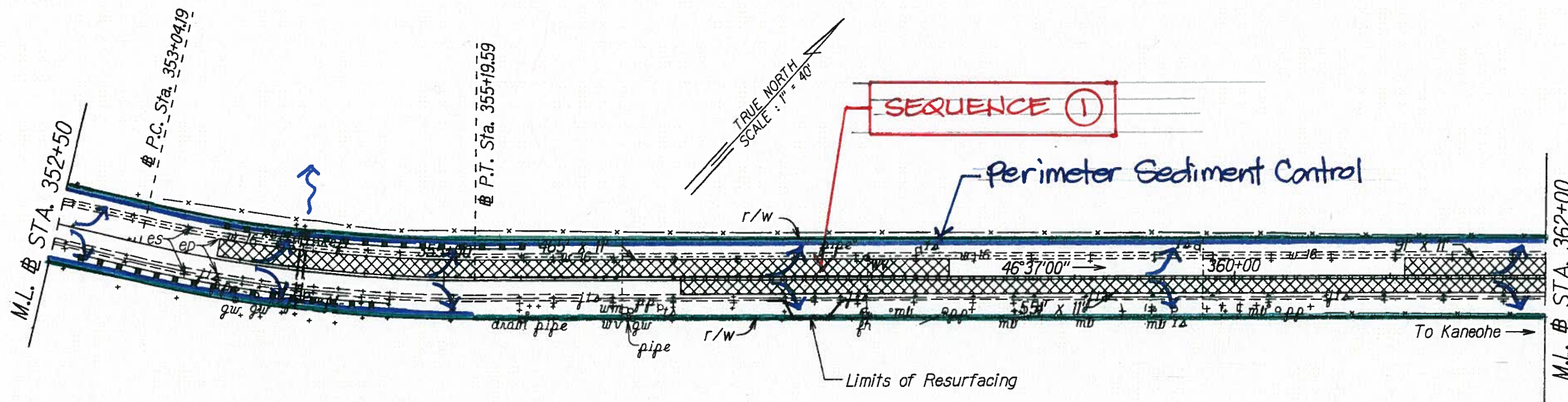
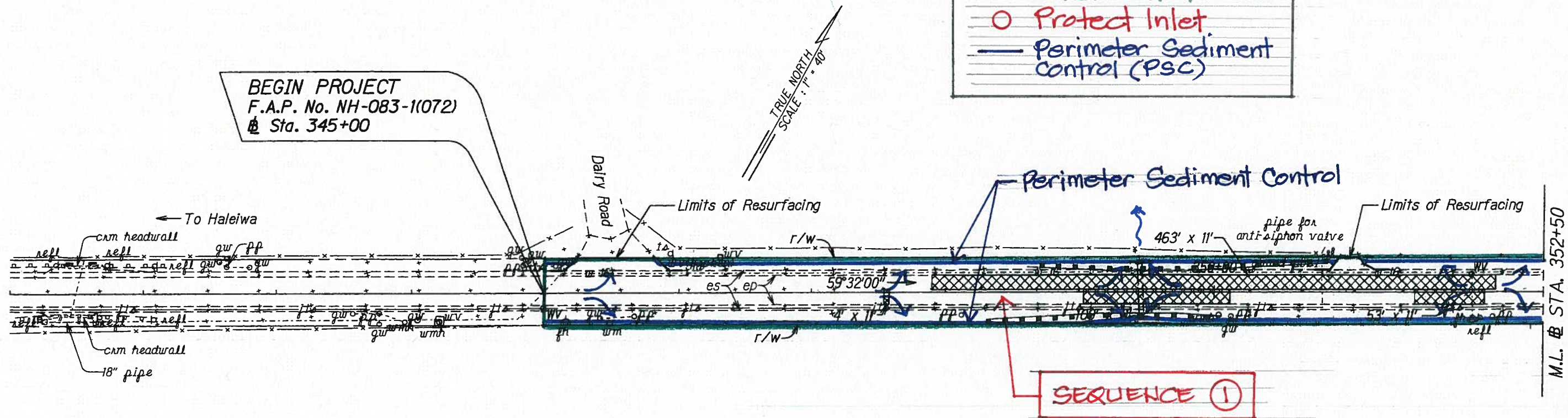


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0

LEGEND:

- Construction Limits
- Protect Inlet
- Perimeter Sediment Control (PSC)

BEGIN PROJECT
F.A.P. No. NH-083-1(072)
Sta. 345+00



① CONSTRUCTION SEQUENCE DIAGRAM Sta. 345+00 to Sta. 400+00

- Install Perimeter Sediment Control and Inlet Protection 3-A and 3-B
- Construct Roadway
- Remove all BMPs once roadway construction is completed.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTE BOOK	
003.11/160	
10/20/10/10	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

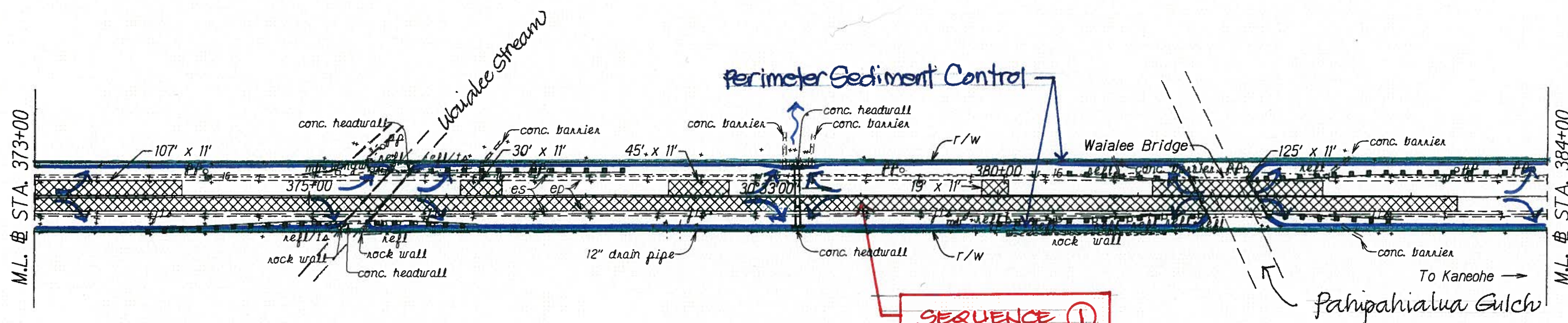
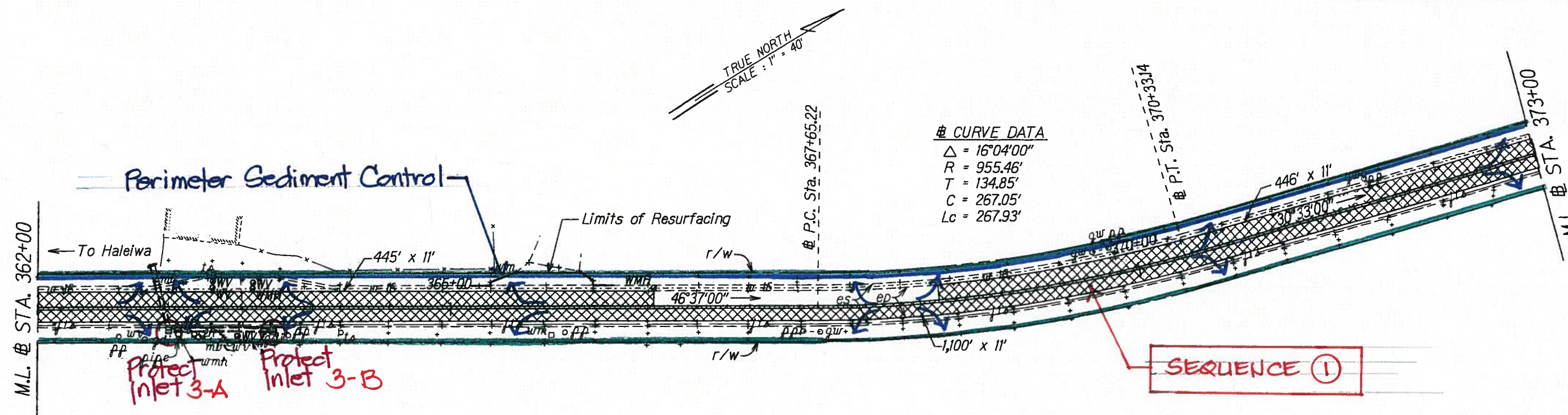
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Lalewai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 1 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	NH-083-1(072)	2014	0	0



- ① CONSTRUCTION SEQUENCE DIAGRAM
Sta. 345+00 to Sta. 400+00
- A. Install Perimeter Sediment Control and Inlet Protection 3-A & 3-B
 - B. Construct Roadway
 - C. Remove all BMP's once roadway construction is completed except the PSC from Sta. 400+00 to Sta. 402+60±.

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY <u>X</u>	<u>X</u>
dd311iteG	TRACED BY _____	_____
N. 21m1ndgn	DESIGNED BY <u>X</u>	_____
	QUANTITIES BY _____	_____
	CHECKED BY _____	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

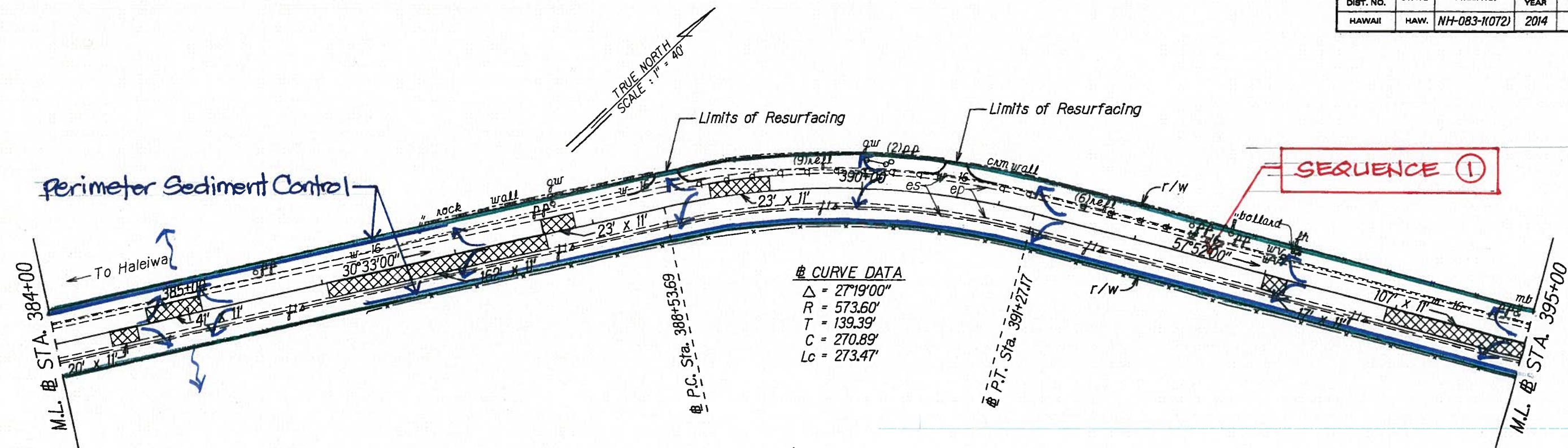
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal Aid Project No. NH-083-1(072)

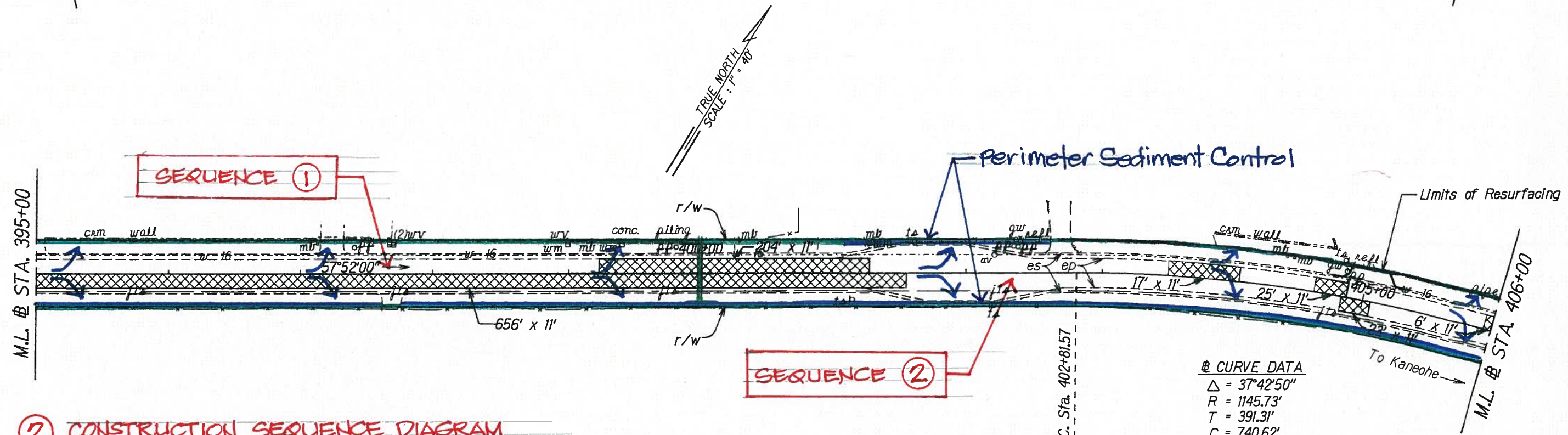
Scale: 1" = 40' Date: March, 2014

SHEET No. 2 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



CURVE DATA
 $\Delta = 27^{\circ}19'00''$
 $R = 573.60'$
 $T = 139.39'$
 $C = 270.89'$
 $Lc = 273.47'$



CURVE DATA
 $\Delta = 37^{\circ}42'50''$
 $R = 1145.73'$
 $T = 391.31'$
 $C = 740.62'$
 $Lc = 754.16'$

- ② CONSTRUCTION SEQUENCE DIAGRAM
Sta. 400+00 to Sta. 455+00
- A. Install Perimeter Sediment Control
 - B. Construct Roadway
 - C. Remove all BMP's once roadway construction is completed.

SURVEY PLANNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTES BOOK	
NO. 2100000	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

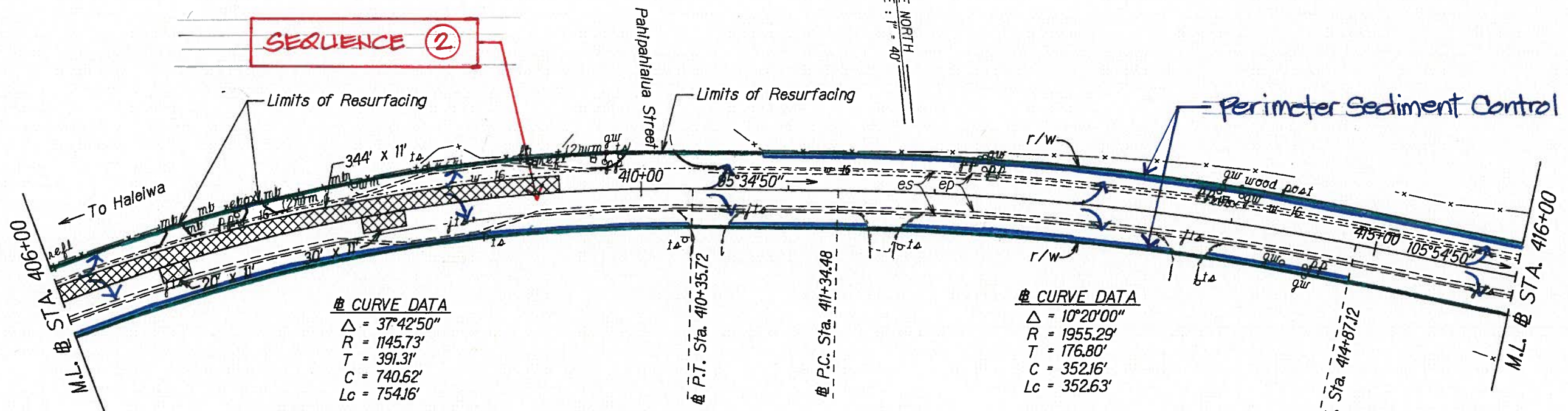
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 3 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



② CONSTRUCTION SEQUENCE DIAGRAM Sta. 400+00 to Sta. 455+00

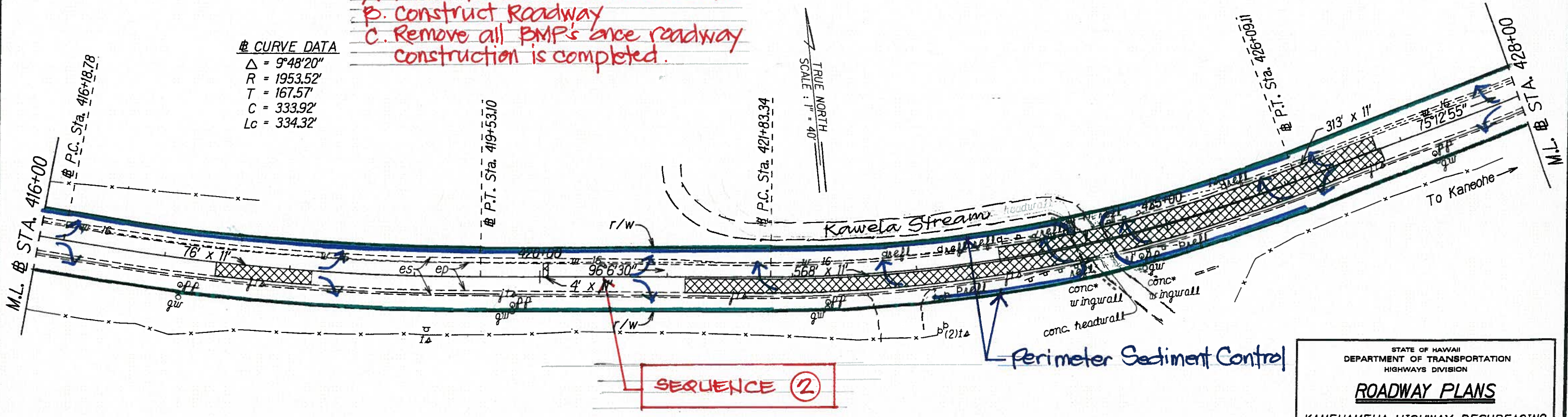
A. Install Perimeter Sediment Control

B. Construct Roadway

C. Remove all BMP's once roadway construction is completed.

Curve Data

- $\Delta = 9^\circ 48' 20''$
- $R = 1953.52'$
- $T = 167.57'$
- $C = 333.92'$
- $Lc = 334.32'$



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

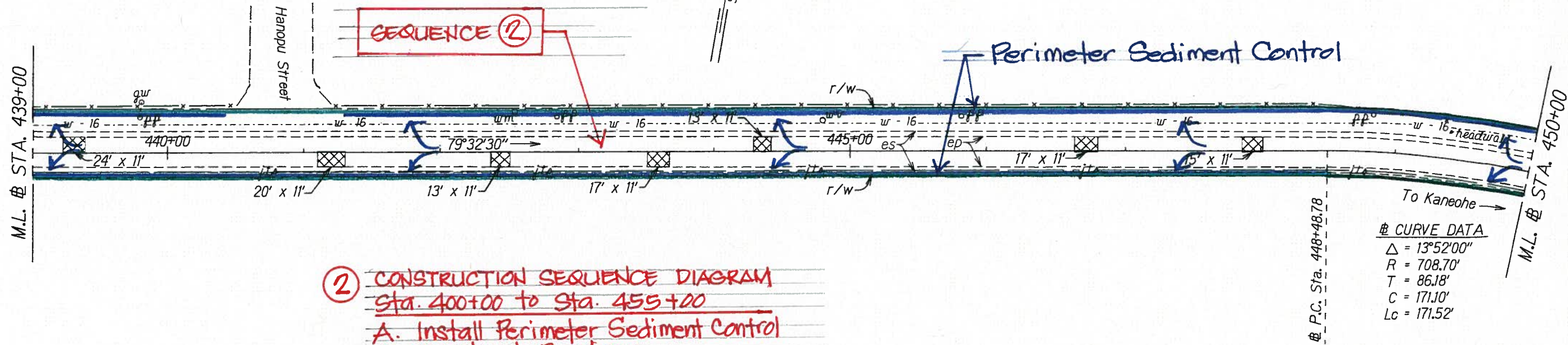
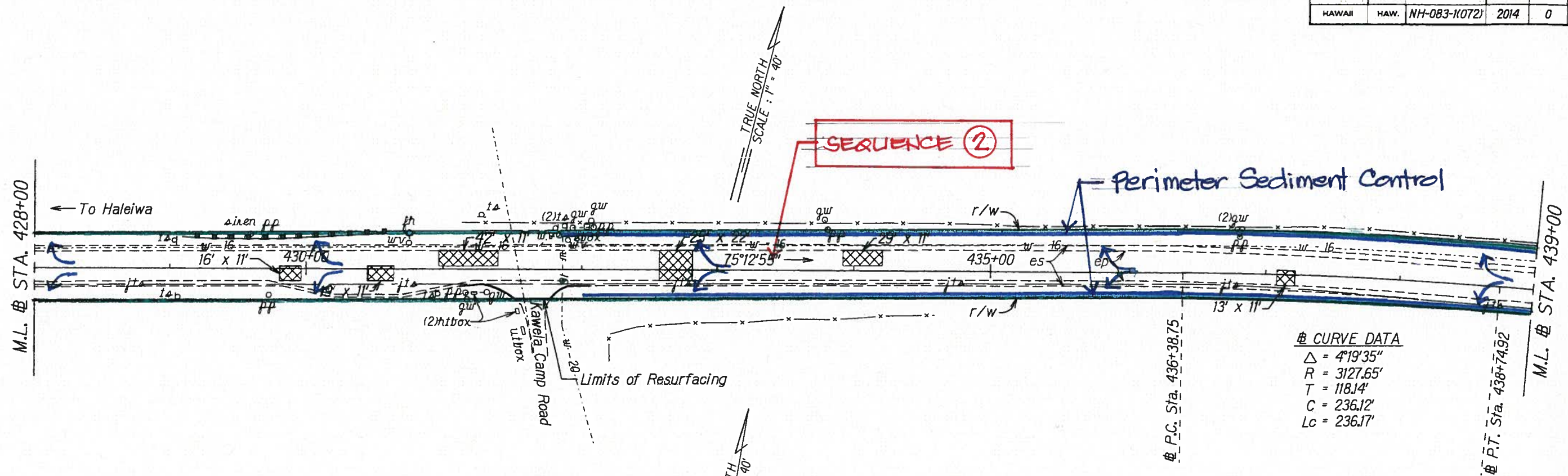
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Lalewai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 4 OF 20 SHEETS

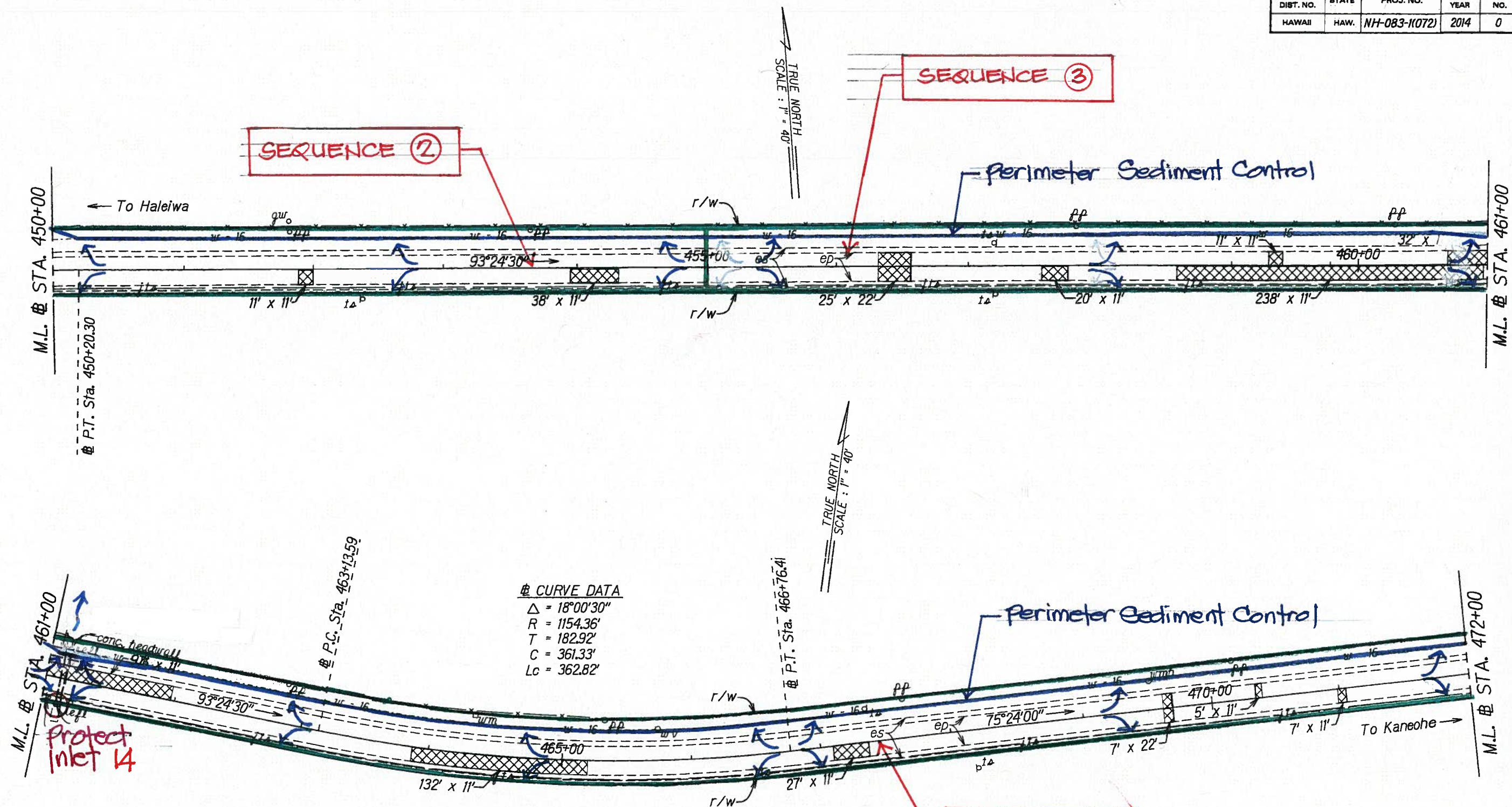
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTES BOOK	
663.41166	
N. 2100.000	



- ② CONSTRUCTION SEQUENCE DIAGRAM**
 Sta. 400+00 to Sta. 455+00
- Install Perimeter Sediment Control
 - Construct Roadway
 - Remove all BMP's once roadway construction is completed.

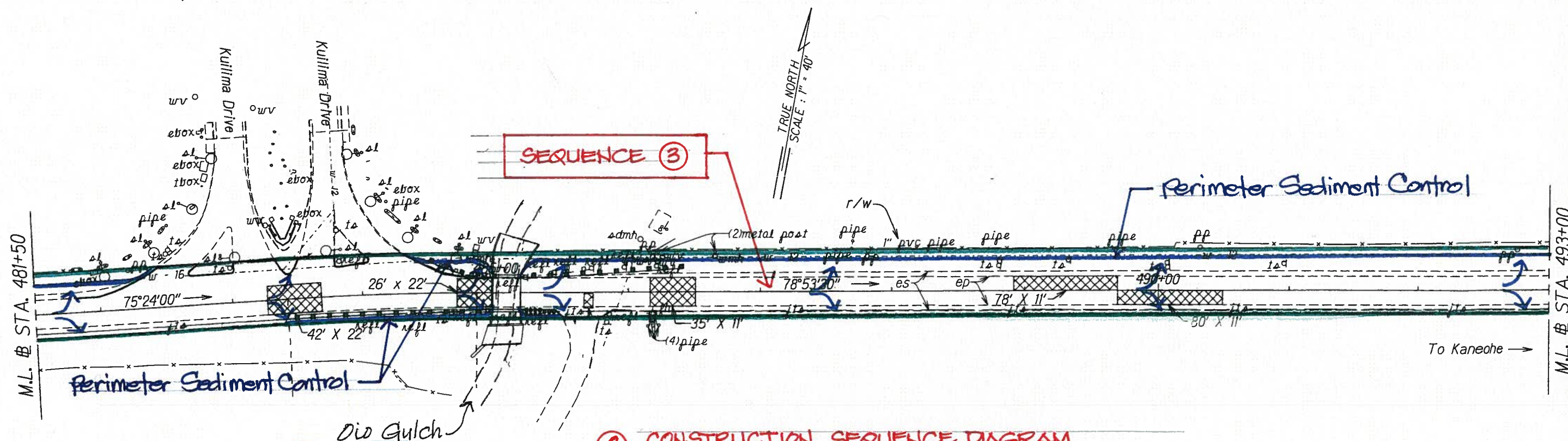
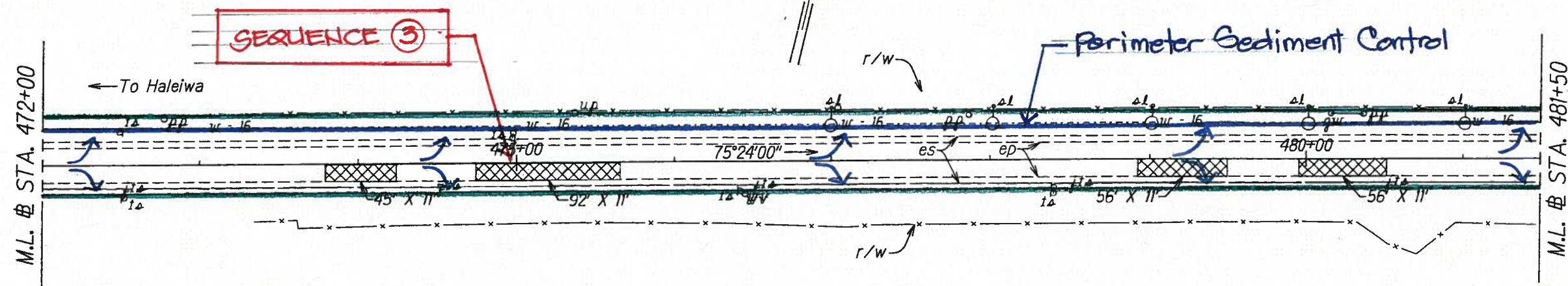
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	
DESIGNED BY	CHECKED BY	
IN: 2/1/14		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



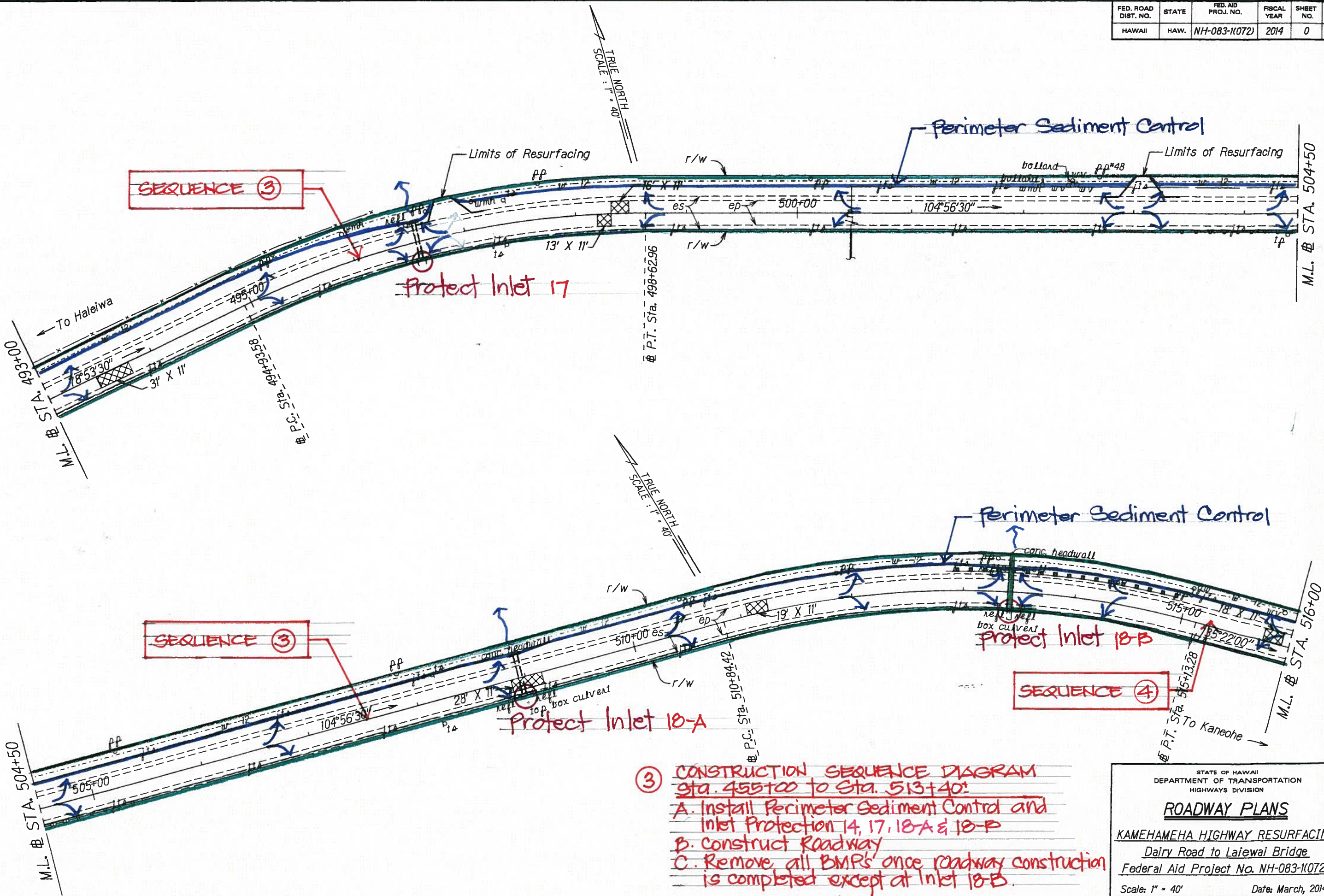
- ③ CONSTRUCTION SEQUENCE DIAGRAM
Sta. 455+00 to Sta. 513+40±
- Install Perimeter Sediment Control and Inlet Protection 14, 17, 18-A & 18-B
 - Construct Roadway
 - Remove all BMPs once roadway construction is completed except at Inlet 18-B.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PLANS	
KAMEHAMEHA HIGHWAY RESURFACING Dairy Road to Lāwāi Bridge Federal Aid Project No. NH-083-1(072)	
Scale: 1" = 40'	Date: March, 2014
SHEET No. 6 OF 20 SHEETS	



- ③ CONSTRUCTION SEQUENCE DIAGRAM**
Sta. 455+00 to Sta. 513+40:
- Install Perimeter Sediment Control and Inlet Protection 14, 17, 18-A & 18-B
 - Construct Roadway
 - Remove all BMPs once roadway construction is completed except at Inlet 18-B.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



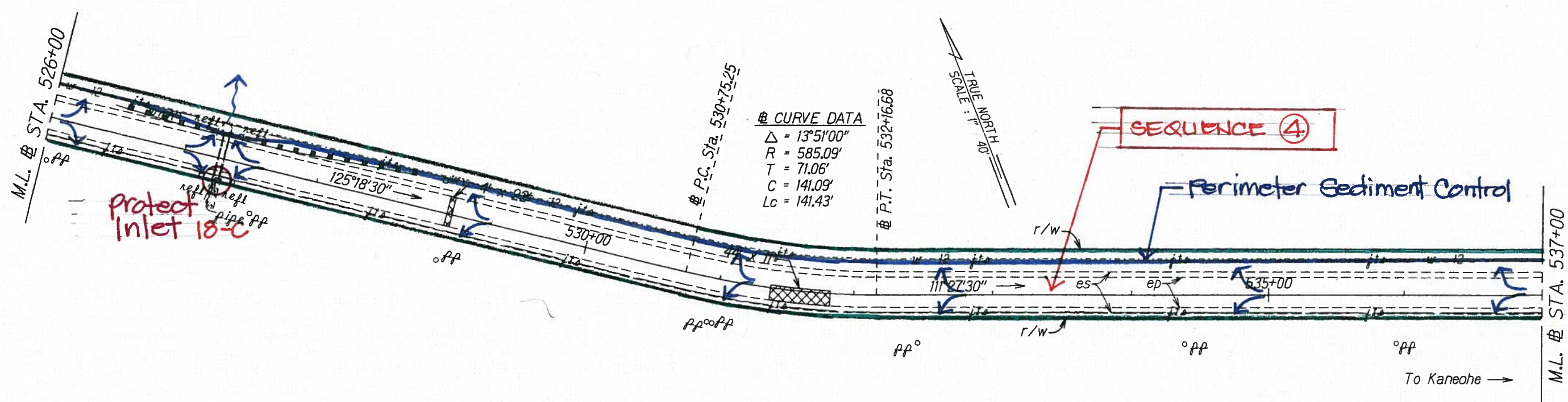
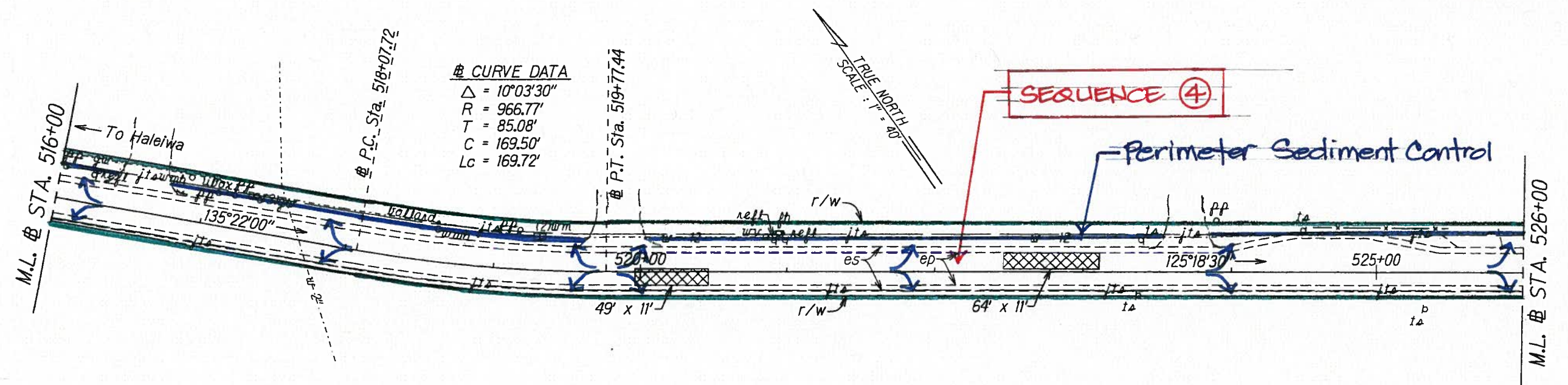
- ③ CONSTRUCTION SEQUENCE DIAGRAM
Sta. 455+00 to Sta. 513+40:
- A. Install Perimeter Sediment Control and Inlet Protection 14, 17, 18-A & 18-B
 - B. Construct Roadway
 - C. Remove all BMP's once roadway construction is completed except at Inlet 18-B.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiawai Bridge
Federal Aid Project No. NH-083-1(072)
Scale: 1" = 40'
Date: March, 2014

SHEET No. 8 OF 20 SHEETS

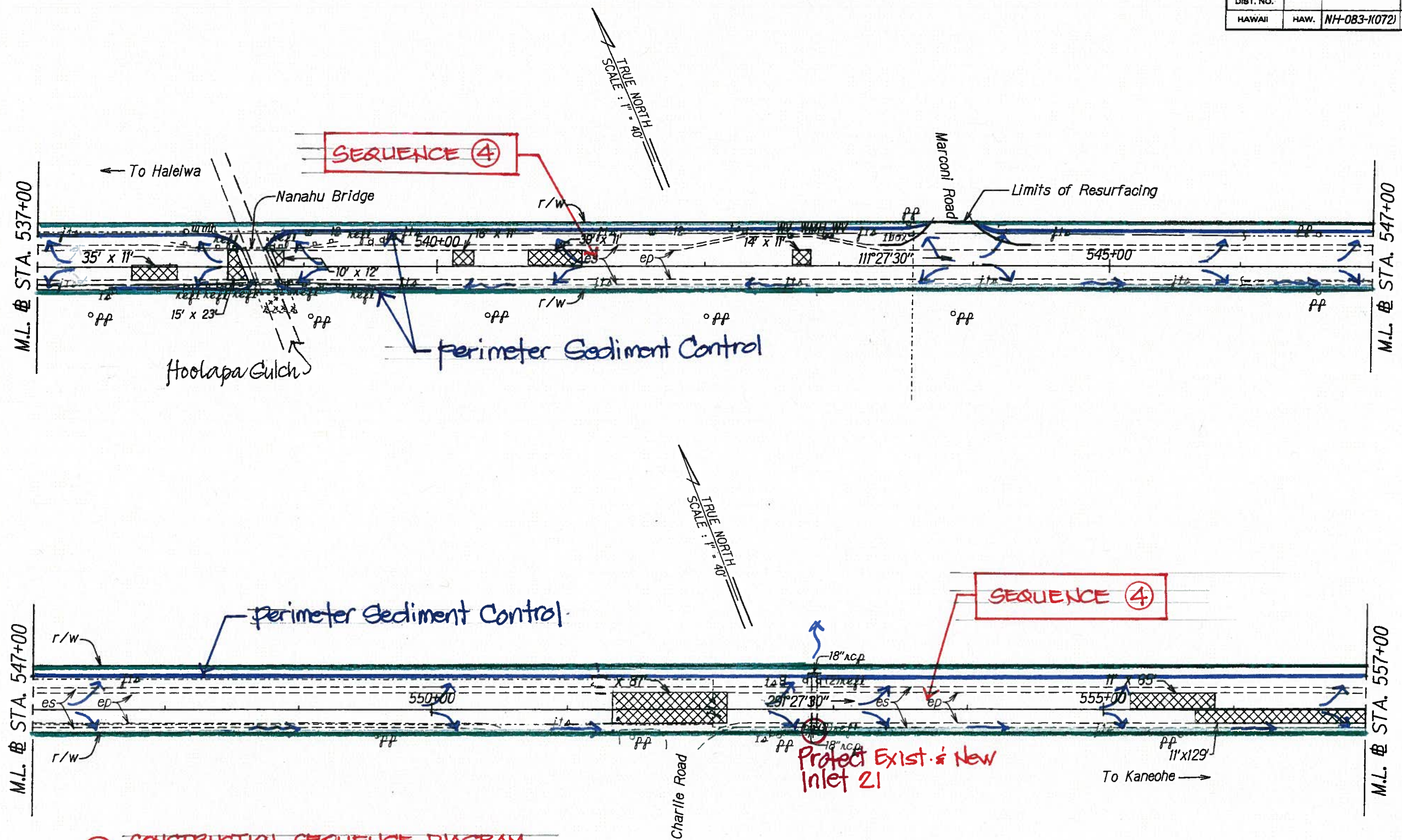
SURVEY PLOTTED BY	DATE
DRAWN BY	
NOTED BY	
CHECKED BY	



- ④ CONSTRUCTION SEQUENCE DIAGRAM**
Sta. 513+40± to Sta. 563+00±
 A. Install Perimeter Sediment Control (PSC) and Inlet Protection 18-C & 21
 B. Construct Roadway
 C. Remove all BMPs once roadway construction is completed except the PSC from Sta. 561+00± to Sta. 563+00±.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTES	DRAWN BY	
dd3/m/keg	DESIGNED BY	
N. Zimhagen	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



- ④ CONSTRUCTION SEQUENCE DIAGRAM
Sta. 537+00 to Sta. 563+00
- Install Perimeter Sediment Control and Inlet Protection 18-C & 21
 - Construct Roadway
 - Remove all BMPs once roadway construction is completed except the PSC from Sta. 561+00 to Sta. 563+00

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

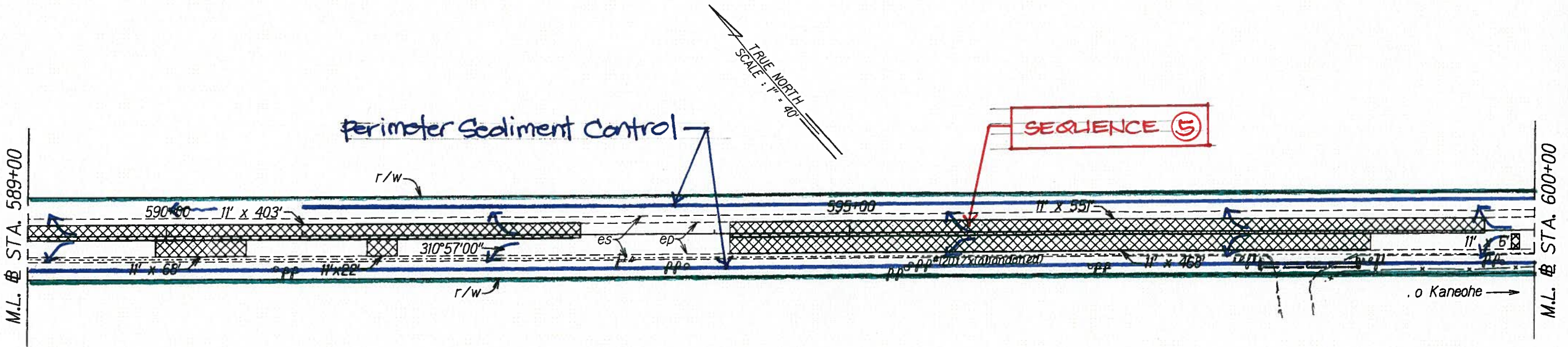
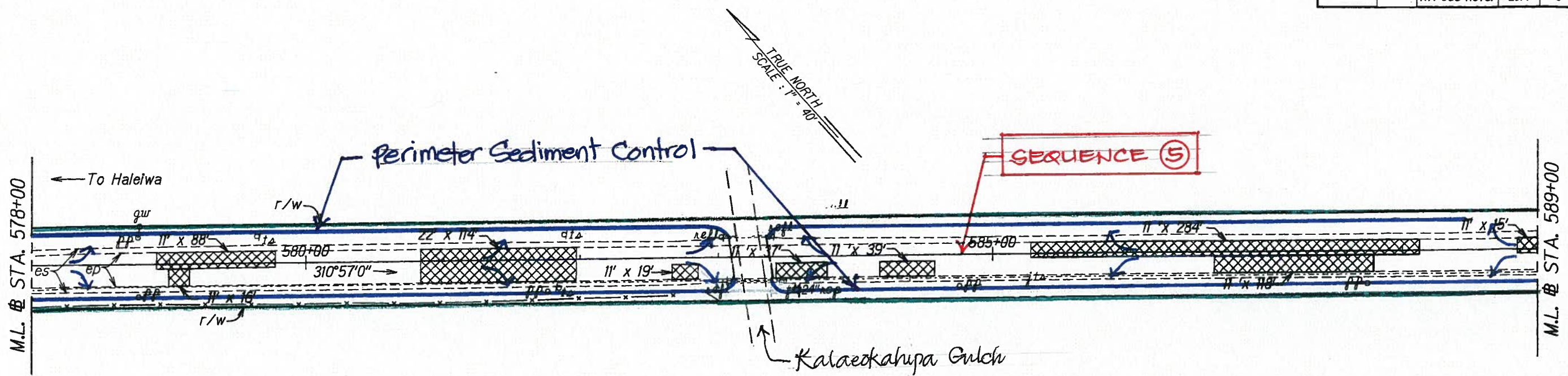
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Lāiewai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 10 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(073)	2014	0	0



- ⑤ CONSTRUCTION SEQUENCE DIAGRAM
Sta. 583+00 to Sta. 610+00
- A. Install Perimeter Sediment Control
 - B. Construct Roadway
 - C. Remove all BMP's once roadway construction is completed.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING

Dairy Road to Lalewai Bridge

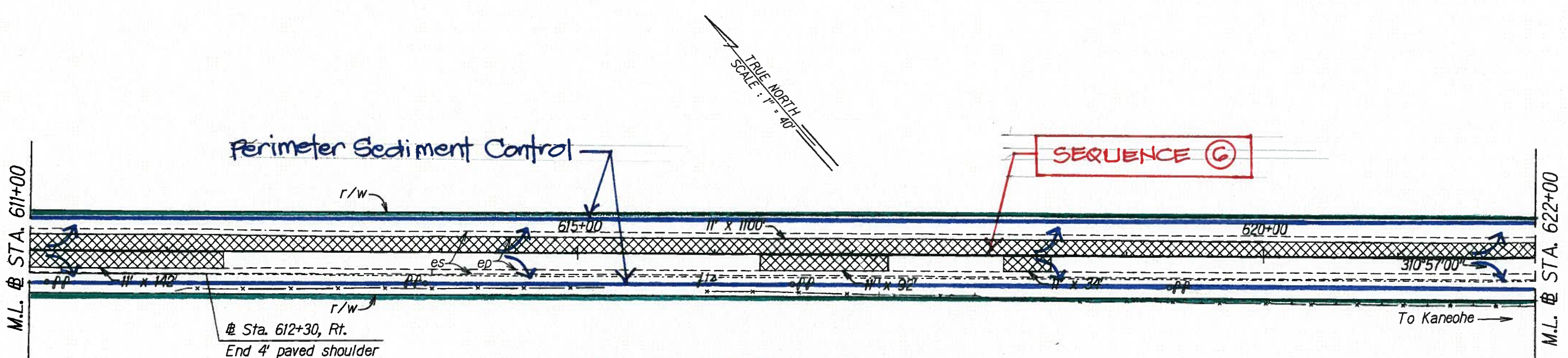
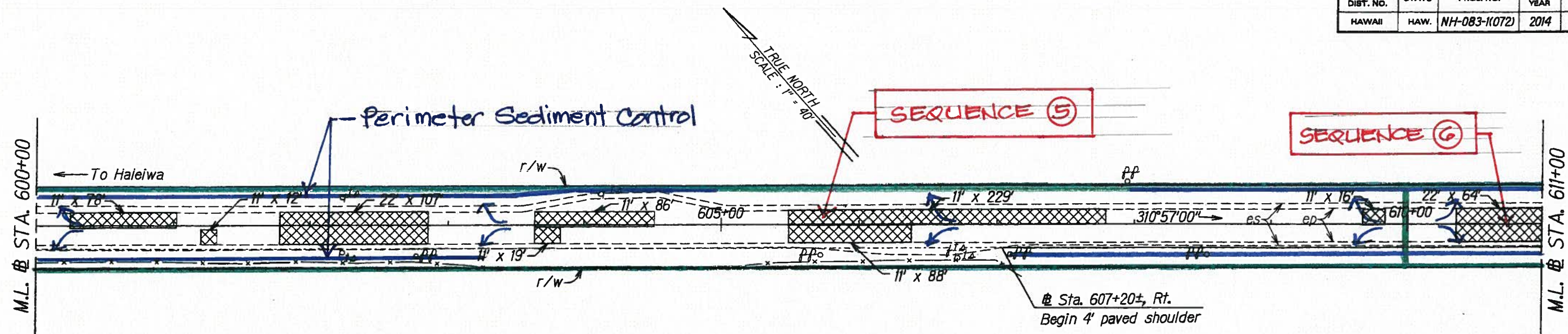
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40'

Date: March, 2014

SHEET No. 12 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



- ⑥ CONSTRUCTION SEQUENCE DIAGRAM**
Sta. 610+00 to Sta. 650+00
- A. Install Perimeter Sediment Control (PSC) and Protection Inlet 32-A & 32-B
 - B. Construct Roadway
 - C. Remove all BMP's once roadway construction is completed, except at contractors staging area.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

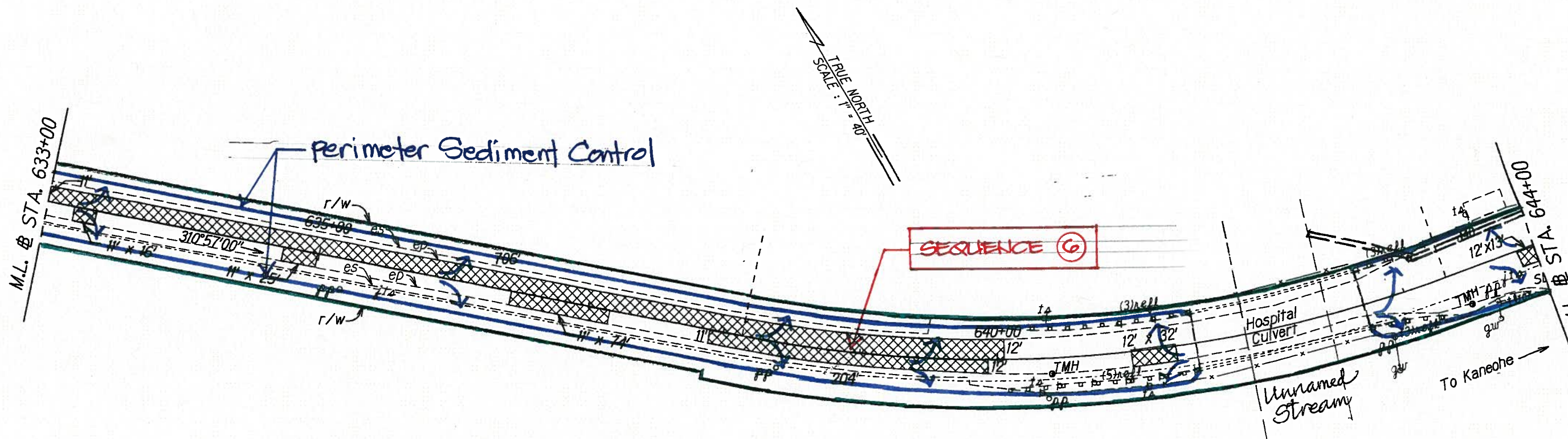
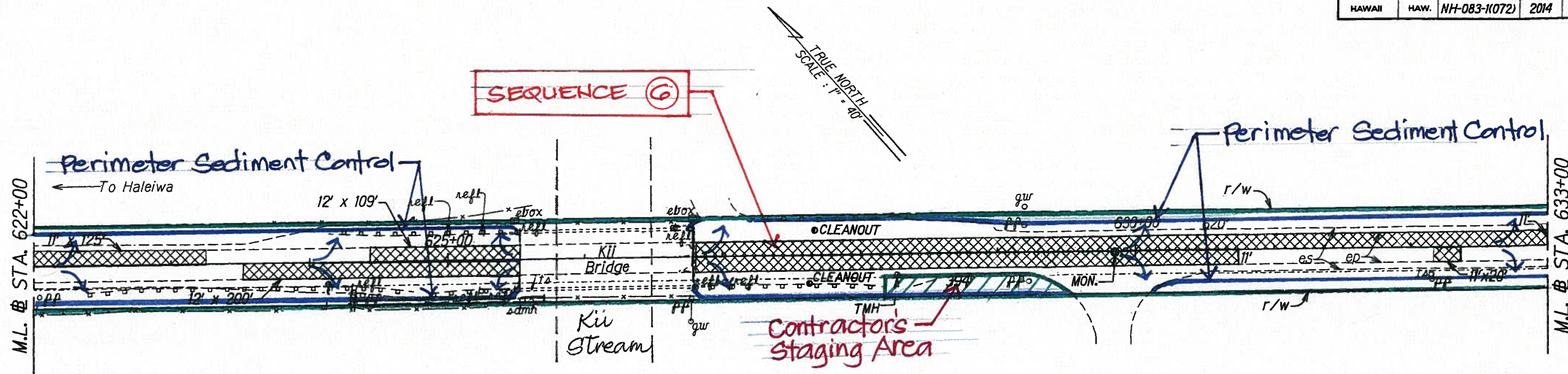
KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 13 OF 20 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-K072	2014	0	0



- ⑥ CONSTRUCTION SEQUENCE DIAGRAM
Sta. 610+00 to Sta. 650+00
- Install Perimeter Sediment Control and Inlet Protection 32-A & 32-B
 - Construct Roadway
 - Remove all BMP's once roadway construction is completed, except at Contractor's staging area.

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

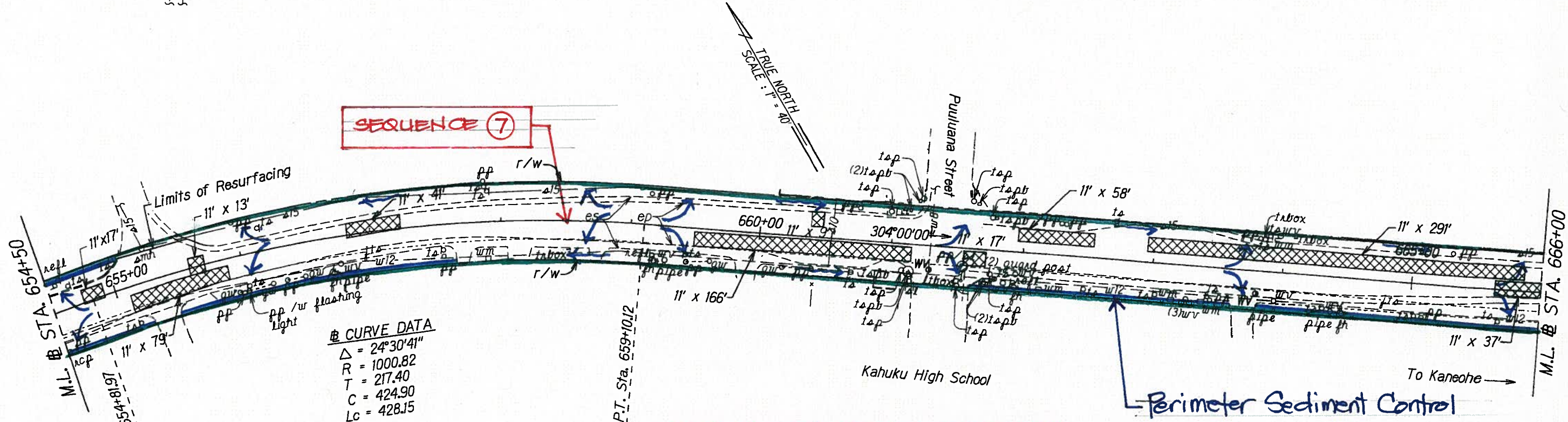
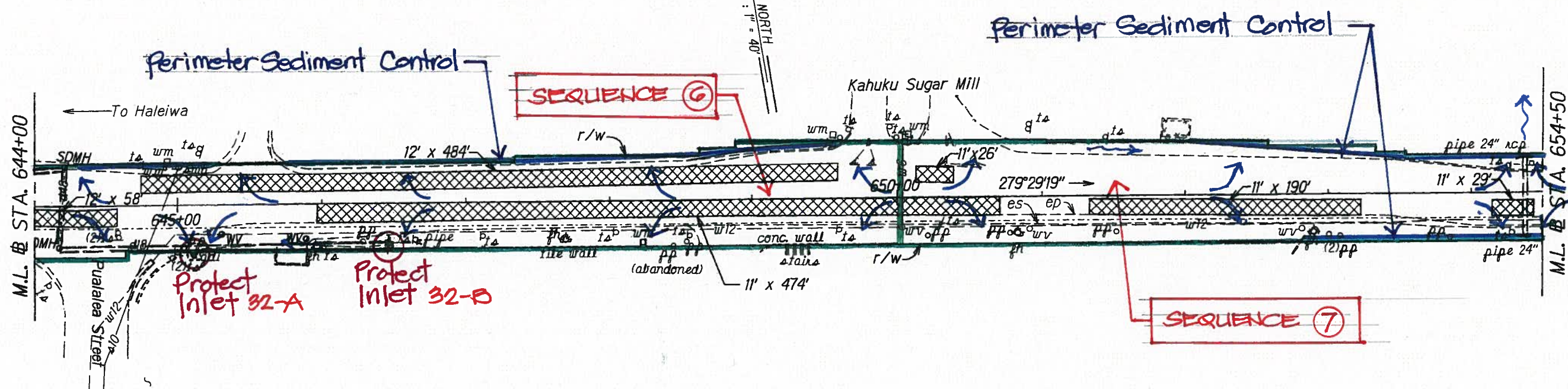
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Lalewai Bridge
Federal Aid Project No. NH-083-K072

Scale: 1" = 40' Date: March, 2014

SHEET No. 14 OF 20 SHEETS



CURVE DATA
 $\Delta = 24^\circ 30' 41''$
 $R = 1000.82$
 $T = 217.40$
 $C = 424.90$
 $L_c = 428.15$

- 7 CONSTRUCTION SEQUENCE DIAGRAM**
Sta. 650+00 to Sta. 693+00
 A. Install Perimeter Sediment Control
 B. Construct Roadway
 C. Remove all BMPs once roadway construction is completed.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLANS

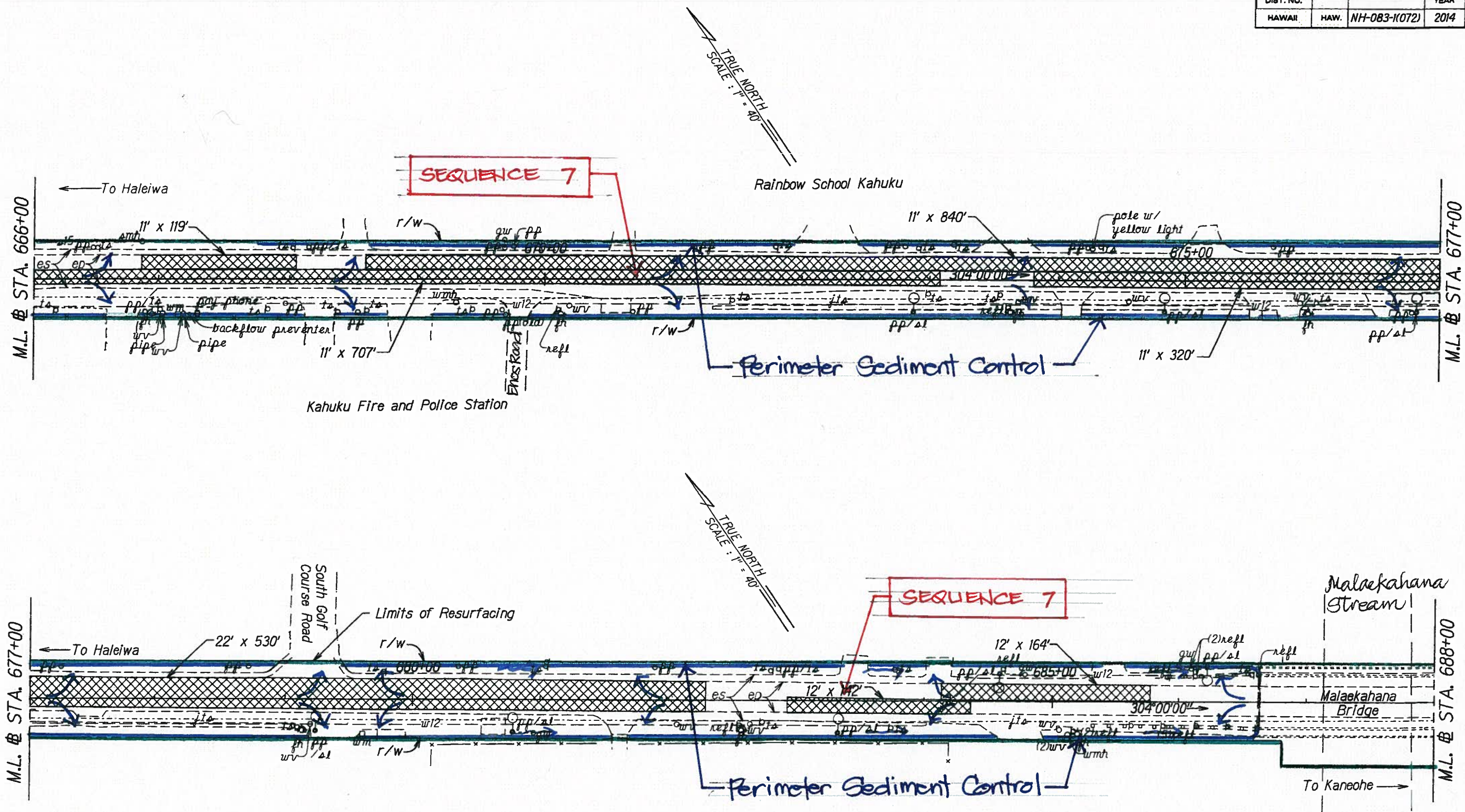
KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Laewai Bridge
 Federal Aid Project No. NH-083-1072

Scale: 1" = 40' Date: March, 2014

SHEET No. 15 OF 20 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
DATE	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



- ⑦ CONSTRUCTION SEQUENCE DIAGRAM**
Sta. 650+00 to Sta. 693+00
- Install Perimeter Sediment Control
 - Construct Roadway
 - Remove all BMP's once roadway construction is completed.

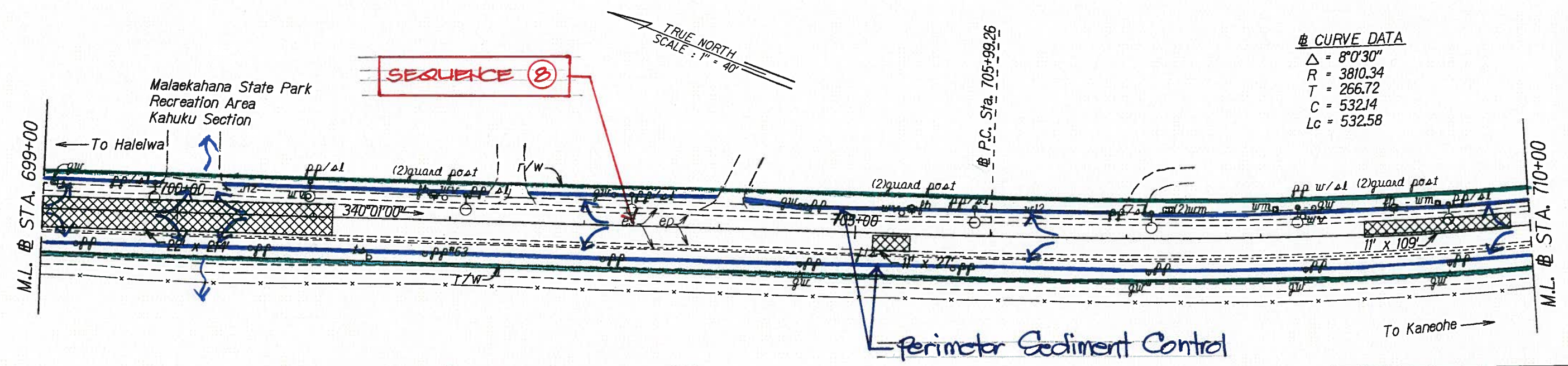
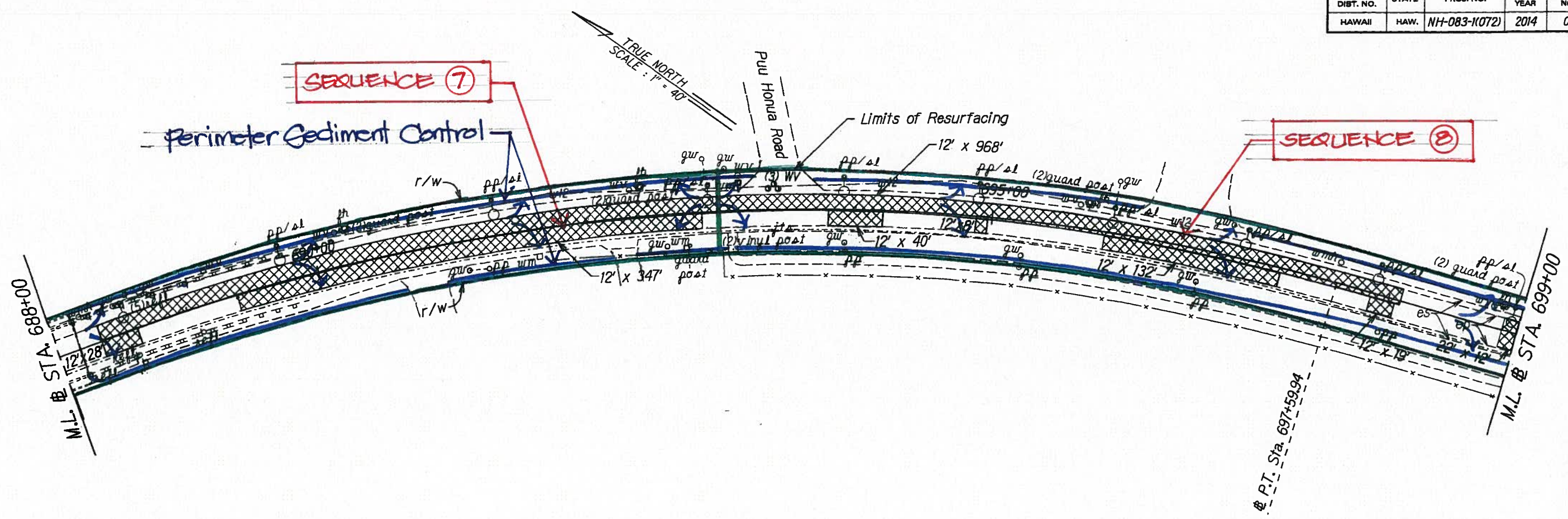
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Lalewai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 16 OF 20 SHEETS



⑧ CURVE DATA
 $\Delta = 8^{\circ}0'30''$
 $R = 3810.34$
 $T = 266.72$
 $C = 532.14$
 $Lc = 532.58$

- ⑧ CONSTRUCTION SEQUENCE DIAGRAM Sta. 693+00 to Sta. 736+00**
- A. Install Perimeter Sediment Control
 - B. Construct Roadway
 - C. Remove all BMP's once roadway construction is completed.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLANS

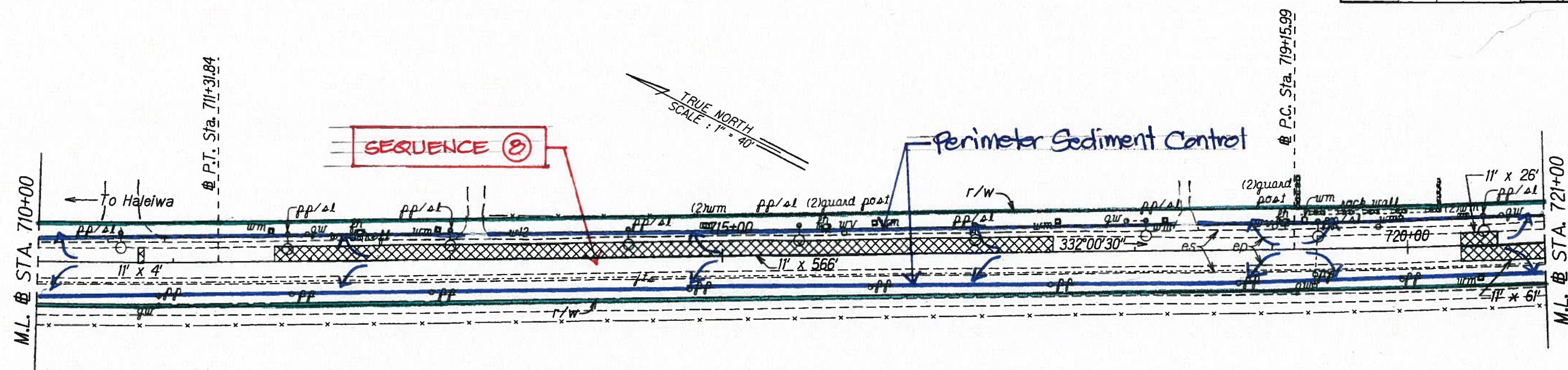
KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Laieal Bridge
 Federal Aid Project No. NH-083-1072

Scale: 1" = 40' Date: March, 2014

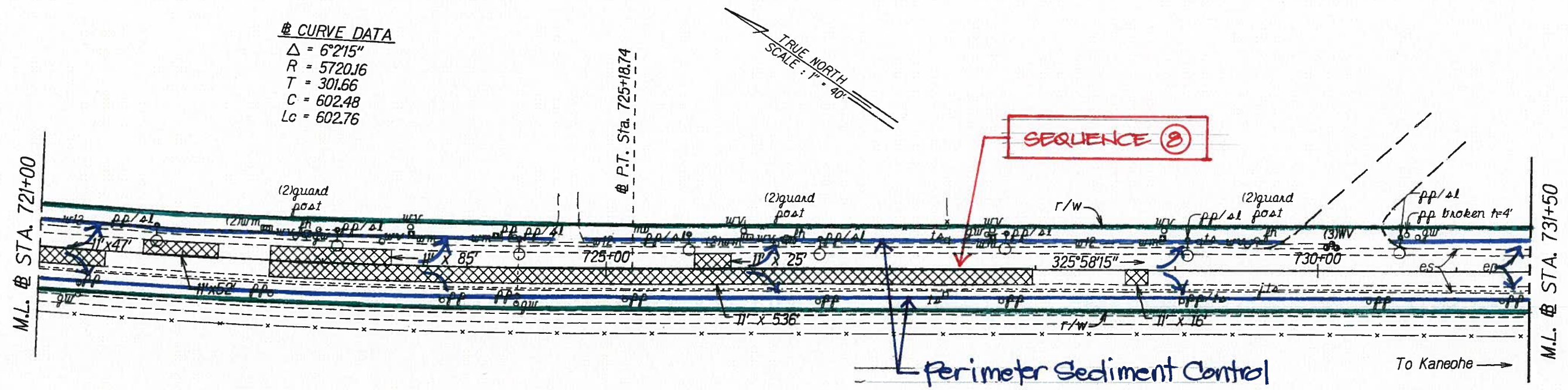
SHEET No. 17 OF 20 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
DATE	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



⑧ CURVE DATA
Δ = 6°2'15"
R = 5720.16
T = 301.66
C = 602.48
Lc = 602.76



- ⑧ CONSTRUCTION SEQUENCE DIAGRAM
Sta. 693 to Sta. 736+00
- A. Install Perimeter Sediment Control
 - B. Construct Roadway
 - C. Remove all BMP's once roadway construction is completed.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

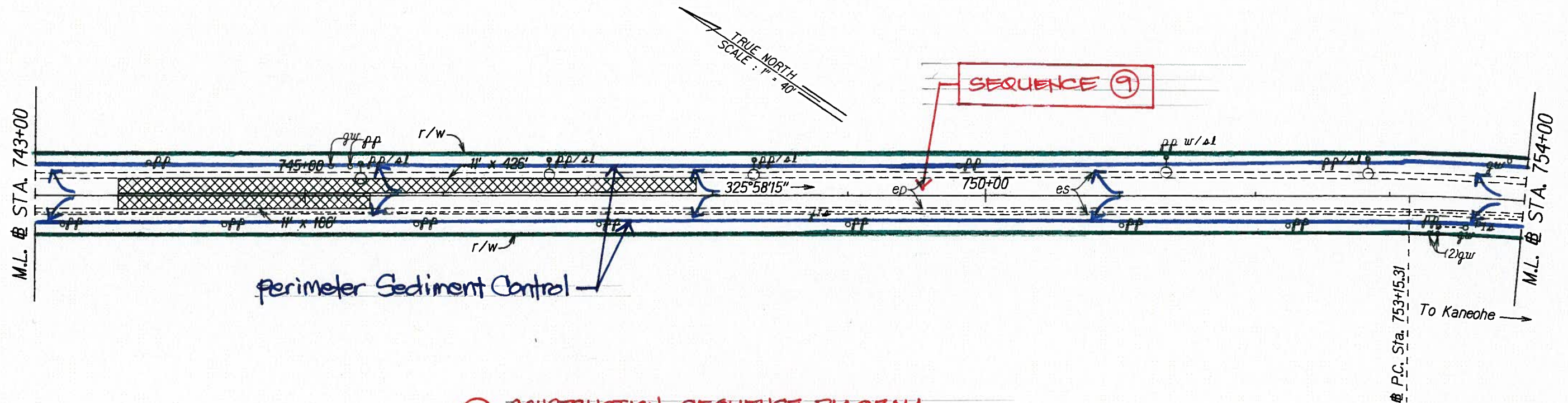
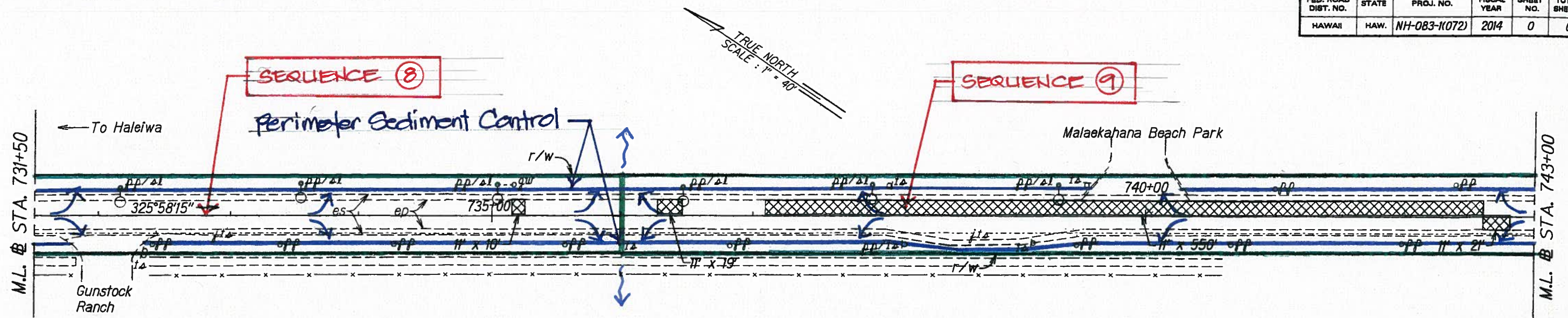
KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiawai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40'
Date: March, 2014

SHEET No. 18 OF 20 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



- ⑨ CONSTRUCTION SEQUENCE DIAGRAM
Sta. 736+00 to Sta. 765+00
- Install Perimeter Sediment Control
 - Construct Roadway
 - Remove all BMP's once roadway construction is completed.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

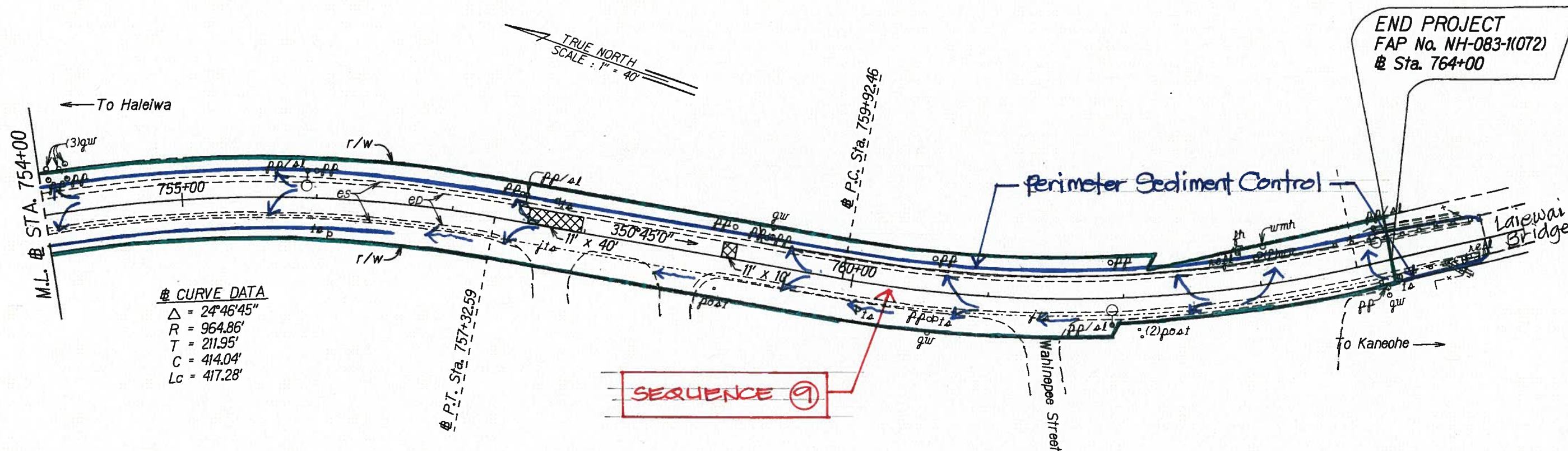
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Lāwai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 19 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



CURVE DATA
Δ = 24°46'45"
R = 964.86'
T = 211.95'
C = 414.04'
Lc = 417.28'

- ⑨ CONSTRUCTION SEQUENCE DIAGRAM
Sta. 736+00 to Sta. 765+00
- A. Install Perimeter Sediment Control
 - B. Construct Roadway
 - C. Remove all BMPs once roadway construction is completed.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiwai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

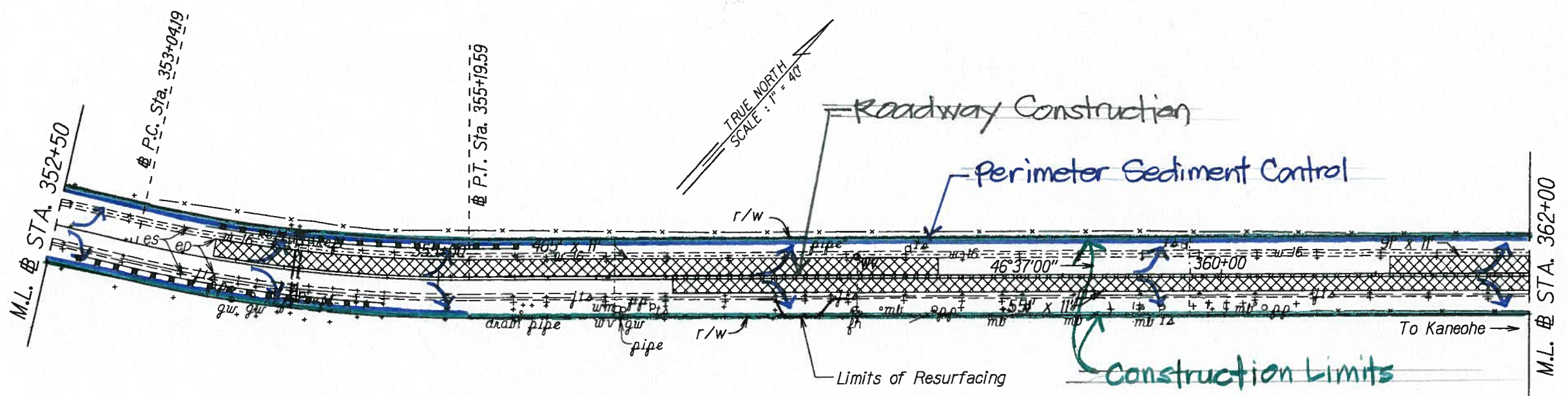
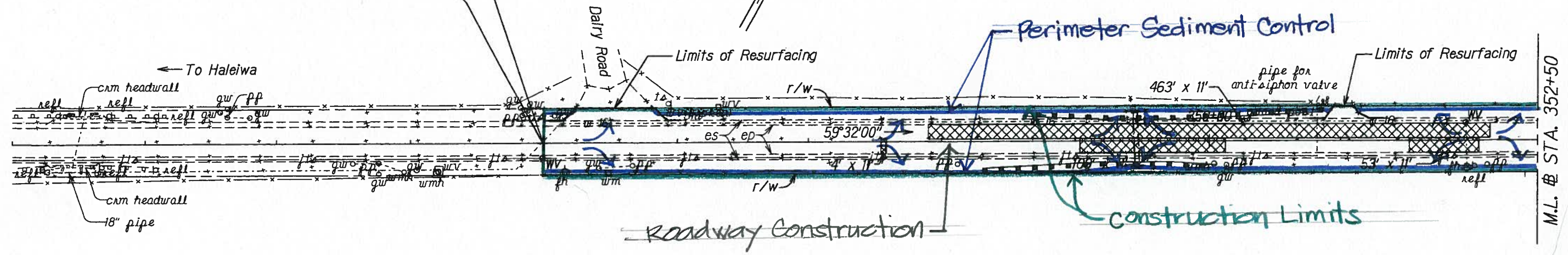
SHEET No. 20 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0

LEGEND:

- CONSTRUCTION LIMITS
- Protect Inlet
- Perimeter Sediment Control

BEGIN PROJECT
F.A.P. No. NH-083-1(072)
Sta. 345+00



BMP Plan- Road Construction
(Roadway Construction- includes cold-planning, reconstructing weakened pavement areas and resurfacing)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

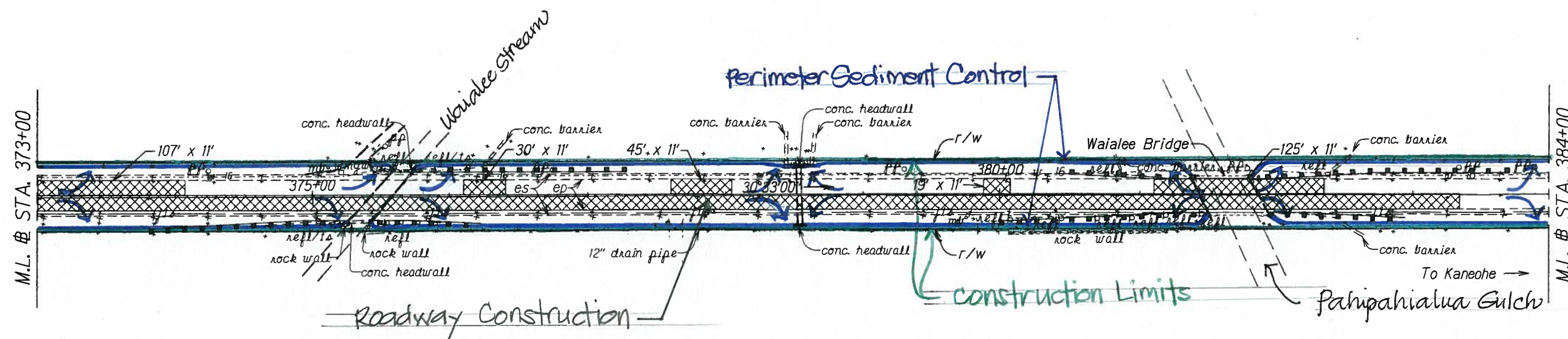
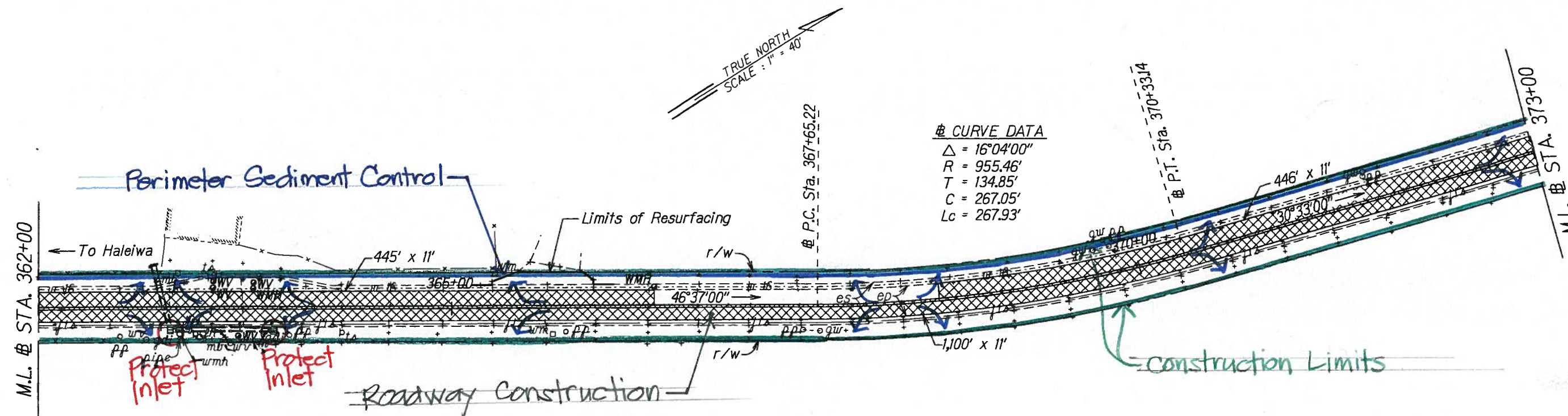
KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiawai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 1 OF 20 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



BMP Plan - Road Construction
 (Roadway Construction - includes cold-planing, reconstruction of weakened pavement areas, resurfacing, removing existing bridge end posts, railings and guardrails, and portion of bridge deck, and installing Delaware retrofit, concrete railings and guardrails, and reinforcing steel, and structure excavation, and installing concrete slab)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

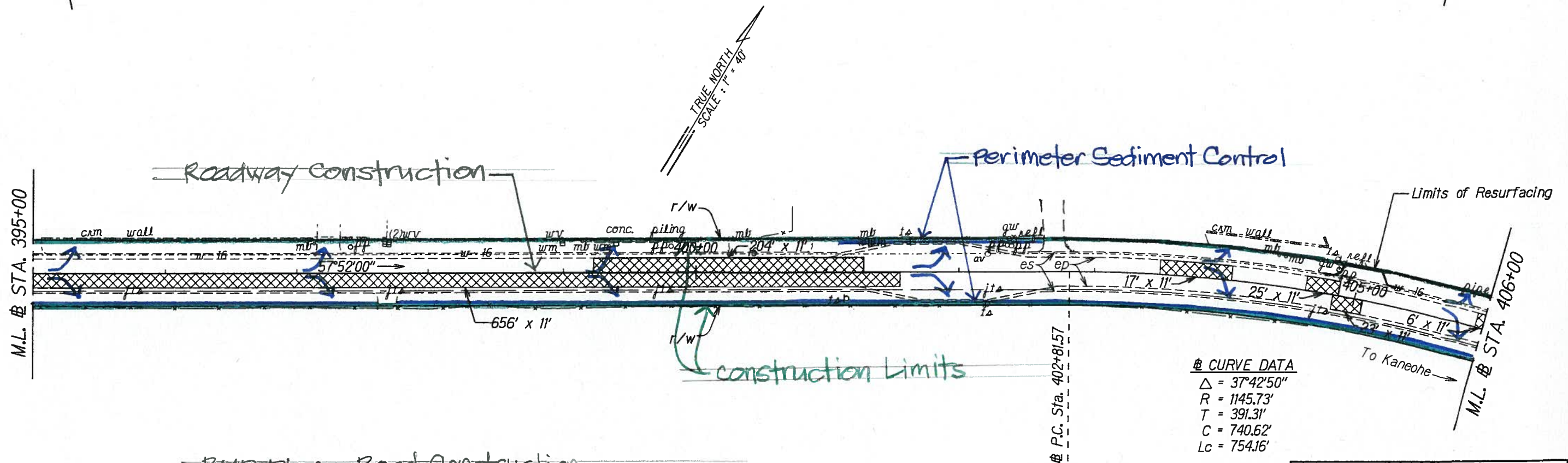
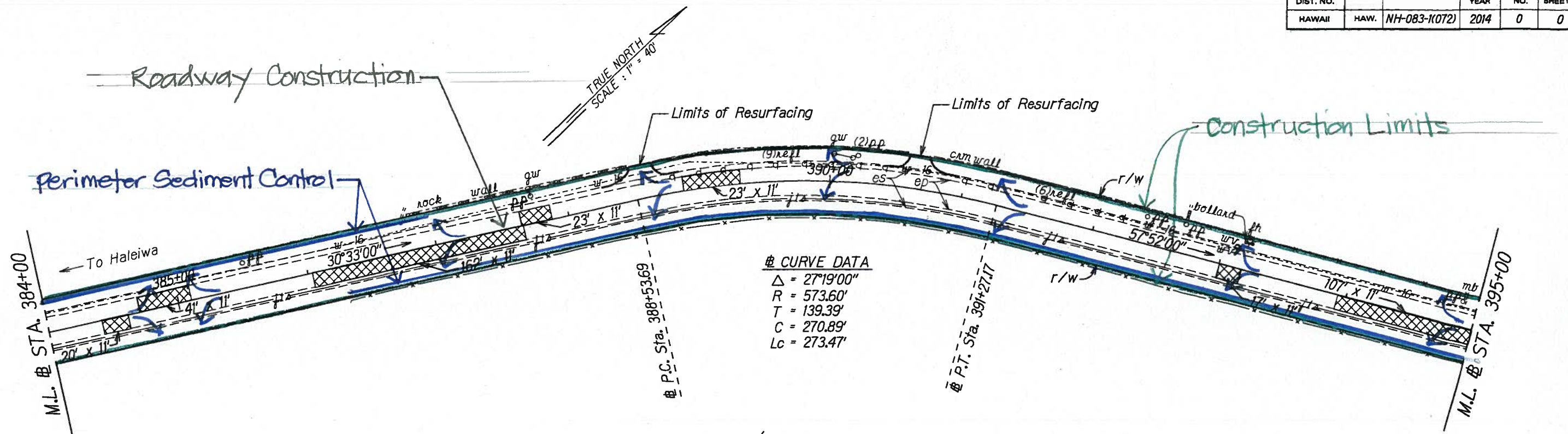
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Laiawai Bridge
 Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 2 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



BMP plan - Road Construction
(Roadway Construction - includes cold-planing, reconstruction of weakened pavement areas, and resurfacing)

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY <u>X</u>	
NOTES BOOK	TRACED BY _____	
	DESIGNED BY <u>X</u>	
	QUANTITIES BY _____	
	CHECKED BY _____	
N. No.	<u>2kmhdgn</u>	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING

Dairy Road to Laiewai Bridge

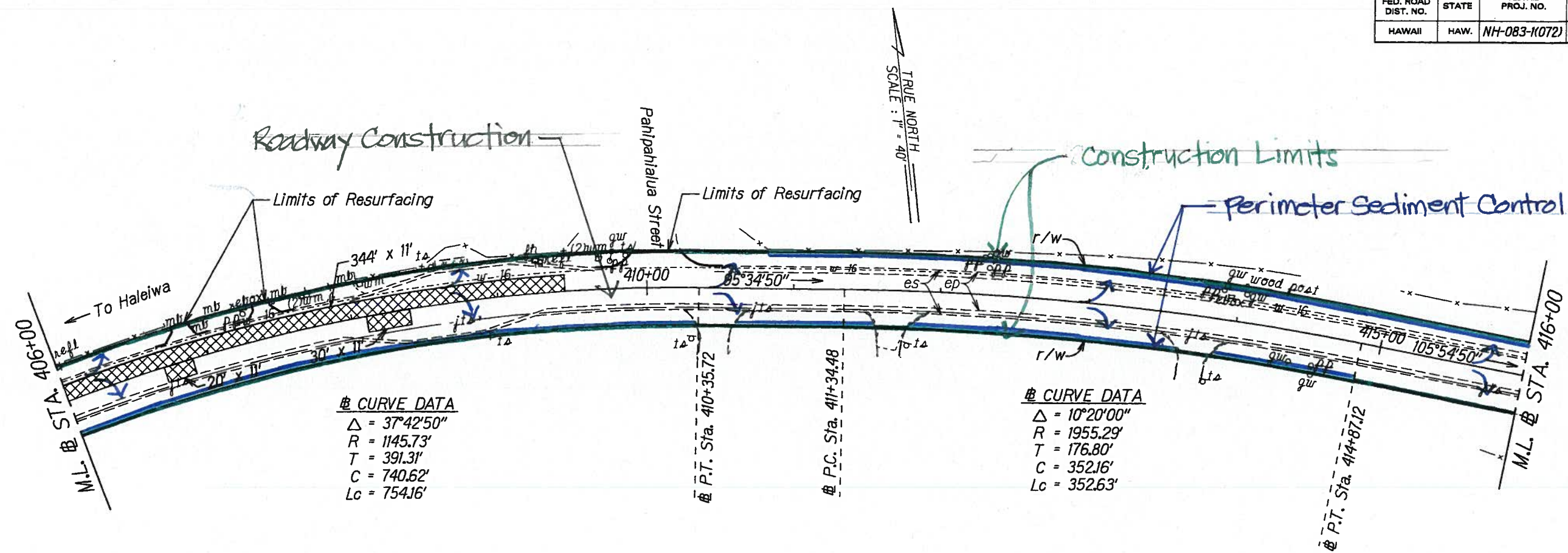
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40'

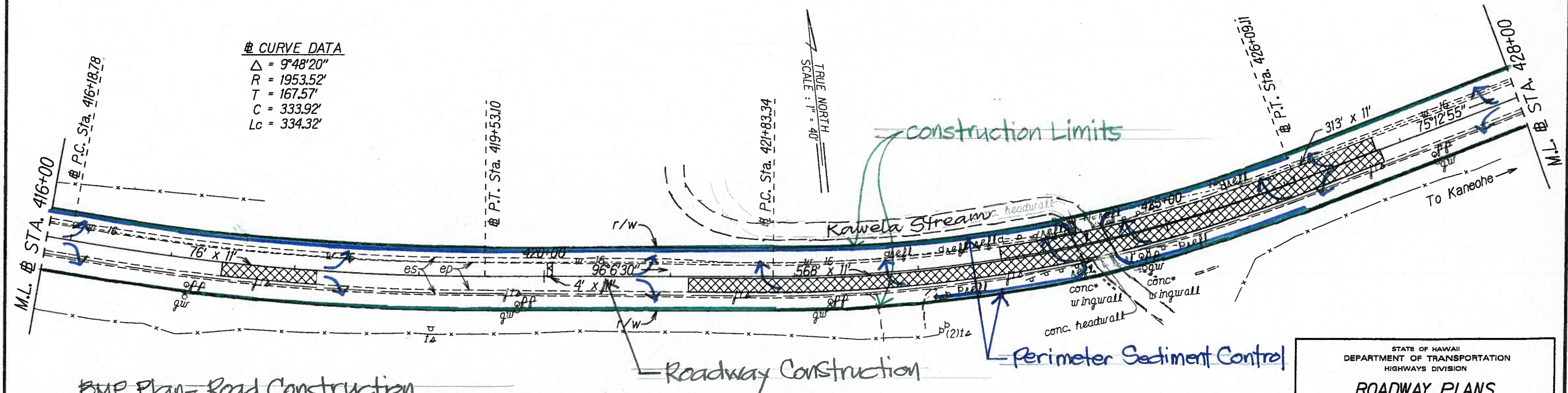
Date: March, 2014

SHEET No. 3 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



@ CURVE DATA
 $\Delta = 9^{\circ}48'20''$
 $R = 1953.52'$
 $T = 167.57'$
 $C = 333.92'$
 $L_c = 334.32'$



BMP Plan- Road Construction
 (Roadway Construction- includes cold-planting, reconstruction of weakened pavement areas, and resurfacing)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

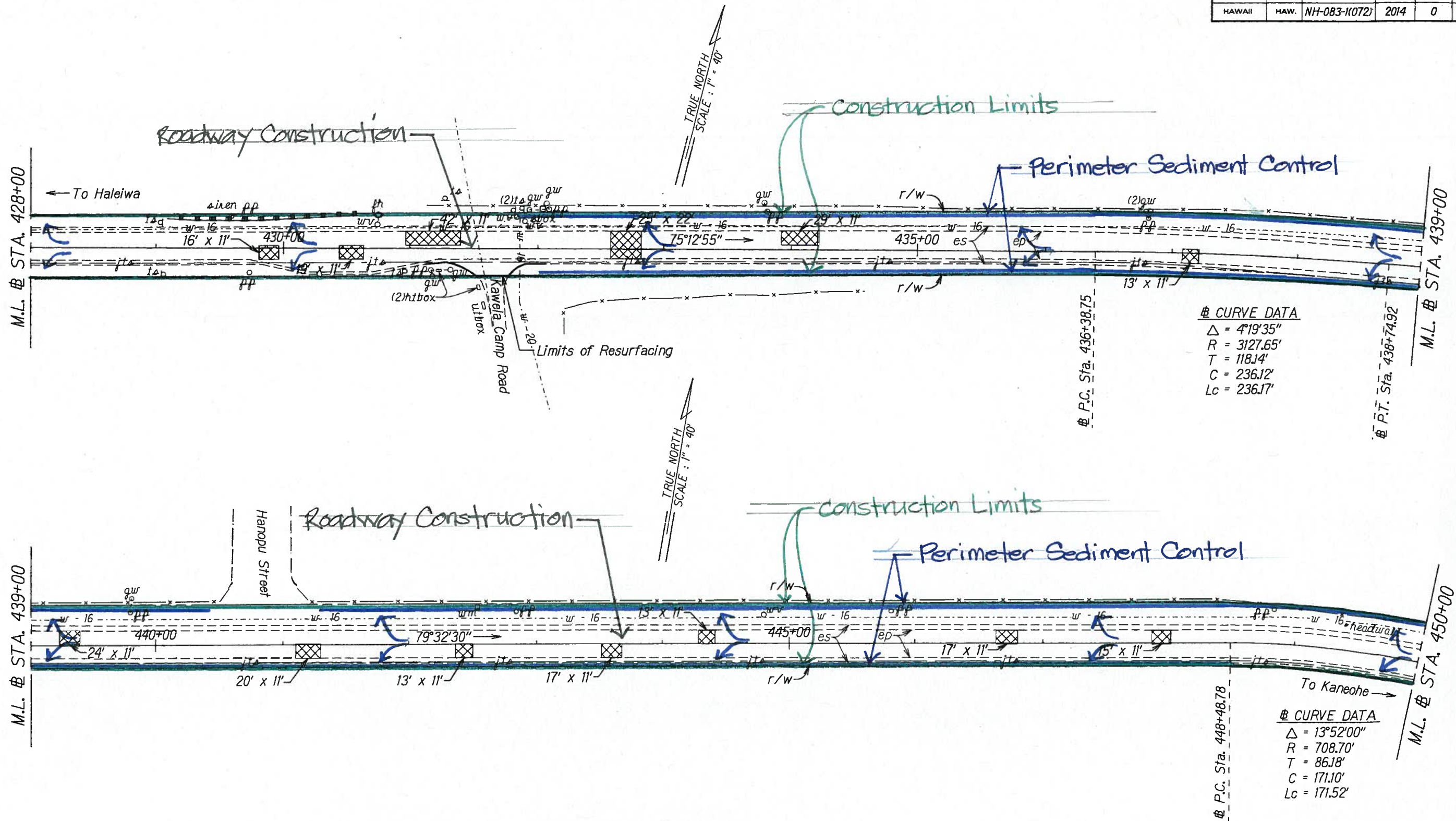
ROADWAY PLANS
 KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Laiawai Bridge
 Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40'
 Date: March, 2014

SHEET No. 4 OF 20 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTIFIED BY	
CHECKED BY	

BMP Plan- Road Construction
 (roadway construction- includes cold-planing, reconstruction of weakened pavement areas, resurfacing, and installation of guardrails)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

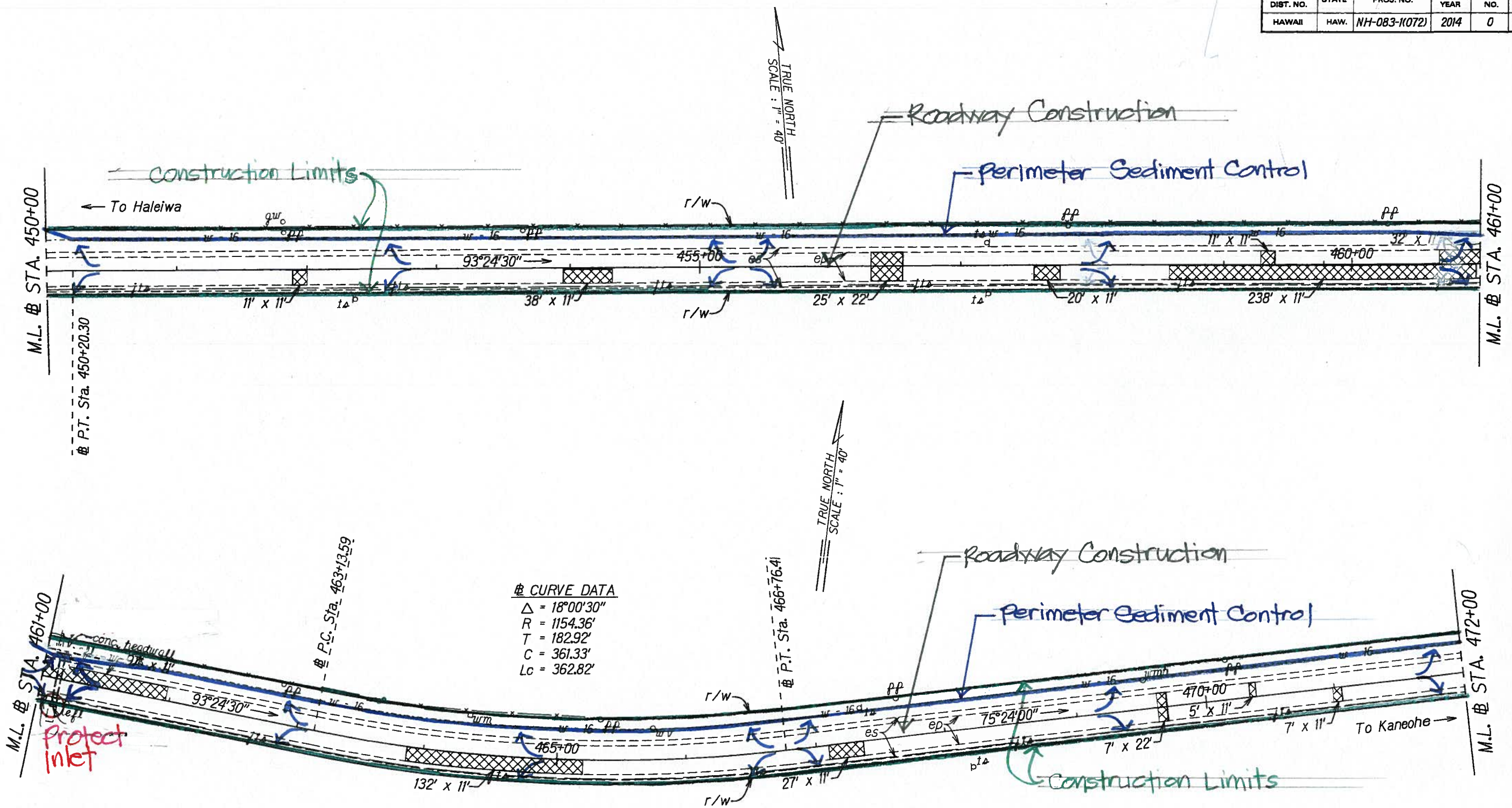
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiawai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 5 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



CURVE DATA
 $\Delta = 18^{\circ}00'30''$
 $R = 1154.36'$
 $T = 182.92'$
 $C = 361.33'$
 $LC = 362.82'$

BMP Plan - Road Construction
 (Roadway Construction - includes cold-planing, reconstruction of weakened pavement areas, and resurfacing)

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
PROJECT NO.	
DATE	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

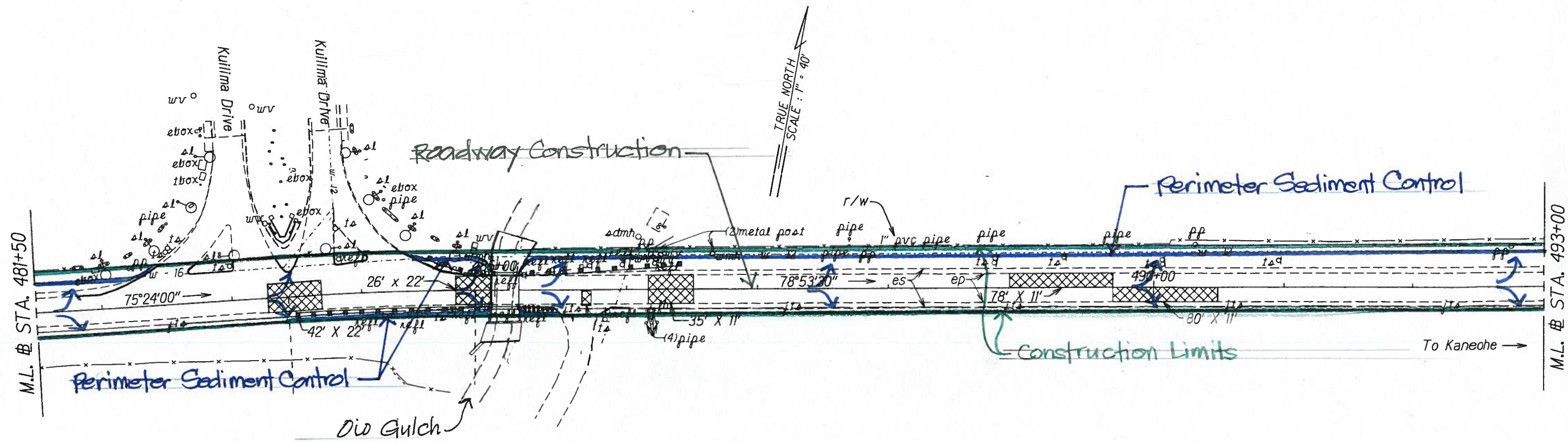
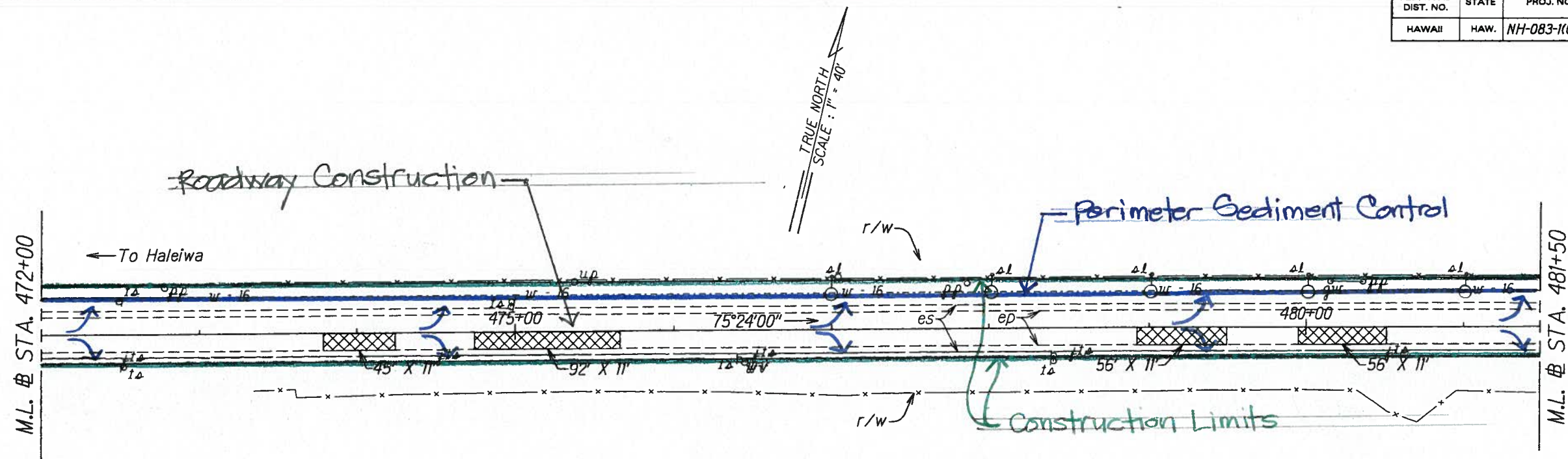
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Laiawai Bridge
 Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 6 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



BMP Plan - Road Construction
 (roadway construction - includes cold-planing, reconstruction of weakened pavement areas, resurfacing, removing existing railings, and posts and guardrails, structure excavation for concrete slab, constructing concrete railing, and installing guardrails and reinforcing steel, and installing concrete slab)

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING

Dairy Road to Laiawai Bridge

Federal Aid Project No. NH-083-1(072)

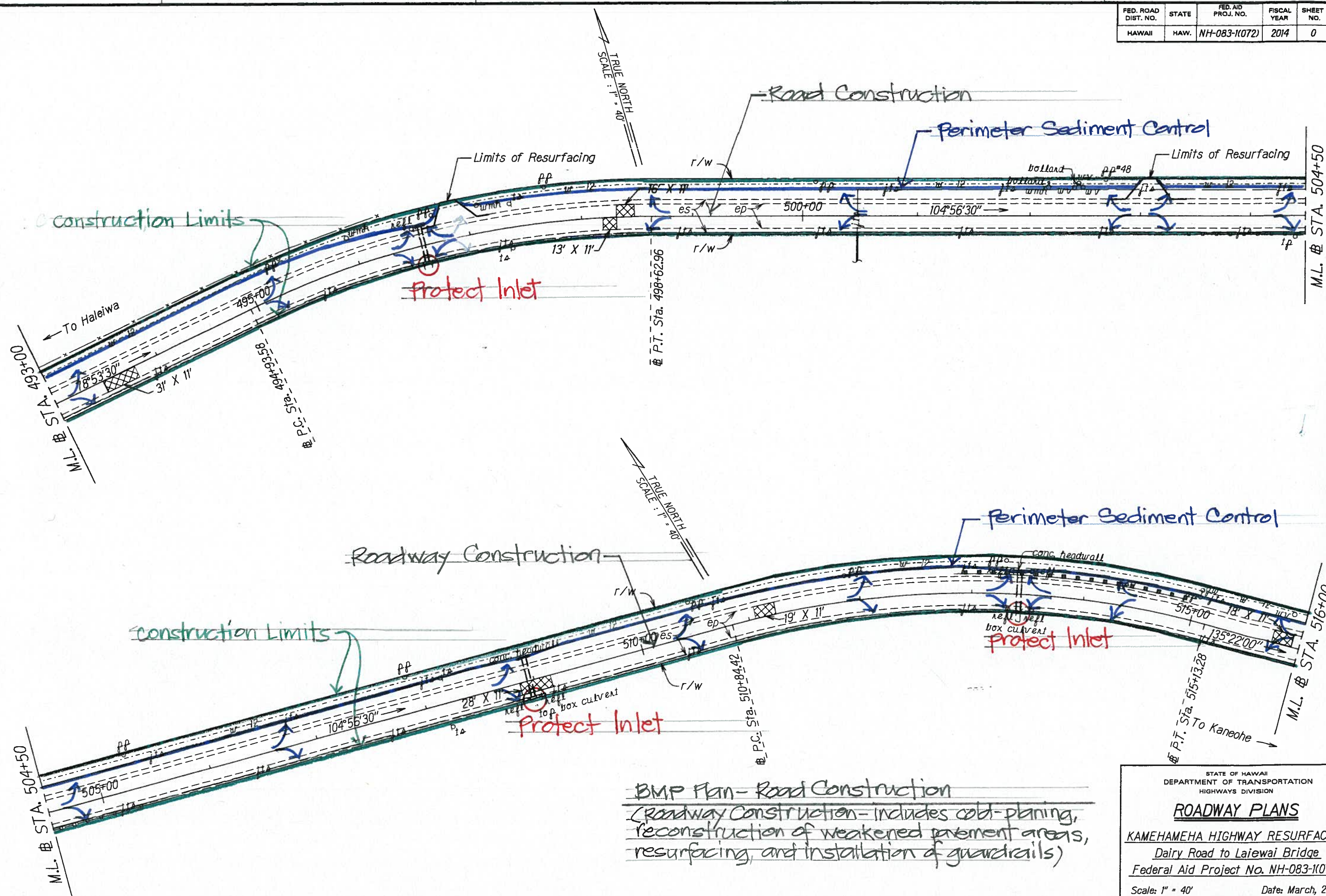
Scale: 1" = 40'

Date: March, 2014

SHEET No. 7 OF 20 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTES BOOK	DRAWN BY	
003.M/160	TRACED BY	
N. Zimmig	QUANTITIES BY	
	CHECKED BY	

BMP Plan - Road Construction
 (Roadway Construction - includes cold-planing, reconstruction of weakened pavement areas, resurfacing, and installation of guardrails)

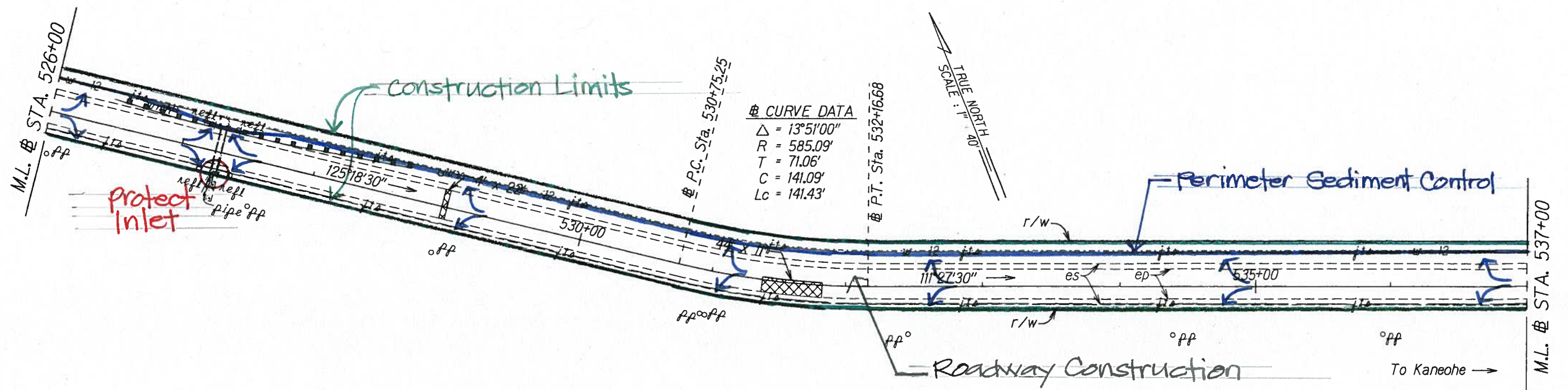
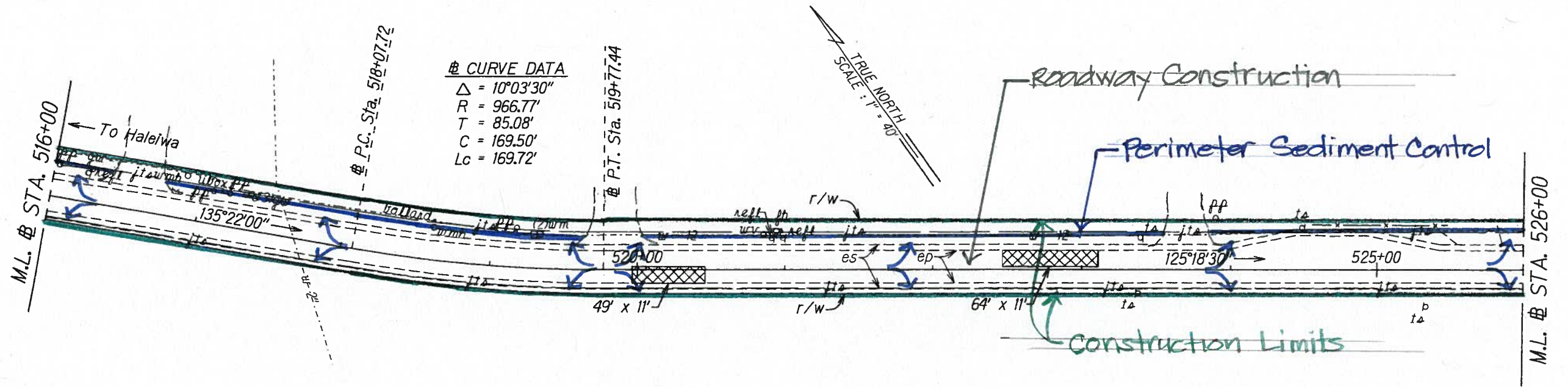
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Laiawai Bridge
 Federal Aid Project No. NH-083-1(072)

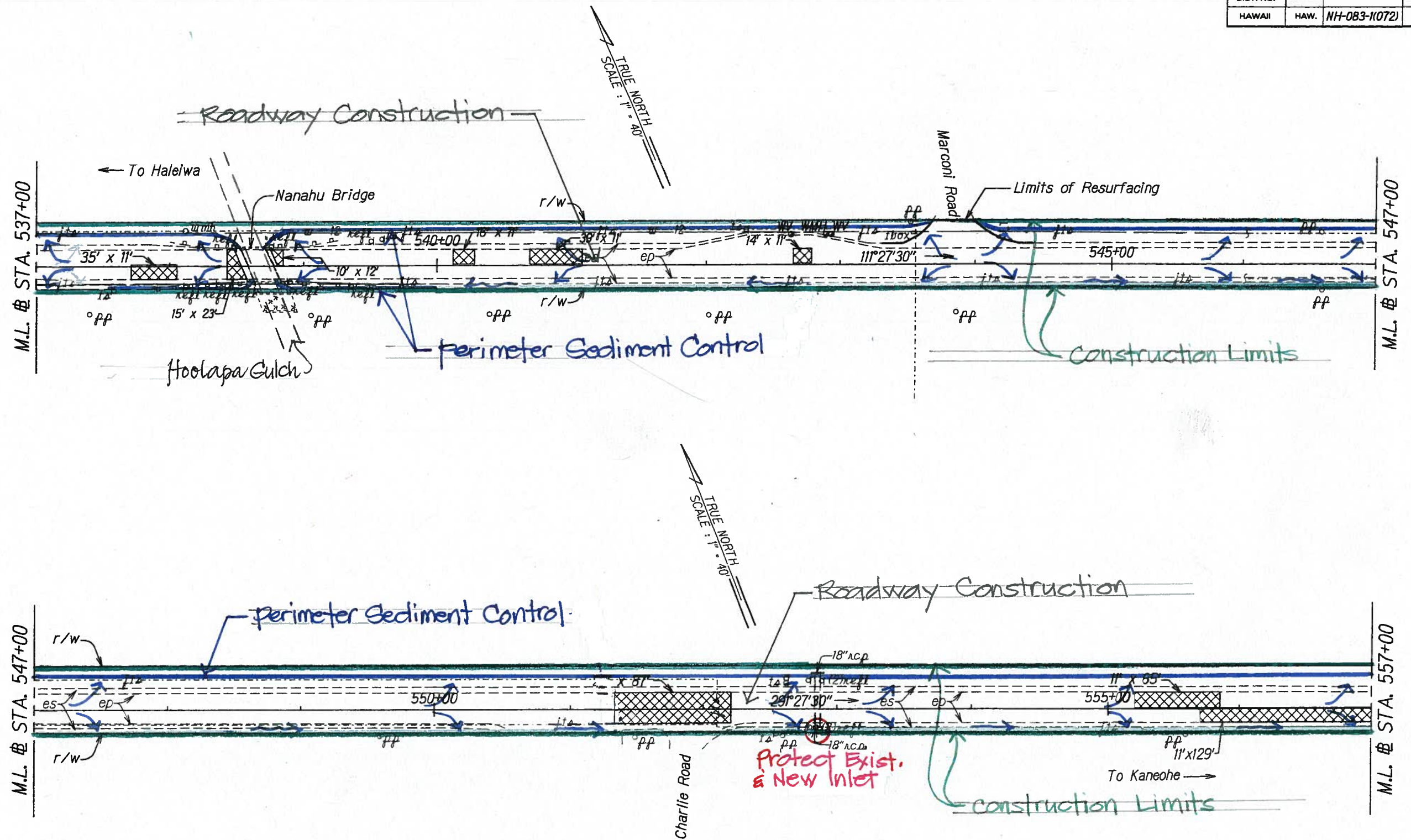
Scale: 1" = 40' Date: March, 2014

SHEET No. 8 OF 20 SHEETS



BMP Plan - Road Construction
 (Roadway Construction - includes cut-planing, reconstruction of weakened pavement areas, resurfacing, and installation of guardrails)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



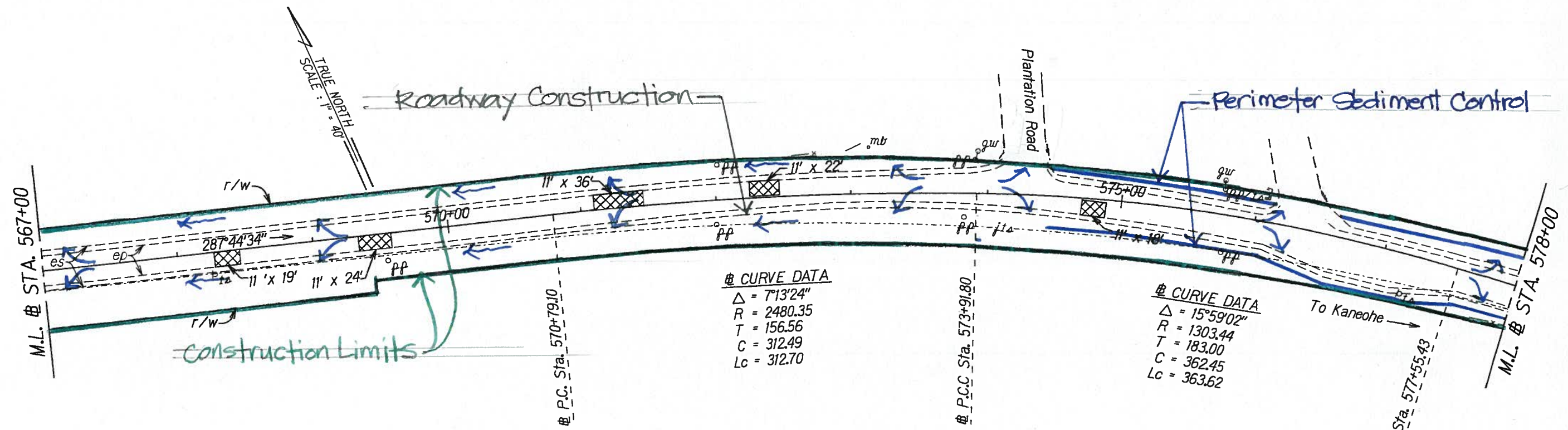
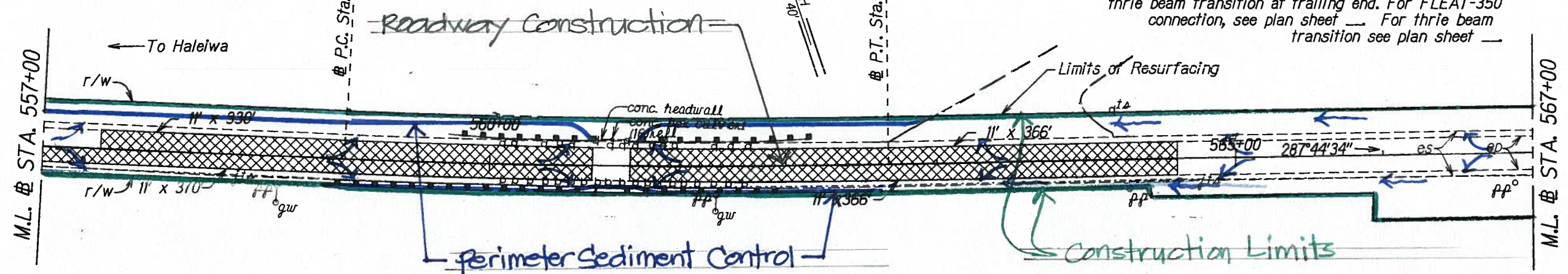
BMP Plan- Road Construction
 (Roadway construction - includes cut-planing, reconstruction of weakened pavement areas, and resurfacing, removing existing drain inlet, installing new grated drop inlet, grading and grassing the graded area)

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PLANS	
KAMEHAMEHA HIGHWAY RESURFACING	
Dairy Road to Laiewai Bridge	
Federal Aid Project No. NH-083-1(072)	
Scale: 1" = 40'	Date: March, 2014
SHEET No. 10 OF 20 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(073)	2014	0	0

@ Sta. 559+69.5, Lt. to @ Sta. 560+69.5, Lt.
Install 37.5 L.F. Strong Post W-Beam (8' post) with thrie beam transition at approach end and FLEAT 350 on trailing end. For FLEAT-350 connection, see plan sheet — For thrie beam transition, see plan sheet —

@ Sta. 560+94.5, Lt. to @ Sta. 562+19.5, Lt.
Install 62.5 L.F. Strong Post W-Beam (8' post) with FLEAT-350 at approach end and thrie beam transition at trailing end. For FLEAT-350 connection, see plan sheet — For thrie beam transition see plan sheet —



BMP Plan - Road Construction

(Roadway Construction - includes cold-planing, reconstruction of weakened pavement areas, resurfacing, removing existing culvert headwall, structure excavation for concrete slab, installing modified Delaware retrofit, reinforcing steel, concrete slab and guardrails, grading and grassing graded and exposed areas)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

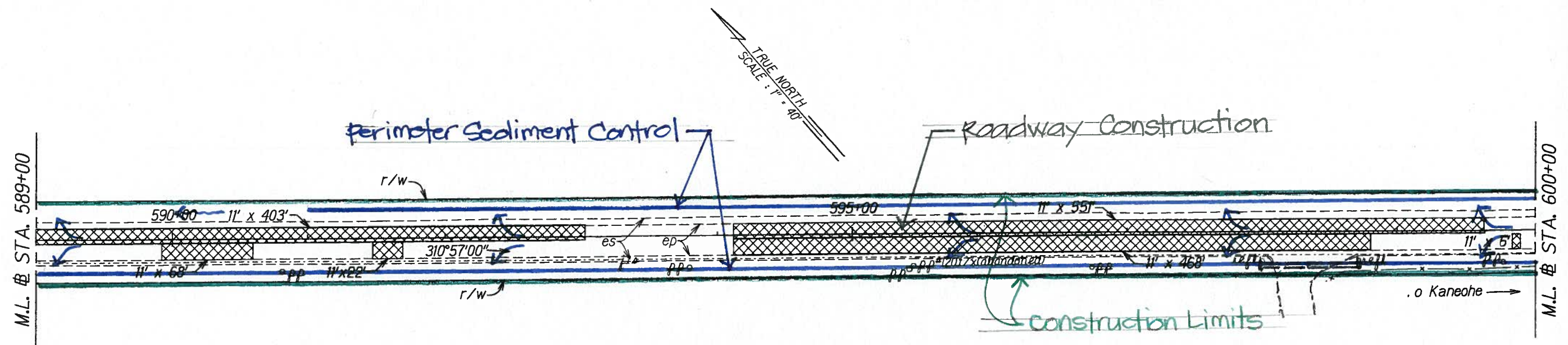
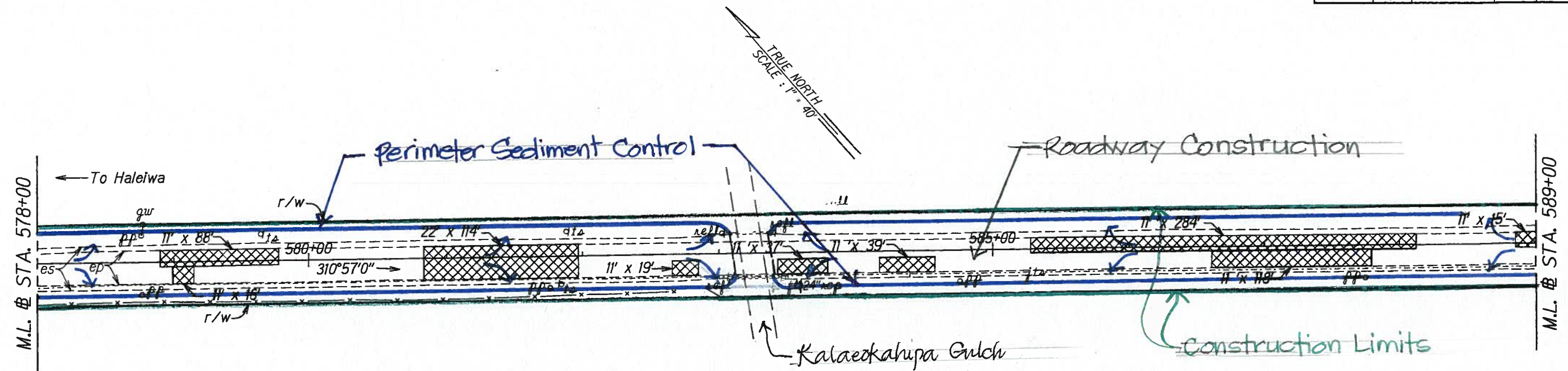
KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiwai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 11 OF 20 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(073)	2014	0	0

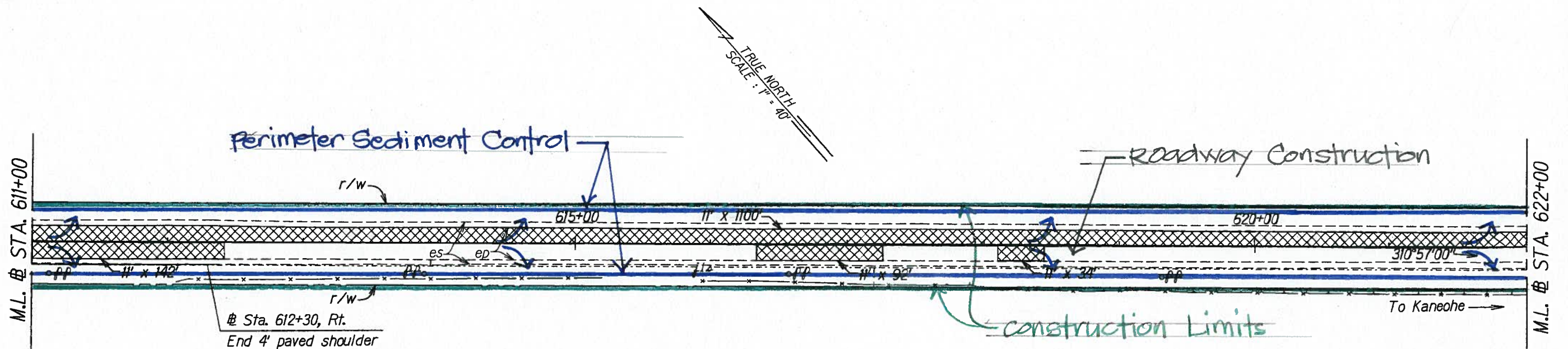
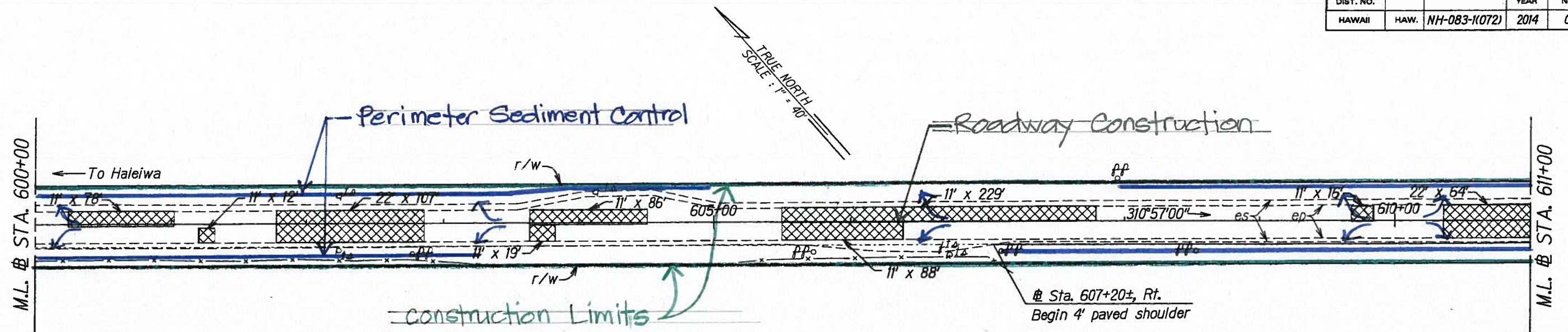


BMP Plan - Road Construction
 (Roadway Construction - includes cold-planing, resurfacing, and reconstruction of weakened pavement areas)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLANS
 KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Laiwai Bridge
 Federal Aid Project No. NH-083-1(072)
 Scale: 1" = 40' Date: March, 2014
 SHEET No. 12 OF 20 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



BMP Plans- Road Construction
 (Roadway Construction=includes cold-planing,
 reconstruction of weakened pavement areas,
 and resurfacing)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLANS

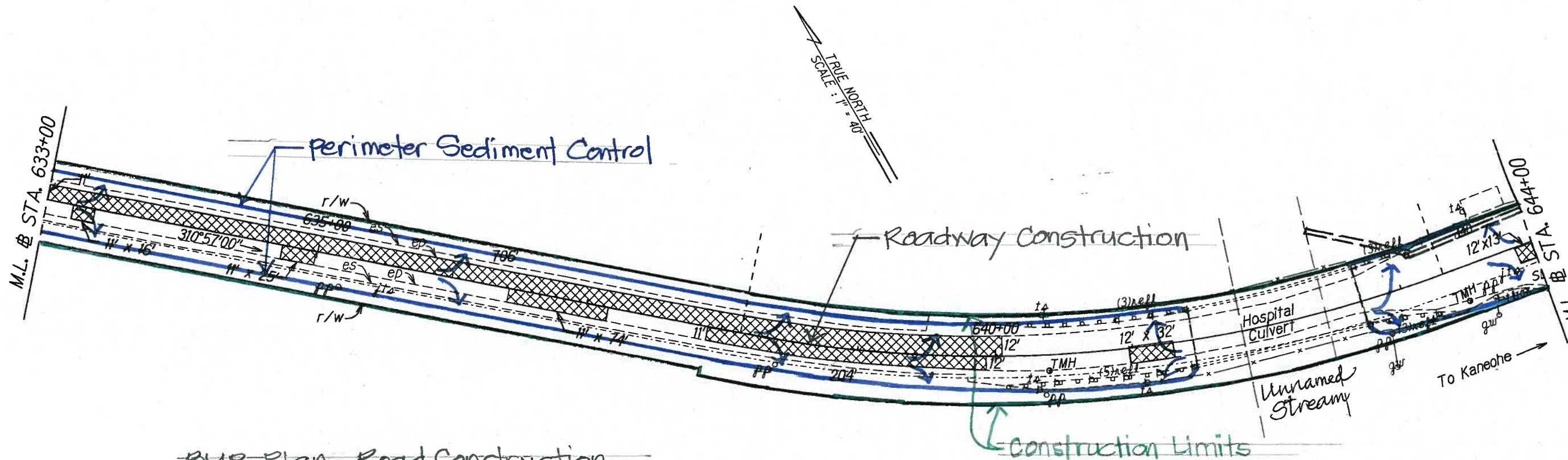
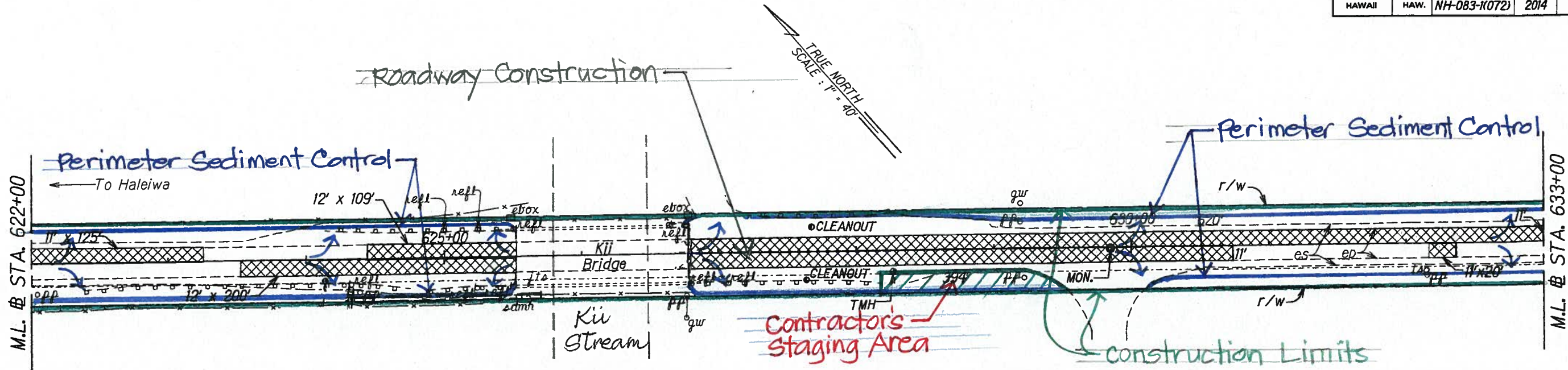
KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Lāiewai Bridge
 Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 13 OF 20 SHEETS

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

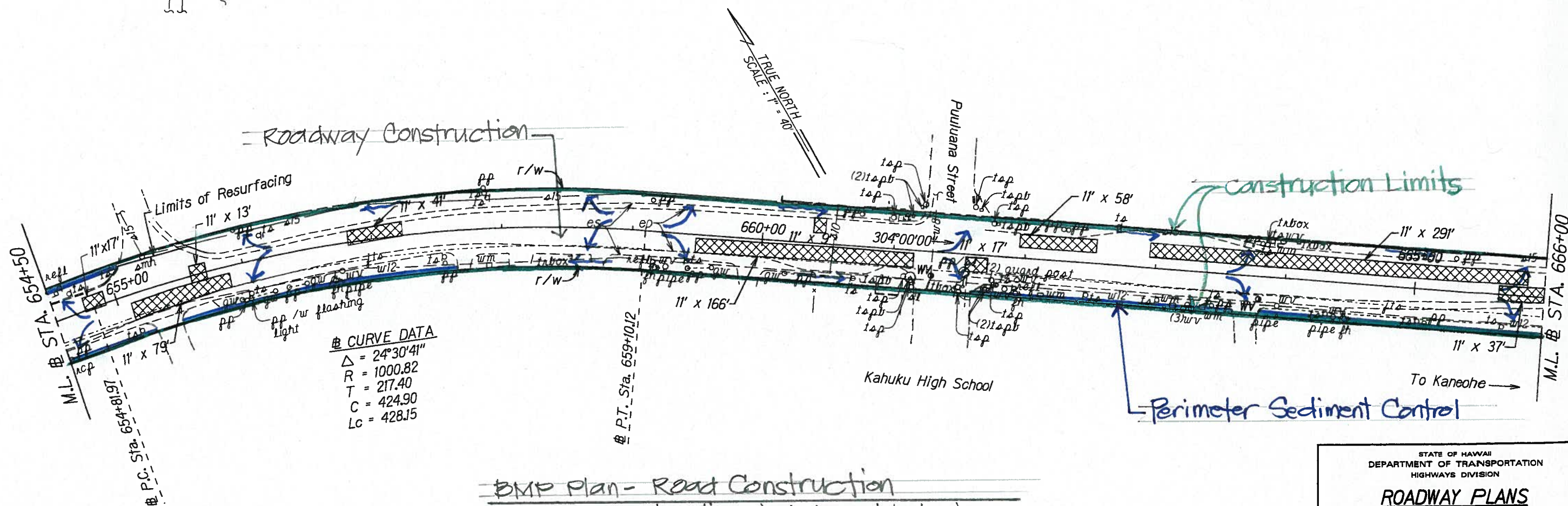
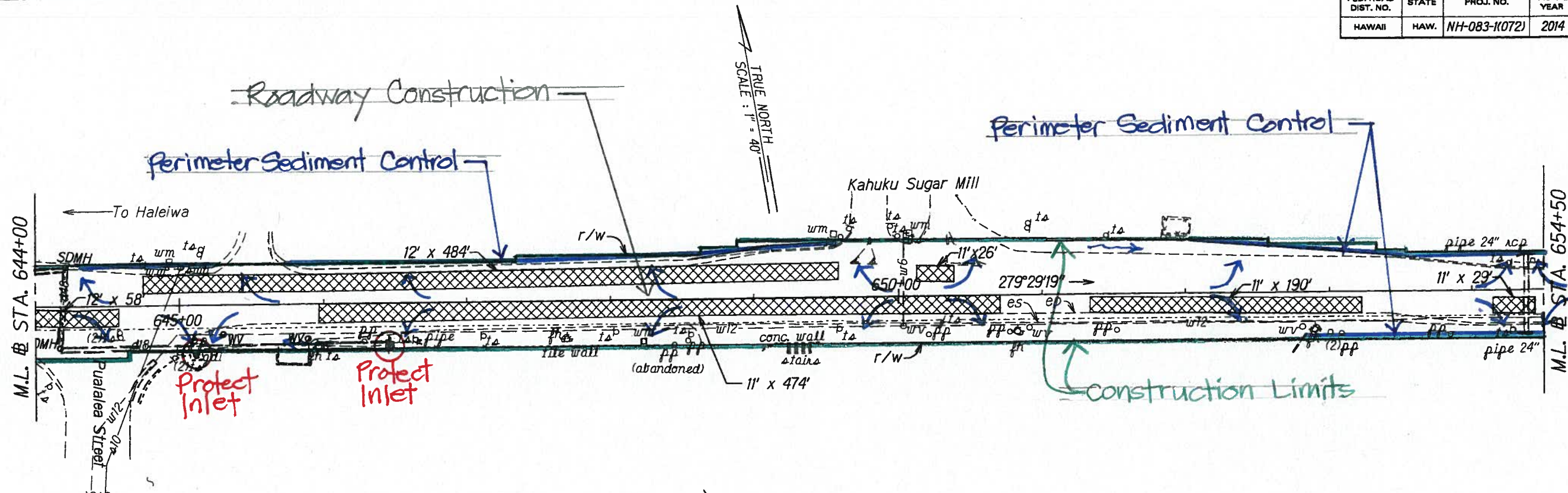
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



BMP Plan- Road Construction
(Roadway Construction- includes cold-planing, reconstruction of weakened pavement areas, and resurfacing)

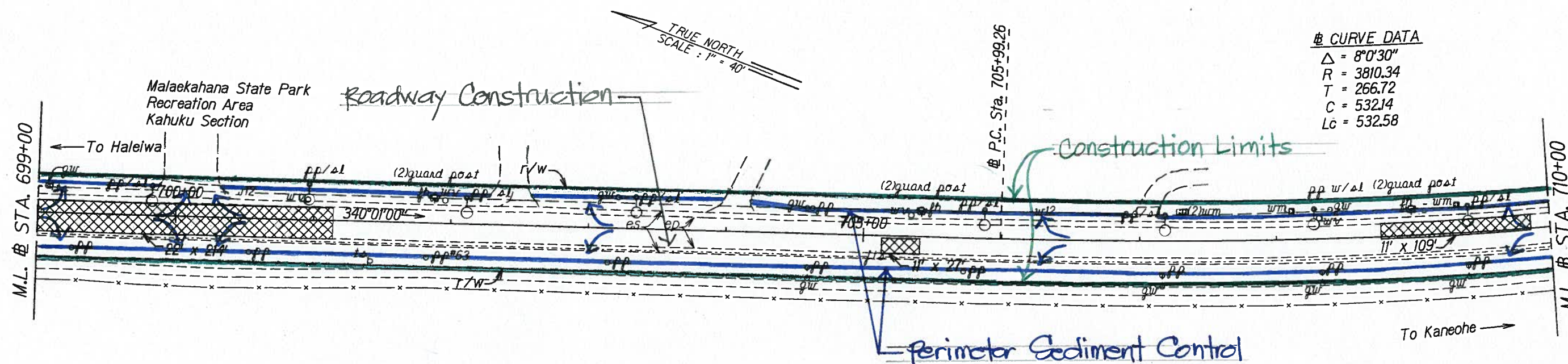
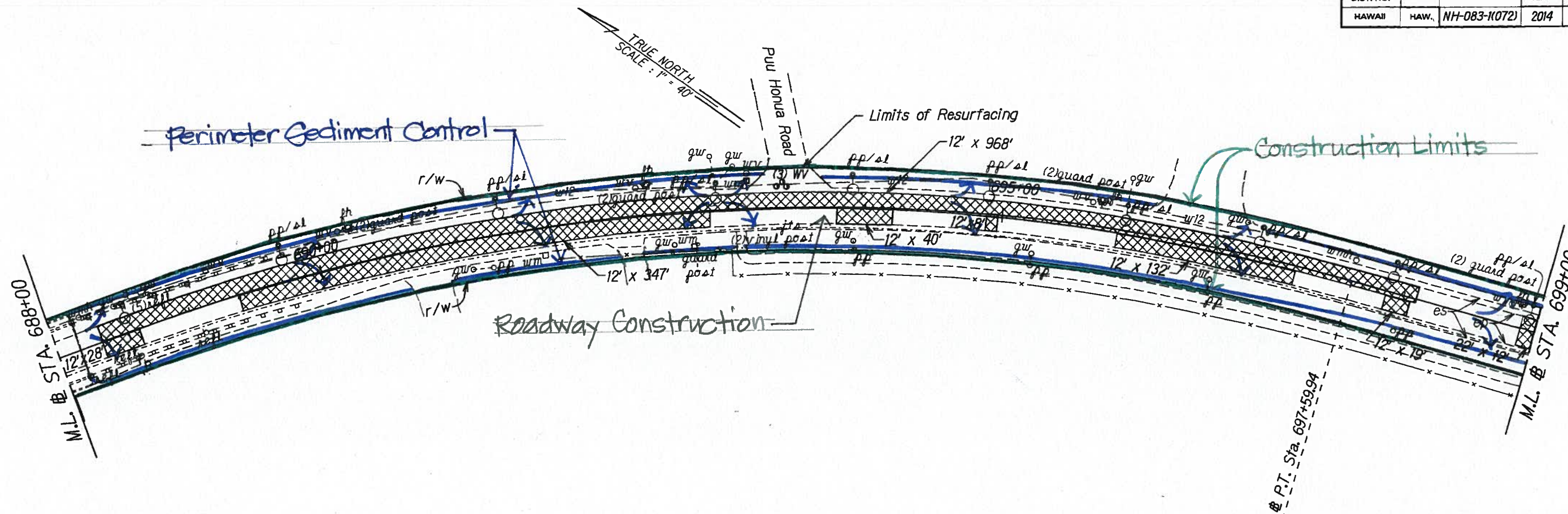
SURVEY PLOTTED BY	DATE
DRAWN BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiwai Bridge
Federal Aid Project No. NH-083-1(072)
Scale: 1" = 40' Date: March, 2014
SHEET No. 14 OF 20 SHEETS



BMP Plan - Road Construction
 (Roadway Construction - includes cold-planing, reconstruction of weakened pavement areas, and resurfacing)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-K072	2014	0	0



Curve Data

Δ	$8^{\circ}0'30''$
R	3810.34
T	266.72
C	532.14
L_c	532.58

BMP Plan- Road Construction
 (Road construction includes cold-planing, reconstruction of weakened pavement areas, and resurfacing)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLANS

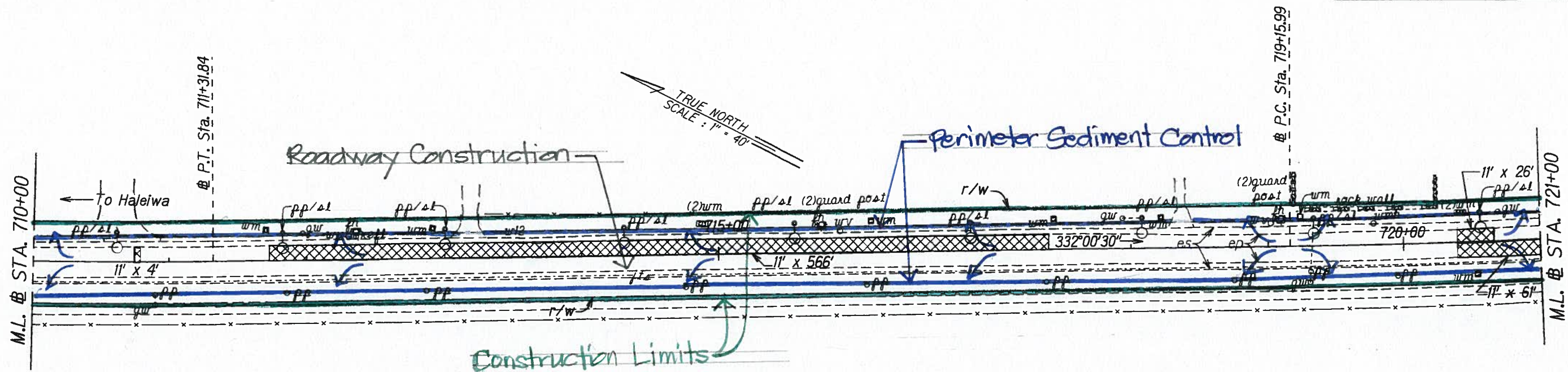
KAMEHAMEHA HIGHWAY RESURFACING
 Dairy Road to Laiewai Bridge
 Federal Aid Project No. NH-083-K072

Scale: 1" = 40' Date: March, 2014

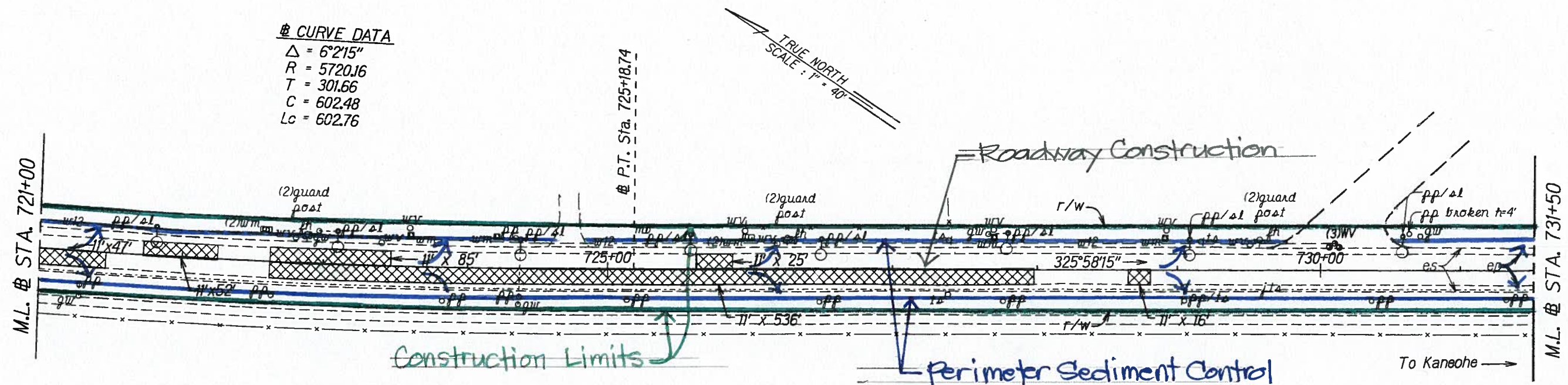
SHEET No. 17 OF 20 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-K072)	2014	0	0



§ CURVE DATA

$$\begin{aligned}\Delta &= 6^{\circ}2'15'' \\ R &= 5720.16 \\ T &= 301.66 \\ C &= 602.48 \\ Lc &= 602.76\end{aligned}$$


BMP Plan - Road Construction
(Roadway Construction - includes cold-planing, reconstruction of weakened pavement areas, and resurfacing)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING

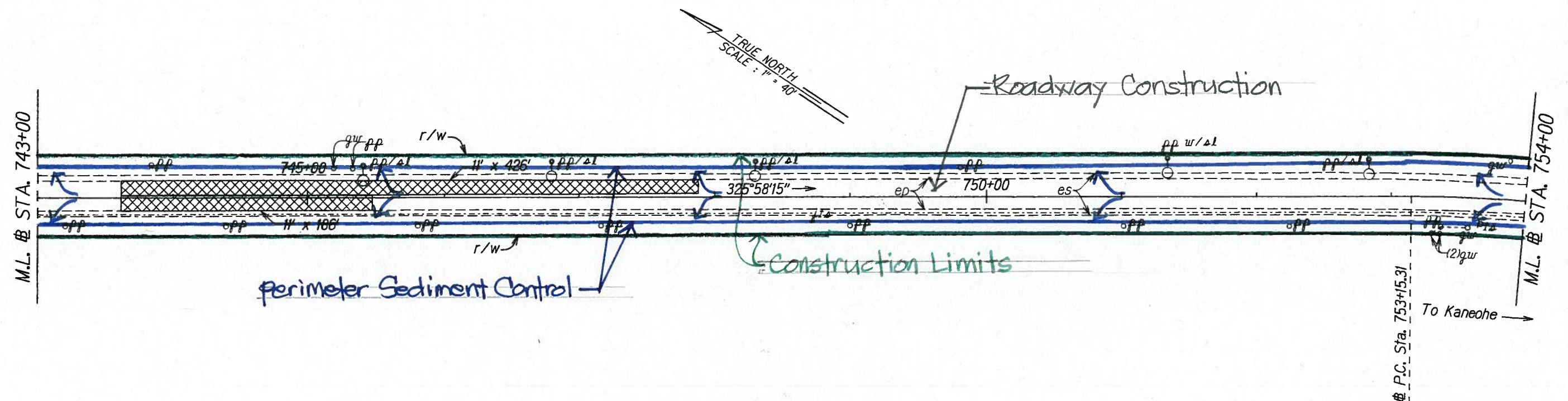
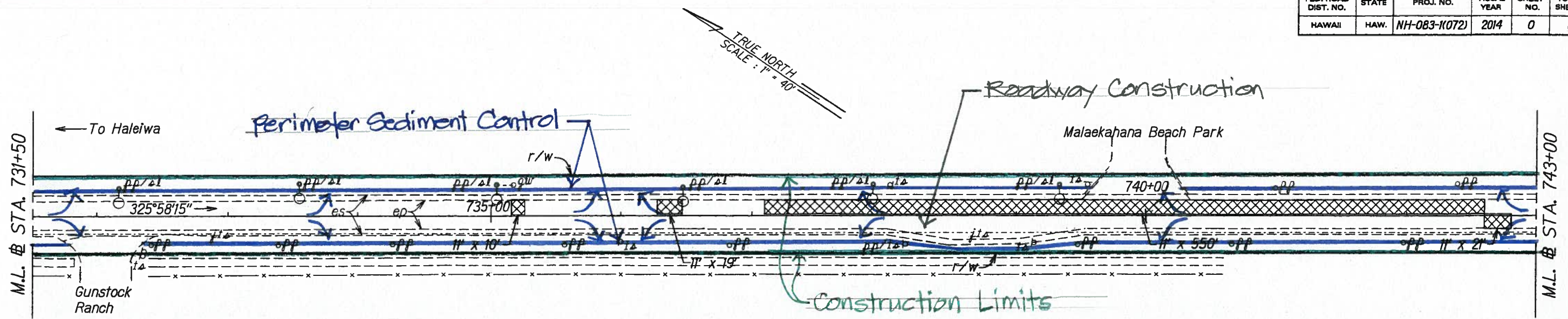
Dairy Road to Laiowai Bridge

Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 18 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1072	2014	0	0



BMP Plan- Road Construction
 (Roadway Construction- includes cold-planing,
 reconstruction of weakened pavement areas,
 and resurfacing)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

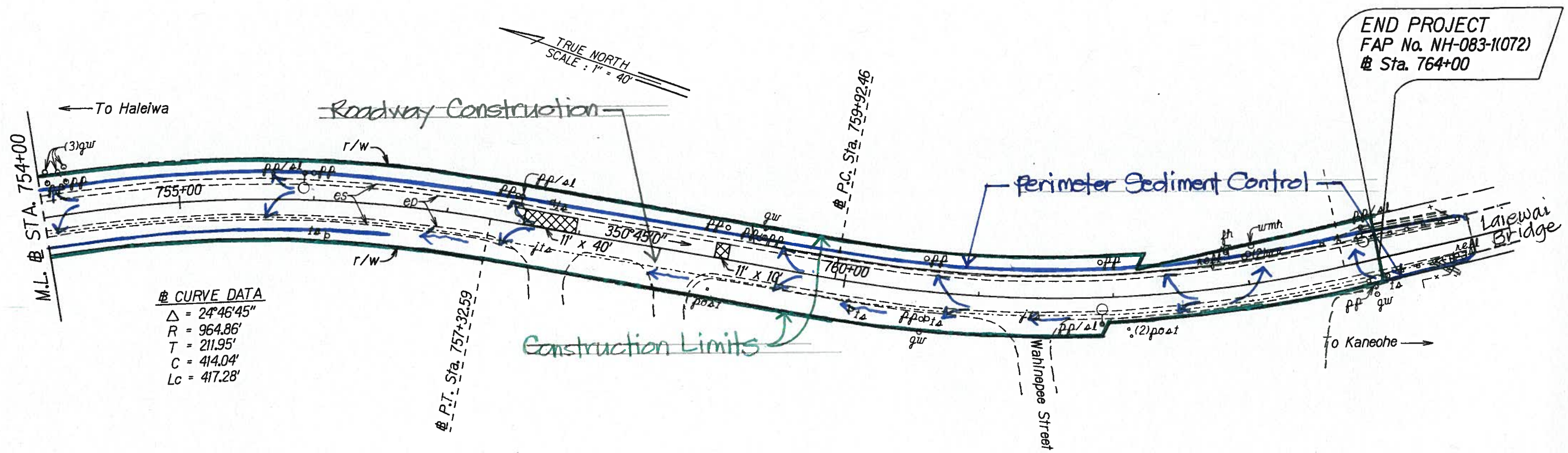
KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiewai Bridge
Federal Aid Project No. NH-083-1072

Scale: 1" = 40' Date: March, 2014

SHEET No. 19 OF 20 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTES BOOK	DRAWN BY	
N.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(072)	2014	0	0



CURVE DATA

Δ	= 24°46'45"
R	= 964.86'
T	= 211.95'
C	= 414.04'
Lc	= 417.28'

BMP Plan - Road Construction
 (Roadway Construction - includes cold-planing, reconstruction of weakened pavement areas, and resurfacing)

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
APPROVED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Dairy Road to Laiwai Bridge
Federal Aid Project No. NH-083-1(072)

Scale: 1" = 40' Date: March, 2014

SHEET No. 20 OF 20 SHEETS