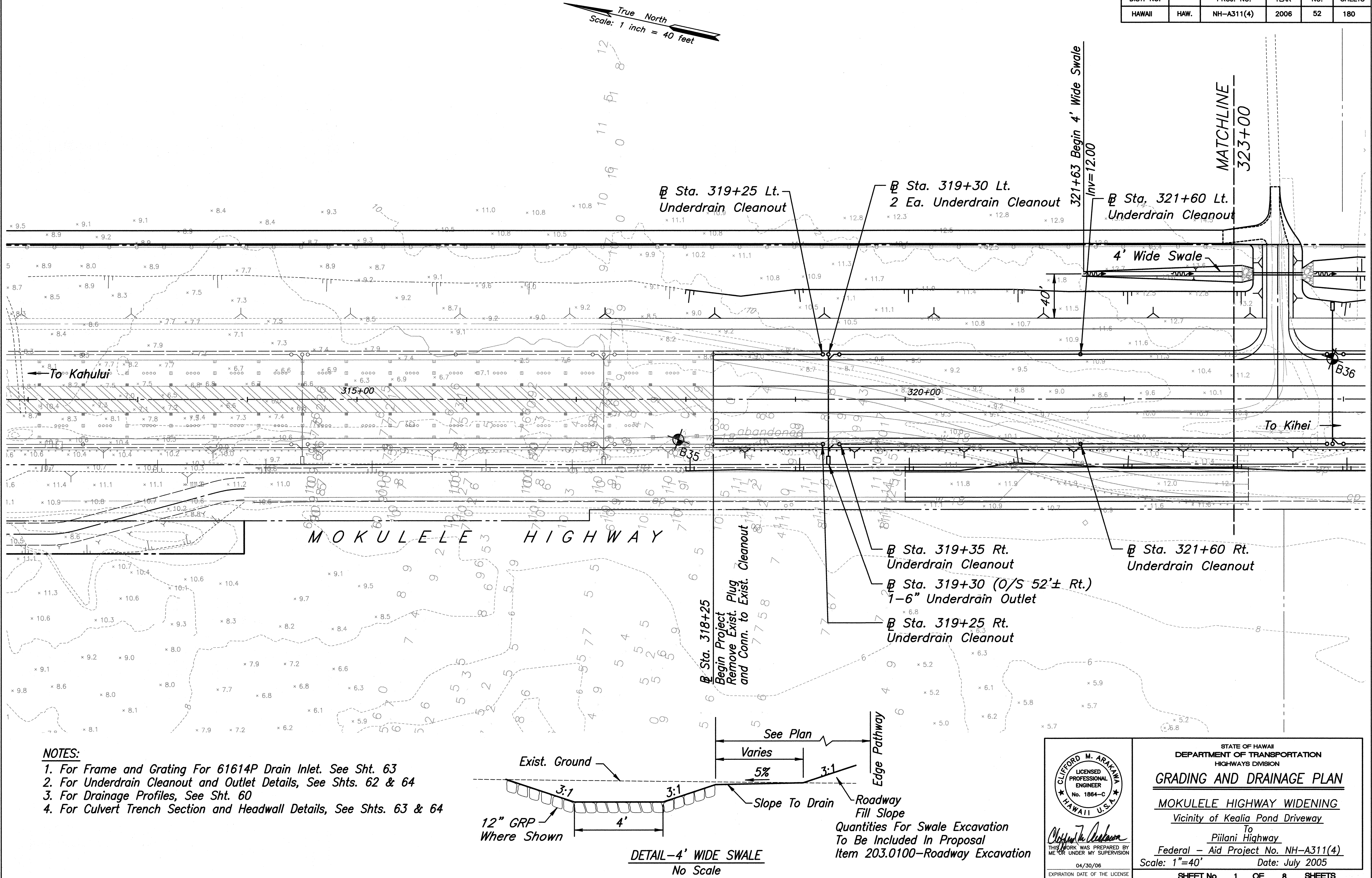


FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	52	180



DATE	12/12/03
SURVEY PLOTTED BY	
DESIGNED BY	
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NOTE BOOK	
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No.	

CLIFFORD M. ARAKAWA
LICENSED PROFESSIONAL ENGINEER
No. 1864-C
HAWAII U.S.A.

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04/30/06
EXPIRATION DATE OF THE LICENSE

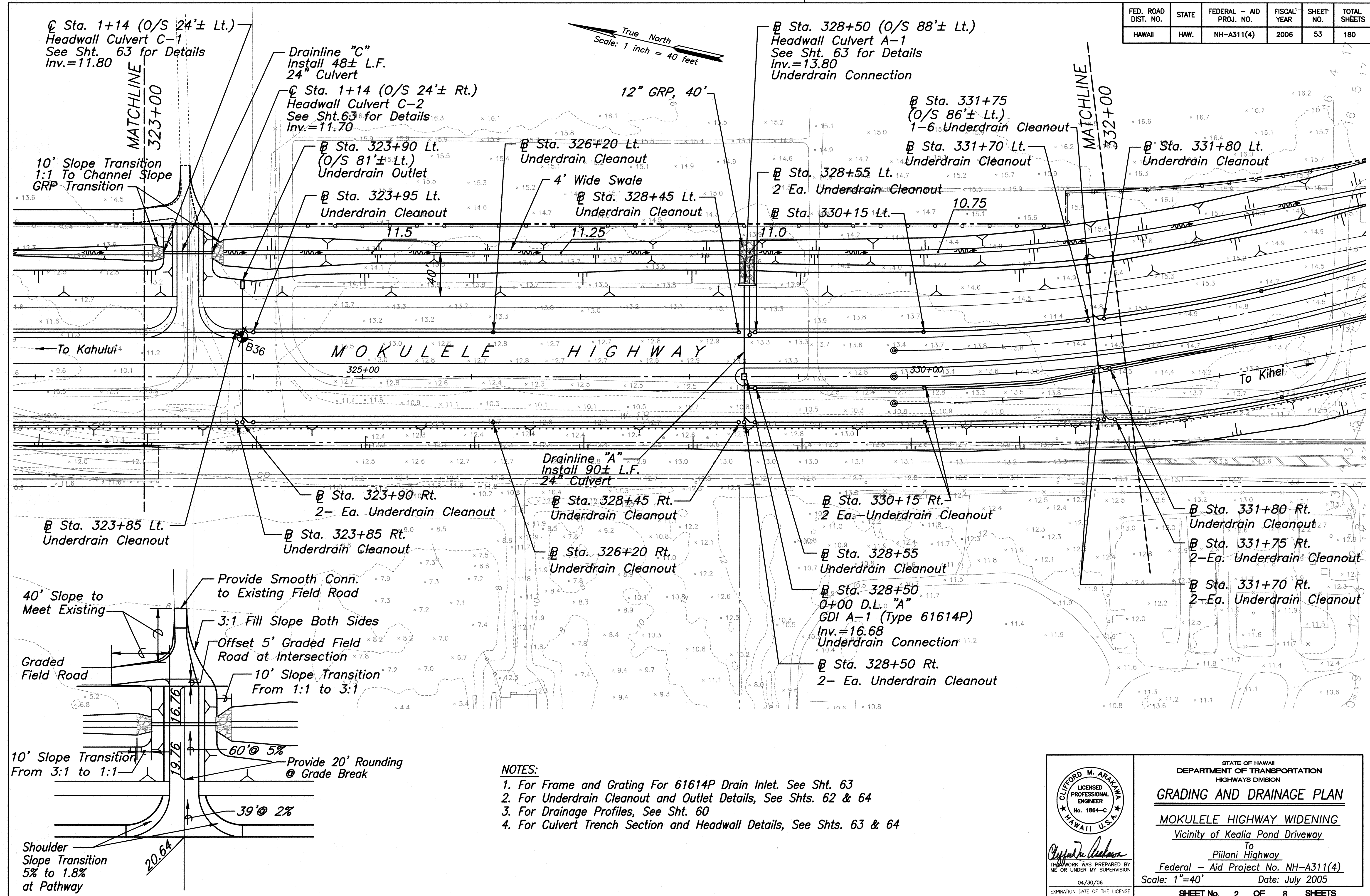
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

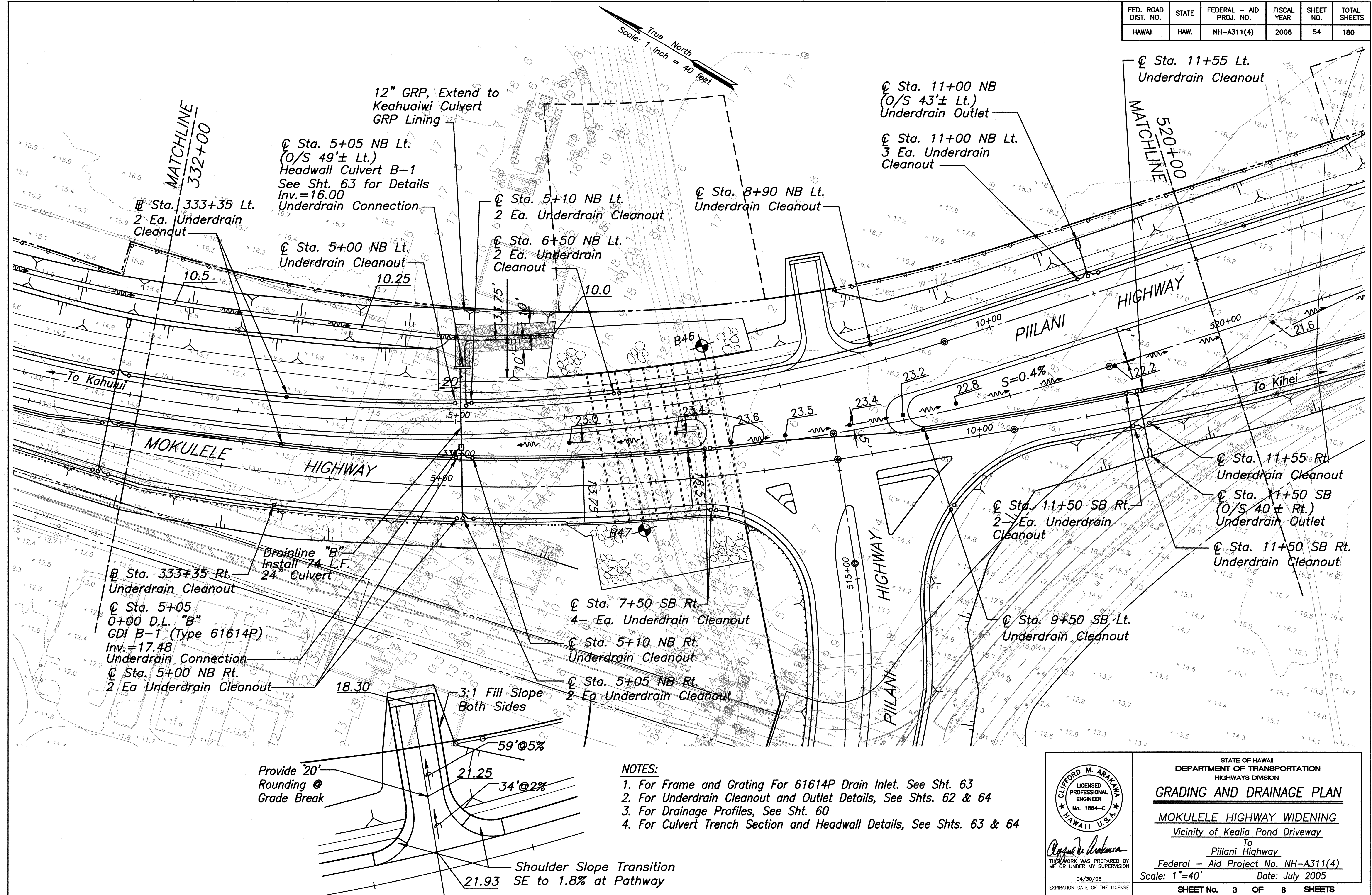
MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=40' Date: July 2005

SHEET No. 1 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	53	180



FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	54	180



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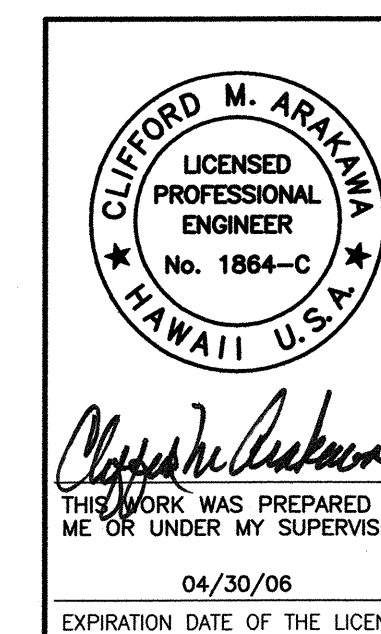
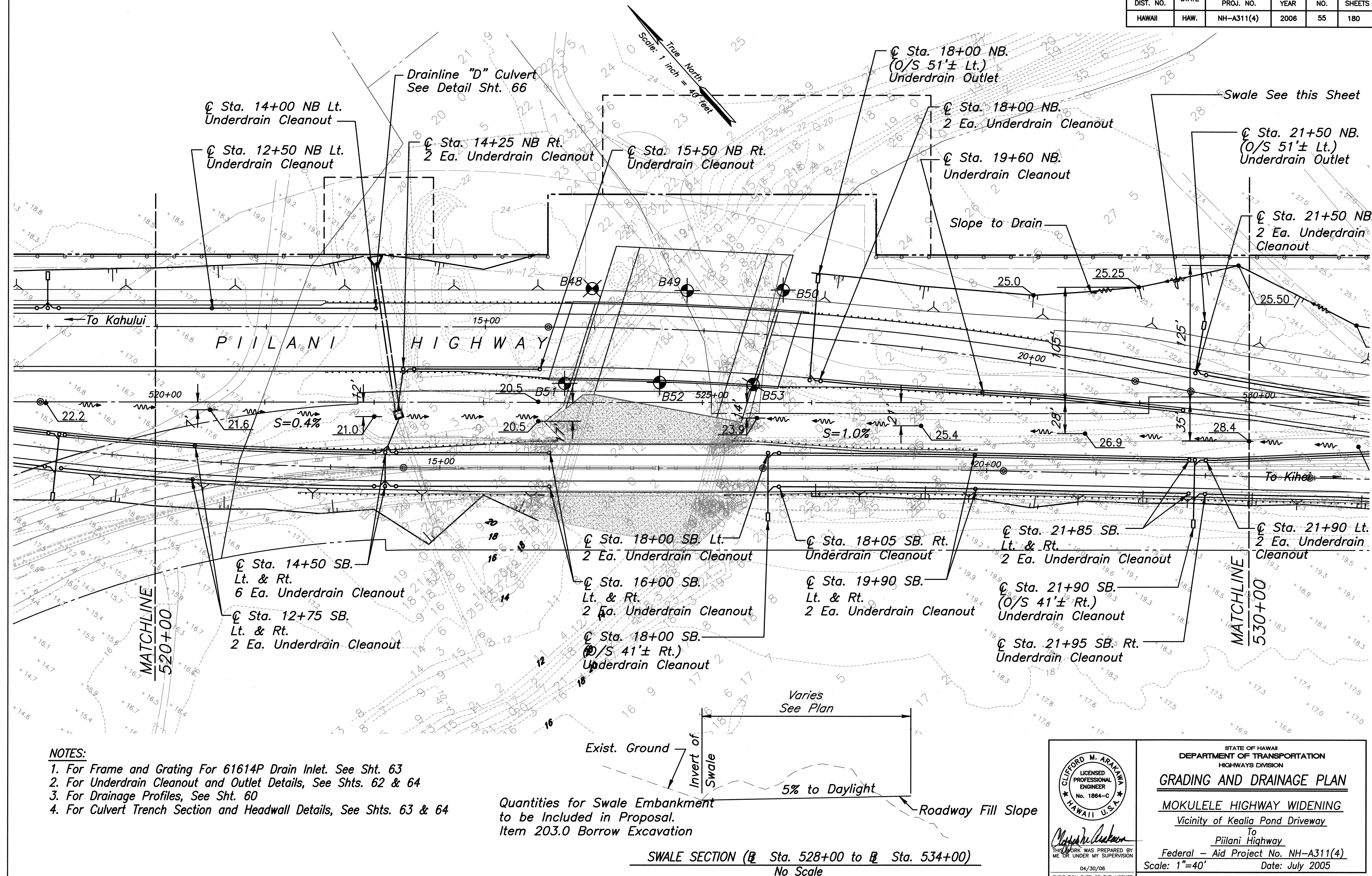
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=40' Date: July 2005

SHEET No. 3 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	55	180



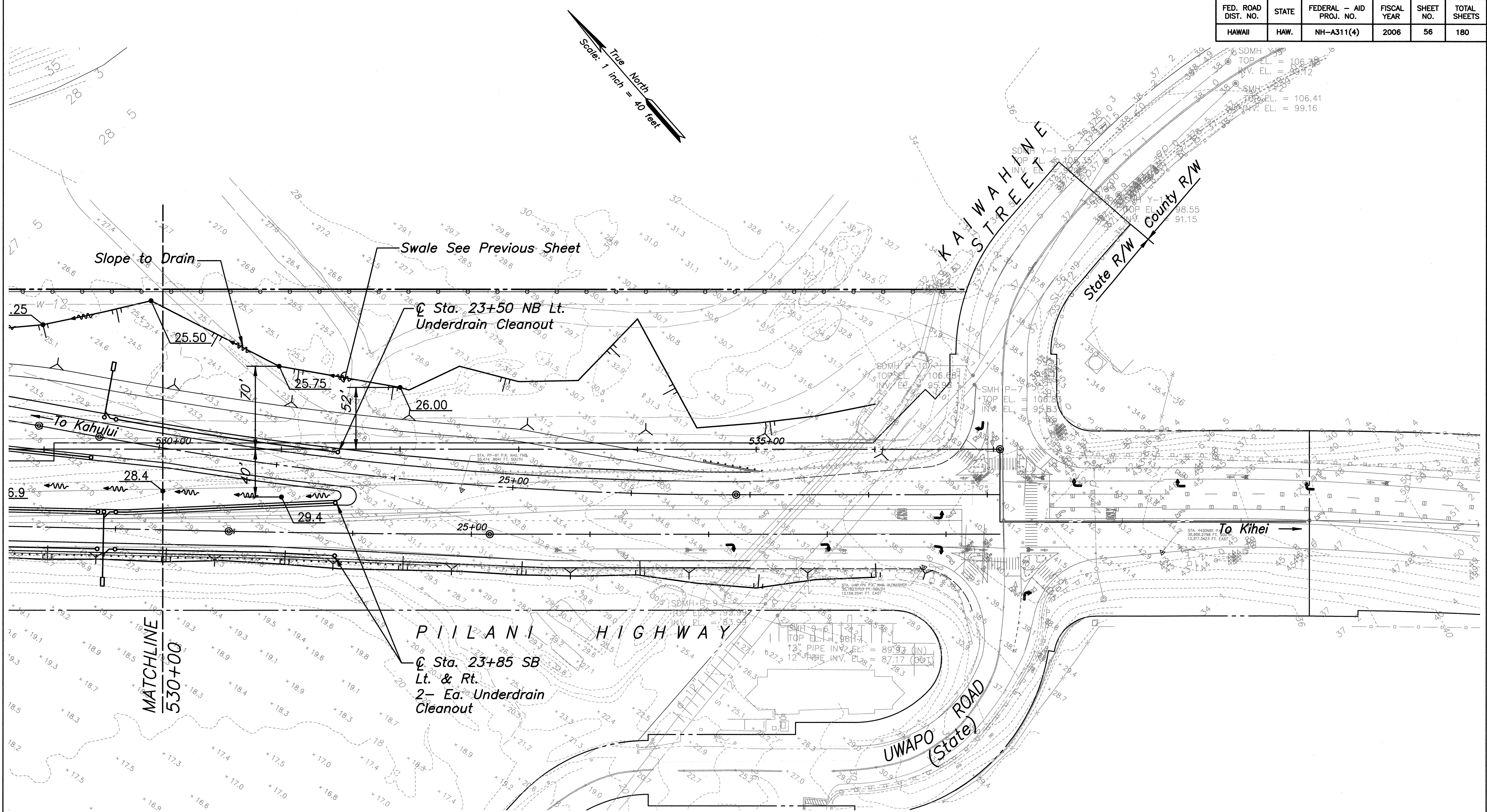
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=40' Date: July 2005

SHEET No. 4 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	56	180



- NOTES:**
1. For Frame and Grating For 61614P Drain Inlet. See Sht. 63
 2. For Underdrain Cleanout and Outlet Details, See Shts. 62 & 64
 3. For Drainage Profiles, See Sht. 60
 4. For Culvert Trench Section and Headwall Details, See Shts. 63 & 64

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

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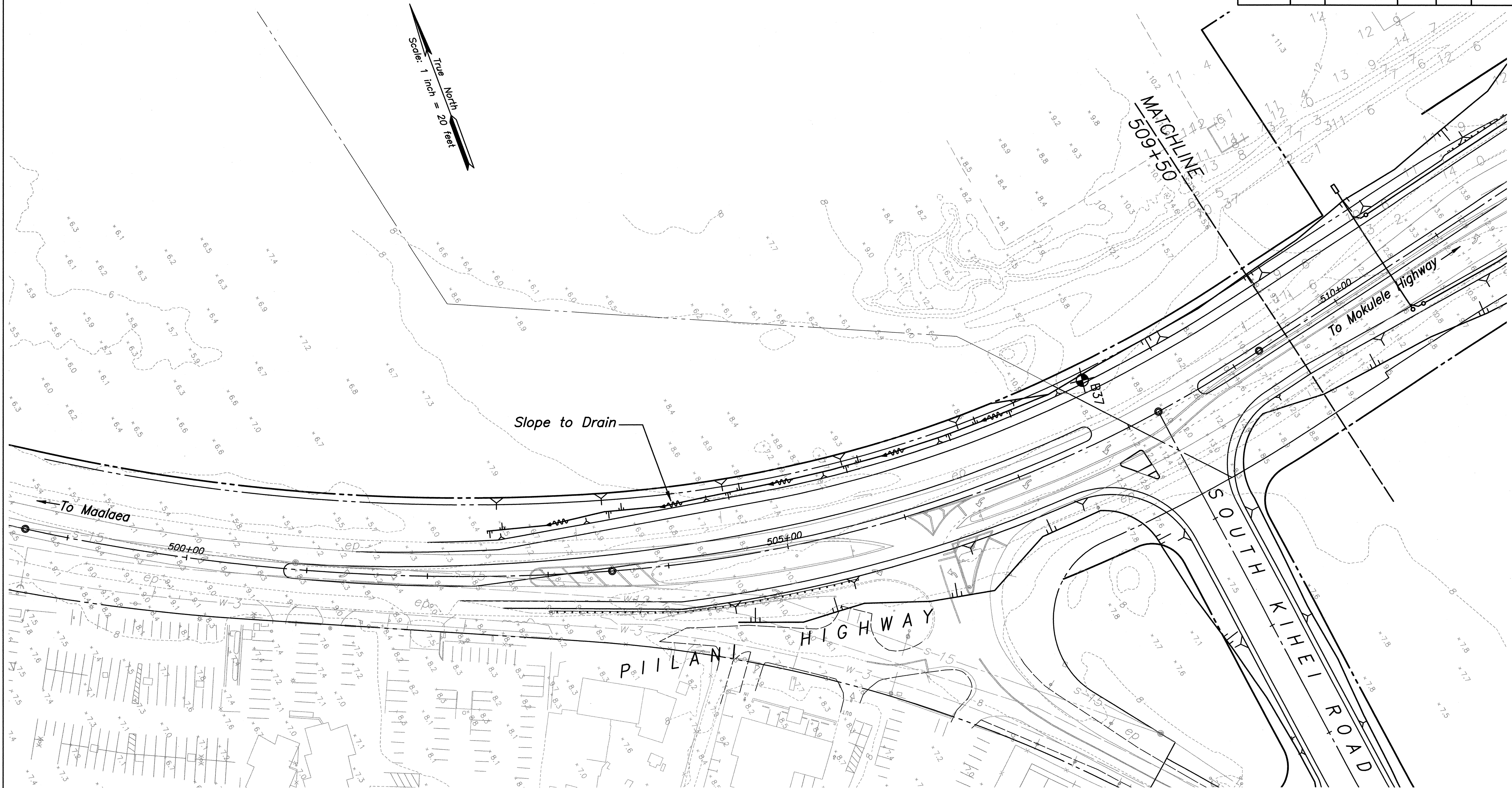
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=40' Date: July 2005

SHEET No. 5 OF 8 SHEETS

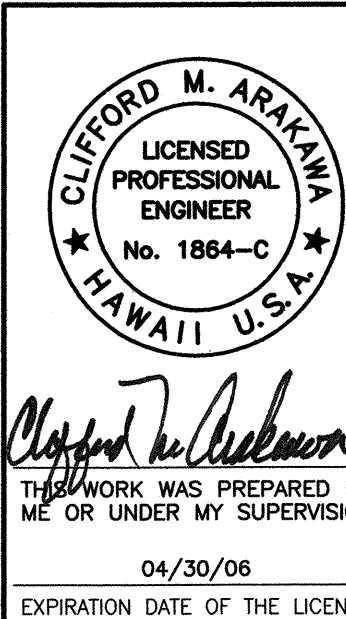
FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	57	180



NOTES:

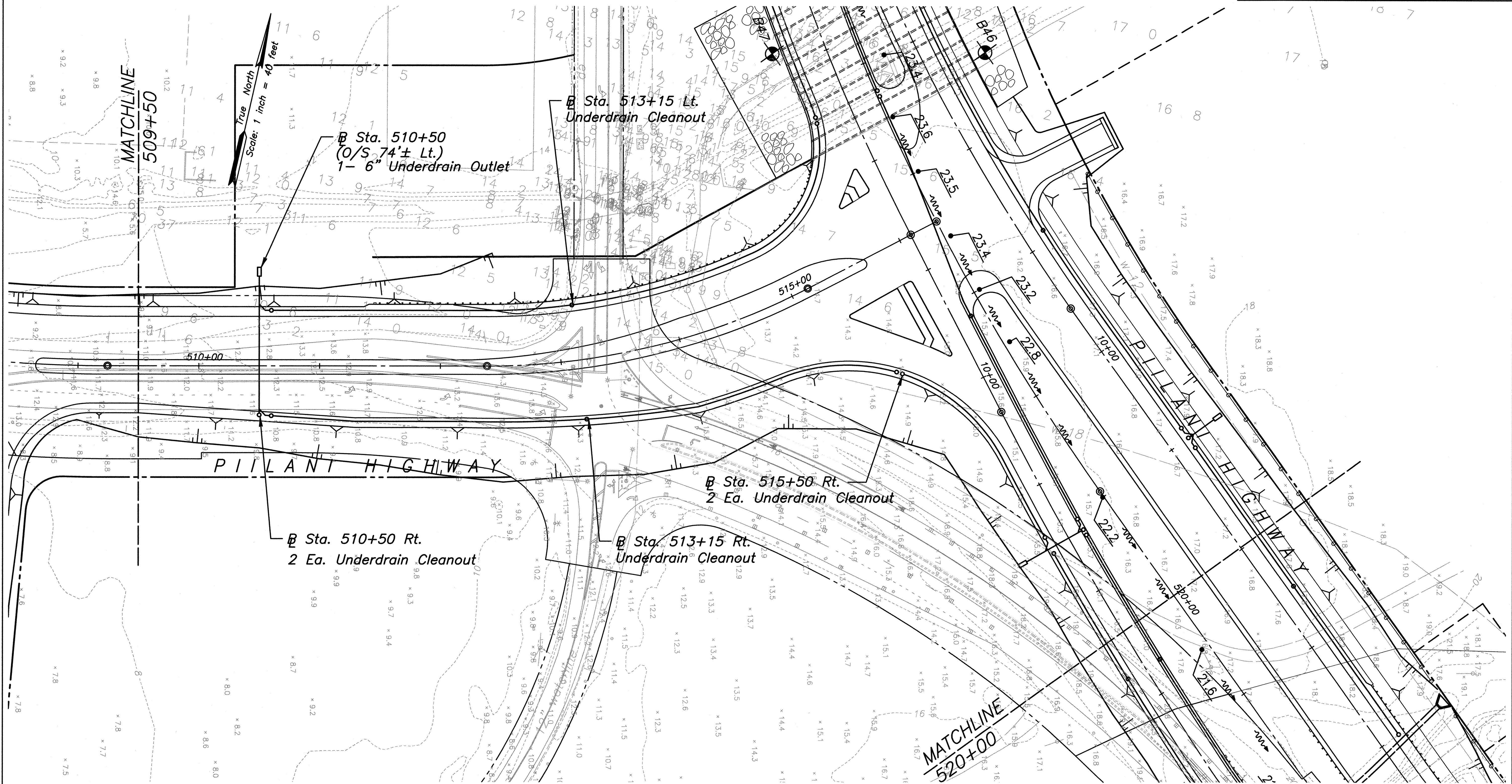
1. For Frame and Grating For 61614P Drain Inlet. See Sht. 63
2. For Underdrain Cleanout and Outlet Details, See Shts. 62 & 64
3. For Drainage Profiles, See Sht. 60
4. For Culvert Trench Section and Headwall Details, See Shts. 63 & 64

ORIGINAL PLAN	DATE
NOTE BOOK	DESIGNED BY
No.	CHECKED BY



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GRADING AND DRAINAGE PLAN
MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=20' Date: July 2005
SHEET No. 6 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	58	180



NOTES:

1. For Frame and Grating For 61614P Drain Inlet. See Sht. 63
2. For Underdrain Cleanout and Outlet Details, See Shts. 62 & 64
3. For Drainage Profiles, See Sht. 60
4. For Culvert Trench Section and Headwall Details, See Shts. 63 & 64

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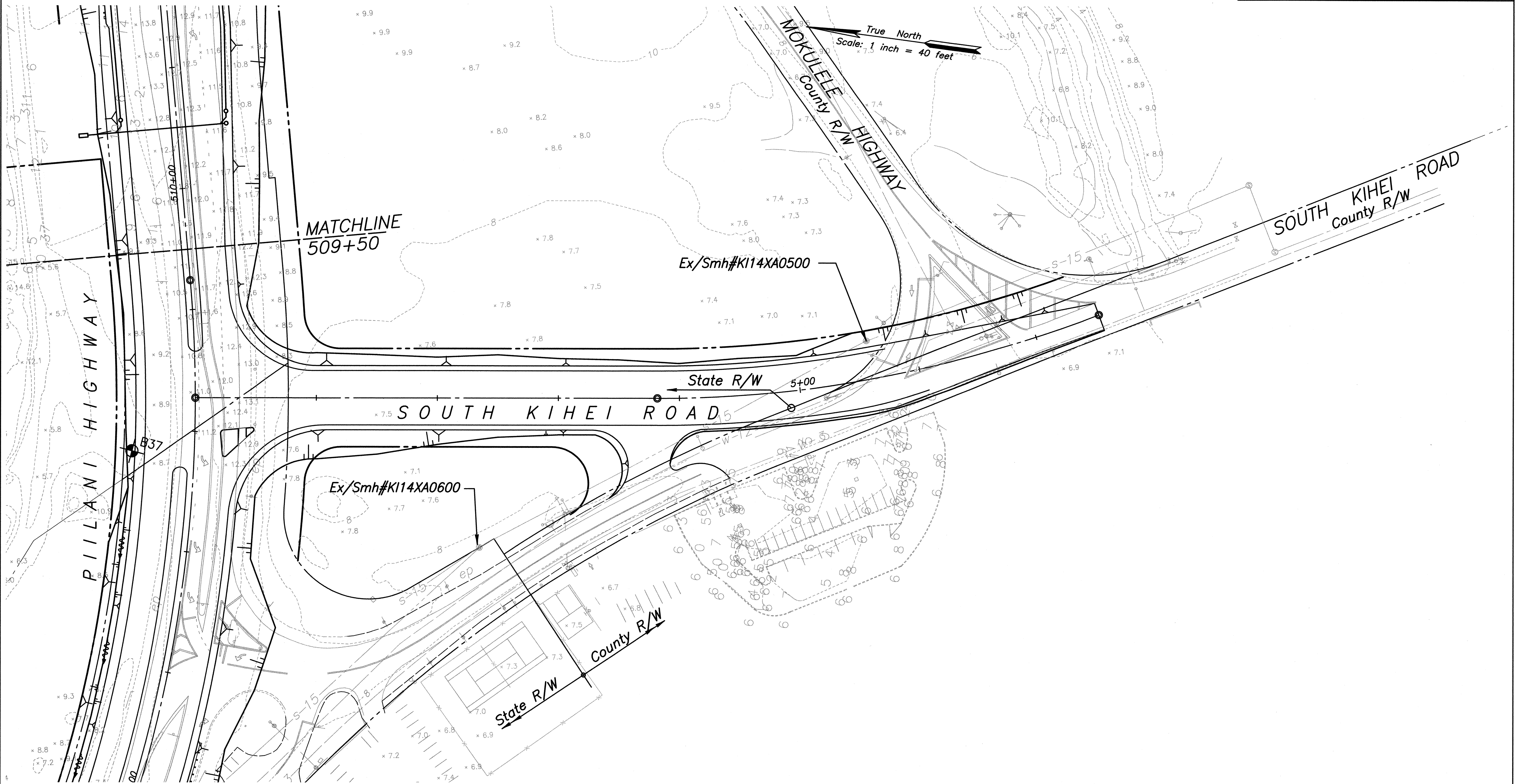
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING AND DRAINAGE PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=40' Date: July 2005

SHEET No. 7 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	59	180



NOTES:

1. For Frame and Grating For 61614P Drain Inlet. See Sht. 63
2. For Underdrain Cleanout and Outlet Details, See Shts. 62 & 64
3. For Drainage Profiles, See Sht. 60
4. For Culvert Trench Section and Headwall Details, See Shts. 63 & 64

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

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SHEET No. 8 OF 8 SHEETS