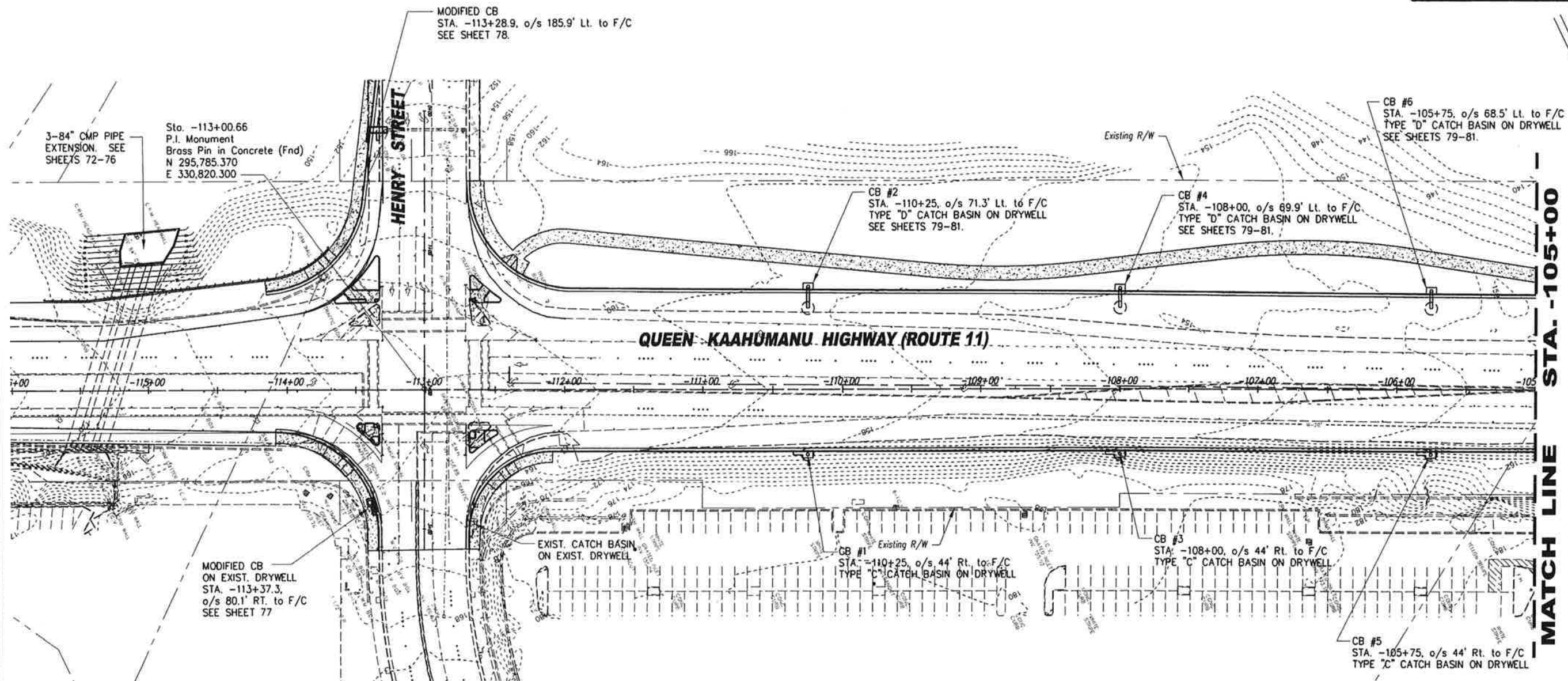
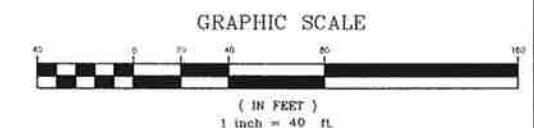


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	58	315



PLAN
Scale: 1"=40'



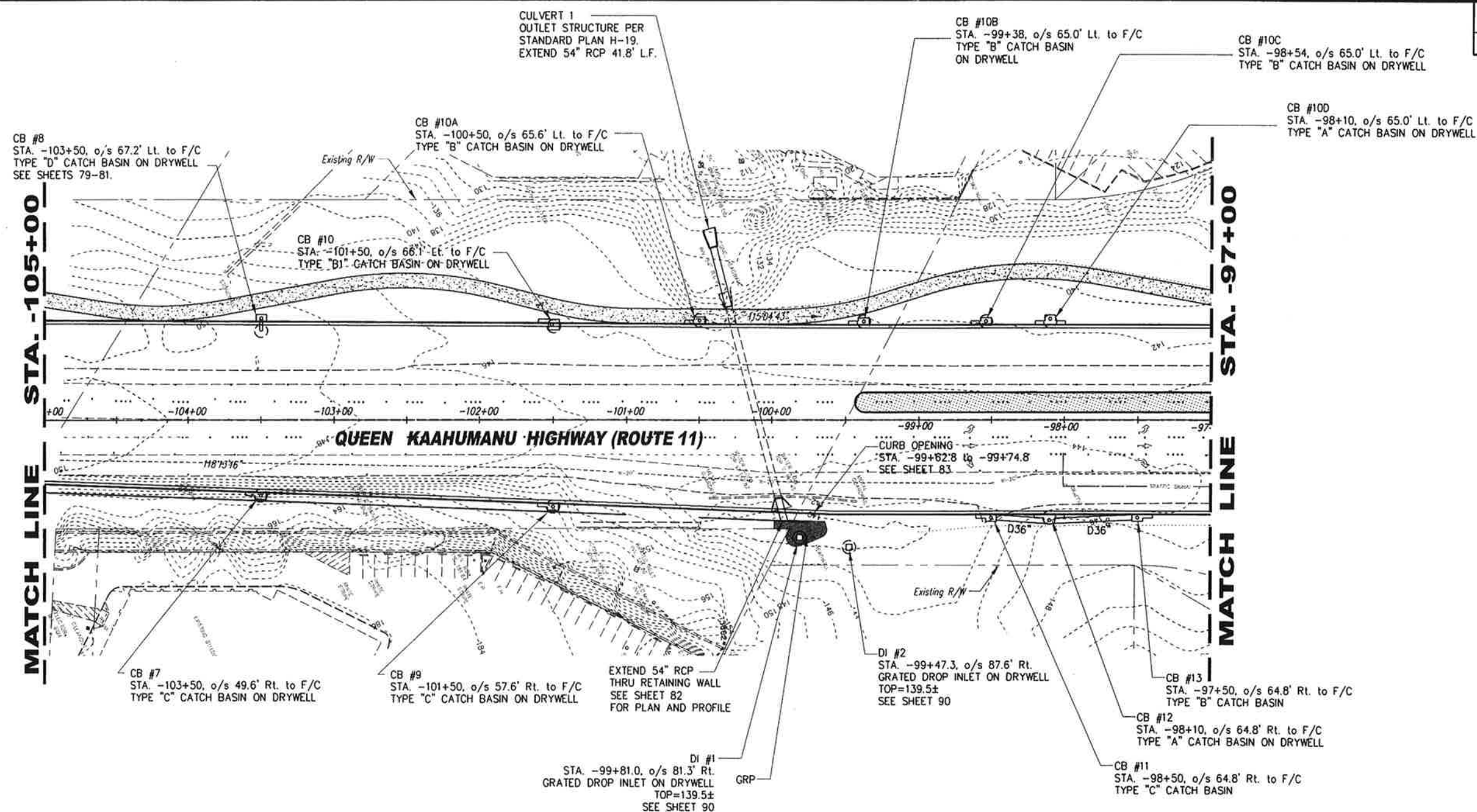
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Neal S. Fukundo
Wesley R. Segawa & Associates, Inc.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

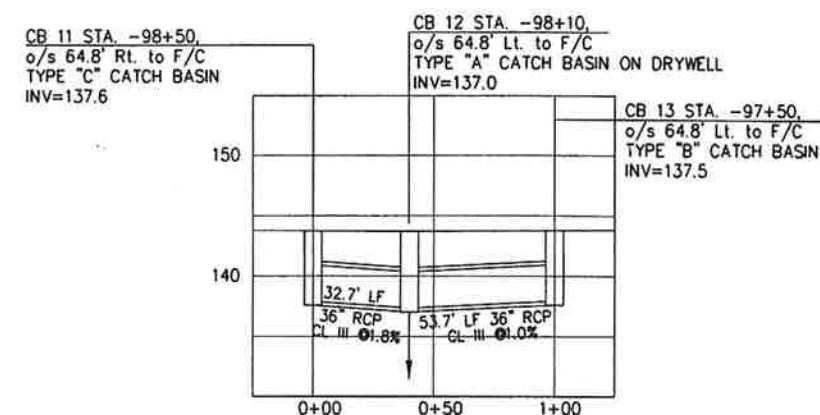
DRAINAGE PLAN
STA -116+00 TO STA. -105+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

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NOTE BOOK	
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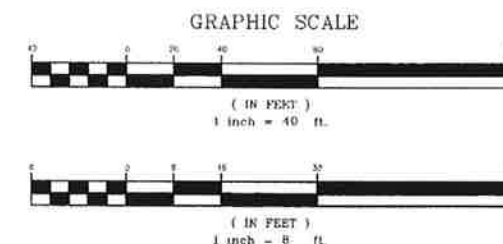
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	59	315



PLAN
Scale: 1"=40'



PROFILE - DRAIN LINE AT STA. -98+50 to -97+50
Scale: Horiz. 1"=40'
Vert. 1"=8'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
STA -105+00 TO STA. -97+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009
SHEET No. 2 OF 14 SHEETS

AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1120	2005	60	316

CB #16
STA. -95+40.1, o/s 128.0' Lt. to F/C
TYPE "B" CATCH BASIN ON DRYWELL
Q=2.2 cfs
SEE SHEET 87.

CB #14
STA. -96+03.3, o/s 91.9' Lt. to F/C
TYPE "B" CATCH BASIN ON DRYWELL
Q=1.2 cfs

CB #15
STA. -96+28.3, o/s 53.3' Lt. to F/C
TYPE "C" CATCH BASIN ON DRYWELL
Q=0.1 cfs
SEE SHEETS 84-86.

CB #17
STA. -95+38.5, o/s 298.08' Lt. to F/C
TYPE "B" CATCH BASIN ON DRYWELL
Q=2.3 cfs

CB #19
STA. 1001+12.3, o/s 91.0' Lt. to F/C
TYPE "C" CATCH BASIN ON DRYWELL
INV=136.5
Q=3.2 cfs

CB #22
STA. 1006+75, o/s 64.8' Lt. to F/C
TYPE "B" CATCH BASIN ON DRYWELL
Q=1.5 cfs

CB #18
STA. 1000+88.5, o/s 17.4' Rt. to F/C
TYPE "C" CATCH BASIN
INV=141.0
Q=0.4 cfs

QUEEN KAAHUMANU HIGHWAY (ROUTE 19)

MATCH LINE STA. -97+00

STA. 1009+00

MATCH LINE

Sta. -94+93.41 (Back)
= Sta. 1000+00 (Ahead)
P.I. Monument
Bross Pin in Concrete (Fnd)
N 296.578.070
E 329.196.180
Elev. 145.79

CB #20
STA. 1002+50, o/s 65' Rt. to F/C
TYPE "A" CATCH BASIN ON DRYWELL
Q=2.1 cfs

CB 18 STA. 1000+88.5,
o/s 17.4' Rt. to F/C
TYPE "C" CATCH BASIN
INV=141.0

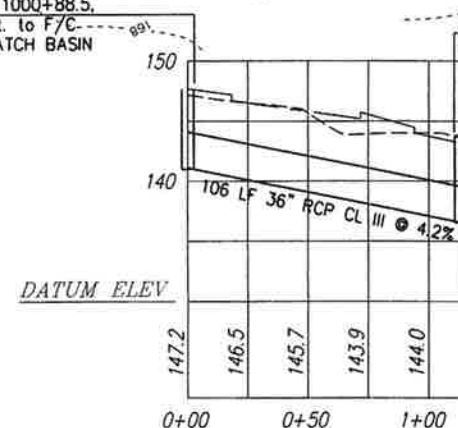
CB #21
STA. 1007+75, o/s 56.4' Rt. to F/C
TYPE "C" CATCH BASIN ON DRYWELL
Q=1.6 cfs

CB 19 STA. 1001+12.3,
o/s 91.0' Lt. to F/C
TYPE "C" CATCH BASIN ON DRYWELL
INV=136.5

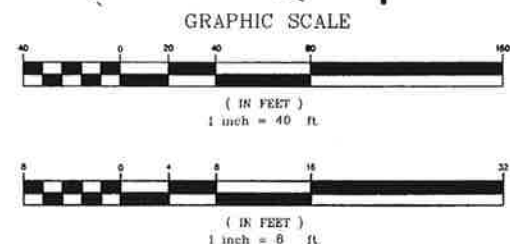
CB #13A
STA. -96+50, o/s 5.2' Lt. to F/C
TYPE "C" CATCH BASIN ON DRYWELL
Q=0.6 cfs

CB
STA. -95+73.5, o/s 127.8' Rt. to F/C
TYPE "B" CATCH BASIN ON DRYWELL

PLAN
Scale: 1"=40'



PROFILE - DRAIN LINE AT STA. 1001+00
Scale: Horiz. 1"=40'
Vert. 1"=8'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
STA -97+00 TO STA. 1009+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1120
Scale: As Noted Date: November 2009

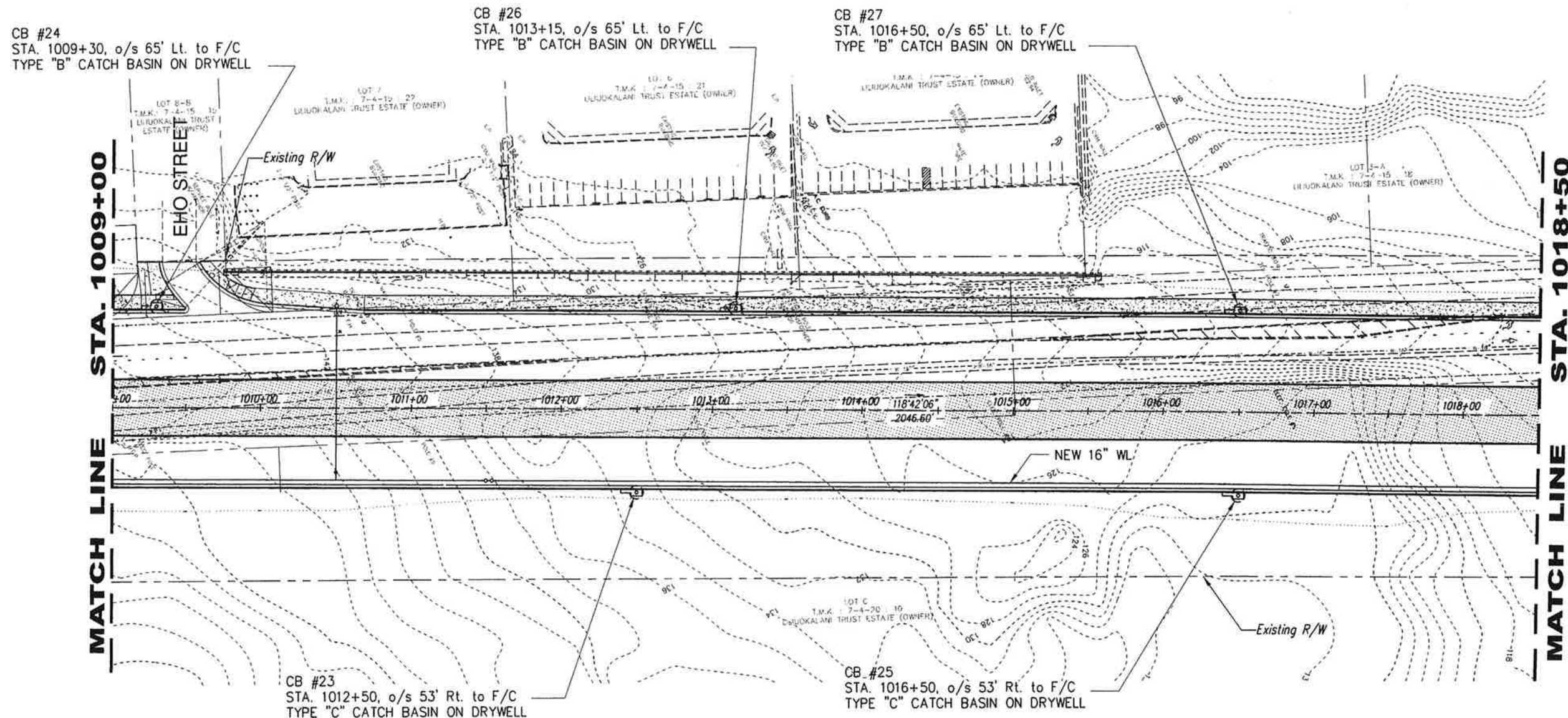
SHEET No. 3 OF 14 SHEETS

AS-BUILT

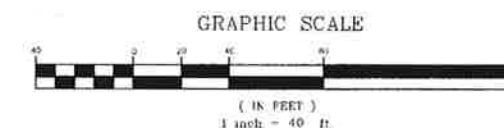
60

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CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	61	315



PLAN
Scale: 1"=40'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
STA 1009+00 TO STA. 1018+50
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

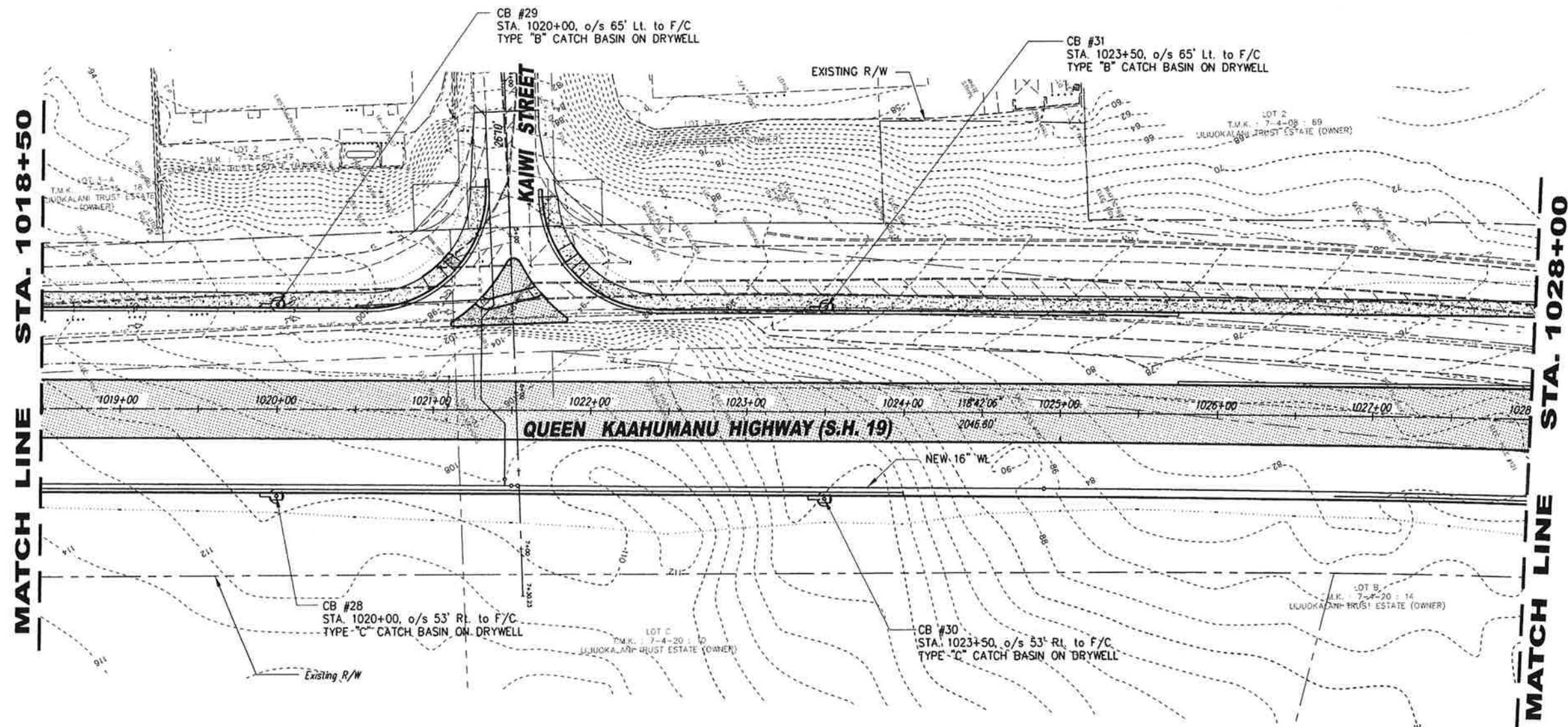
SHEET No. 4 OF 14 SHEETS

AS-BUILT

61

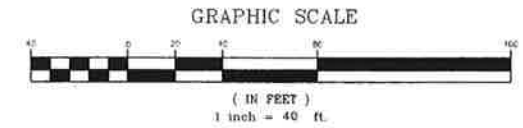
SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
DATE	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2006	62	316



PLAN
Scale: 1"=40'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	TRACED BY	
	DESIGNED BY	
	CHECKED BY	

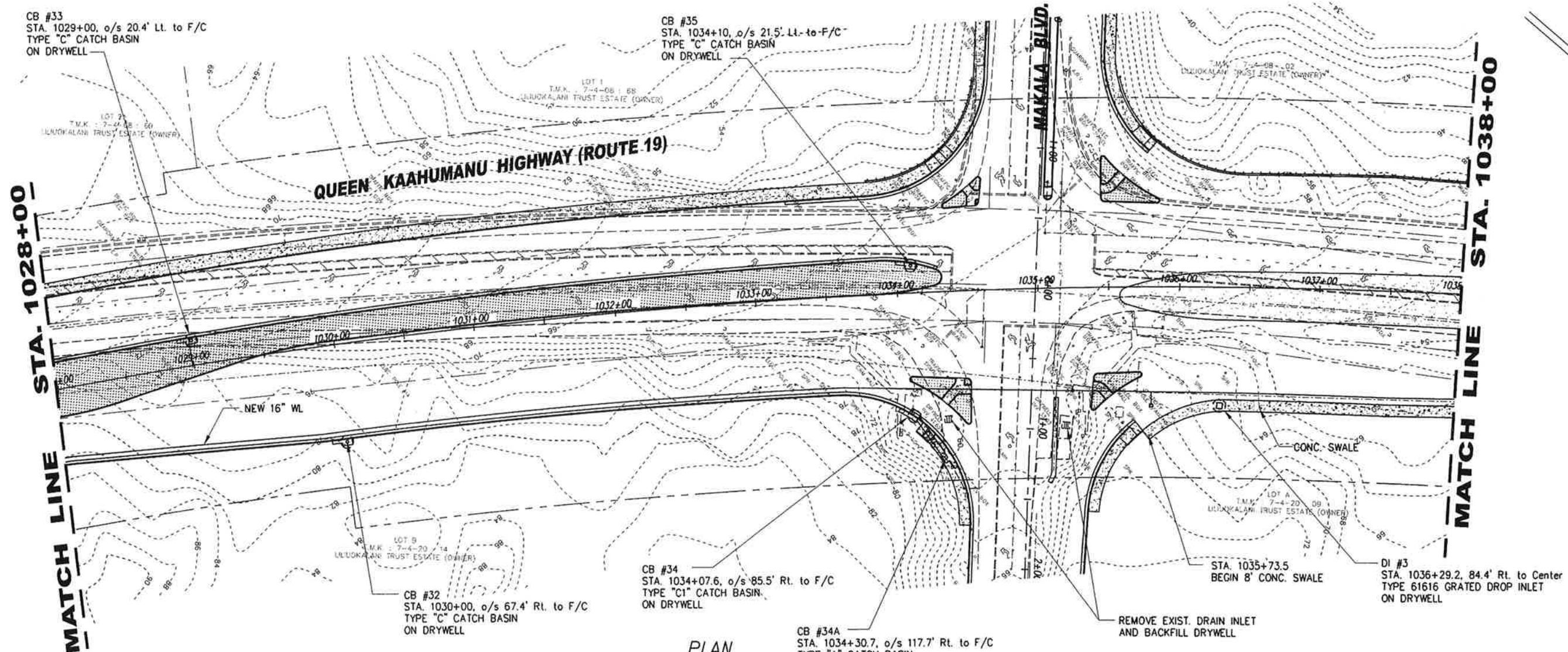


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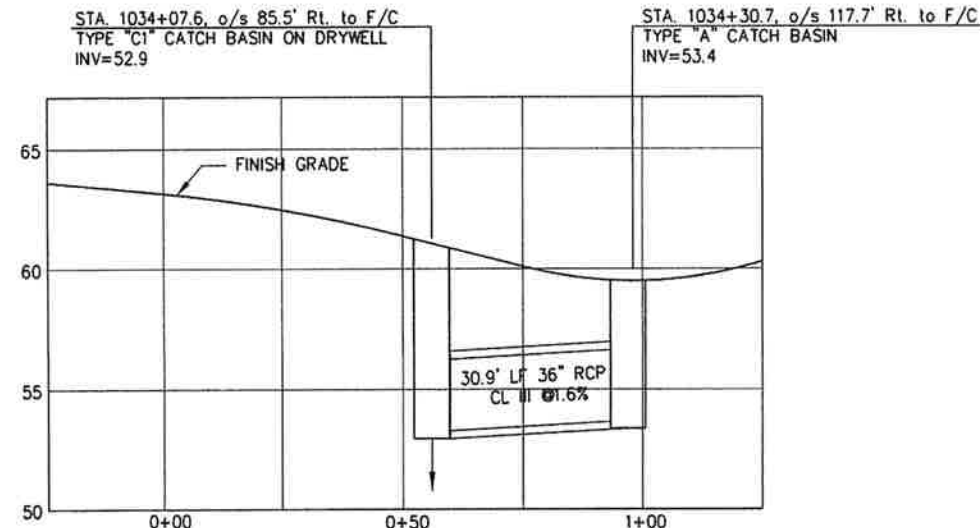
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
STA 1018+50 TO STA. 1028+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	63	315



PLAN
Scale: 1"=40'



PROFILE - DRAIN LINE AT STA. 1034+07.6
Scale: Horiz. 1"=20'
Vert. 1"=4'

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
NOTE BOOK	_____
CHECKED BY	_____

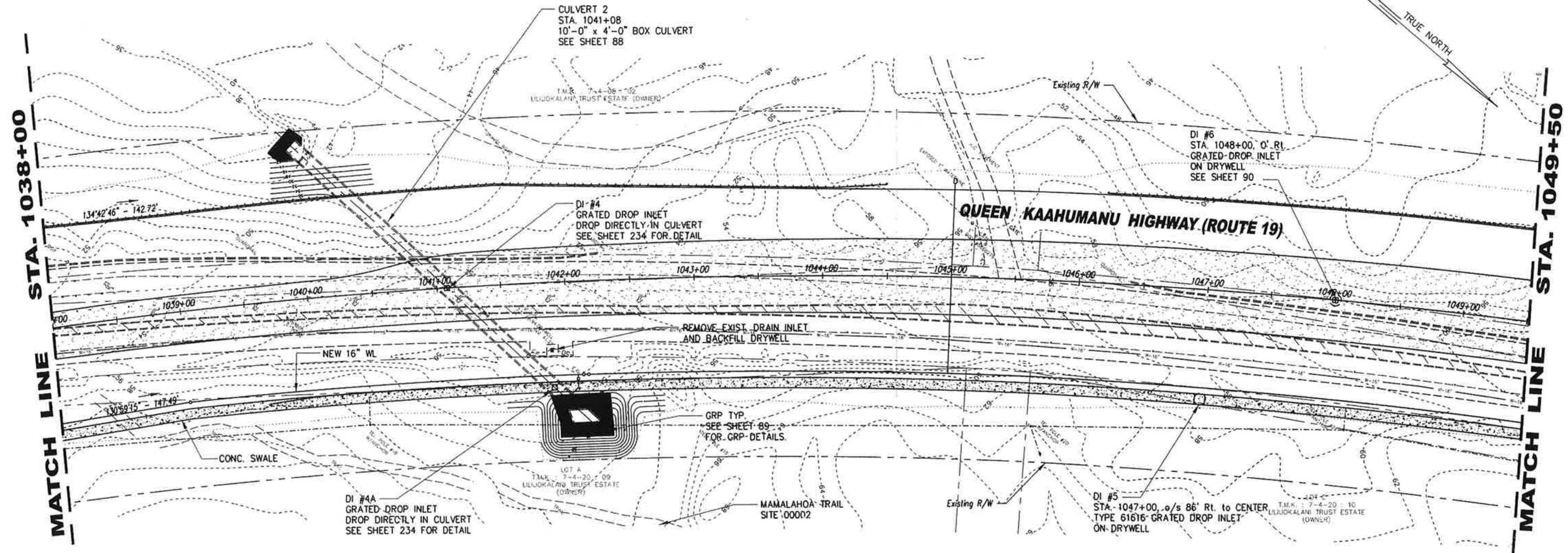


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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
STA 1028+00 TO STA. 1038+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009
SHEET No. 6 OF 14 SHEETS

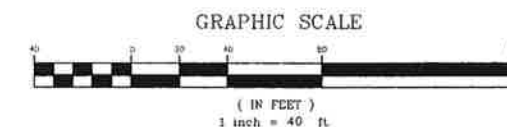
AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	64	315



PLAN
Scale: 1"=40'

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



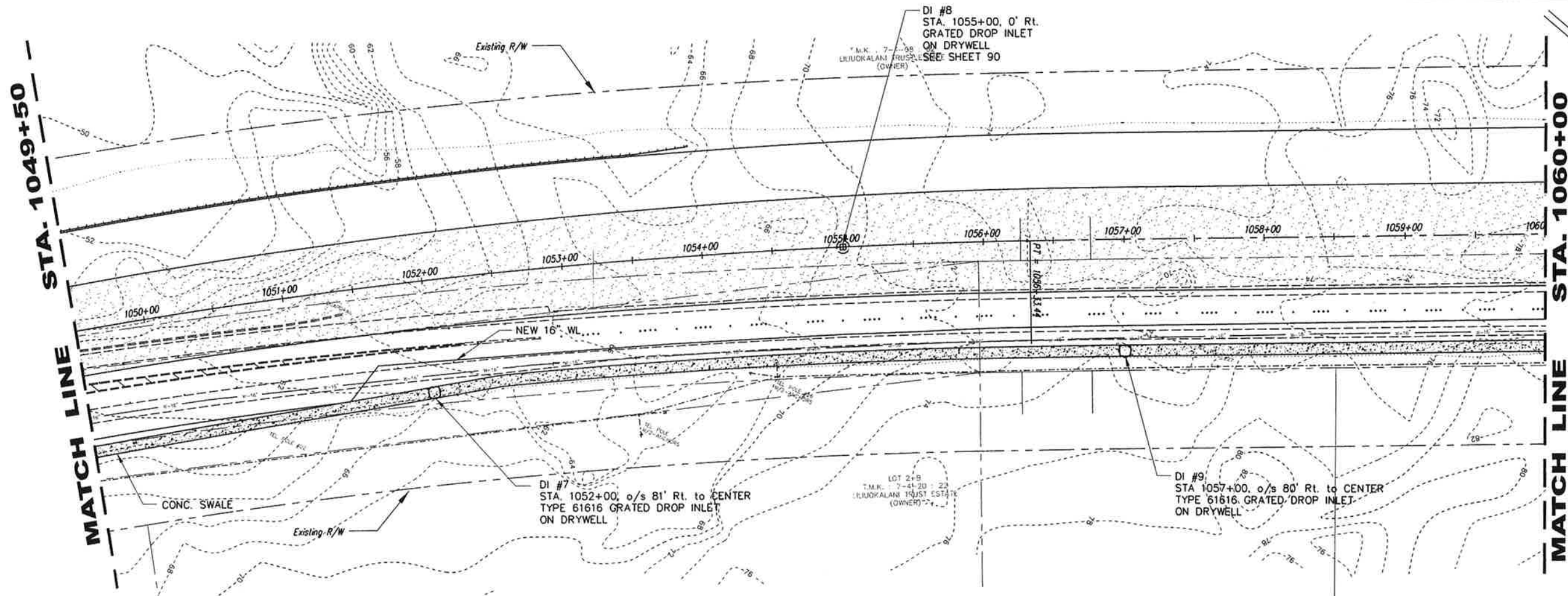
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HIGHWAYS DIVISION

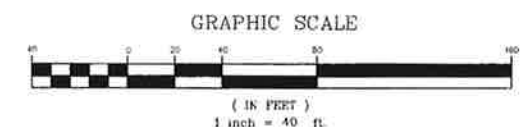
DRAINAGE PLAN
STA 1038+00 TO STA. 1049+50
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2006	65	315



PLAN
Scale: 1"=40'

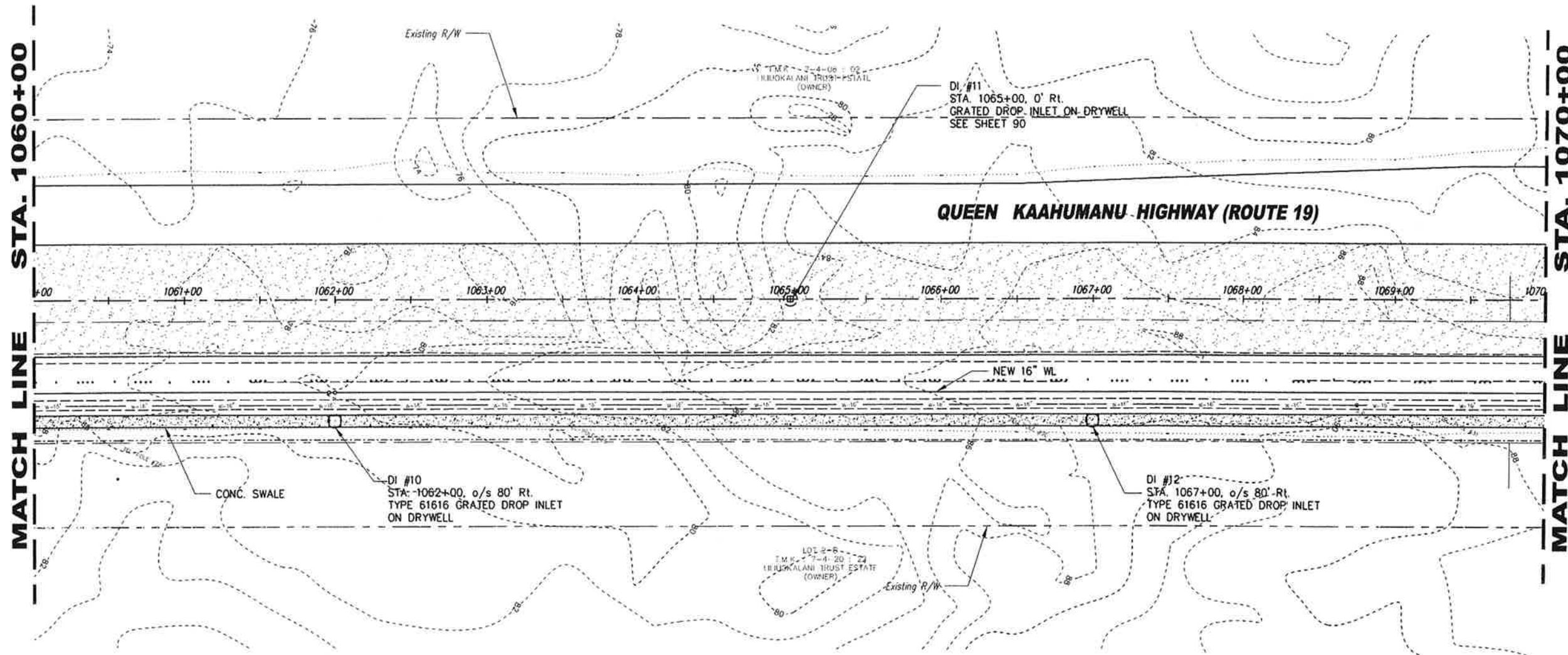


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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
STA 1049+50 TO STA. 1060+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

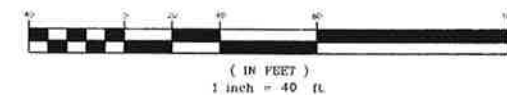
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	66	315



PLAN
Scale: 1"=40'

GRAPHIC SCALE



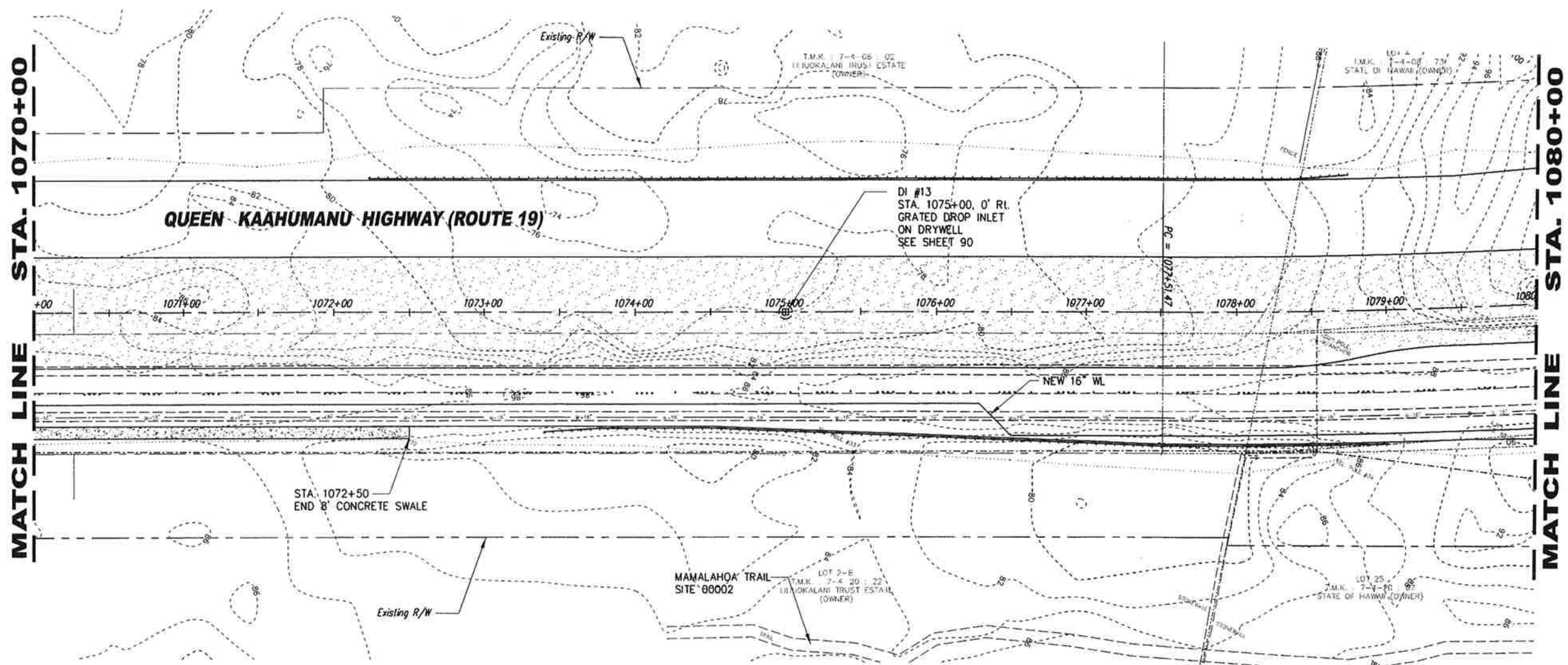
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HIGHWAYS DIVISION

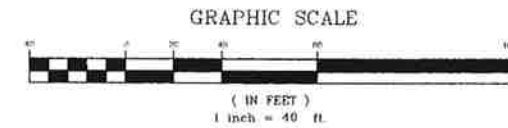
DRAINAGE PLAN
STA 1060+00 TO STA. 1070+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

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ORIGINAL PLAN	
NOTE BOOK	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	67	315



PLAN
Scale: 1"=40'

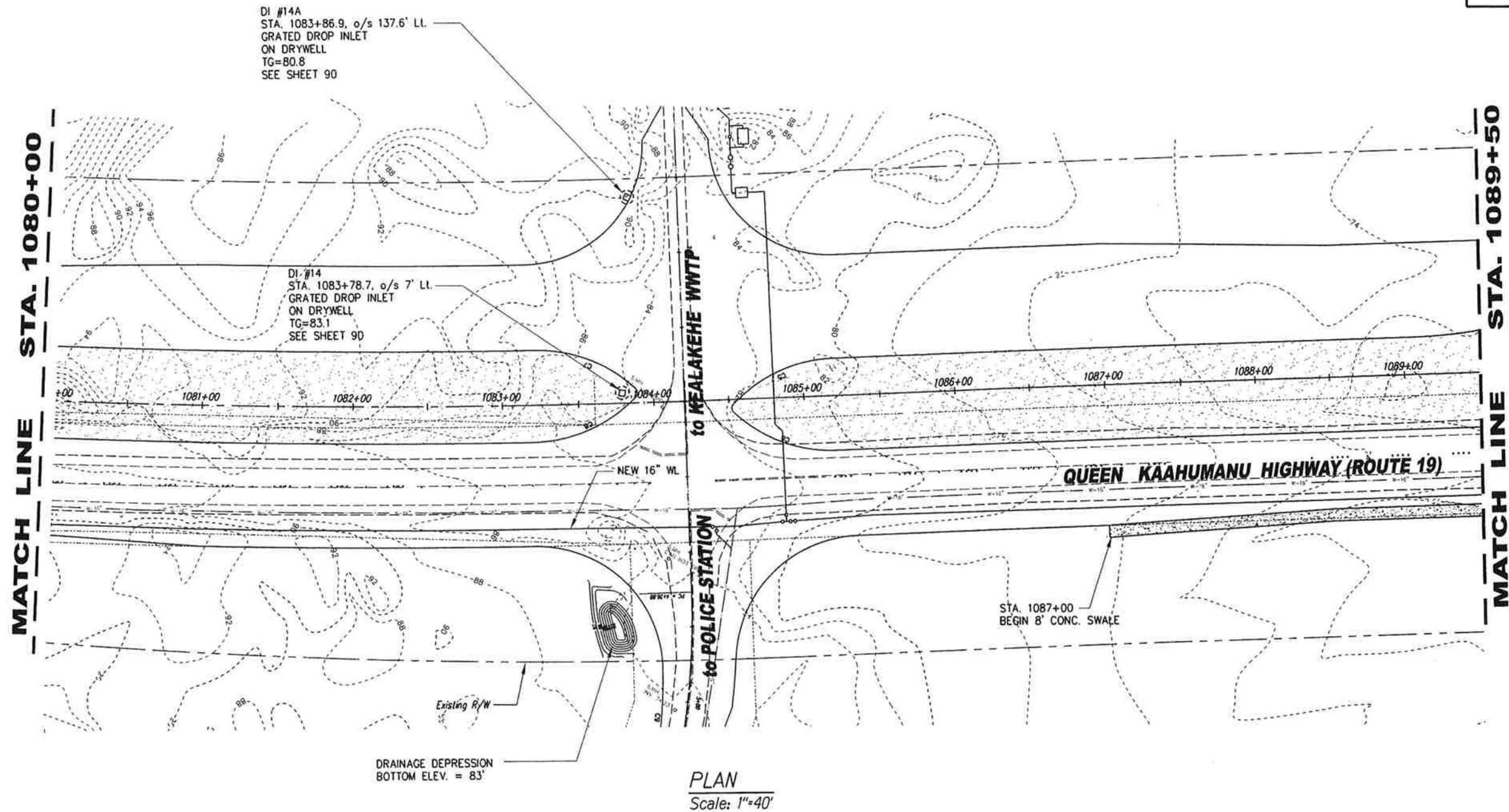


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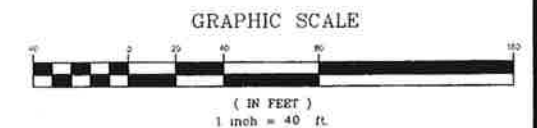
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
STA 1070+00 TO STA. 1080+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	68	315



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CHECKED BY	



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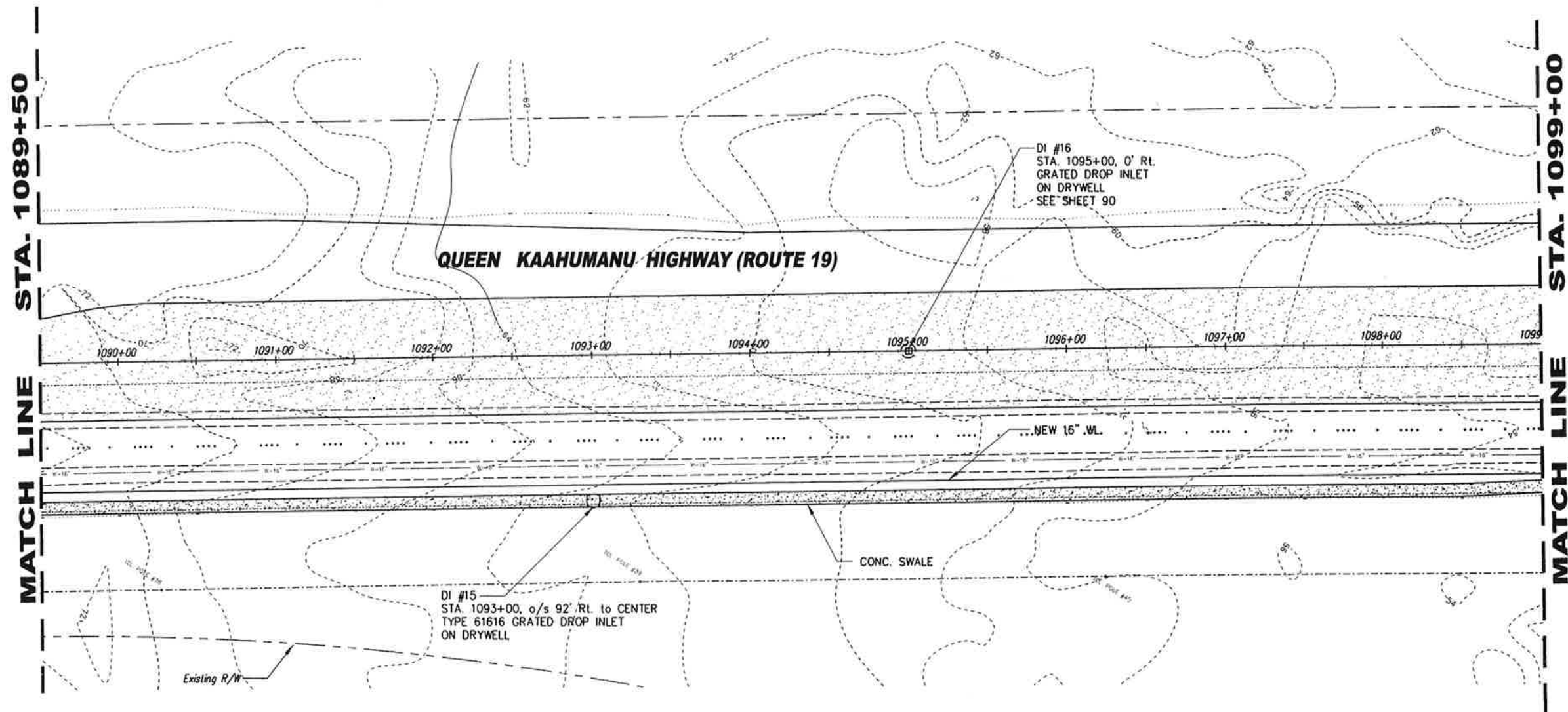
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
STA 1080+00 TO STA. 1089+50
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

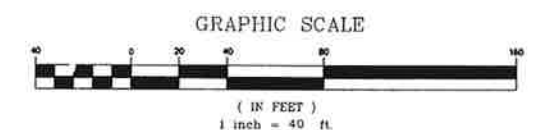
SHEET No. 11 OF 14 SHEETS

AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	69	315



PLAN
Scale: 1"=40'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
STA 1089+50 TO STA. 1099+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

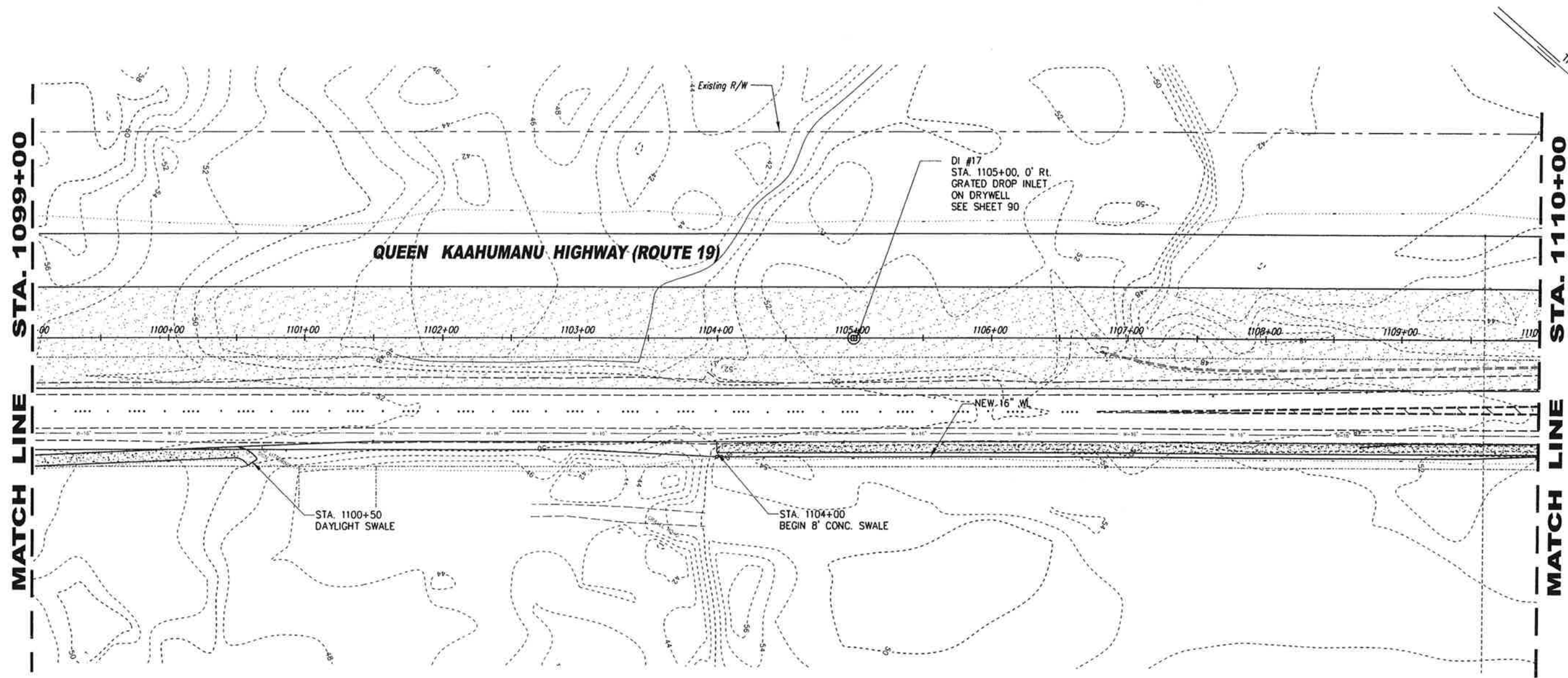
SHEET No. 12 OF 14 SHEETS

AS-BUILT

69

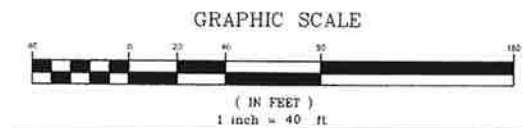
ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
DATE	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	70	315



PLAN
Scale: 1"=40'

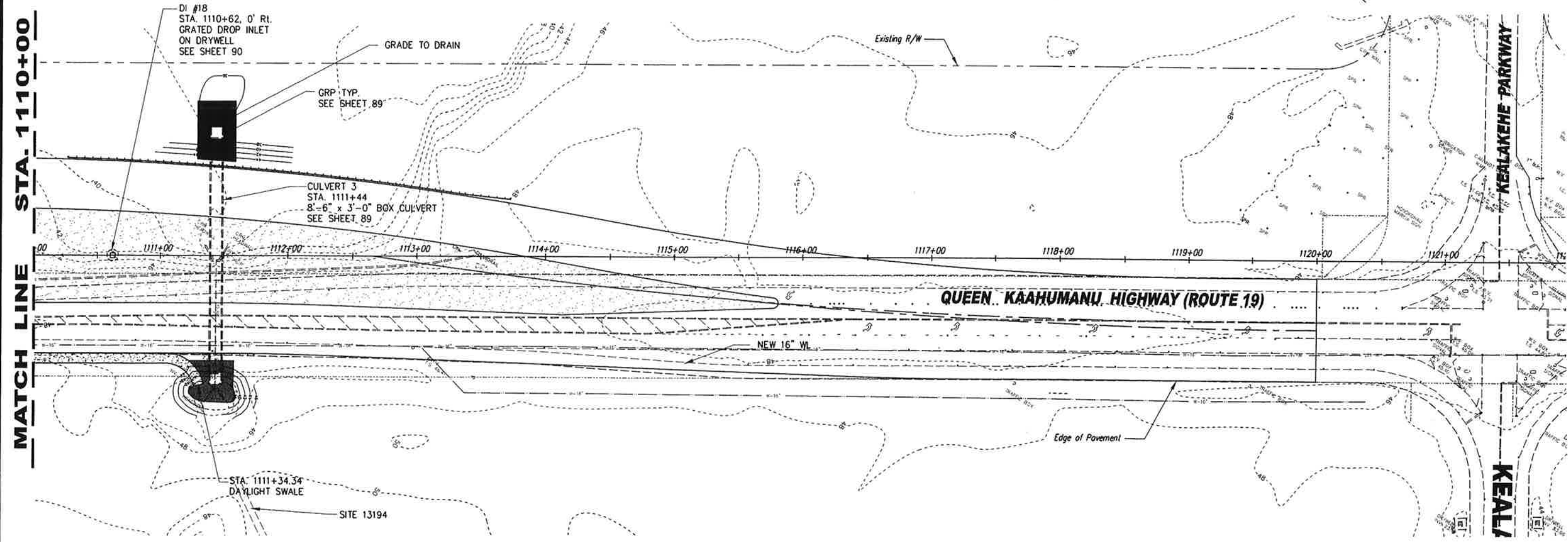
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DATE	



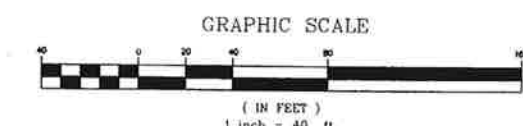
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Wesley R. Segawa & Associates, Inc.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
STA 1099+00 TO STA. 1110+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(20)	2005	71	315



PLAN
Scale: 1"=40'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN
STA 1110+00 TO STA. 1121+00
QUEEN KAAHUMANU HIGHWAY WIDENING
HENRY ST. to KEALAKEHE PKWY - PHASE I
Federal Aid Project No. NH-019-1(20)
Scale: As Noted Date: November 2009
SHEET No. 14 OF 14 SHEETS

ORIGINAL PLAN	DATE
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QUANTITIES BY	
DATE	

AS-BUILT