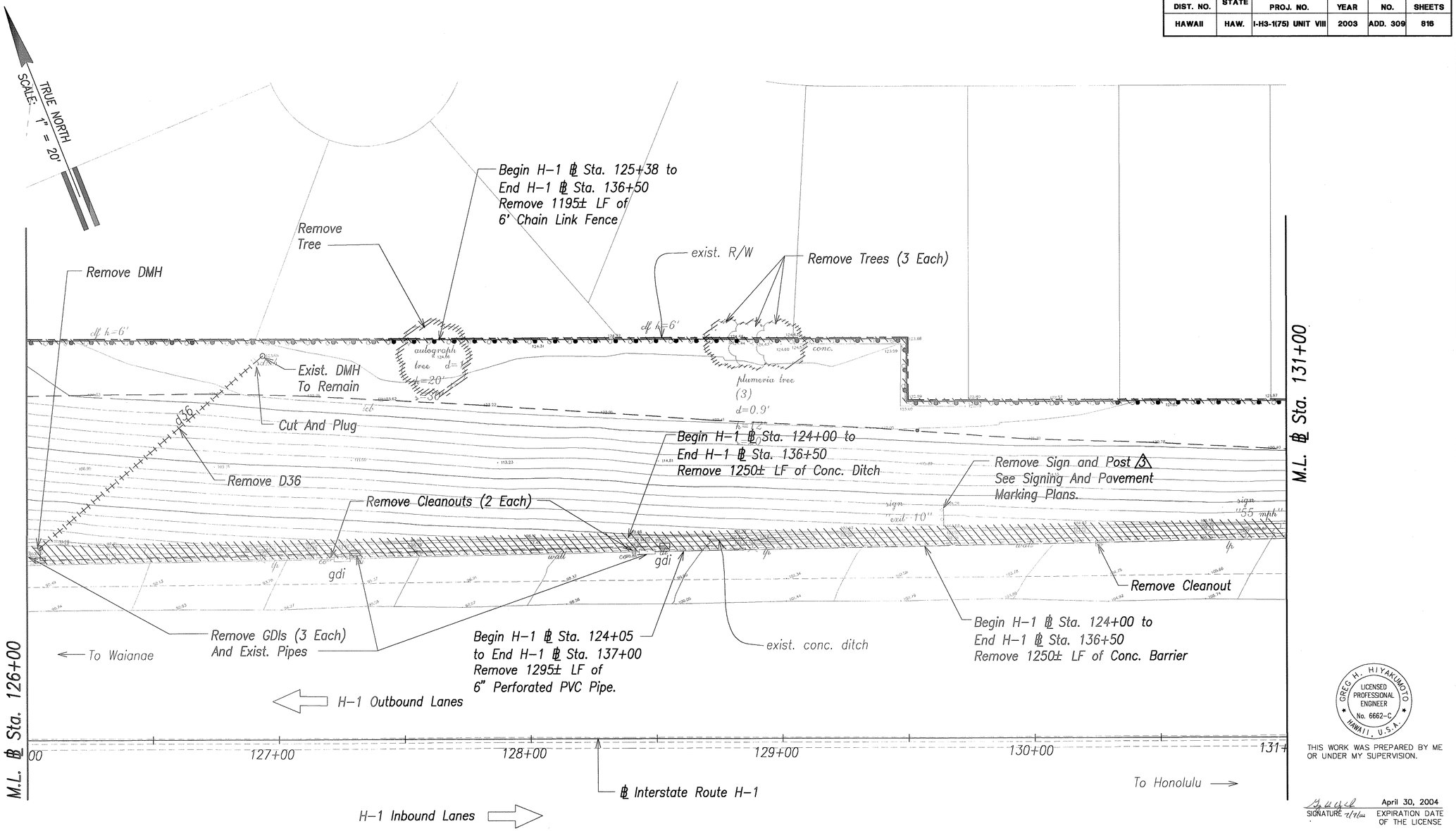
SHEET No. AC17.11 OF 350 SHEETS

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

RMTC JOB NO.: 1-19369-OE

308

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 309	816



GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/1/04 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

Note:

For Demolition of Electrical Utilities, see Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Revised Callout.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 126+00 TO ℄ Sta. 131+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

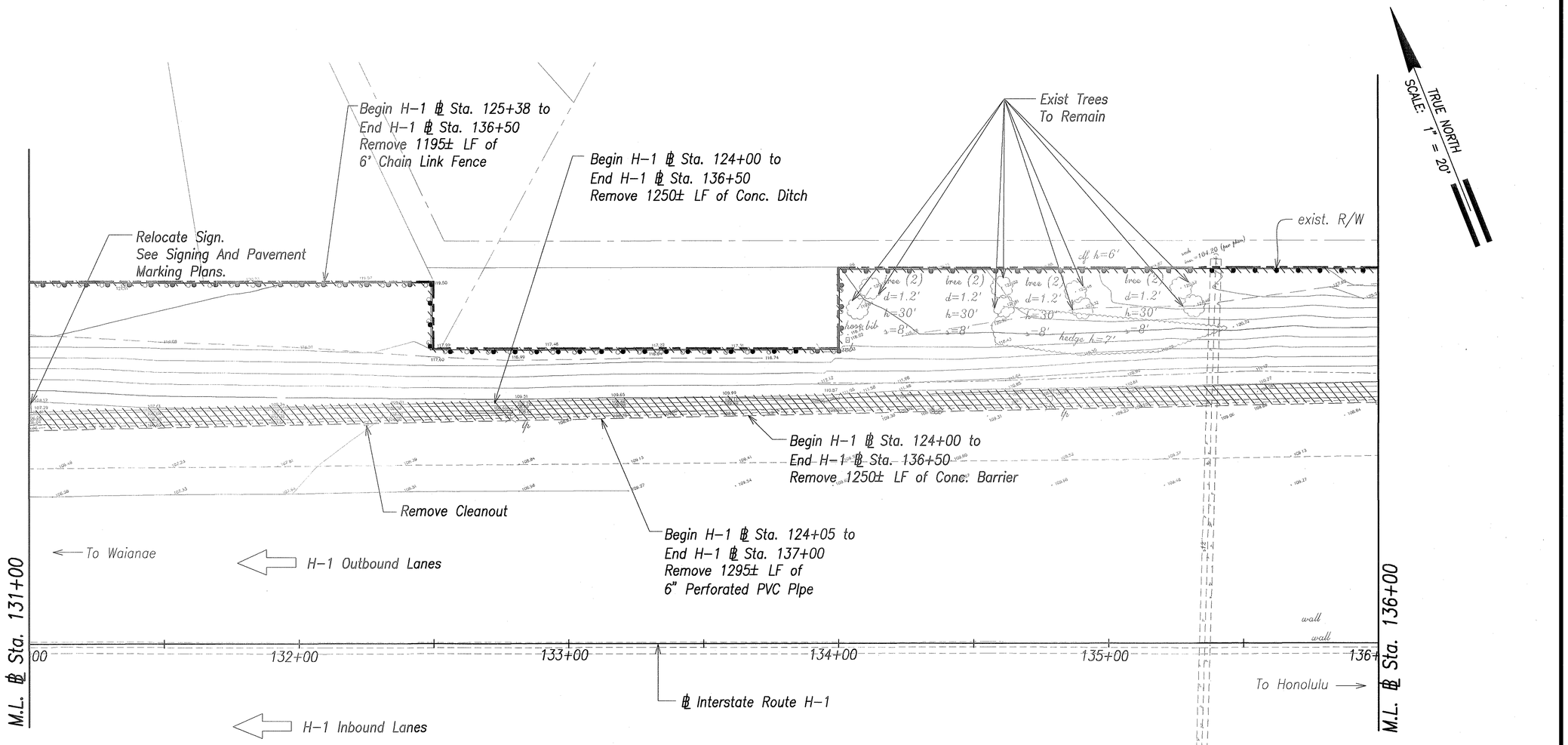
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.12 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 309

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	310	816



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

Note:

For Demolition of Electrical Utilities, see Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 131+00 TO ℄ Sta. 136+00

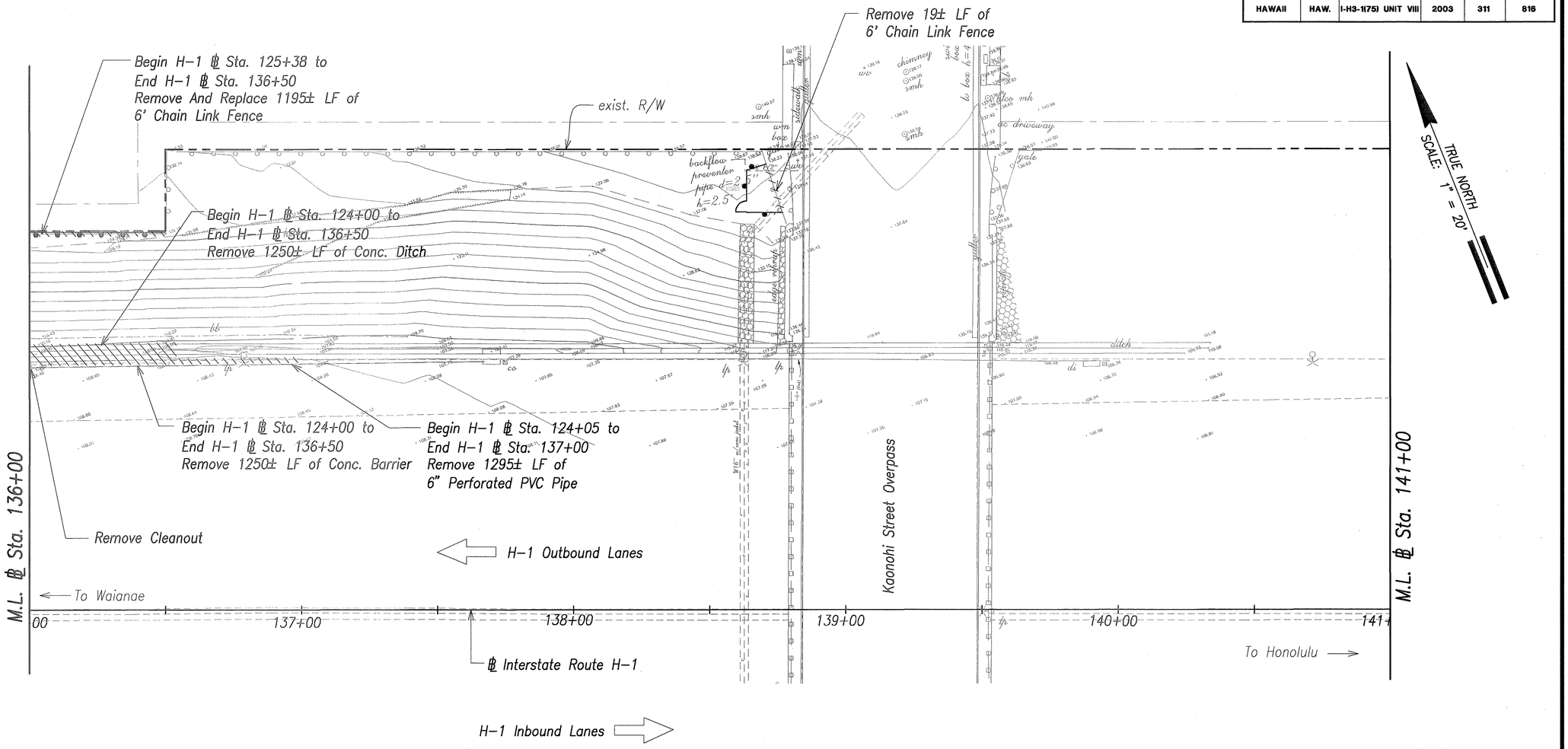
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.13 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	311	816



Note:

For Demolition of Electrical Utilities,
see Electrical Dwgs.

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

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 136+00 TO ℄ Sta. 141+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

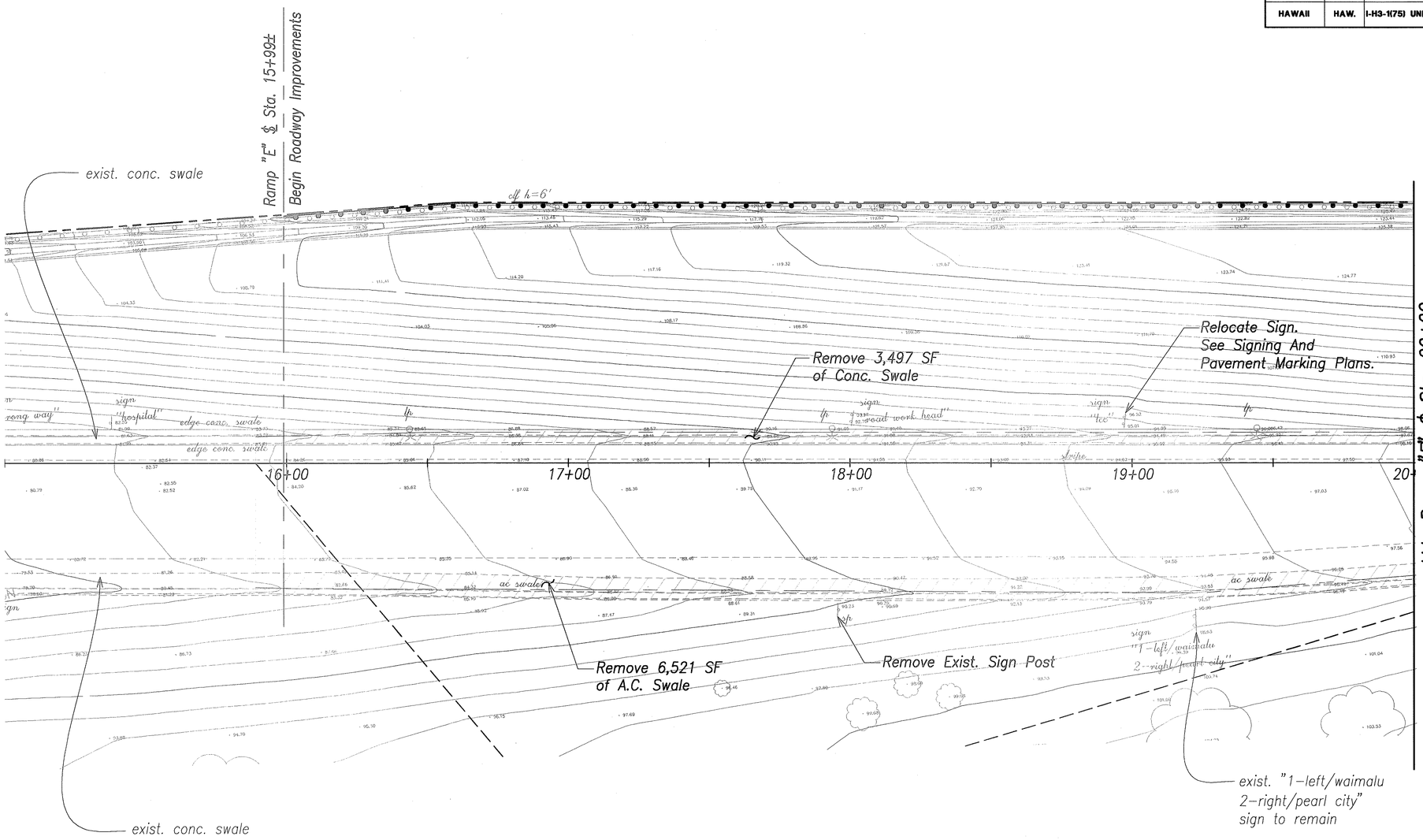
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.14 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD 311S-1	816

TRUE NORTH
SCALE: 1" = 20'



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

Note:

For Demolition of Electrical Utilities, See Electrical Dwgs.

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

DATE	REVISION
6/20/03	3 Added Sheet.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE 7/4/03 — April 30, 2004 EXPIRATION DATE OF THE LICENSE

3

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

℄ Sta. 15+00 TO Sta. 20+00

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

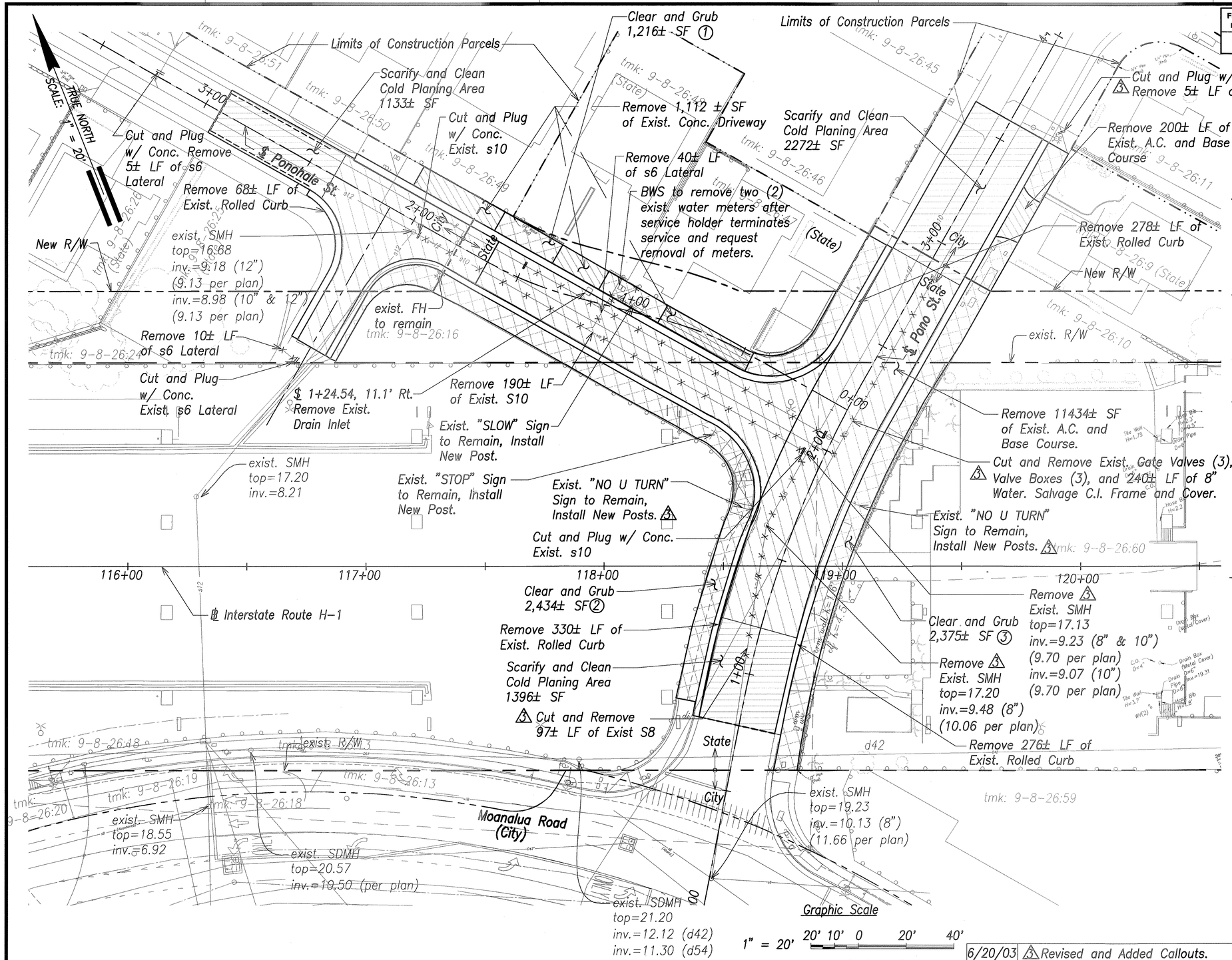
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.14A OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 311S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 312	816



Joseph W Kaahaaina 7/8/03
Principal Executive Maintenance Unit, BWS — Date

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAFT BY | NOTE BOOK | TRACED BY | DESIGNED BY | QUANTITIES BY | No. | CHECKED BY | DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN
PONOHALE ST. & PONO ST.

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

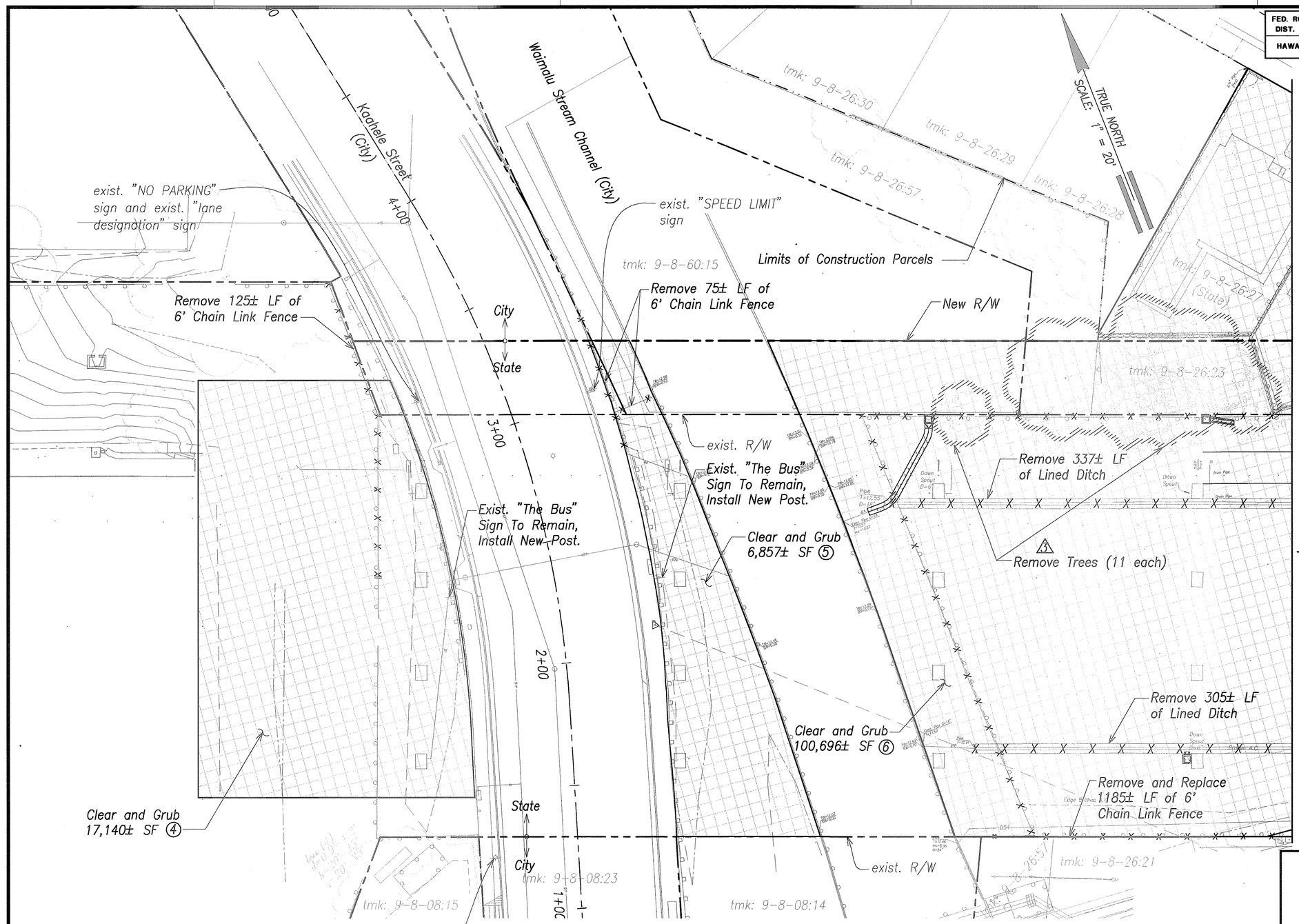
DATE	REVISION
6/20/03	(3) Revised and Added Callouts.

SHEET No. AC17.15 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 312

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 313	816



M.L. @ Sta. 115+50

Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

Notes:

1. Contractor shall exercise caution when working around existing utilities.
2. All Utilities Shall Be Operational During Demolition Except Where Services Requires Shutdown For Line Connection. Such Shutdown Shall Be Done with Least Amount of Interruption of Service.
3. The Contractor shall be responsible to maintain continuous sewer and water service to all affected areas during construction.
4. For Erosion Control, see Sheet AC16.10.

CLEAR & GRUB SUMMARY (For Permit Purposes Only)		
Area (1)	=	1,216± SF
Area (2)	=	2,420± SF
Area (3)	=	2,375± SF
Area (4)	=	17,140± SF
Area (5)	=	6,857± SF
Area (6)	=	100,696± SF
Area (7)	=	10,707± SF
Area (8)	=	14,000± SF
Area (9)	=	14,795± SF
Area (10)	=	20,714± SF
Total	=	178,320± SF

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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

DATE	REVISION
6/20/03	3 Added Note.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

BELOW VIADUCT – 1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

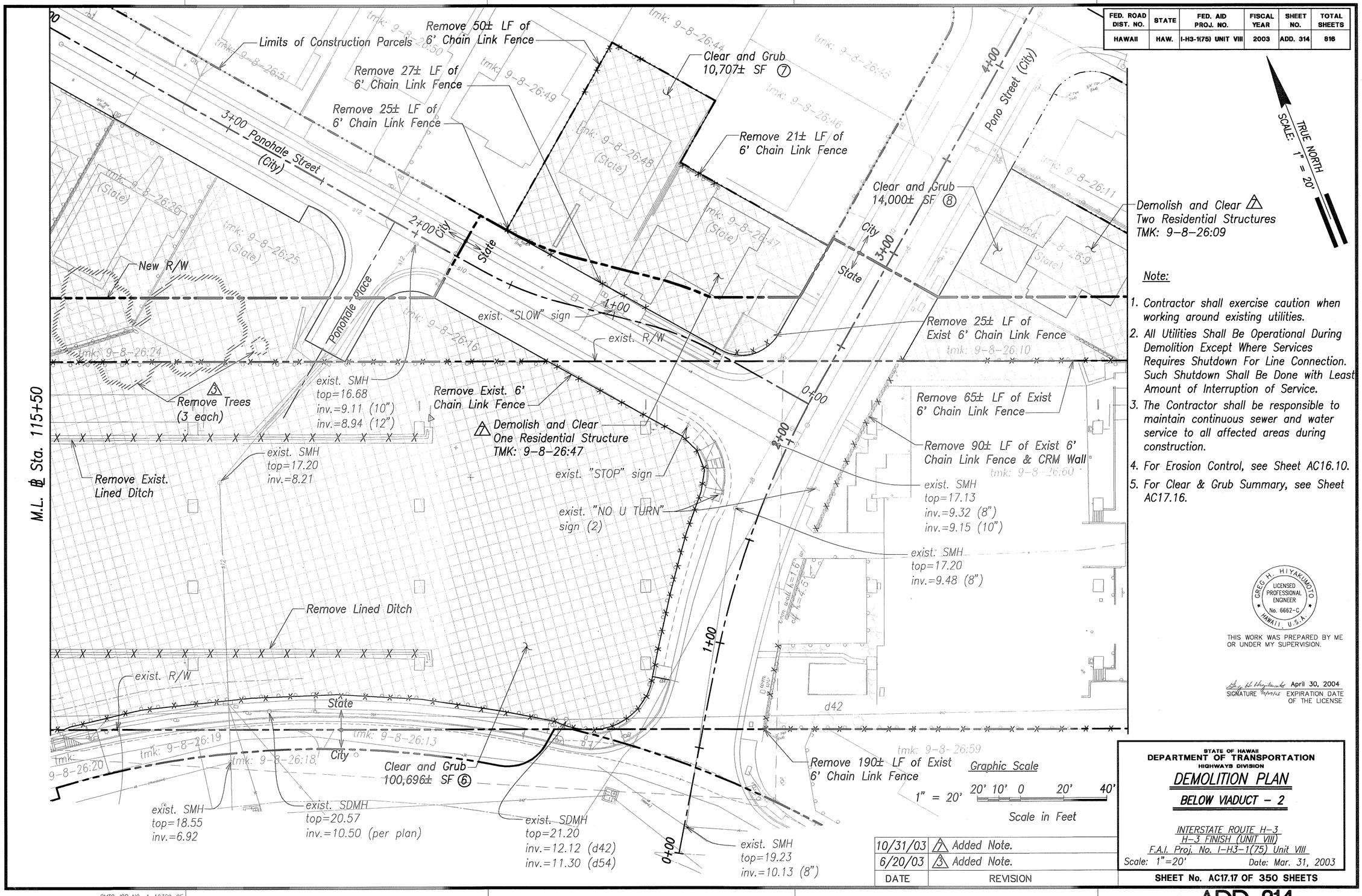
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.16 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 313

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 314	816



Note:

1. Contractor shall exercise caution when working around existing utilities.
2. All Utilities Shall Be Operational During Demolition Except Where Services Requires Shutdown For Line Connection. Such Shutdown Shall Be Done with Least Amount of Interruption of Service.
3. The Contractor shall be responsible to maintain continuous sewer and water service to all affected areas during construction.
4. For Erosion Control, see Sheet AC16.10.
5. For Clear & Grub Summary, see Sheet AC17.16.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

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

DATE	REVISION
10/31/03	⚠7 Added Note.
6/20/03	⚠3 Added Note.

Graphic Scale
1" = 20' 20' 10' 0 20' 40'
Scale in Feet

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN
BELOW VIADUCT – 2

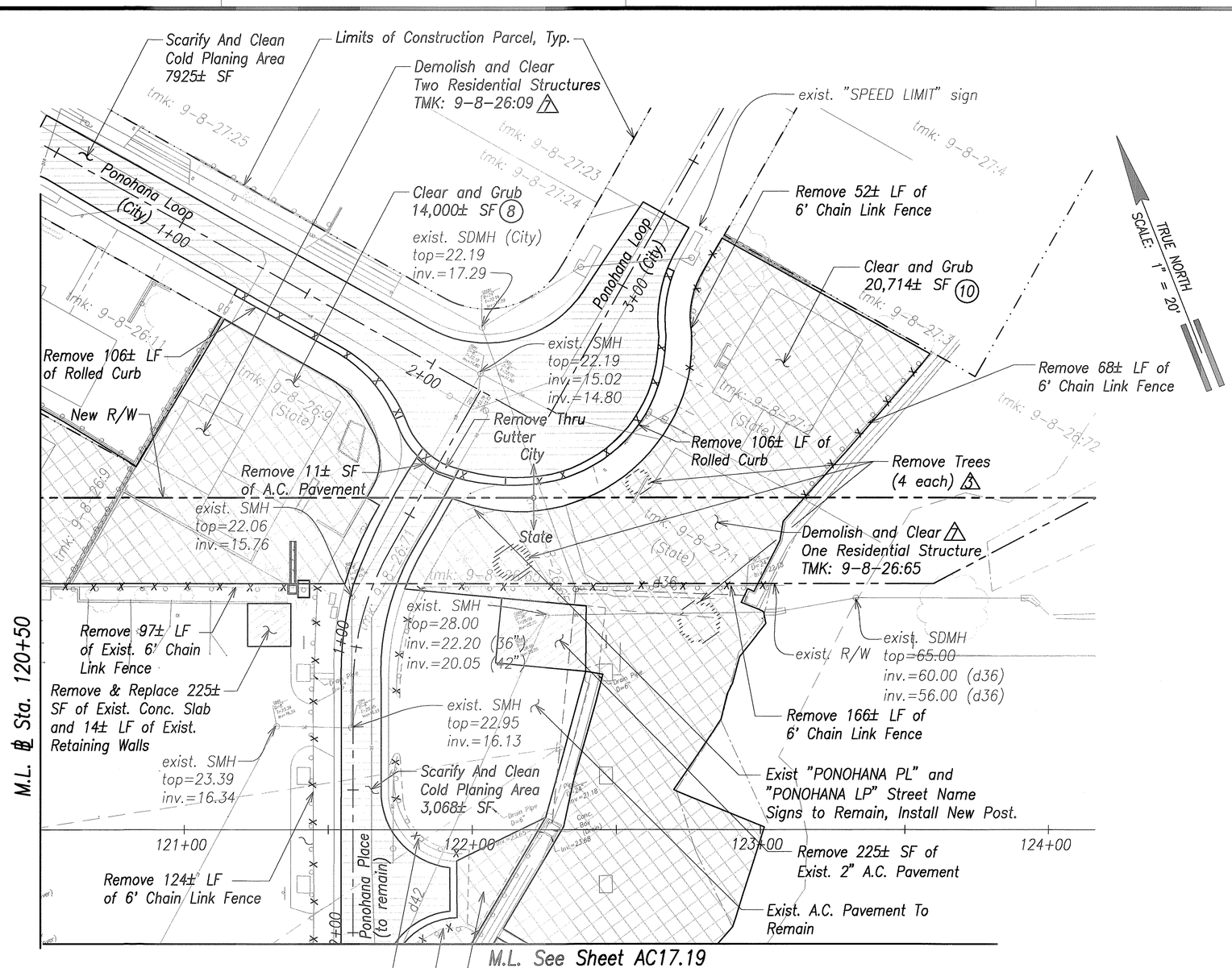
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.17 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

ADD. 314

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 315	816



Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

Notes:

1. Contractor shall exercise caution when working around existing utilities.
2. All Utilities Shall Be Operational During Demolition Except Where Services Requires Shutdown For Line Connection. Such Shutdown Shall Be Done with Least Amount of Interruption of Service.
3. The Contractor shall be responsible to maintain continuous sewer and water service to all affected areas during construction.
4. For Erosion Control, see Sheet AC16.10.
5. For Clear & Grub Summary, see Sheet AC17.16.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

DATE	REVISION
10/31/03	(7) Added Note.
6/20/03	(3) Added Note.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

BELOW VIADUCT – 3

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

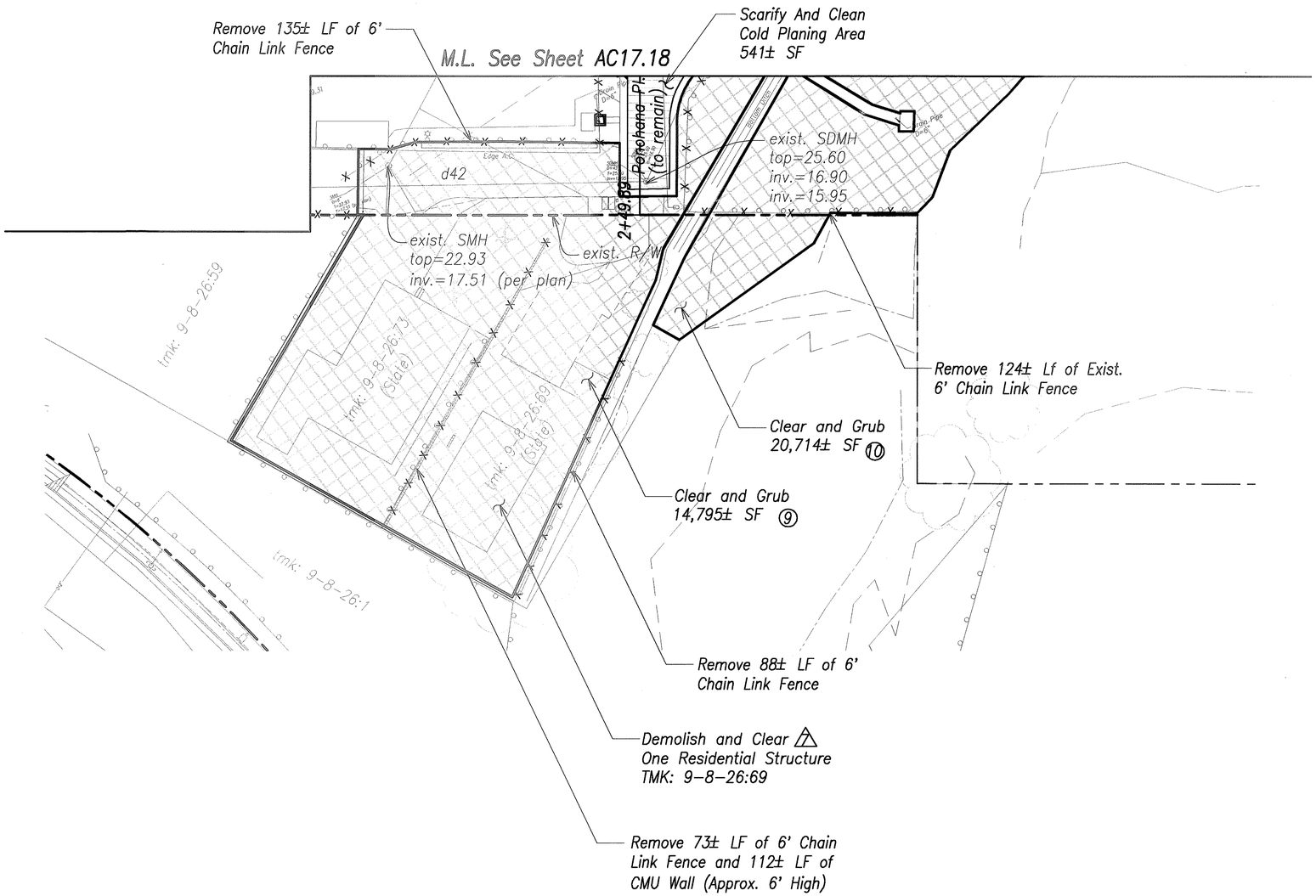
Scale: 1"=20' Date: Mar. 31, 2003

SHEET No. AC17.18 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 315

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75) UNIT VIII	2003	ADD. 316	816



Graphic Scale

1" = 20' 20' 10' 0 20' 40'

Scale in Feet

Notes:

1. Contractor shall exercise caution when working around existing utilities.
2. All Utilities Shall Be Operational During Demolition Except Where Services Requires Shutdown For Line Connection. Such Shutdown Shall Be Done with Least Amount of Interruption of Service.
3. The Contractor shall be responsible to maintain continuous sewer and water service to all affected areas during construction.
4. For Erosion Control, see Sheet AC16.10.
5. For Clear & Grub Summary, see Sheet AC17.16.

GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

BELOW VIADUCT – 4

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=20' Date: Mar. 31, 2003

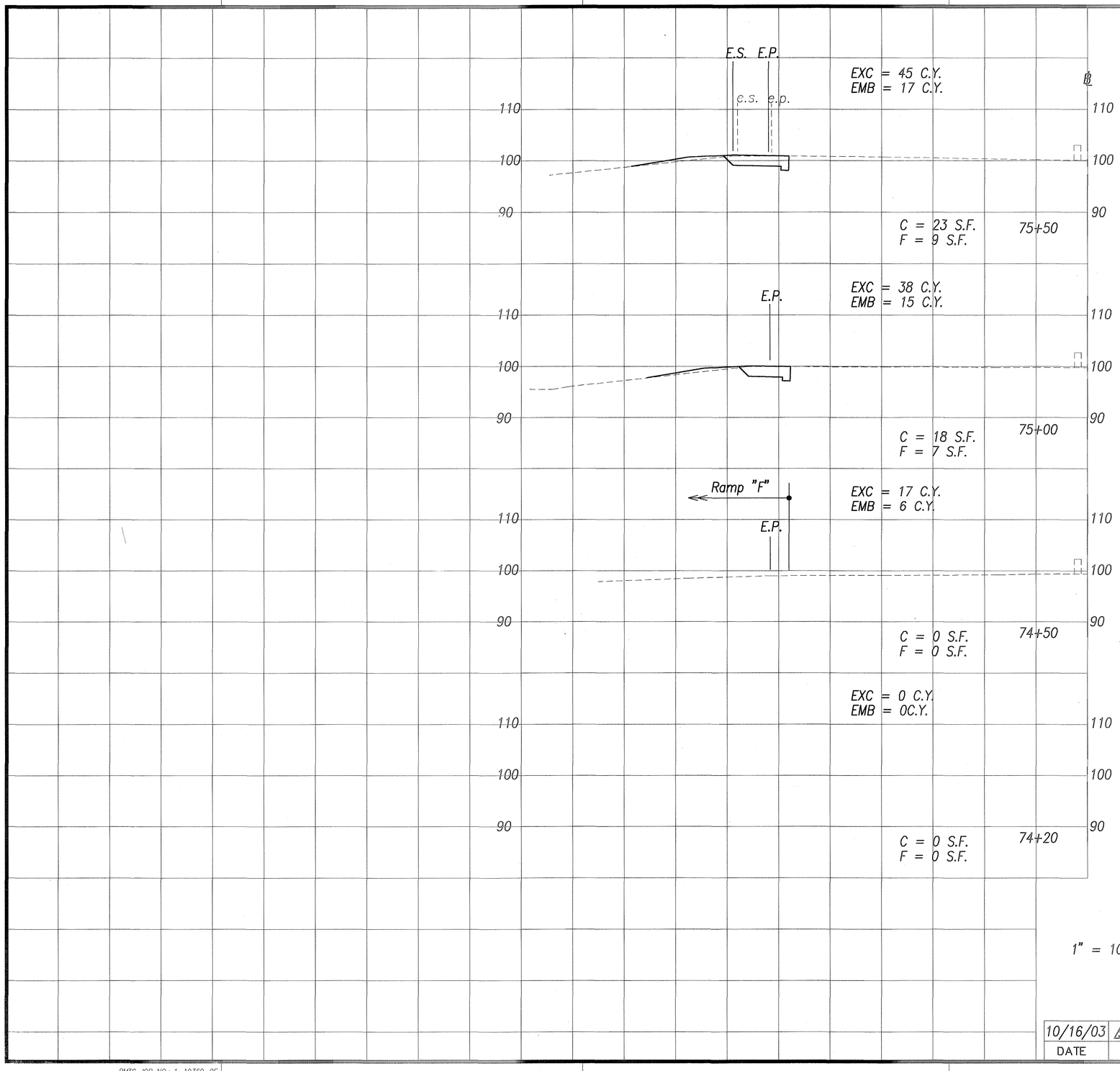
DATE	REVISION
10/31/03	(7) Added Note.

SHEET No. AC17.19 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 316

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 317	816



△ Note:

Site structure wall configurations shown on the Cross Sections are schematic only. Refer to sheets AW0.1 through AW18.1 for site structure wall locations, configurations, structure excavation and structure backfill pay limits.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 1

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.1 OF 350 SHEETS

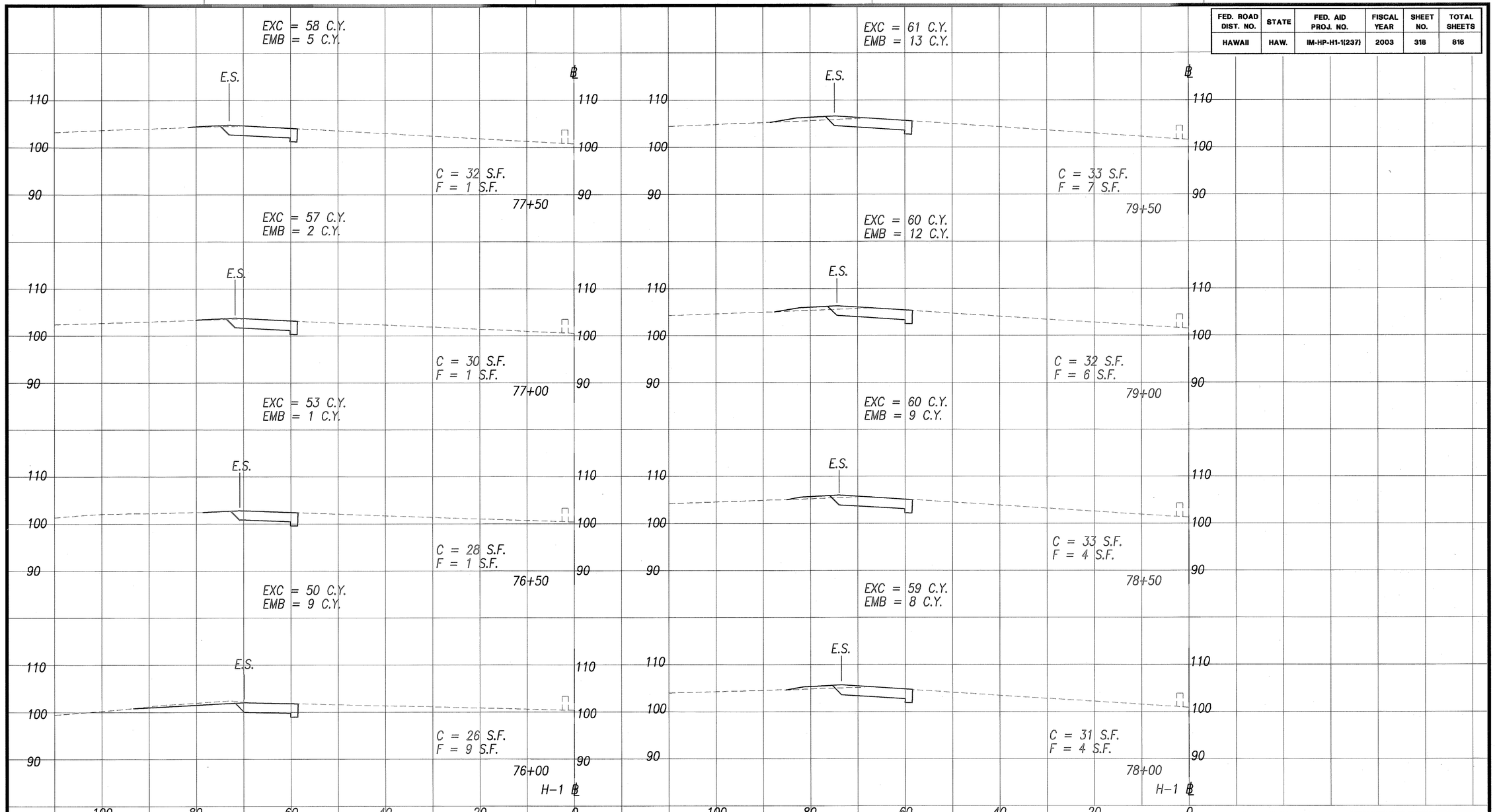
DATE	REVISION
10/16/03	△ Added Note

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

RMTC JOB NO.: 1-19369-0E

ADD. 317

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	318	816



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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE — EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 2

INTERSTATE ROUTE H-1

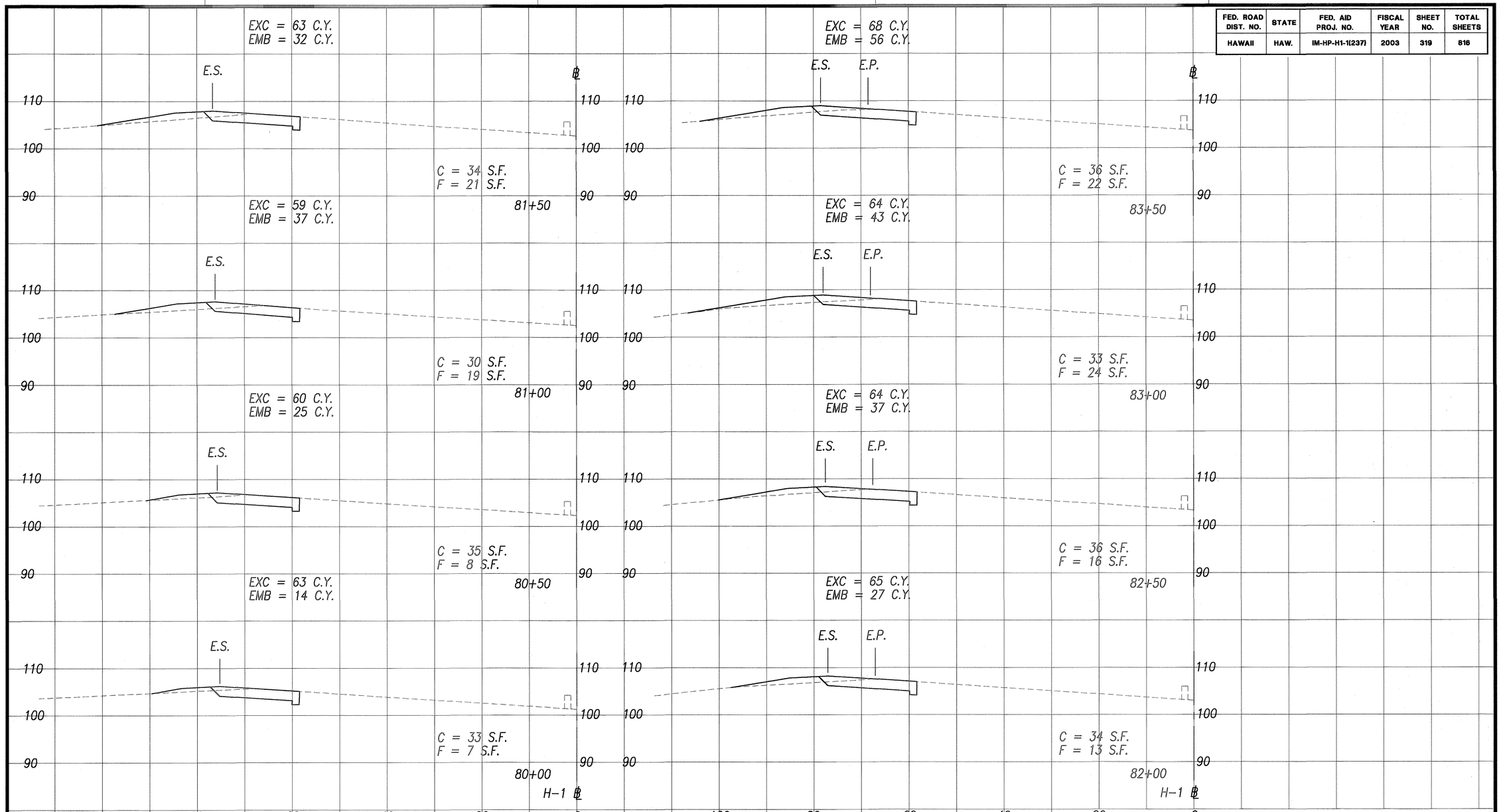
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.2 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	319	816



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

GREGG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 3

INTERSTATE ROUTE H-1

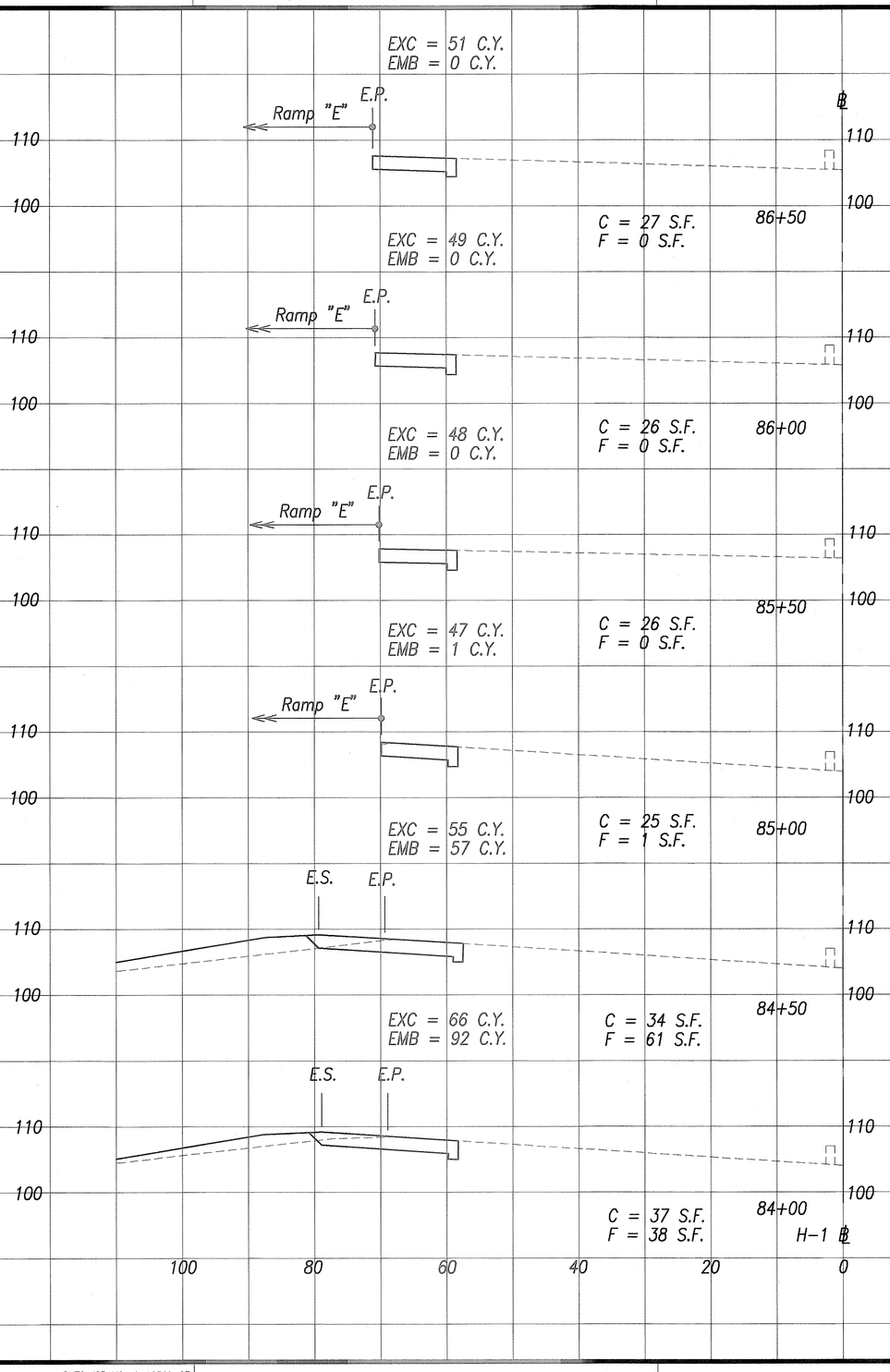
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

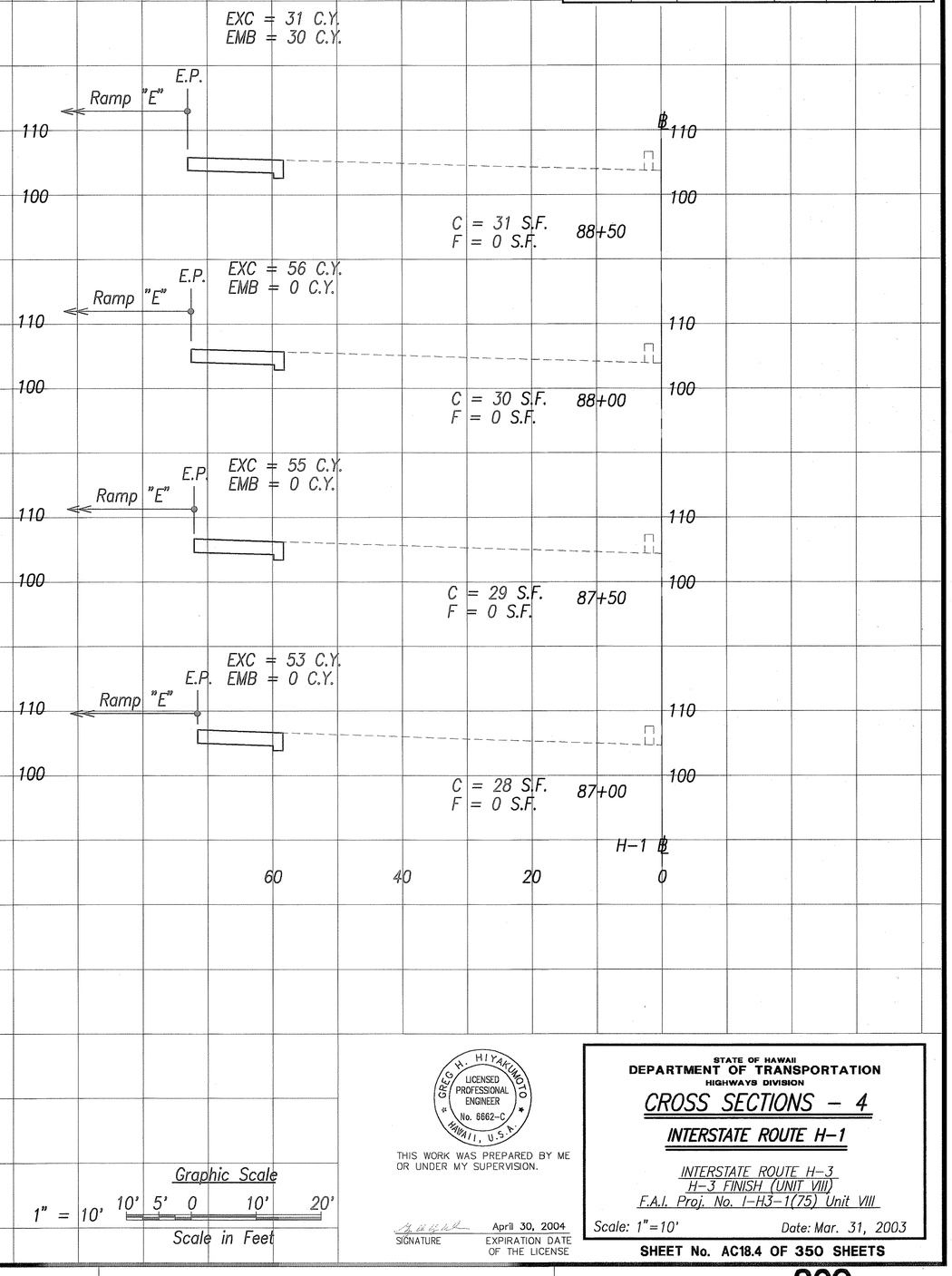
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.3 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	320	816





Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

ORIGINAL PLAN

NOTE BOOK No.

SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 4

INTERSTATE ROUTE H-1

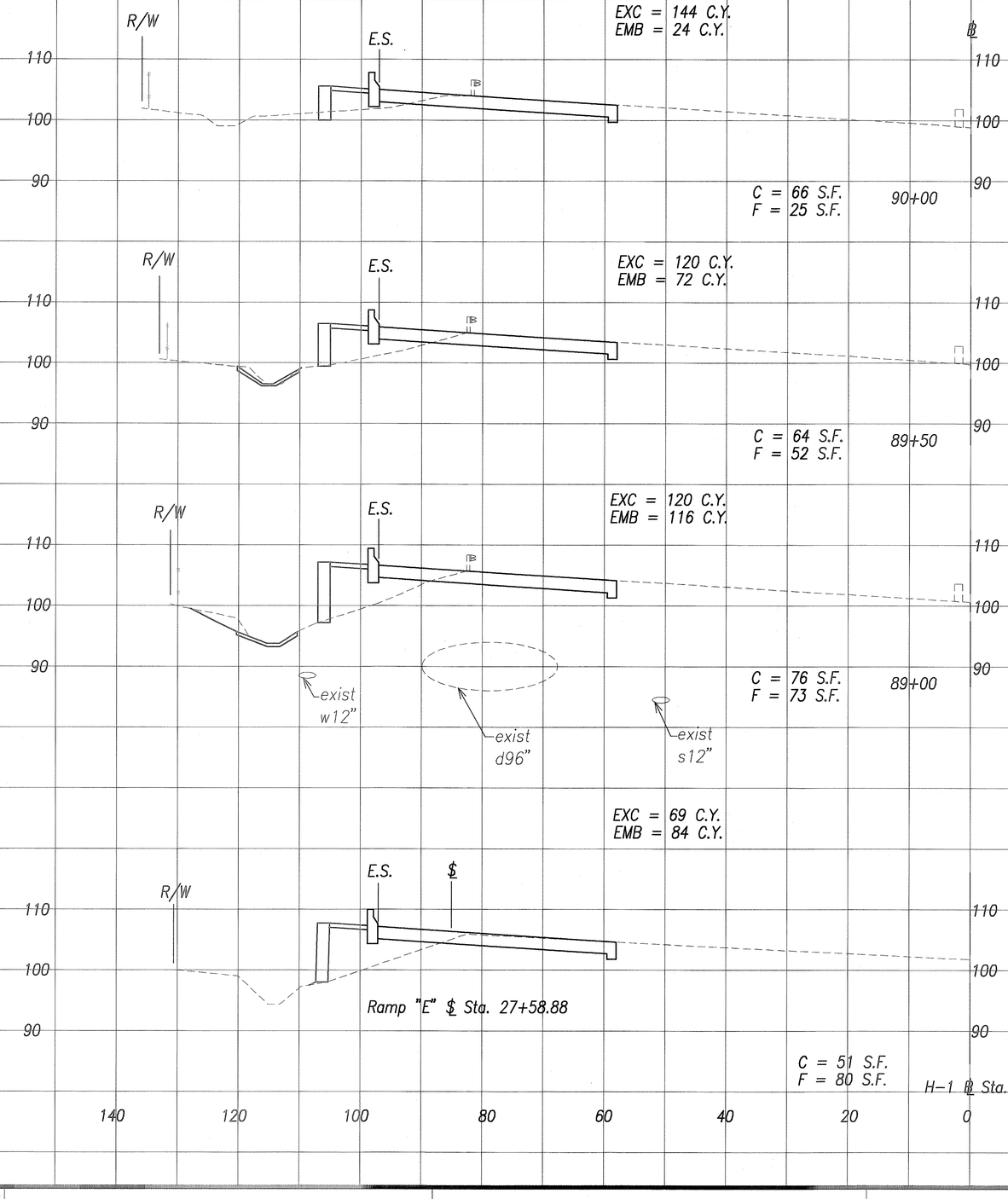
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.4 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	321	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

ORIGINAL PLAN

NOTE BOOK

No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

GREGG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 5

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

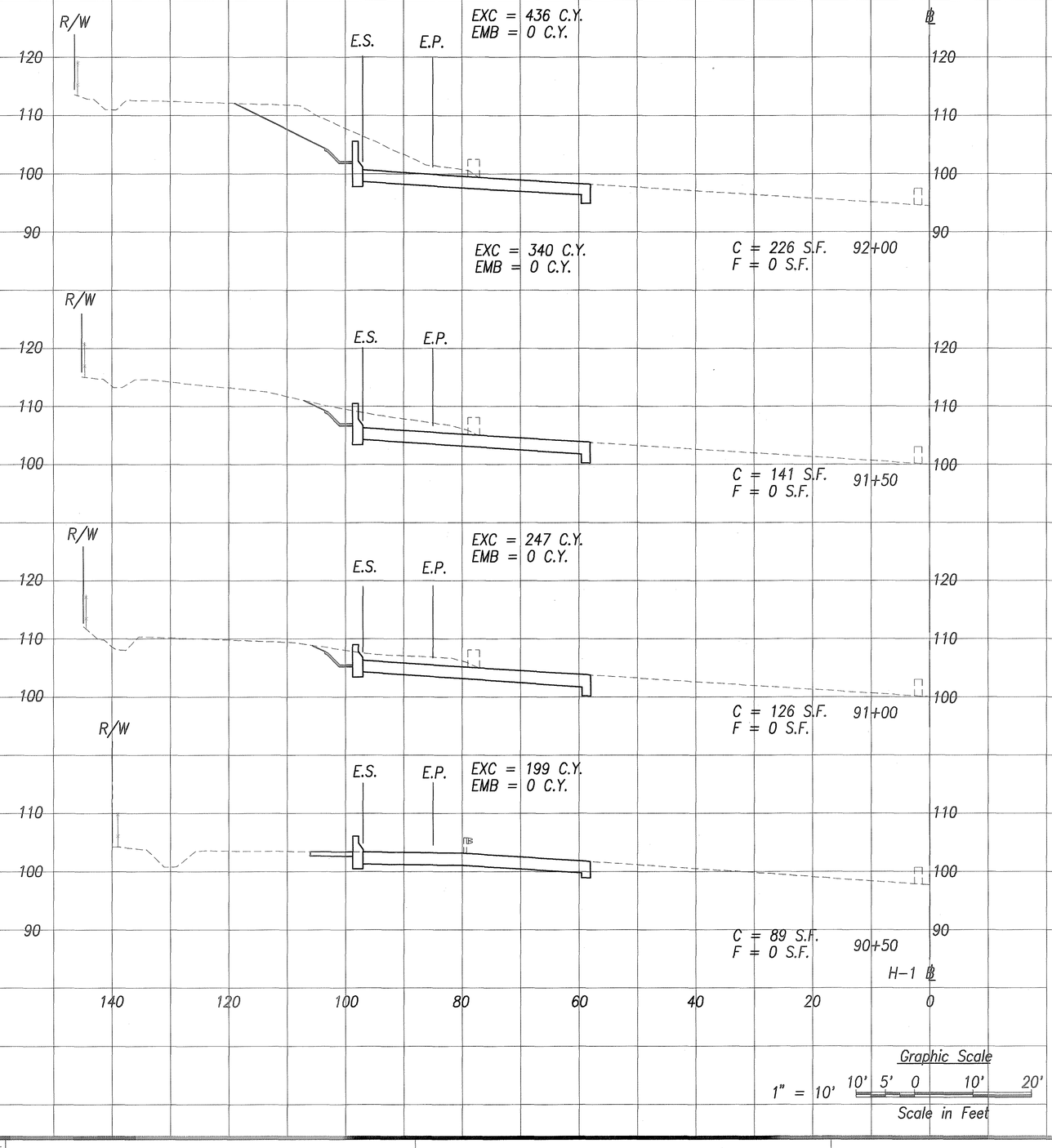
Scale: 1"=10'

Date: Mar. 31, 2003

SHEET No. AC18.5 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	322	816



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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 6

INTERSTATE ROUTE H-1

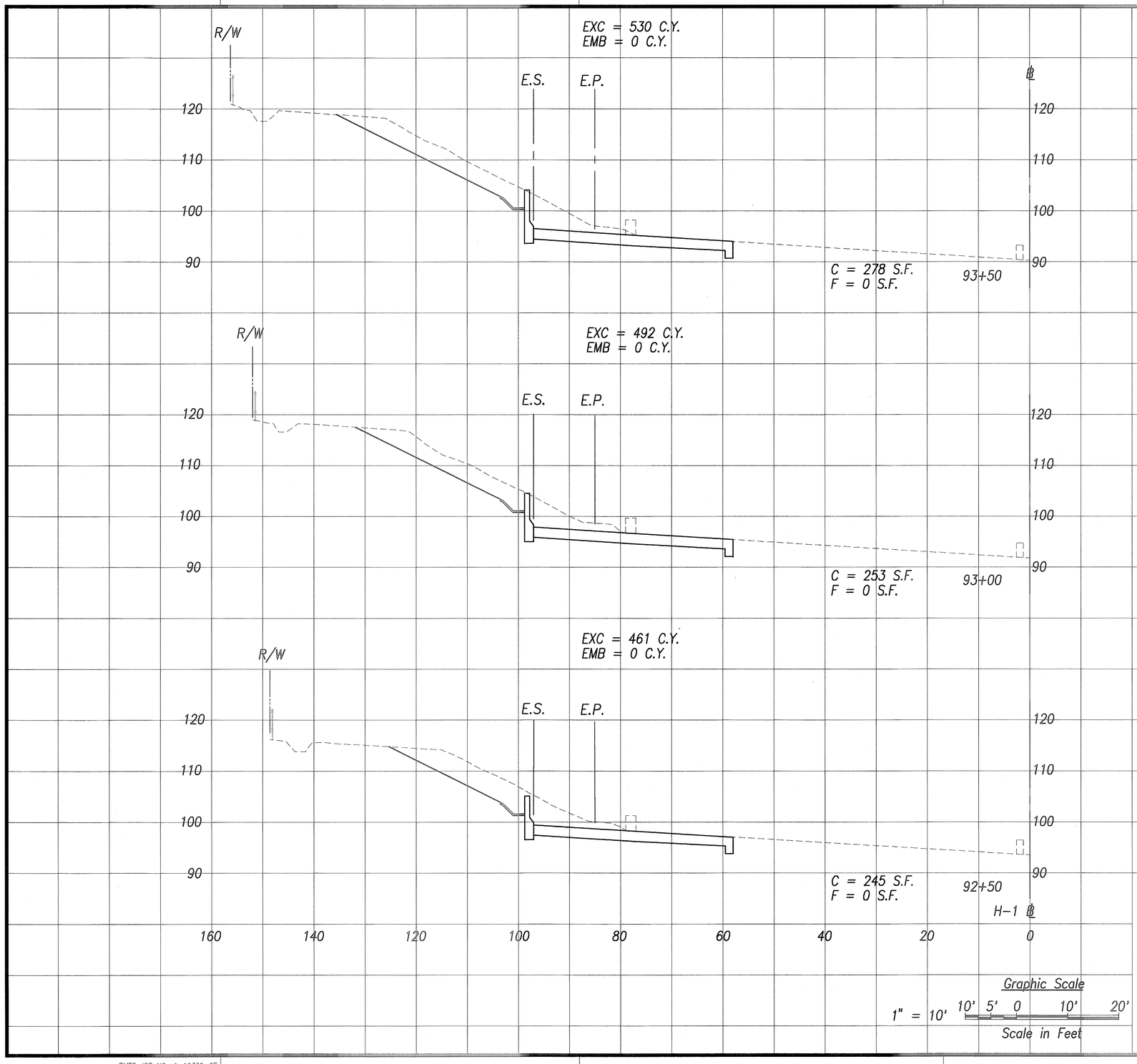
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.6 OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	323	816



ORIGINAL PLAN

NOTE BOOK No.

SURVEY PLOTTED BY DATE
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 7

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

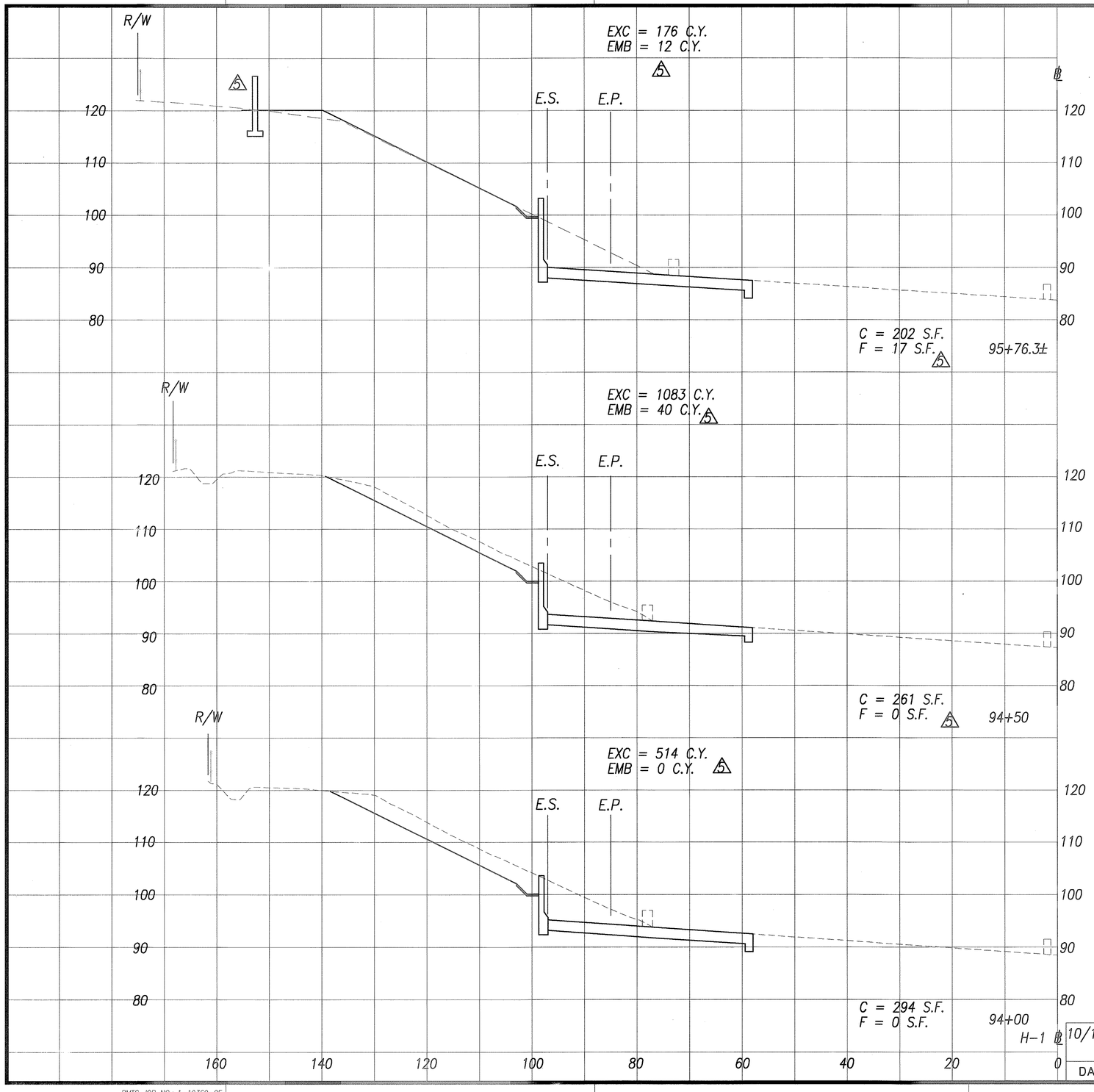
Scale: 1"=10'

Date: Mar. 31, 2003

SHEET No. AC18.7 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 324	816



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

RMTC JOB NO.: 1-19369-0E

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE _____ April 30, 2004
EXPIRATION DATE OF THE LICENSE

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 8

INTERSTATE ROUTE H-1

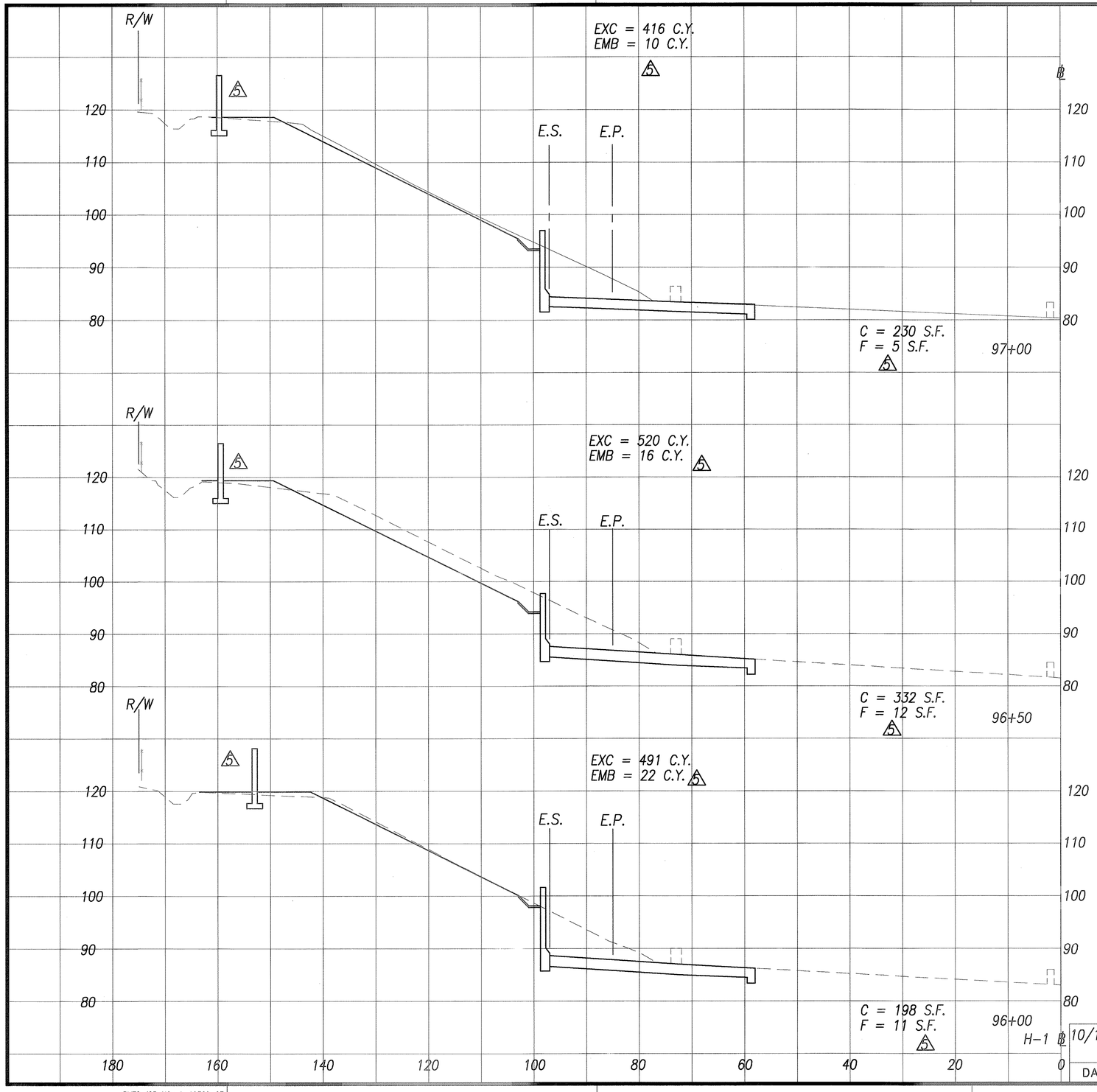
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.8 OF 350 SHEETS

ADD. 324

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 325	816



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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 9

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

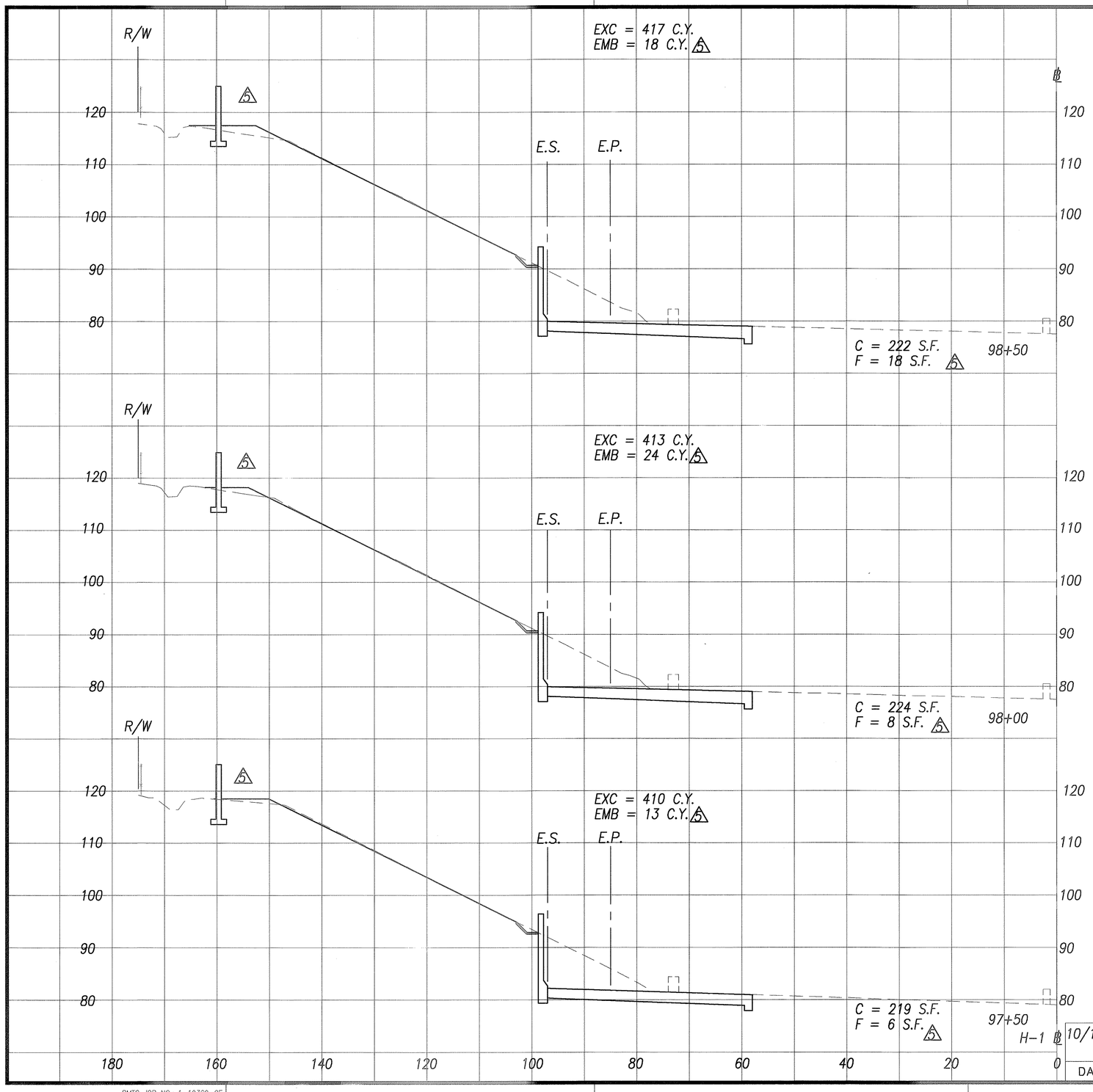
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.9 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 325

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 326	816



ORIGINAL PLAN

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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SIGNATURE _____ April 30, 2004 EXPIRATION DATE OF THE LICENSE

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 10

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

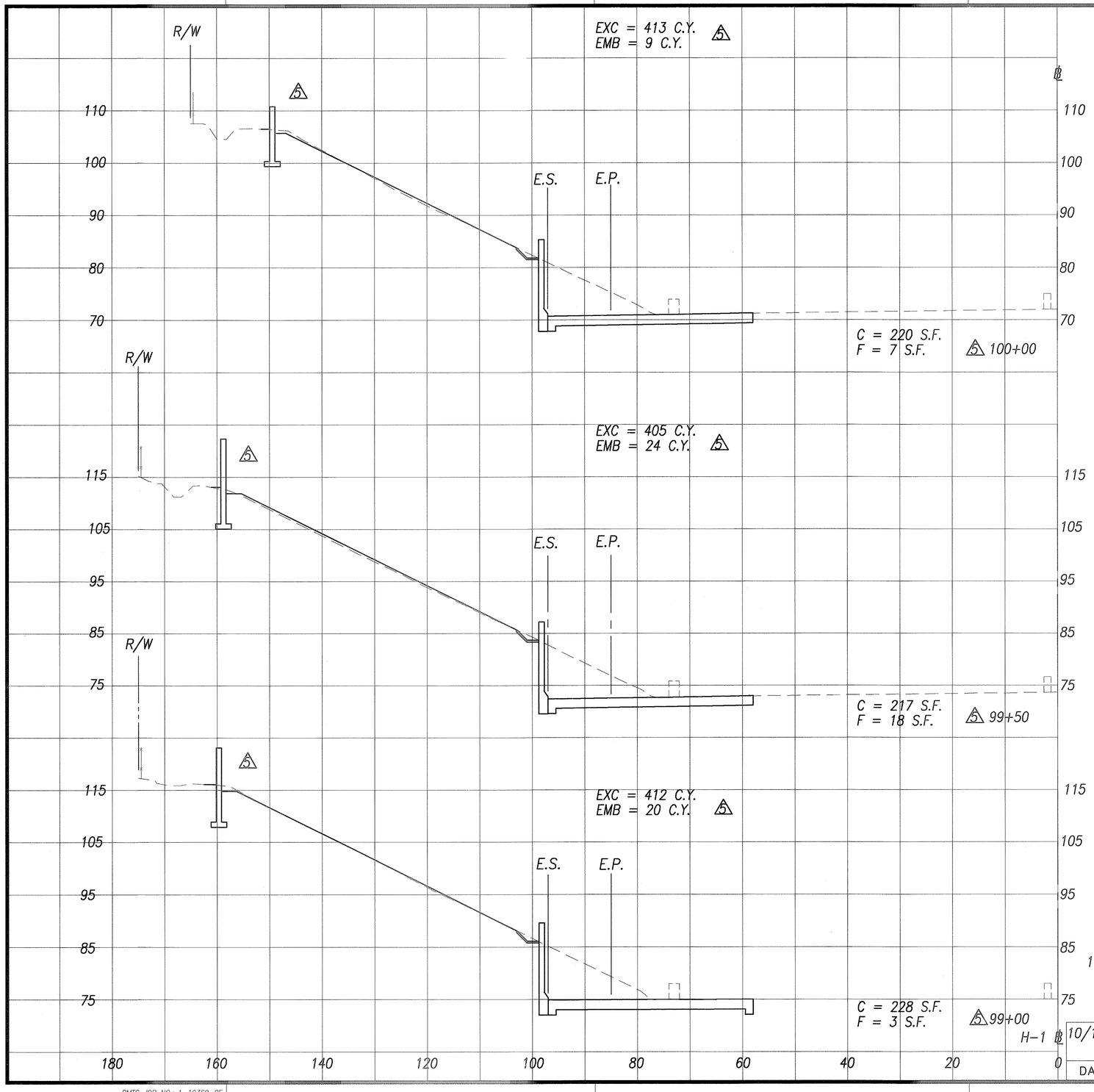
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.10 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 326

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 327	816



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

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

GREG H. HIYAKUMOTO
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No. 6662-C
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 11

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

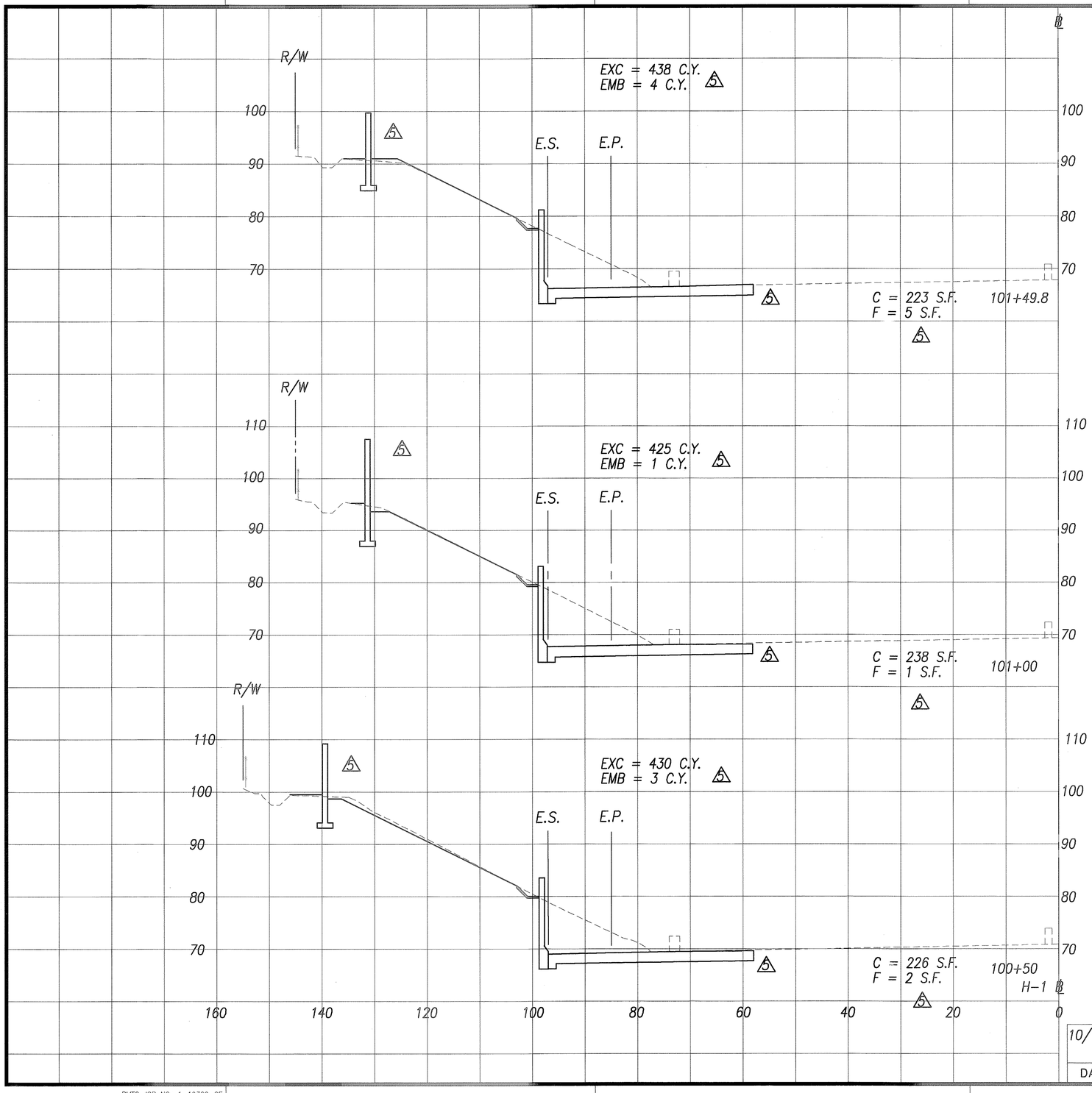
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.11 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 327

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 328	816



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

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GREG H. HIYAKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6662-C HAWAII, U.S.A.

SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 12

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

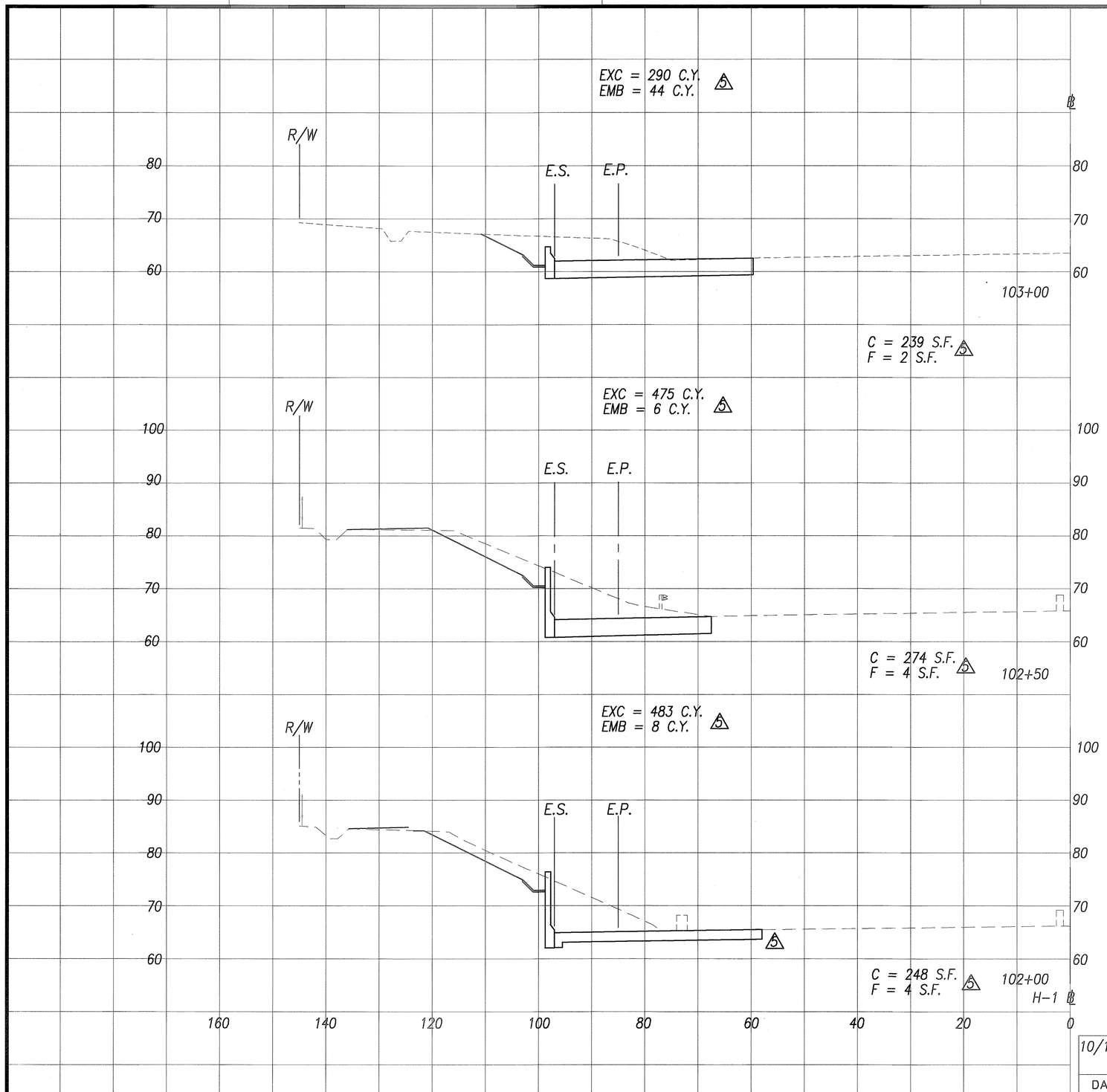
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.12 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 328

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 329	816



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

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE _____ April 30, 2004
EXPIRATION DATE OF THE LICENSE

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 13

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

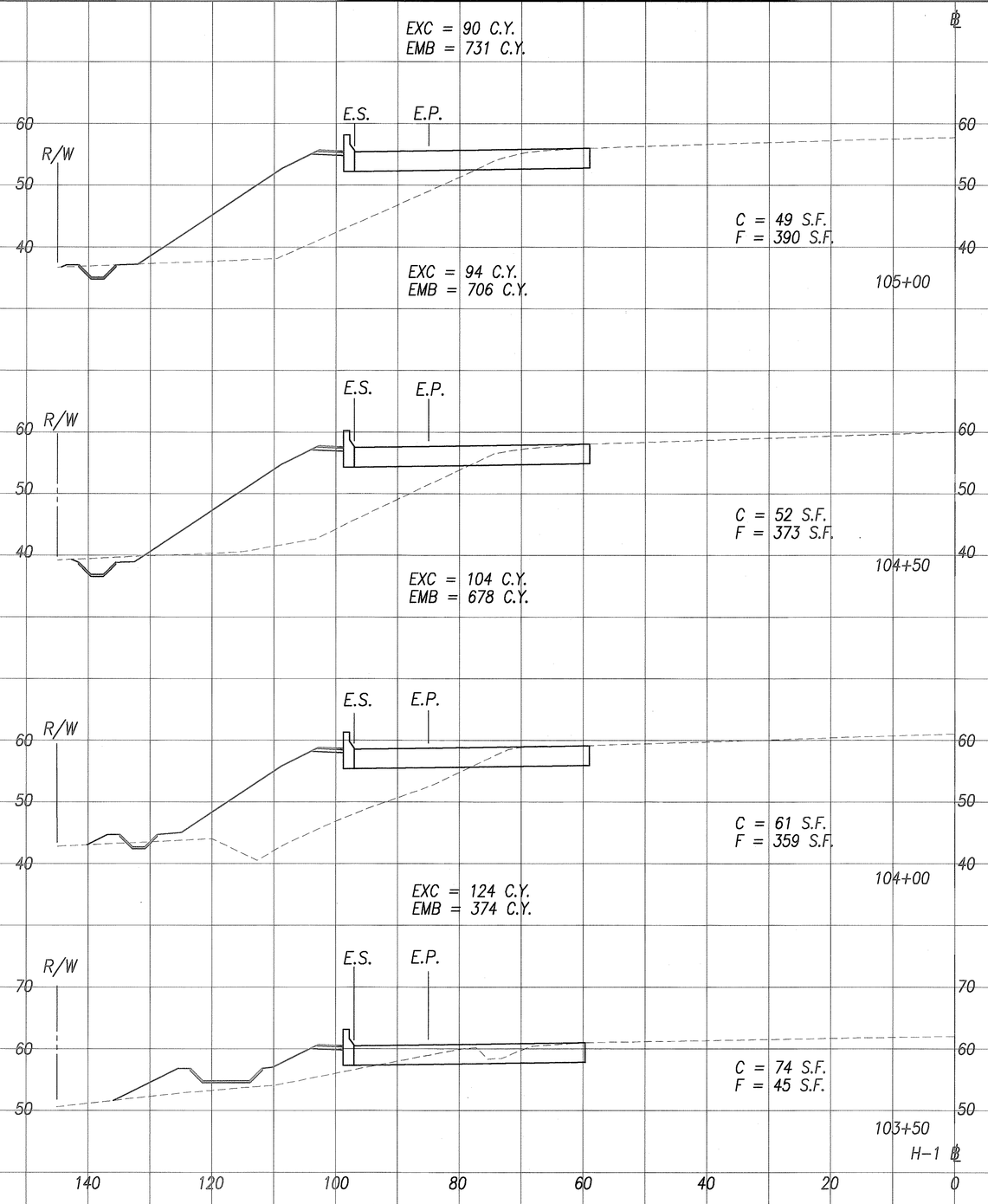
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.13 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 329

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	330	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

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

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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 14

INTERSTATE ROUTE H-1

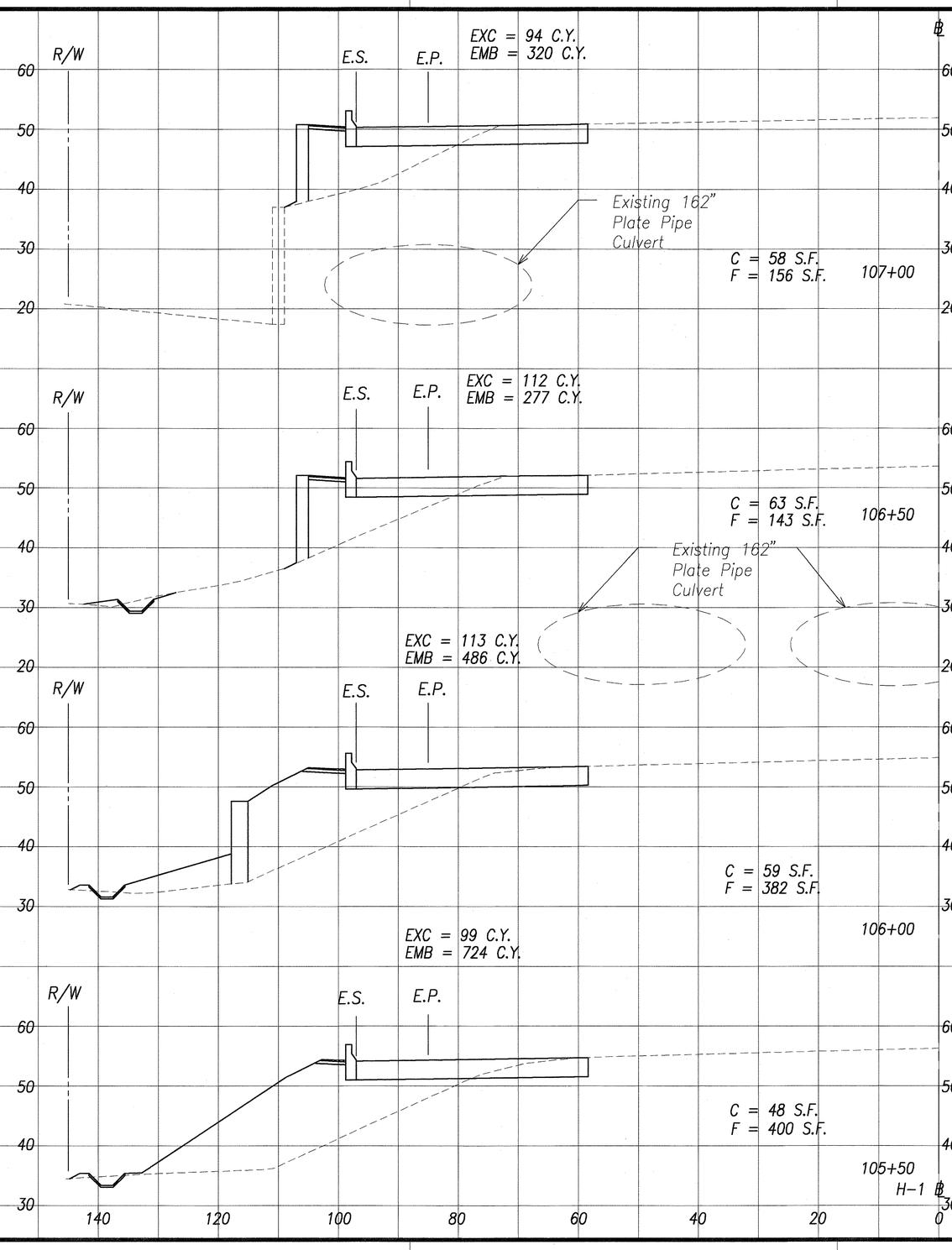
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.14 OF 350 SHEETS

RMTC JOB NO.: 1-19369-DE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	331	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

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

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No. 6662-C
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 15

INTERSTATE ROUTE H-1

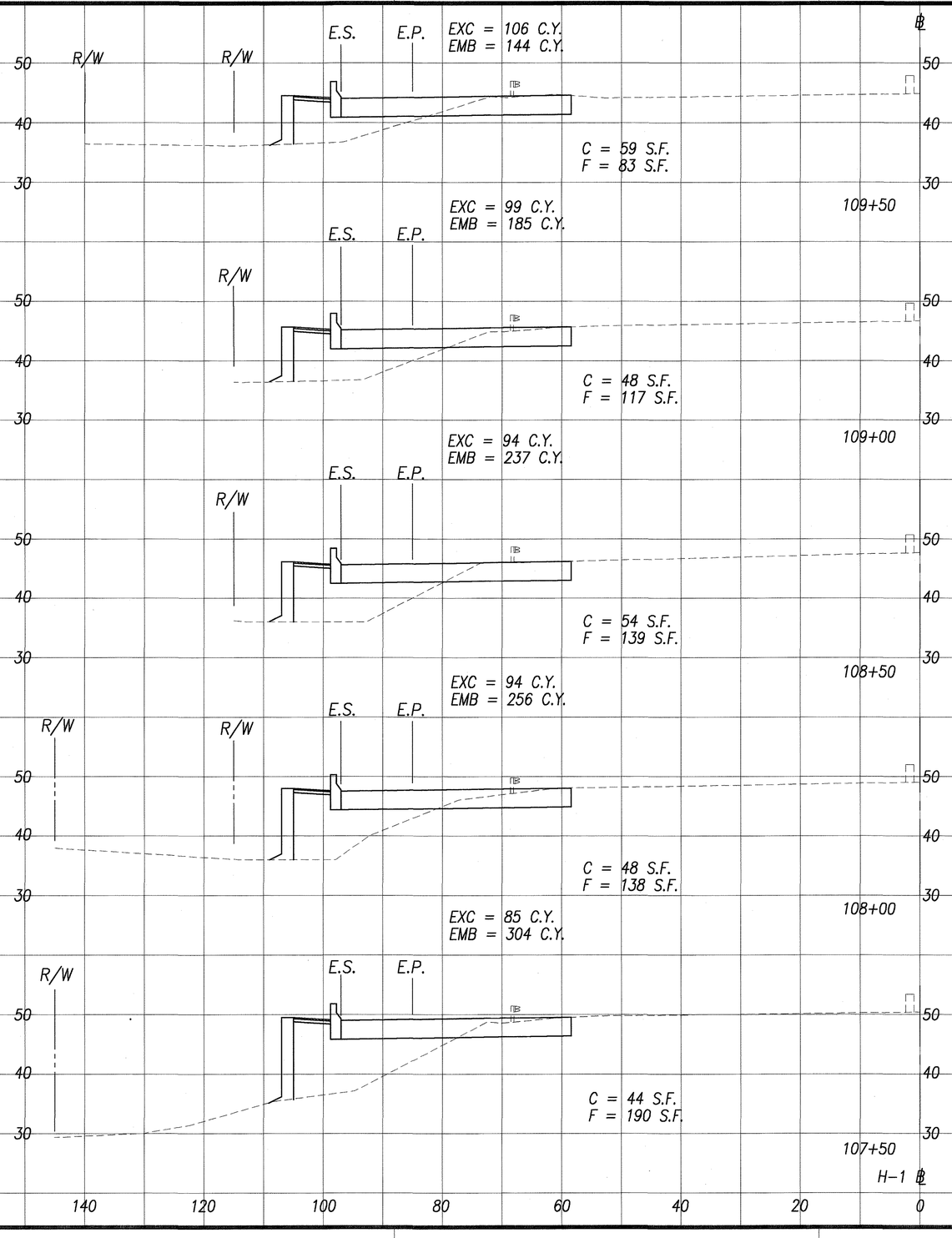
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.15 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	332	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

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

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HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 16

INTERSTATE ROUTE H-1

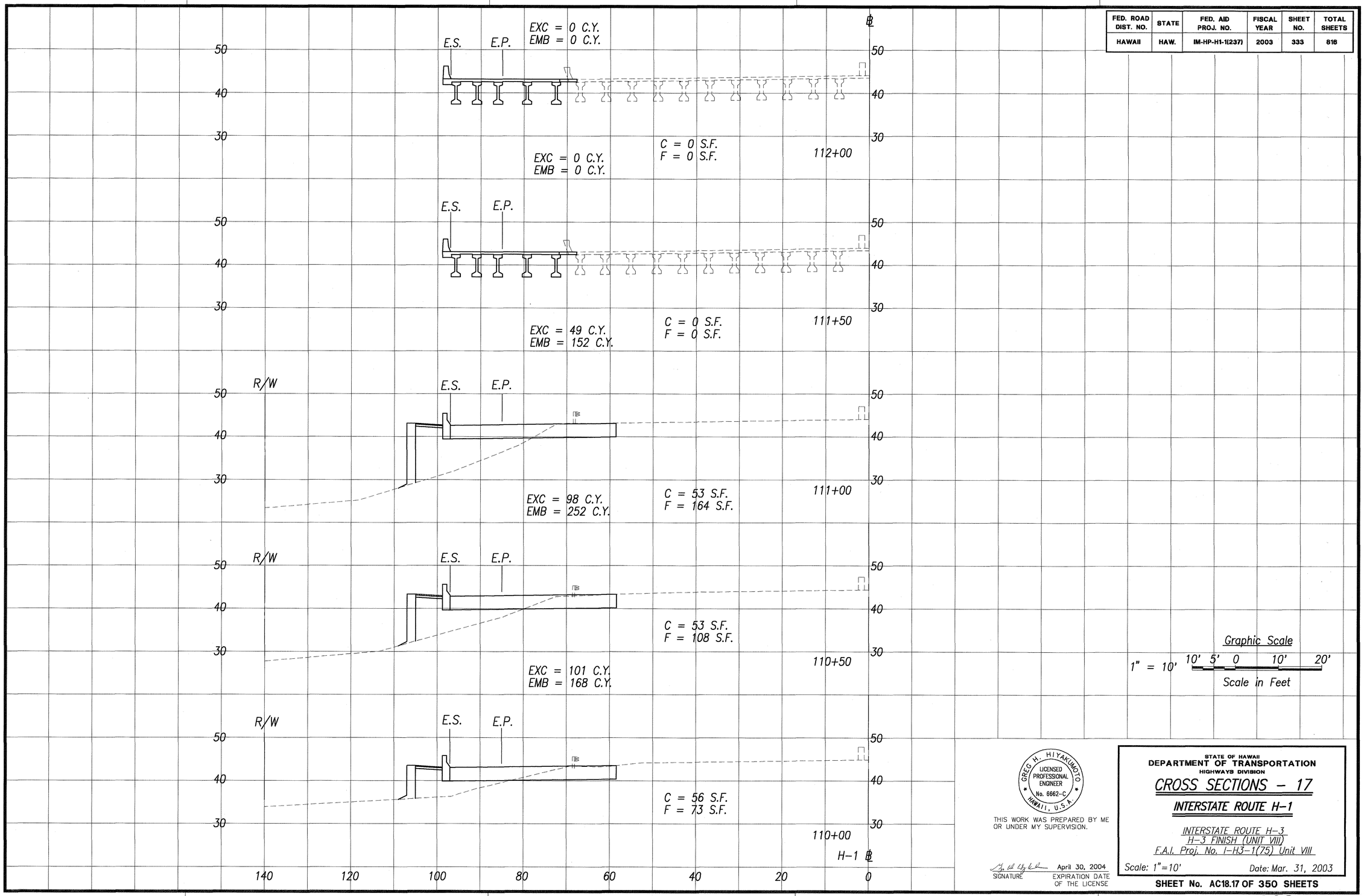
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.16 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	333	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

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

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No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE — EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 17

INTERSTATE ROUTE H-1

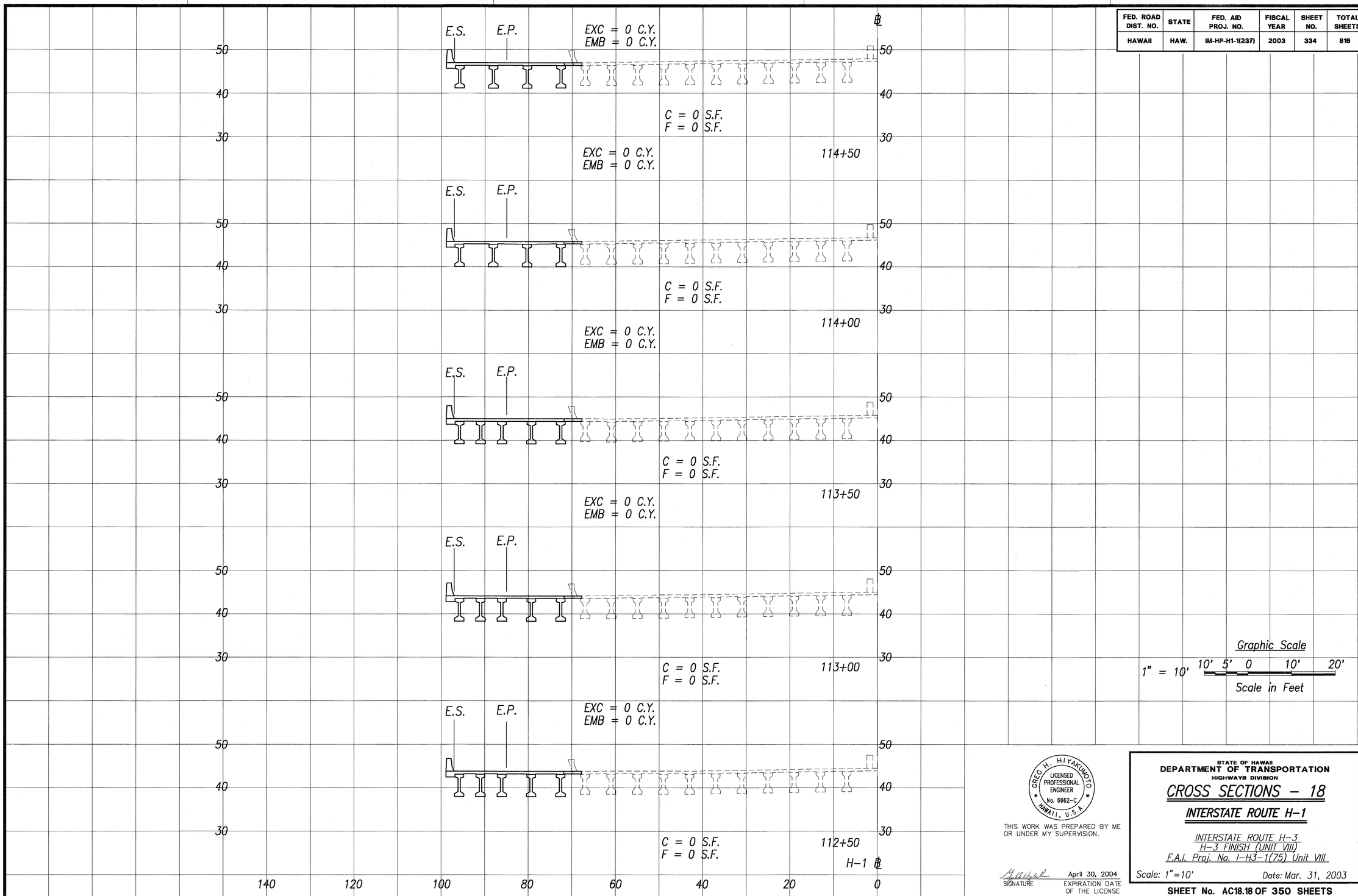
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.17 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	334	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

ORIGINAL PLAN
NOTE BOOK
No.

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 18

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

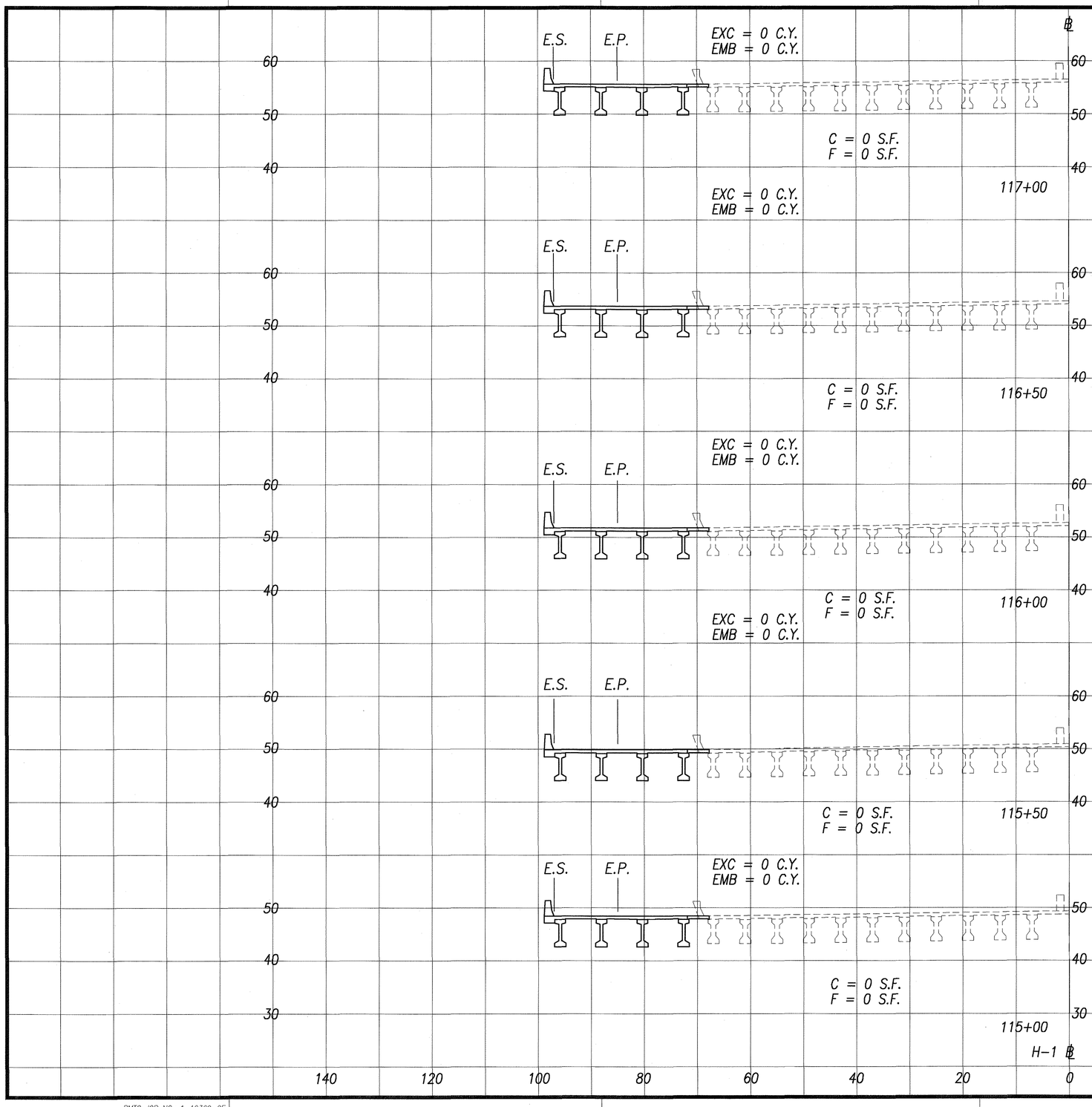
Scale: 1"=10'

Date: Mar. 31, 2003

SHEET No. AC18.18 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	335	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

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

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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 19

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

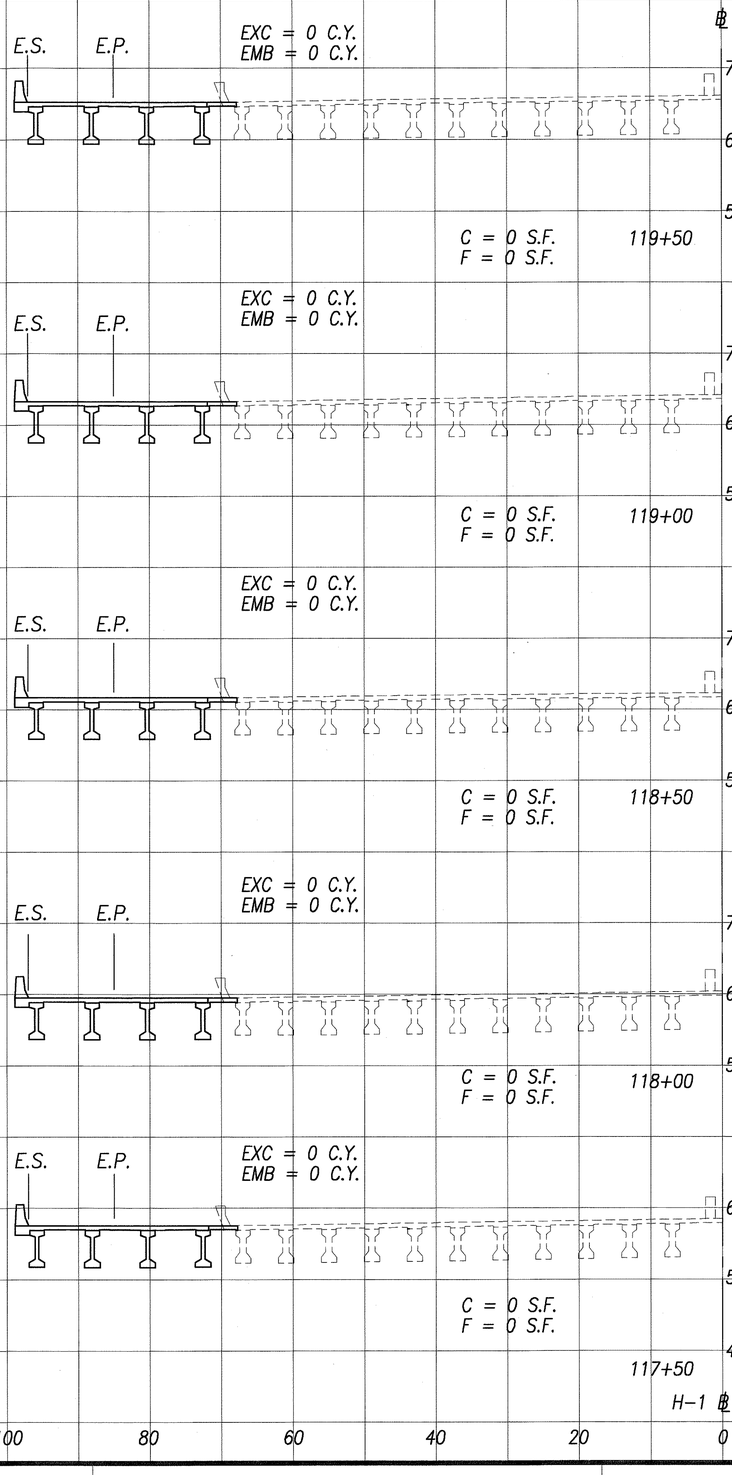
Scale: 1"=10'

Date: Mar. 31, 2003

SHEET No. AC18.19 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	336	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

ORIGINAL PLAN

NOTE BOOK No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGN BY
QUANTITIES BY
CHECKED BY
DATE

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 20

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

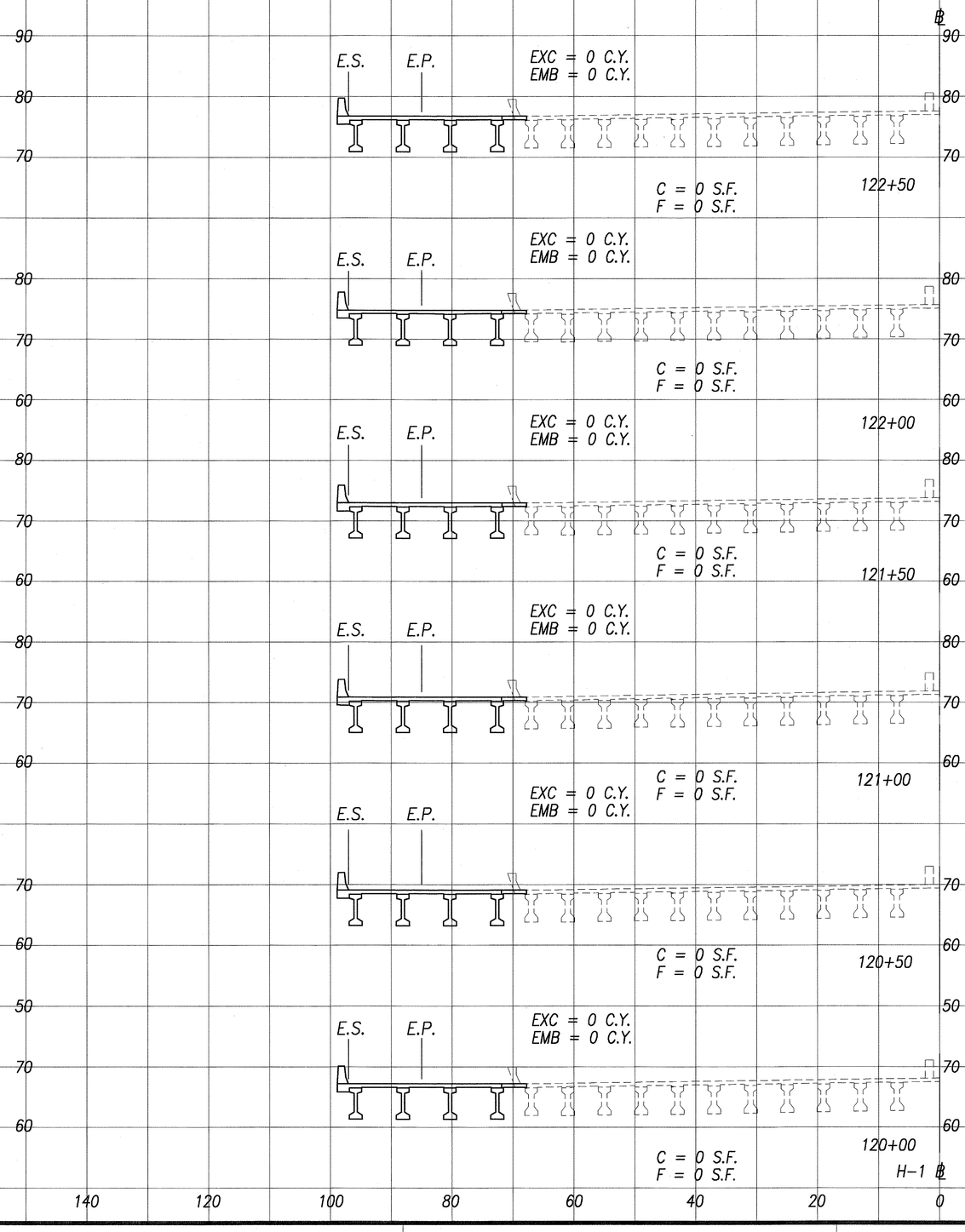
Scale: 1"=10'

Date: Mar. 31, 2003

SHEET No. AC18.200F 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	337	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

ORIGINAL PLAN

SURVEY PLOTTED BY _____ DATE

DRAWN BY _____

NOTE BOOK TRACED BY _____

DESIGNED BY _____

QUANTITIES BY _____

No. _____ CHECKED BY _____

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No. 6662-C
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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 21

INTERSTATE ROUTE H-1

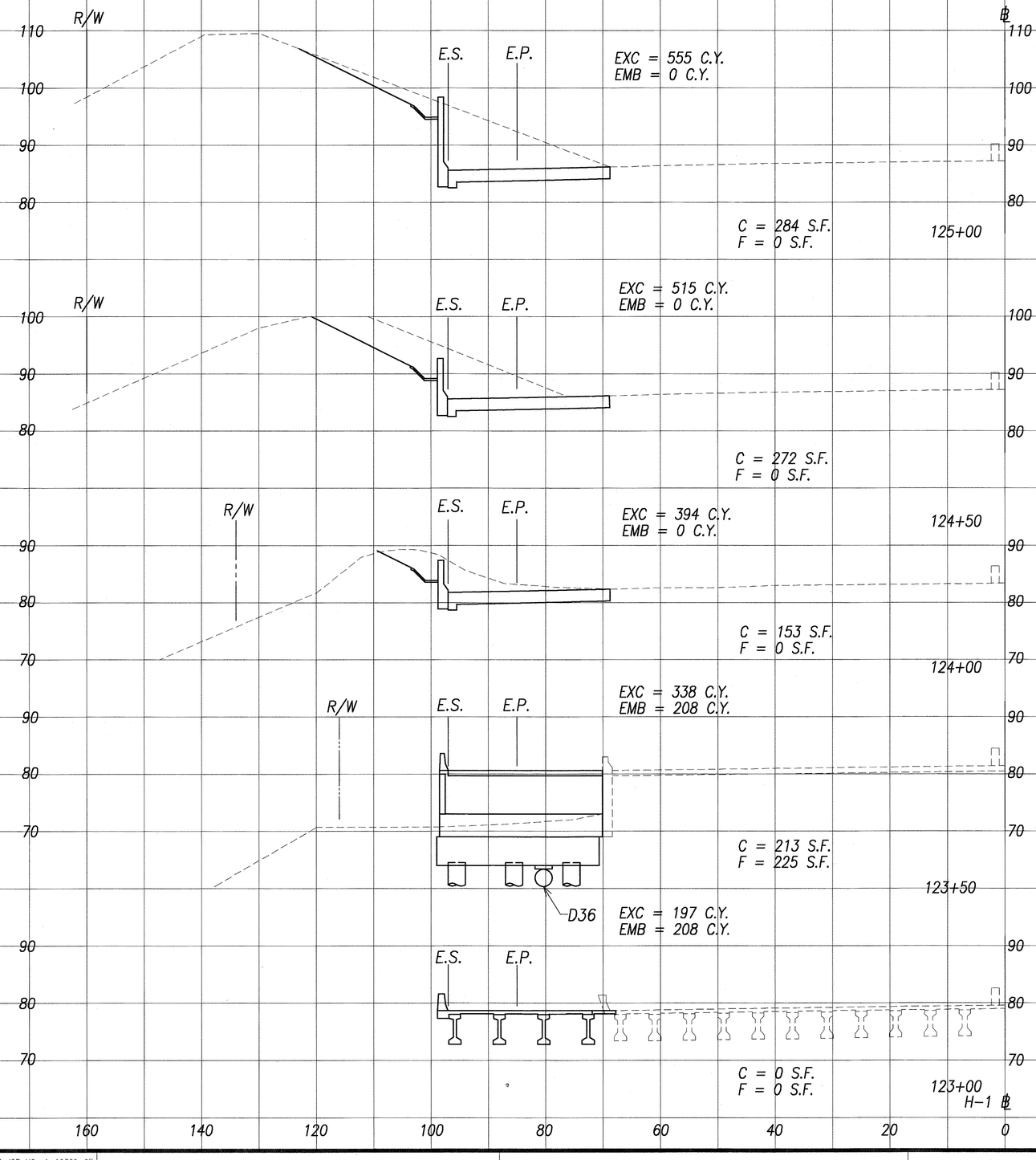
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.21 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	338	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

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

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 22

INTERSTATE ROUTE H-1

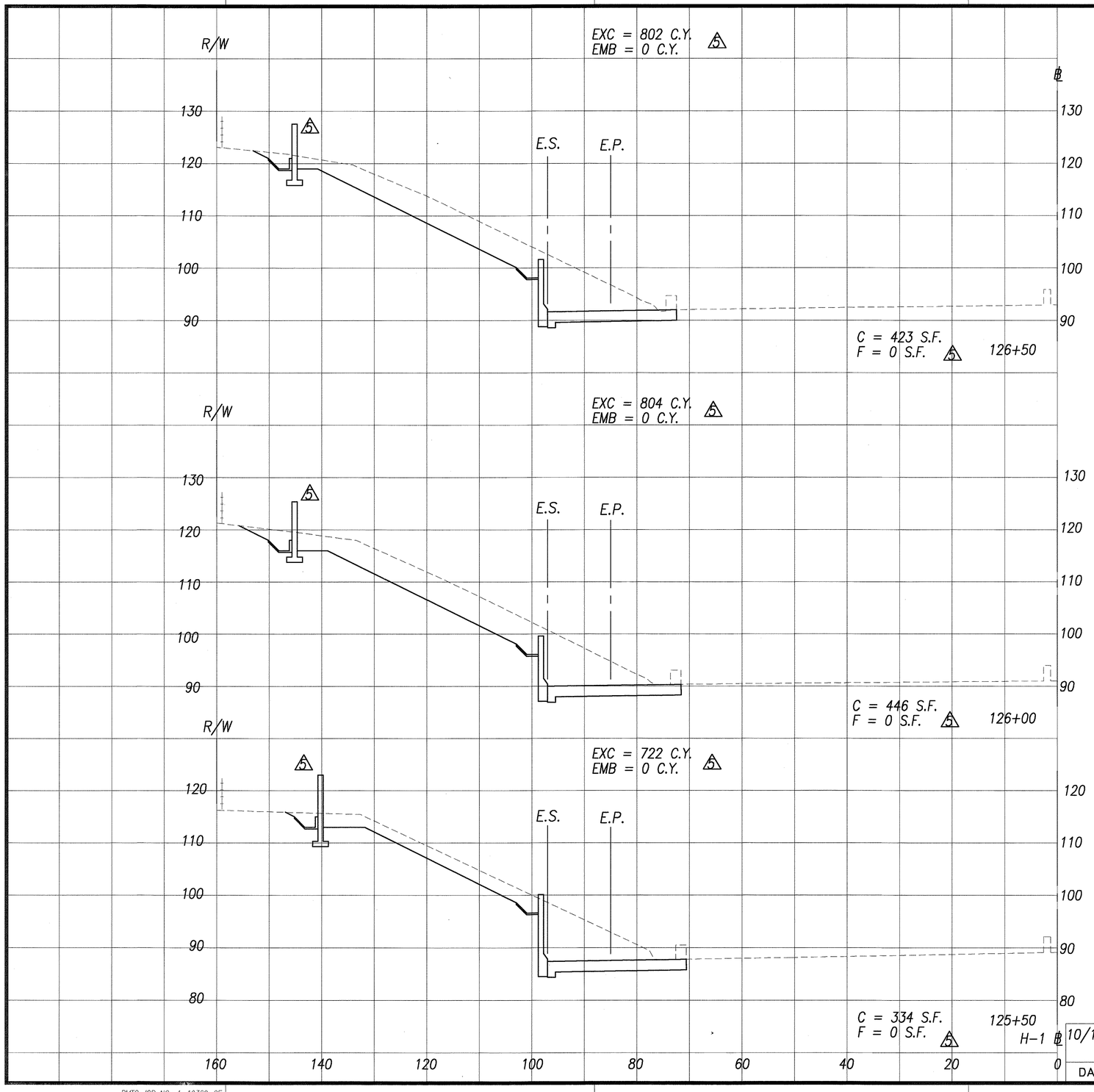
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.22OF 350 SHEETS

RMTC JOB NO.: 1-19369-OE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 339	816



ORIGINAL DRAWING BY: SURVEY PLOTTED BY, DRAWN BY, TRACED BY, DESIGNED BY, QUANTITIES BY, CHECKED BY, DATE

NOTE BOOK, No.

RMTC JOB NO.: 1-19369-0E

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE / 10/31/04 EXPIRATION DATE OF THE LICENSE

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 23

INTERSTATE ROUTE H-1

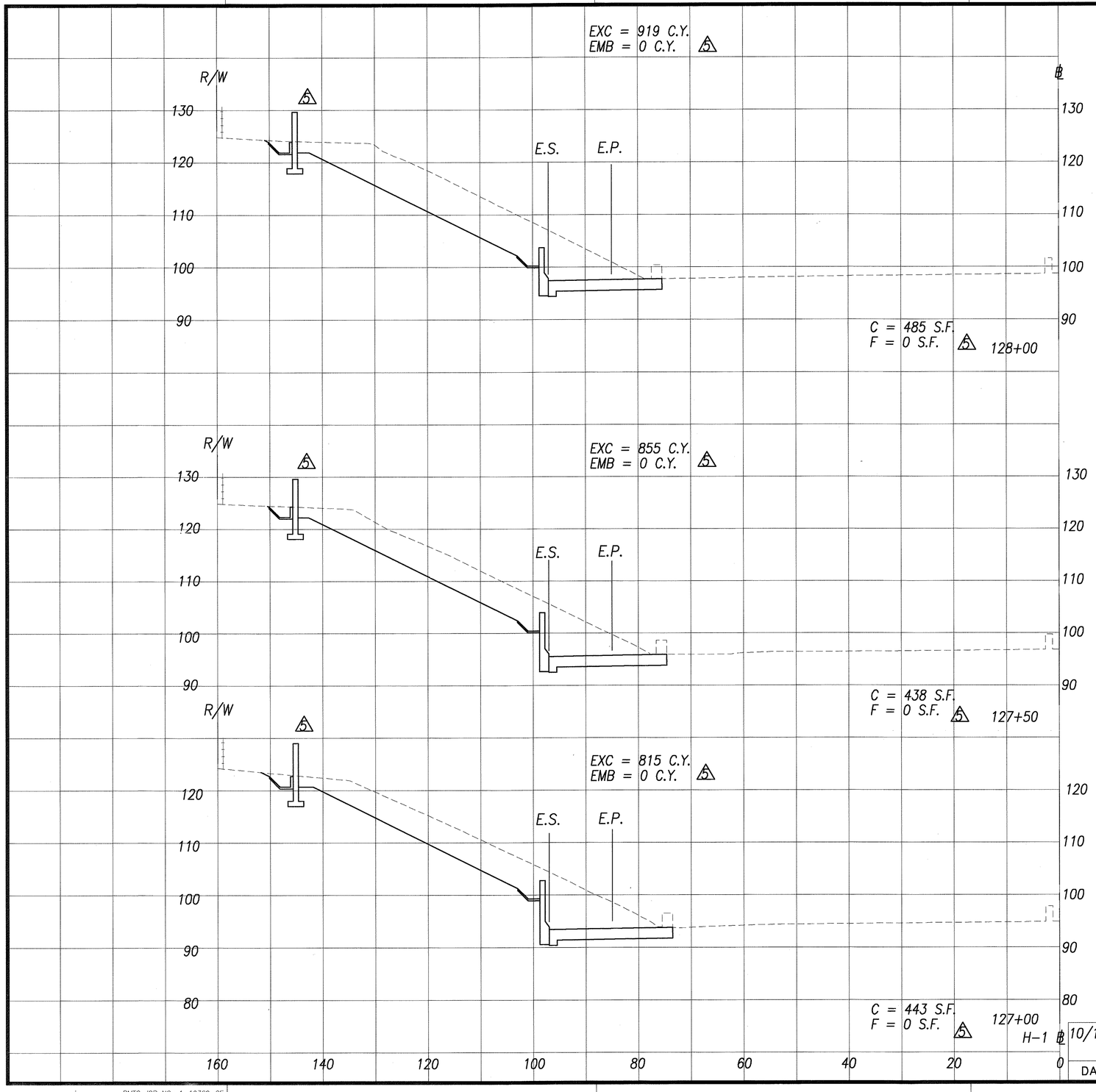
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.23OF 350 SHEETS

ADD. 339

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 340	816



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

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

GREG H. HIYAKUMOTO
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HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 24

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

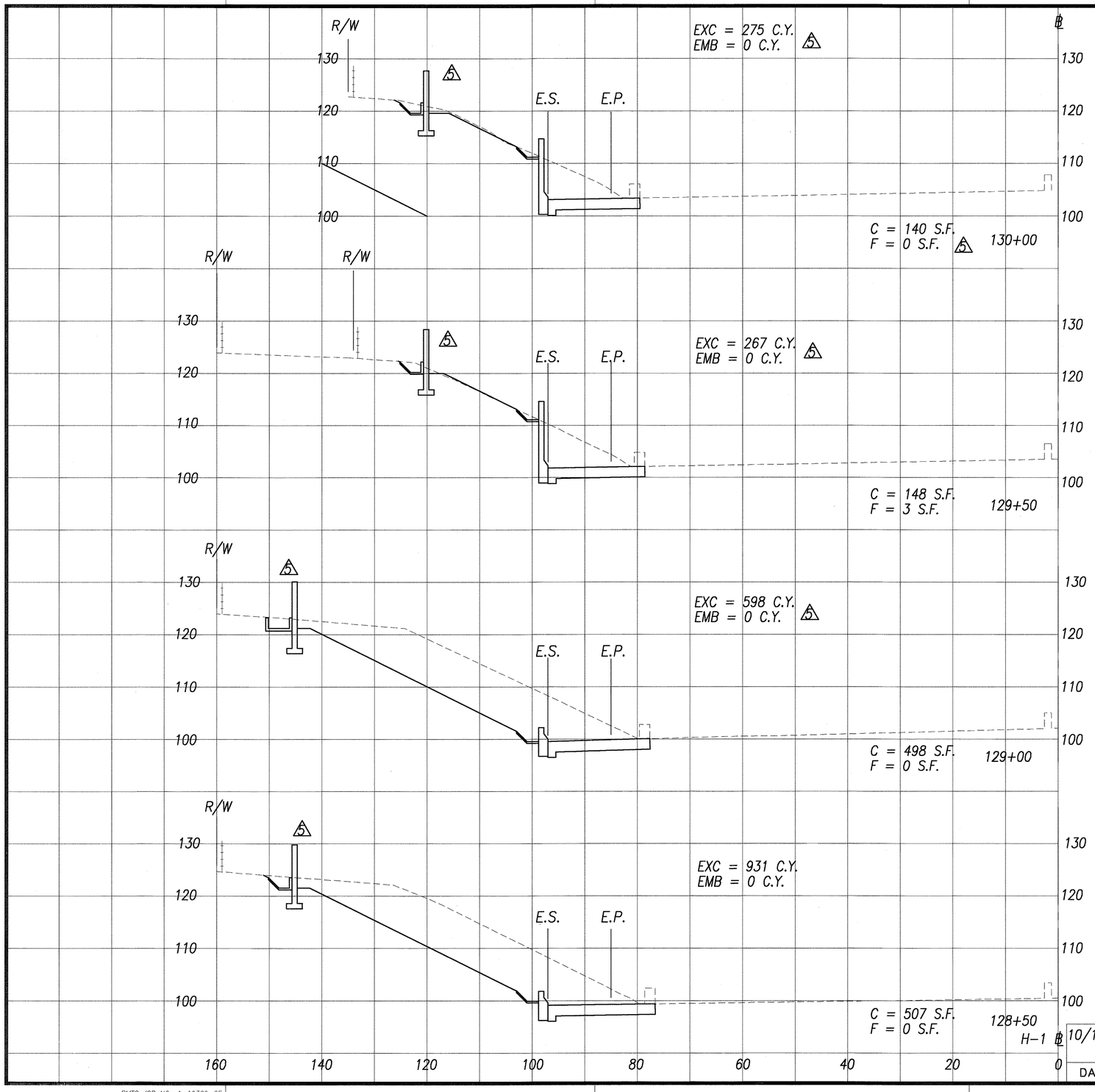
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.24OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 340

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 341	816



ORIGINAL PLAN

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

RMTC JOB NO.: 1-19369-0E

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 25

INTERSTATE ROUTE H-1

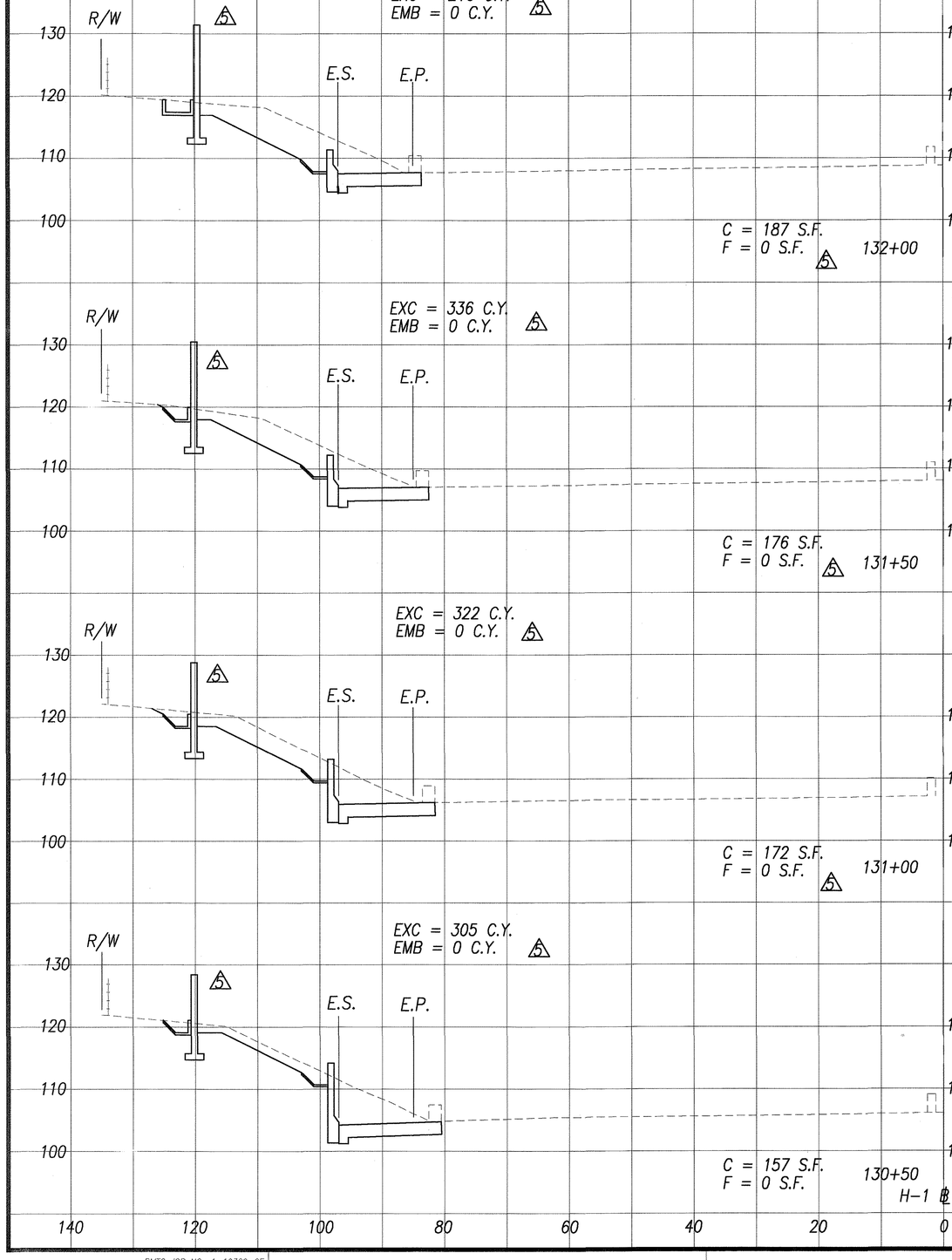
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

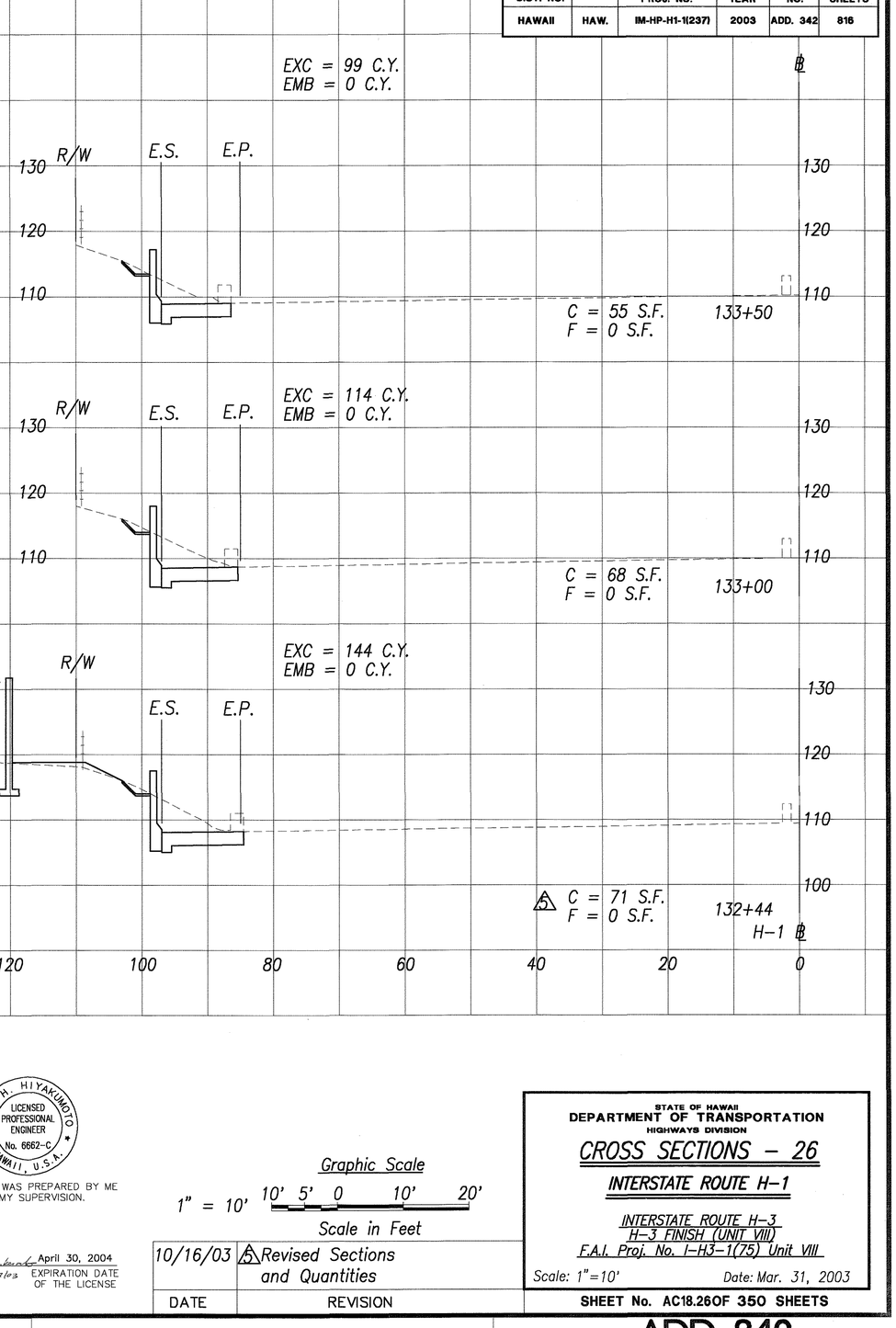
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.25OF 350 SHEETS

ADD. 341

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 342	816





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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 26

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

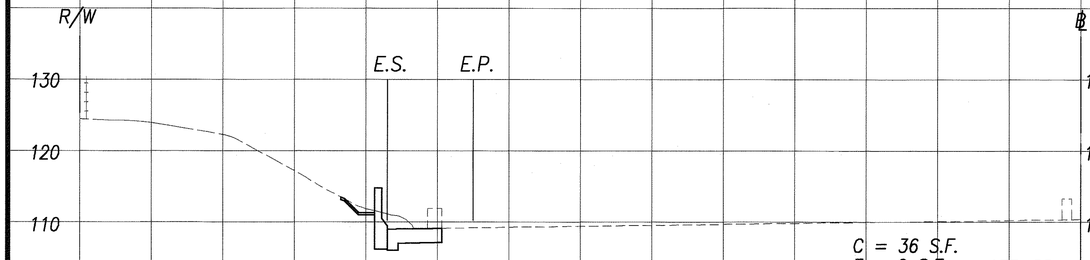
SHEET No. AC18.26OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

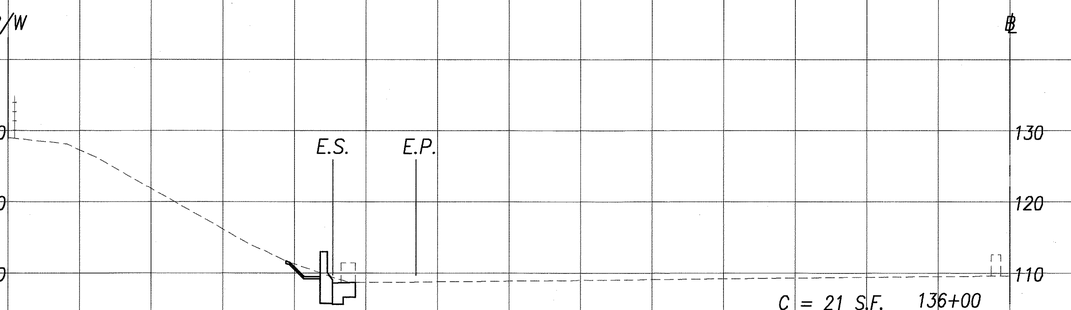
ADD. 342

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	343	816

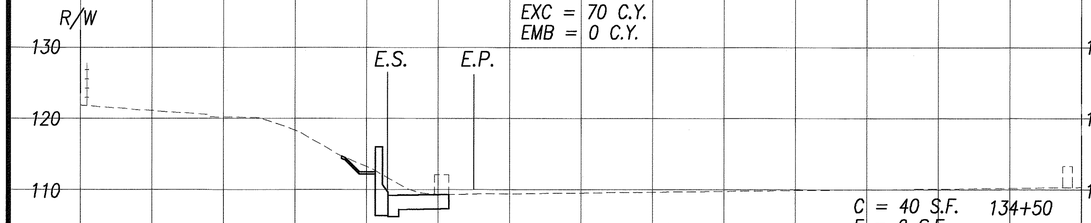
EXC = 64 C.Y.
EMB = 0 C.Y.



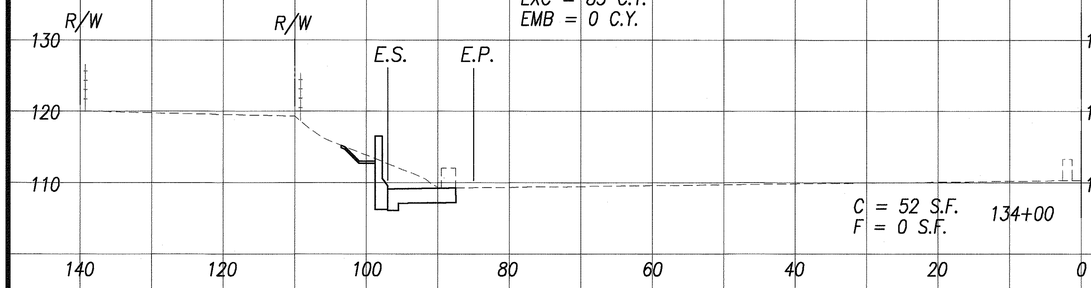
EXC = 68 C.Y.
EMB = 0 C.Y.



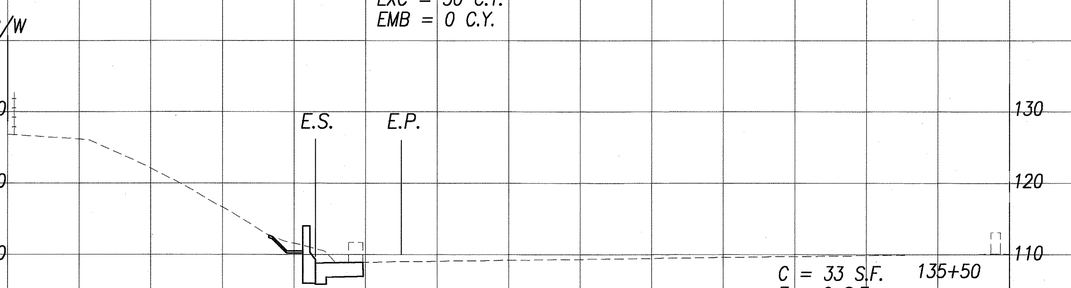
EXC = 70 C.Y.
EMB = 0 C.Y.



EXC = 85 C.Y.
EMB = 0 C.Y.



EXC = 50 C.Y.
EMB = 0 C.Y.



Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

GREG H. HIYAKUMOTO
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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 27

INTERSTATE ROUTE H-1

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10'
Date: Mar. 31, 2003

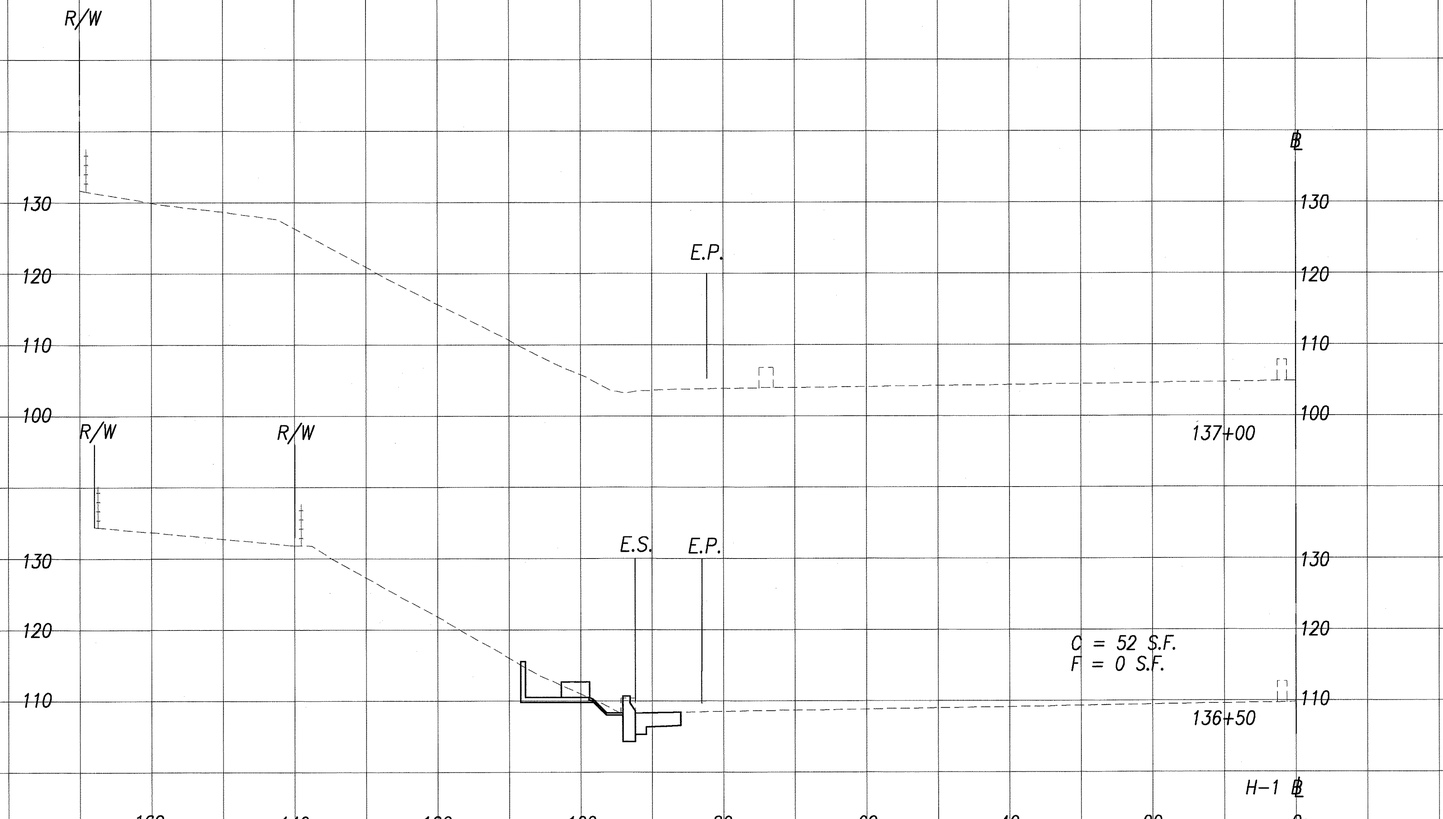
SHEET No. AC18.27 OF 350 SHEETS

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

RMTC JOB NO.: 1-19.369-0E

343

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	344	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

ORIGINAL PLAN

NOTE BOOK No.

SURVEY PLOTTED BY DATE
DRAFT BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 28

INTERSTATE ROUTE H-1

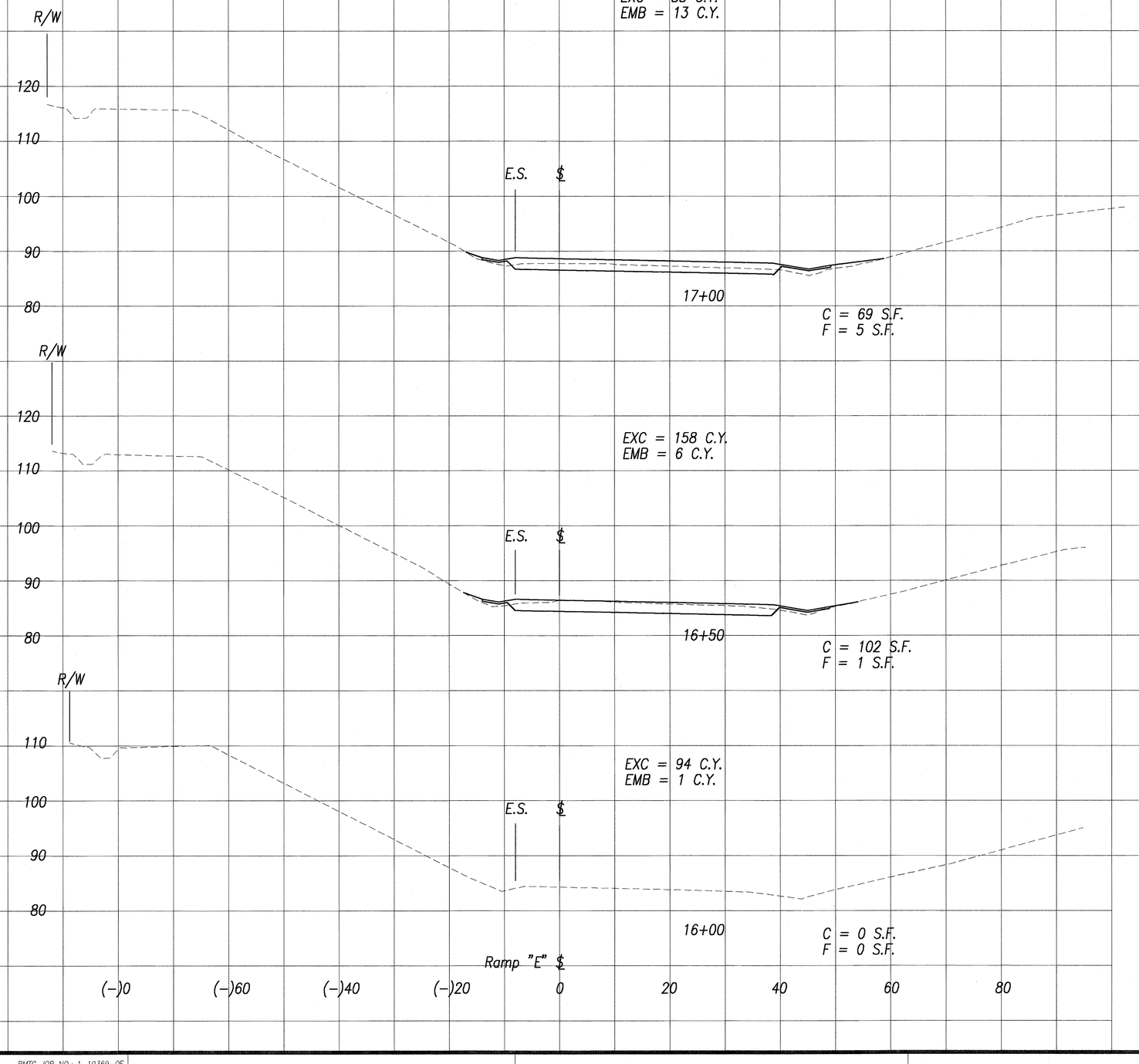
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.28 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	345	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE — EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 1

RAMP "E"

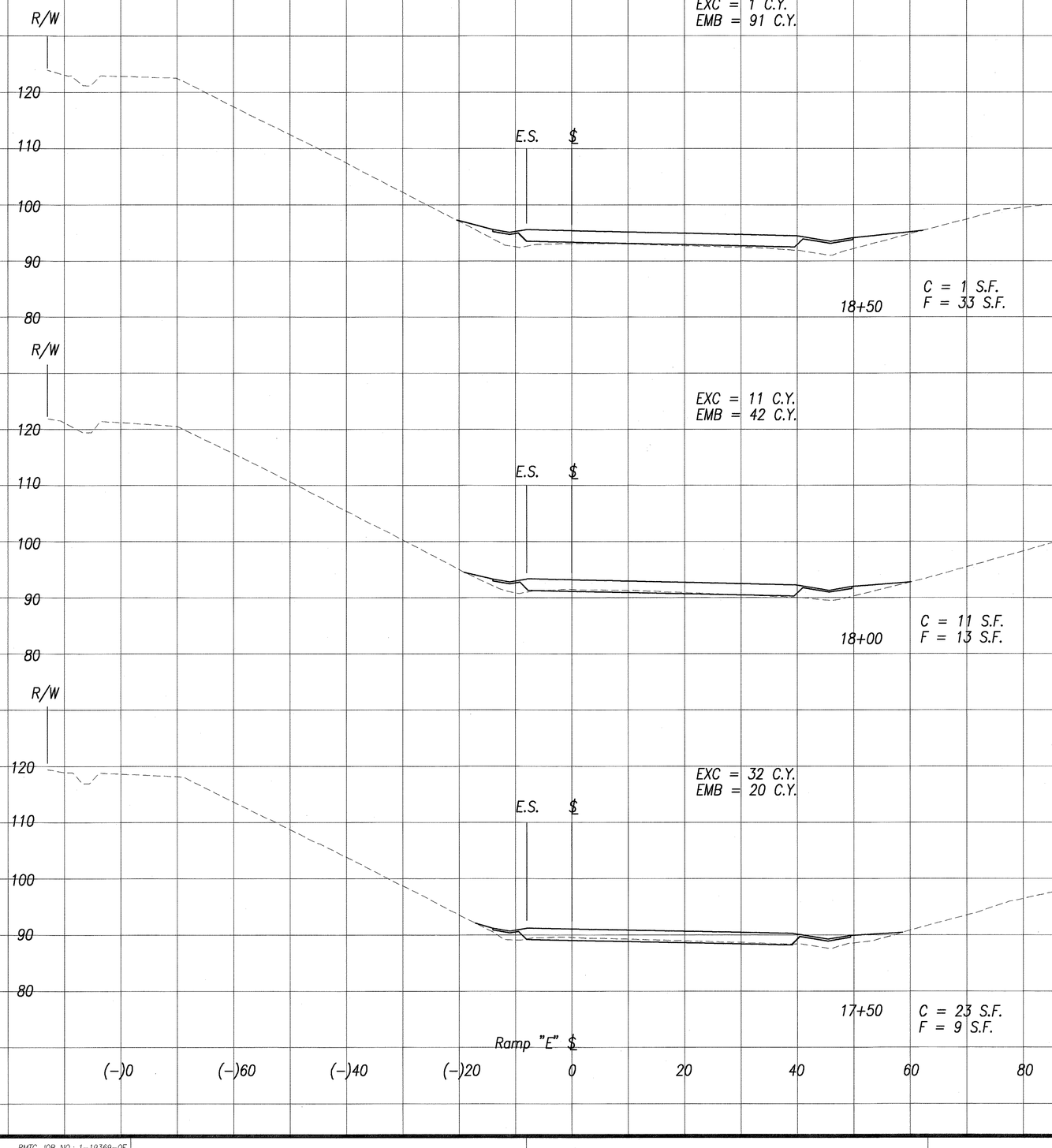
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.29 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	346	816



Graphic Scale

1" = 10' 10' 5' 0 10' 20'

Scale in Feet

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

GREG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 2

RAMP "E"

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.30 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

346

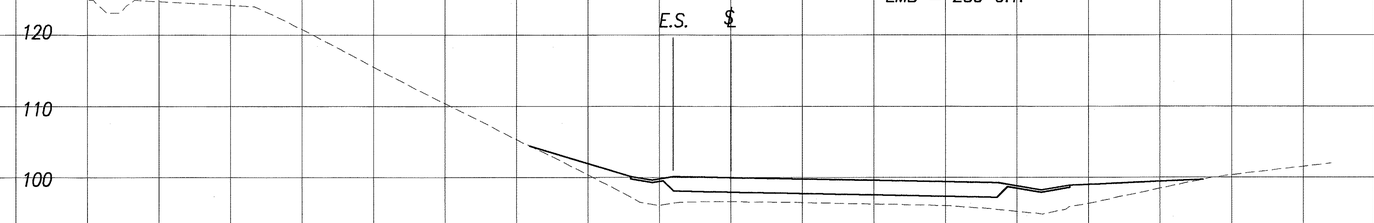
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	347	816

EXC = 0 C.Y.
EMB = 449 C.Y.



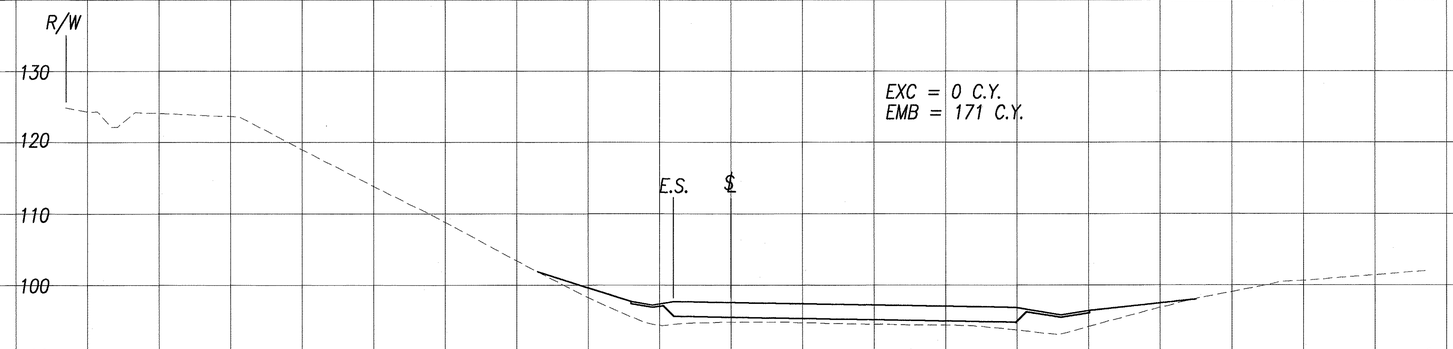
20+00 C = 0 S.F.
F = 188 S.F.

EXC = 0 C.Y.
EMB = 285 C.Y.



19+50 C = 0 S.F.
F = 120 S.F.

EXC = 0 C.Y.
EMB = 171 C.Y.



19+00 C = 0 S.F.
F = 65 S.F.

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

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

GREG H. HIYAKUMOTO
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No. 6662-C
HAWAII, U.S.A.

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SIGNATURE — EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 3

RAMP "E"

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

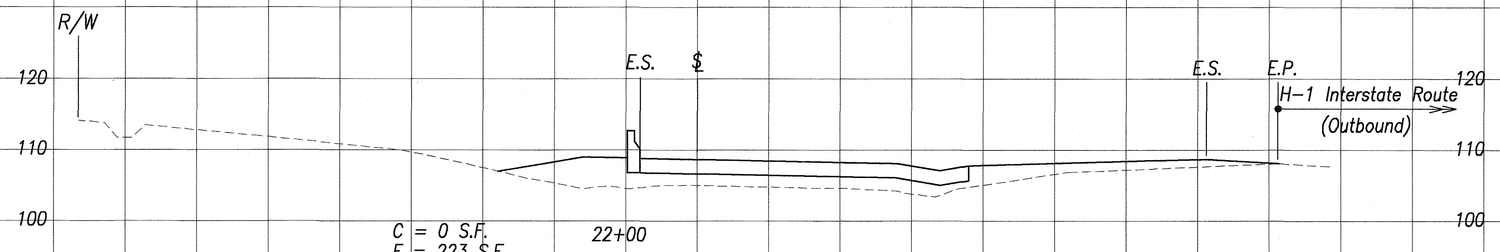
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.31 OF 350 SHEETS

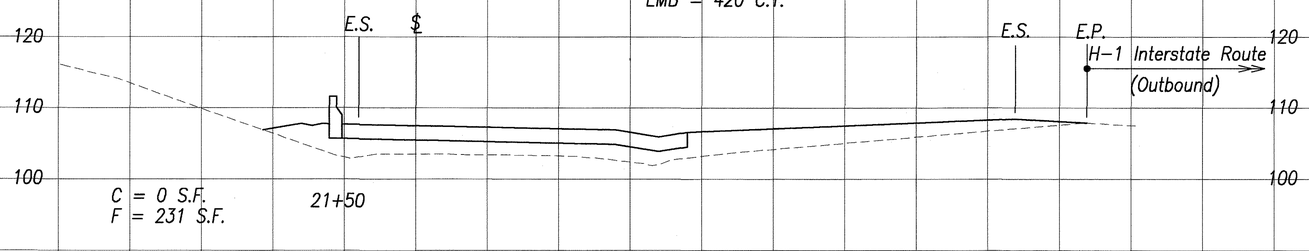
RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	348	816

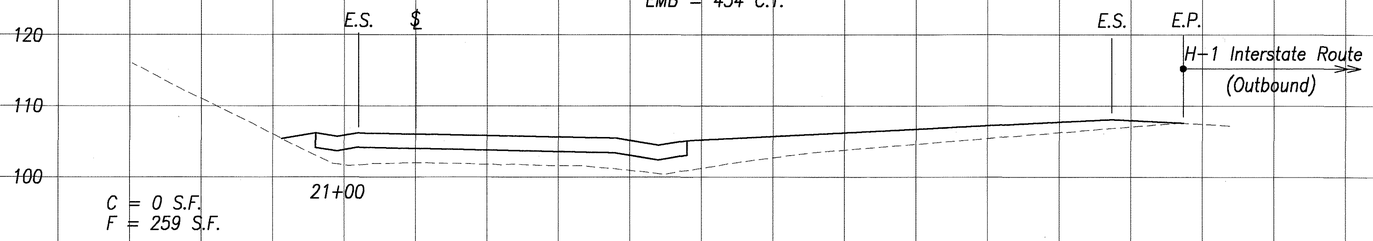
EXC = 0 C.Y.
EMB = 340 C.Y.



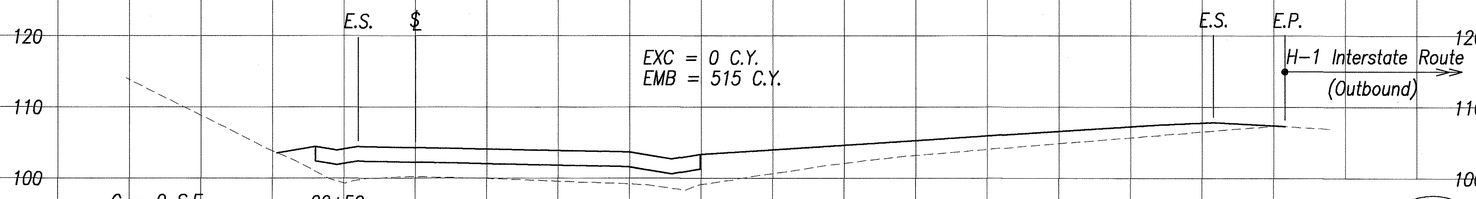
EXC = 0 C.Y.
EMB = 420 C.Y.



EXC = 0 C.Y.
EMB = 454 C.Y.



EXC = 0 C.Y.
EMB = 515 C.Y.



Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

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SIGNATURE

April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS - 4

RAMP "E"

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10'
Date: Mar. 31, 2003

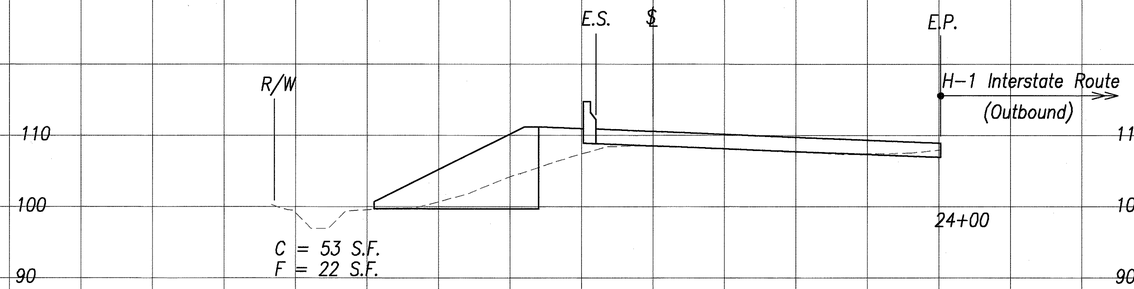
SHEET No. AC18.32 OF 350 SHEETS

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

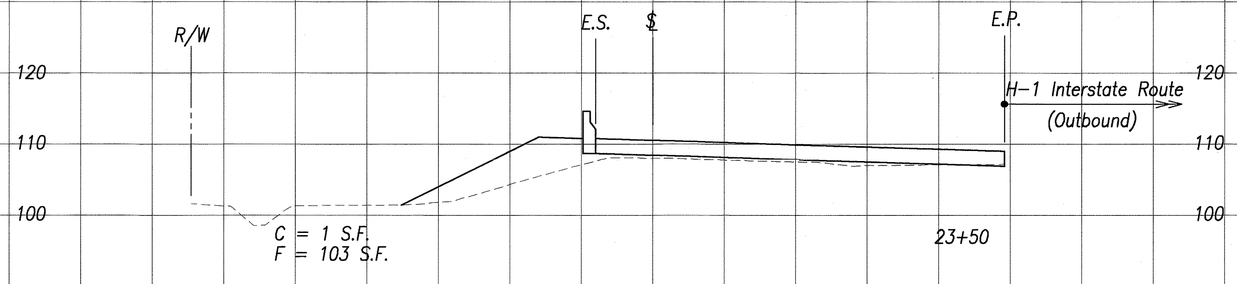
RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	349	816

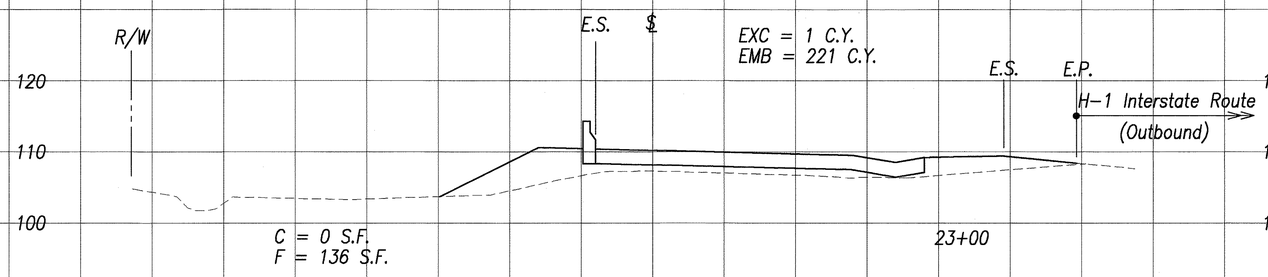
EXC = 79 C.Y.
EMB = 41 C.Y.



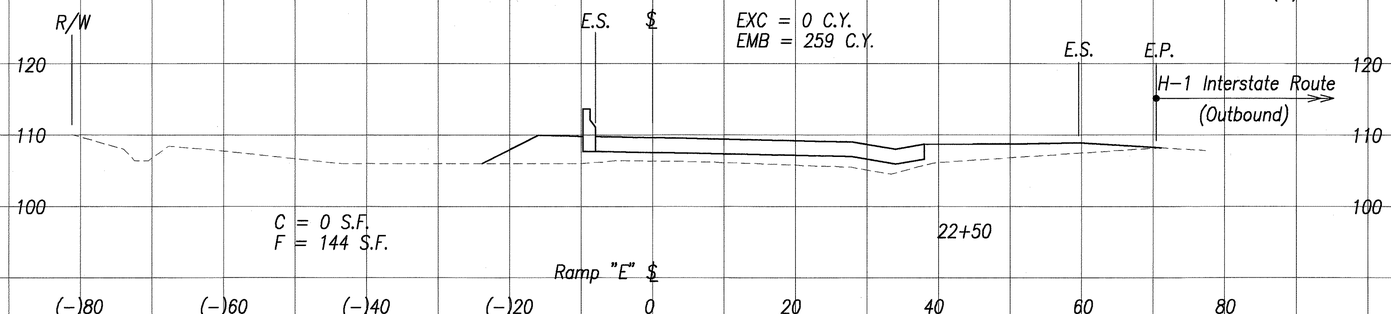
EXC = 50 C.Y.
EMB = 116 C.Y.



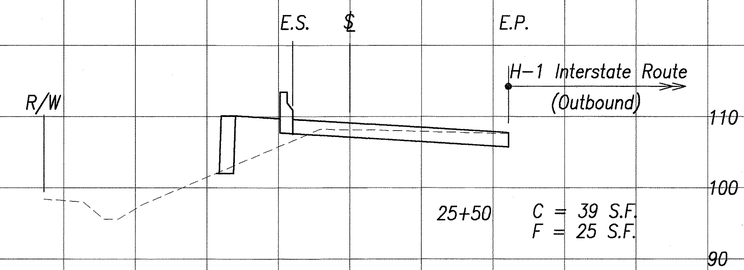
EXC = 1 C.Y.
EMB = 221 C.Y.



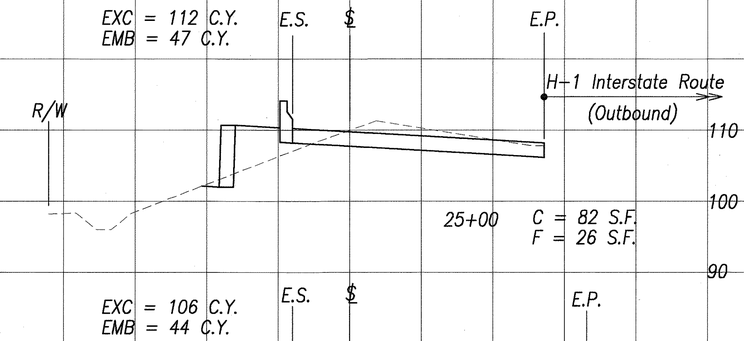
EXC = 0 C.Y.
EMB = 259 C.Y.



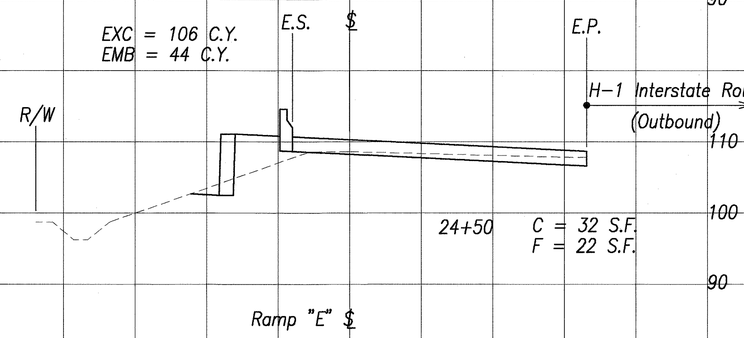
EXC = 62 C.Y.
EMB = 58 C.Y.

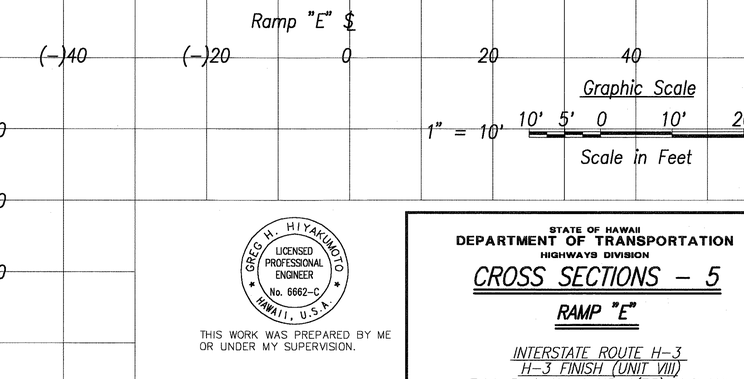


EXC = 112 C.Y.
EMB = 47 C.Y.



EXC = 106 C.Y.
EMB = 44 C.Y.





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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

GREGG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

SIGNATURE — April 30, 2004 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 5

RAMP "E"

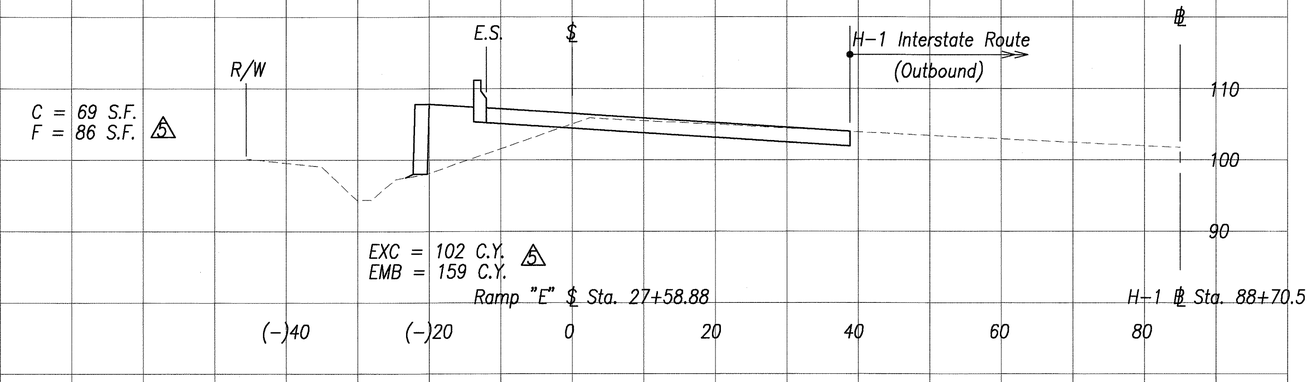
INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

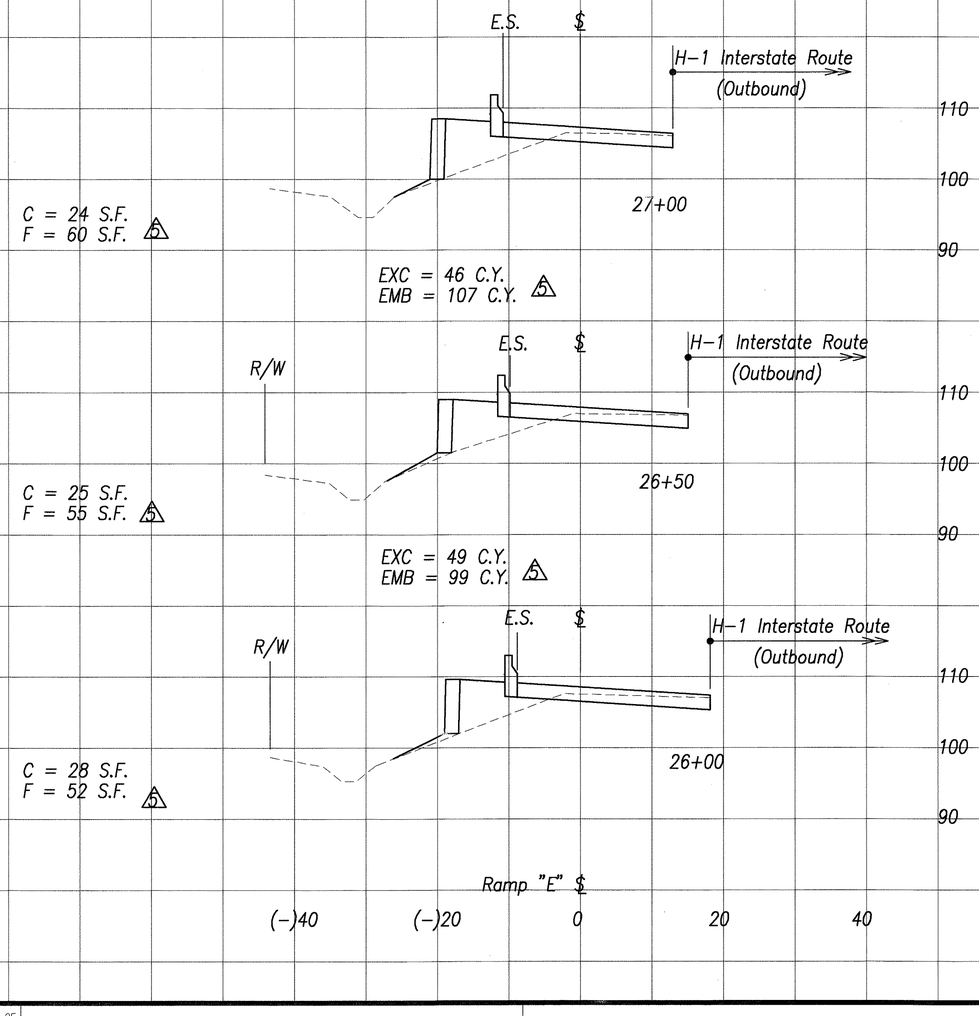
Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.33 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HP-H1-1(237)	2003	ADD. 350	816





5

H–1 Interstate Route Widening, Waimalu Viaduct Earthwork			
H–1		Ramp "E"	
EXC (CY.)	EMB (CY.)	EXC (CY.)	EMB (CY.)
26544	7419	988	3958

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

GREGG H. HIYAKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6662-C
HAWAII, U.S.A.

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April 30, 2004
SIGNATURE EXPIRATION DATE OF THE LICENSE

Graphic Scale
1" = 10' 10' 5' 0 10' 20'
Scale in Feet

DATE	REVISION
10/16/03	5 Revised Sections and Quantities

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS – 6

RAMP "E"

INTERSTATE ROUTE H-3
H-3 FINISH (UNIT VIII)
F.A.I. Proj. No. I-H3-1(75) Unit VIII

Scale: 1"=10' Date: Mar. 31, 2003

SHEET No. AC18.34 OF 350 SHEETS

RMTC JOB NO.: 1-19369-0E

ADD. 350