

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	72	187

Note:
See Sht. 73 for New
24" Drainline Schedule.

Install End Post Connection (25') to
Existing Conc. Barrier. See Sheet 100.

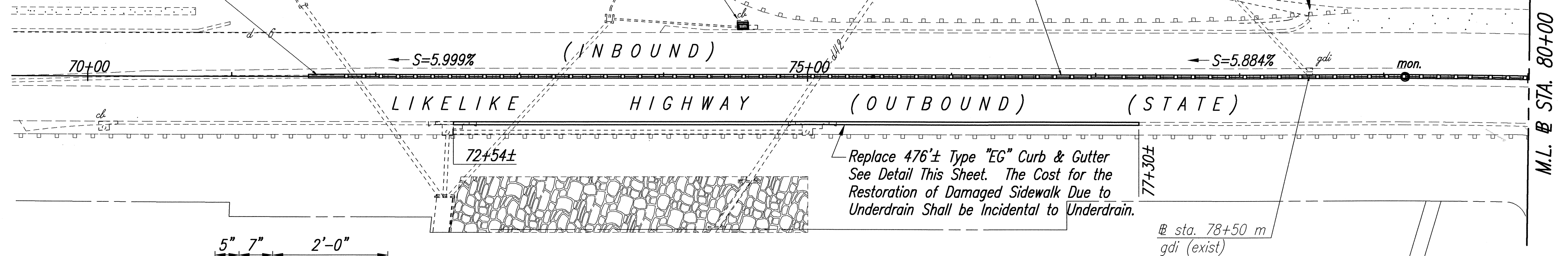
TRUE NORTH
SCALE : 1"=40'

@ Sta. 74+53 Lt.
New Modified Type 61214 GDI
Top=335.41±
Inv.=330.21±
See Sht. 120

@ Sta. 71+80± to @ Sta. 80+40±
Remove existing double guardrail and
install 860± LF of Double Metal
Guardrail with Steel Posts and Rubrail

@ sta. 78+43 lt.
spillway (exist)

Note:
See Sheet 80 for
Drainage Improvements
Near Emmeline Place.



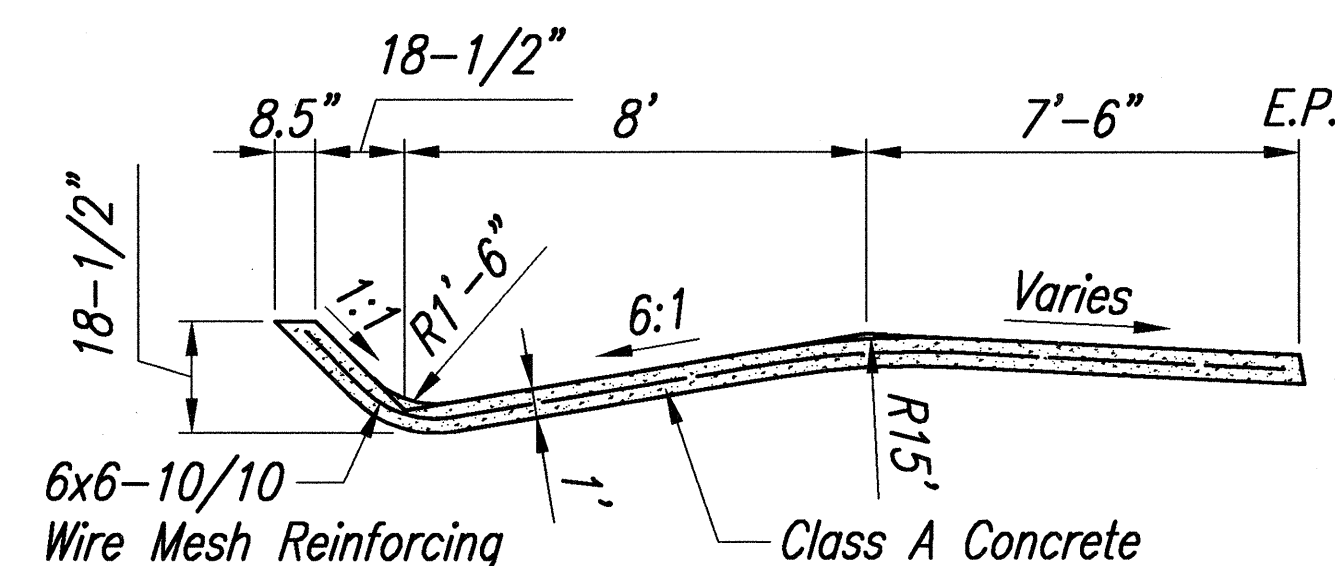
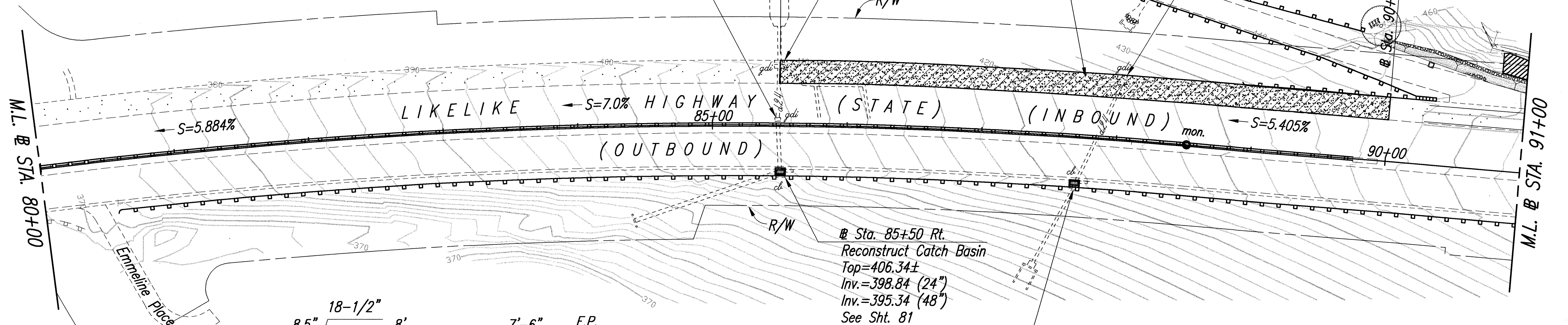
TYPE "EG" CURB AND GUTTER
Not to Scale

@ Sta. 85+50
Adjust exist. grated
inlet frame & cover

@ Sta. 85+50 Lt. to @ Sta. 90+00 Lt.
Install New Type "D" Gutter
See Detail This Sheet.

@ sta. 85+50 lt.
gdi (exist)

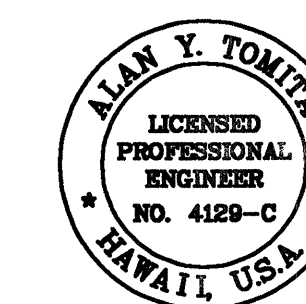
@ sta. 88+00 lt.
gdi (exist)



TYPE "D" CONC. GUTTER
Not to Scale

@ Sta. 85+50 Rt.
Reconstruct Catch Basin
Top=406.34±
Inv.=398.84 (24")
Inv.=395.34 (48")
See Sht. 81

@ Sta. 87+55 Rt.
Reconstruct Catch Basin
Inv.=414.0
See Sht. 81



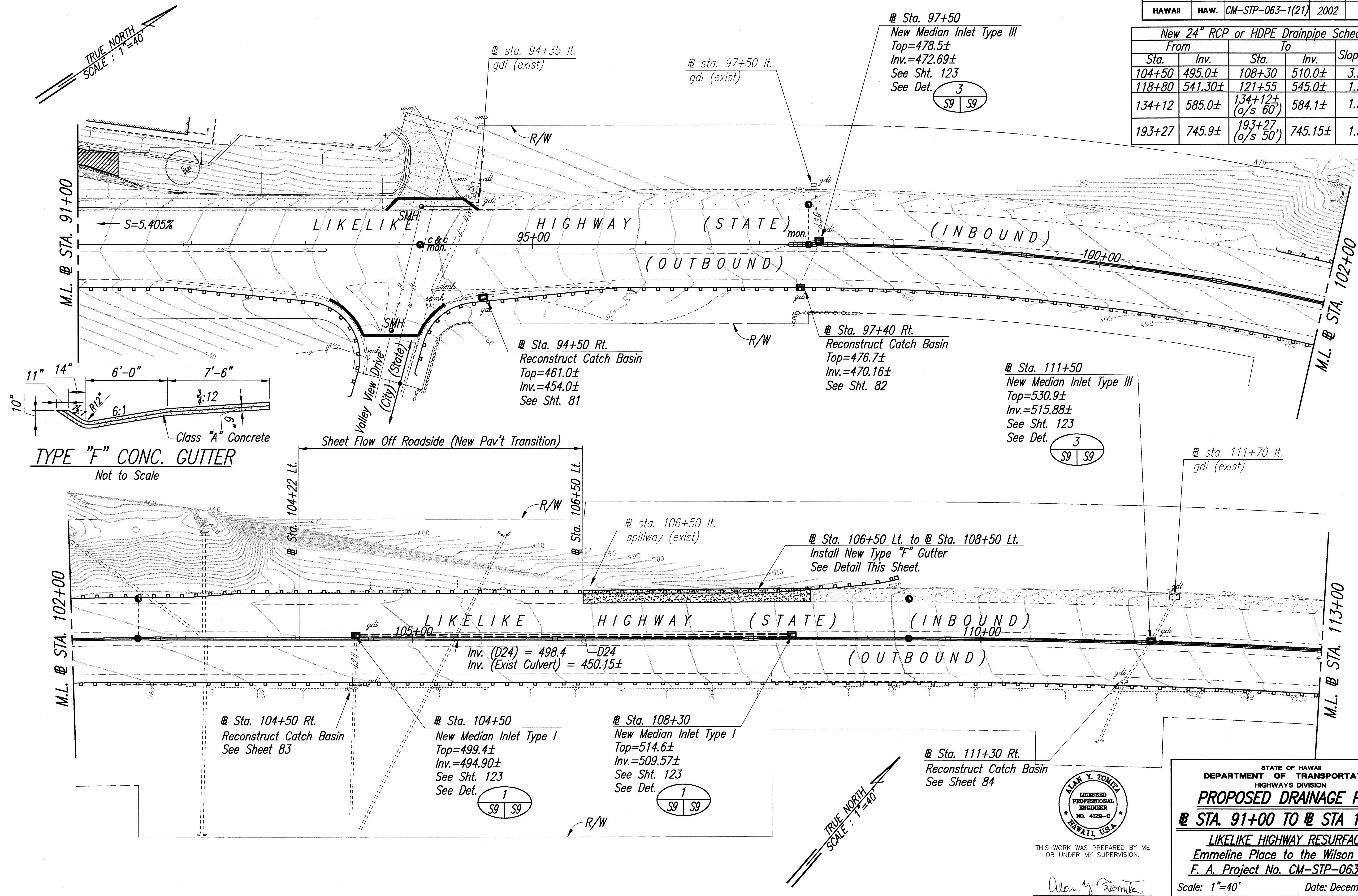
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Alan Y. Tomita

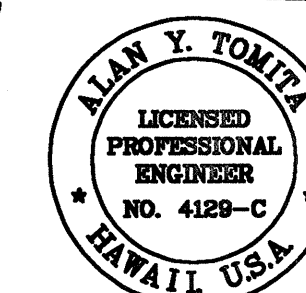
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PROPOSED DRAINAGE PLAN
@ STA. 74+53 TO @ STA 91+00
LIKELIKE HIGHWAY RESURFACING
Emmeline Place to the Wilson Tunnel
F. A. Project No. CM-STP-063-1(21)
Scale: 1"=40' Date: December, 2001
SHEET No. 1 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	73	187

New 24" RCP or HDPE Drainpipe Schedule				
From Sta.	Inv.	To Sta.	Inv.	Slope (%)
104+50	495.0±	108+30	510.0±	3.95%
118+80	541.30±	121+55	545.0±	1.35%
134+12	585.0±	134+12+ (o/s 60)	584.1±	1.5%
193+27	745.9±	193+27 (o/s 50)	745.15±	1.5%



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



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROPOSED DRAINAGE PLAN

STA. 91+00 TO STA. 113+00

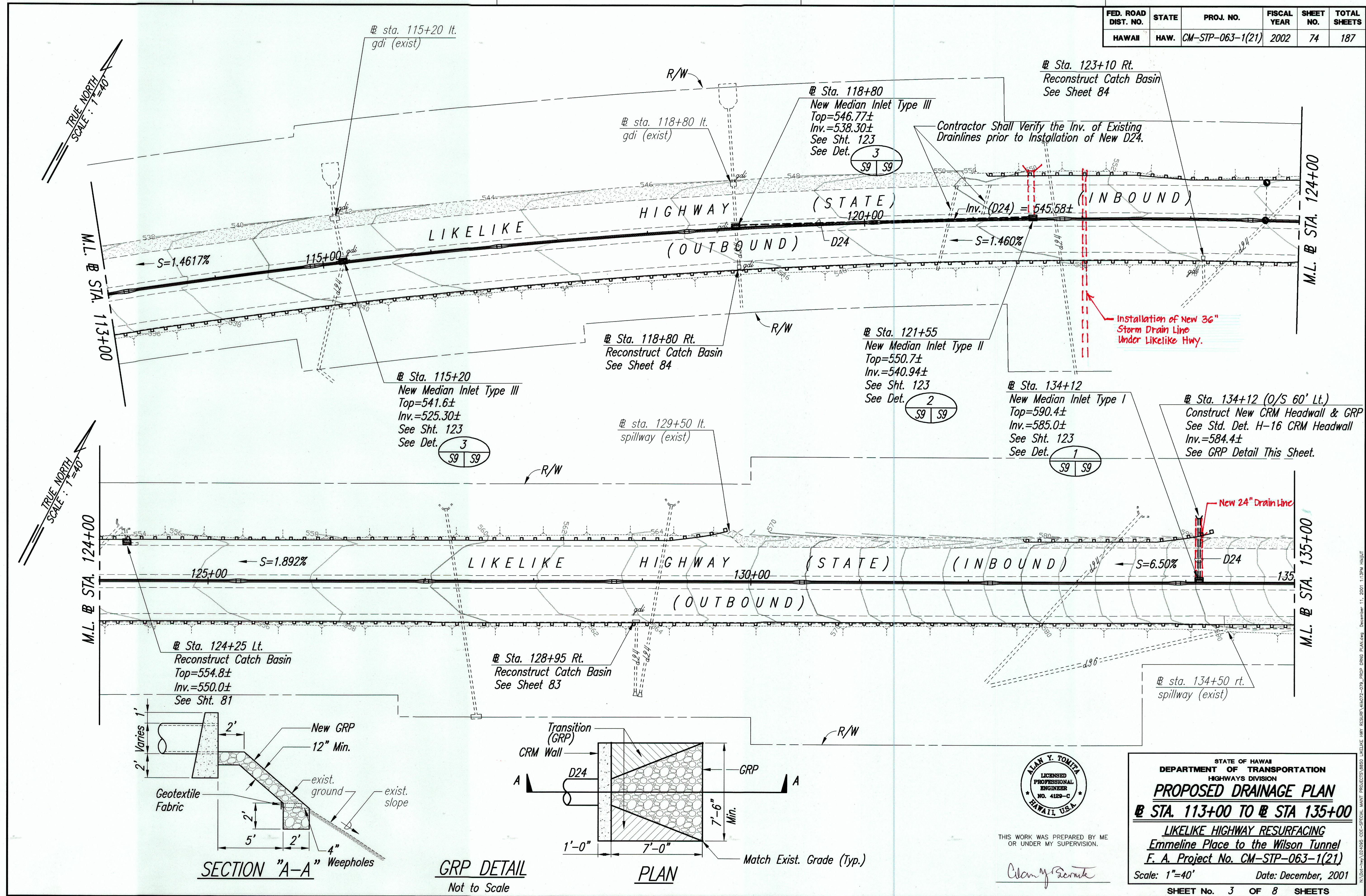
LIKELIKE HIGHWAY RESURFACING

Emmeline Place to the Wilson Tunnel

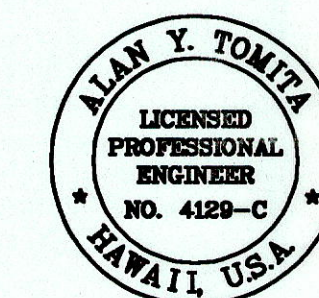
F. A. Project No. CM-STP-063-1(21)

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	74	187



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROPOSED DRAINAGE PLAN

STA. 113+00 TO STA. 135+00

LIKELIKE HIGHWAY RESURFACING

Emmeline Place to the Wilson Tunnel

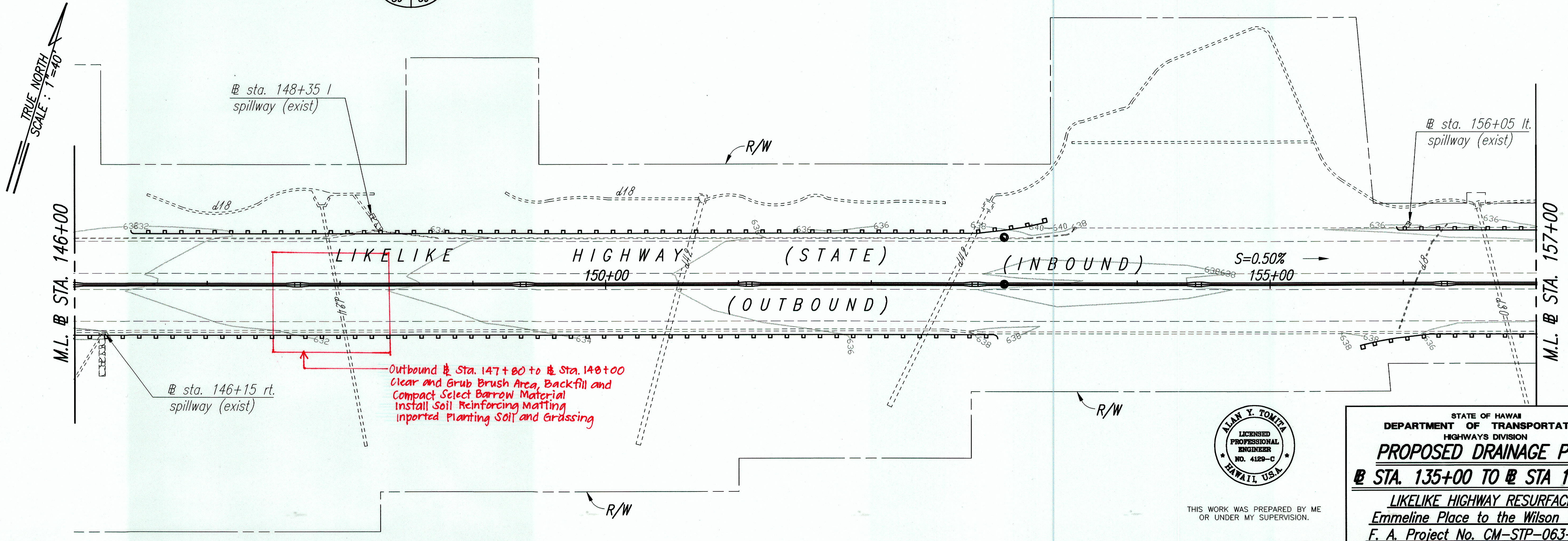
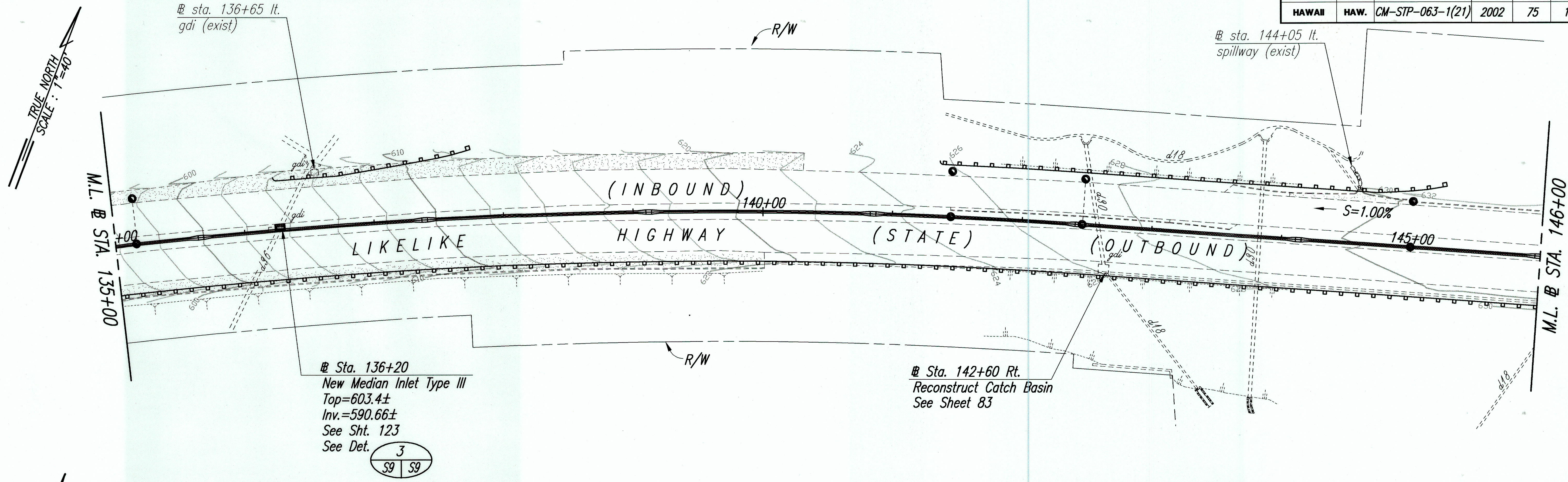
F. A. Project No. CM-STP-063-1(21)

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

SHEET No. 3 OF 8 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	75	187



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROPOSED DRAINAGE PLAN
Sta. 135+00 TO Sta. 157+00

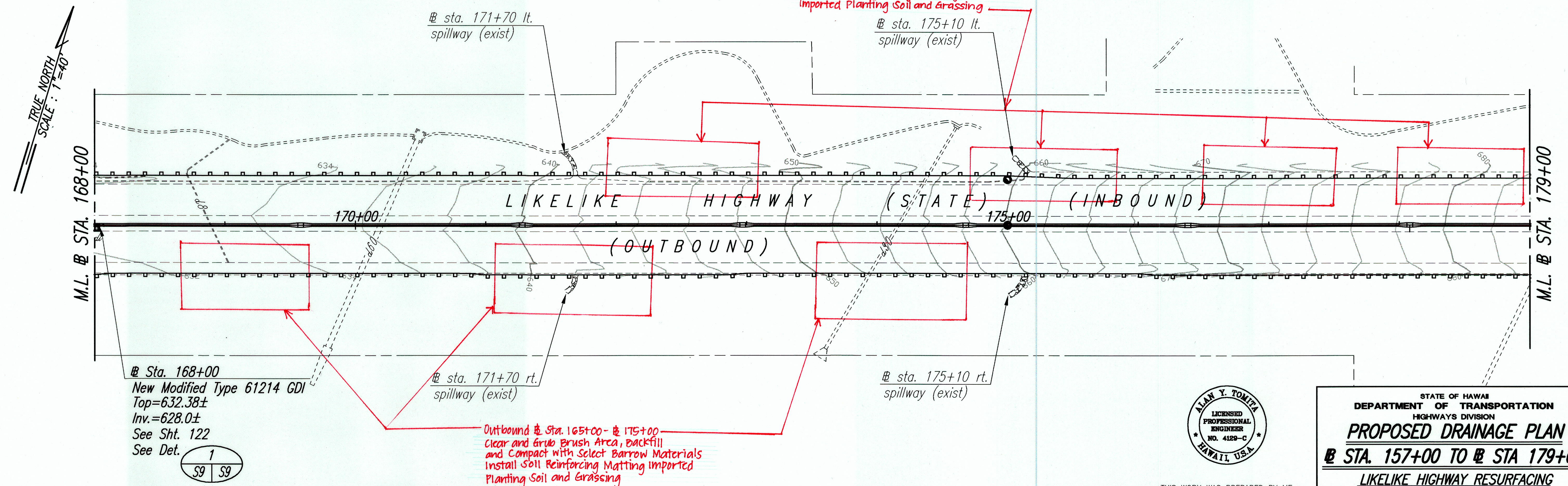
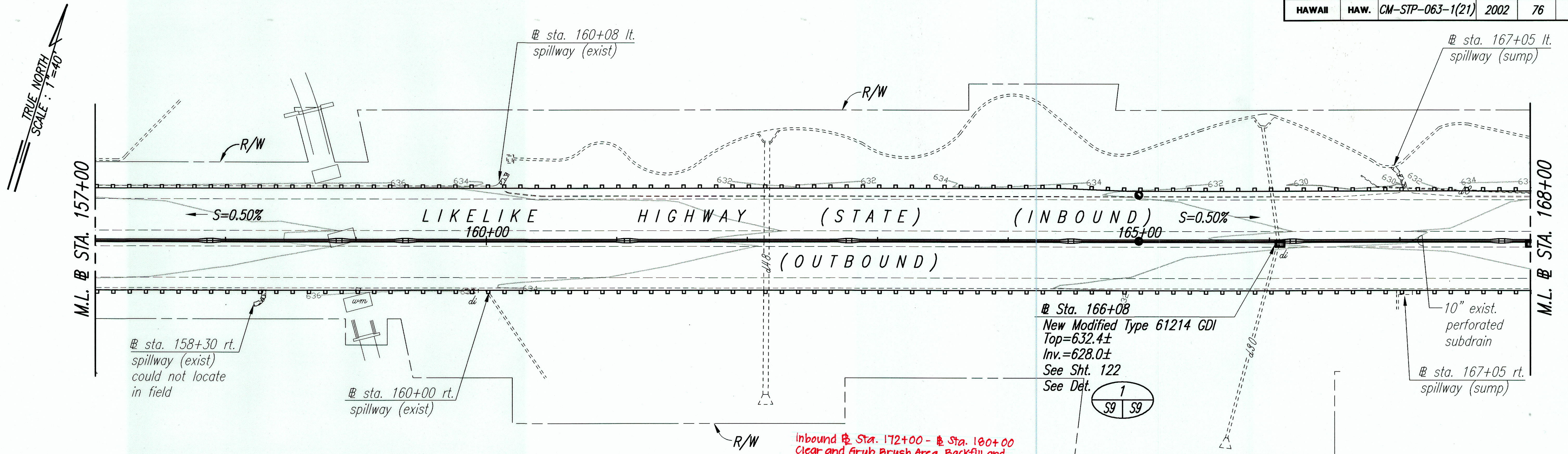
LIKELINE HIGHWAY RESURFACING
Emmeline Place to the Wilson Tunnel
F. A. Project No. CM-STP-063-1(21)

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

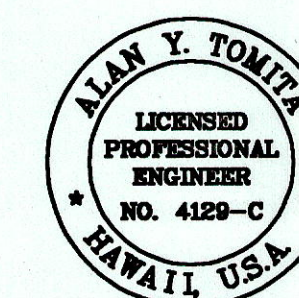
SHEET No. 4 OF 8 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	76	187



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	QUANTITIES BY	"
	CHECKED BY	"



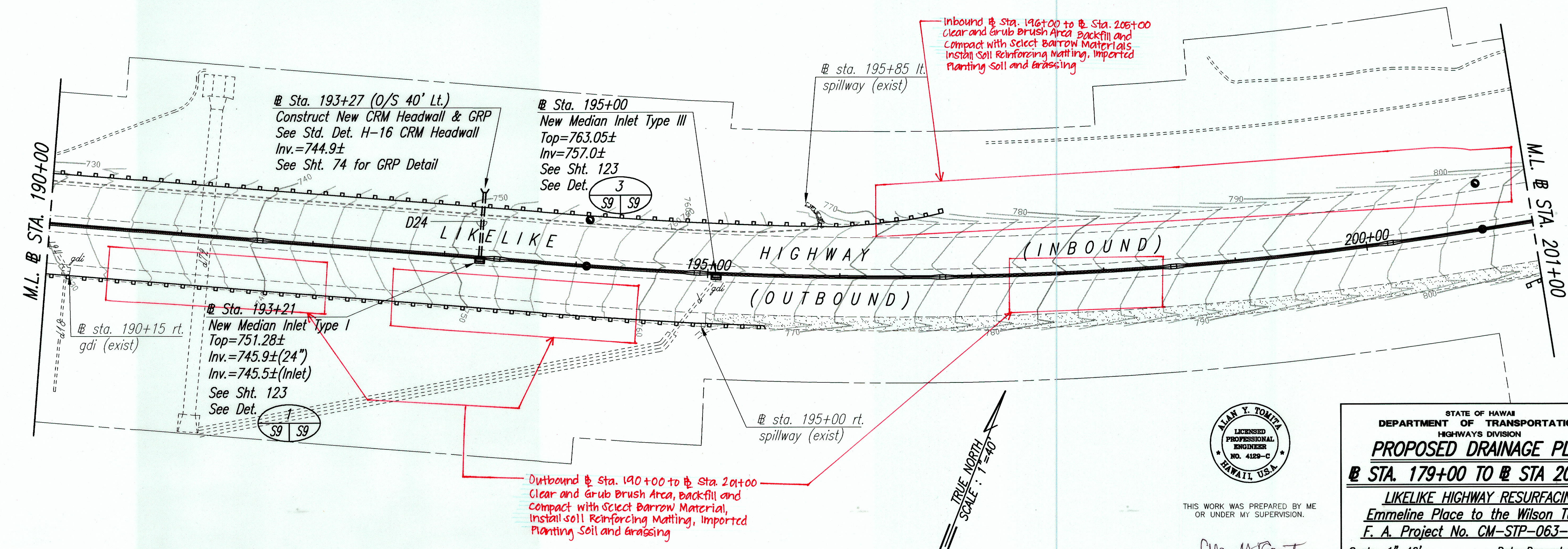
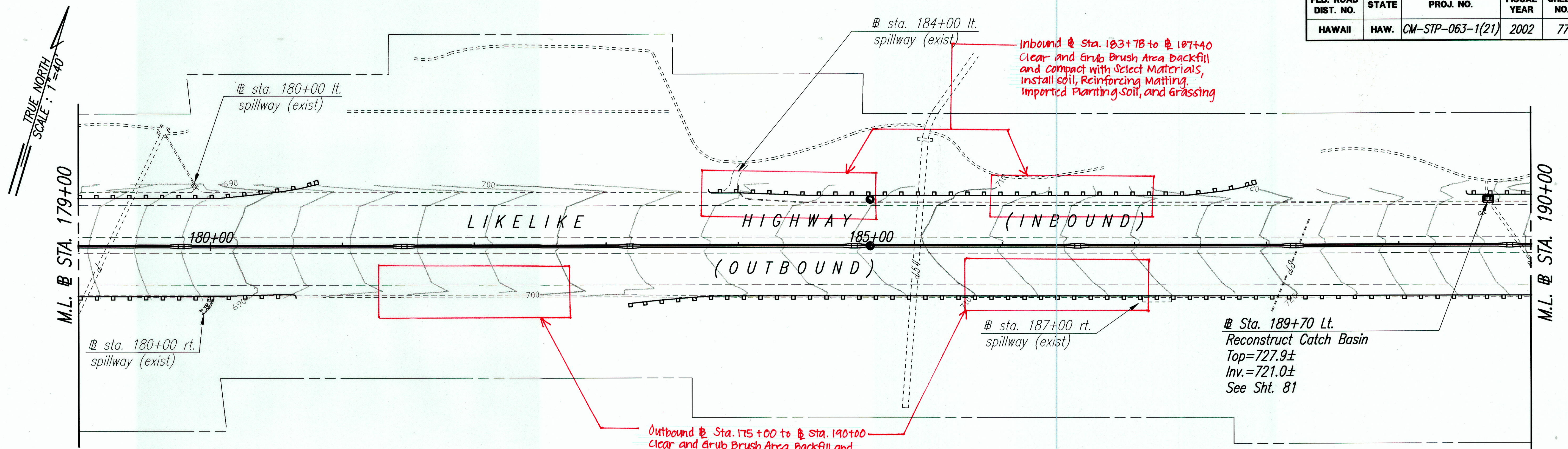
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PROPOSED DRAINAGE PLAN
STA. 157+00 TO STA. 179+00
LIKELIKE HIGHWAY RESURFACING
Emmeline Place to the Wilson Tunnel
F. A. Project No. CM-STP-063-1(21)
Scale: 1"=40' Date: December, 2001
SHEET No. 5 OF 8 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	77	187



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

ALAN Y. TOMITA
LICENSED PROFESSIONAL ENGINEER
NO. 4129-C
HAWAII, U.S.A.

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Alan Y. Tomita

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROPOSED DRAINAGE PLAN

STA. 179+00 TO STA. 201+00

LIKELINE HIGHWAY RESURFACING

Emmeline Place to the Wilson Tunnel

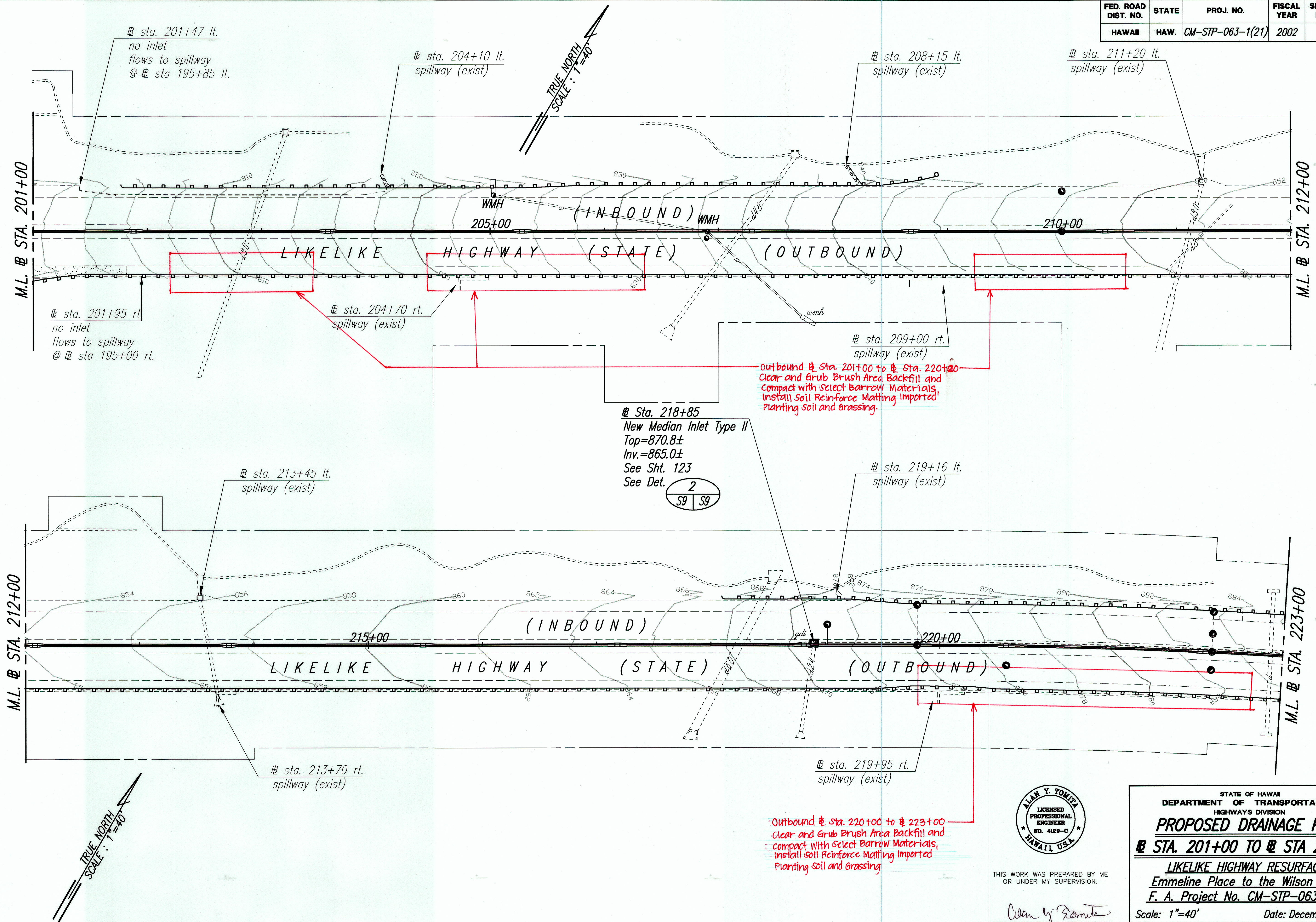
F. A. Project No. CM-STP-063-1(21)

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

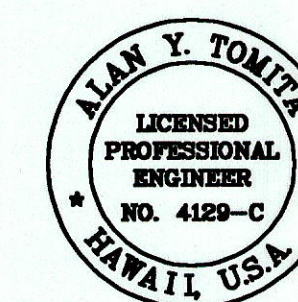
SHEET No. 6 OF 8 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	78	187



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



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROPOSED DRAINAGE PLAN

STA. 201+00 TO STA. 223+00

LIKELIKE HIGHWAY RESURFACING

Emmeline Place to the Wilson Tunnel

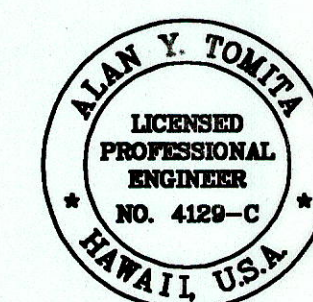
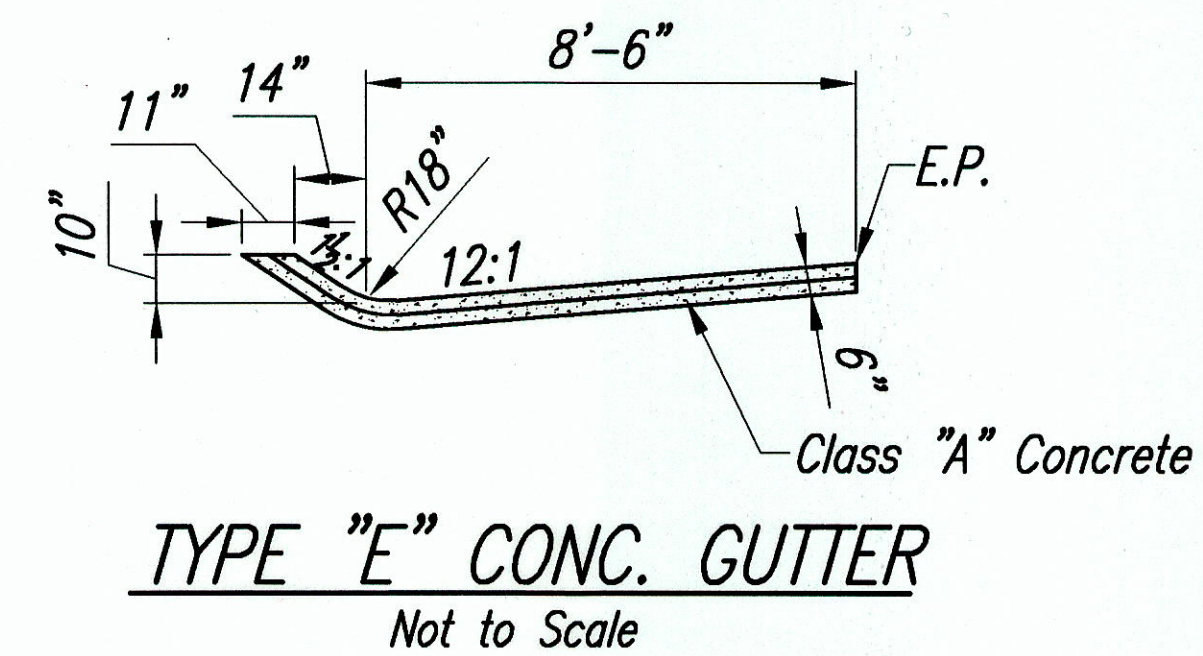
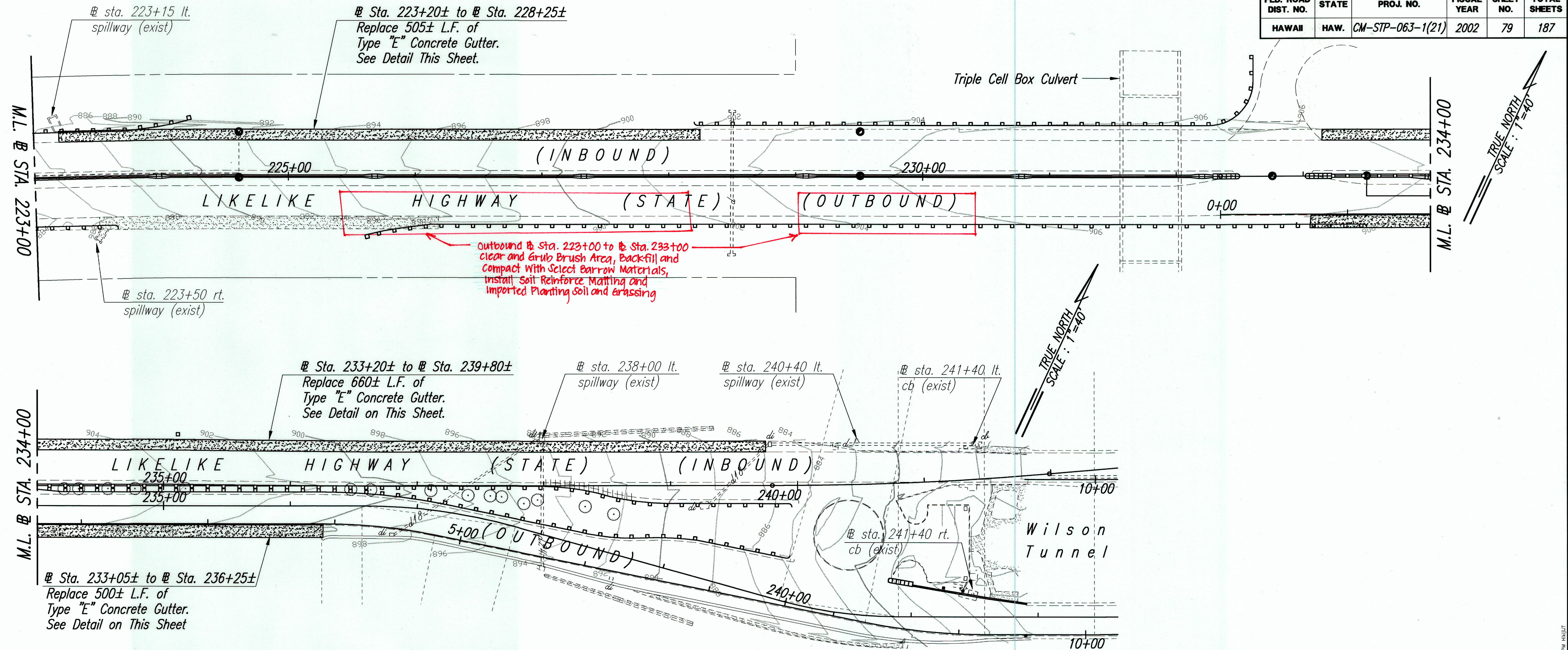
F. A. Project No. CM-STP-063-1(21)

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

SHEET No. 7 OF 8 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CM-STP-063-1(21)	2002	79	187



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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
PROPOSED DRAINAGE PLAN
@ STA. 223+00 TO END PROJECT
 LIKELIKE HIGHWAY RESURFACING
 Emmeline Place to the Wilson Tunnel
 F. A. Project No. CM-STP-063-1(21)
 Scale: 1"=40' Date: December, 2001
 SHEET No. 8 OF 8 SHEETS

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

"AS-BUILT"