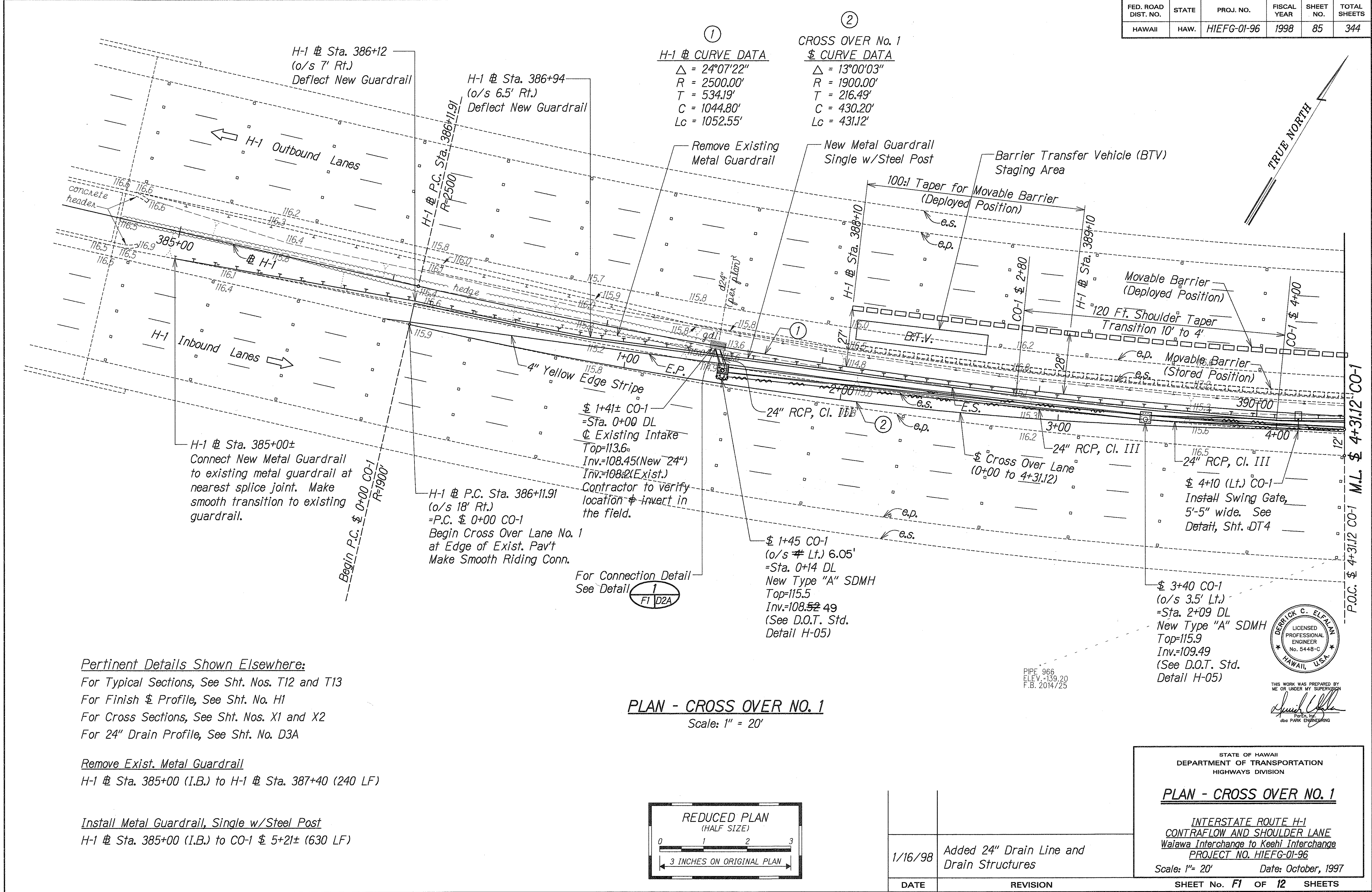


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	85	344



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

PLAN - CROSS OVER NO. 1
Scale: 1" = 20'



1/16/98	Added 24" Drain Line and Drain Structures
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN - CROSS OVER NO. 1

INTERSTATE ROUTE H-1
CONTRAFLOW AND SHOULDER LANE
Waialae Interchange to Keolu Interchange
PROJECT NO. HIEFG-01-96

Scale: 1" = 20' Date: October, 1997

SHEET No. F1 OF 12 SHEETS

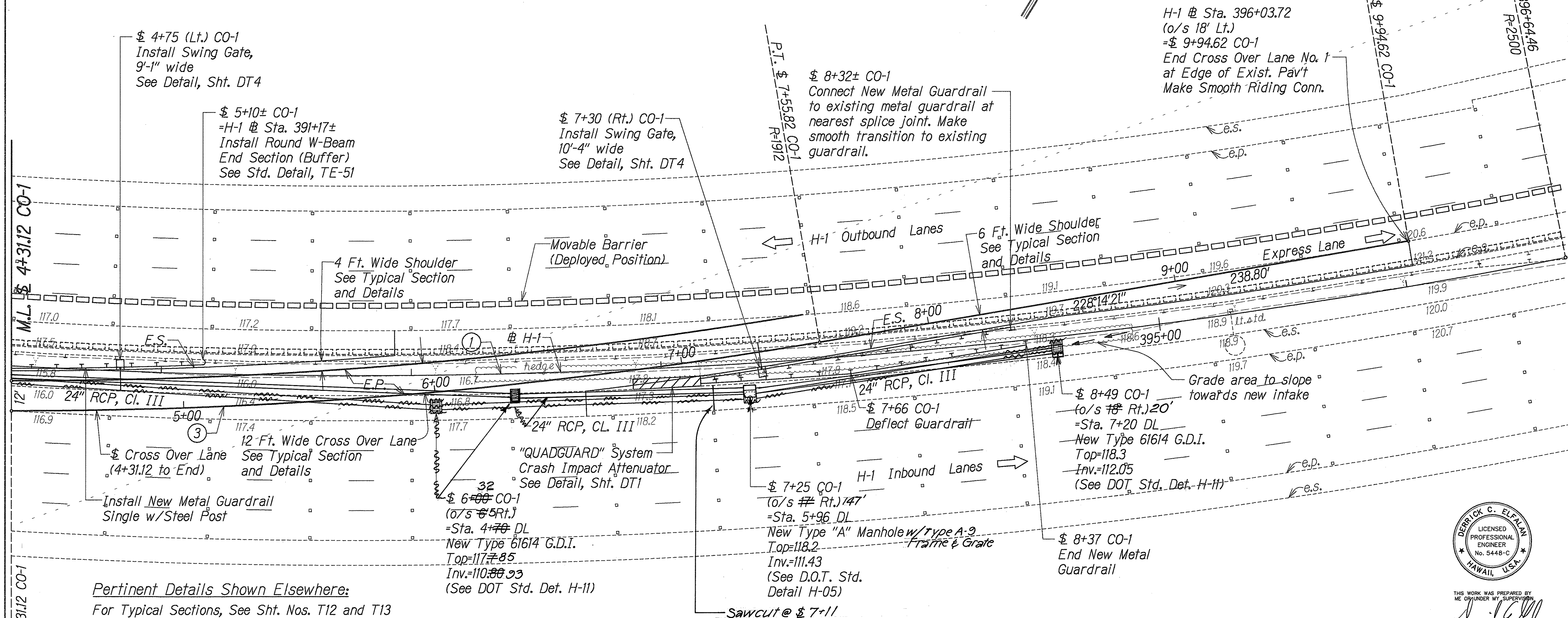
"AS-BUILT"

C.O. 85

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	C.O.86	344

①
H-1 CURVE DATA
 $\Delta = 24^{\circ}07'22''$
 $R = 2500.00'$
 $T = 534.19'$
 $C = 1044.80'$
 $L_c = 1052.55'$

③
CROSS OVER No. 1
 CURVE DATA
 $\Delta = 9^{\circ}43'48''$
 $R = 1912.00'$
 $T = 162.74'$
 $C = 324.31'$
 $L_c = 324.70'$

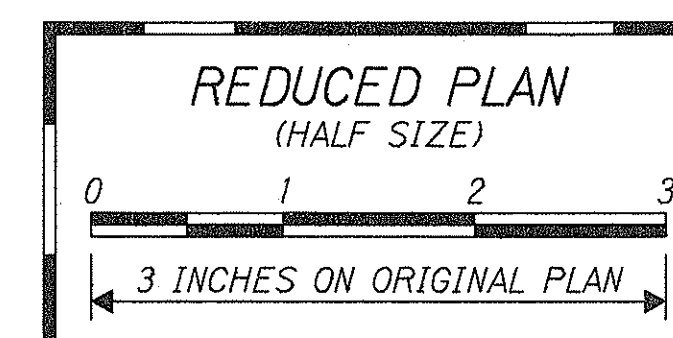


Pertinent Details Shown Elsewhere:
 For Typical Sections, See Sht. Nos. T12 and T13
 For Finish & Profile, See Sht. No. H1
 For Cross Sections, See Sht. Nos. X1 and X2
 For 24" Drain Profile, See Sht. No. D3A

Remove Exist. Metal Guardrail
 H-1 Sta. 391+15 (O.B.) to H-1 Sta. 394+40 (325 LF)

Install Metal Guardrail, Single w/Steel Post
 H-1 Sta. 393+15 (I.B.) to H-1 Sta. 394+46 (131 LF)
 CO-1 Sta. 7+05 (Rt.) to Sta. 8+32 (127 LF)

PLAN - CROSS OVER NO. 1
 Scale: 1" = 20'



DATE	REVISION
2/26/98	Added 24" Drain Line and Drain Structures and revised Guardrail (Inbound)

PLAN - CROSS OVER NO. 1

INTERSTATE ROUTE H-1
 CONTRAFLOW AND SHOULDER LANE
 Waiala Interchange to Keolu Interchange
 PROJECT NO. HIEFG-01-96
 Scale: 1" = 20' Date: October, 1997

SHEET No. F2 OF 12 SHEETS

"AS-BUILT"

C.O. 86

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	

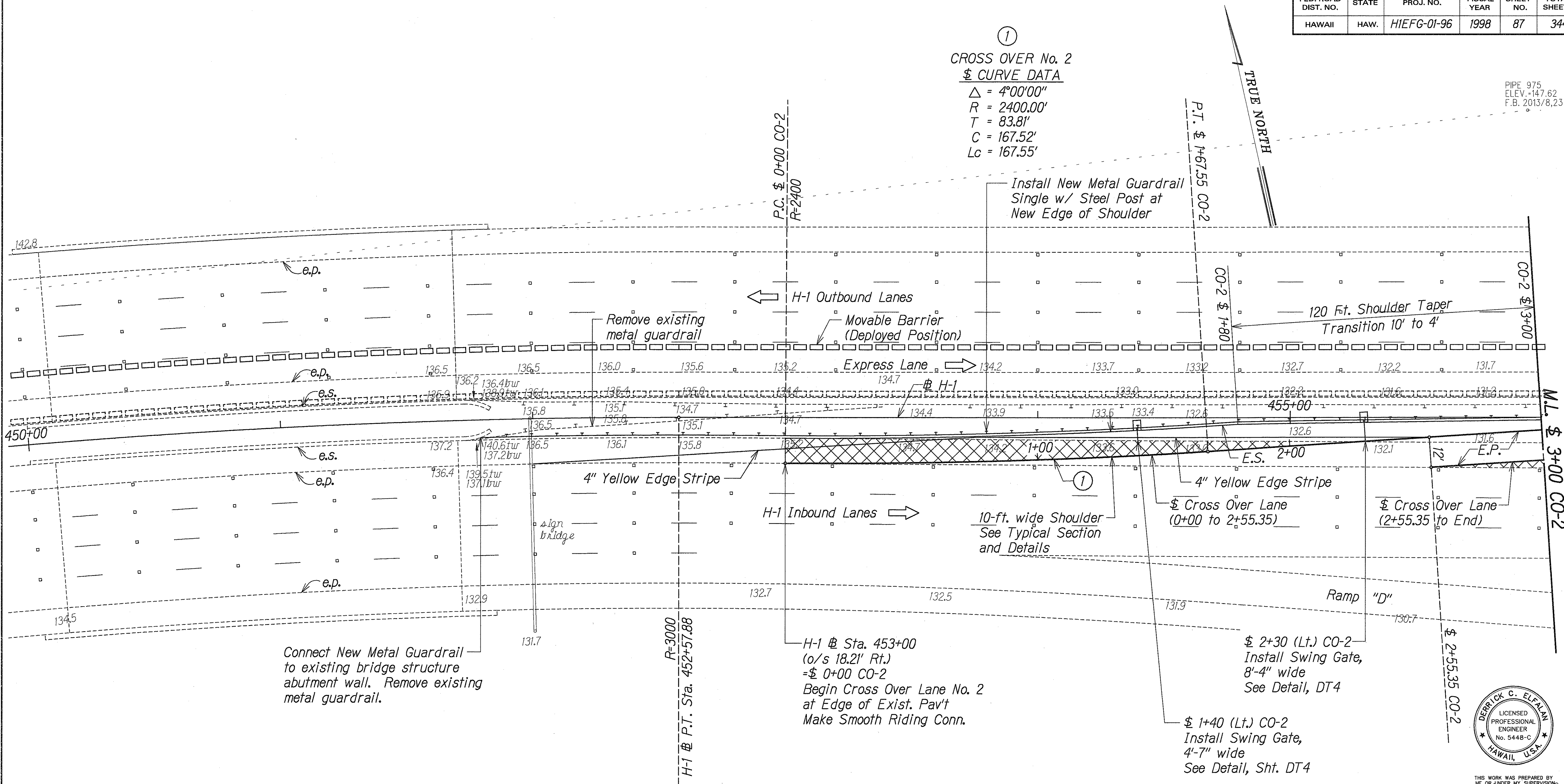


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 Derrick C. Elfa
 P.E., Inc.
 400 PARK ENGINEERING

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	87	344

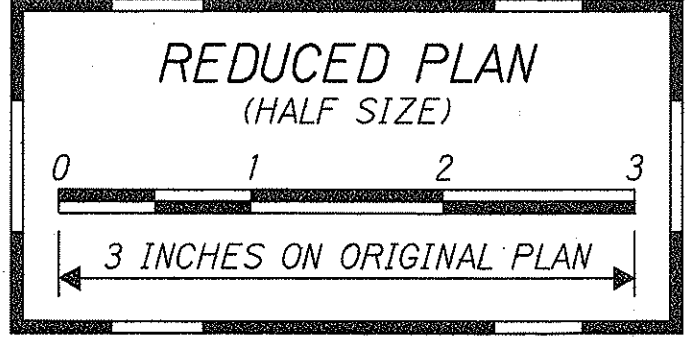
PIPE 975
ELEV. = 147.62
F.B. 2013/8,23

①
CROSS OVER No. 2
\$ CURVE DATA
 $\Delta = 4^{\circ}00'00''$
 $R = 2400.00'$
 $T = 83.81'$
 $C = 167.52'$
 $L_c = 167.55'$



PLAN - CROSS OVER NO. 2

Scale: 1" = 20'



Pertinent Details Shown Elsewhere:
For Typical Sections, See Sht. Nos. T14 and T15
For Finish \$ Profile, See Sht. No. H1
For Cross Sections, See Sht. Nos. X3 to X5

Remove Exist. Metal Guardrail
H-1 I.B. @ Sta. 451+80 (Lt.) to @ Sta. 453+40 (160 LF)

Install Metal Guardrail, Single w/Steel Post
H-1 I.B. @ Sta. 451+78 (Lt.) to CO-2 \$ 3+80 (501 LF)

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

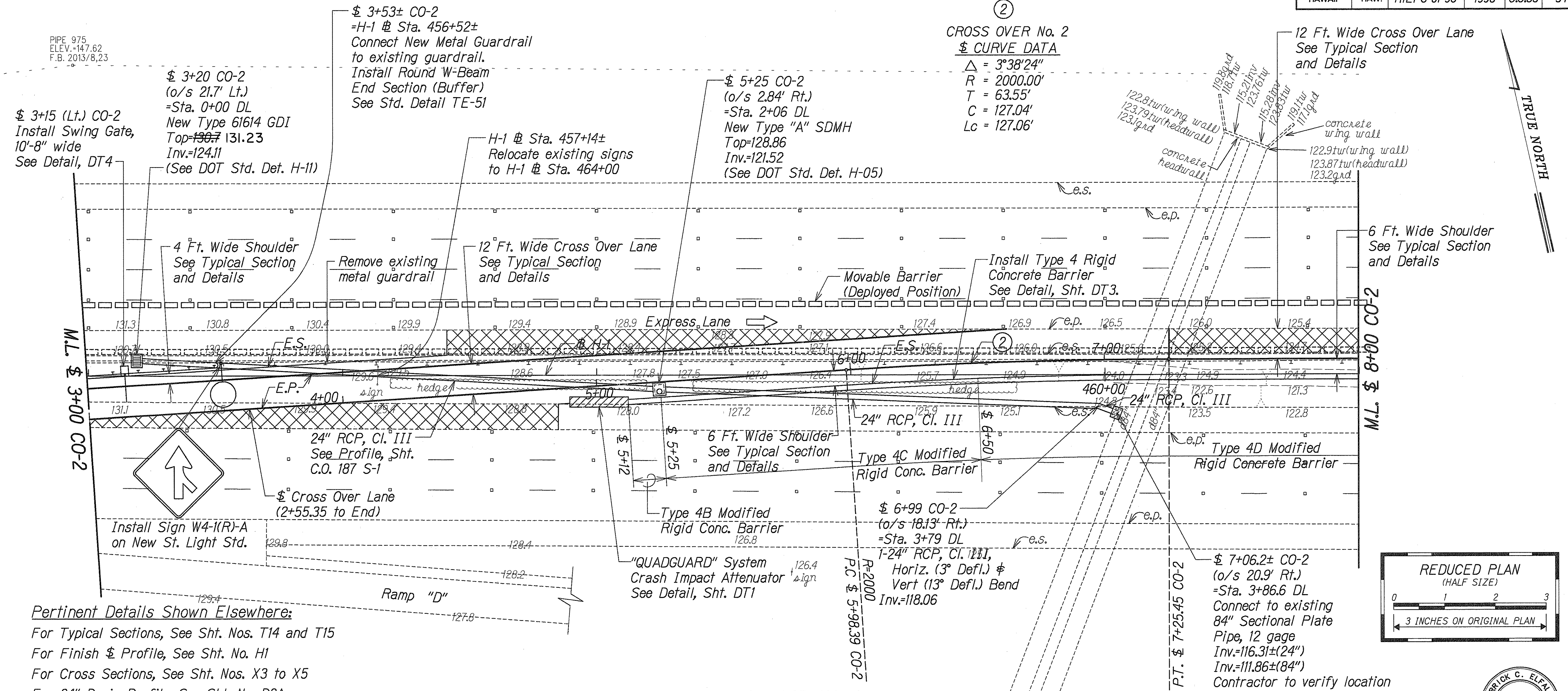


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For En, Inc.
dba PARK ENGINEERING

PLAN - CROSS OVER NO. 2

INTERSTATE ROUTE H-1
CONTRAFLOW AND SHOULDER LANE
Waiala Interchange to Keahi Interchange
PROJECT NO. HIEFG-01-96
Scale: 1" = 20' Date: October, 1997

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	C.O.88	344



PLAN - CROSS OVER NO. 2
 Scale: 1" = 20'

- Remove Exist. Metal Guardrail**
 H-1 O.B. Sta. 456+52 (Lt.) to Sta. 464+80 (828 LF)
- Install Type 4B Modified Rigid Concrete Barrier**
 CO-2 Sta. 5+12 (Rt.) to Sta. 5+40 (28 LF)
- Install Type 4C Modified Rigid Concrete Barrier**
 CO-2 Sta. 5+40 (Rt.) to Sta. 7+50 (210 LF)
- Install Type 4D Modified Rigid Concrete Barrier**
 CO-2 Sta. 7+50 (Rt.) to Sta. 8+50 (100 LF)
- Install Metal Guardrail, Single w/Steel Post**
 H-1 I.B. Sta. 451+78 (Lt.) to CO-2 Sta. 3+80 (501 LF)

DATE	REVISION
7/06/98	Added Sign W4-1(R)-A
5/27/98	Revised Barrier Wall Stations
4/25/98	Revised 24" Drain Line
2/26/98	Added 24" Drain Line and Drain Structures and added Note for relocating Sign.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PLAN - CROSS OVER NO. 2

INTERSTATE ROUTE H-1
 CONTRAFLOW AND SHOULDER LANE
 Waialae Interchange to Keolu Interchange
 PROJECT NO. HIEFG-01-96

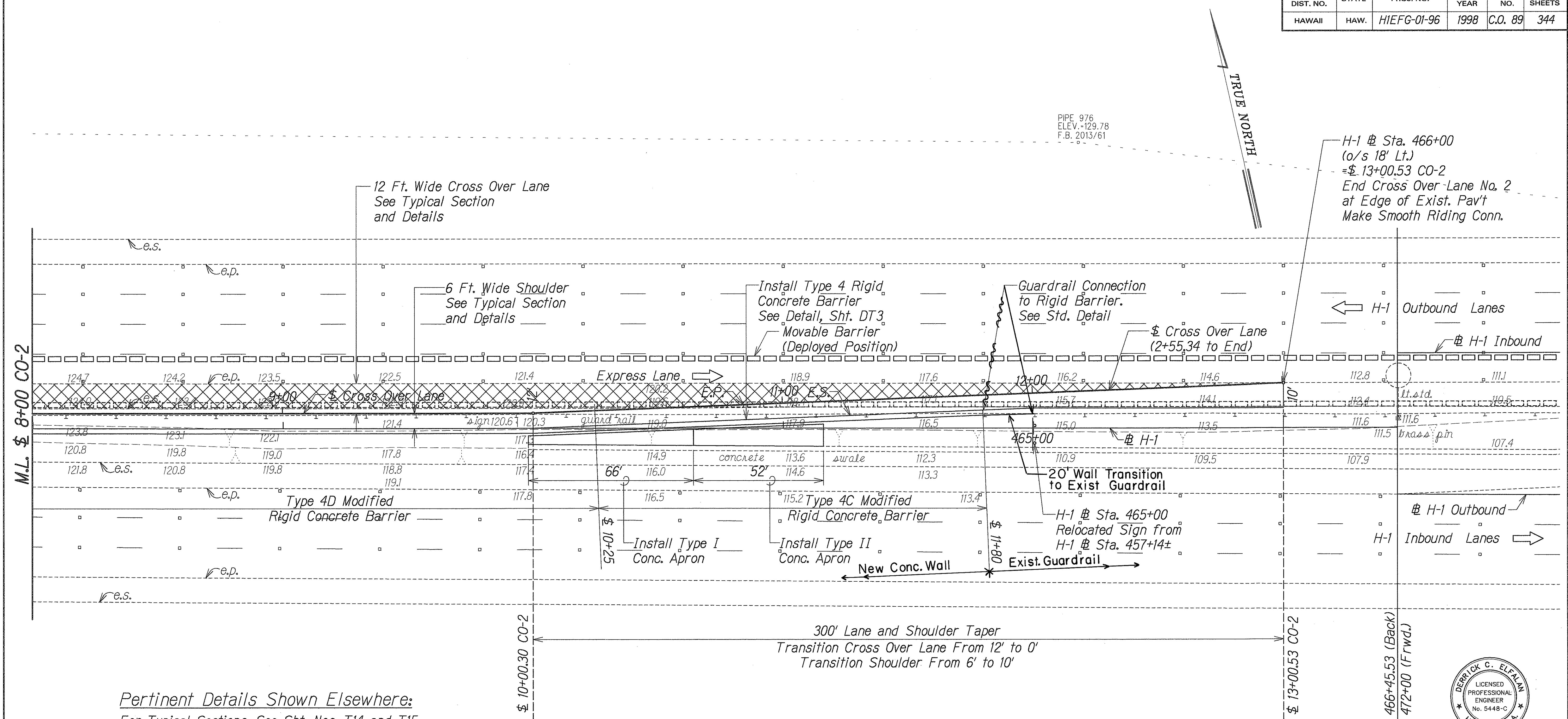
Scale: 1" = 20' Date: October, 1997

SHEET No. **F4** OF **12** SHEETS

"AS-BUILT"

C.O. 88

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	C.O. 89	344



Pertinent Details Shown Elsewhere:
 For Typical Sections, See Sht. Nos. T14 and T15
 For Finish & Profile, See Sht. No. H1
 For Cross Sections, See Sht. Nos. X3 to X5

Remove Exist. Metal Guardrail
 H-1 I.B. @ Sta. 451+80 (Lt.) to @ Sta. 453+40 (160 LF)
 H-1 O.B. @ Sta. 456+40 (Lt.) to @ Sta. 461+00 (460 LF)

Install Type 4C Modified Rigid Concrete Barrier
 CO-2 @ 8+50 (Rt.) to @ 10+70 (220 LF)

Install Type 4B Modified Rigid Concrete Barrier
 CO-2 @ 10+70 (Rt.) to @ 11+80 (110 LF)

PLAN - CROSS OVER NO. 2
 Scale: 1" = 20'



7/07/98	Install Concrete Apron.
5/27/98	Revised barrier wall stations.
1/16/98	Added note for relocated existing sign.
DATE	REVISION

PLAN - CROSS OVER NO. 2

INTERSTATE ROUTE H-1
CONTRAFLOW AND SHOULDER LANE
Waialae Interchange to Keolu Interchange
PROJECT NO. HIEFG-01-96

Scale: 1" = 20' Date: October, 1997

SHEET No. F5 OF 12 SHEETS

"AS-BUILT"

C.O. 89

ORIGINAL PLAN	DATE
NOTED BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE



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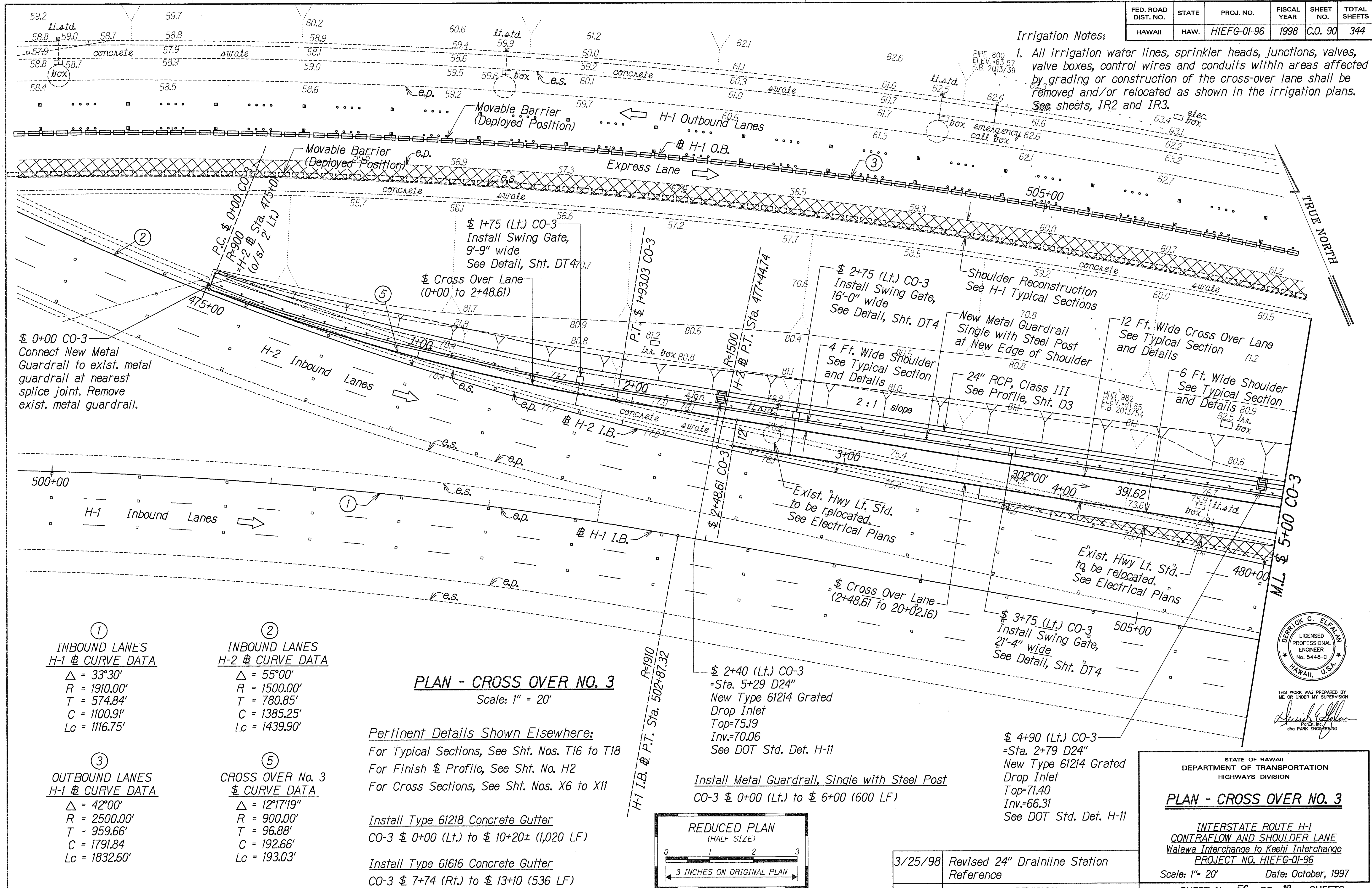
Derrick C. Elftan
 Park Engineering

** SIGNATURE HAS BEEN DIGITIZED.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	C.O. 90	344

Irrigation Notes:

1. All irrigation water lines, sprinkler heads, junctions, valves, valve boxes, control wires and conduits within areas affected by grading or construction of the cross-over lane shall be removed and/or relocated as shown in the irrigation plans. See sheets, IR2 and IR3.



SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	



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Derrick C. Elftan
Professional Engineer
dco PARK ENGINEERING

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	C.O. 91	344

③
OUTBOUND LANES
H-1 @ CURVE DATA
Δ = 42°00'
R = 2500.00'
T = 959.66'
C = 1791.84
Lc = 1832.60'

\$ 5+40 (Lt.) CO-3
Install Swing Gate,
22'-1" wide
See Detail, Sht. DT4

New Metal Guardrail
Single with Steel Post
at New Edge of Shoulder

M.L. \$ 5+00 CO-3

⑥
CROSS OVER No. 3
@ CURVE DATA
Δ = 6°38'08"
R = 3012.00'
T = 174.61'
C = 348.63'
Lc = 348.83'

⑧
INBOUND LANES
H-2 @ CURVE DATA
Δ = 12°20'20"
R = 3600.00'
T = 389.14'
C = 773.78'
Lc = 775.28'

⑦
CROSS OVER No. 3
@ CURVE DATA
Δ = 6°16'04"
R = 3988.00'
T = 218.35'
C = 436.04'
Lc = 436.26'

⑨
OUTBOUND LANES
H-1 @ CURVE DATA
Δ = 10°20'20"
R = 2920.96'
T = 264.26'
C = 526.37'
Lc = 527.08

Pertinent Details Shown Elsewhere:
For Typical Sections, See Sht. Nos. T16 to T18
For Finish & Profile, See Sht. No. H2
For Cross Sections, See Sht. Nos. X6 to X11

Install Type 61218 Concrete Gutter
CO-3 \$ 0+00 (Lt.) to \$ 10+20± (1,020 LF)

Install Type 61616 Concrete Gutter
CO-3 \$ 7+74 (Rt.) to \$ 13+10 (536 LF)

Install Metal Guardrail, Single w/Steel Post
CO-3 \$ 0+00 (Lt.) to \$ 6+00 (600 LF)
CO-3 \$ 8+40 (Lt.) to \$ 11+15 (275 LF)
CO-3 \$ 7+40 (Rt.) to \$ 10+00 (260 LF)

\$ 6+80 (Lt.) CO-3
=Sta. 0+89 D24"
New Type 61214
Grated Drop Inlet
Top=68.41
Inv.=64.90
See Std. Det. H-11

PLAN - CROSS OVER NO. 3
Scale: 1" = 20'

"Quadguard" System
Crash Impact Attenuator
See Detail, Sht. DT1

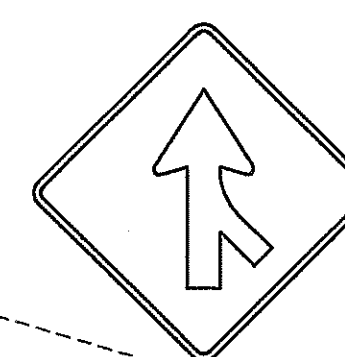
\$ 7+00 CO-3
(o/s 11' Rt.)
=Sta. 0+50.5 D24"
New Type "A" Storm
Drain Manhole
Top=69.60
Inv.=64.70
See DOT Std. Det. H-05



DATE	REVISION
8/07/98	Added New Sign W4-1(R)-A
3/25/98	Revised 24" Drainline

Irrigation Notes:

- All irrigation water lines, sprinkler heads, junctions, valves, valve boxes, control wires and conduits within areas affected by grading or construction of the cross-over lane shall be removed and/or relocated as shown in the irrigation plans. See sheets, IR2 and IR3.



Install Sign W4-1(R)-A
on exist. Conc. Pier



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DCE ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN - CROSS OVER NO. 3

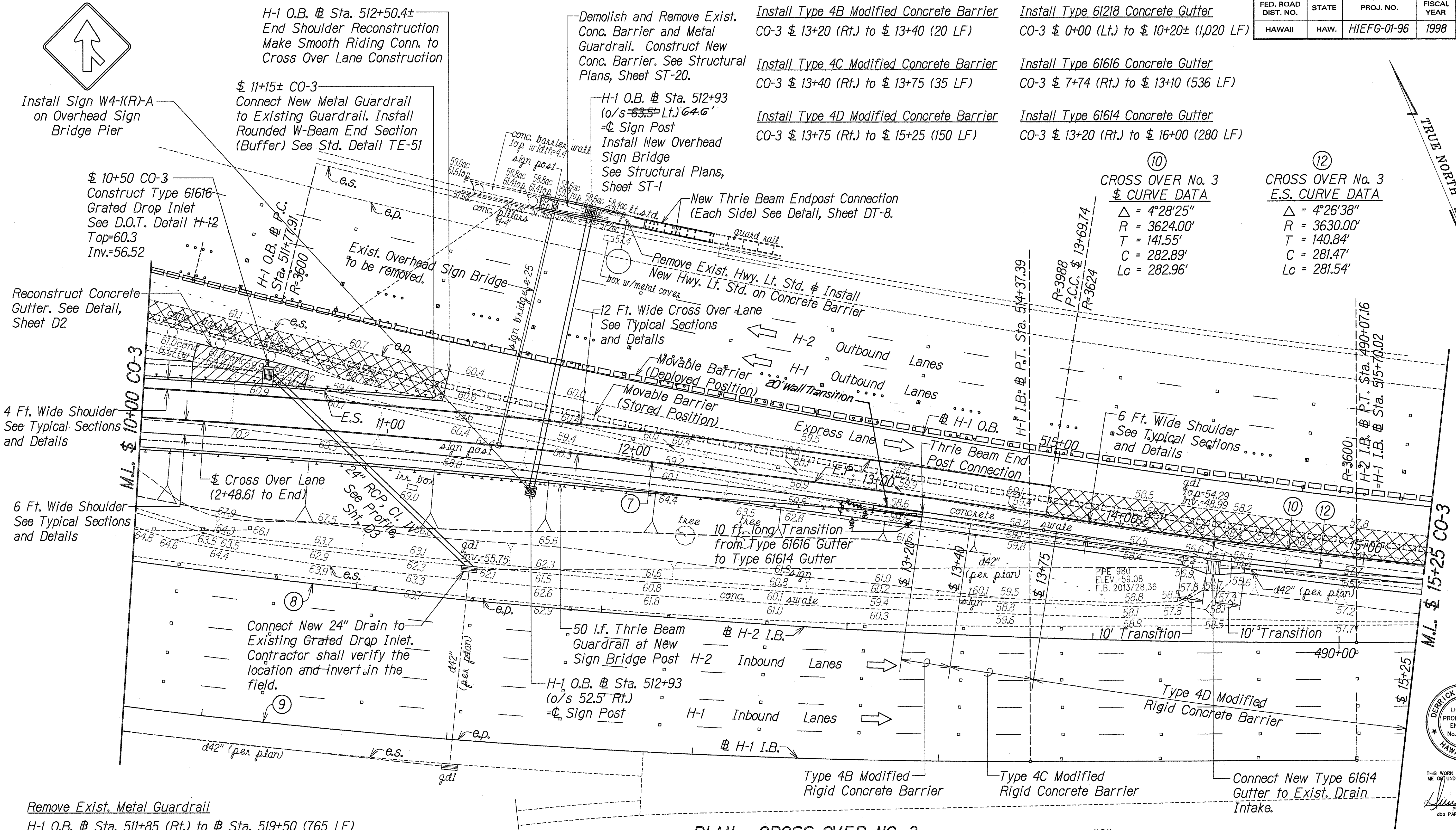
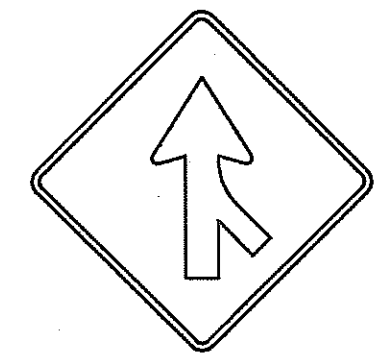
INTERSTATE ROUTE H-1
CONTRAFLOW AND SHOULDER LANE
Waialae Interchange to Keolu Interchange
PROJECT NO. HIEFG-01-96

Scale: 1" = 20' Date: October, 1997

SHEET No. F7 OF 12 SHEETS

C.O. 91

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	92	344



Remove Exist. Metal Guardrail
H-1 O.B. Sta. 511+85 (Rt.) to Sta. 519+50 (765 LF)

7	8	9
CROSS OVER No. 3 \$ CURVE DATA	INBOUND LANES H-1 \$ CURVE DATA	OUTBOUND LANES H-1 \$ CURVE DATA
$\Delta = 6^{\circ}16'04''$ $R = 3988.00'$ $T = 218.35'$ $C = 436.04'$ $Lc = 436.26'$	$\Delta = 12^{\circ}20'20''$ $R = 3600.00'$ $T = 389.14'$ $C = 773.78'$ $Lc = 775.28'$	$\Delta = 10^{\circ}20'20''$ $R = 2920.96'$ $T = 264.26'$ $C = 526.37'$ $Lc = 527.08'$

Pertinent Details Shown Elsewhere:
For Typical Sections, See Sht. Nos. T16 to T18
For Finish \$ Profile, See Sht. No. H2
For Cross Sections, See Sht. Nos. X6 to X11

PLAN - CROSS OVER NO. 3
Scale: 1" = 20'



7/06/98	Added New Sign W4-1(R)-A
DATE	REVISION

PLAN - CROSS OVER NO. 3

INTERSTATE ROUTE H-1
CONTRAFLOW AND SHOULDER LANE
Walawa Interchange to Keahi Interchange
PROJECT NO. HIEFG-01-96
Scale: 1" = 20' Date: October, 1997

SHEET No. F8 OF 12 SHEETS

"AS-BUILT"

C.O. 92

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
ORIGINAL PLAN	



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PETER, INC.
dba PARK ENGINEERING

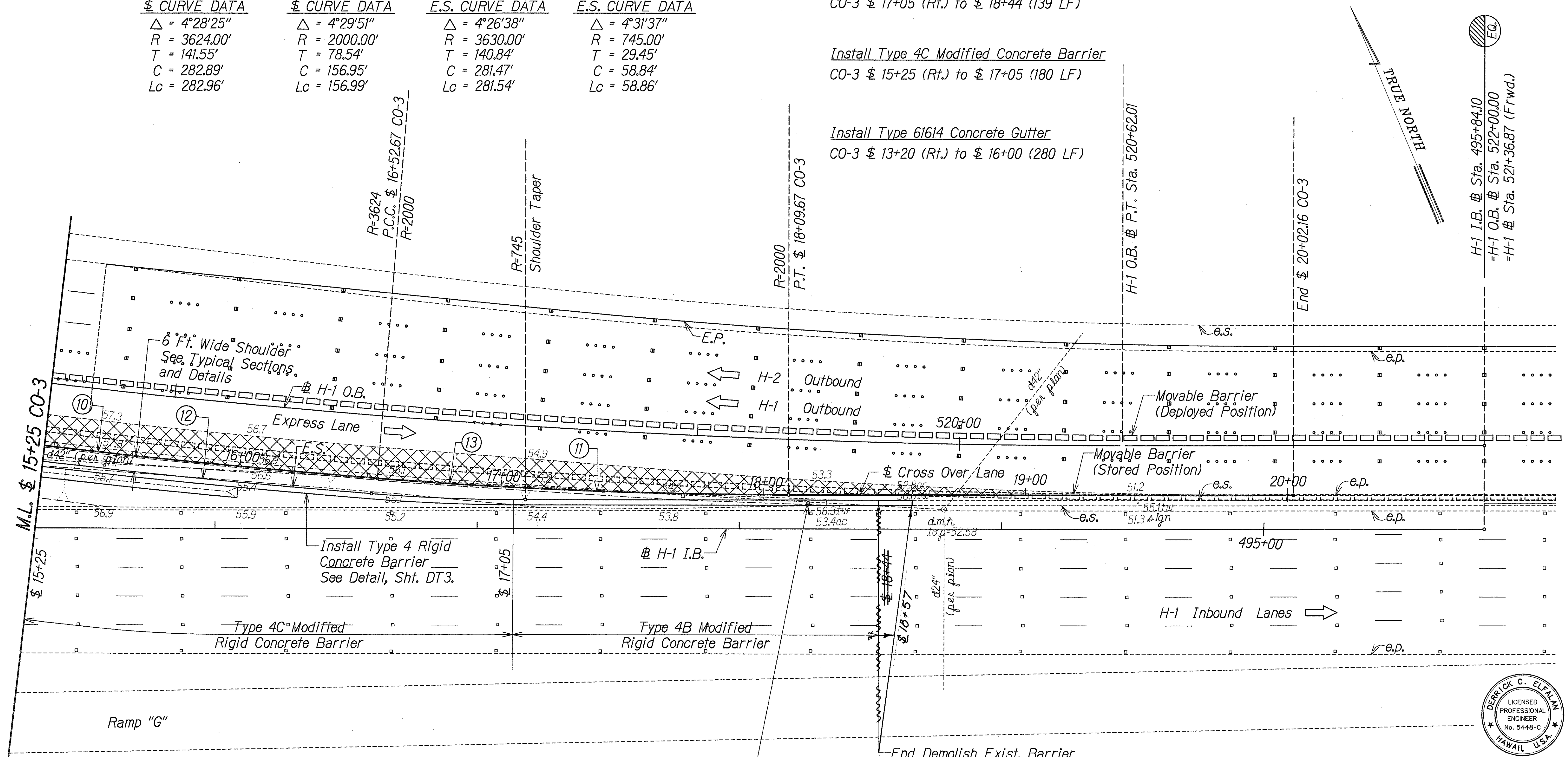
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	93	344

⑩ CROSS OVER No. 3 \$ CURVE DATA	⑪ CROSS OVER No. 3 \$ CURVE DATA	⑫ CROSS OVER No. 3 E.S. CURVE DATA	⑬ CROSS OVER No. 3 E.S. CURVE DATA
$\Delta = 4^{\circ}28'25''$ $R = 3624.00'$ $T = 141.55'$ $C = 282.89'$ $Lc = 282.96'$	$\Delta = 4^{\circ}29'51''$ $R = 2000.00'$ $T = 78.54'$ $C = 156.95'$ $Lc = 156.99'$	$\Delta = 4^{\circ}26'38''$ $R = 3630.00'$ $T = 140.84'$ $C = 281.47'$ $Lc = 281.54'$	$\Delta = 4^{\circ}31'37''$ $R = 745.00'$ $T = 29.45'$ $C = 58.84'$ $Lc = 58.86'$

Install Type 4B Modified Concrete Barrier
CO-3 \$ 17+05 (Rt.) to \$ 18+44 (139 LF)

Install Type 4C Modified Concrete Barrier
CO-3 \$ 15+25 (Rt.) to \$ 17+05 (180 LF)

Install Type 61614 Concrete Gutter
CO-3 \$ 13+20 (Rt.) to \$ 16+00 (280 LF)



Remove Exist. Metal Guardrail
H-1 O.B. \$ Sta. 511+85 (Rt.) to \$ Sta. 519+50 (765 LF)

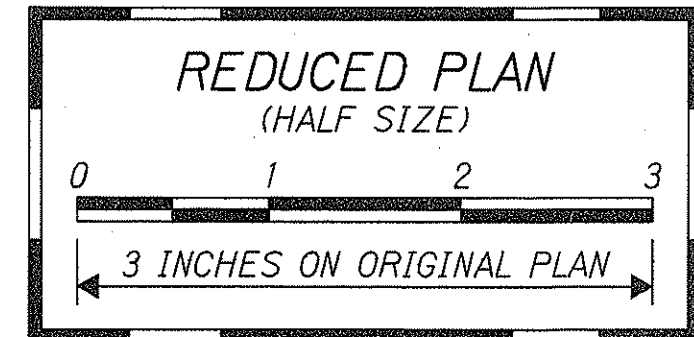
H-1 \$ Sta. 519+43
Install Type I Signal
Generator on Median
Barrier Post Pedestal
See Detail, Sht. DT7

End Demolish Exist. Barrier
Connect New Type 4B Barrier
to Exist. Median Barrier. See
Detail, Sht. DT3

Pertinent Details Shown Elsewhere:
For Typical Sections, See Sht. Nos. T16 to T18
For Finish \$ Profile, See Sht. No. H2
For Cross Sections, See Sht. Nos. X6 to X11

PLAN - CROSS OVER NO. 3

Scale: 1" = 20'



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dba PARK ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PLAN - CROSS OVER NO. 3

INTERSTATE ROUTE H-1
CONTRAFLOW AND SHOULDER LANE
Waiawa Interchange to Keolu Interchange
PROJECT NO. HIEFG-01-96

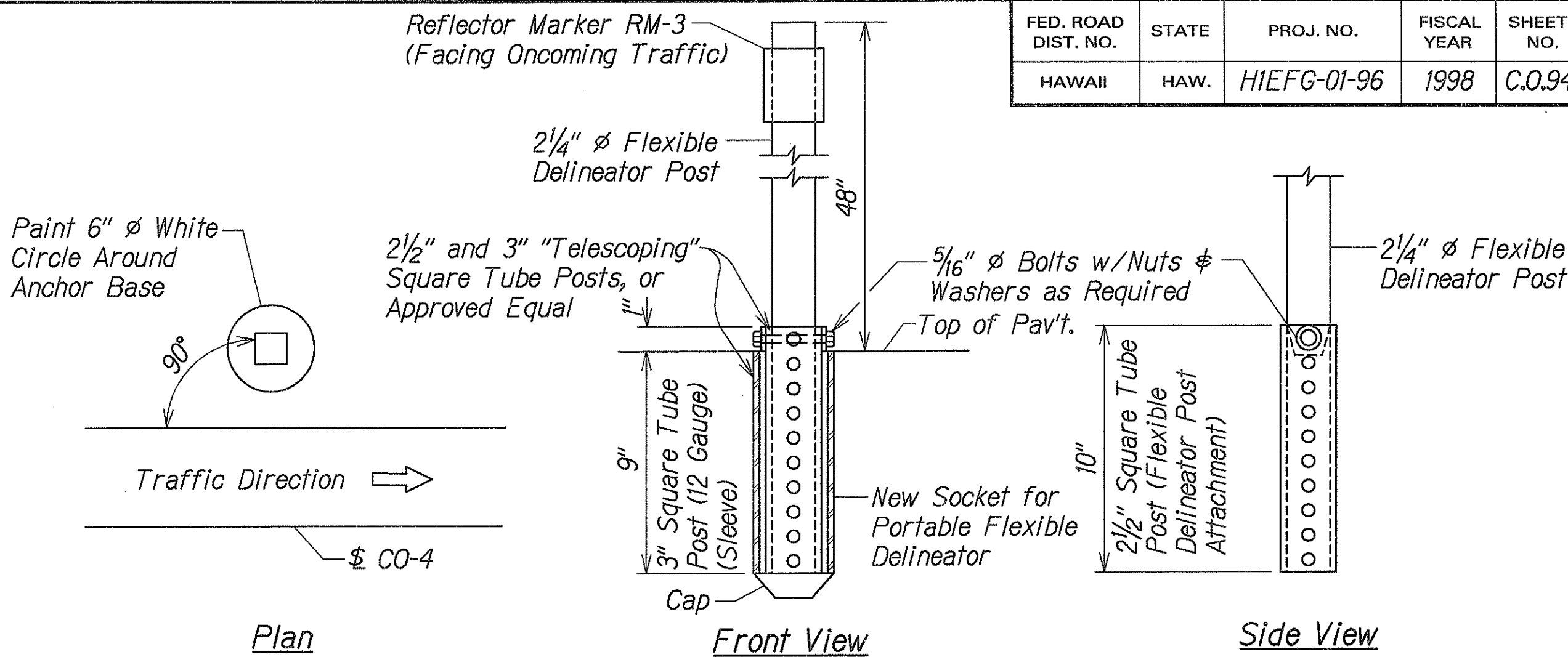
Scale: 1" = 20' Date: October, 1997

SHEET No. **F9** OF **12** SHEETS

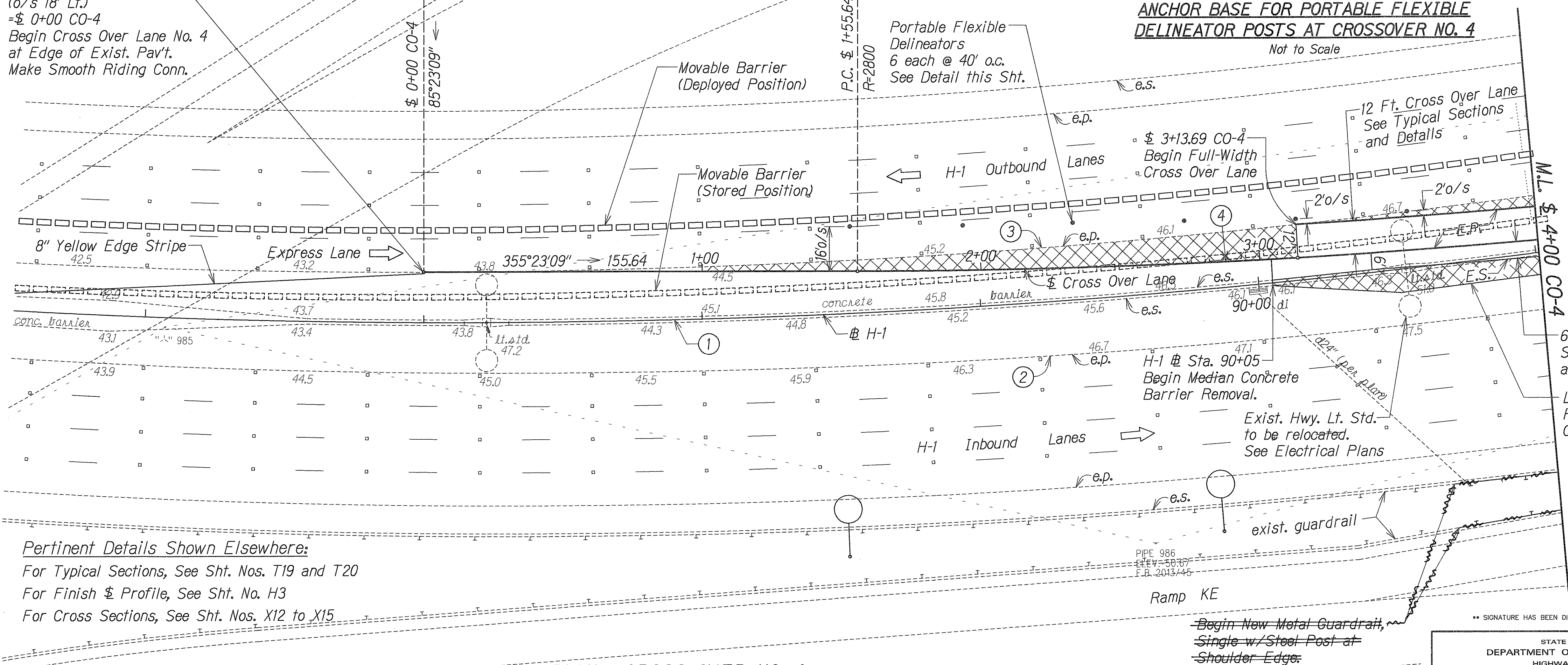
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	C.O.94	344

① H-1 @ CURVE DATA	② INBOUND LANES E.P. CURVE DATA	③ OUTBOUND LANES E.P. CURVE DATA	④ CROSS OVER No. 4 @ CURVE DATA
$\Delta = 91^{\circ}51'37''$ $R = 3000.00'$ $T = 3099.02'$ $C = 4310.95'$ $Lc = 4809.79'$	$\Delta = 91^{\circ}51'37''$ $R = 3013.63'$ $T = 3113.10'$ $C = 4330.54'$ $Lc = 4831.65'$	$\Delta = 91^{\circ}51'37''$ $R = 2986.37'$ $T = 3084.94'$ $C = 4291.37'$ $Lc = 4787.94'$	$\Delta = 12^{\circ}10'42''$ $R = 2800.00'$ $T = 298.70'$ $C = 594.03'$ $Lc = 595.15'$

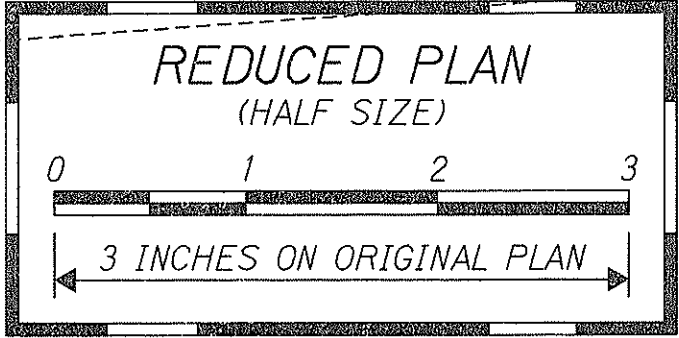


H-1 @ Sta. 87+00
(o/s 18' Lt.)
= \$ 0+00 CO-4
Begin Cross Over Lane No. 4
at Edge of Exist. Pav't.
Make Smooth Riding Conn.



Pertinent Details Shown Elsewhere:
For Typical Sections, See Sht. Nos. T19 and T20
For Finish & Profile, See Sht. No. H3
For Cross Sections, See Sht. Nos. X12 to X15

PLAN - CROSS OVER NO. 4
Scale: 1" = 20'



Remove Exist. Concrete Median Barrier
H-1 @ Sta. 90+05 to @ Sta. 97+65 (760 LF)

7/07/98	Install New Metal Guardrail
DATE	REVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

PLAN - CROSS OVER NO. 4

INTERSTATE ROUTE H-1

CONTRAFLOW AND SHOULDER LANE

Waialae Interchange to Keolu Interchange

PROJECT NO. HIEFG-01-96

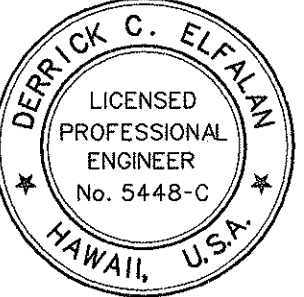
Scale: 1" = 20'

Date: October 1997

SHEET No. **F10** OF 12 SHEETS

C.O. 94

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
CHECKED BY	



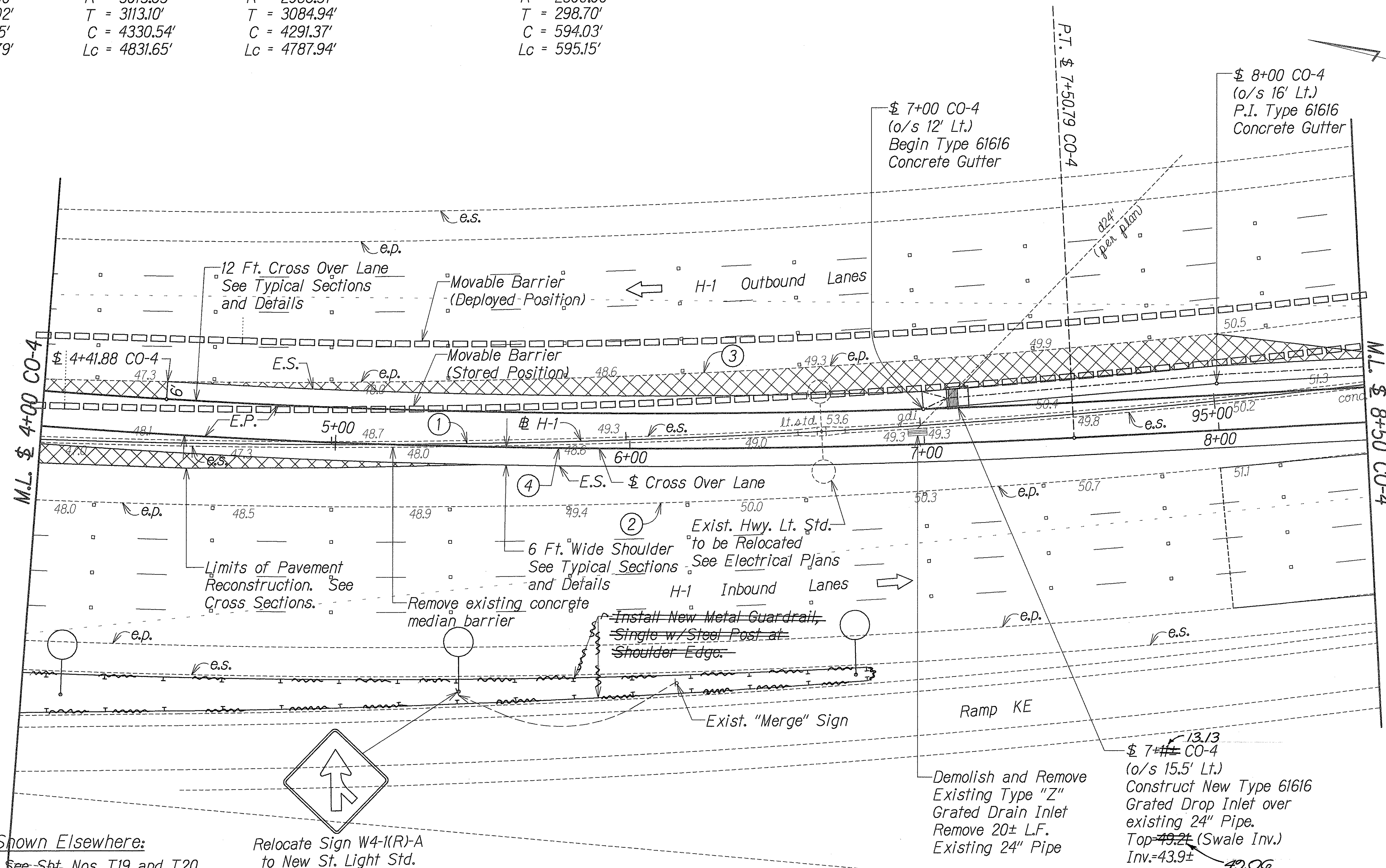
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ParEn, Inc. 990
PARK ENGINEERING

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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	C.O. 95	344

① H-1 # CURVE DATA	② INBOUND LANES E.P. CURVE DATA	③ OUTBOUND LANES E.P. CURVE DATA	④ CROSS OVER No. 4 # CURVE DATA
$\Delta = 91^{\circ}51'37''$	$\Delta = 91^{\circ}51'37''$	$\Delta = 91^{\circ}51'37''$	$\Delta = 121^{\circ}10'42''$
$R = 3000.00'$	$R = 3013.63'$	$R = 2986.37'$	$R = 2800.00'$
$T = 3099.02'$	$T = 3113.10'$	$T = 3084.94'$	$T = 298.70'$
$C = 4310.95'$	$C = 4330.54'$	$C = 4291.37'$	$C = 594.03'$
$Lc = 4809.79'$	$Lc = 4831.65'$	$Lc = 4787.94'$	$Lc = 595.15'$



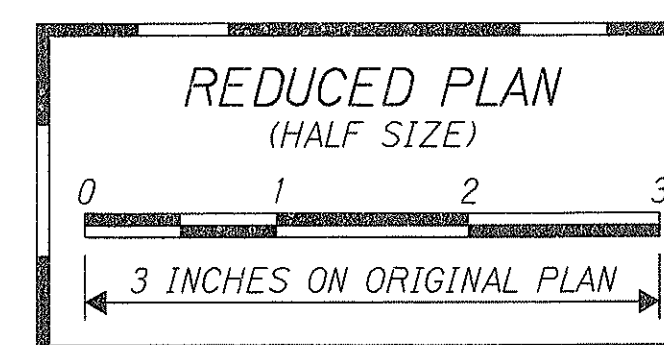
Pertinent Details Shown Elsewhere:
 For Typical Sections, See Sht. Nos. T19 and T20
 For Finish & Profile, See Sht. No. H3
 For Cross Sections, See Sht. Nos. X12 to X15

Remove Exist. Concrete Median Barrier
 H-1 @ Sta. 90+05 to @ Sta. 97+65 (760 LF)

Install Type 61616 Concrete Gutter
 CO-4 @ 7+00 (Lt.) to @ 10+34 (334 LF)

Relocate Sign W4-1(R)-A
 to New St. Light Std.
 at @ 5+44 CO-4

PLAN - CROSS OVER NO. 4
 Scale: 1" = 20'



7/07/98	Install New Metal Guardrail and Relocate Existing Sign
4/30/98	Revised Top of Intake Elevation.
DATE	REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

PLAN - CROSS OVER NO. 4

INTERSTATE ROUTE H-1
 CONTRAFLOW AND SHOULDER LANE
 Waiawa Interchange to Keolu Interchange
 PROJECT NO. HIEFG-01-96

Scale: 1" = 20' Date: October 1997
 SHEET No. 711 OF 12 SHEETS



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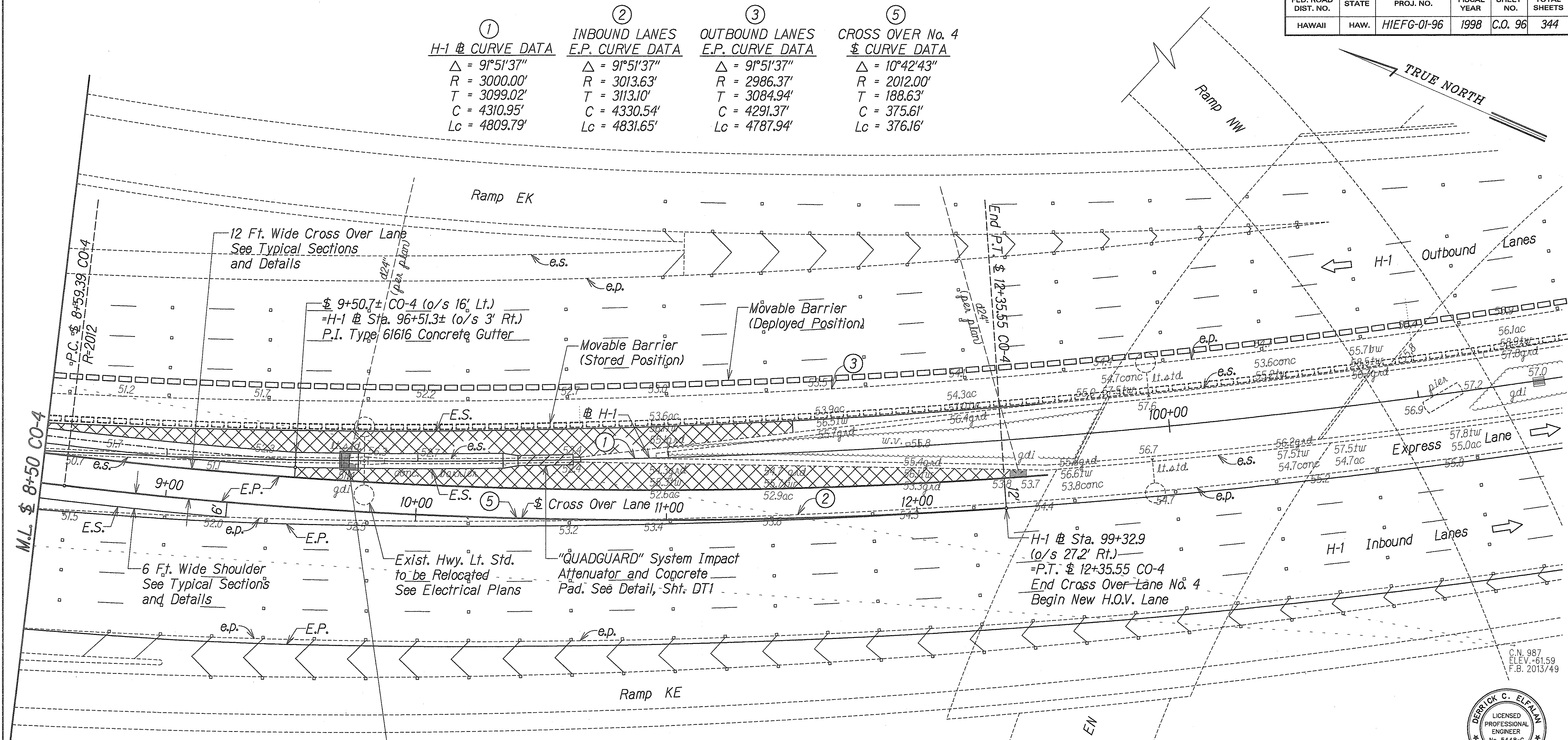
**
 [Signature]
 Park Engineering
 ** SIGNATURE HAS BEEN DIGITIZED.

"AS-BUILT"

C.O. 95

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HIEFG-01-96	1998	C.O. 96	344

① H-1 @ CURVE DATA	② INBOUND LANES E.P. CURVE DATA	③ OUTBOUND LANES E.P. CURVE DATA	⑤ CROSS OVER No. 4 E CURVE DATA
$\Delta = 9^{\circ}51'37''$ $R = 3000.00'$ $T = 3099.02'$ $C = 4310.95'$ $Lc = 4809.79'$	$\Delta = 9^{\circ}51'37''$ $R = 3013.63'$ $T = 3113.10'$ $C = 4330.54'$ $Lc = 4831.65'$	$\Delta = 9^{\circ}51'37''$ $R = 2986.37'$ $T = 3084.94'$ $C = 4291.37'$ $Lc = 4787.94'$	$\Delta = 10^{\circ}42'43''$ $R = 2012.00'$ $T = 188.63'$ $C = 375.61'$ $Lc = 376.16'$



Pertinent Details Not Shown:

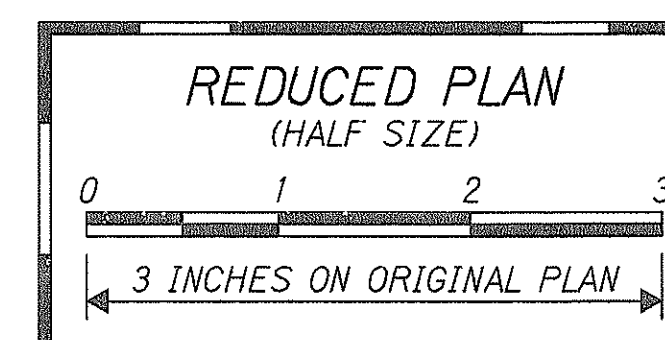
For Typical Sections, See Sht. T19 and T20
For Finish & Profile, See Sht. No. H3
For Cross Sections, See Sht. Nos. X12 to X15

Remove Exist. Concrete Median Barrier
H-1 @ Sta. 90+05 to @ Sta. 97+65 (760 LF)

Install Type 61616 Concrete Gutter
CO-4 @ 7+00 (Lt.) to @ 10+34 (334 LF)

@ 9+72 CO-4
(o/s 20' Lt.)
Remove and Demolish Exist.
Type "Z" Drain Inlet
Construct New Type 61616
Grated Drop Inlet over
existing 24" Pipe
Top=51.68 (Swale Inv.)
Inv.=46.4±

PLAN - CROSS OVER NO. 4
Scale: 1" = 20'



4/30/98	Revised Top of Intake Elevation.
DATE	REVISION

PLAN - CROSS OVER NO. 4

INTERSTATE ROUTE H-1
CONTRAFLOW AND SHOULDER LANE
Waiawa Interchange to Keolu Interchange
PROJECT NO. HIEFG-01-96

Scale: 1" = 20' Date: October 1997

SHEET No. F12 OF 12 SHEETS

C.O. 96

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
DATE	



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Derrick C. Elfa
P.E., INC.
dba PARK ENGINEERING