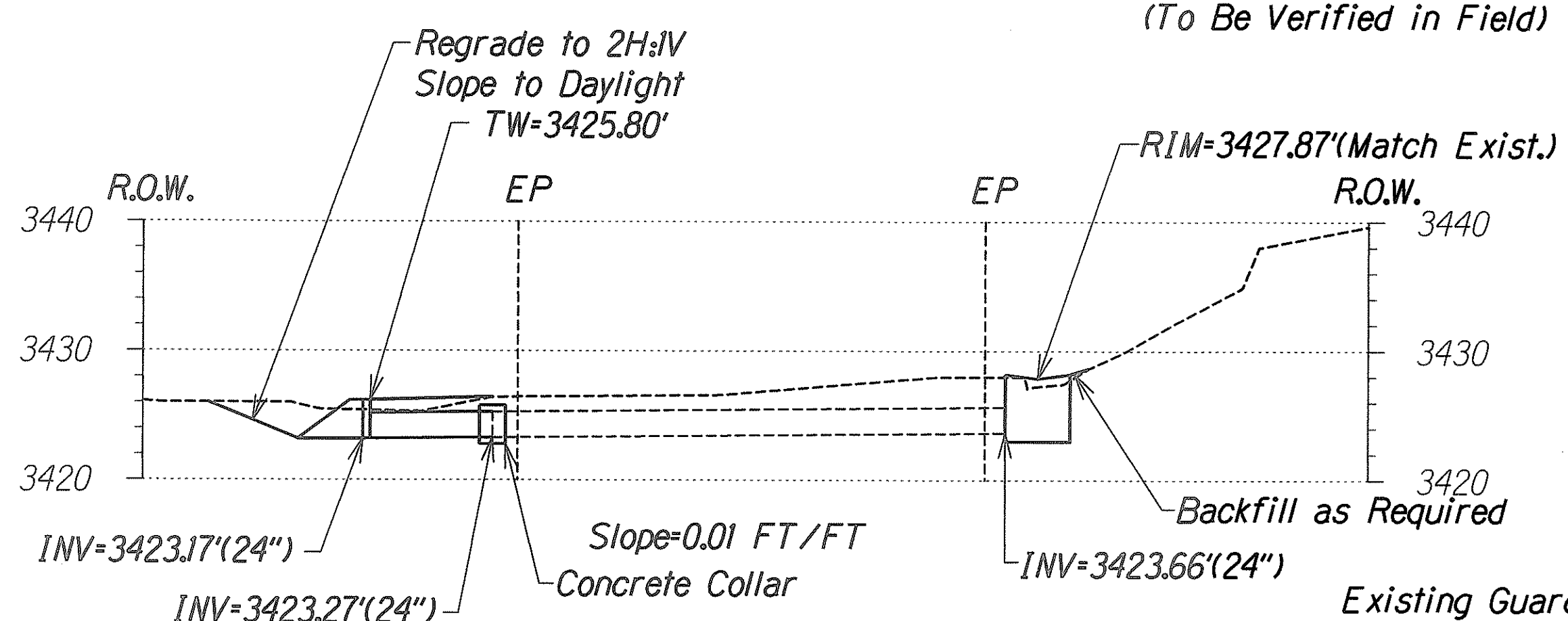
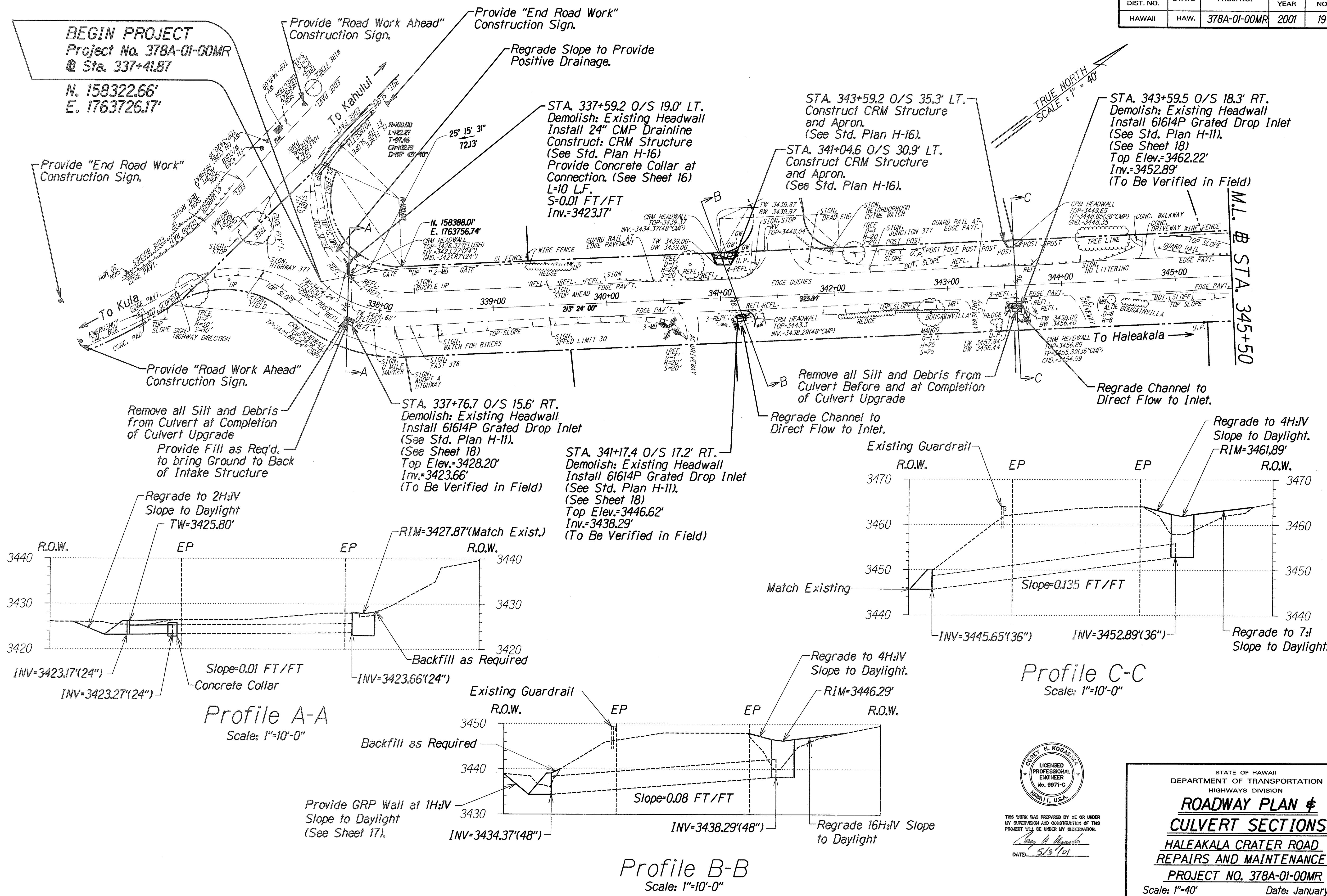
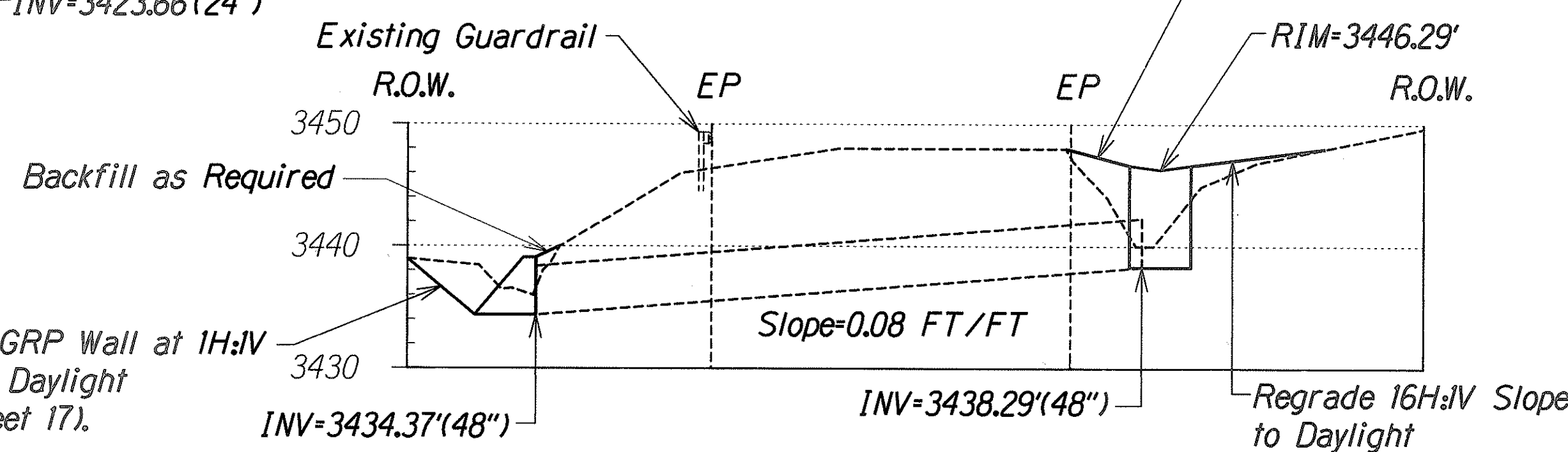


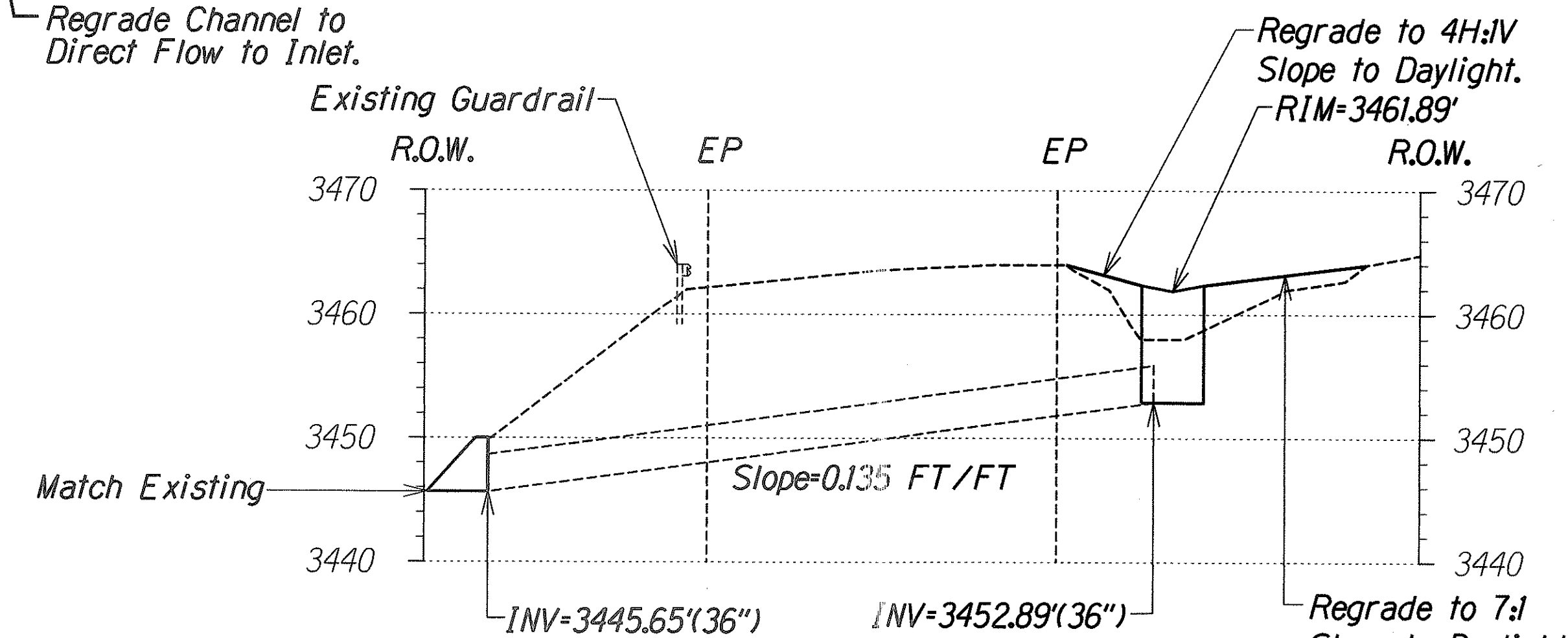
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	19	73



Profile A-A
Scale: 1"=10'-0"

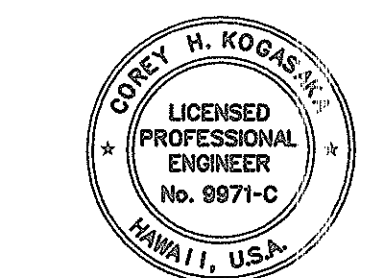


Profile B-B
Scale: 1"=10'-0"



Profile C-C
Scale: 1"=10'-0"

SURVEY PLOTTED BY	DATE
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NOTES BOOK	
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DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN & CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 1 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00M	2001R	20	73

STA. 350+57.4 O/S 12.0' LT.
Demolish: Existing Headwall
Install 36" CMP Drainline
Construct: CRM Structure
(See Std. Plan H-16)
Provide Concrete Collar at Connection. (See Sheet 17)
L=9 L.F.
S=0.024 FT/FT
Inv.=3498.19'

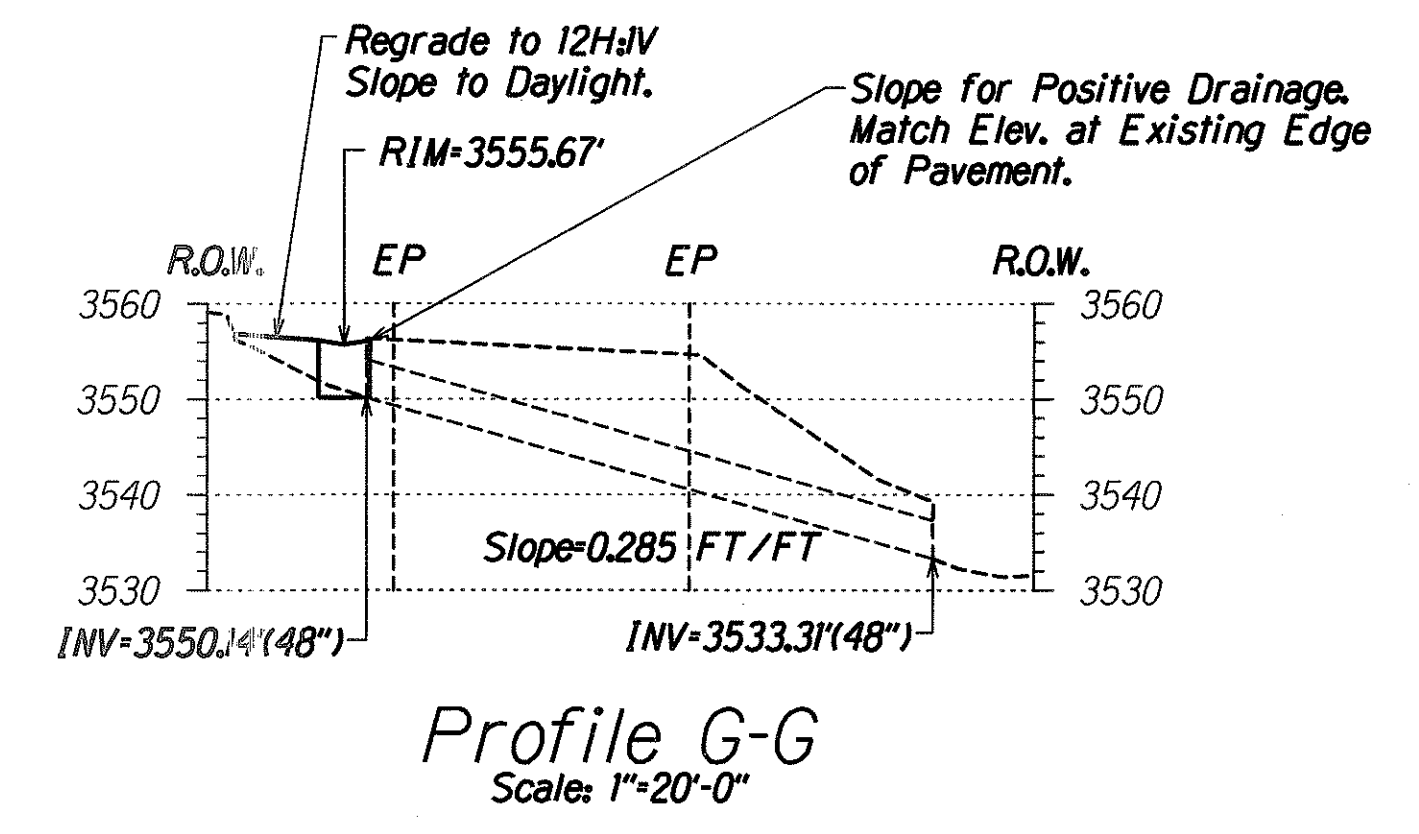
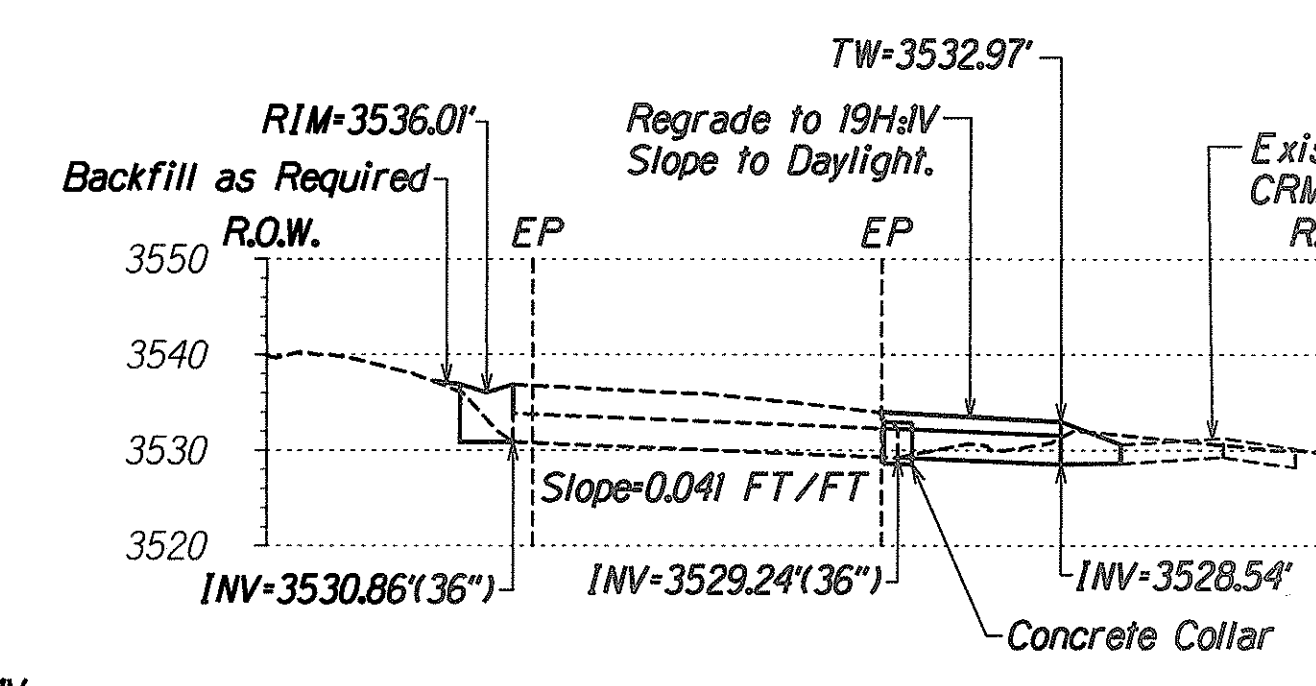
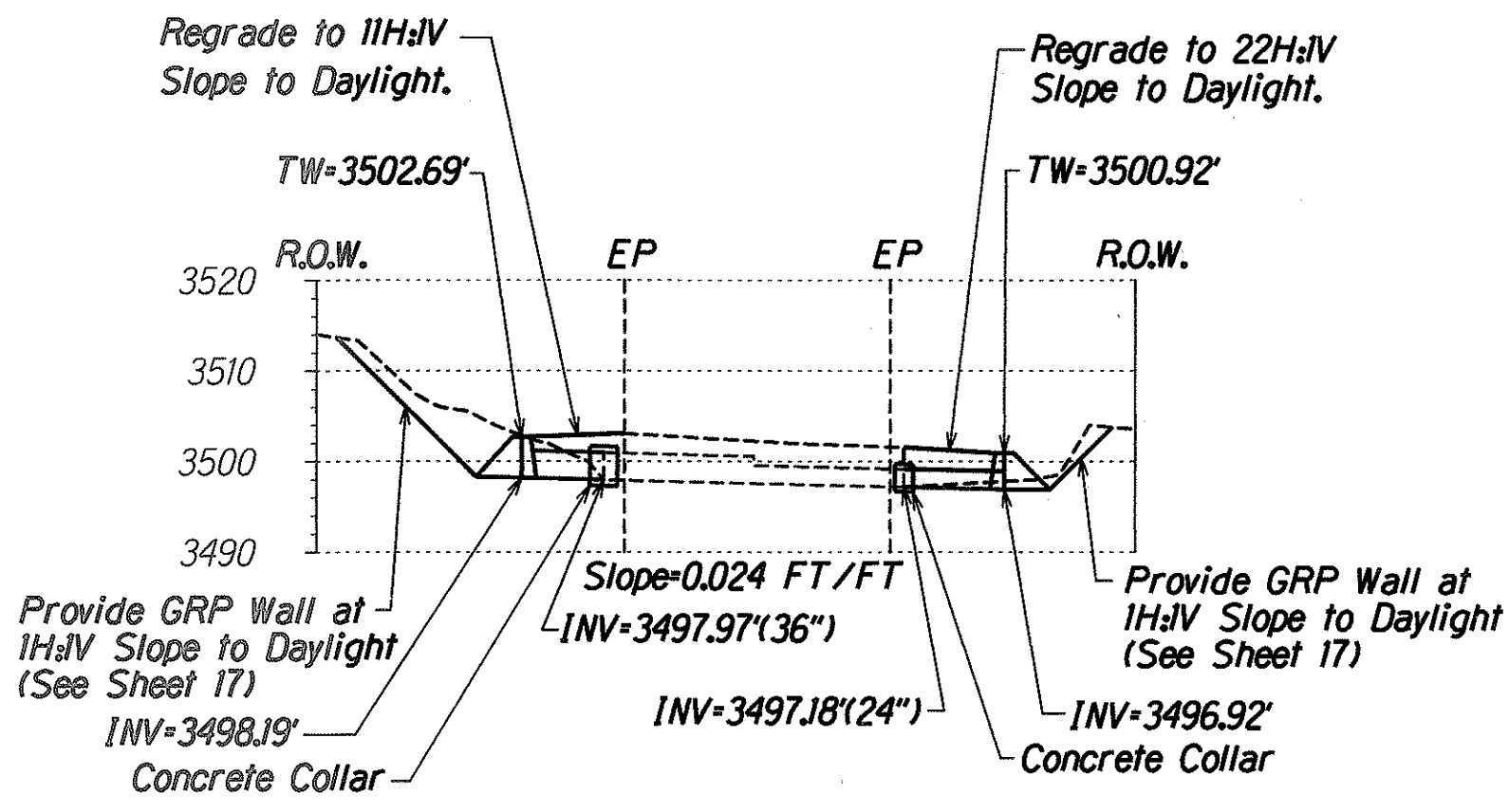
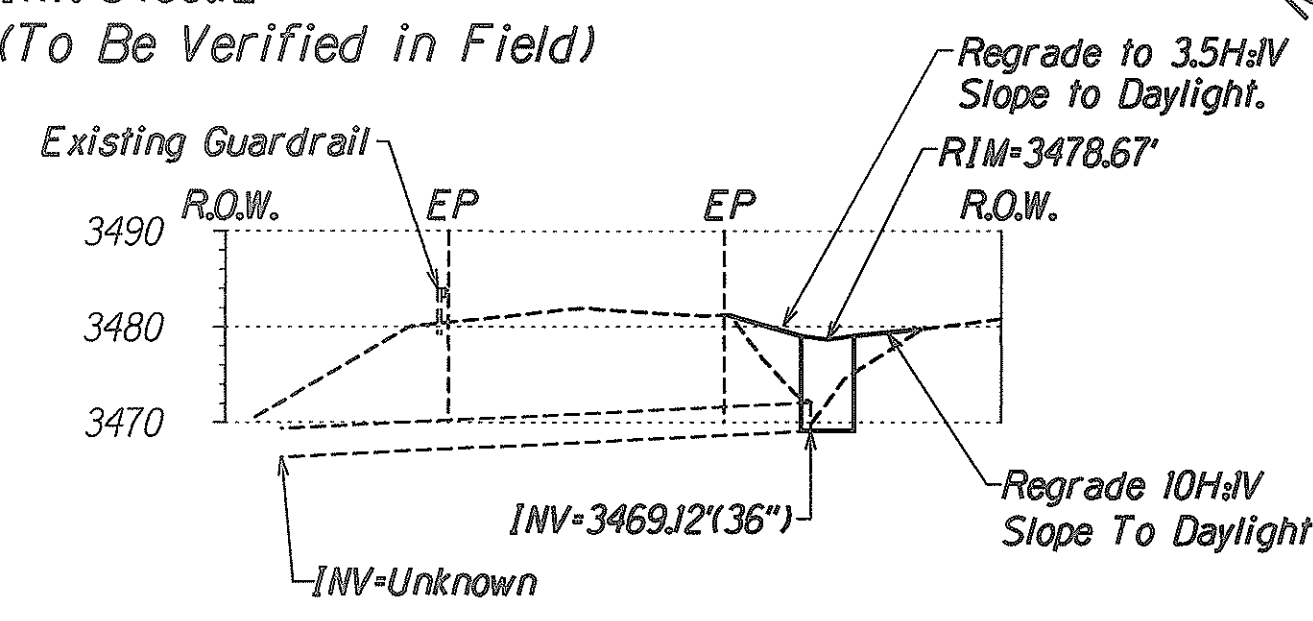
STA. 355+35.4 O/S 21.6' LT.
Demolish: Existing Headwall
Install 61614P Grated Drop Inlet
(See Std. Plan H-11).
(See Sheet 18)
Top Elev.=3536.34'
Inv.=3530.86'
(To Be Verified in Field)

STA. 358+07.8 O/S 24.8' LT.
Demolish: Existing Headwall
Install 61614P Grated Drop Inlet
(See Std. Plan H-11).
(See Sheet 18)
Top Elev.=3556.00'
Inv.=3550.14'
(To Be Verified in Field)

STA. 350+40.6 O/S 20.1' RT.
Demolish: Existing Headwall
Install 24" Concrete Drainline
Construct: CRM Structure
(See Std. Plan H-16)
Provide Concrete Collar at Connection. (See Sheet 17)
L=11 L.F.
S=0.024 FT/FT
Inv.=3496.92'

STA. 355+09.5 O/S 7.1' RT.
Demolish: Existing Headwall
Install 36" CMP Drainline
Construct: CRM Structure
(See Std. Plan H-16)
Provide Concrete Collar at Connection. (See Sheet 17)
L=17 L.F.
S=0.041 FT/FT
Inv.=3528.54'

STA. 346+33.3 O/S 19.7' RT.
Demolish: Existing Headwall
Install 61614P Grated Drop Inlet
(See Std. Plan H-11).
(See Sheet 18)
Top Elev.=3479.00'
Inv.=3469.12'
(To Be Verified in Field)



Regrade Slope.
See Sheet 66.

Protect Existing Conduit
During Construction.

Protect Existing Driveway
During Construction.

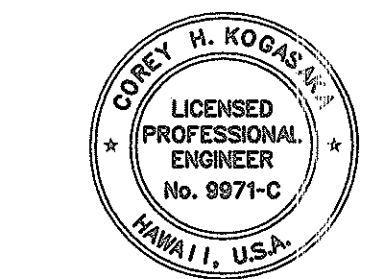
Protect U.P. and Guywires
During Construction.

Protect F.H. Standpipe
During Construction
Taper Top of Wingwalls
to Match Existing Top
of CRM Walls.

TRUE NORTH
SCALE: 1" = 40'

M.L. @ STA. 360+00

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DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	



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DATE: 5/3/01

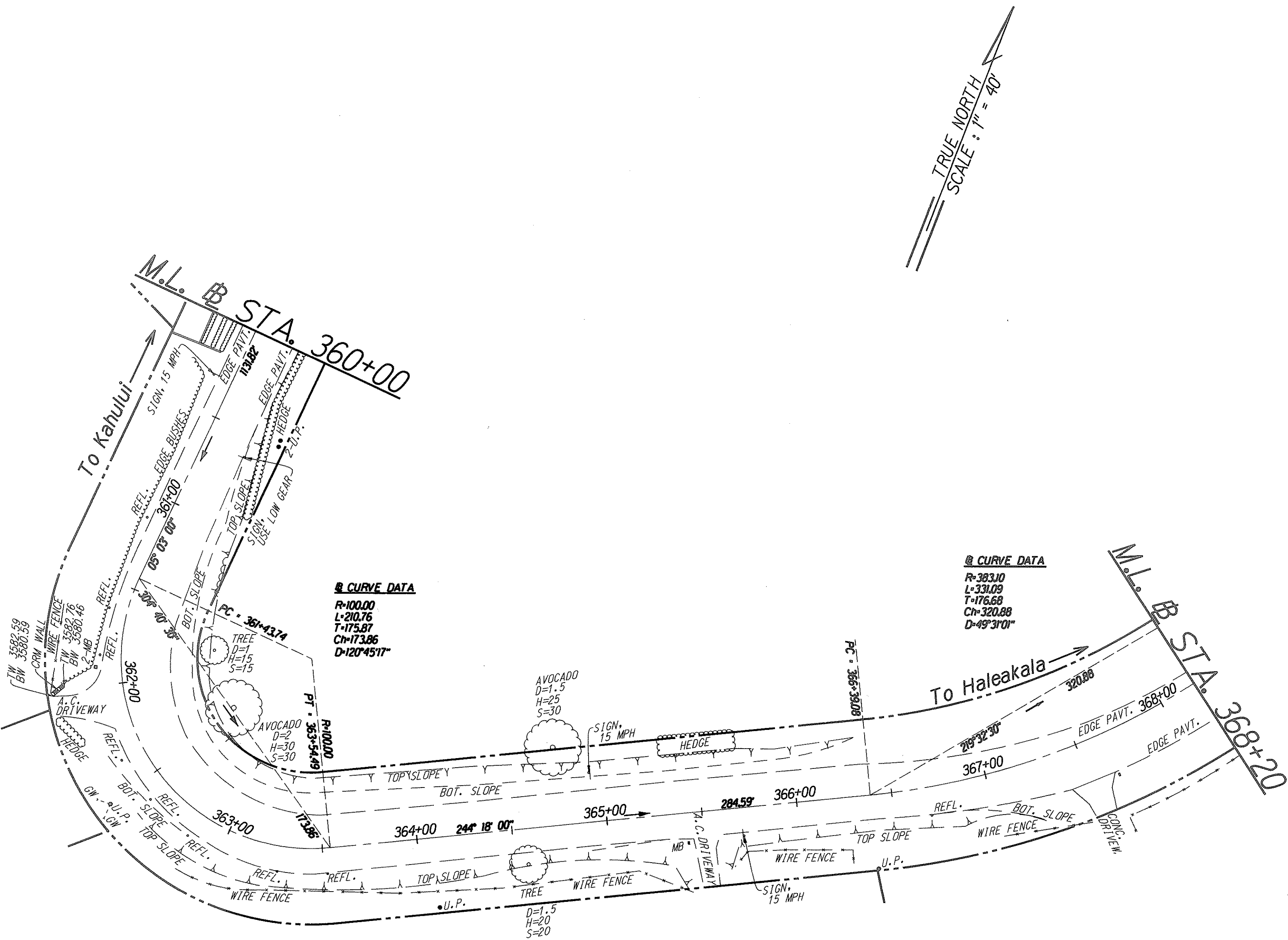
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**

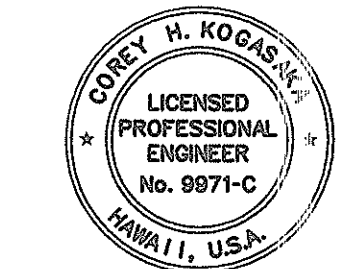
**HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE**

PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 2 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	21	73



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY		
NOTE BOOK		
QUANTITIES BY		
CHECKED BY		
N.		



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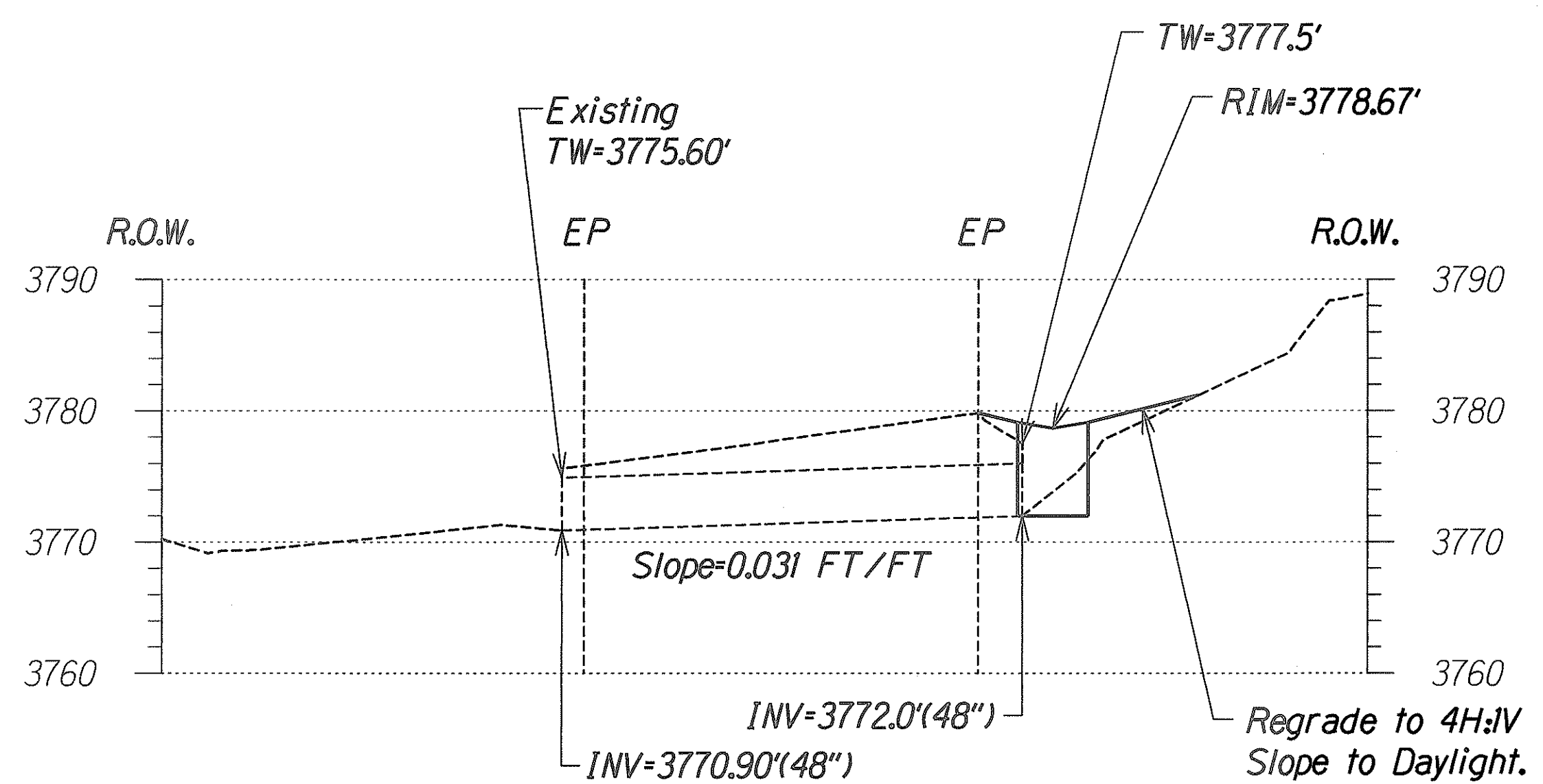
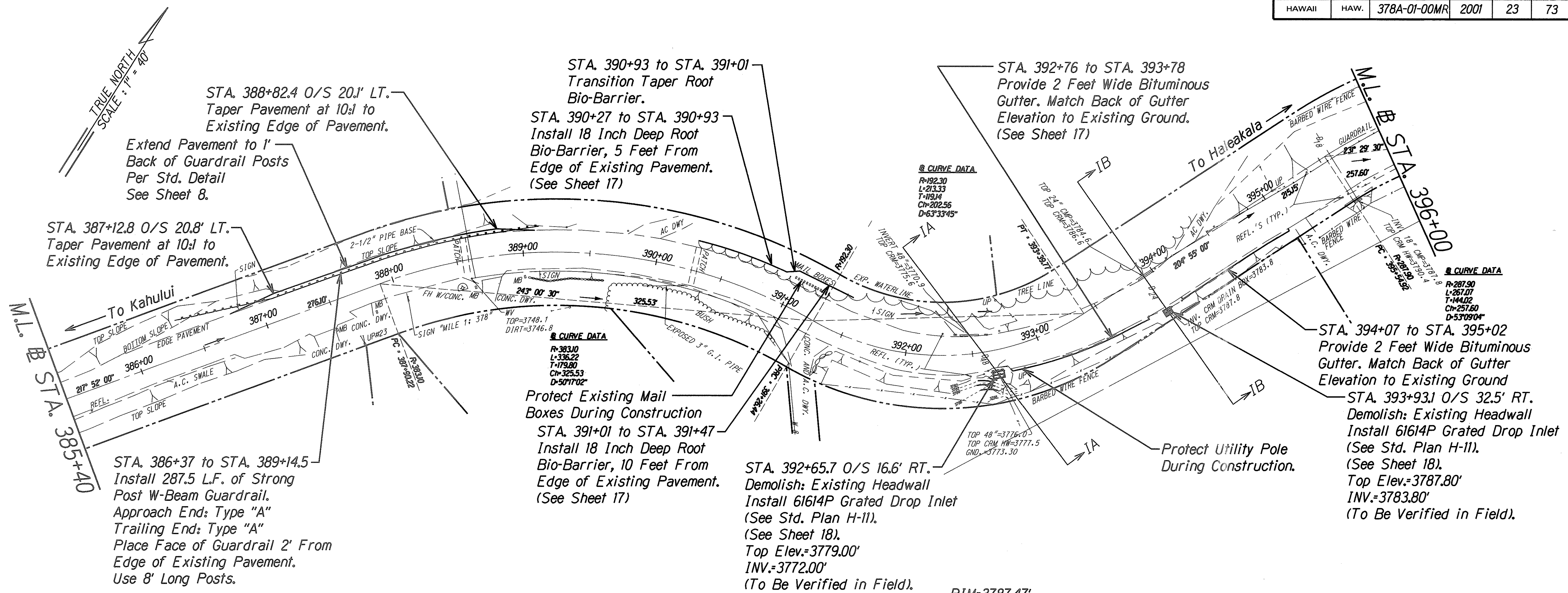
Corey H. Kogas

DATE: 5/3/01

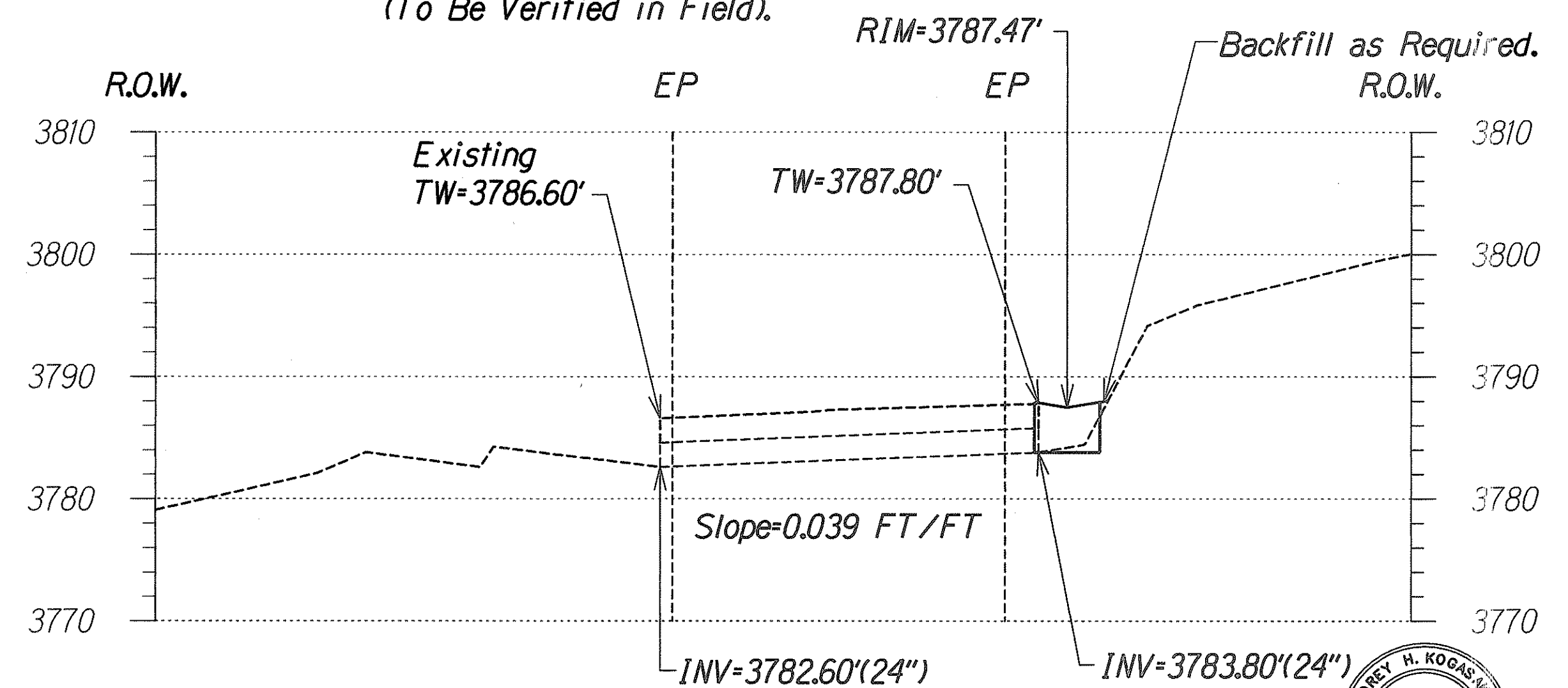
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 3 OF 47 SHEETS

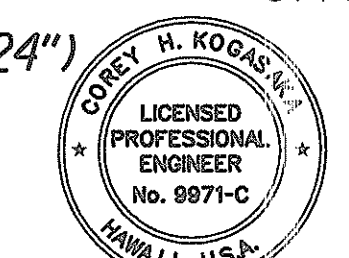
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	23	73



Profile IA-IA
Scale: 1"=10'-0"



Profile IB-IB
Scale: 1"=10'-0"



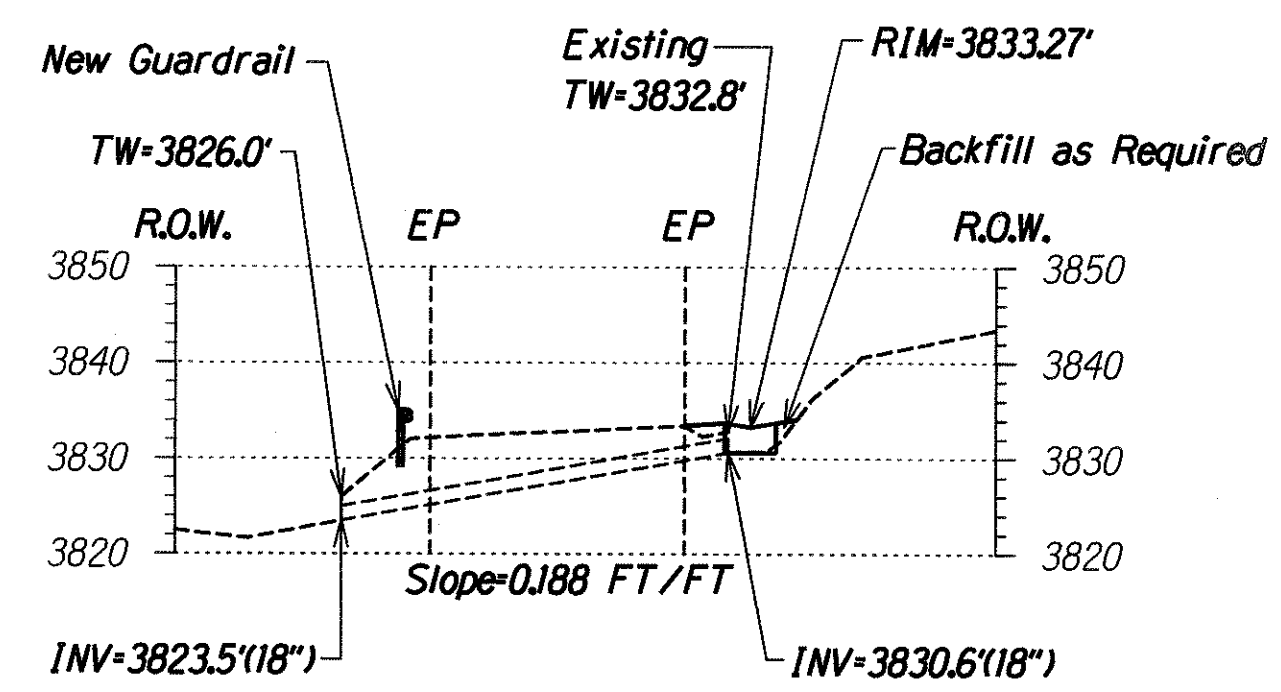
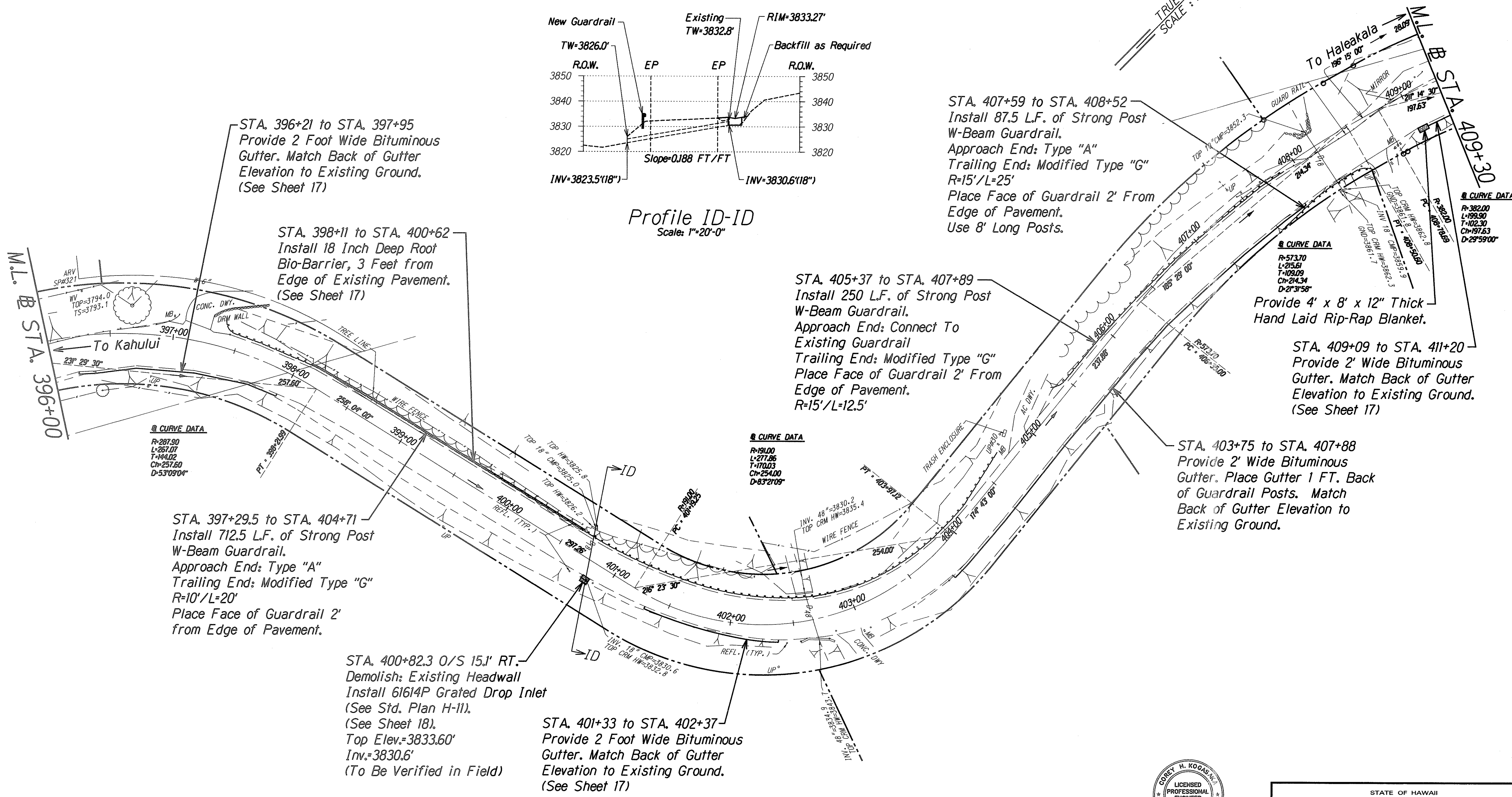
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DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN #
CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 5 OF 47 SHEETS

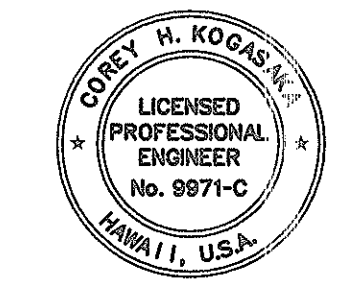
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TRACED BY	
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ORIGINAL PLAN	
NOTE BOOK	
FILE	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	24	73



Profile ID-ID
Scale: 1"=20'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
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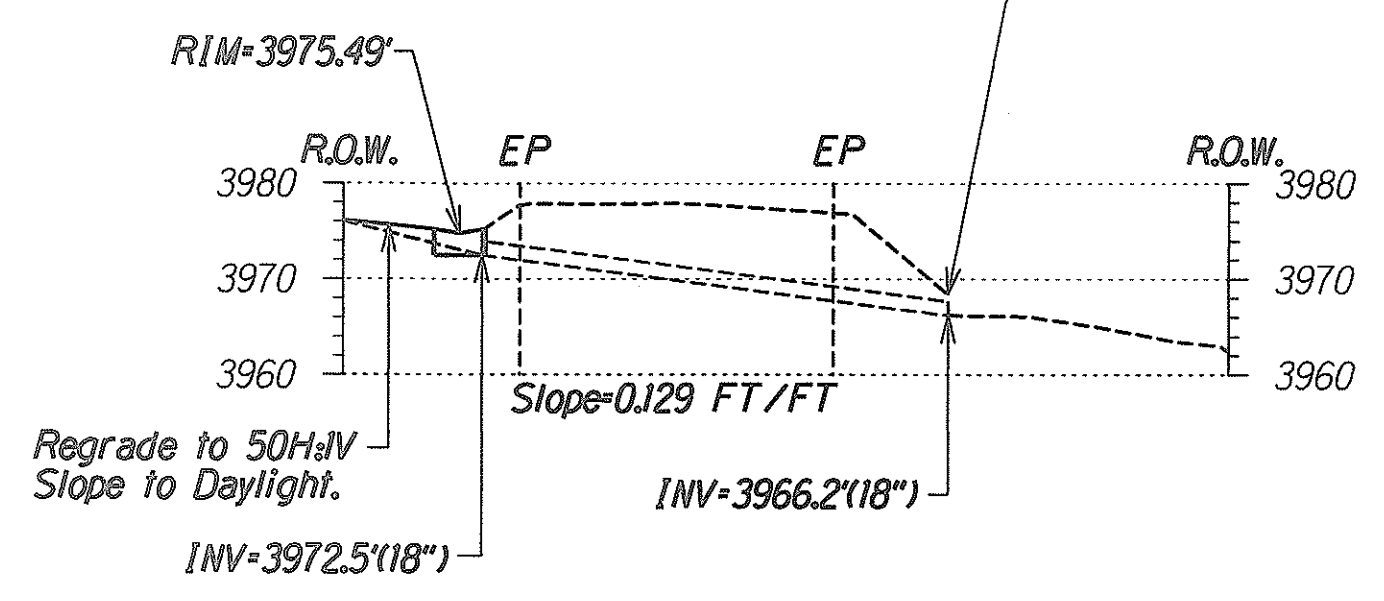
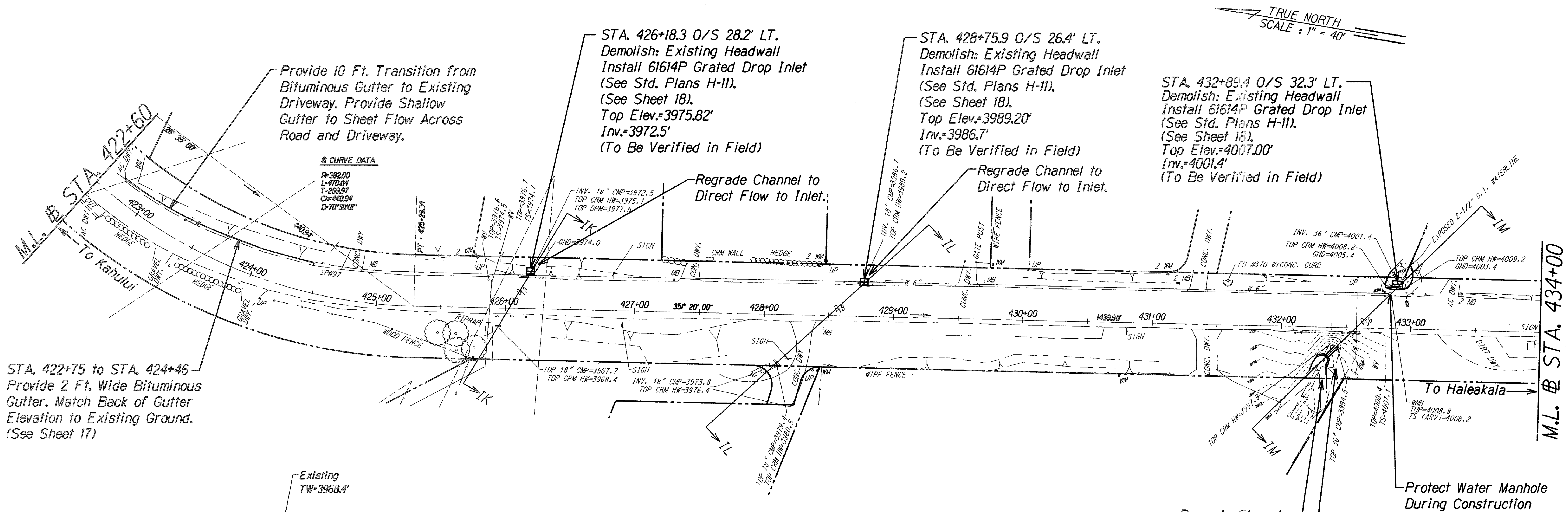
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Corey H. Kogas
DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

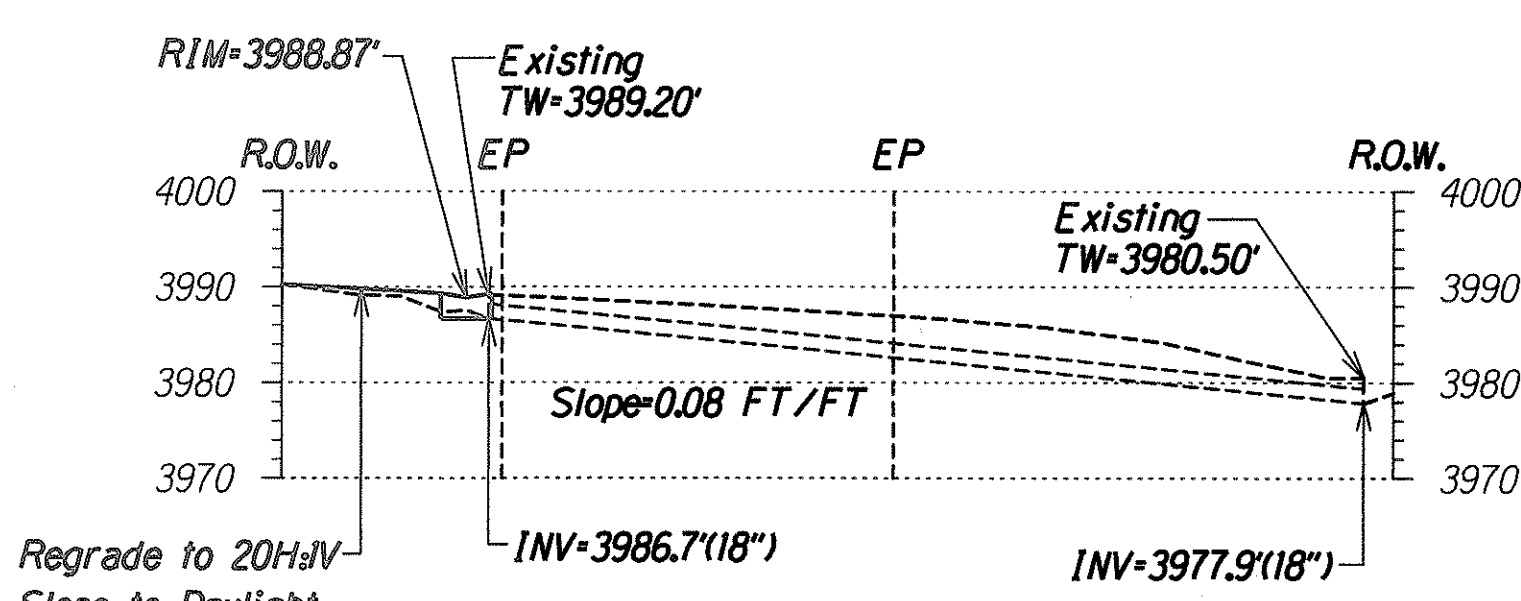
ROADWAY PLAN #
CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

SHEET No. 6 OF 47 SHEETS

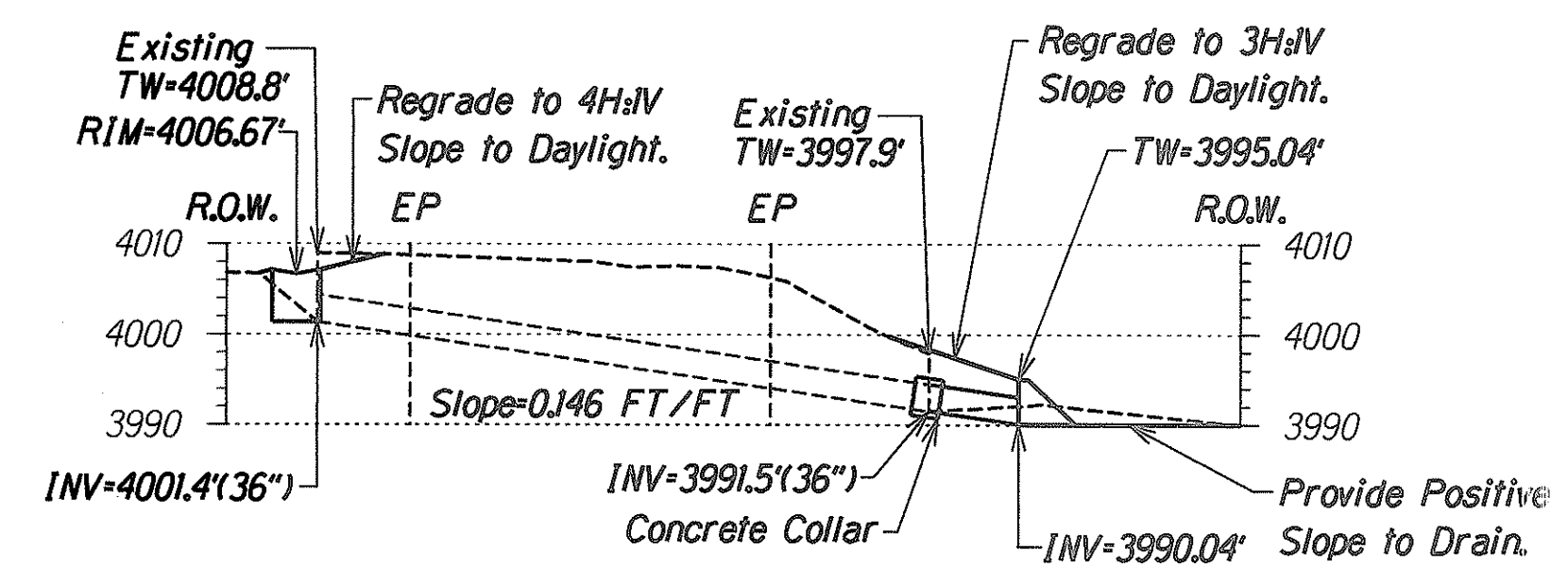
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	26	73



Profile IK-IK
Scale: 1"=20'-0"

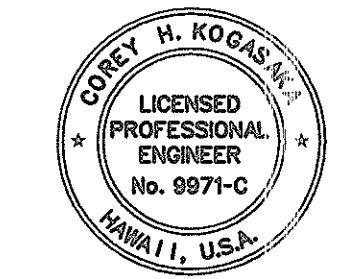


Profile IL-IL
Scale: 1"=20'-0"



Profile IM-IM
Scale: 1"=20'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTES BOOK	
DATE	



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DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN &
CULVERT SECTIONS

HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE

PROJECT NO. 378A-01-00MR

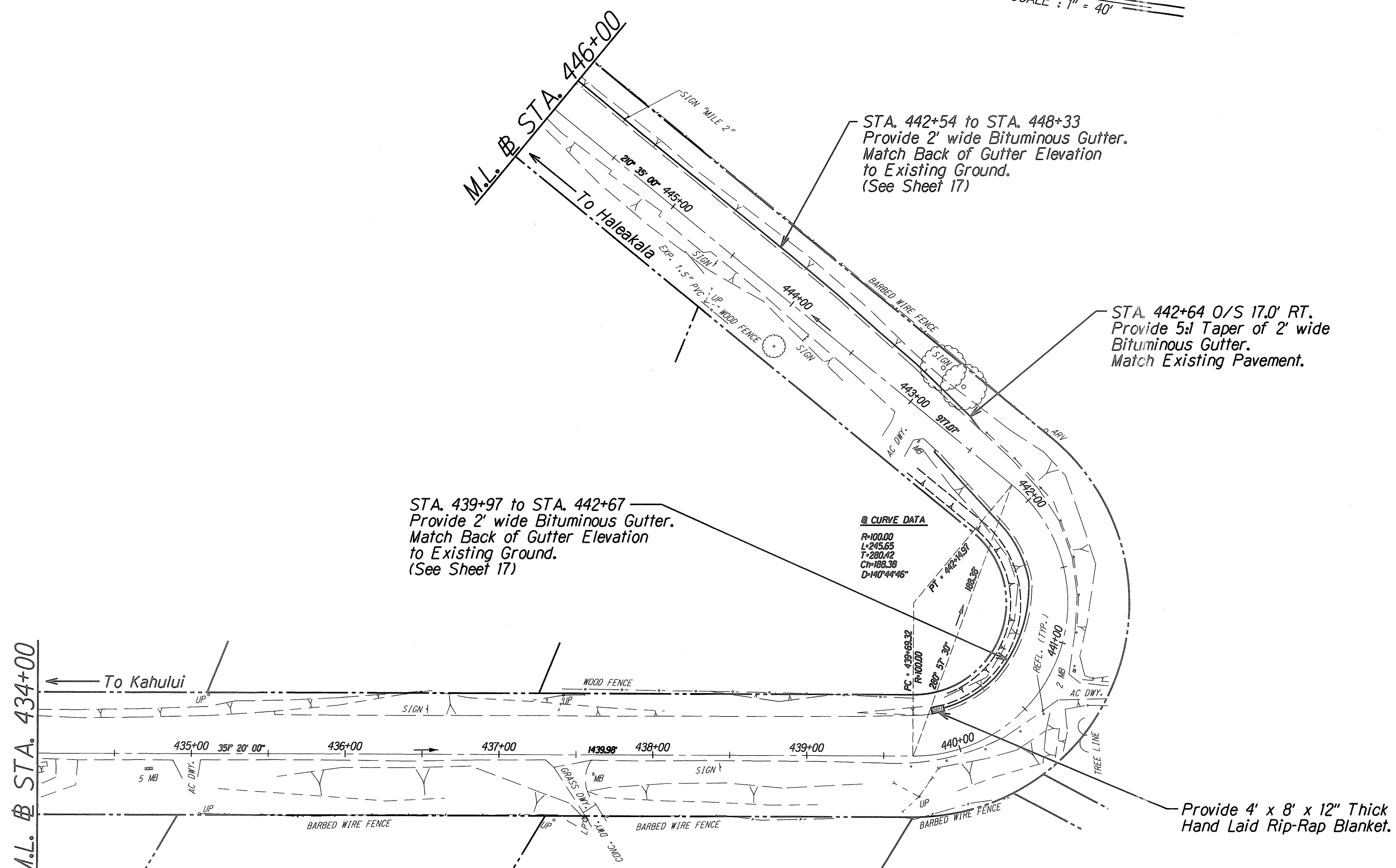
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SHEET No. 8 OF 47 SHEETS

26

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	27	73

TRUE NORTH
SCALE: 1" = 40'



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Corey H. Kobayashi
 DATE: 5/3/01

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**ROADWAY PLAN &
 CULVERT SECTIONS**

**HALEAKALA CRATER ROAD
 REPAIRS AND MAINTENANCE**

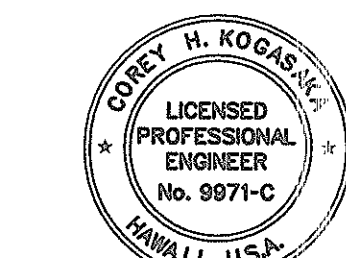
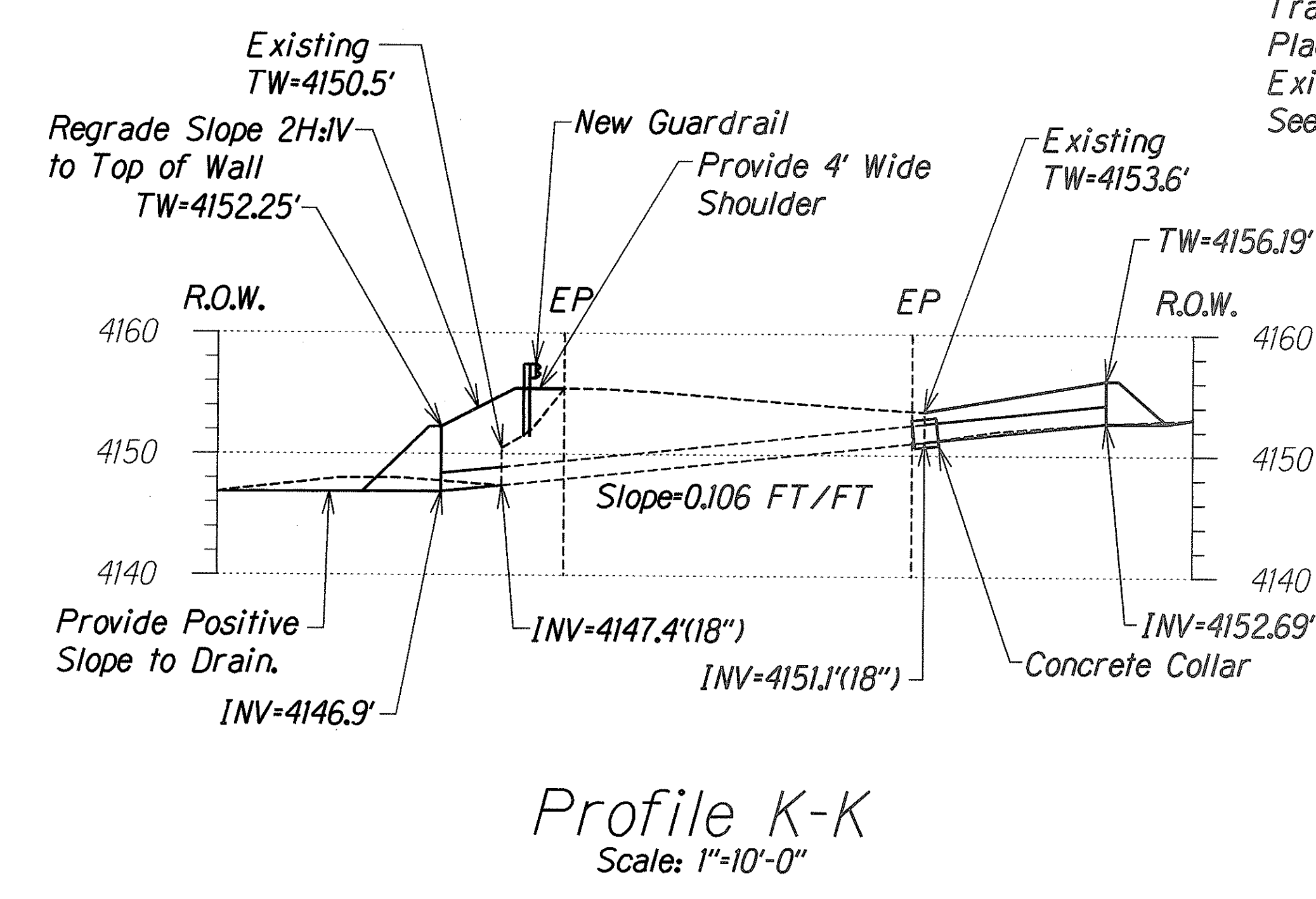
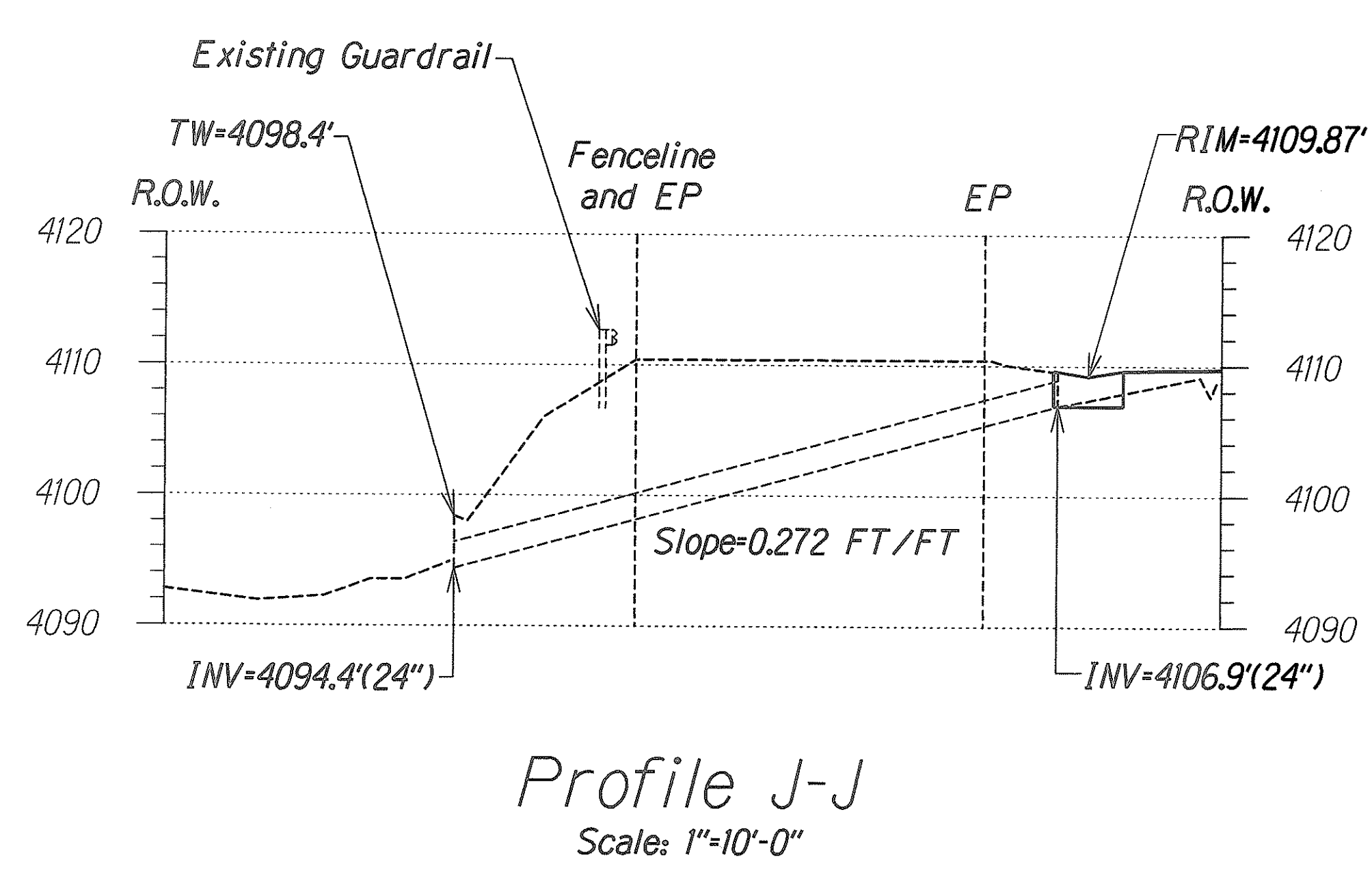
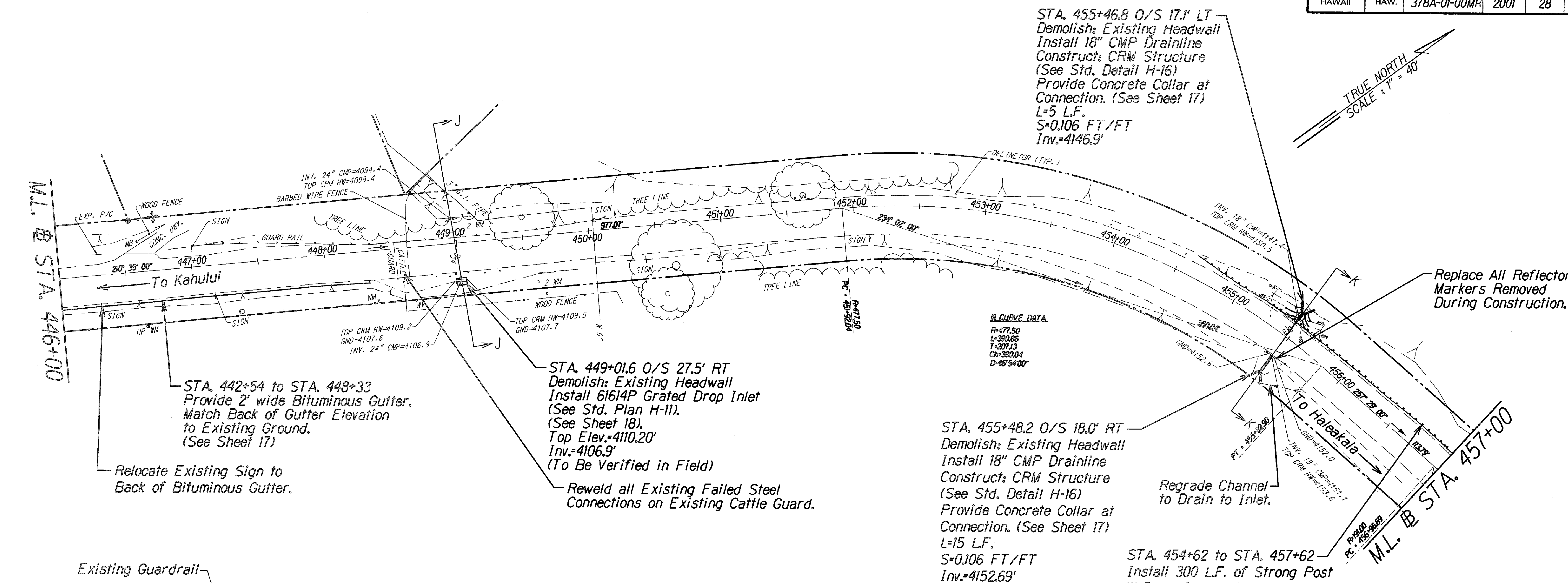
PROJECT NO. 378A-01-00MR

Scale: 1"=40' Date: January, 2001

SHEET No. 9 OF 47 SHEETS

SURVEY PLOTTED BY	DATE
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	28	73



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DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN & CULVERT SECTIONS

HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE

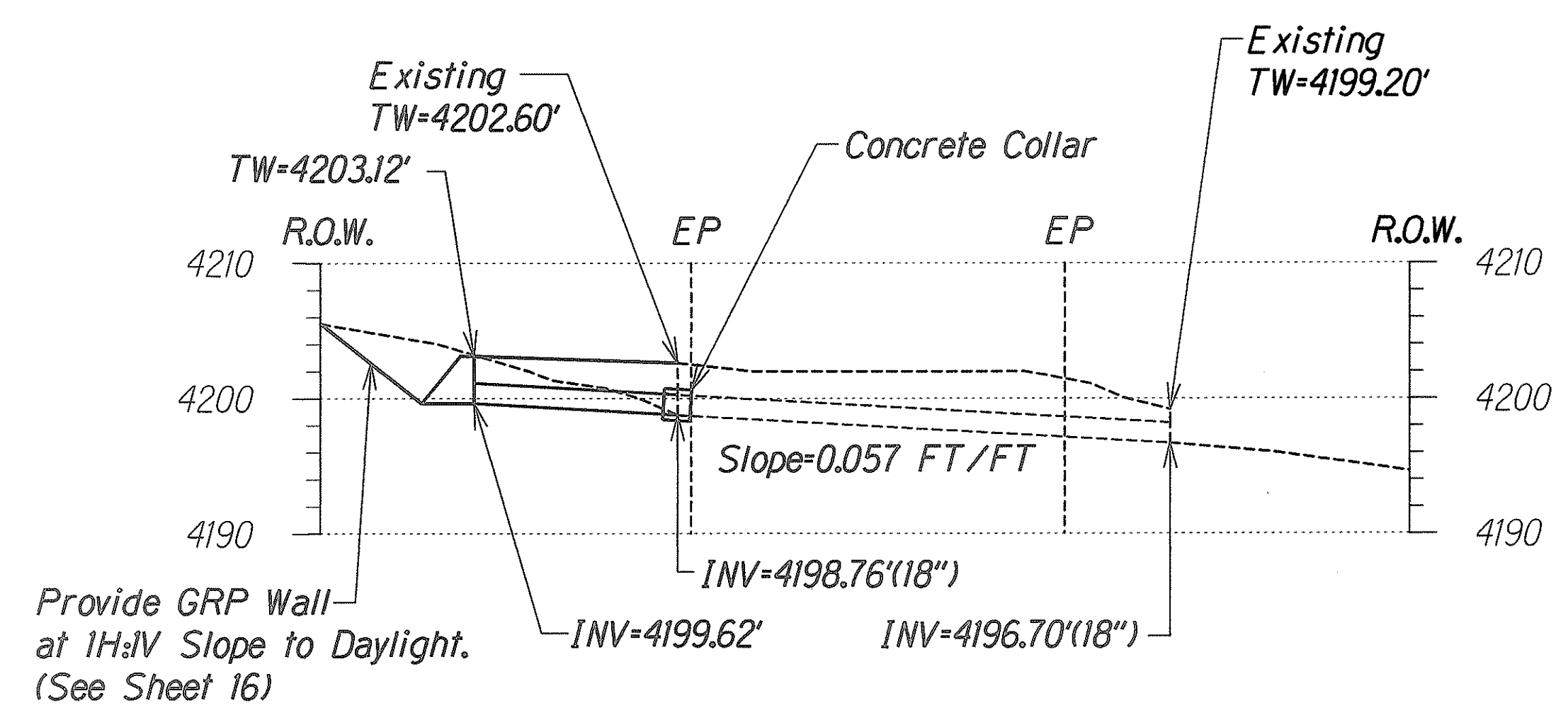
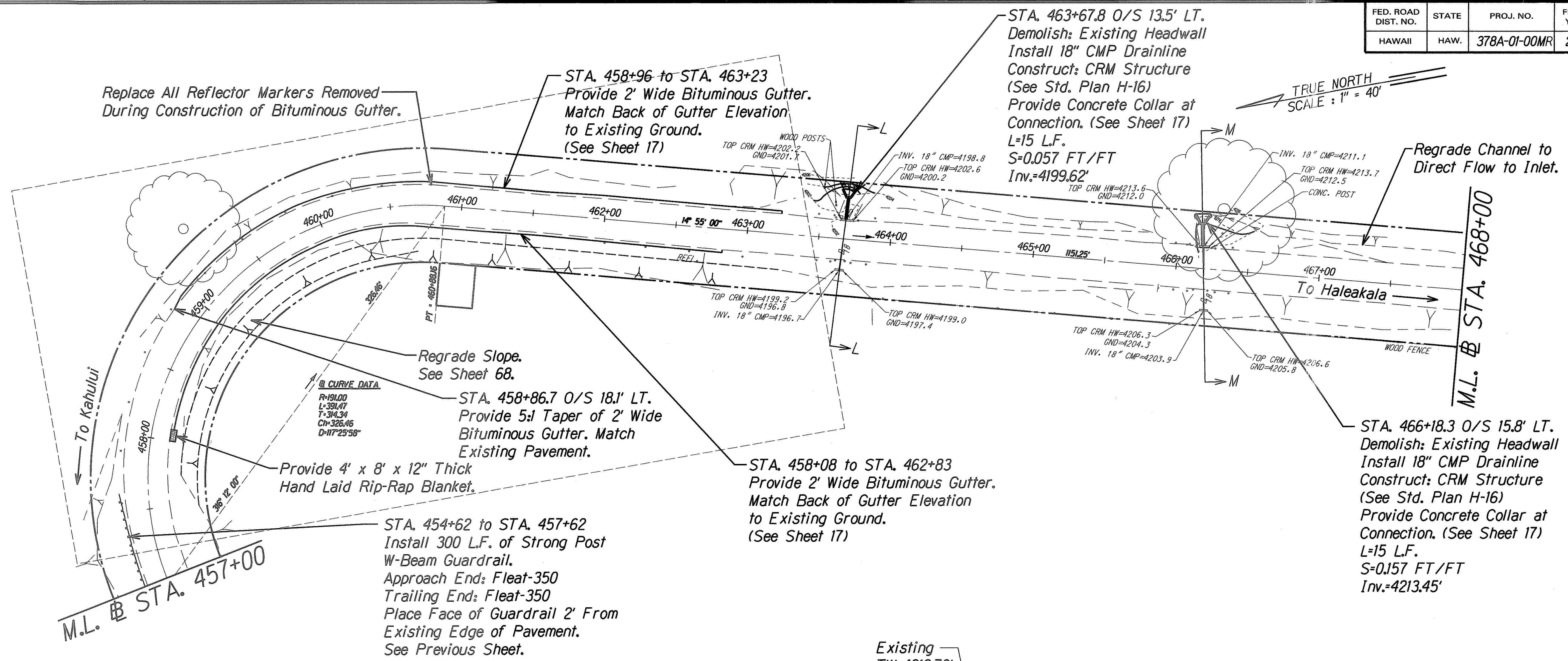
PROJECT NO. 378A-01-00MR

Scale: 1"=40' Date: January, 2001

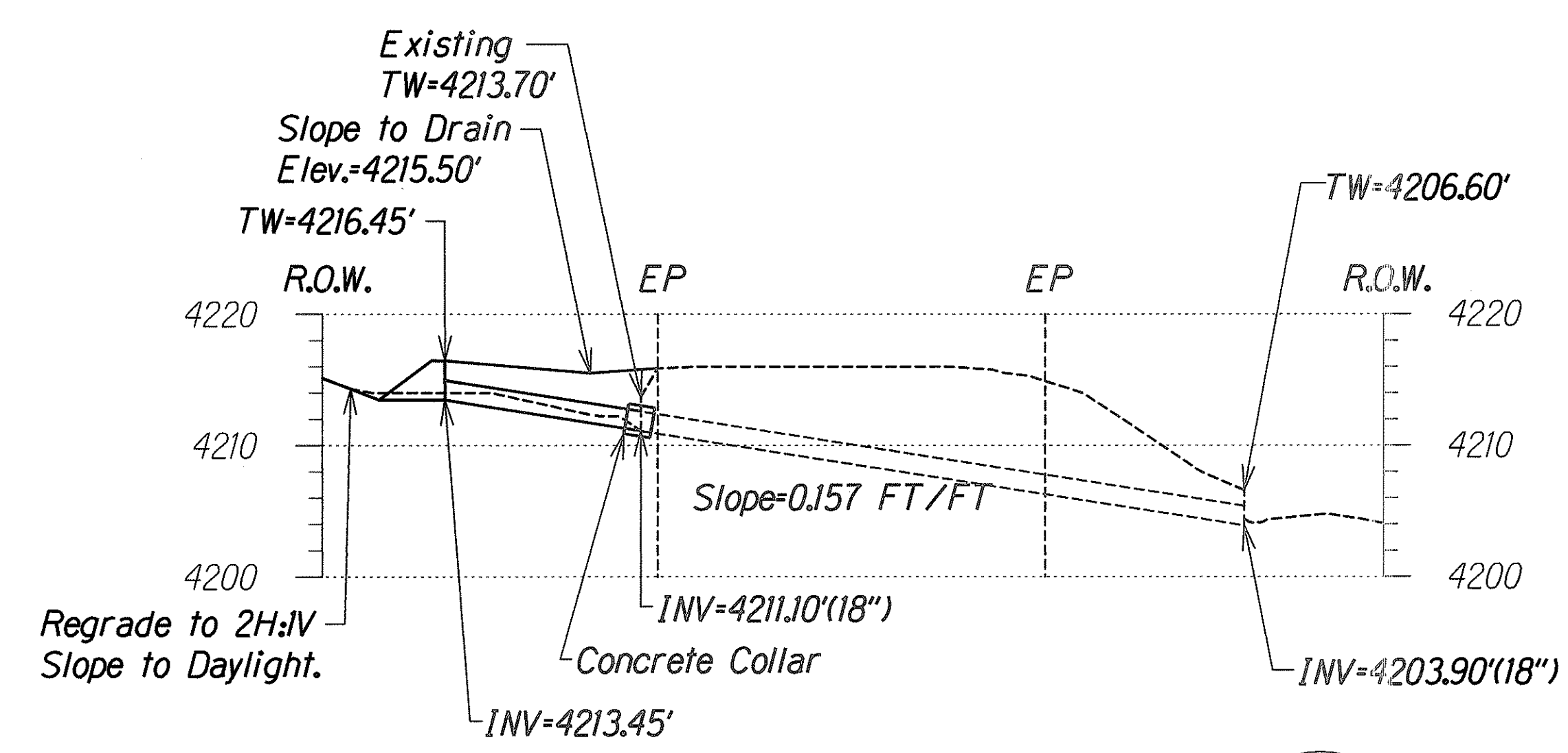
SHEET No. 10 OF 47 SHEETS

SURVEY PLOTTED BY	DATE
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	29	73



Profile L-L
Scale: 1"=10'-0"



Profile M-M
Scale: 1"=10'-0"

SURVEY PLOTTED BY	DATE
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TRACED BY	
CHECKED BY	
NOTE BOOK	
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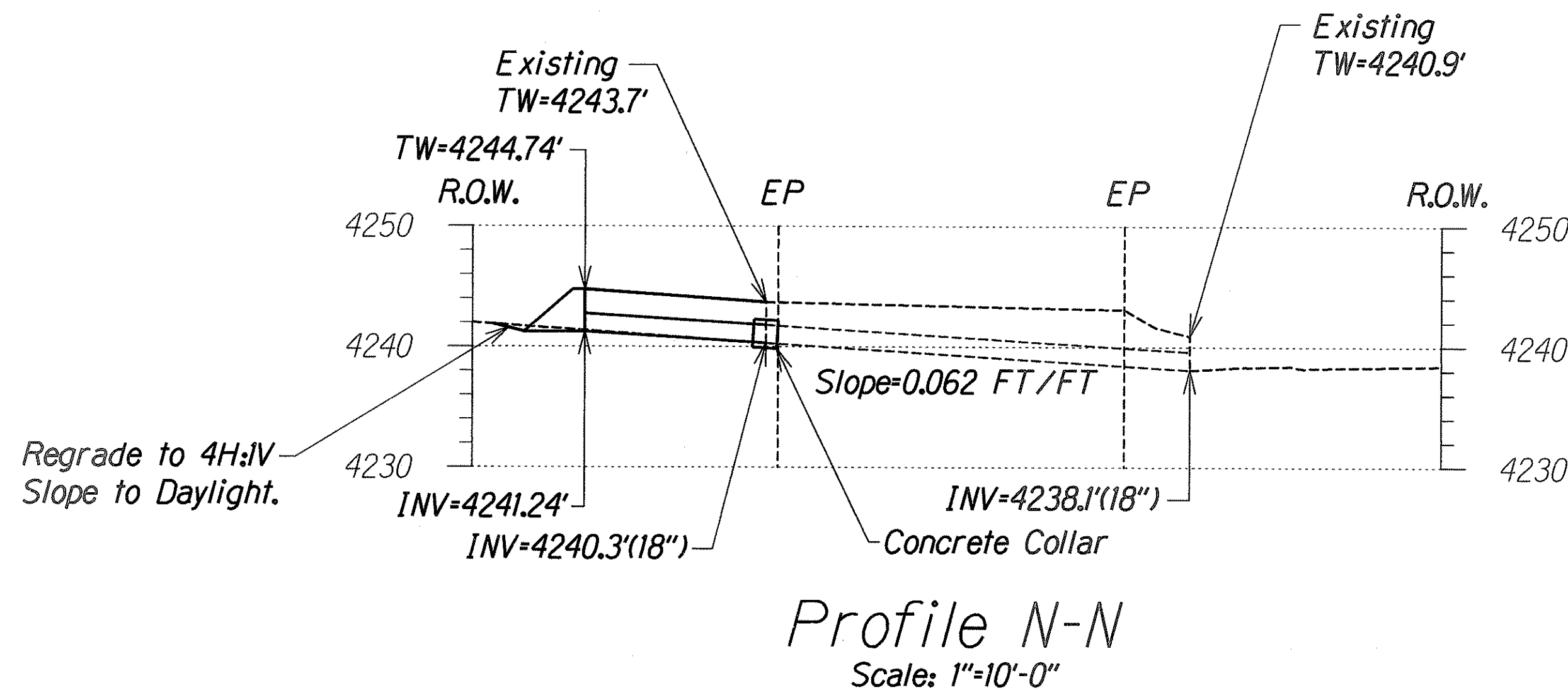
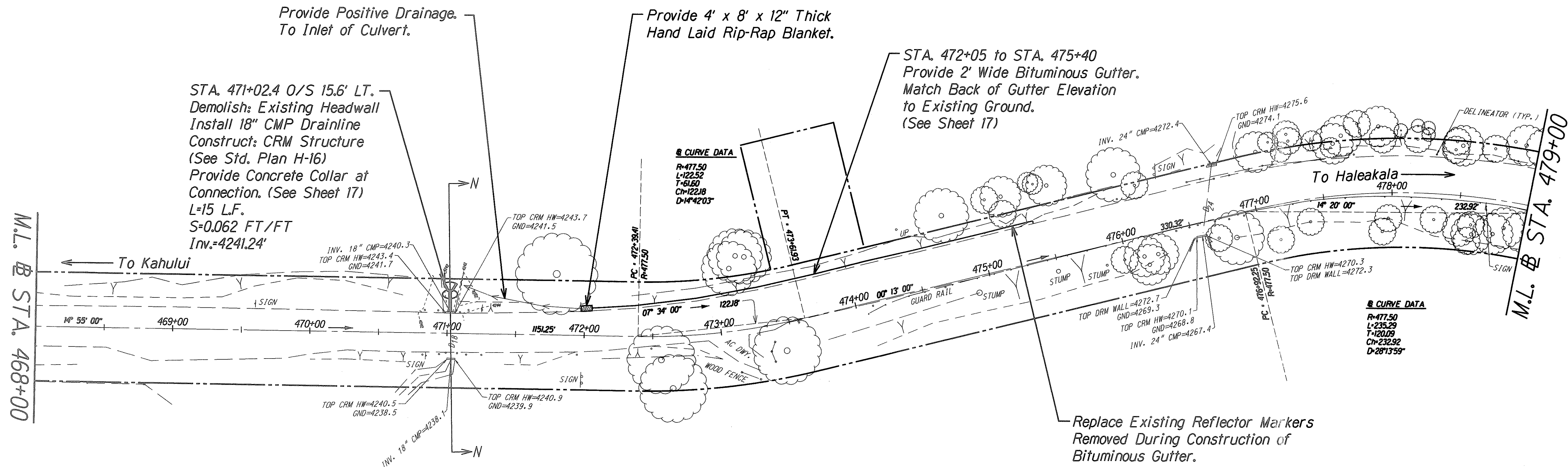


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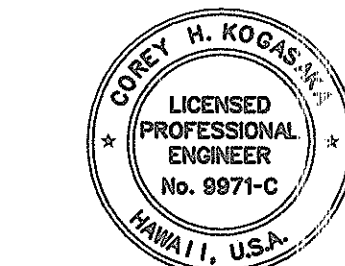
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN #
CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 11 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	30	73

TRUE NORTH
SCALE: 1" = 40'



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



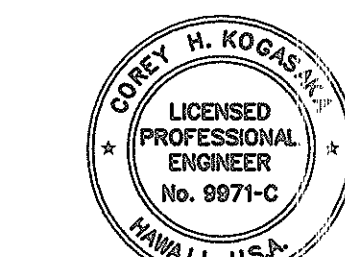
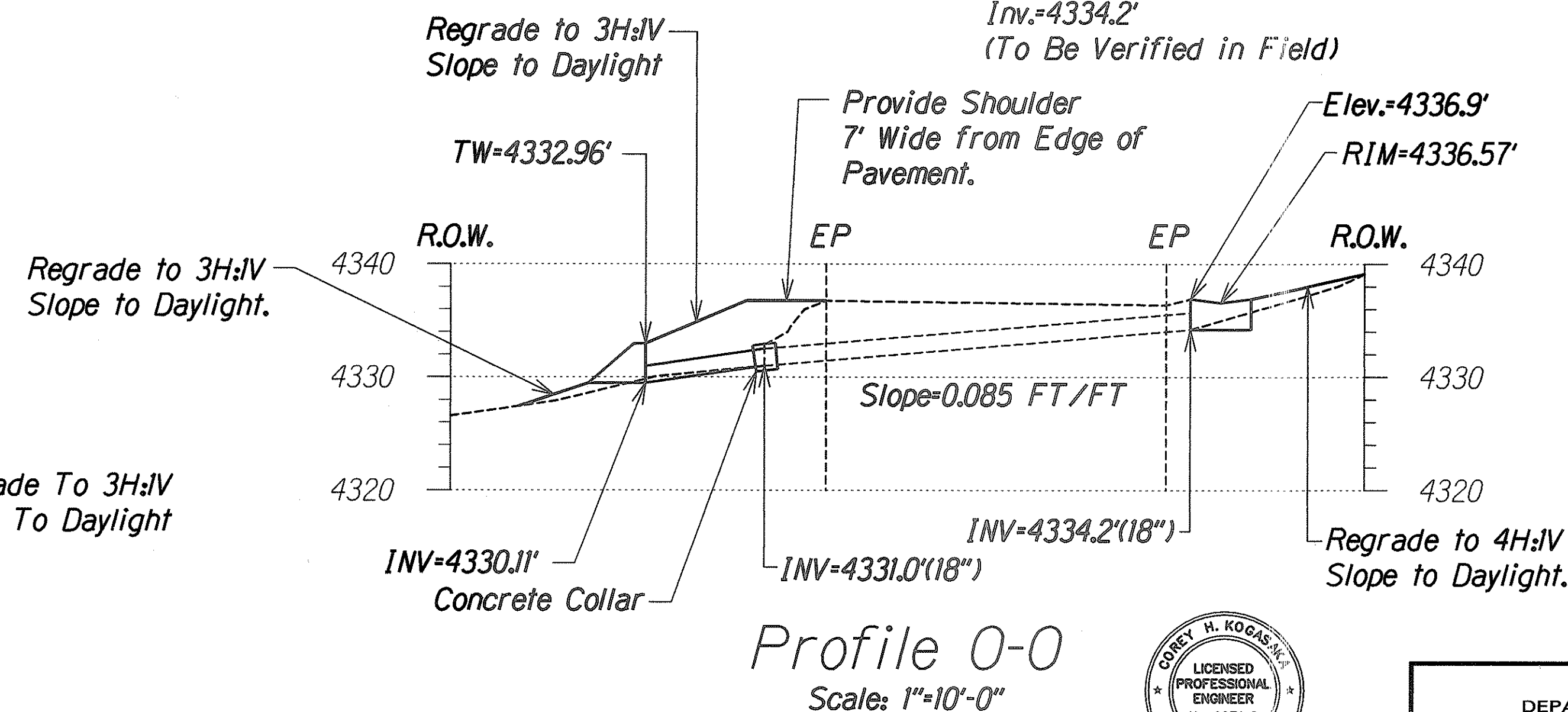
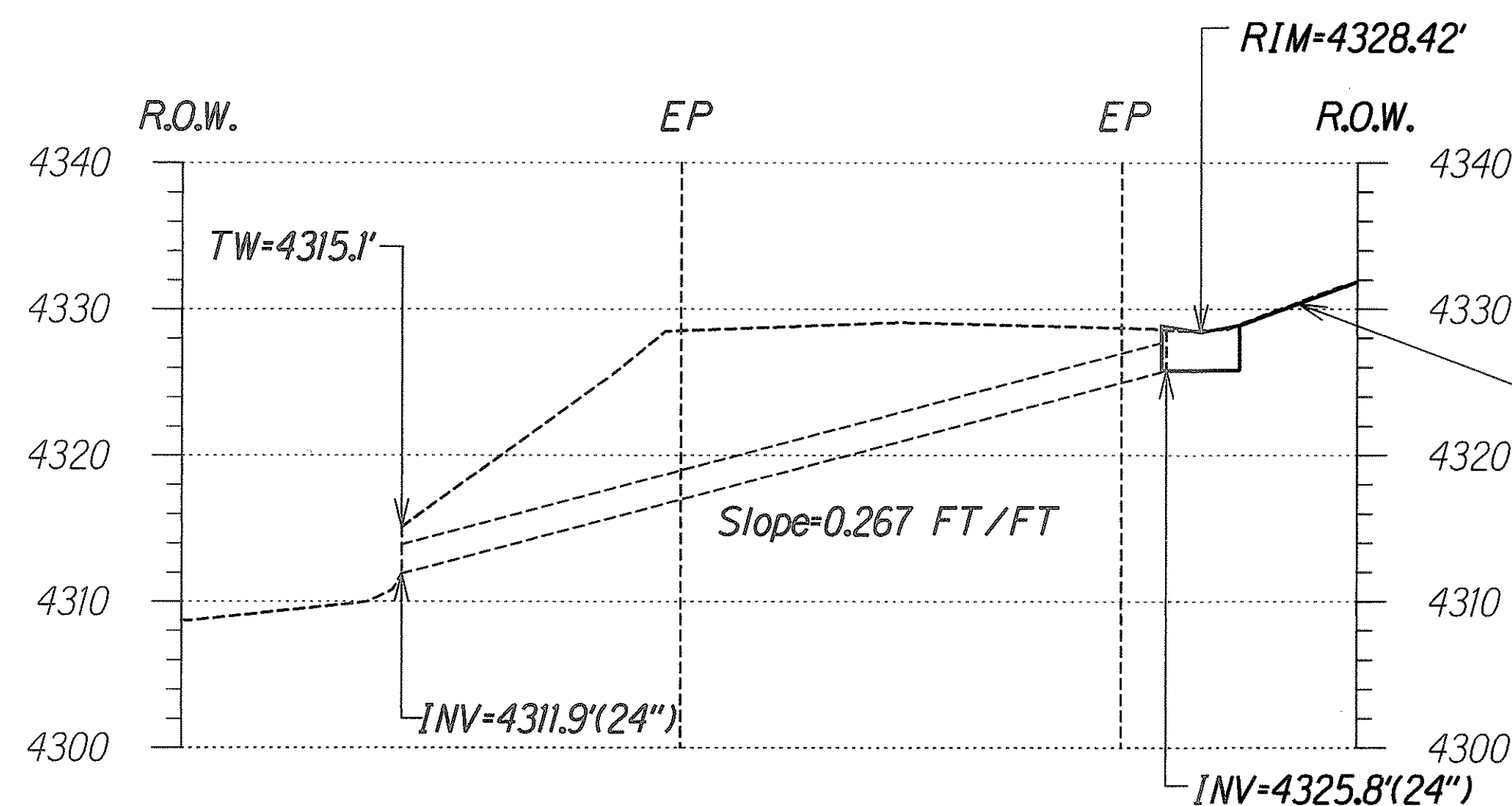
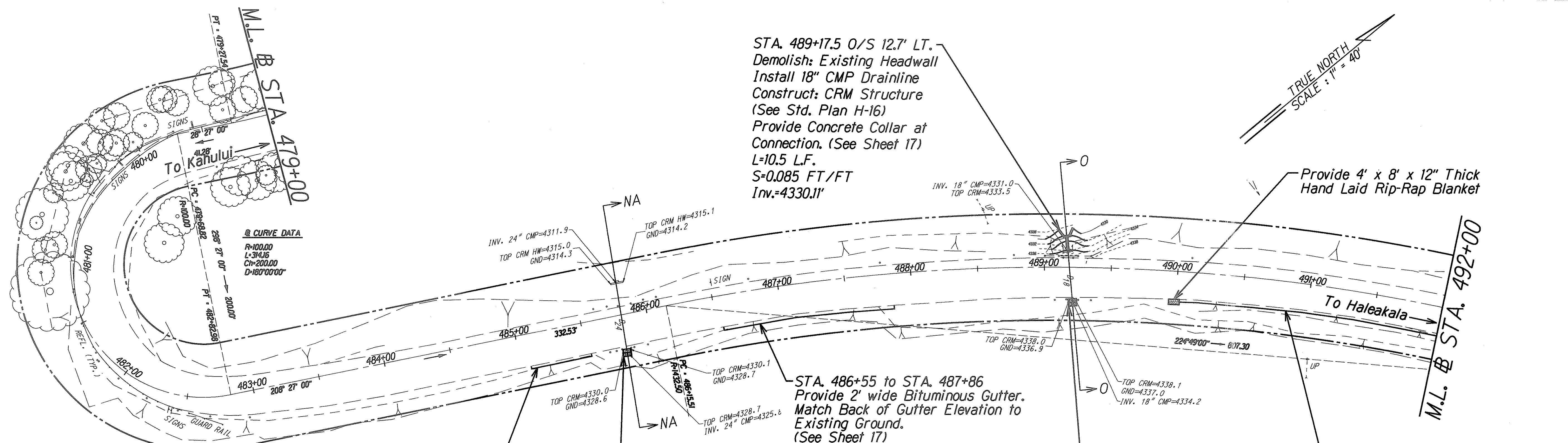
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

SHEET No. 12 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	31	73



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 DATE: 5/3/01

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN & CULVERT SECTIONS

HALEAKALA CRATER ROAD REPAIRS AND MAINTENANCE

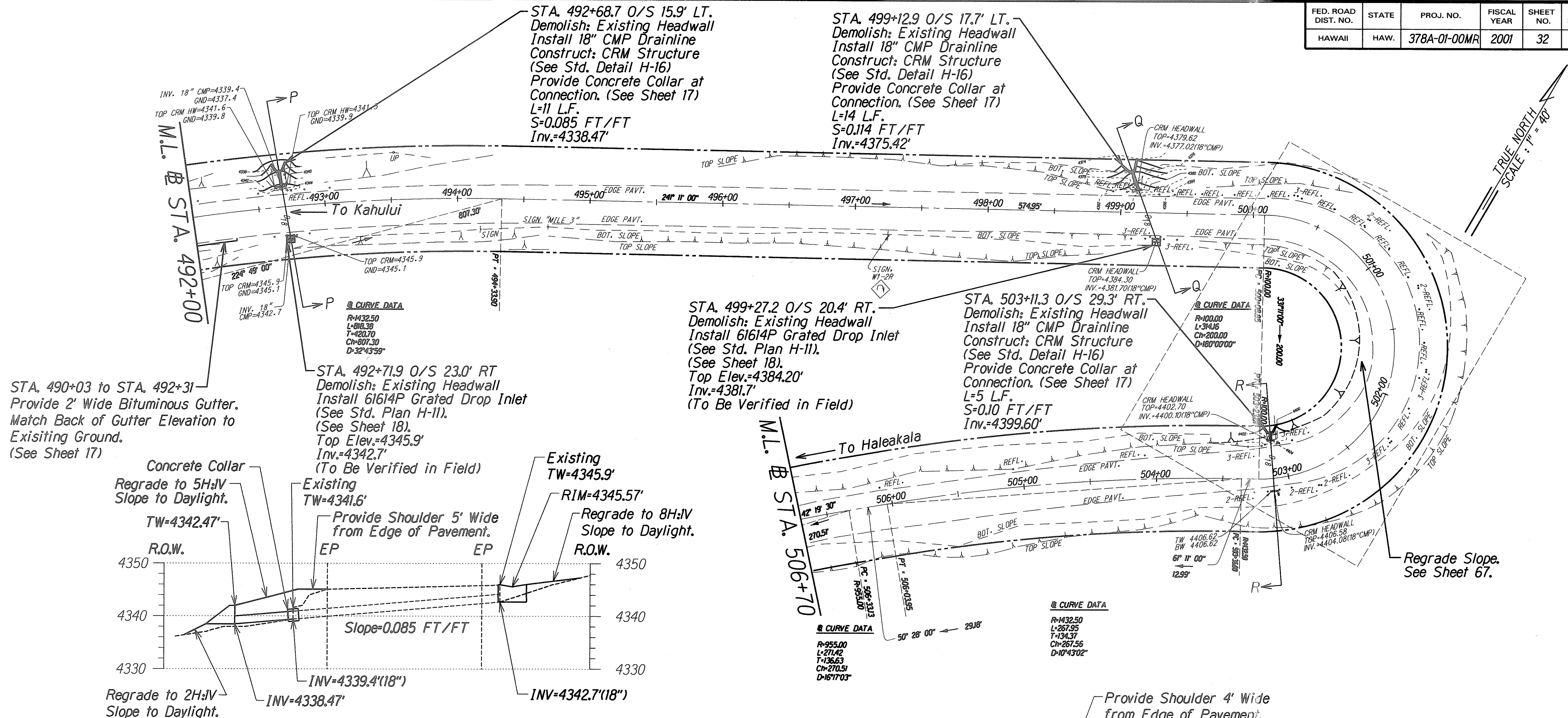
PROJECT NO. 378A-01-00MR

Scale: 1"=40' Date: January, 2001

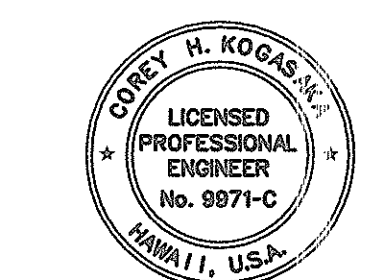
SHEET No. 13 OF 47 SHEETS

SURVEY PLOTTED BY	DATE
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QUANTITIES BY	
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	32	73



SURVEY PLANNED BY	DATE
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DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
QUANTITIES BY	
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Corey H. Kostas

DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**

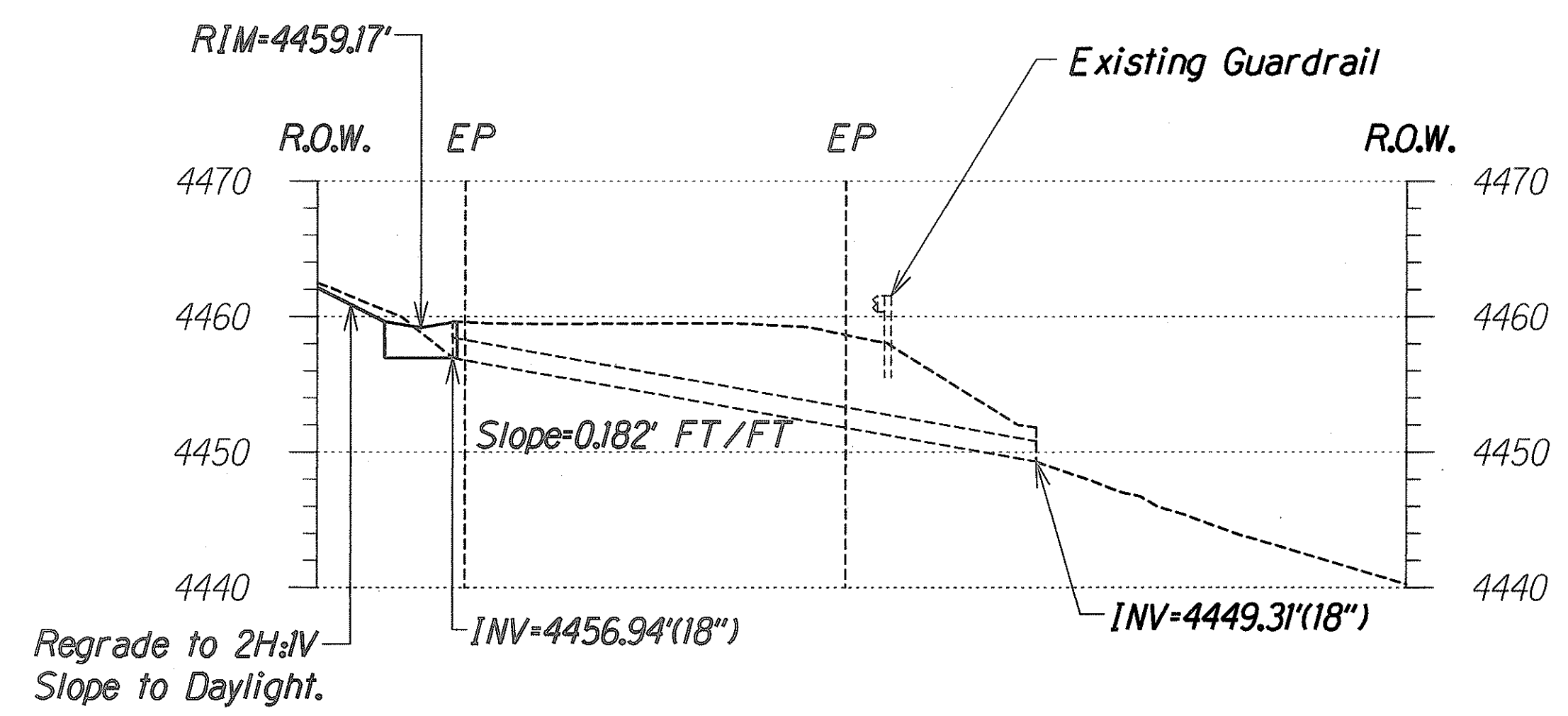
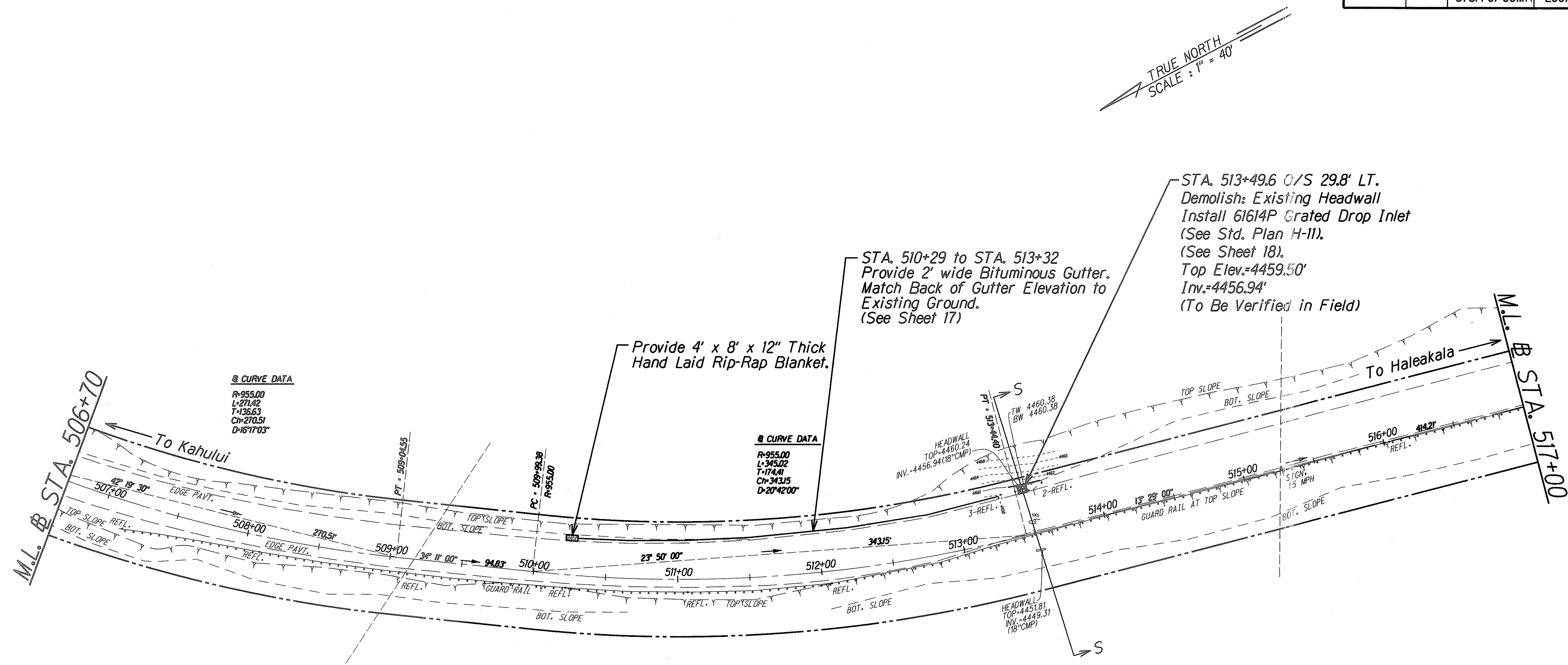
**HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE**

PROJECT NO. 378A-01-00MR

Scale: 1"=40' Date: January, 2001

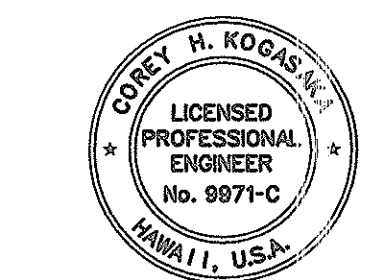
SHEET No. 14 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	33	73



Profile S-S
Scale: 1"=10'-0"

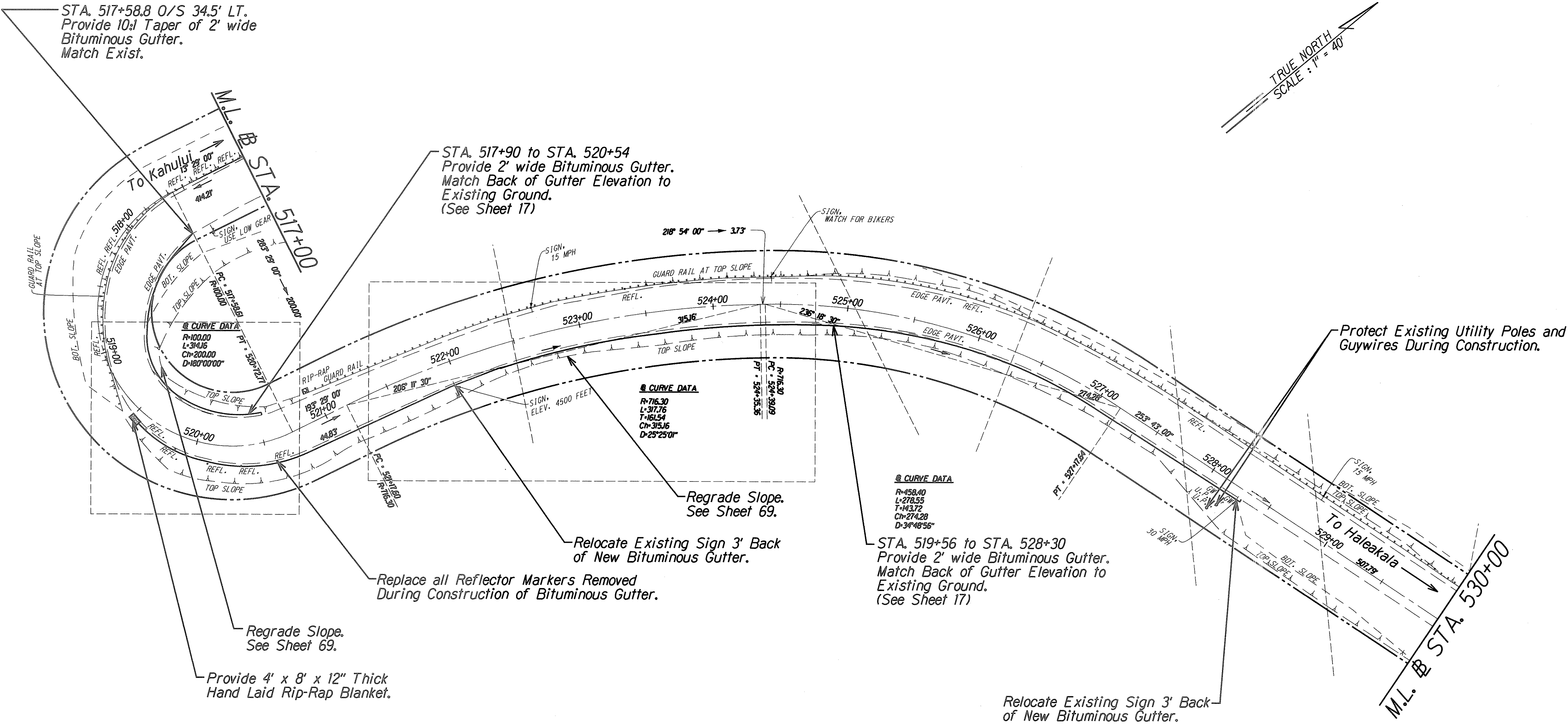
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NOTE BOOK	
QUANTITIES BY	
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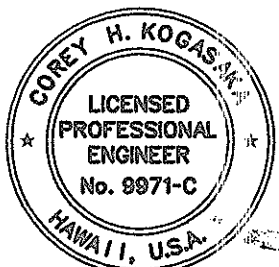
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**ROADWAY PLAN &
CULVERT SECTIONS**
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 15 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	34	73



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

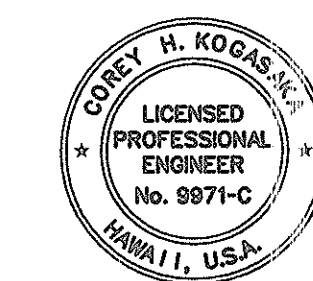
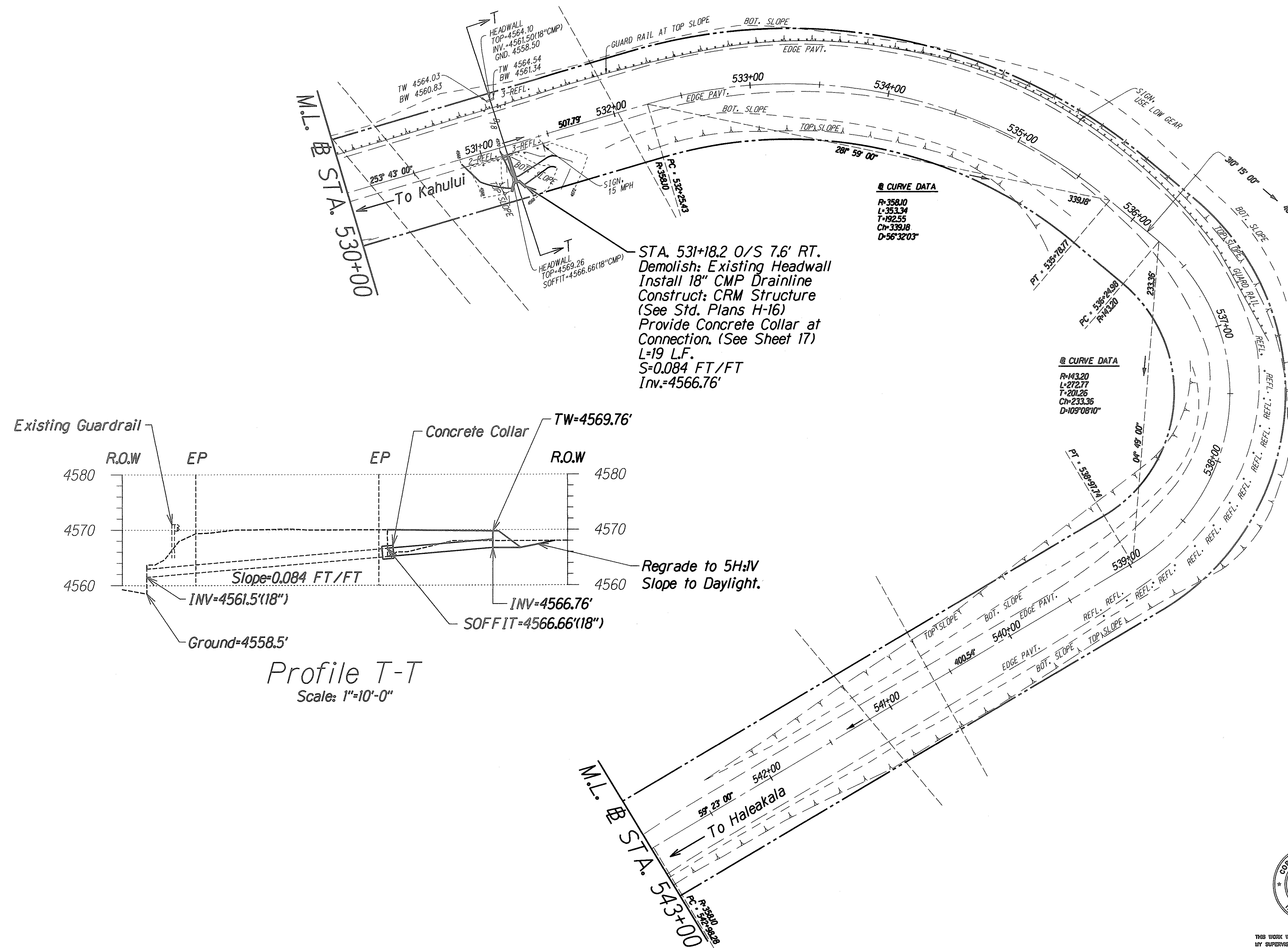


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DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN & CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 16 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	35	73



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DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**

**HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE**

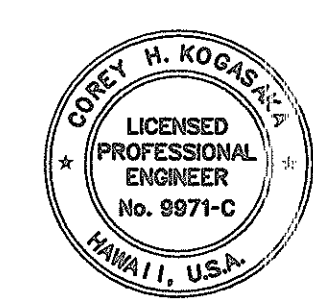
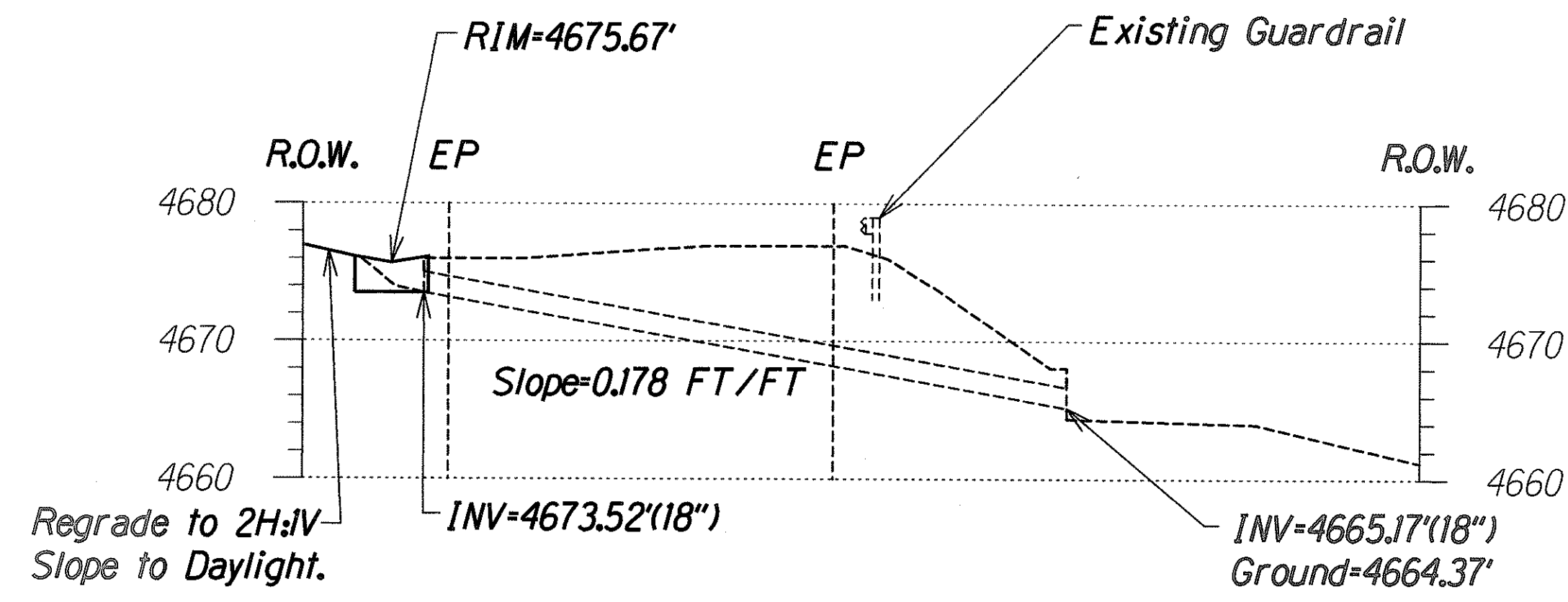
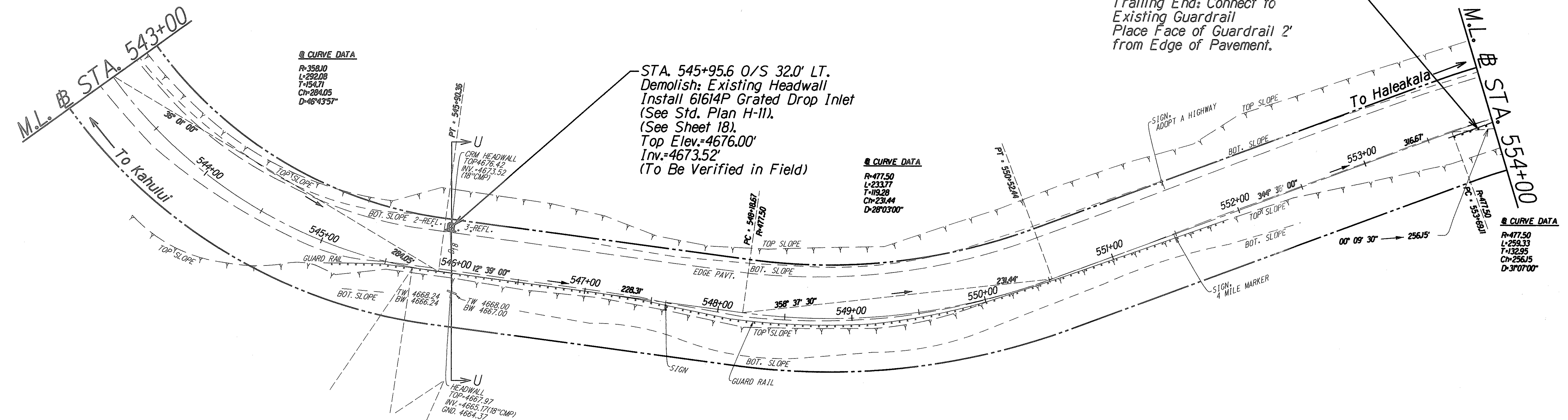
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

SHEET No. 17 OF 47 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	36	73

TRUE NORTH
SCALE : 1" = 40'



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DATE: 5/3/01

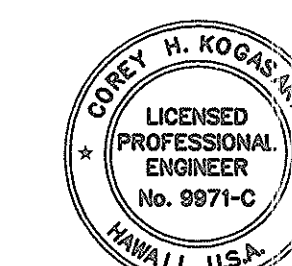
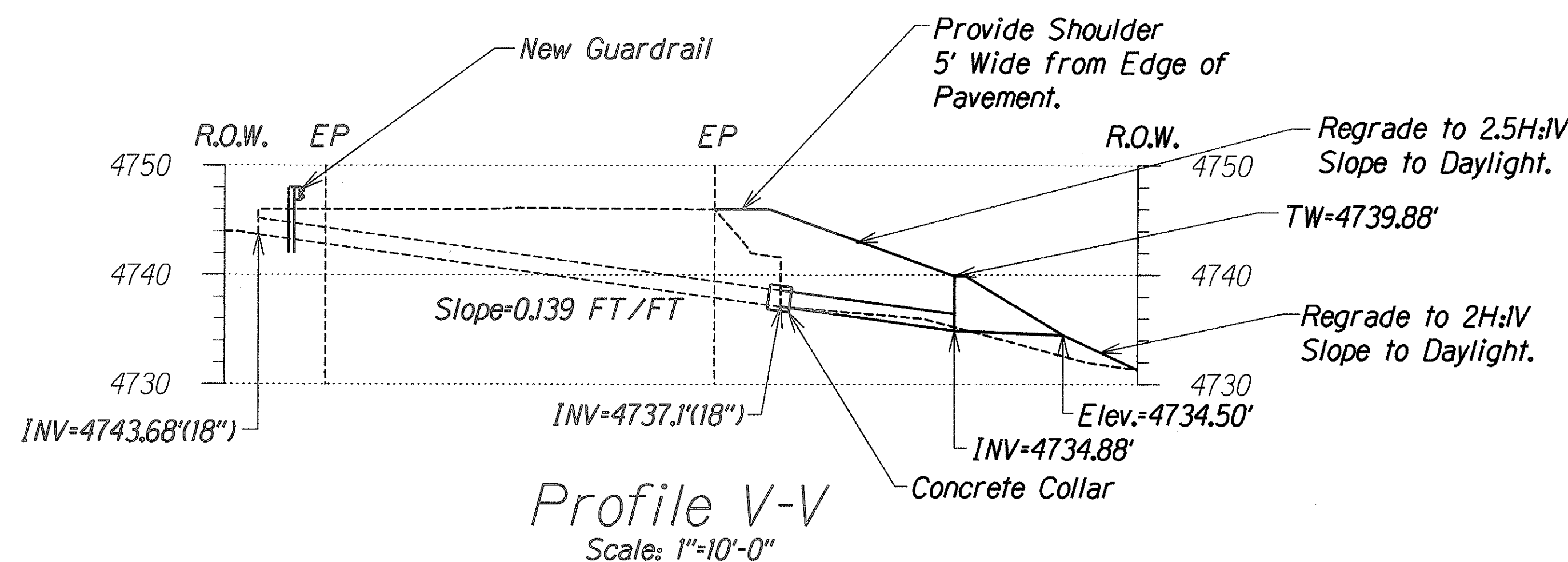
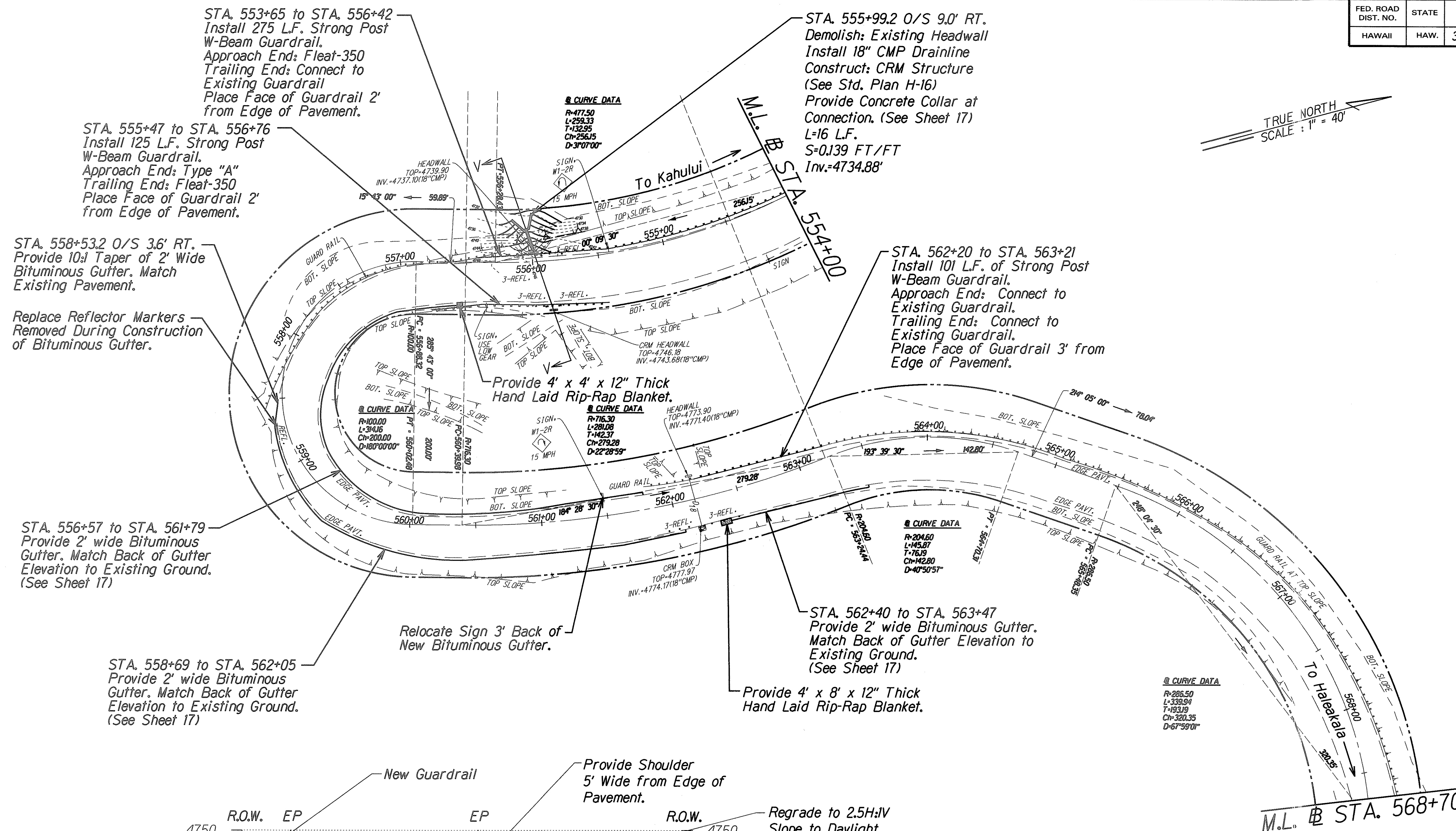
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**
 HALEAKALA CRATER ROAD
 REPAIRS AND MAINTENANCE
 PROJECT NO. 378A-01-00MR
 Scale: 1"=40' Date: January, 2001

SHEET No. 18 OF 47 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	37	73



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 DATE: 5/3/01

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**ROADWAY PLAN &
 CULVERT SECTIONS**

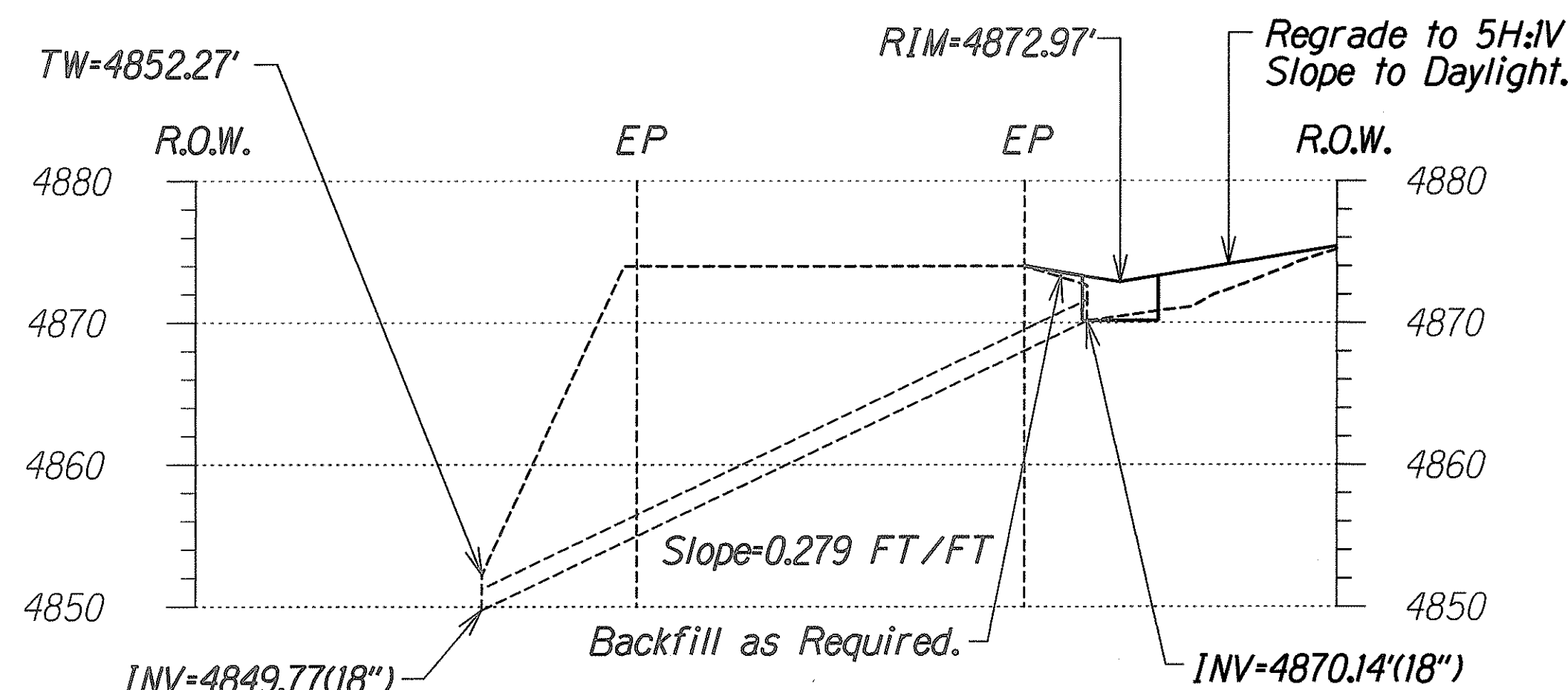
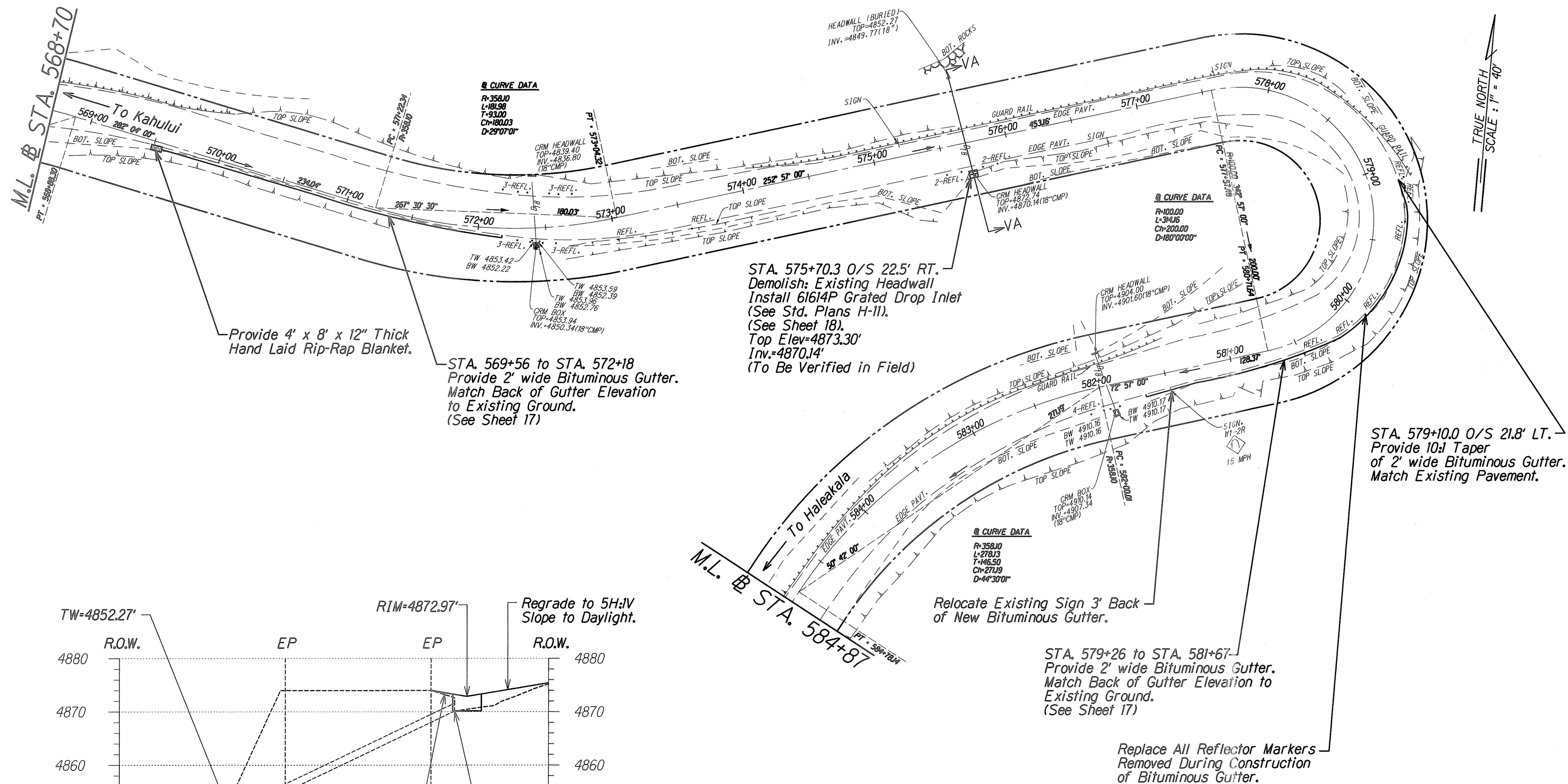
**HALEAKALA CRATER ROAD
 REPAIRS AND MAINTENANCE**

PROJECT NO. 378A-01-00MR

Scale: 1"=40' Date: January, 2001

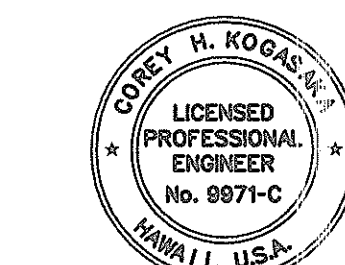
SHEET No. 19 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	38	73



Profile VA-VA
 Scale: 1"=10'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
Nº	



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 DATE: 5/3/01

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**ROADWAY PLAN &
 CULVERT SECTIONS**

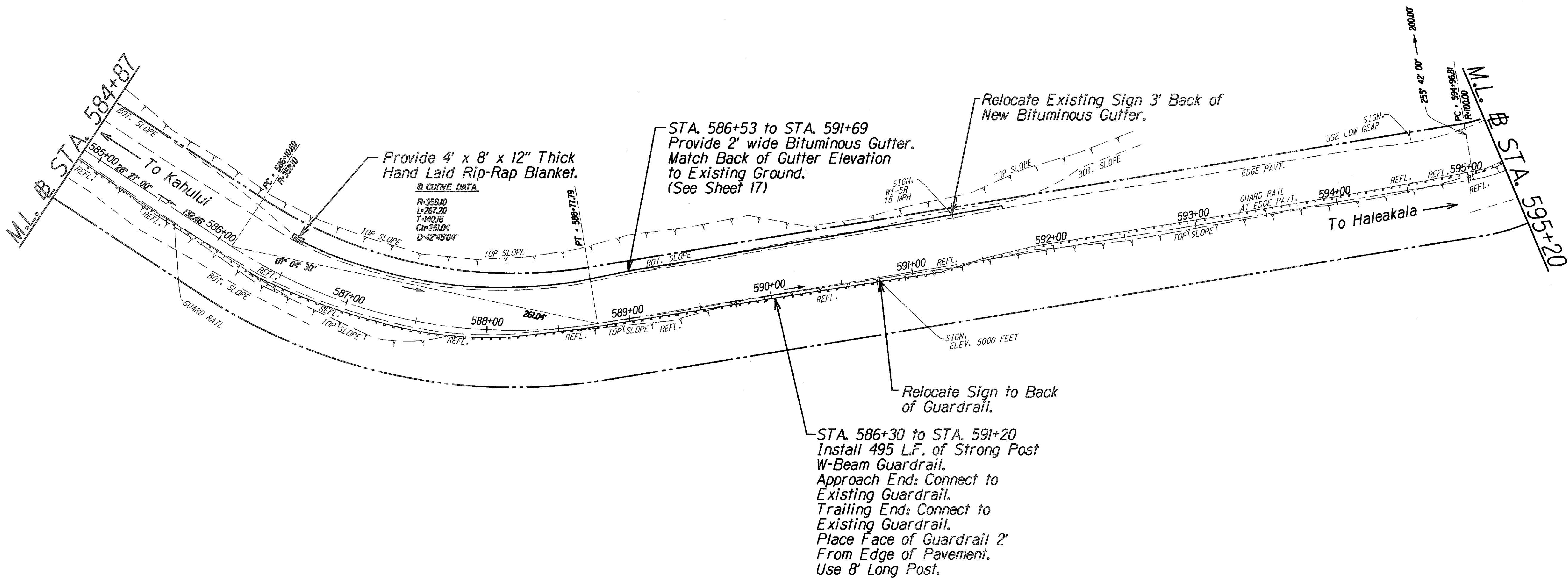
**HALEAKALA CRATER ROAD
 REPAIRS AND MAINTENANCE**

PROJECT NO. 378A-01-00MR
 Scale: 1"=40' Date: January, 2001

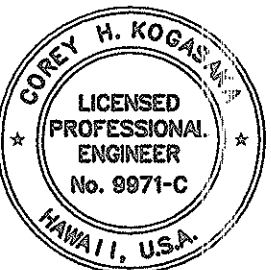
SHEET NO. 20 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	39	73

TRUE NORTH
SCALE : 1" = 40'



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DRAWN BY		
DESIGNED BY		
CHECKED BY		
NOTED BY		
Nº		



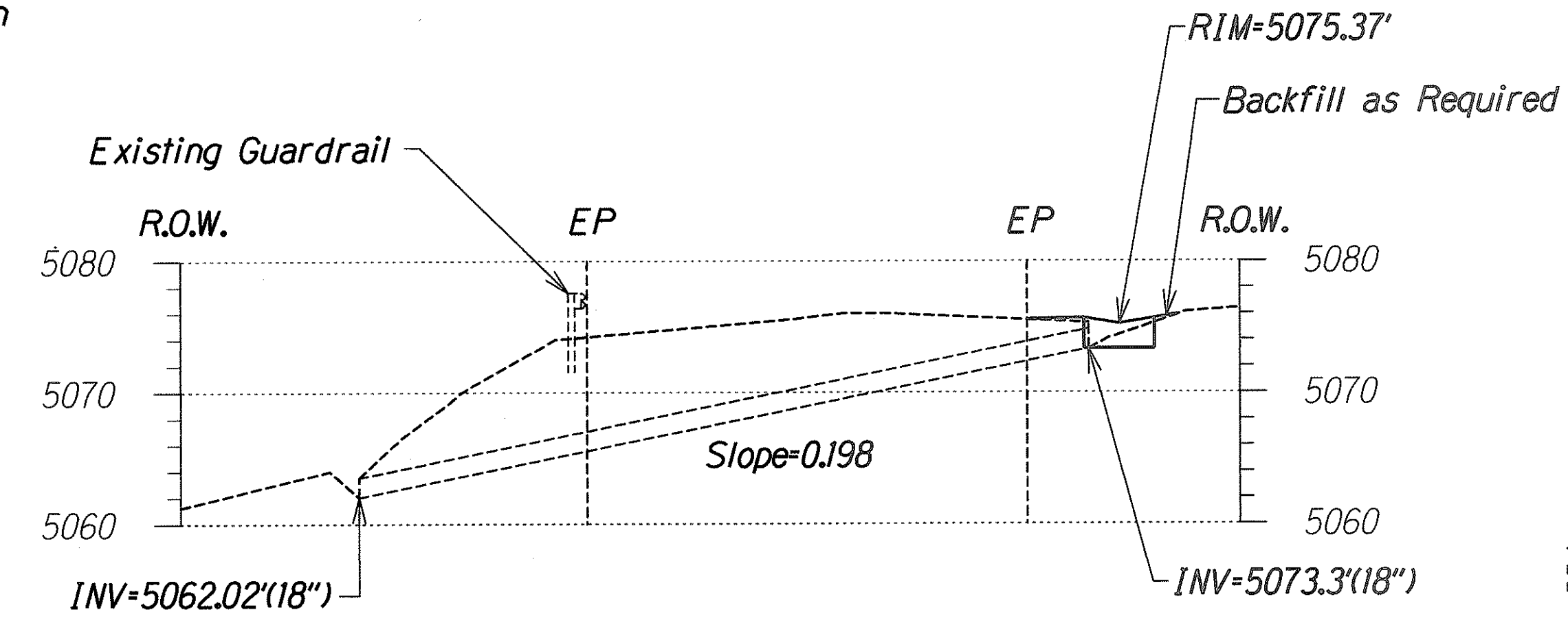
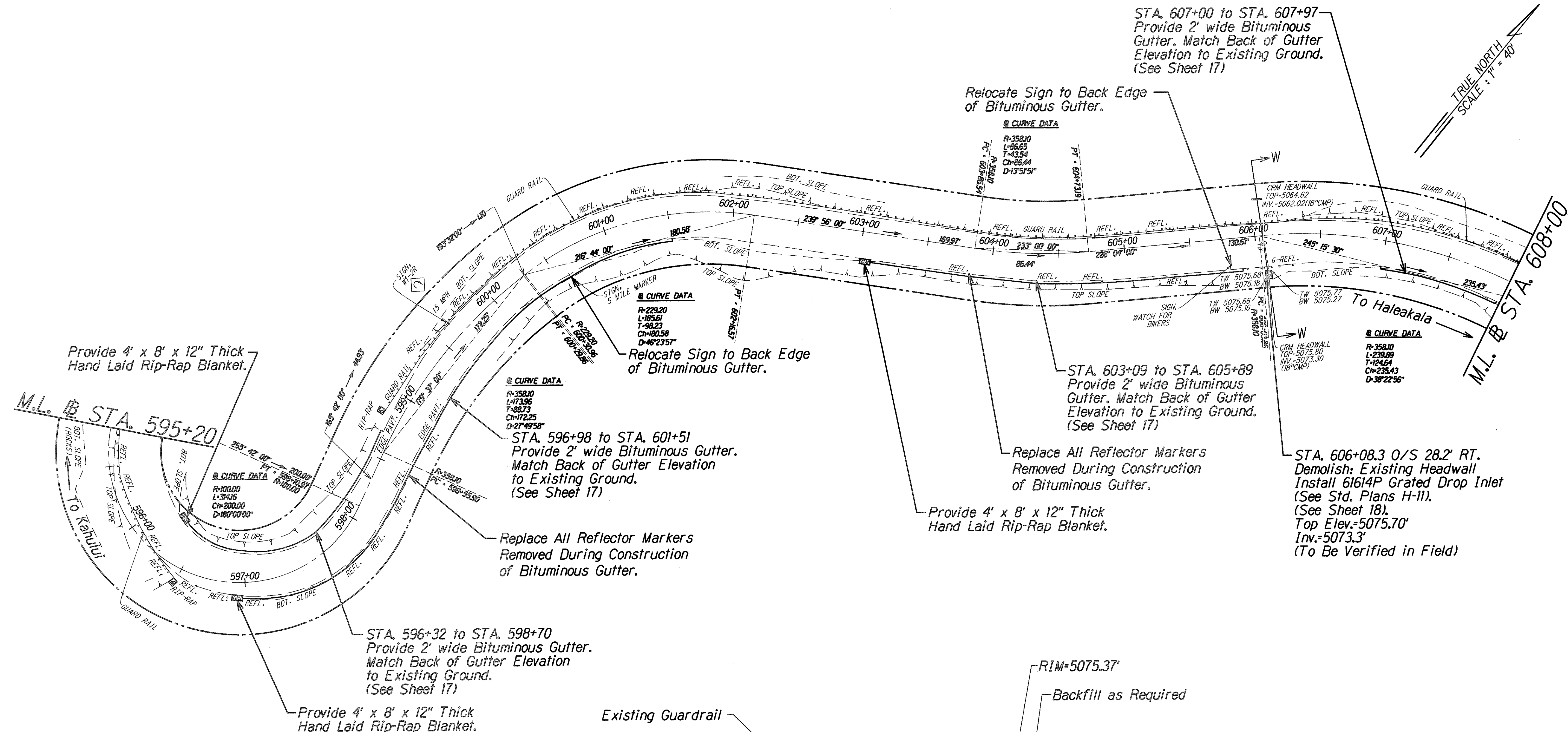
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DATE: 5/3/01

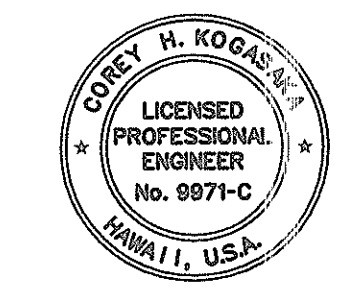
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN &
CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 21 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	40	73



Profile W-W
Scale: 1"=10'-0"



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DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**

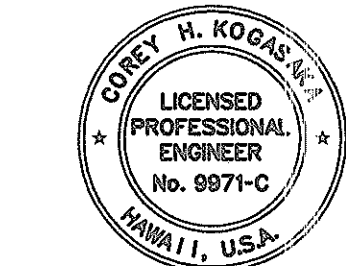
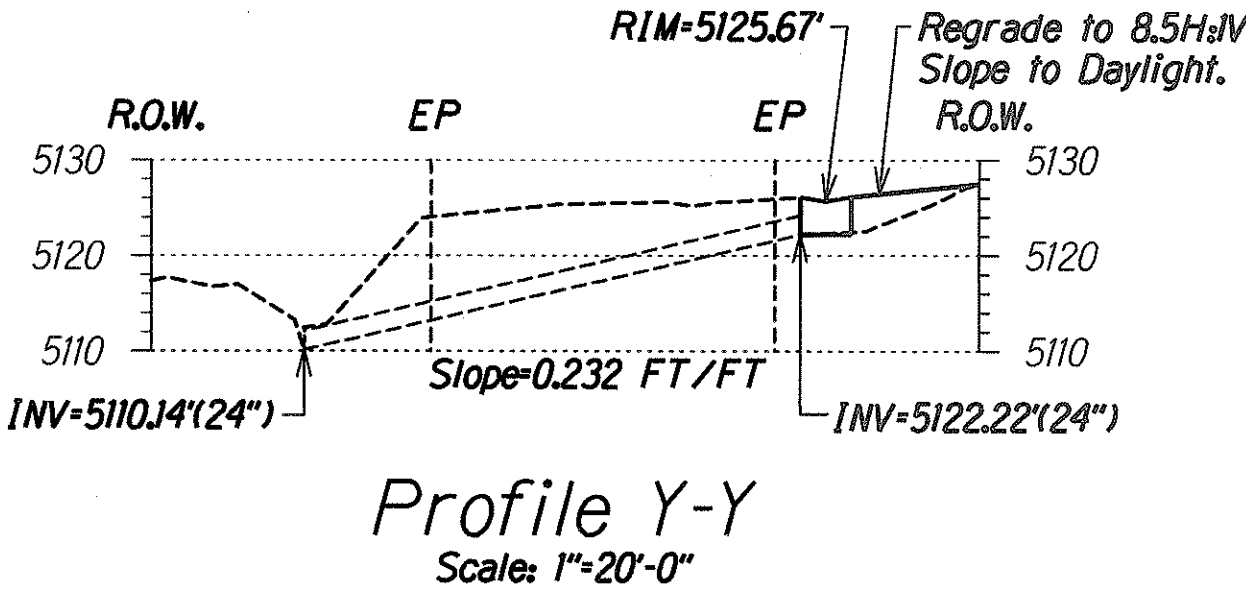
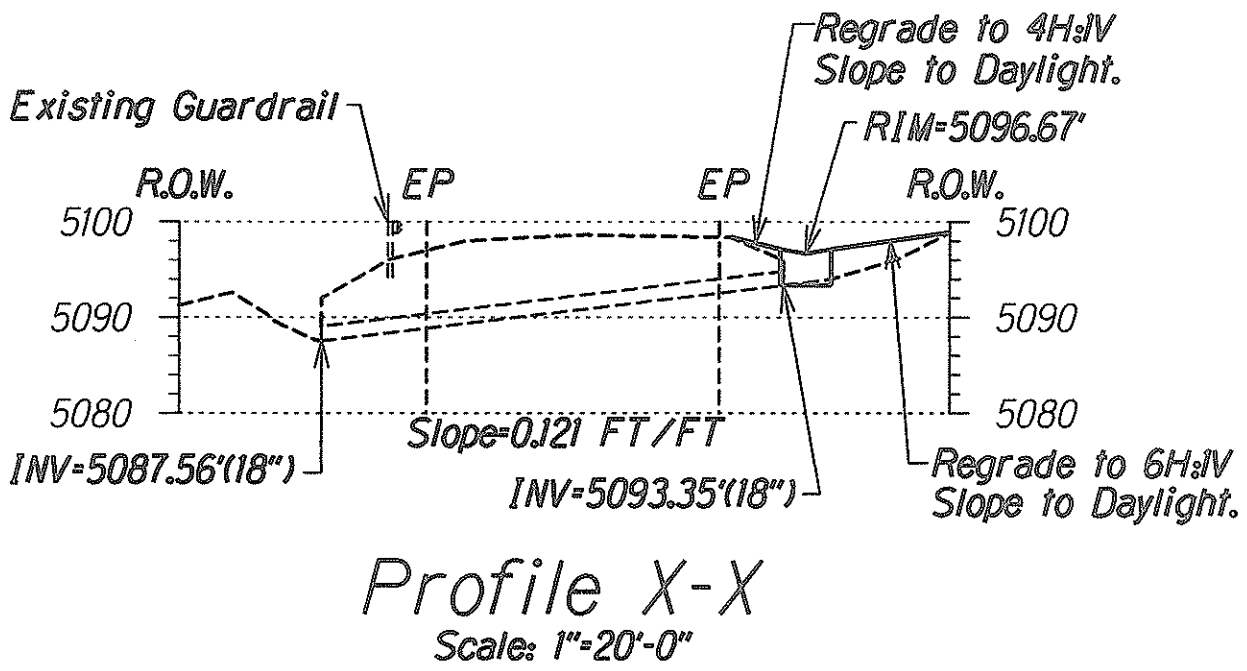
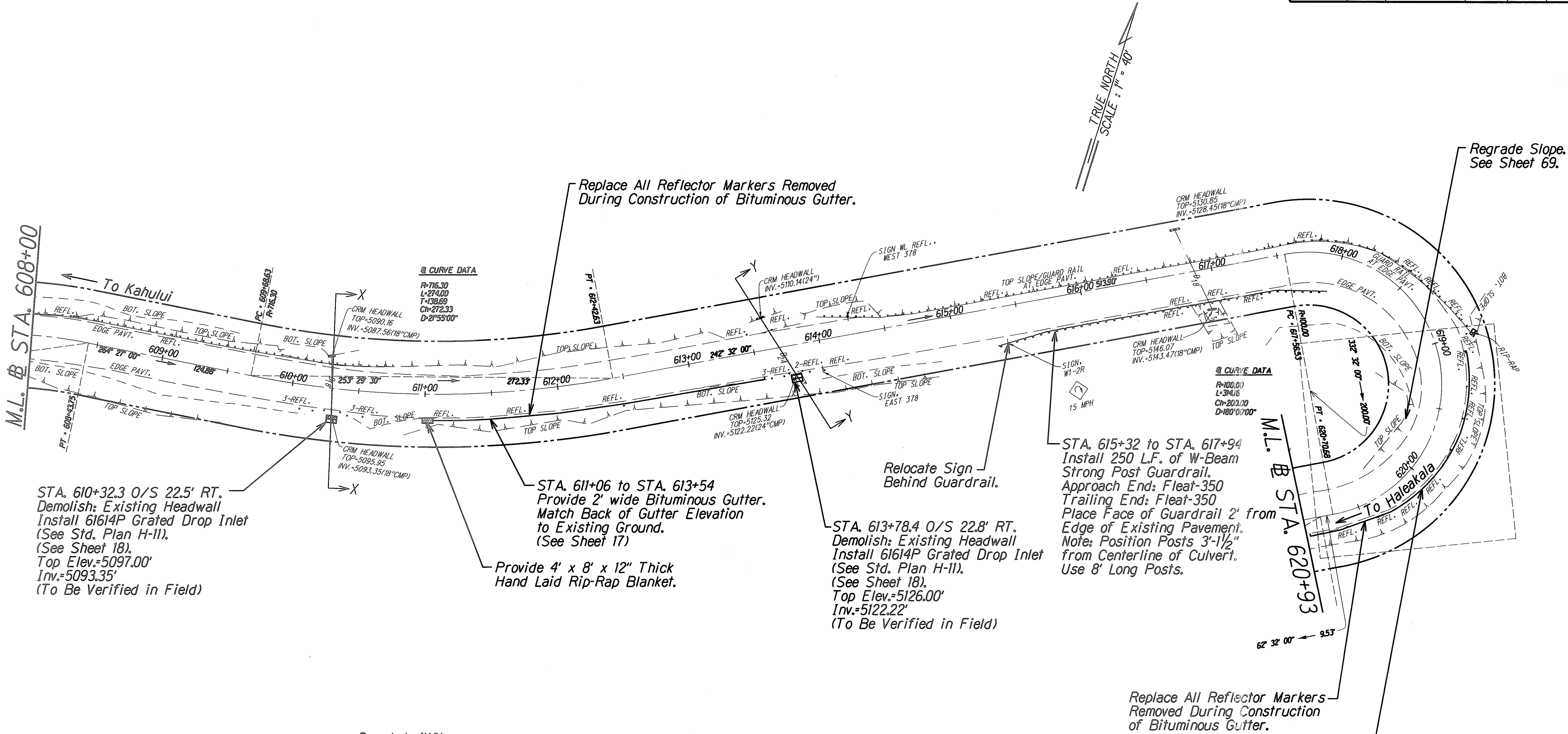
**HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE**

PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

SHEET No. 22 OF 47 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
N.A.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	41	73

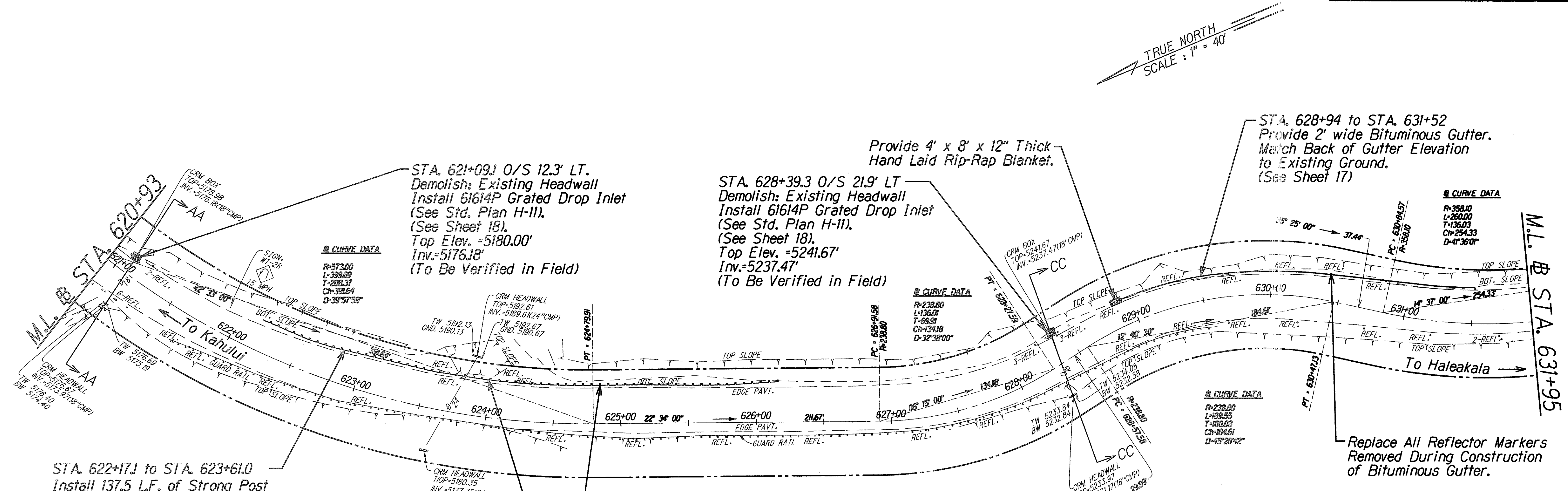


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Corey H. Kogas
DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**ROADWAY PLAN &
CULVERT SECTIONS**
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 23 OF 47 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	42	73



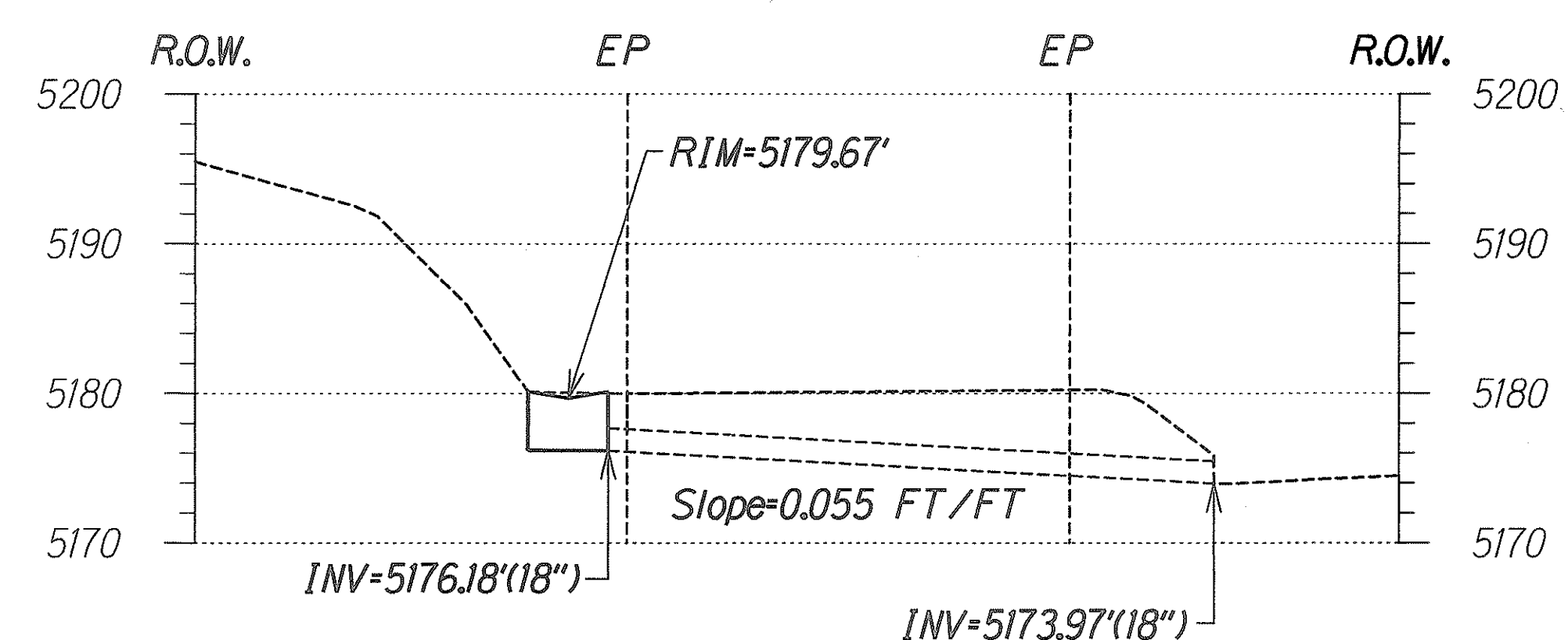
STA. 622+17.1 to STA. 623+61.0
Install 137.5 L.F. of Strong Post
W-Beam Guardrail.
Approach End: Connect to New
Guardrail
Trailing End: Fleet-350
Place Face of Guardrail 2'
From Edge of Pavement.

STA. 623+61.0 to STA. 624+00.4
Install 37.5 L.F. of Strong Post
W-Beam Guardrail.
Approach End: Connect to New Guardrail
Trailing End: Connect to New Guardrail
Place Face of Guardrail 2'
From Edge of Pavement.
Use 8' Long Posts.

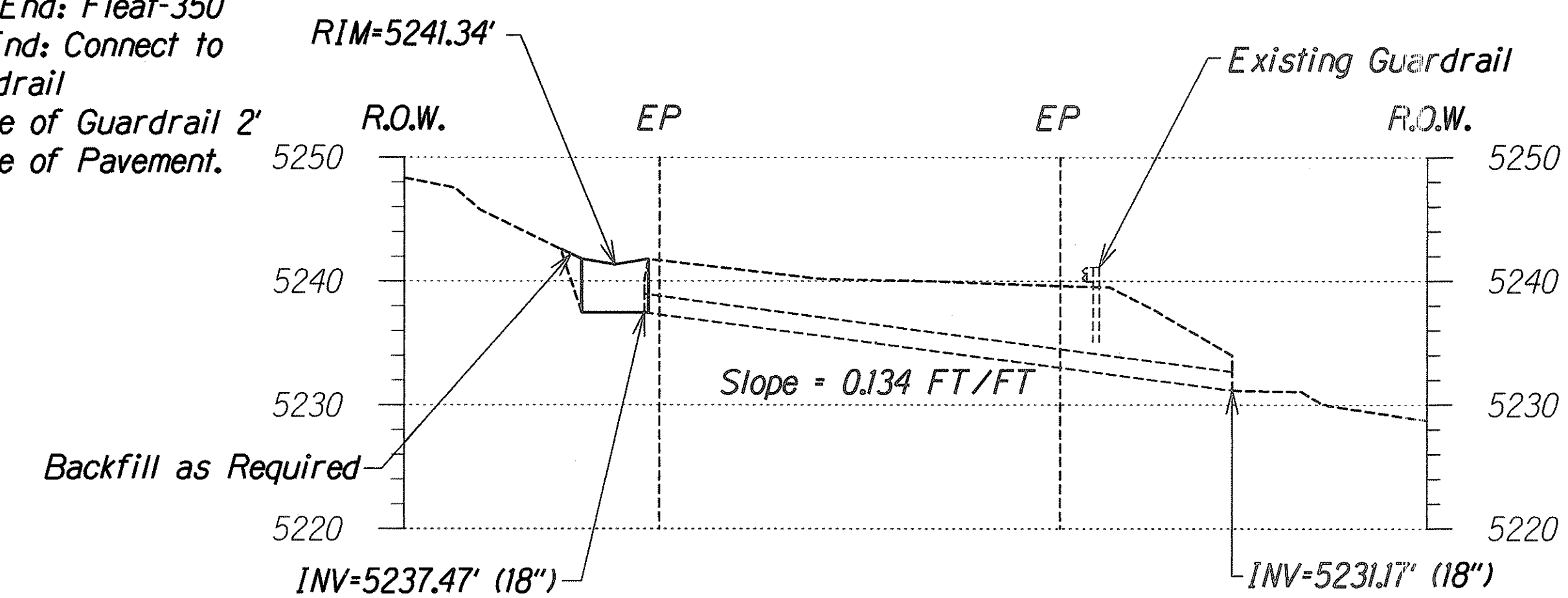
STA. 624+00.4 to STA. 626+16.7
Install 212.5 L.F. of Strong Post
W-Beam Guardrail.
Approach End: Fleet-350
Trailing End: Connect to
New Guardrail
Place Face of Guardrail 2'
From Edge of Pavement.

STA. 628+94 to STA. 631+52
Provide 2' wide Bituminous Gutter.
Match Back of Gutter Elevation
to Existing Ground.
(See Sheet 17)

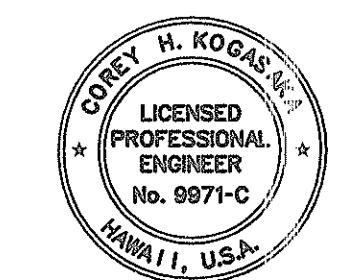
Replace All Reflector Markers
Removed During Construction
of Bituminous Gutter.



Profile AA-AA
Scale: 1"=10'-0"



Profile CC-CC
Scale: 1"=10'-0"



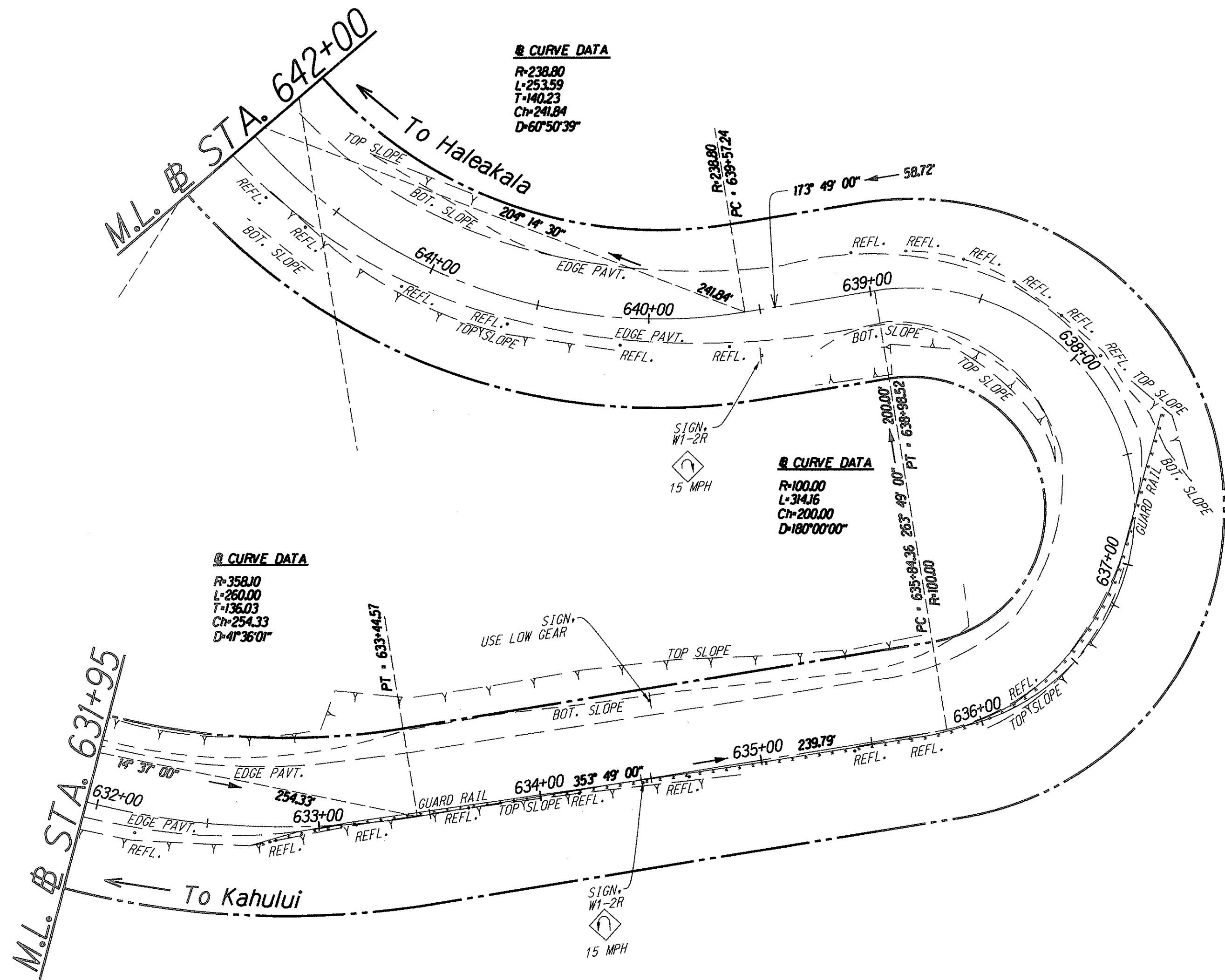
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PROJECT WILL BE UNDER MY OBSERVATION.
DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**ROADWAY PLAN &
CULVERT SECTIONS**
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 24 OF 47 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
IN.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	43	73

TRUE NORTH
SCALE : 1" = 40'

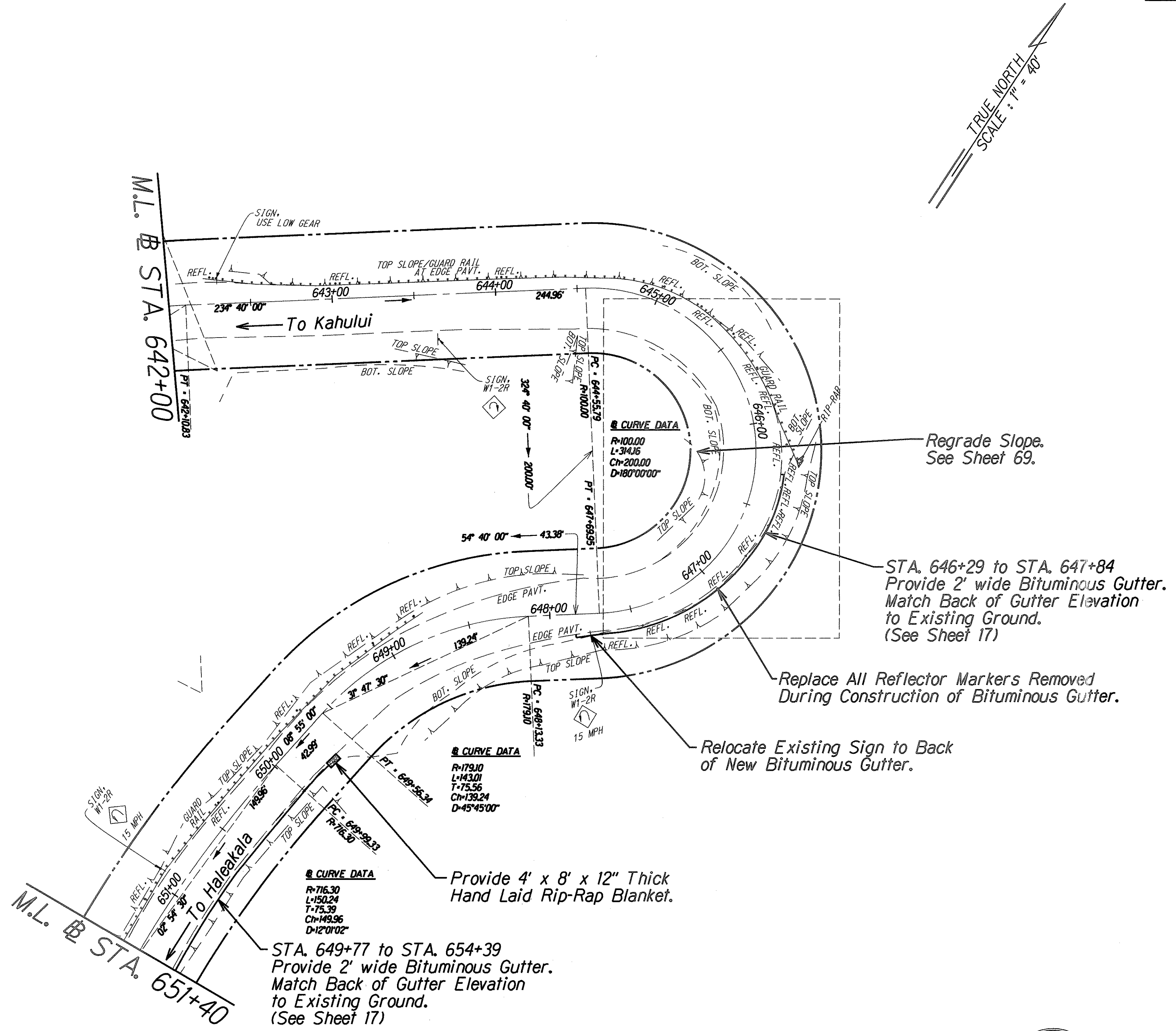


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DATE: 5/3/01

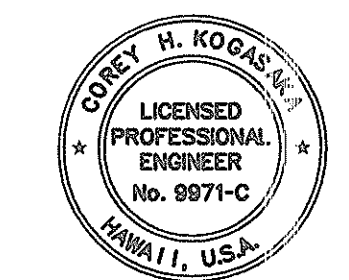
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN #
CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 25 OF 47 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	44	73



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



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Corey H. Koores

DATE: 5/3/01

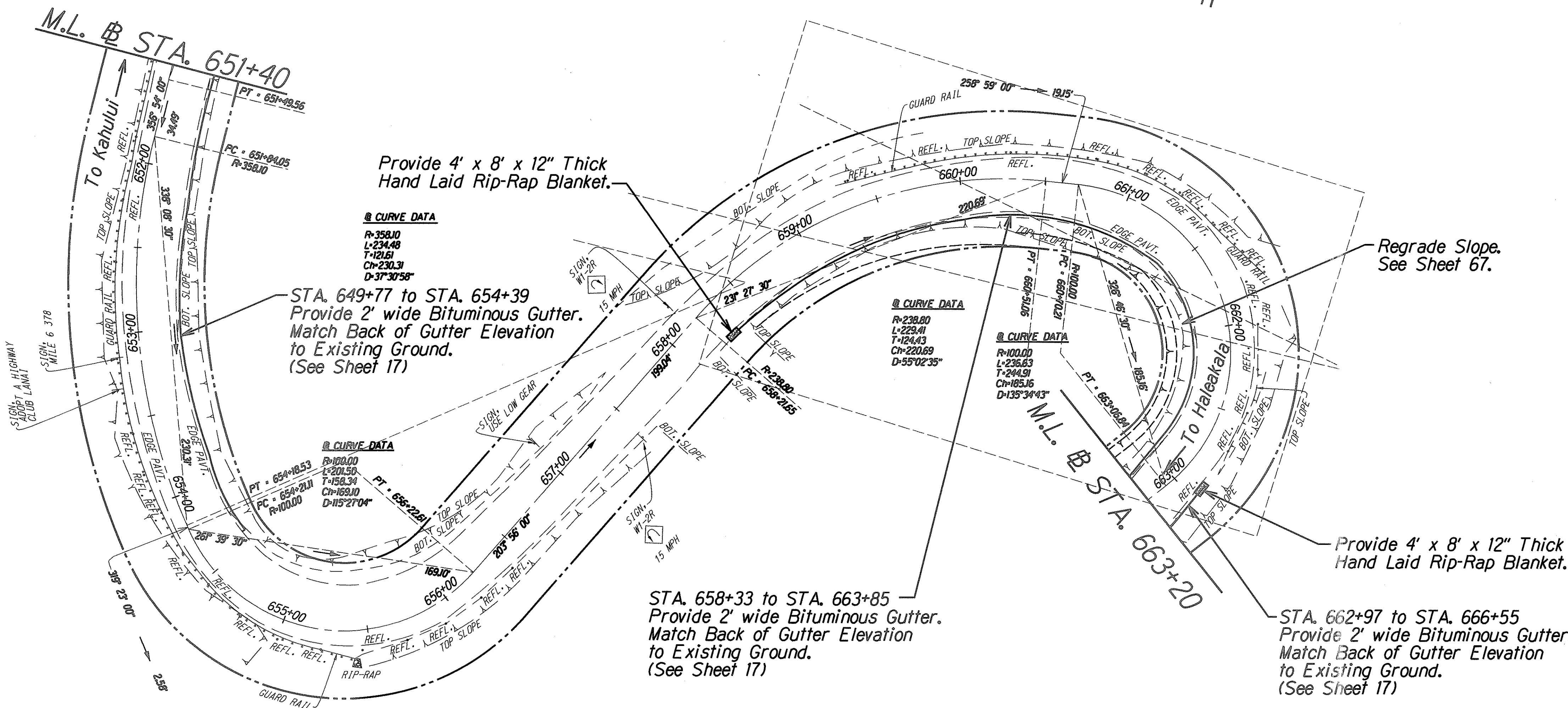
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN #
CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

SHEET No. 26 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	45	73

TRUE NORTH
SCALE: 1" = 40'



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

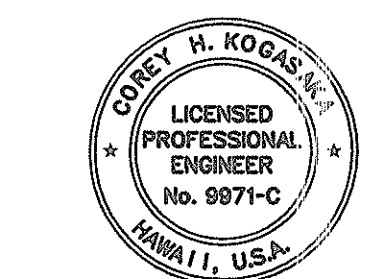
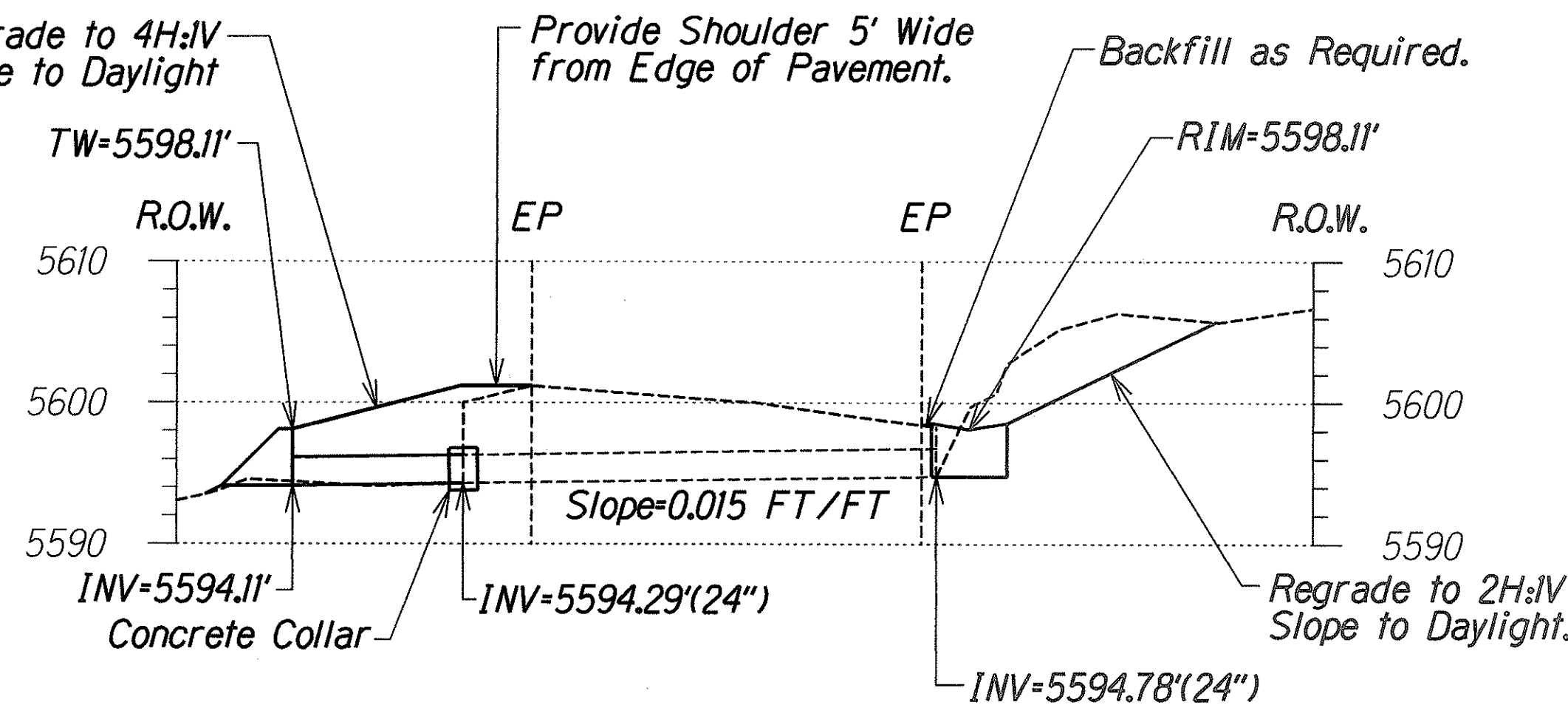
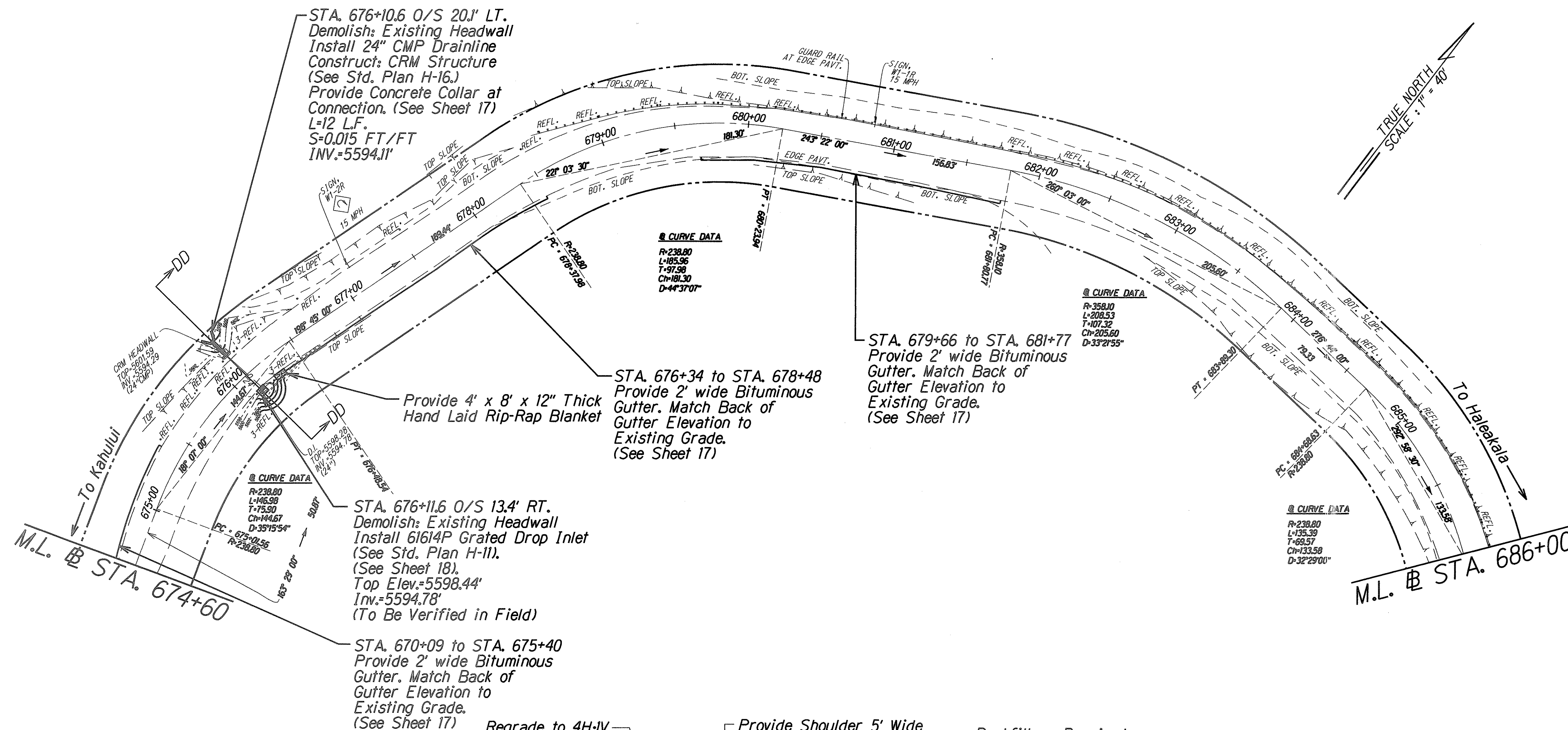


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DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN & CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 27 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	47	73



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Corey H. Kobas
DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**

**HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE**

PROJECT NO. 378A-01-00MR

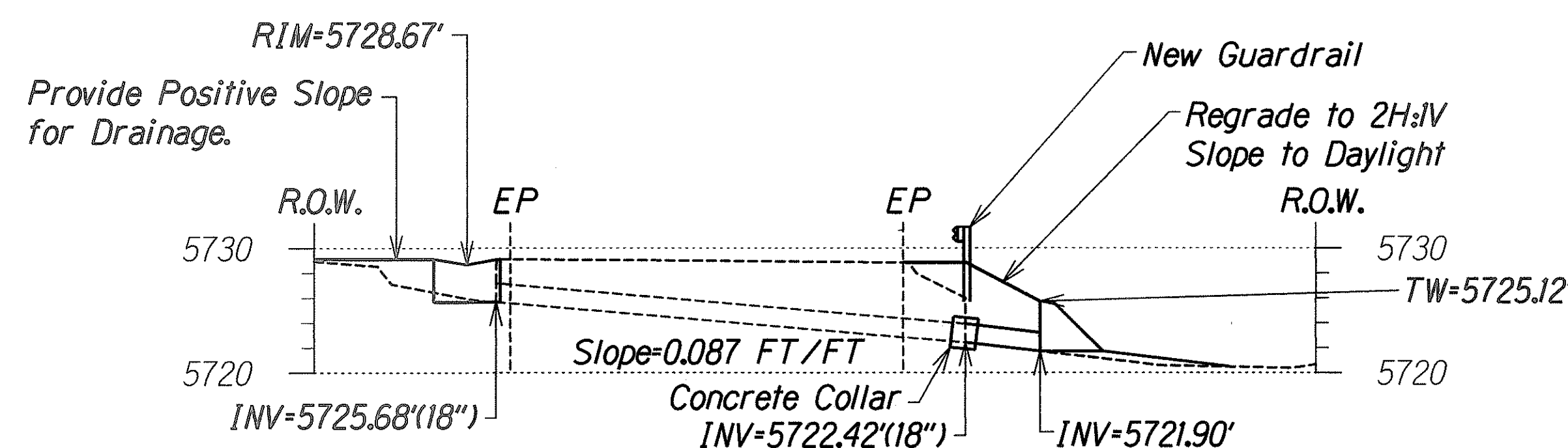
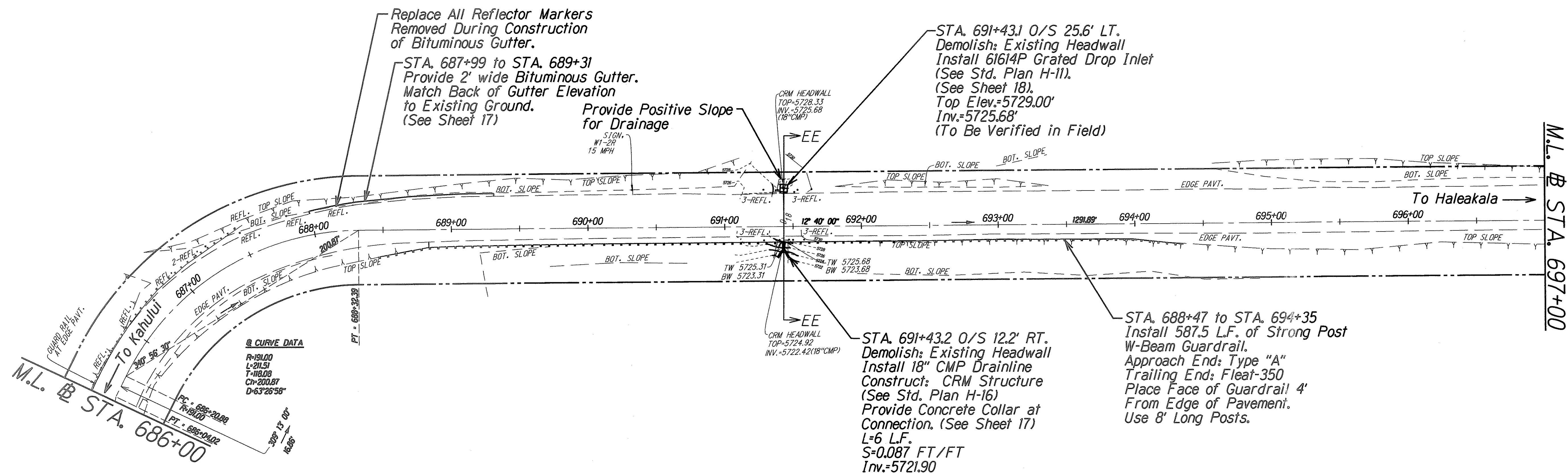
Scale: 1"=40' Date: January, 2001

SHEET No. 29 OF 47 SHEETS

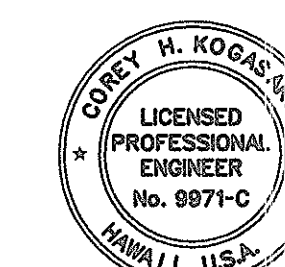
SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO. 1	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	48	73

TRUE NORTH
SCALE: 1" = 40'



Profile EE-EE
Scale: 1"=10'-0"

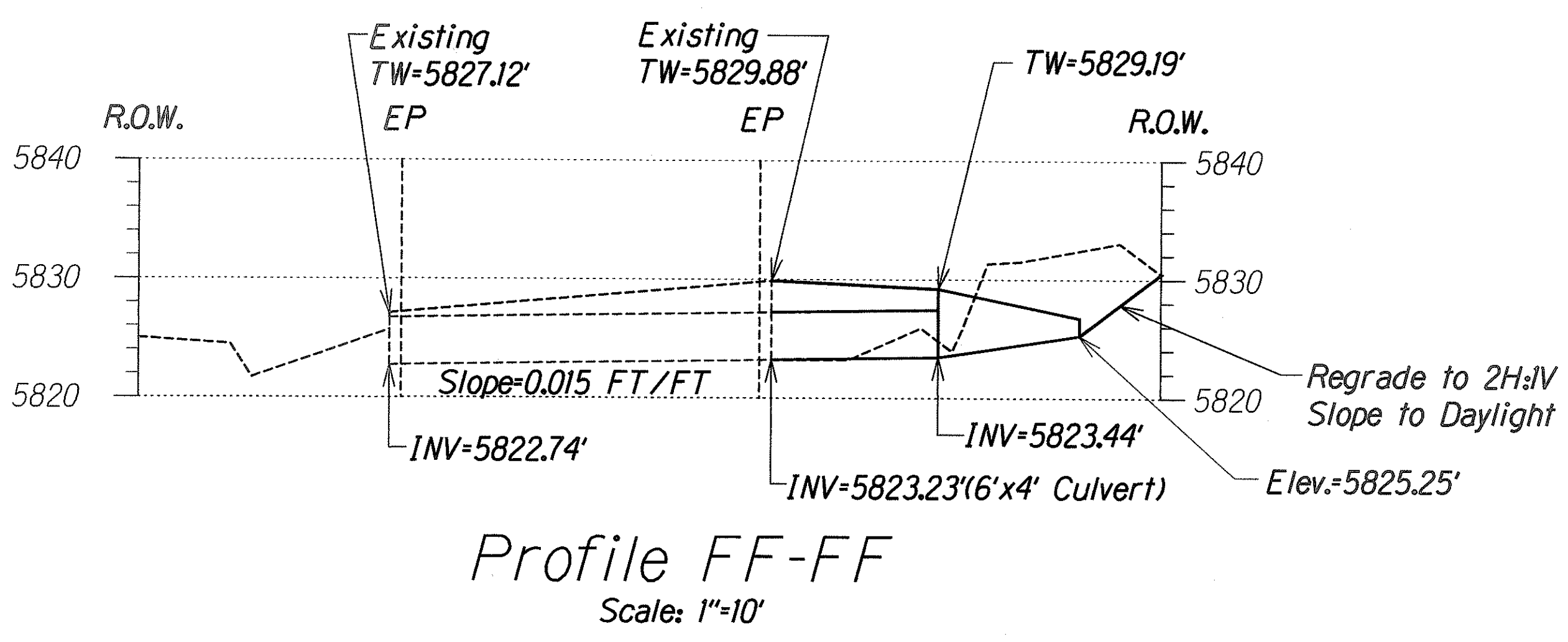
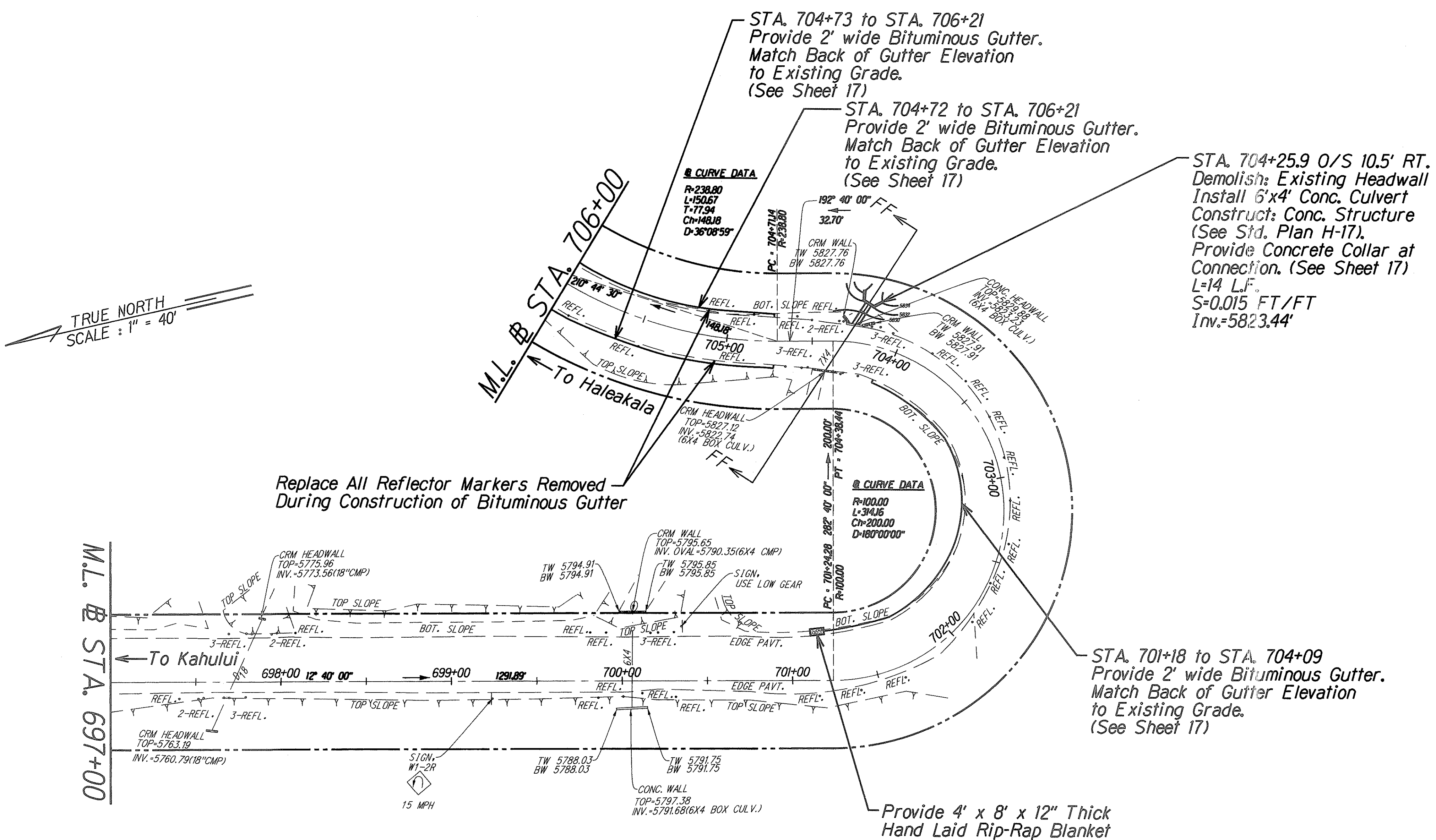


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DATE: 5/3/01

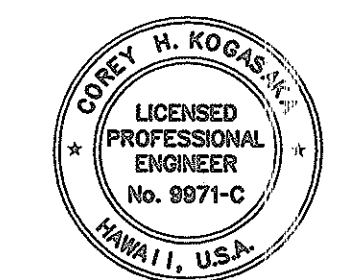
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**ROADWAY PLAN &
CULVERT SECTIONS**
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

SHEET No. 30 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	49	73



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
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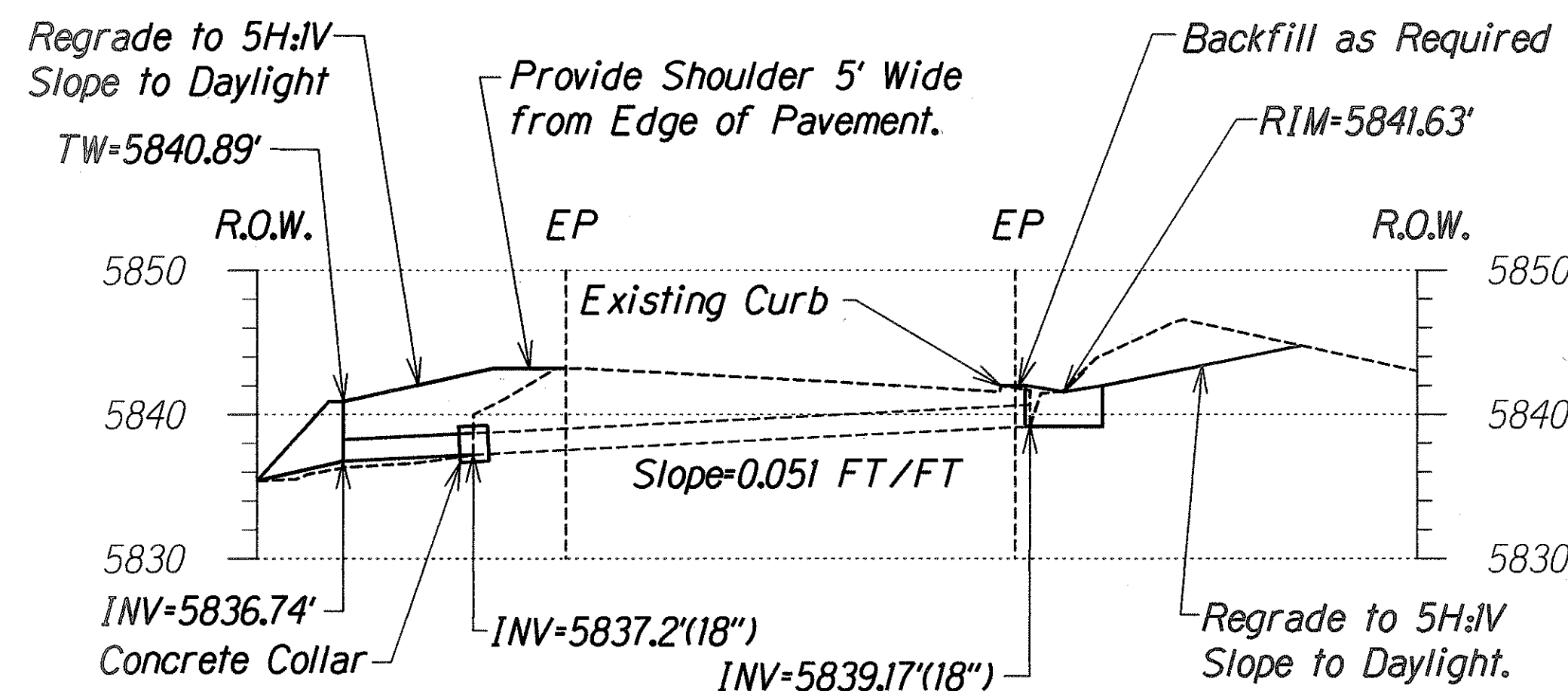
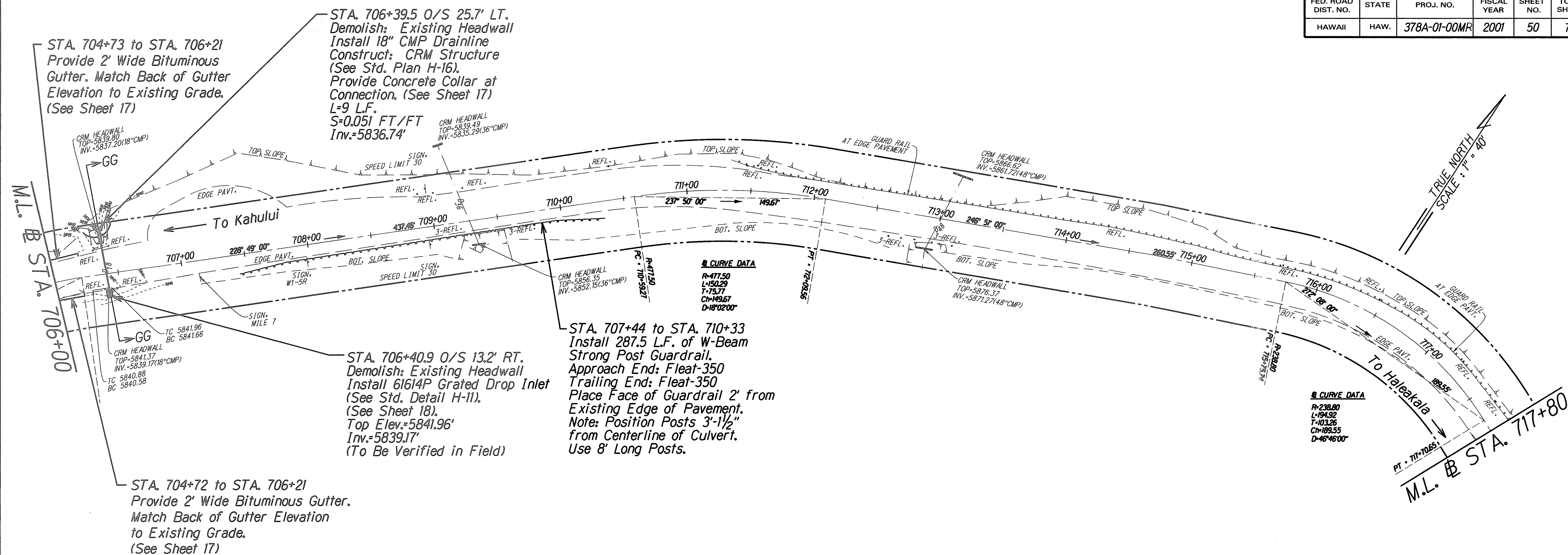


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Corey H. Kostas
 DATE: 5/3/01

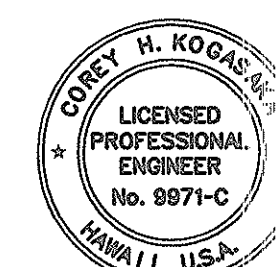
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN & CULVERT SECTIONS
 HALEAKALA CRATER ROAD
 REPAIRS AND MAINTENANCE
 PROJECT NO. 378A-01-00MR
 Scale: 1"=40' Date: January, 2001
 SHEET No. 31 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	50	73



Profile GG-GG
Scale: 1"=10'-0"



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DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

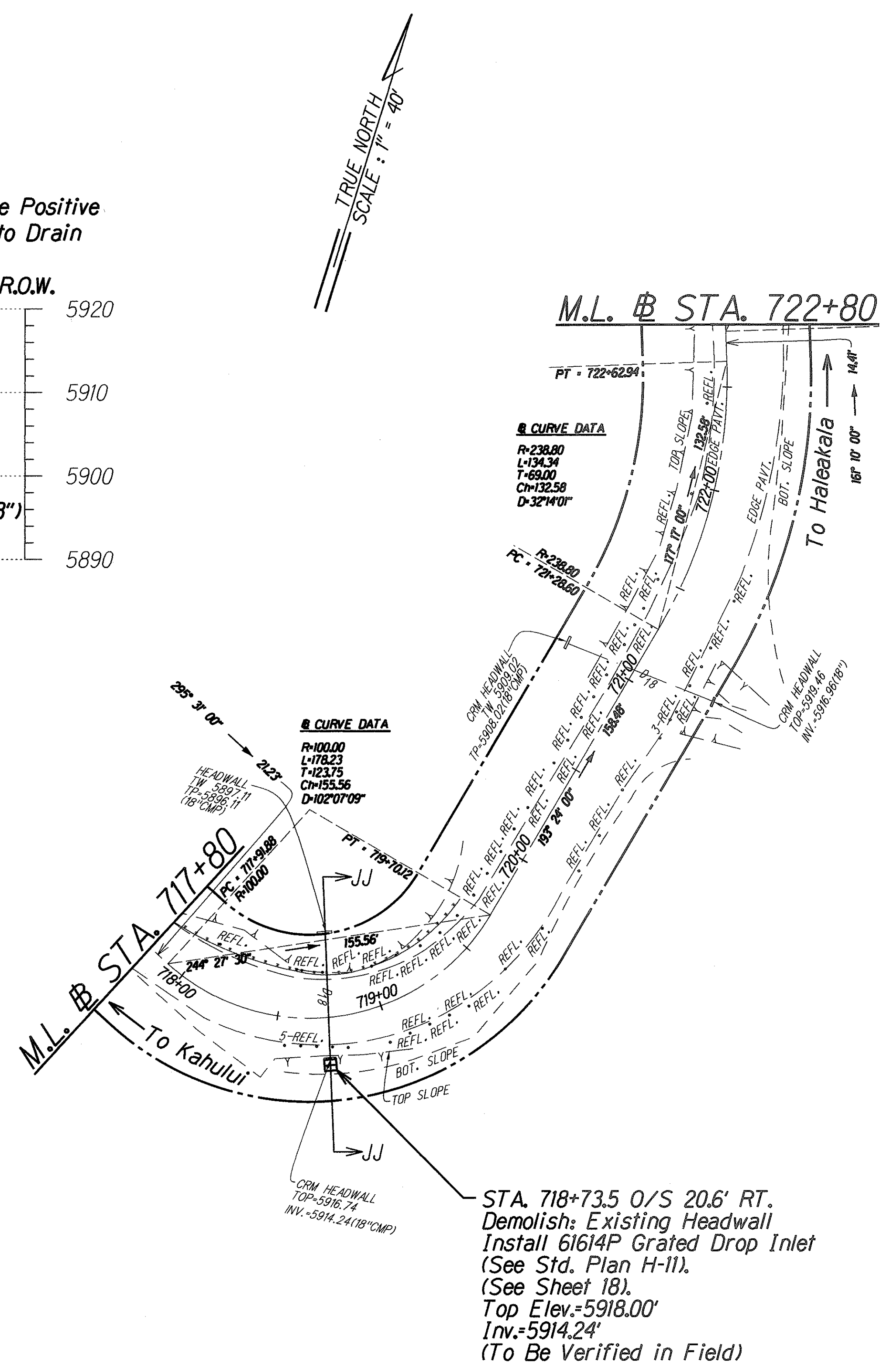
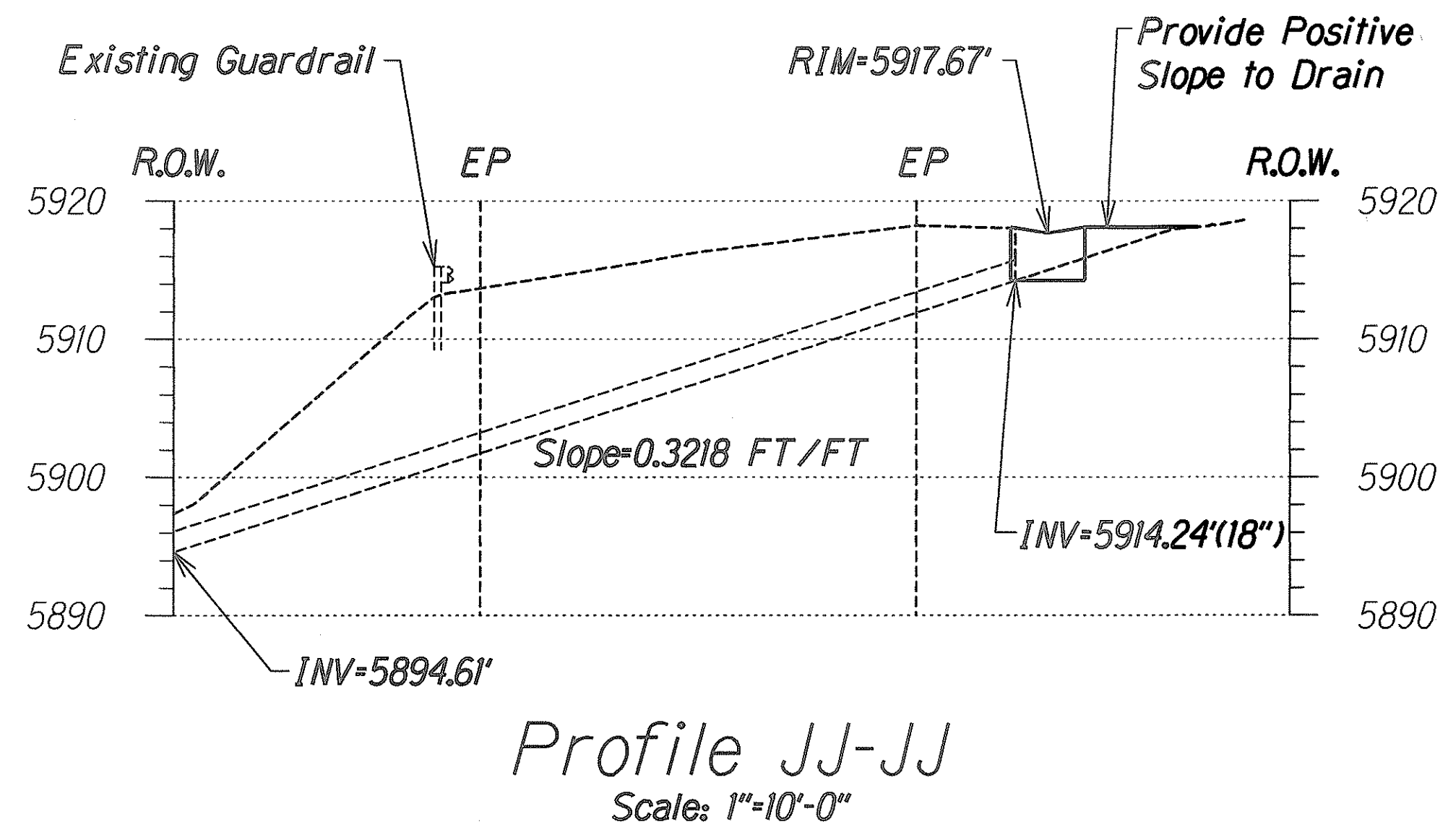
**ROADWAY PLAN &
CULVERT SECTIONS**

HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR

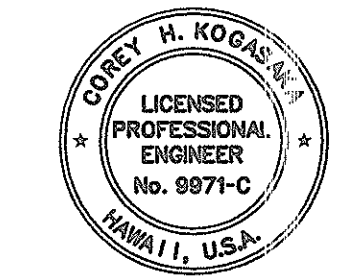
Scale: 1"=40' Date: January, 2001

SHEET No. 32 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	51	73



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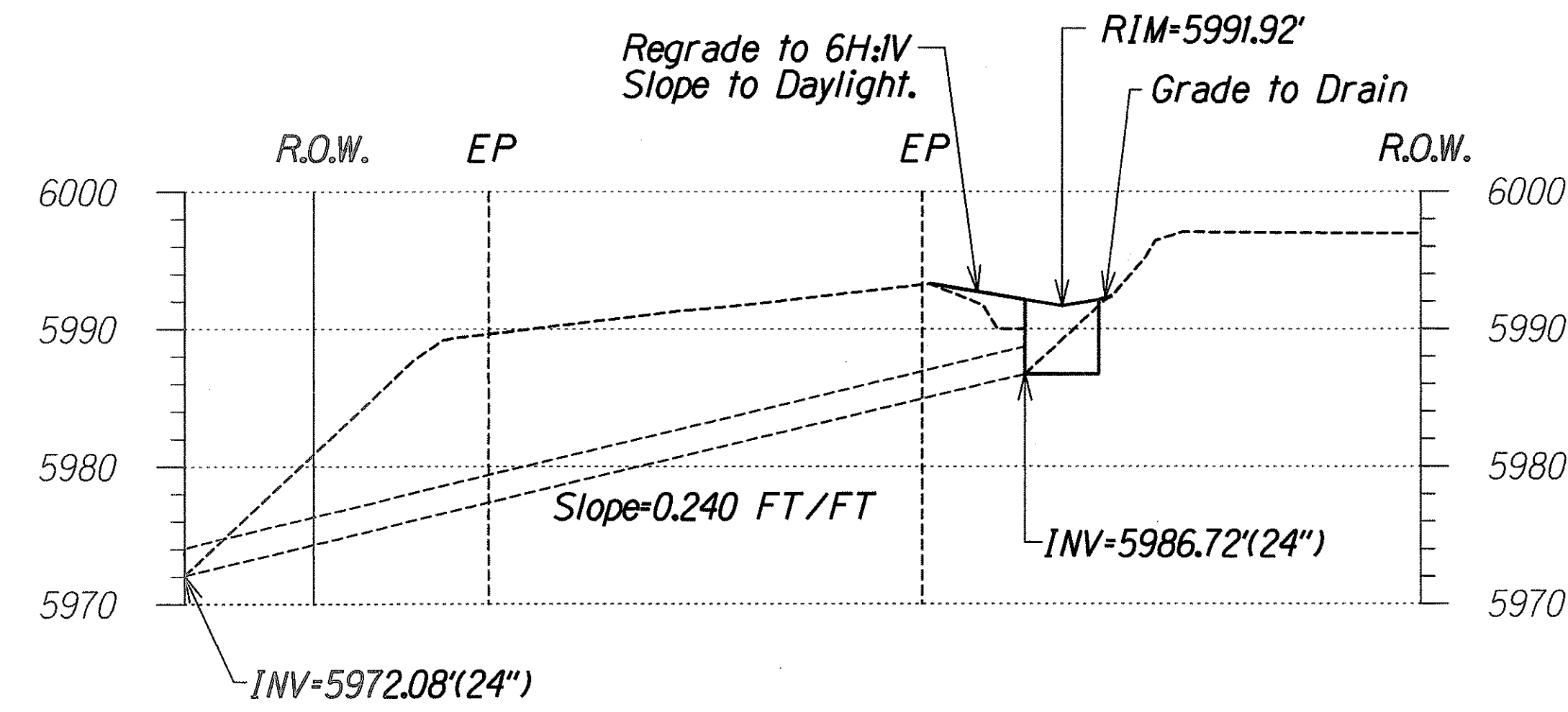
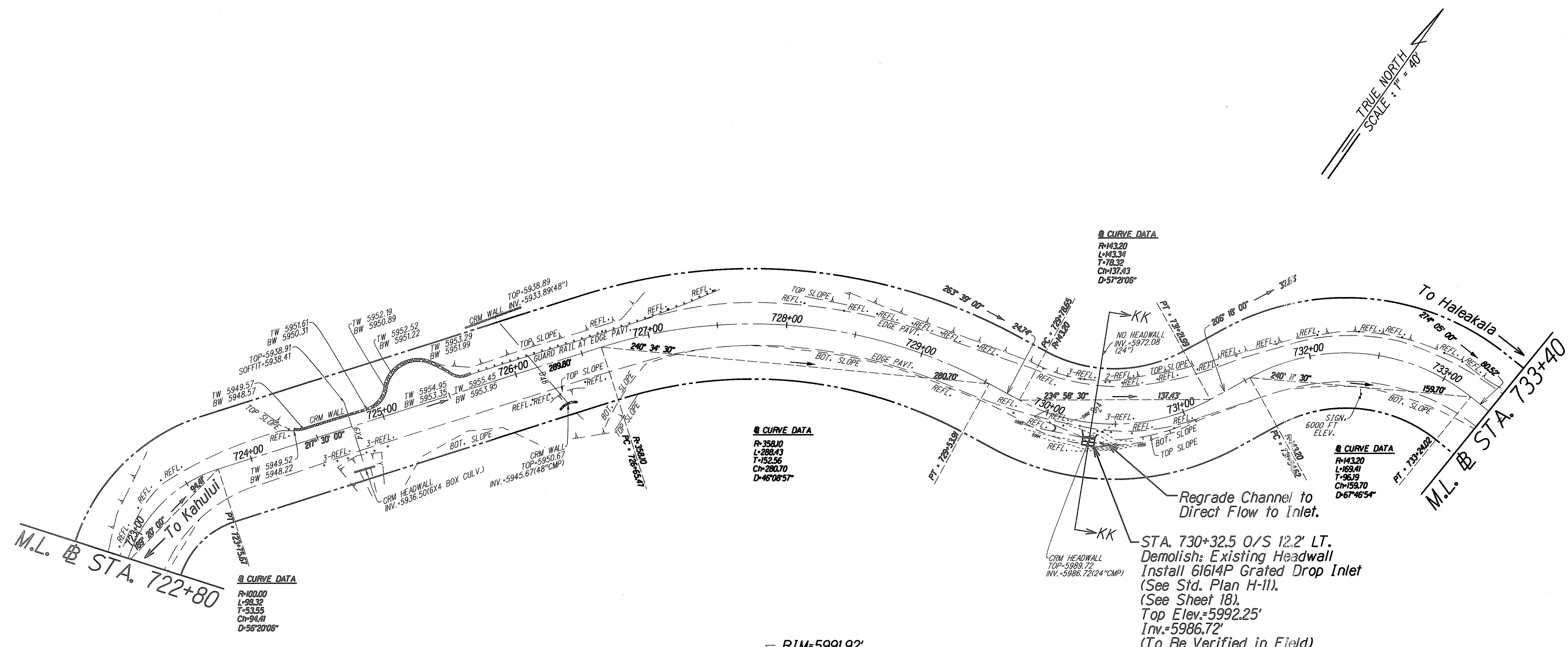
Corey H. Kogal
DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

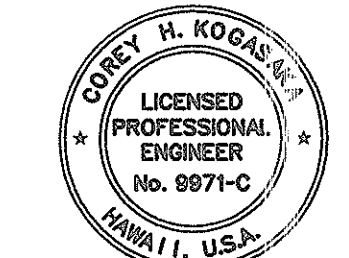
**ROADWAY PLAN &
CULVERT SECTIONS**
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

SHEET No. 33 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	52	73



Profile KK-KK
Scale: 1"=10'-0"



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STATE OF HAWAII
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HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**

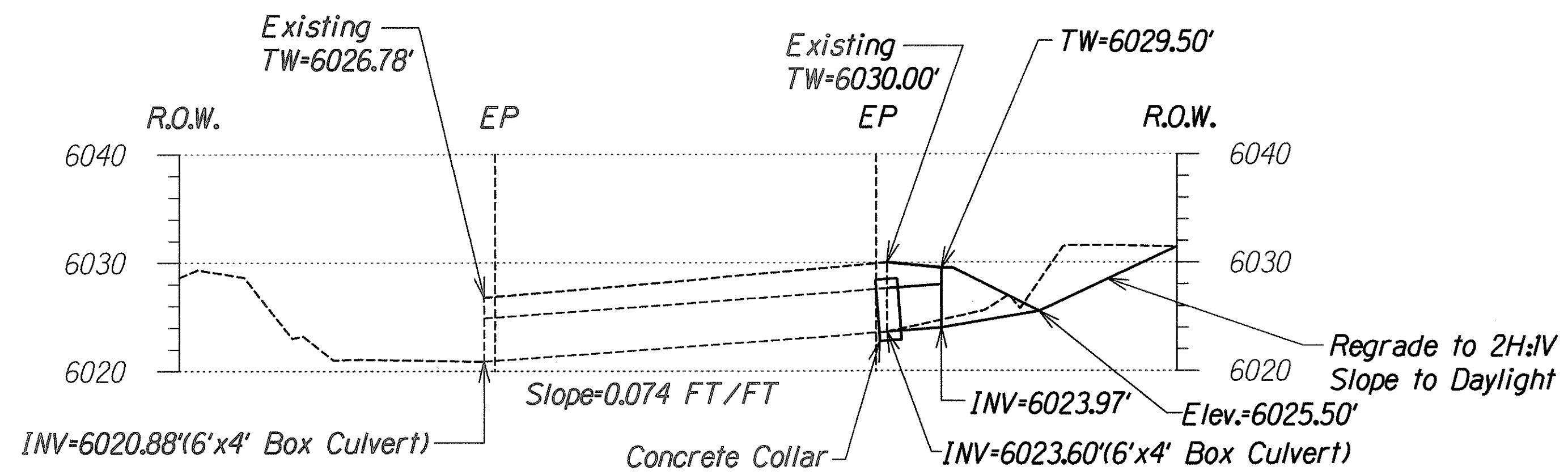
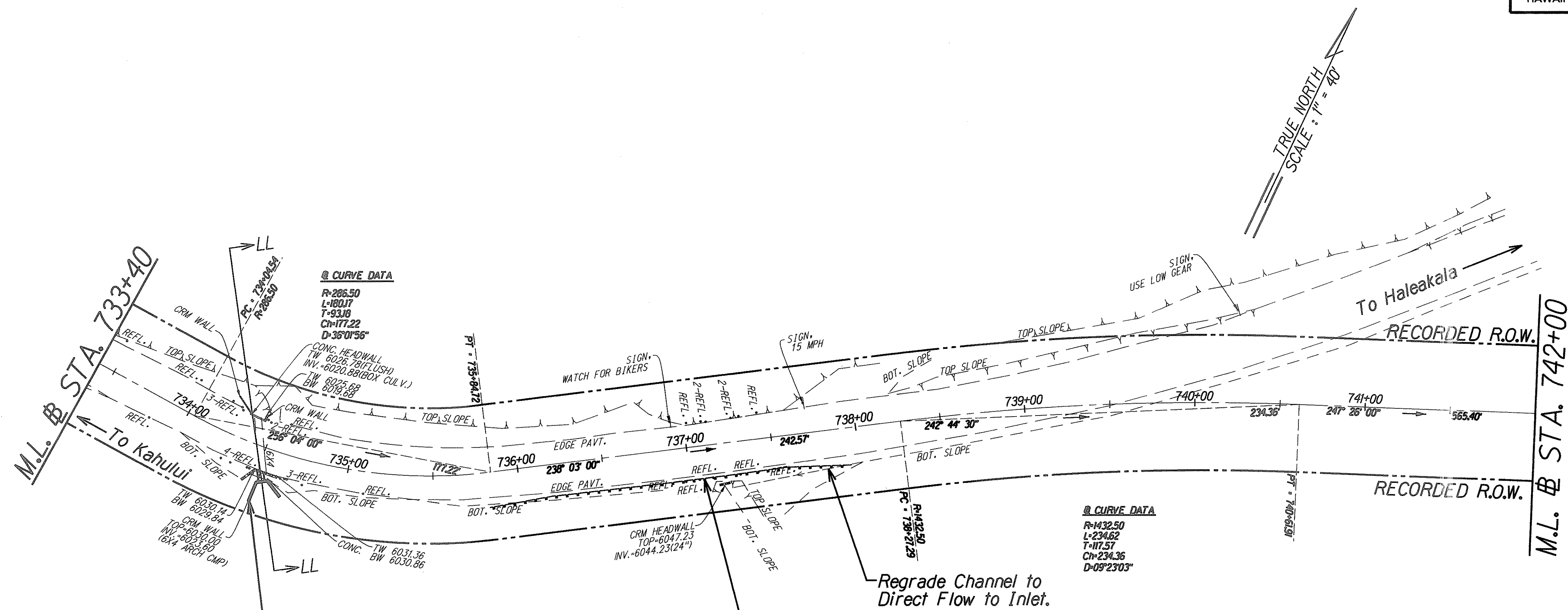
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE

PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

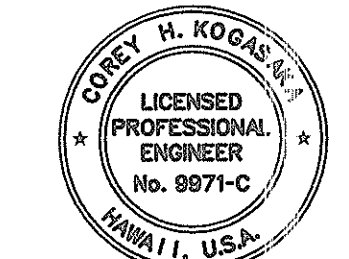
SHEET No. 34 OF 47 SHEETS

SURVEY PLOTTED BY	DATE
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TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	53	73



SURVEY PLOTTED BY	DATE
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APPROVED BY	



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Corey H. Kogal

DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**

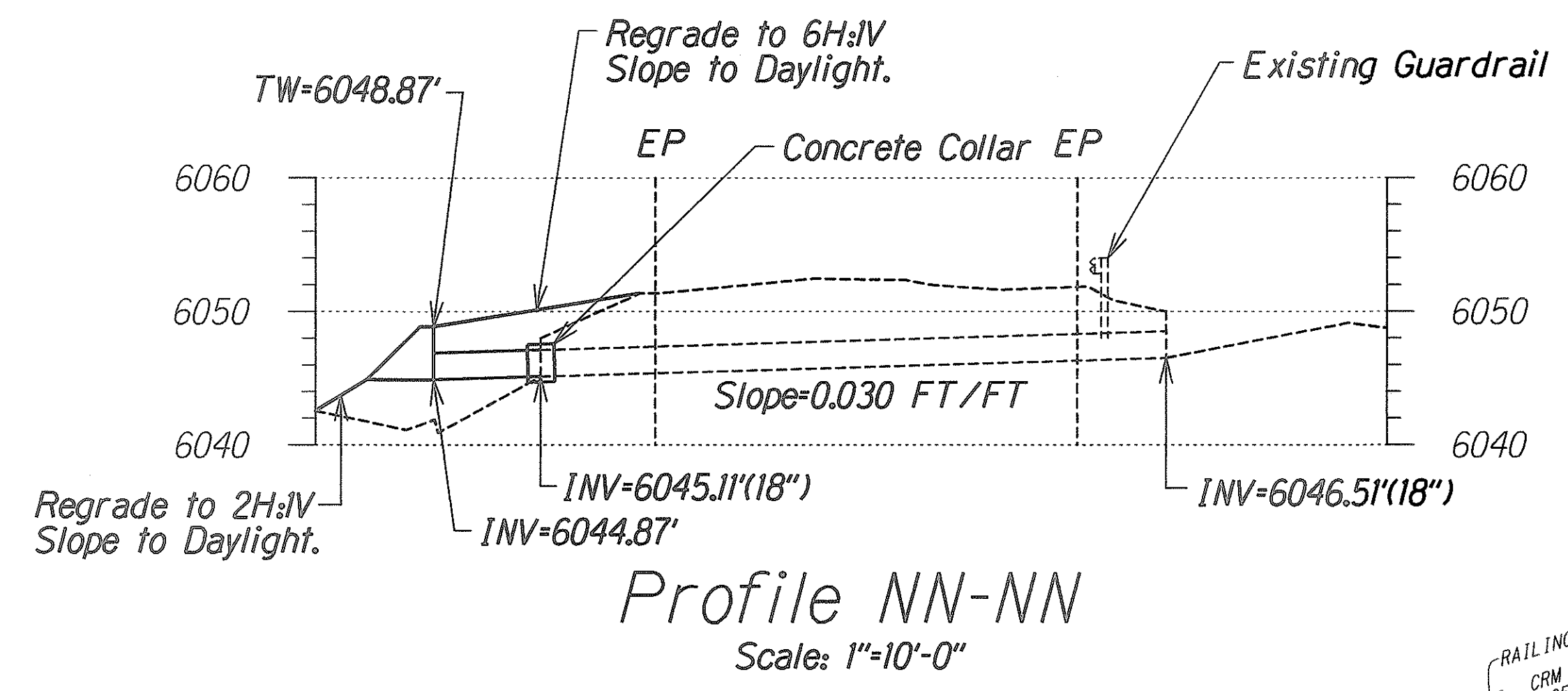
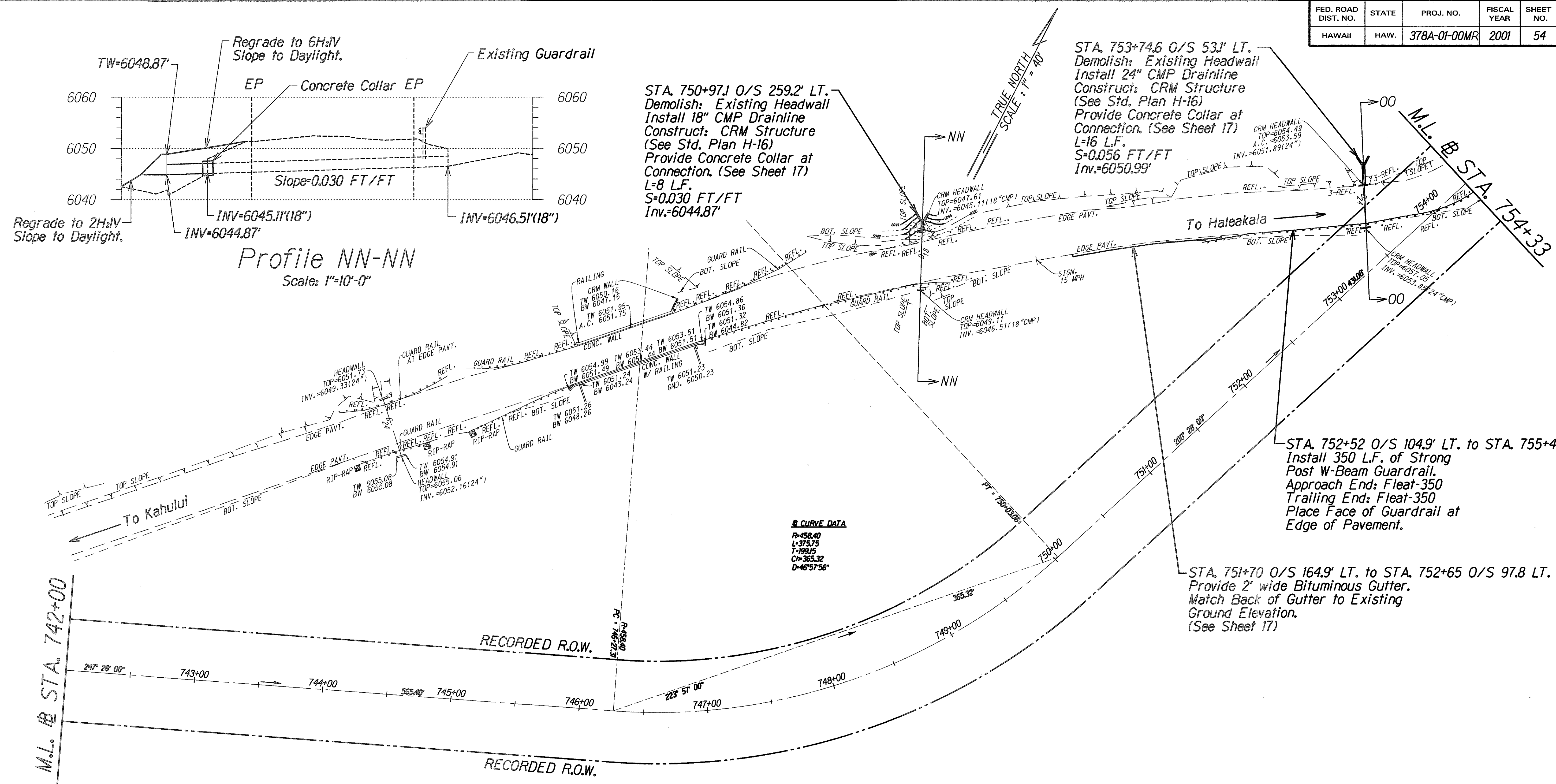
**HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE**

PROJECT NO. 378A-01-00MR

Scale: 1"=40' Date: January, 2001

SHEET No. 35 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	54	73



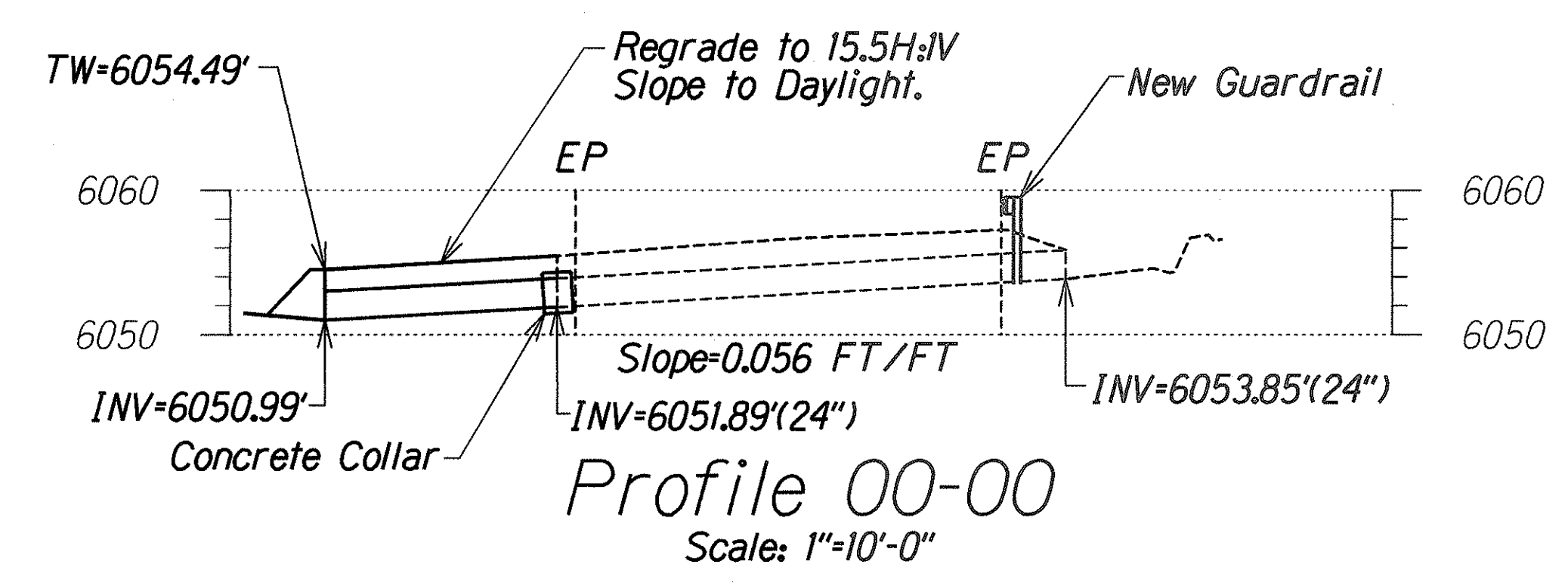
STA. 750+97.1 O/S 259.2' LT.
Demolish: Existing Headwall
Install 18" CMP Drainline
Construct: CRM Structure
(See Std. Plan H-16)
Provide Concrete Collar at
Connection. (See Sheet 17)
L=8 L.F.
S=0.030 FT/FT
Inv.=6044.87'

STA. 753+74.6 O/S 53.1' LT.
Demolish: Existing Headwall
Install 24" CMP Drainline
Construct: CRM Structure
(See Std. Plan H-16)
Provide Concrete Collar at
Connection. (See Sheet 17)
L=16 L.F.
S=0.056 FT/FT
Inv.=6050.99'

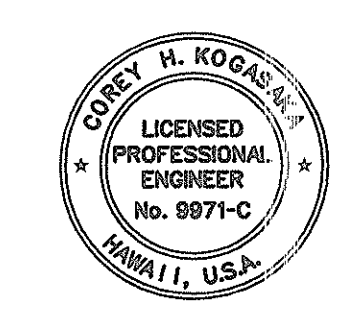
STA. 752+52 O/S 104.9' LT. to STA. 755+45
Install 350 L.F. of Strong
Post W-Beam Guardrail.
Approach End: Fleet-350
Trailing End: Fleet-350
Place Face of Guardrail at
Edge of Pavement.

STA. 751+70 O/S 164.9' LT. to STA. 752+65 O/S 97.8 LT.
Provide 2' wide Bituminous Gutter.
Match Back of Gutter to Existing
Ground Elevation.
(See Sheet 17)

8 CURVE DATA
R=458.40
L=375.75
T=195.05
Ch=355.32
D=46°57'56"



SURVEY PLOTTED BY	DATE
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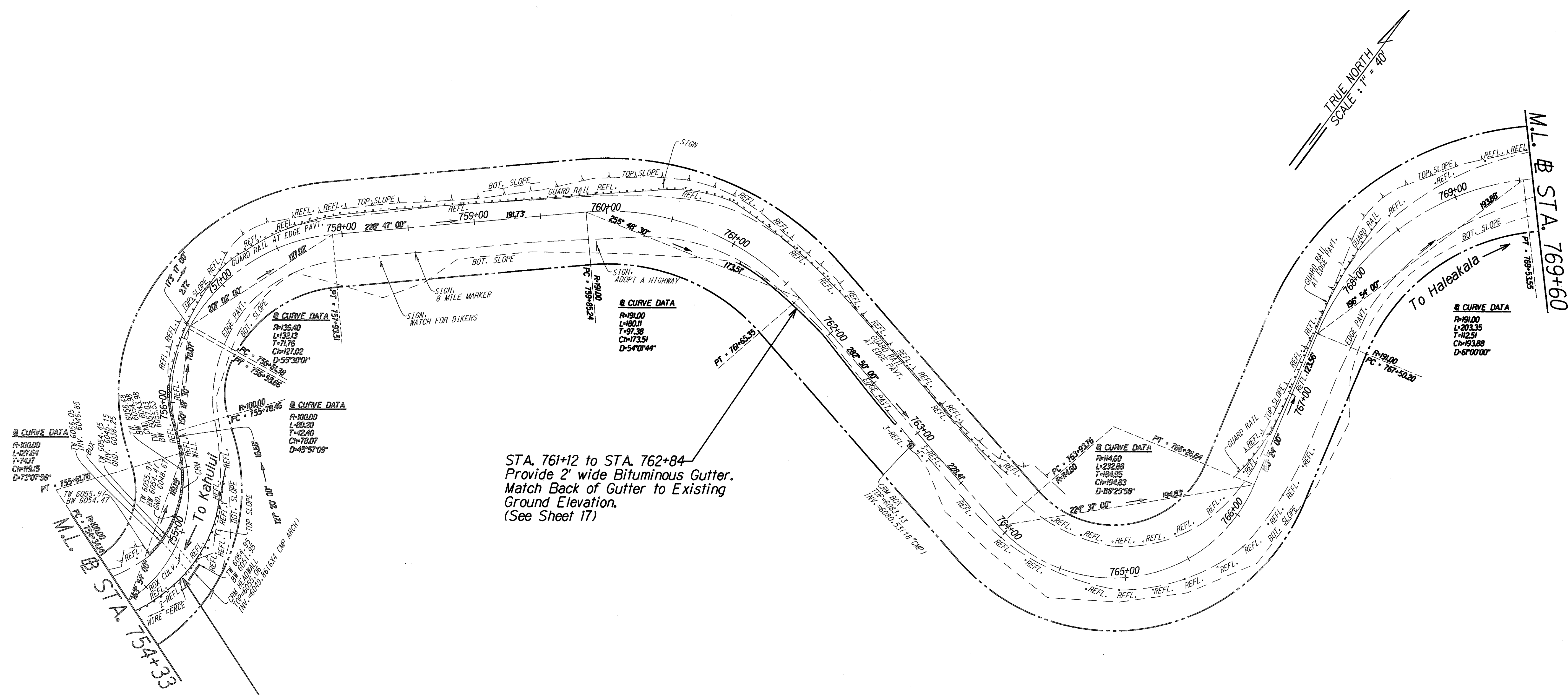
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.
DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN #
CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

SHEET No. 36 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	55	73



STA. 761+12 to STA. 762+84
Provide 2' wide Bituminous Gutter.
Match Back of Gutter to Existing
Ground Elevation.
(See Sheet 17)

STA. 752+52 O/S 104.9' LT. to STA. 755+45
Install 350 L.F. of Strong
Post W-Beam Guardrail.
Approach End: Fleet-350
Trailing End: Fleet-350
Place Face of Guardrail at
Edge of Existing Pavement.

SURVEY PLATTED BY	DATE
DRAWN BY	
TRACED BY	
NOTES BOOK	
QUANTITIES BY	
CHECKED BY	
No.	



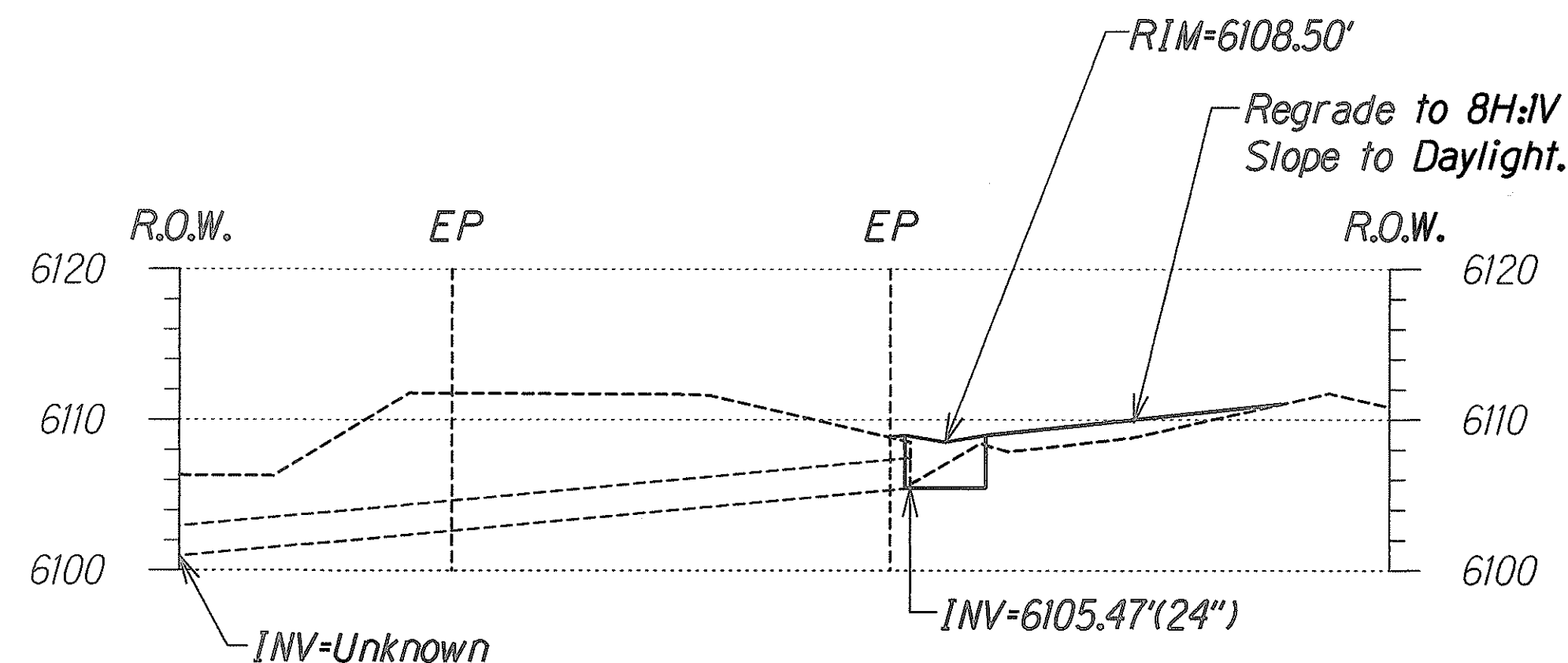
THIS WORK WAS PREPARED BY ME OR UNDER
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PROJECT WILL BE UNDER MY OBSERVATION.
Corey H. Kogas
DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

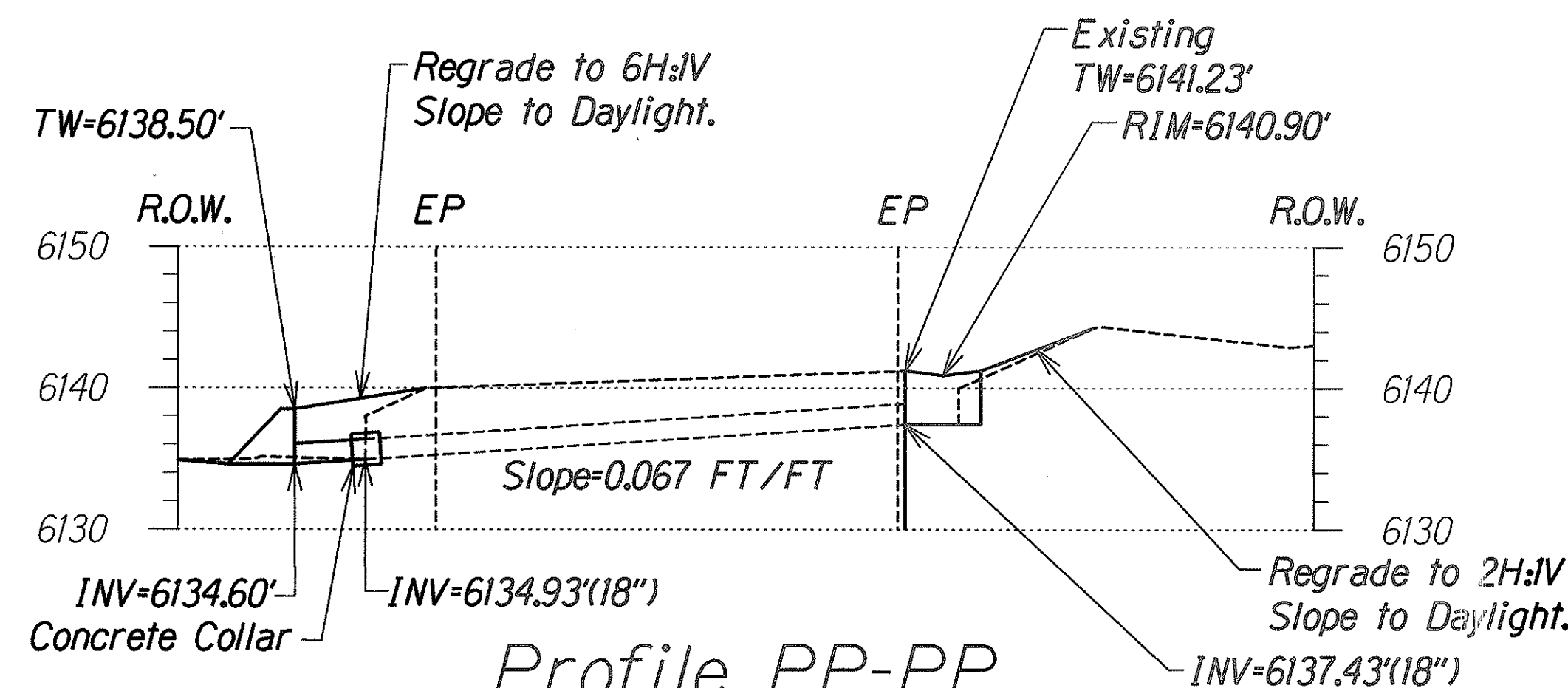
**ROADWAY PLAN &
CULVERT SECTIONS**
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

SHEET No. 37 OF 47 SHEETS

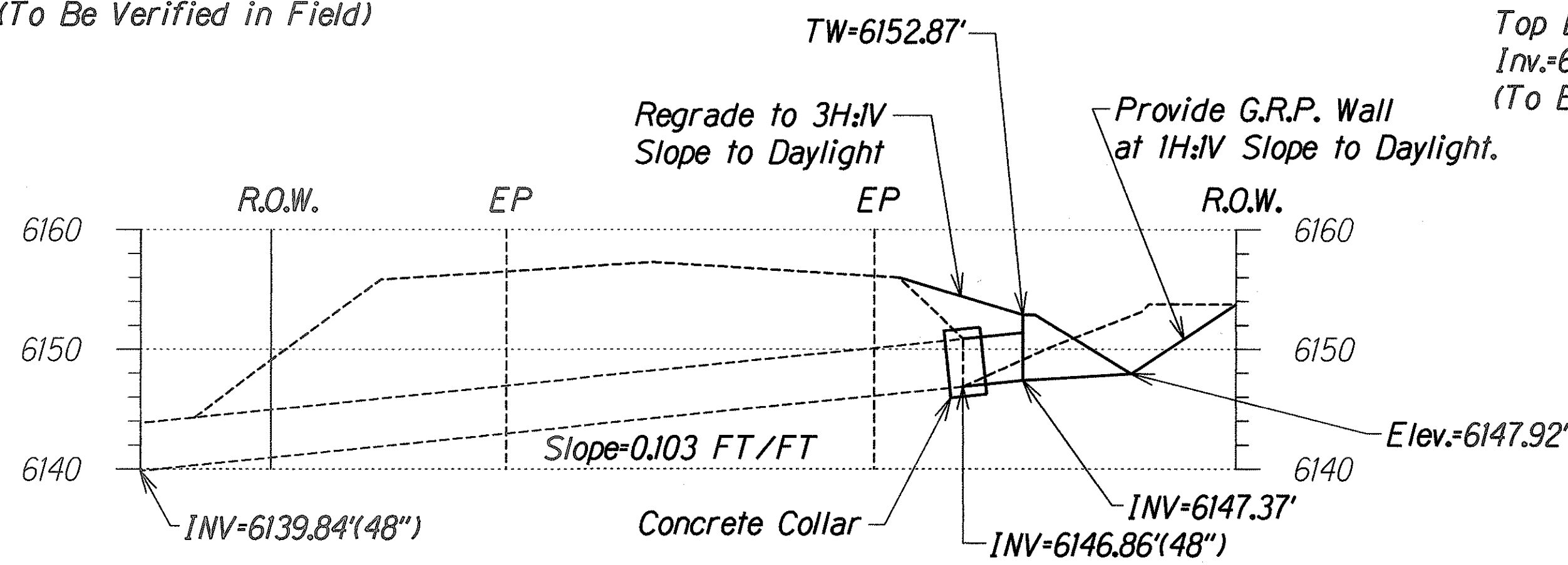
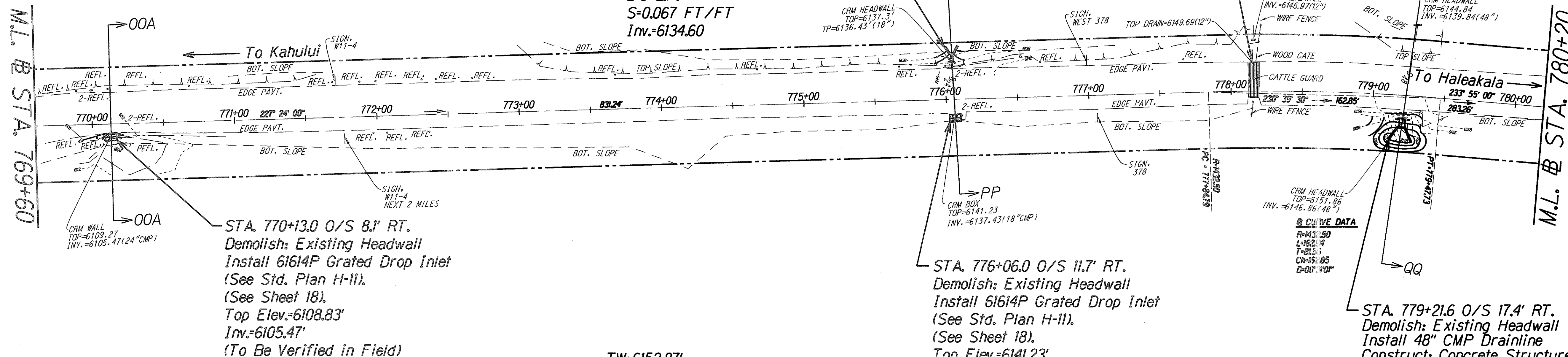
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	56	73



Profile 00A-00A
Scale: 1"=10'-0"

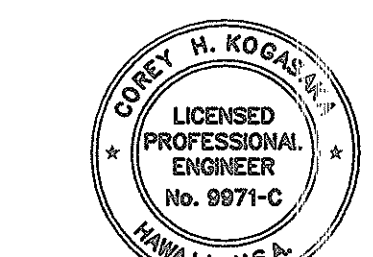


Profile PP-PP
Scale: 1"=10'-0"



Profile QQ-QQ
Scale: 1"=10'-0"

DATE	5/3/01
SURVEY PLOTTED BY	...
DESIGNED BY	...
CHECKED BY	...
ORIGINAL PLAN	...
NOTE BOOK	...
NO.	...



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DATE: 5/3/01

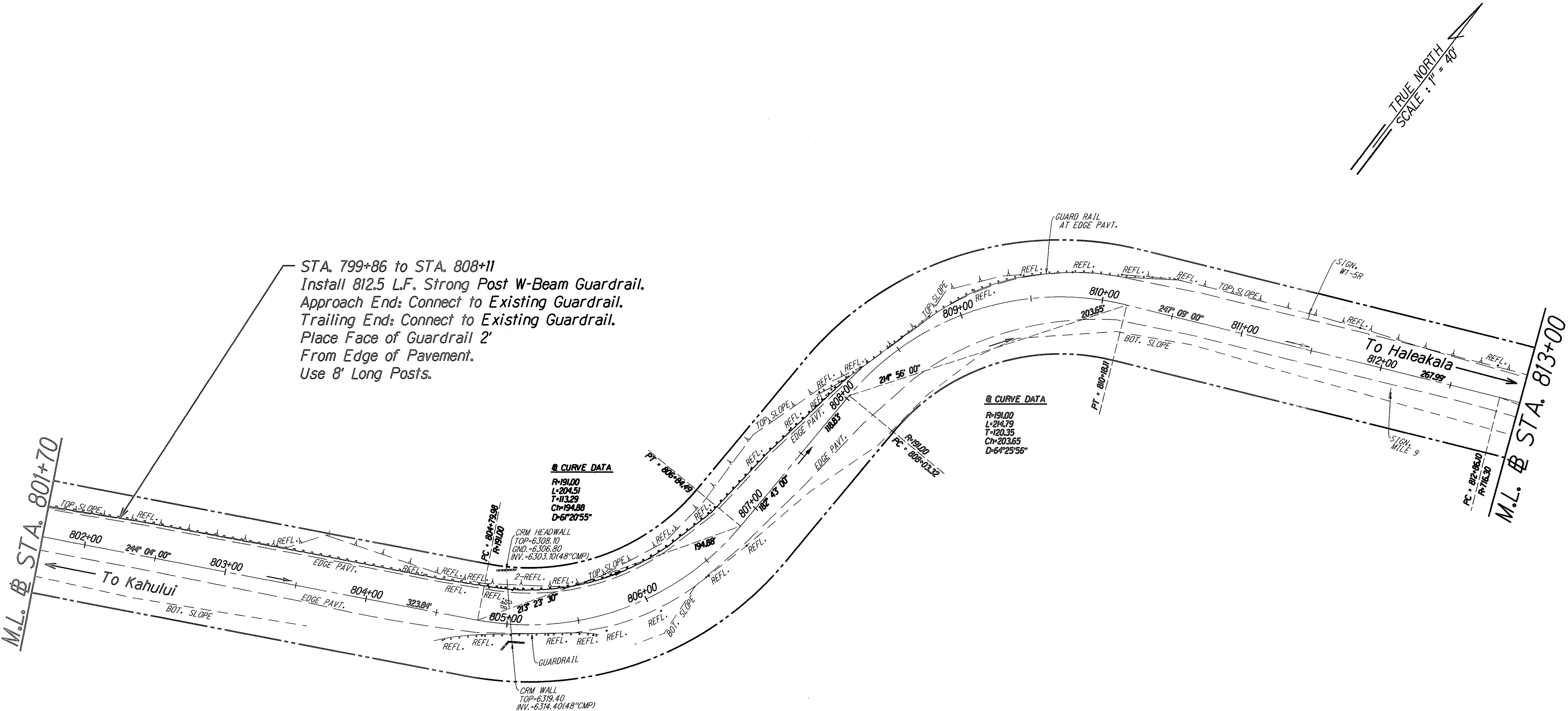
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN & CULVERT SECTIONS

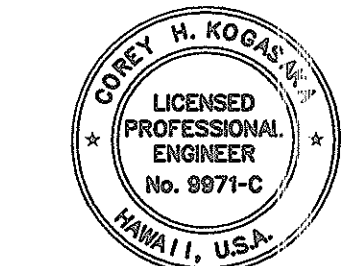
HALEAKALA CRATER ROAD REPAIRS AND MAINTENANCE

PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 38 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	59	73



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DRAWN BY		
DESIGNED BY		
CHECKED BY		
DATE		



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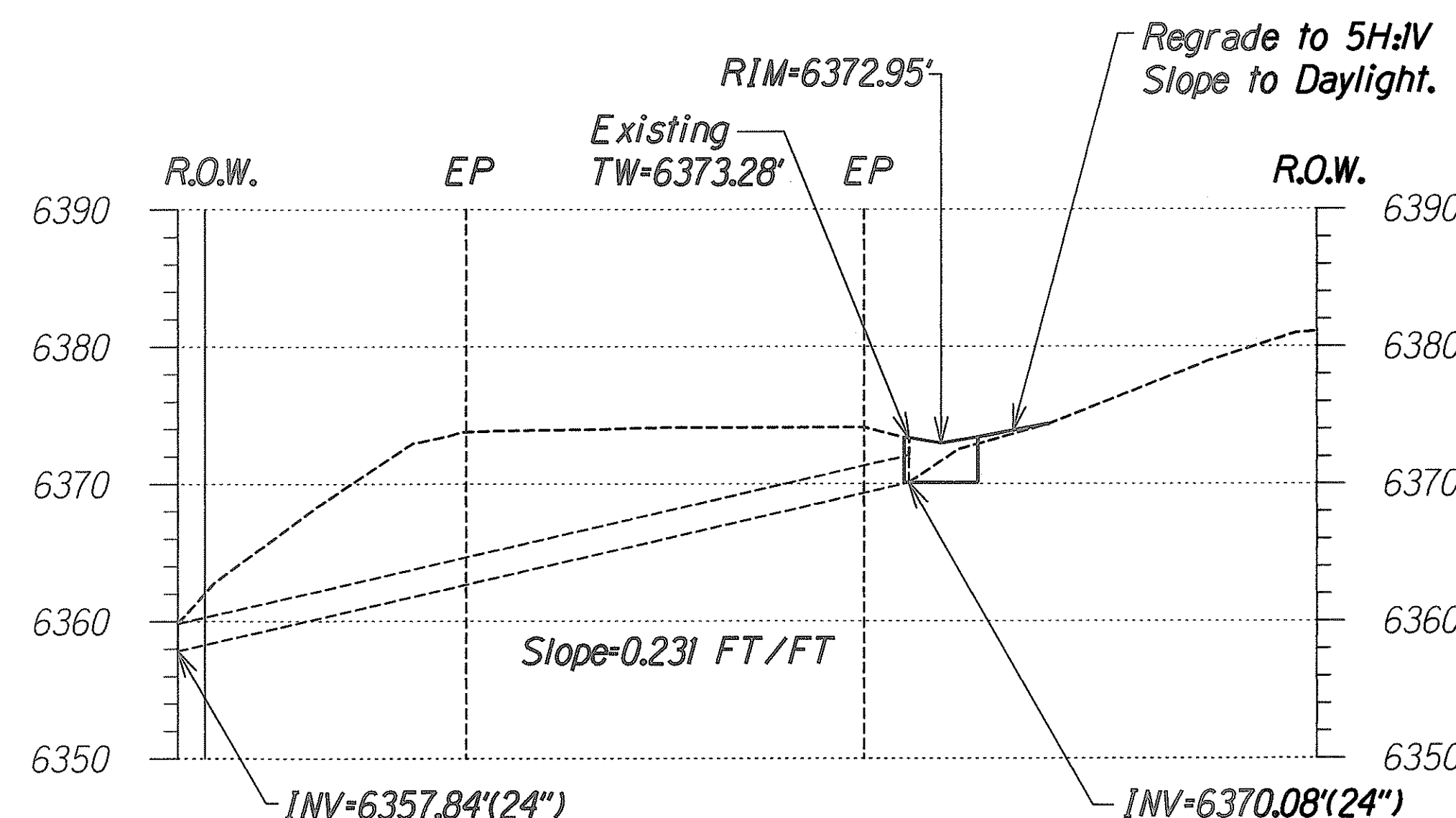
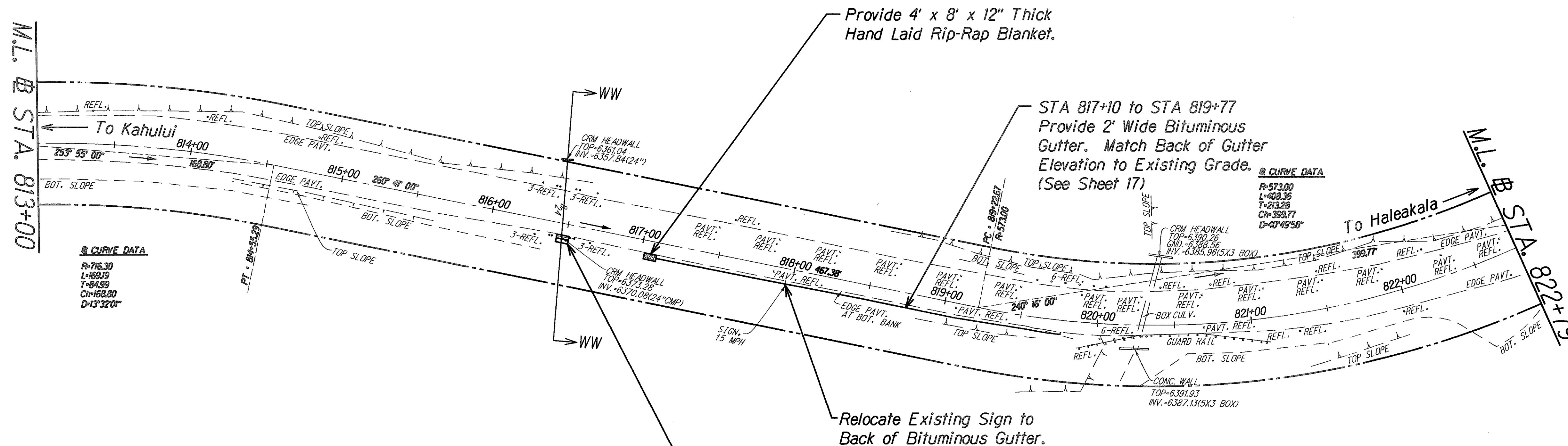
Corey H. Kobas

DATE: 5/3/01

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

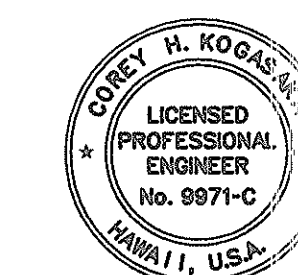
**ROADWAY PLAN &
 CULVERT SECTIONS**
 HALEAKALA CRATER ROAD
 REPAIRS AND MAINTENANCE
 PROJECT NO. 378A-01-00MR
 Scale: 1"=40' Date: January, 2001
 SHEET No. 41 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	60	73



Profile WW-WW
Scale: 1"=10'-0"

STA. 816+47.3 O/S 9.1' RT.
Demolish: Existing Headwall
Install 61614P Grated Drop Inlet
(See Std. Plan H-11).
Top Elev.=6373.28'
Inv.=6370.08'
(To Be Verified in Field)



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DATE: 5/3/01

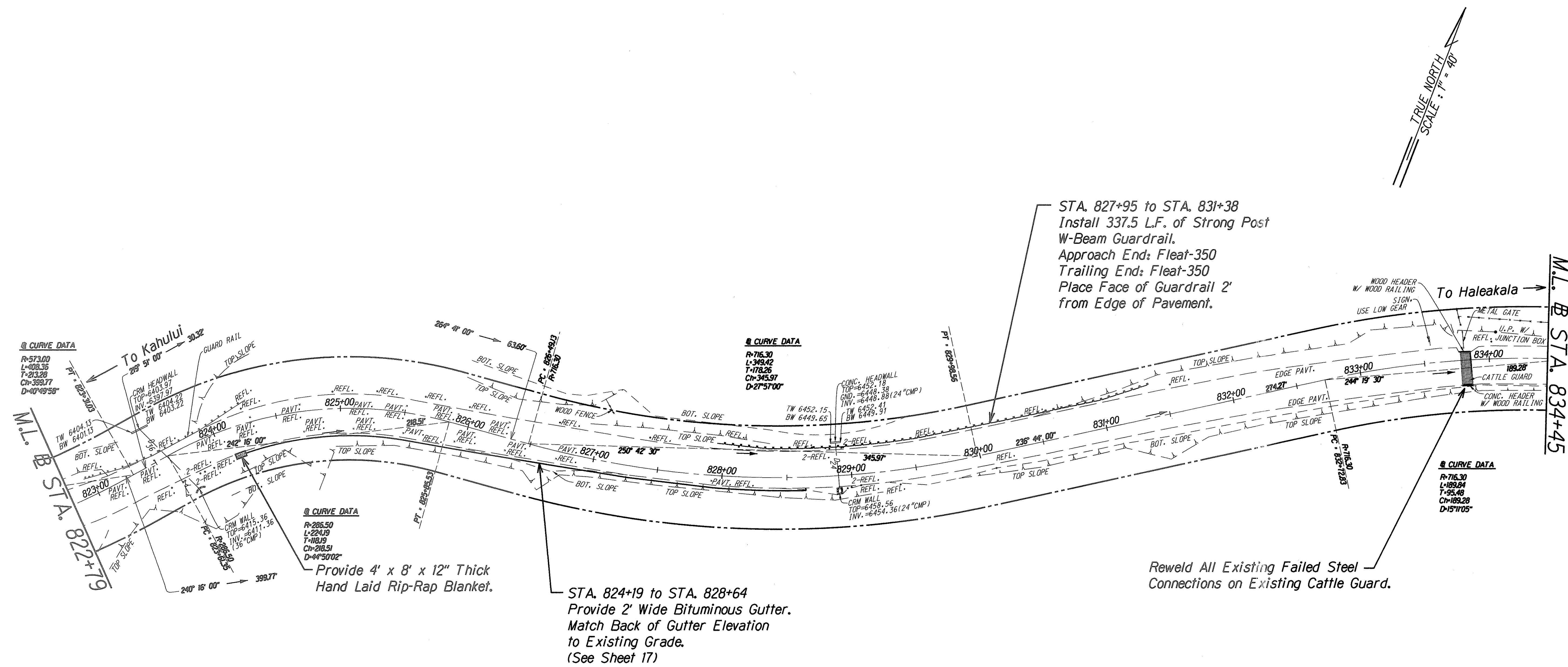
STATE OF HAWAII
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HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**

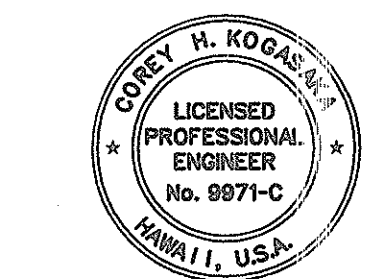
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE

PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	61	73



ORIGINAL PLAN	DATE
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DATE	



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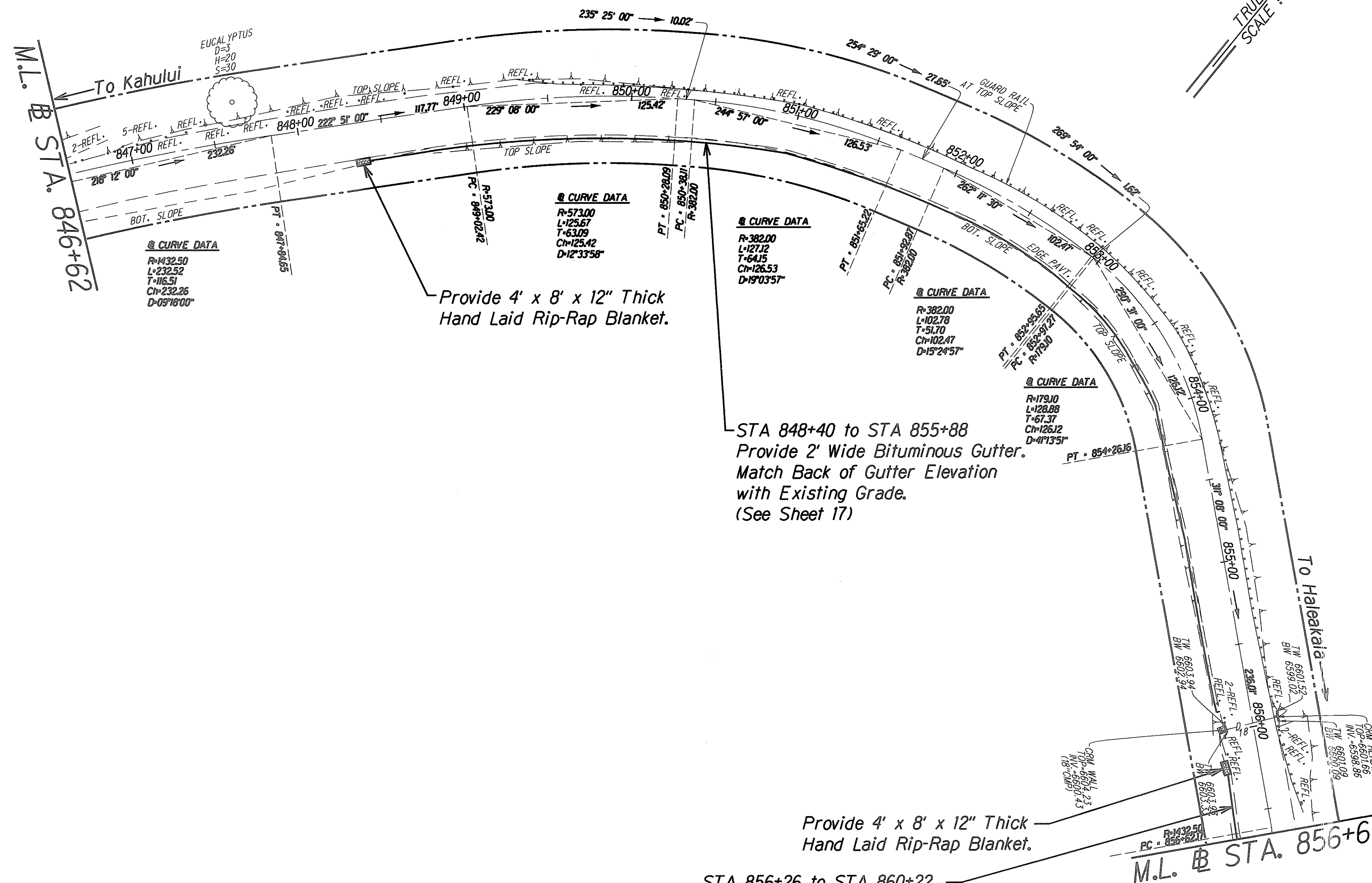
Corey H. Kogas

DATE: 5/3/01

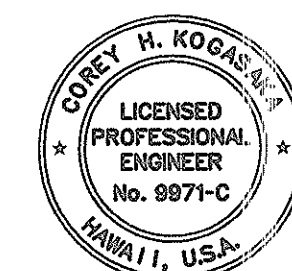
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ROADWAY PLAN &
CULVERT SECTIONS**
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001
SHEET No. 43 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	63	73



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CHECKED BY	
DATE	



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 DATE: 5/3/01

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**ROADWAY PLAN &
 CULVERT SECTIONS**

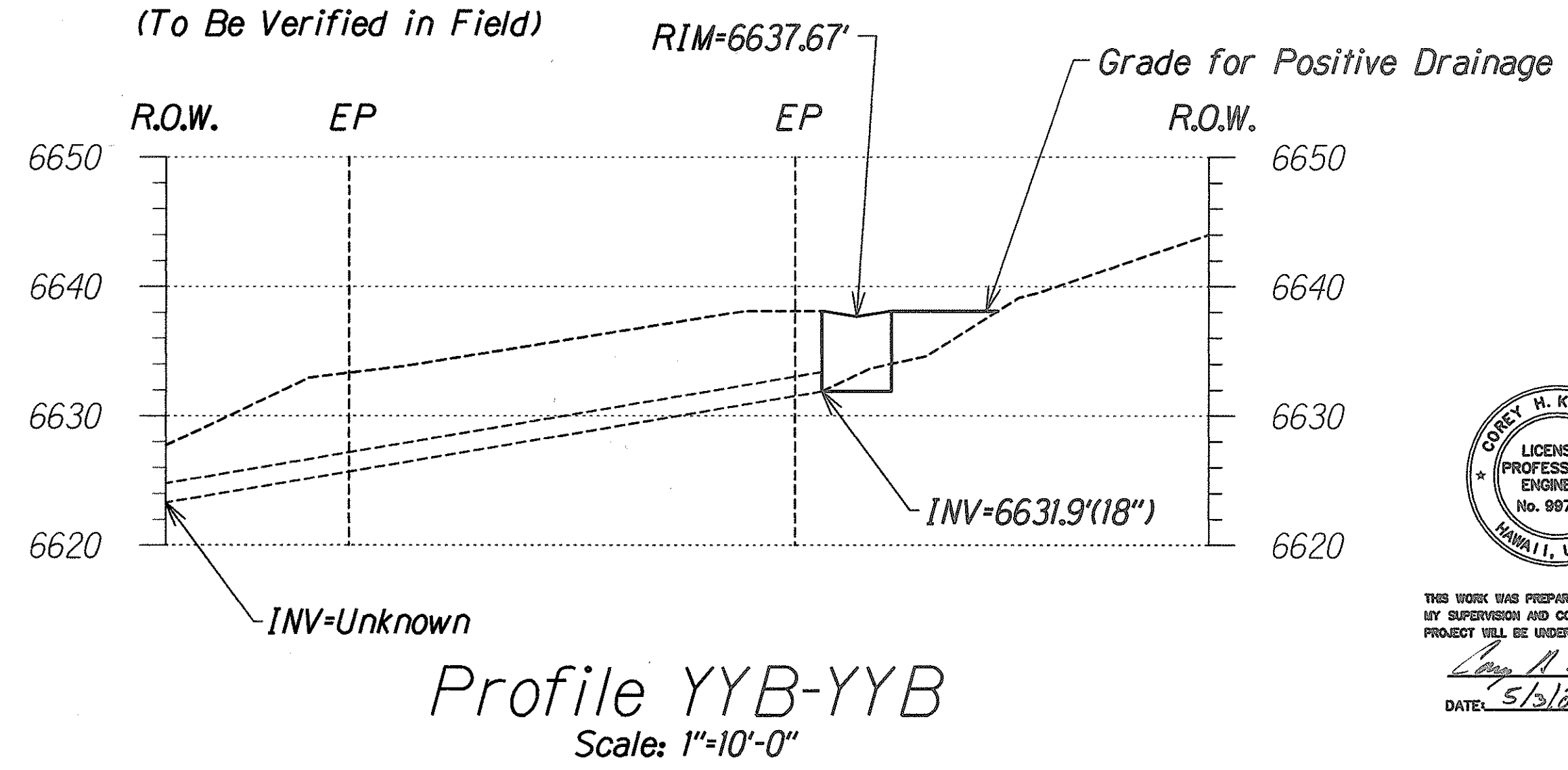
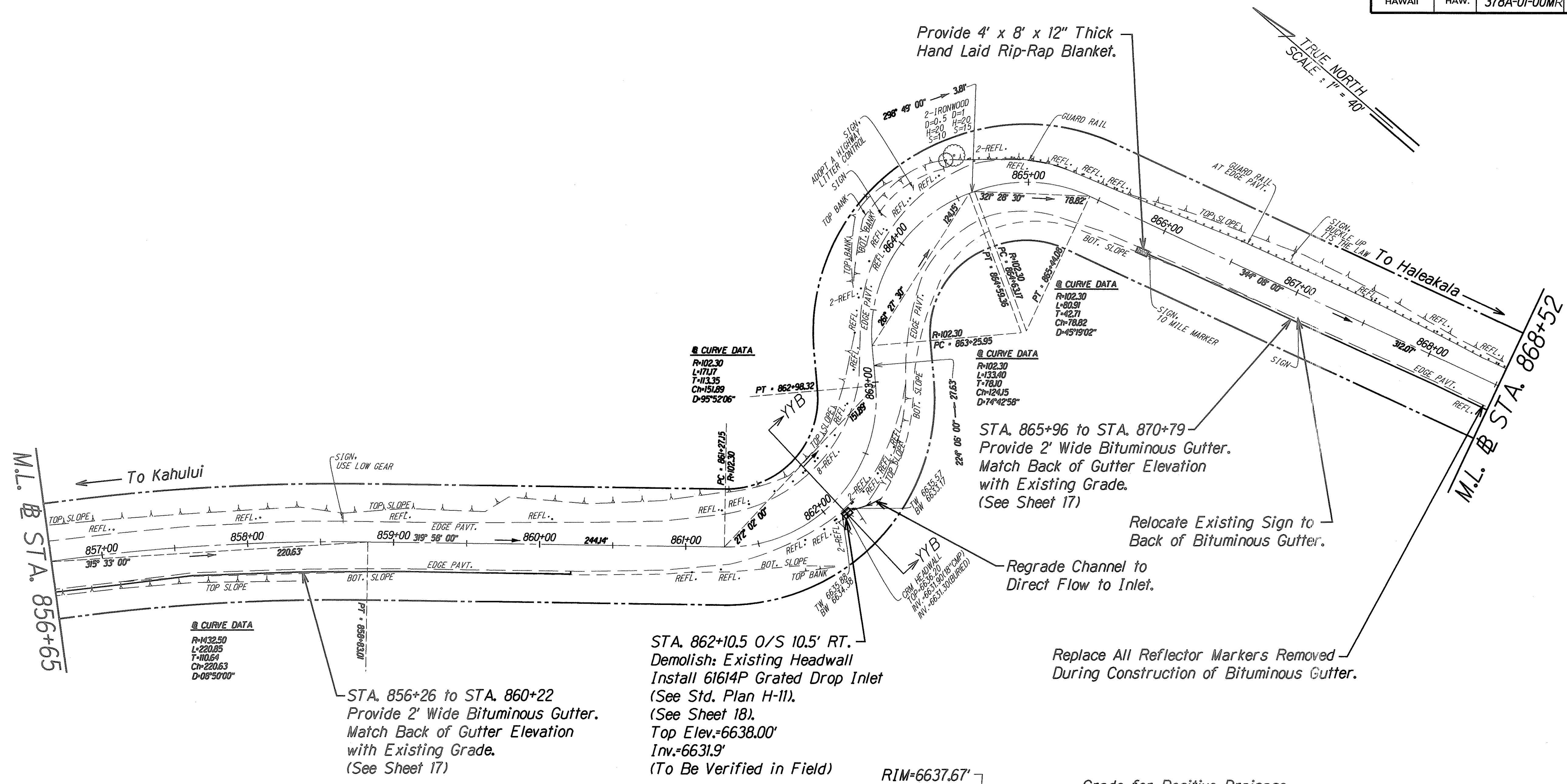
**HALEAKALA CRATER ROAD
 REPAIRS AND MAINTENANCE**

PROJECT NO. 378A-01-00MR

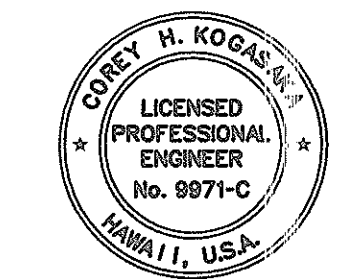
Scale: 1"=40' Date: January, 2001

SHEET No. 45 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	64	73



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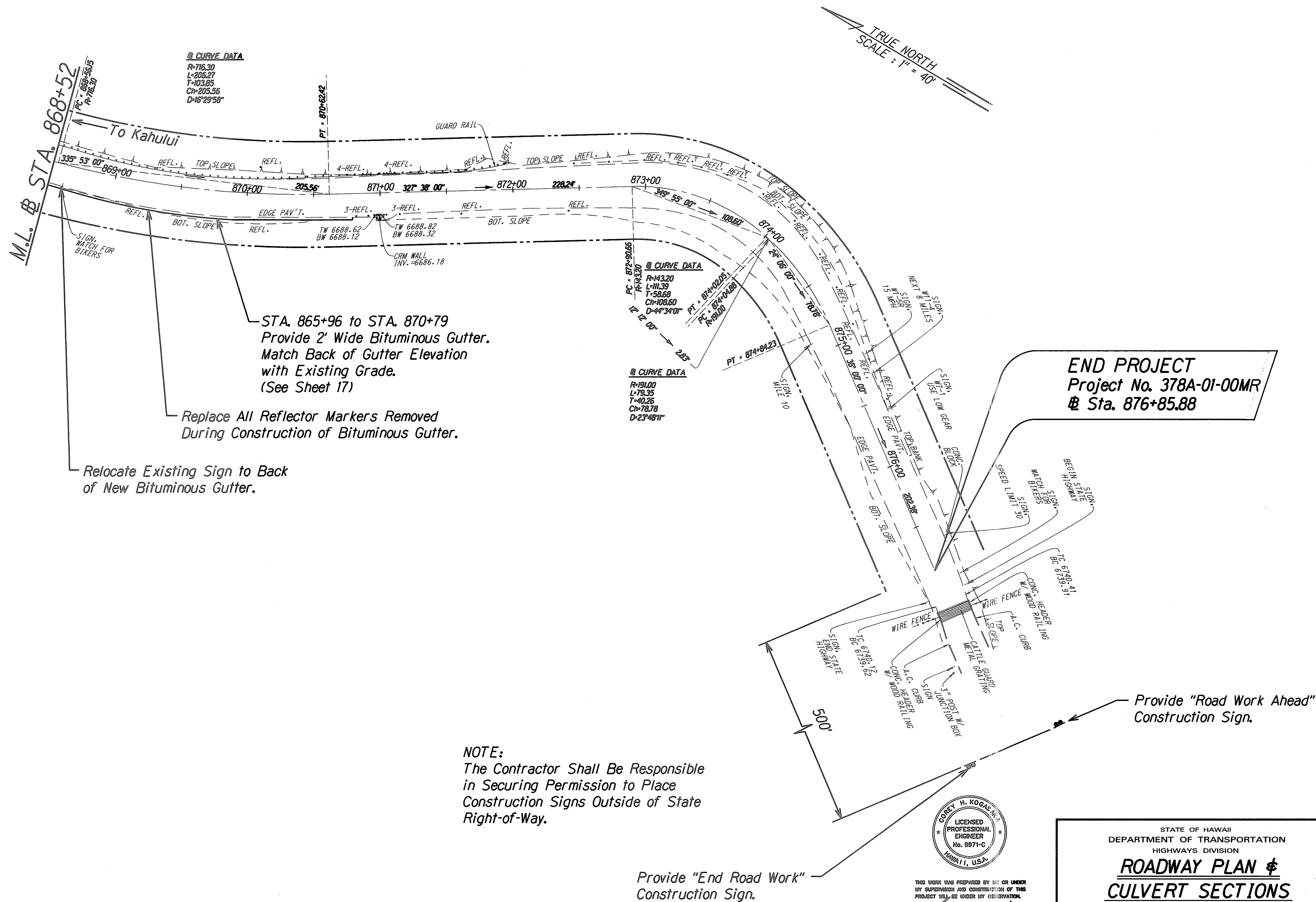


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 DATE: 5/3/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN #
CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40'

Date: January, 2001
SHEET No. 46 OF 47 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	378A-01-00MR	2001	65	73



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NOTE BOOK	
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No.	

STATE OF HAWAII
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HIGHWAYS DIVISION

ROADWAY PLAN #
CULVERT SECTIONS
HALEAKALA CRATER ROAD
REPAIRS AND MAINTENANCE
PROJECT NO. 378A-01-00MR
Scale: 1"=40' Date: January, 2001

SHEET No. 47 OF 47 SHEETS