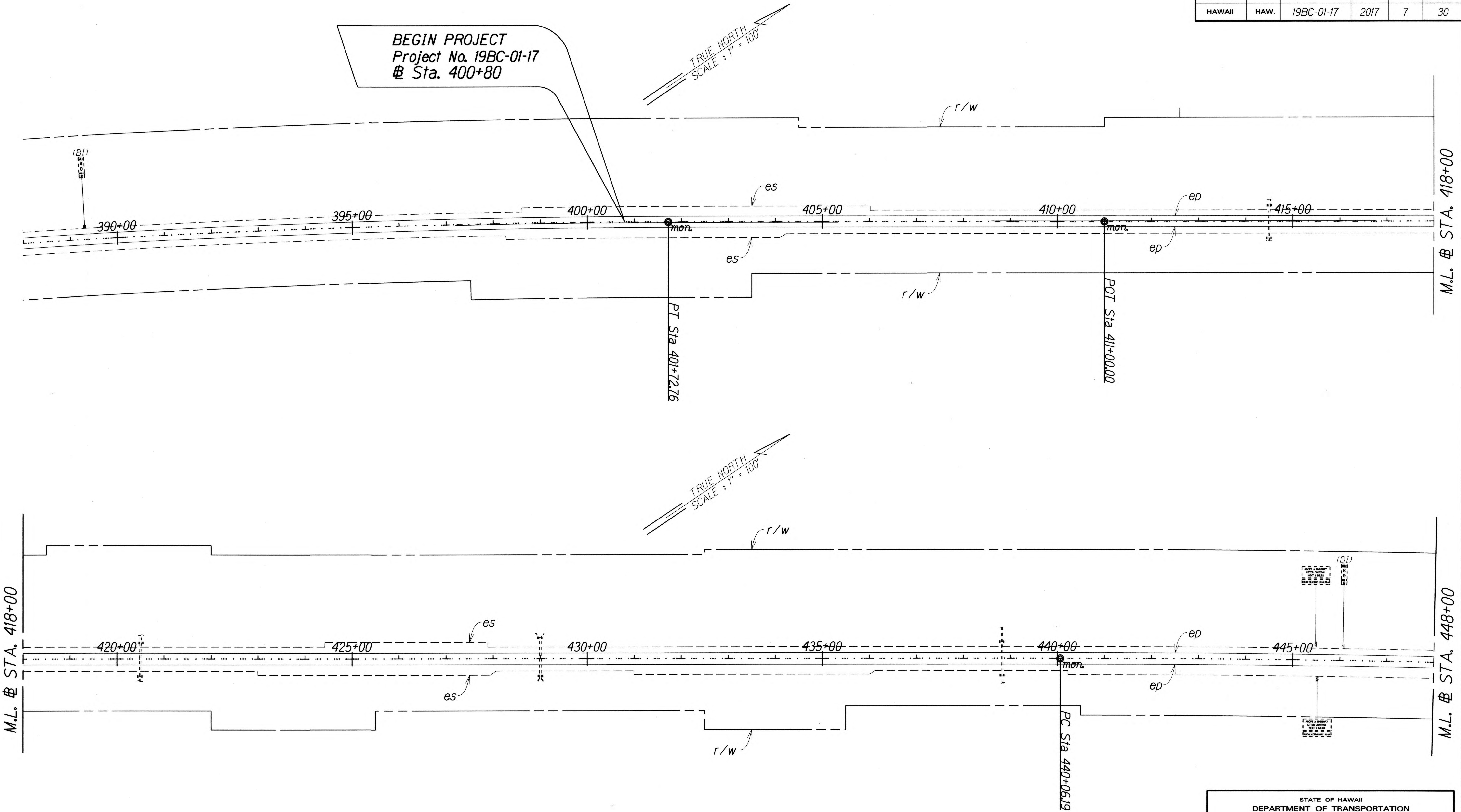


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	7	30



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

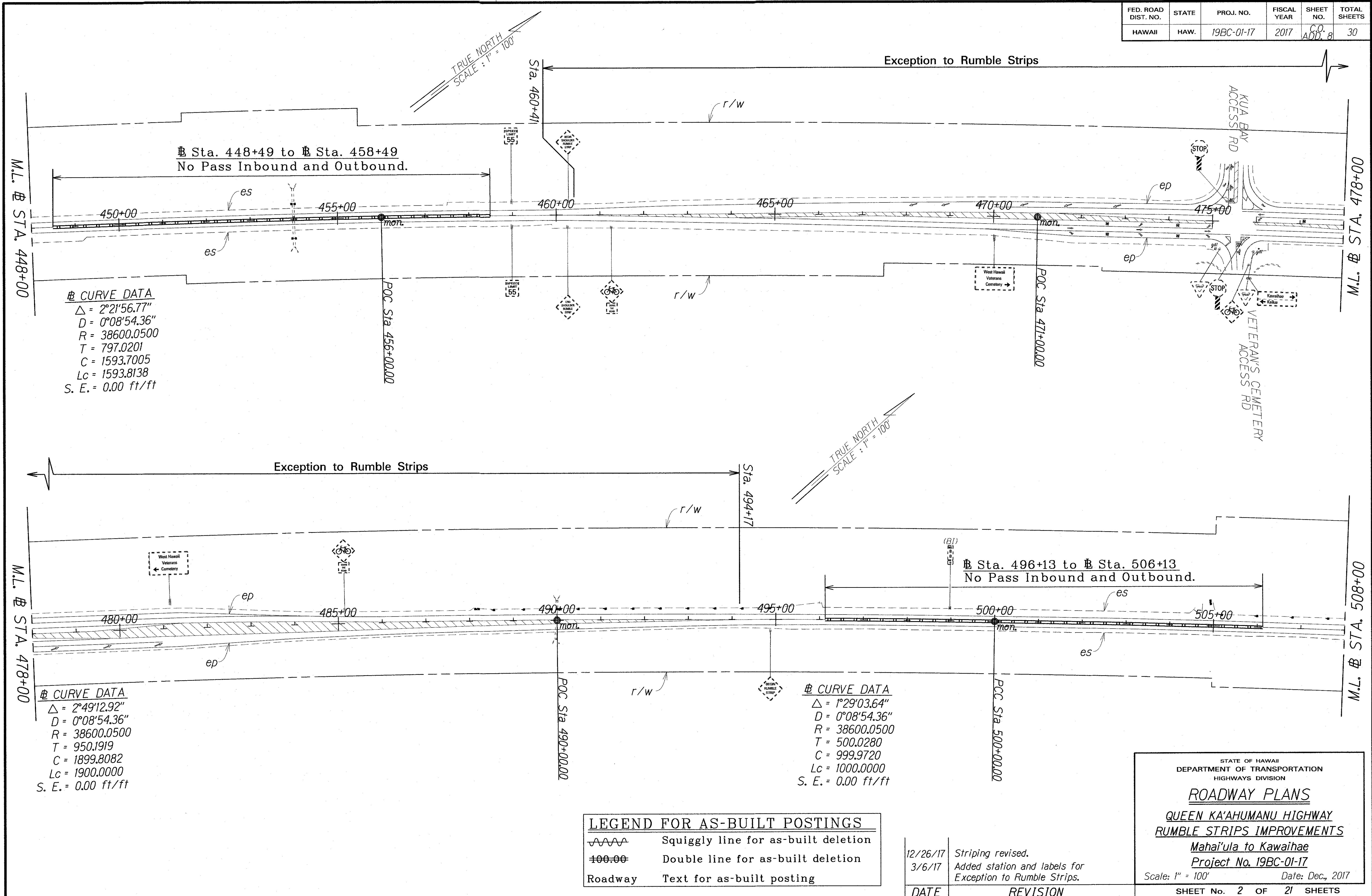
ROADWAY PLANS

QUEEN KA'AHUMANU HIGHWAY
RUMBLE STRIPS IMPROVEMENTS
Mahai'ula to Kawaihae
Project No. 19BC-01-17

Scale: 1" = 100' Date: Dec., 2016

SHEET No. 1 OF 21 SHEETS

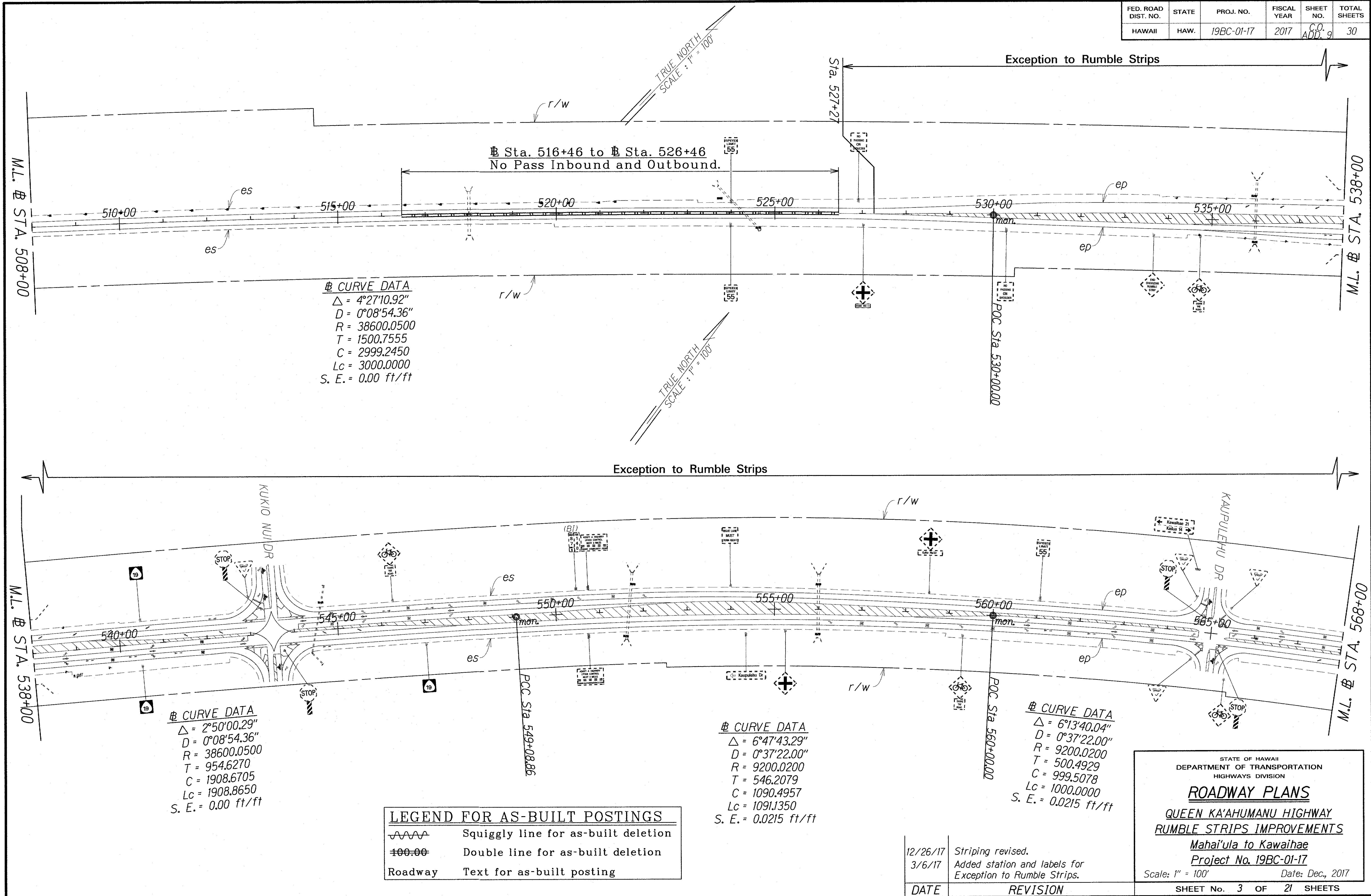
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 8	30



"AS-BUILT"

C.O. ADD. 8

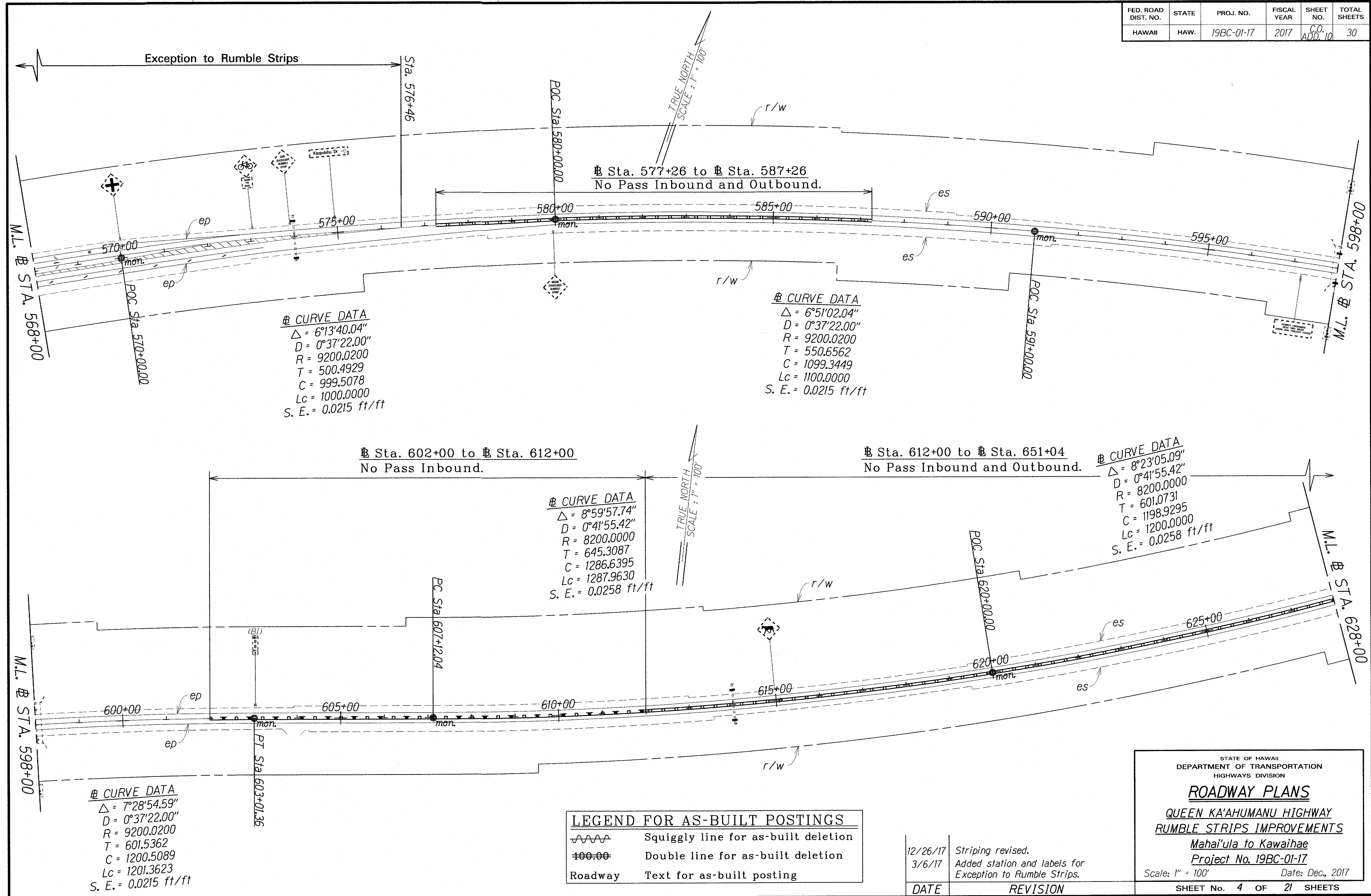
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 9	30



"AS-BUILT"

C.O. ADD. 9

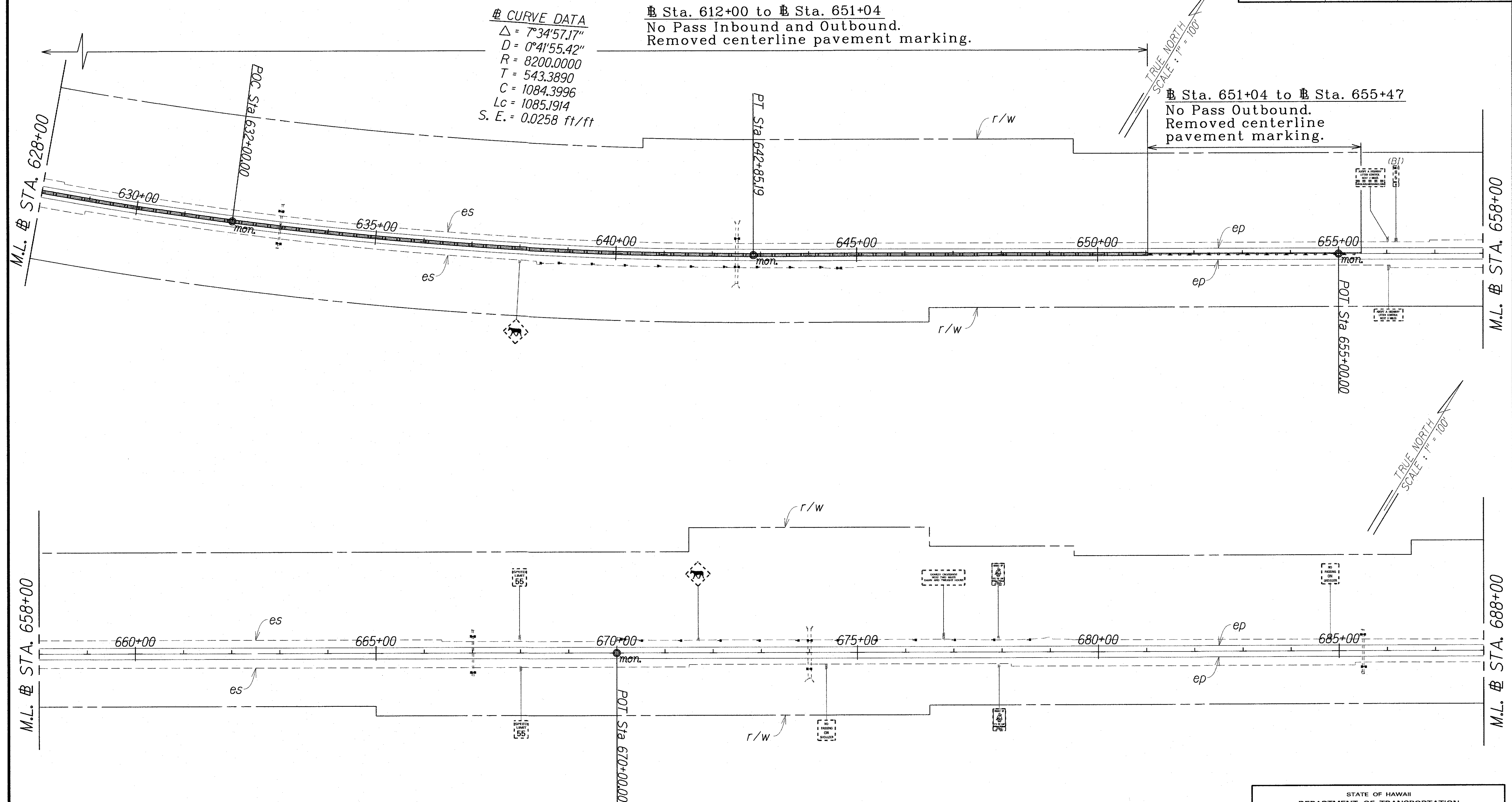
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 10	30



"AS-BUILT"

C.O. ADD. 10

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	11	30



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

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

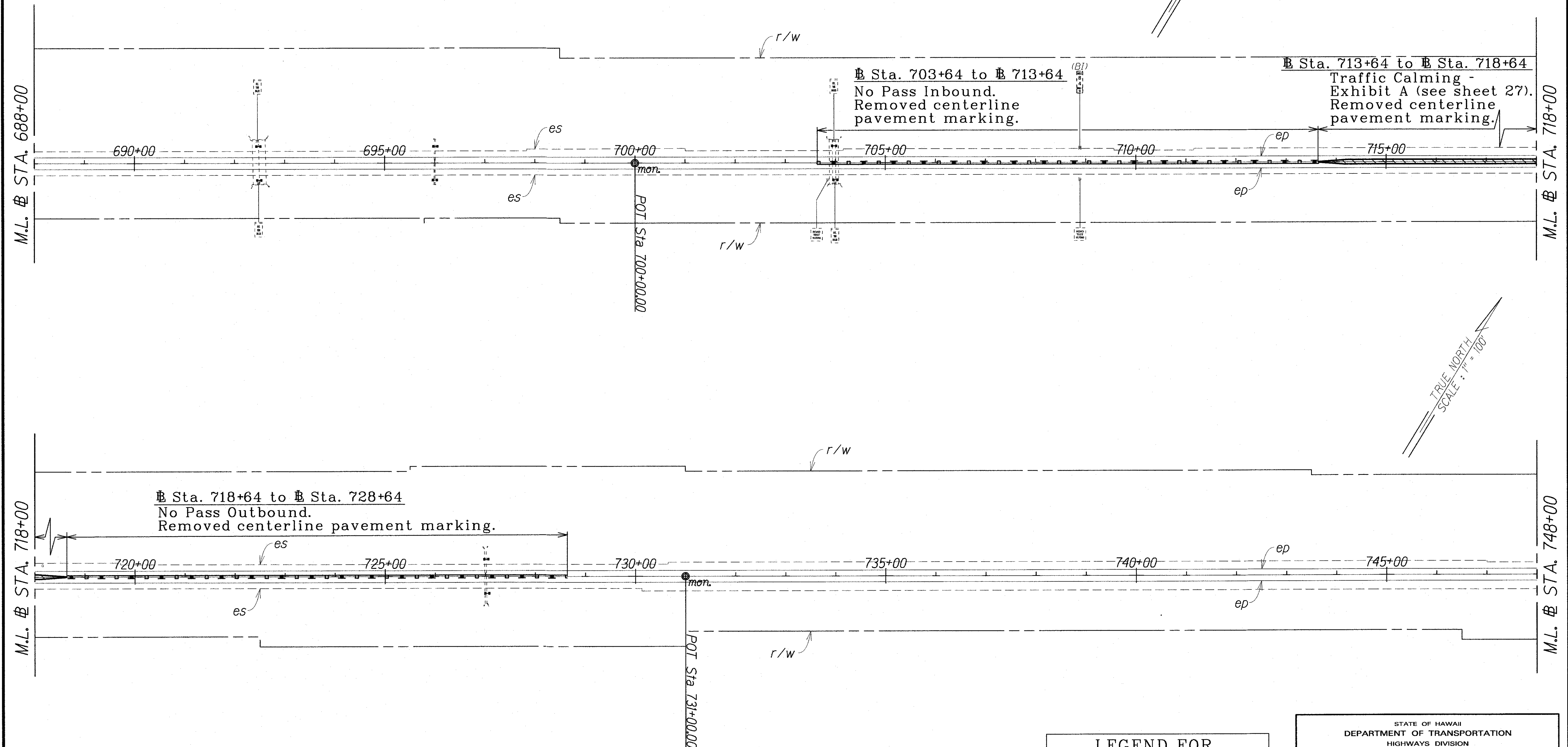
ROADWAY PLANS

QUEEN KA'AHUMANU HIGHWAY
RUMBLE STRIPS IMPROVEMENTS
Mahai'ula to Kawaihae
Project No. 19BC-01-17

Scale: 1" = 100' Date: Dec., 2016

SHEET No. 5 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	12	30



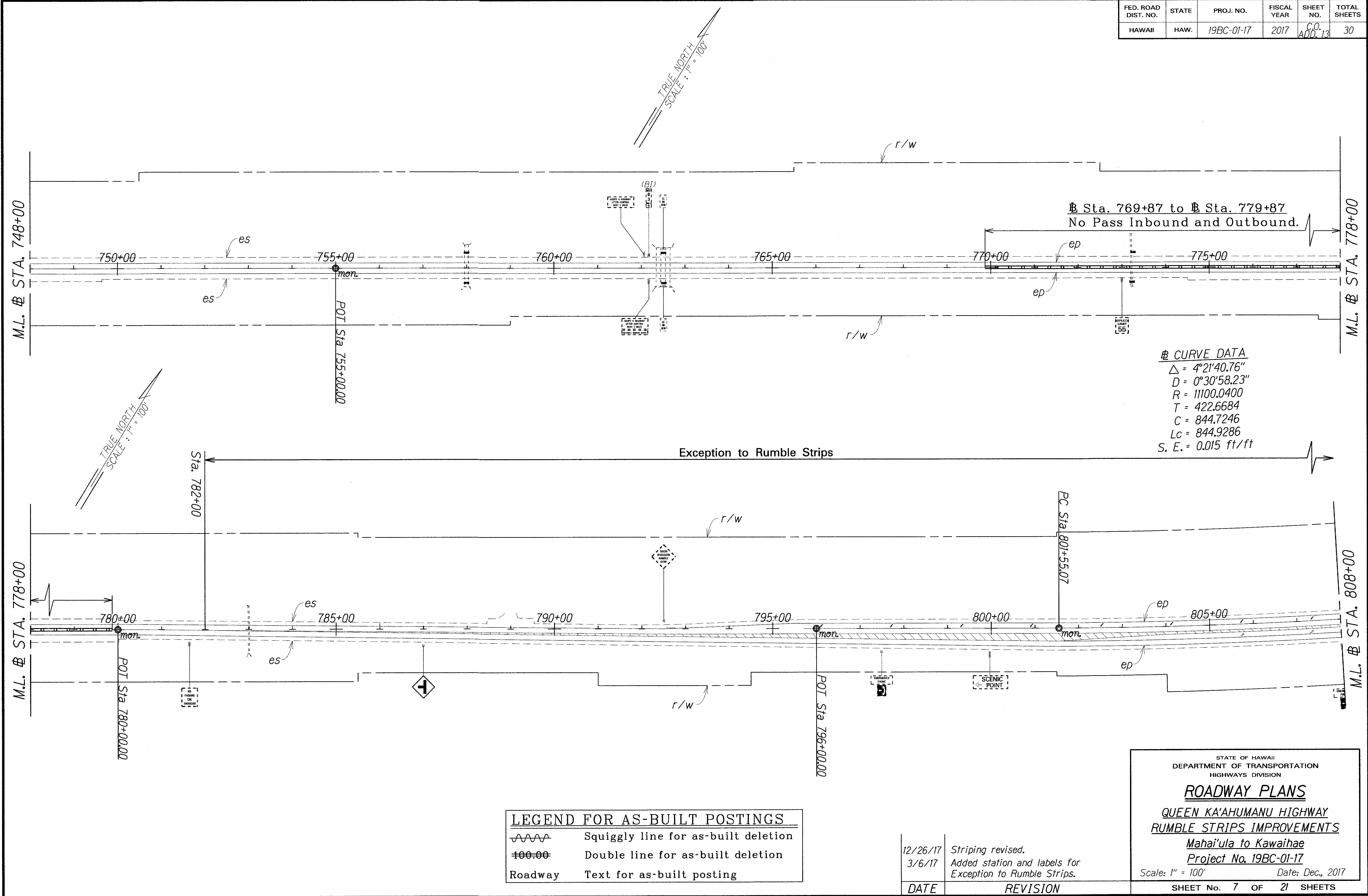
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY	DRAWN BY	
NOTED BY	DESIGNED BY	
CHECKED BY	CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PLANS	
QUEEN KA'AHUMANU HIGHWAY	
RUMBLE STRIPS IMPROVEMENTS	
Mahai'ula to Kawaihae	
Project No. 19BC-01-17	
Scale: 1" = 100'	Date: Dec., 2016
SHEET No. 6 OF 21 SHEETS	

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 13	30



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

12/26/17	Striping revised.
3/6/17	Added station and labels for Exception to Rumble Strips.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

QUEEN KA'AHUMANU HIGHWAY

RUMBLE STRIPS IMPROVEMENTS

Mahai'ula to Kawaihae

Project No. 19BC-01-17

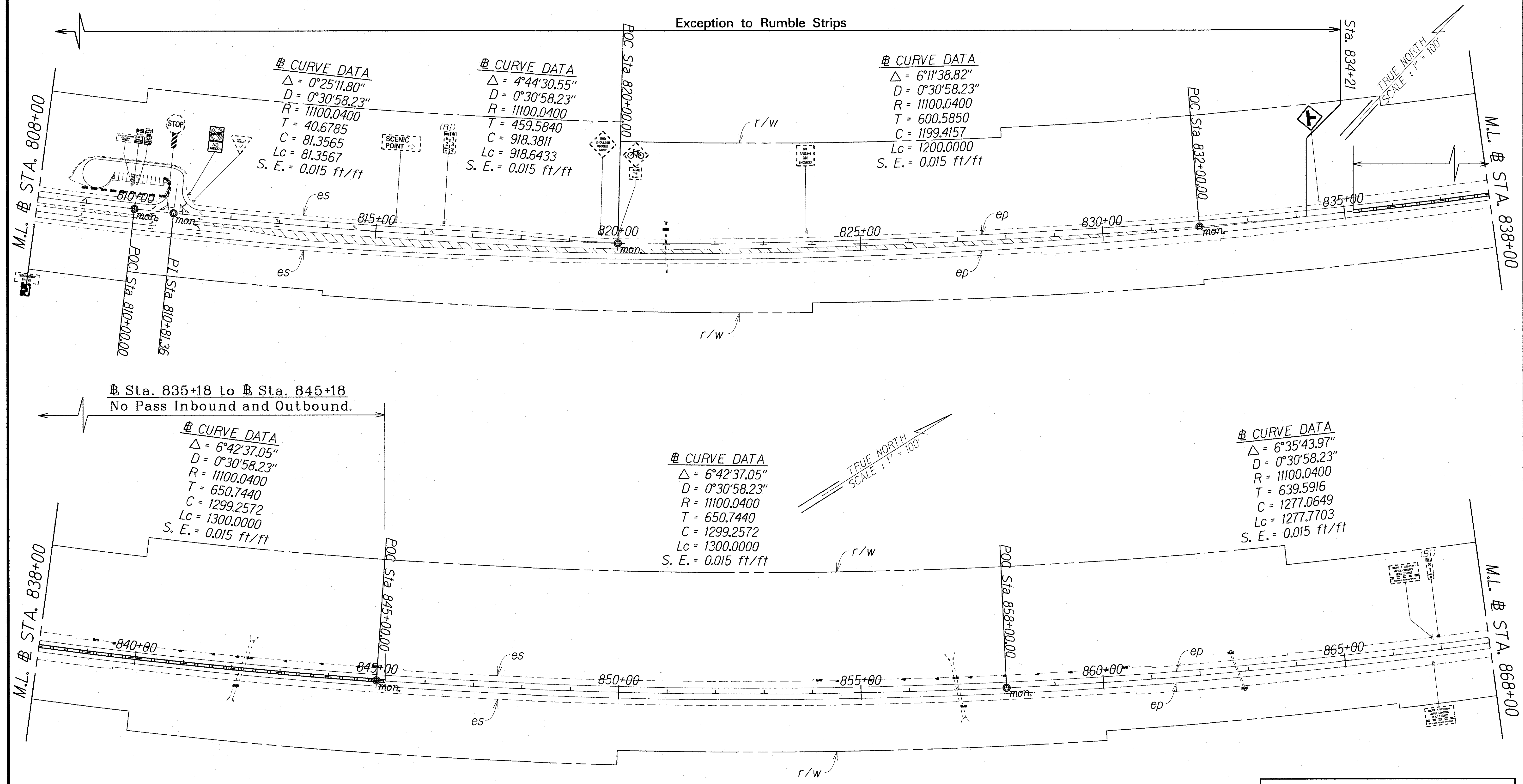
Scale: 1" = 100' Date: Dec., 2017

SHEET No. 7 OF 21 SHEETS

"AS-BUILT"

C.O. ADD. 13

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 14	30



SURVEY LOCATED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

DATE	REVISION
12/26/17	Striping revised.
3/6/17	Added station and labels for Exception to Rumble Strips.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

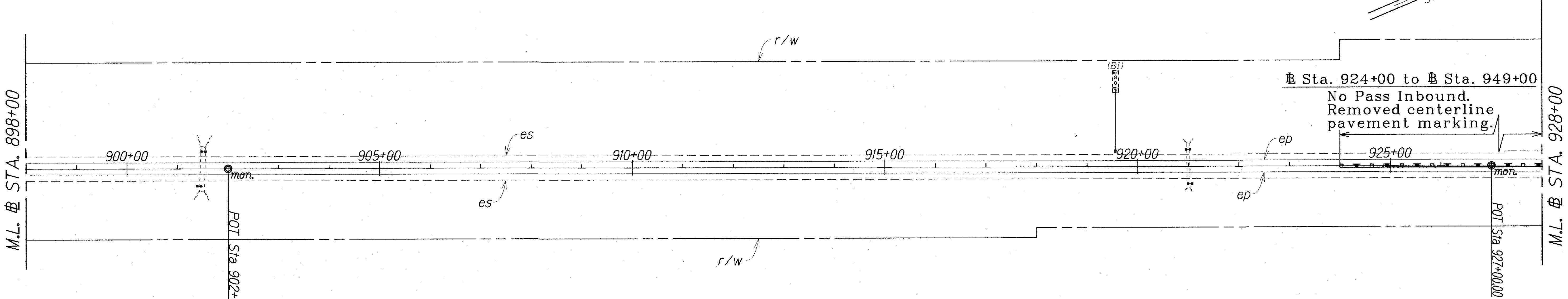
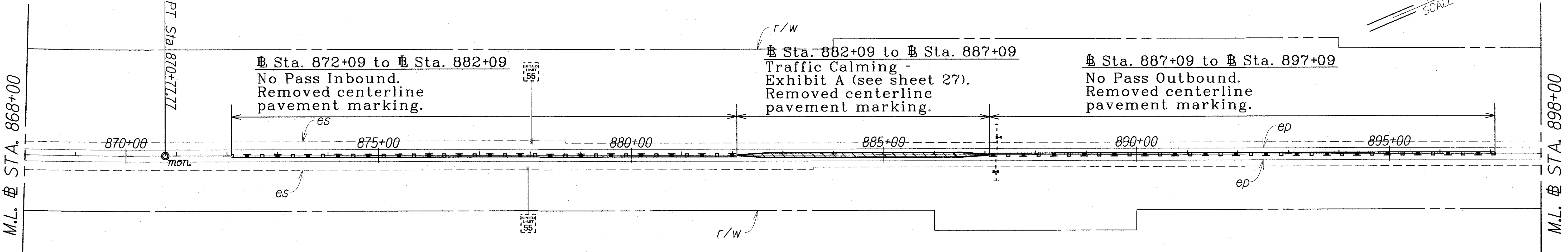
QUEEN KA'AHUMANU HIGHWAY
RUMBLE STRIPS IMPROVEMENTS
Mahai'ula to Kawaihae
Project No. 19BC-01-17

Scale: 1" = 100' Date: Dec., 2017

SHEET No. 8 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	15	30

TRUE NORTH
SCALE: 1" = 100'



TRUE NORTH
SCALE: 1" = 100'

DESIGNED BY	DATE
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

QUEEN KA'AHUMANU HIGHWAY

RUMBLE STRIPS IMPROVEMENTS

Mahai'ula to Kawaihae

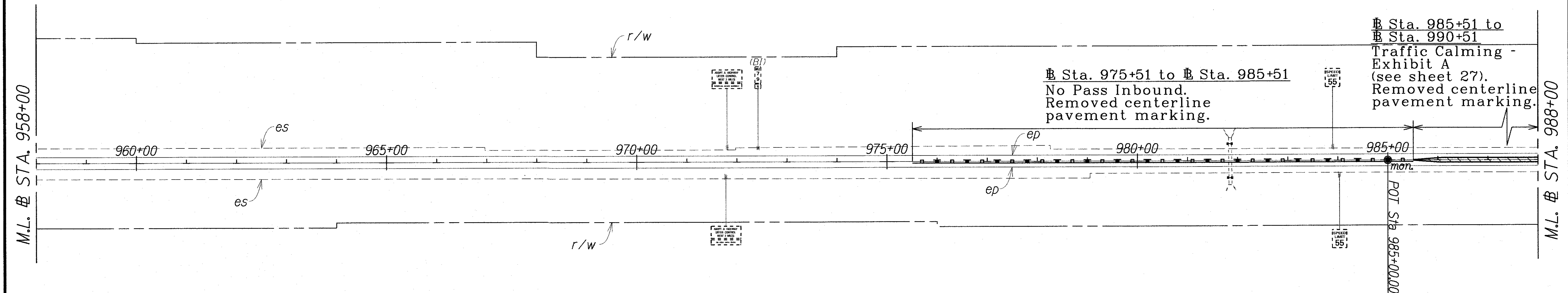
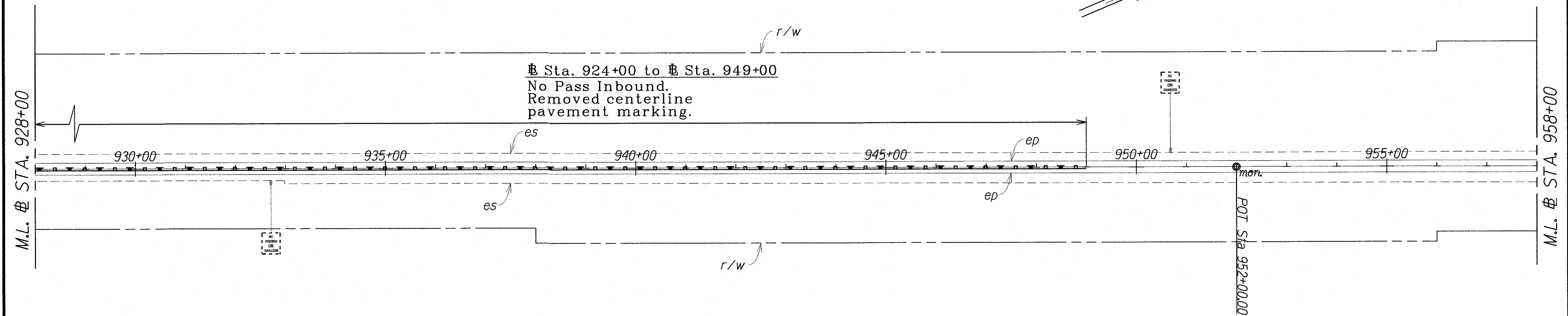
Project No. 19BC-01-17

Scale: 1" = 100' Date: Dec., 2016

SHEET No. 9 OF 21 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	16	30



ORIGINAL PLAN	DATE
DRAWN BY	
NOTED BY	
CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

QUEEN KA'AHUMANU HIGHWAY
RUMBLE STRIPS IMPROVEMENTS
Mahai'ula to Kawaihae
Project No. 19BC-01-17

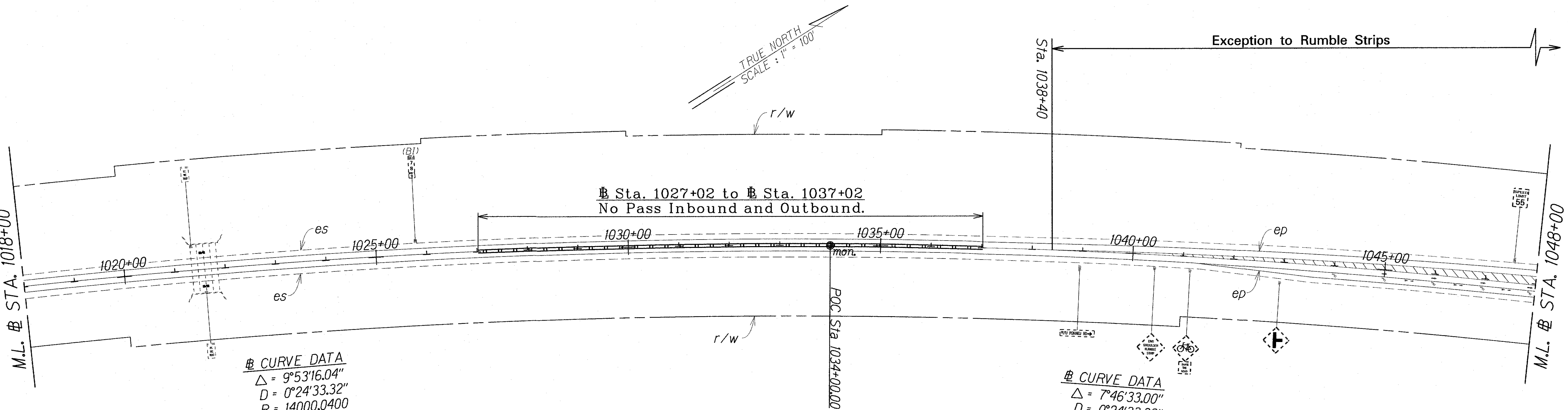
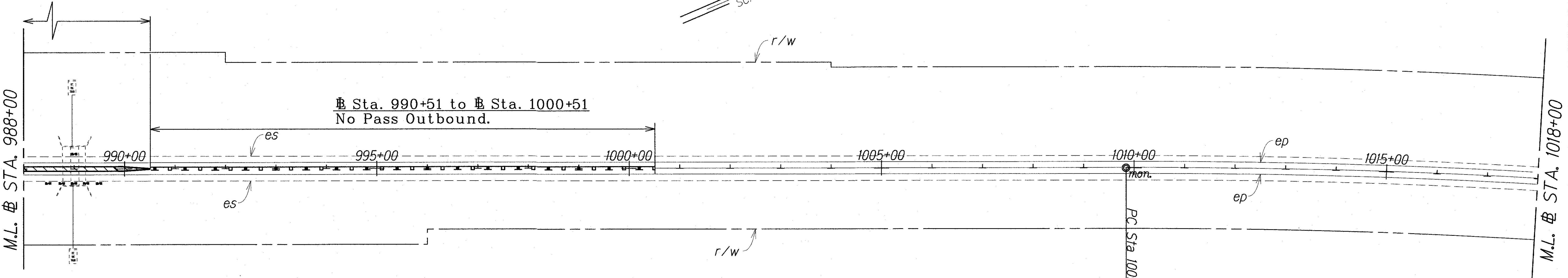
Scale: 1" = 100' Date: Dec., 2016

SHEET No. 10 OF 21 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 17	30

Sta. 985+51 to Sta. 990+51
Traffic Calming -
Exhibit A (see sheet 27).



CURVE DATA
 $\Delta = 9^{\circ}53'16.04''$
 $D = 0^{\circ}24'33.32''$
 $R = 14000.0400$
 $T = 1211.0320$
 $C = 2413.0528$
 $Lc = 2416.0498$
 $S. E. = 0.00 \text{ ft/ft}$

CURVE DATA
 $\Delta = 7^{\circ}46'33.00''$
 $D = 0^{\circ}24'33.32''$
 $R = 14000.0400$
 $T = 951.4608$
 $C = 1898.5422$
 $Lc = 1900.0000$
 $S. E. = 0.00 \text{ ft/ft}$

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

12/26/17	Striping revised.
3/6/17	Added station and labels for Exception to Rumble Strips.

DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
QUEEN KA'AHUMANU HIGHWAY
RUMBLE STRIPS IMPROVEMENTS
Mahai'ula to Kawaihae
Project No. 19BC-01-17
Scale: 1" = 100'

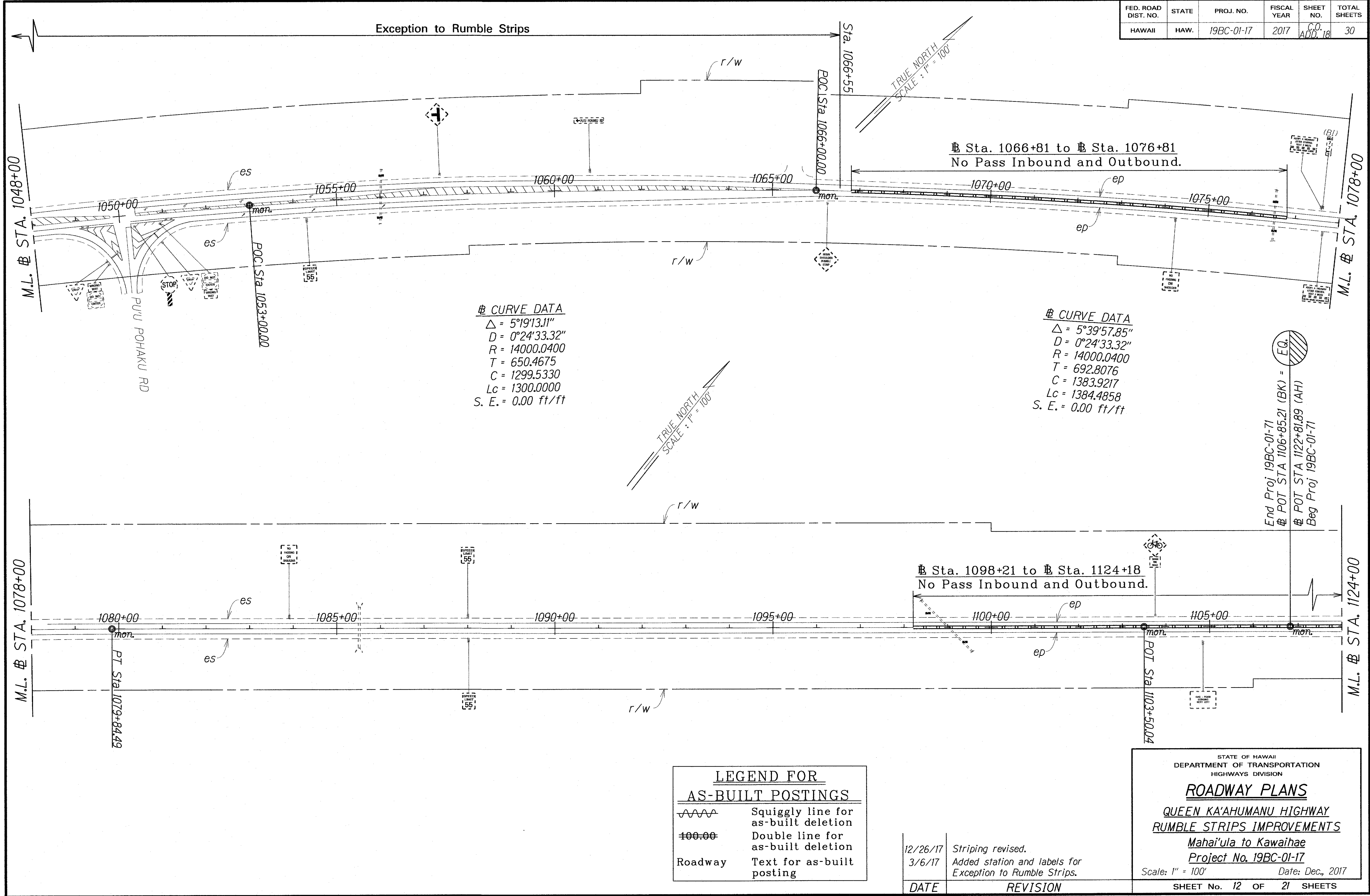
Date: Dec., 2017
SHEET No. 11 OF 21 SHEETS

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

"AS-BUILT"

C.O. ADD. 17

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 18	30



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

DATE	REVISION
12/26/17	Striping revised.
3/6/17	Added station and labels for Exception to Rumble Strips.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

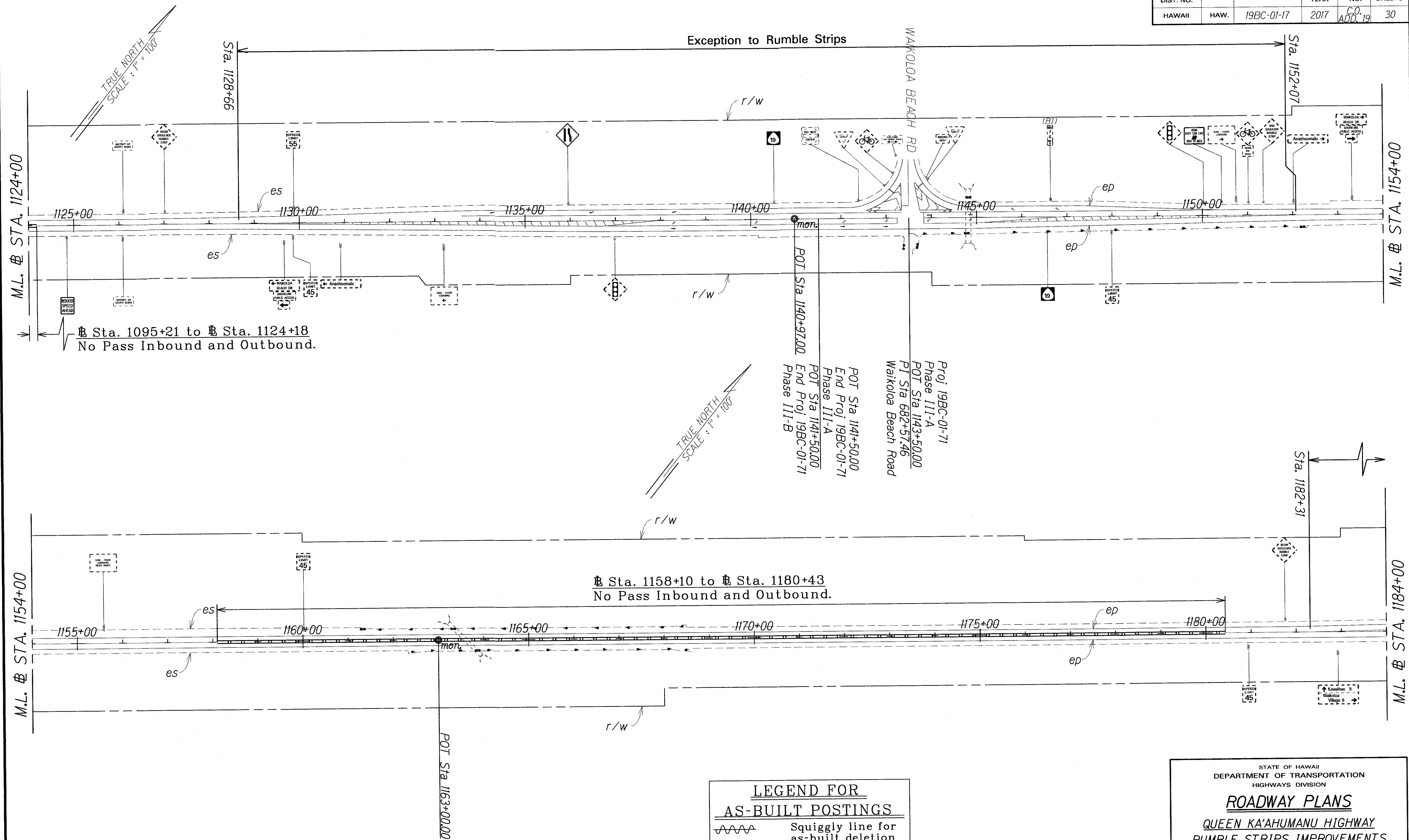
ROADWAY PLANS

QUEEN KA'AHUMANU HIGHWAY
RUMBLE STRIPS IMPROVEMENTS
Mahai'ula to Kawaihae
Project No. 19BC-01-17

Scale: 1" = 100' Date: Dec., 2017

SHEET No. 12 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 19	30



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
11/2/17	DESIGNED BY	
11/2/17	CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

DATE	REVISION
12/26/17	Striping revised.
3/6/17	Added station and labels for Exception to Rumble Strips.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

QUEEN KA'AHUMANU HIGHWAY

RUMBLE STRIPS IMPROVEMENTS

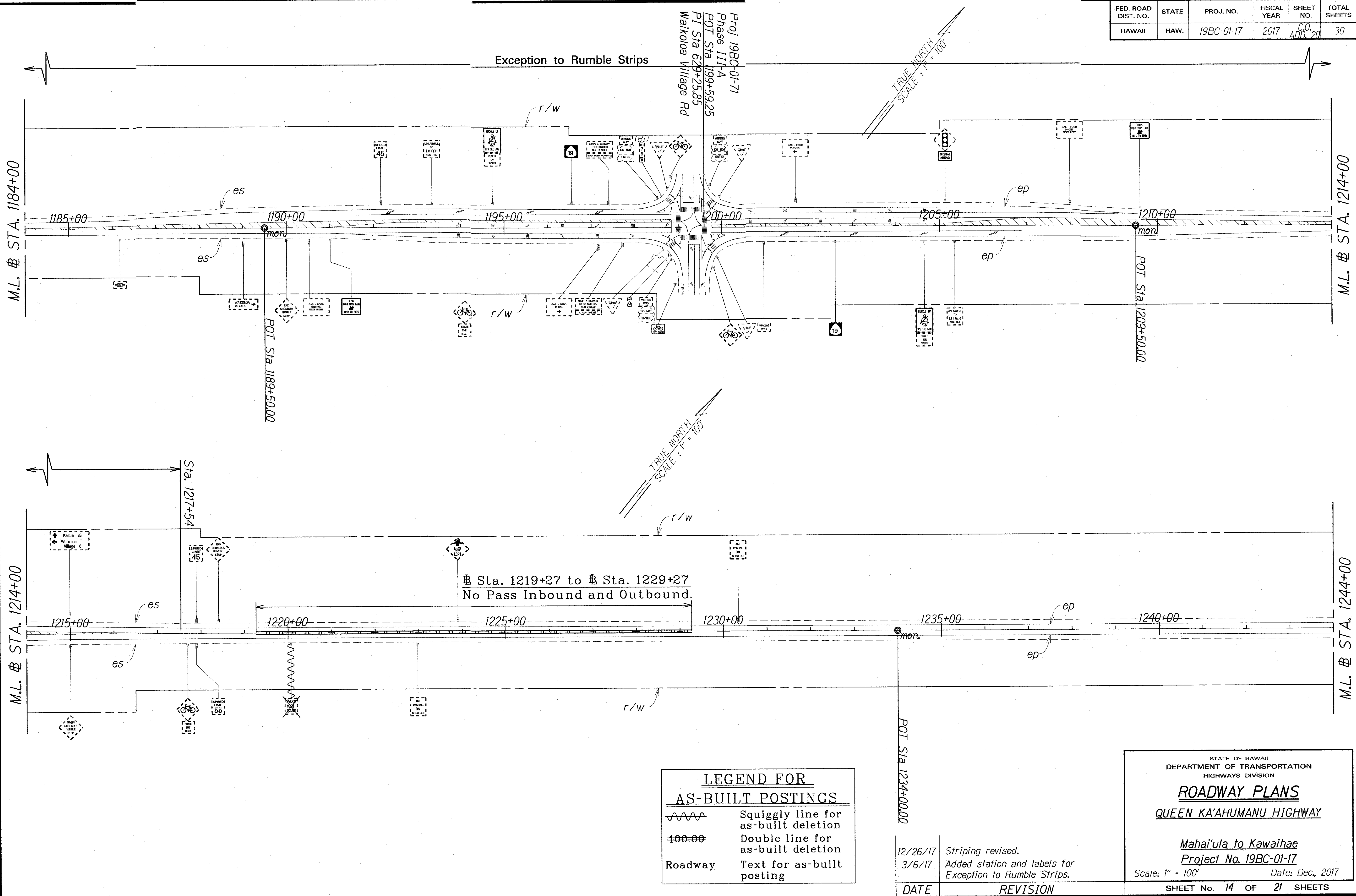
Maha'ula to Kawaihae

Project No. 19BC-01-17

Scale: 1" = 100' Date: Dec., 2017

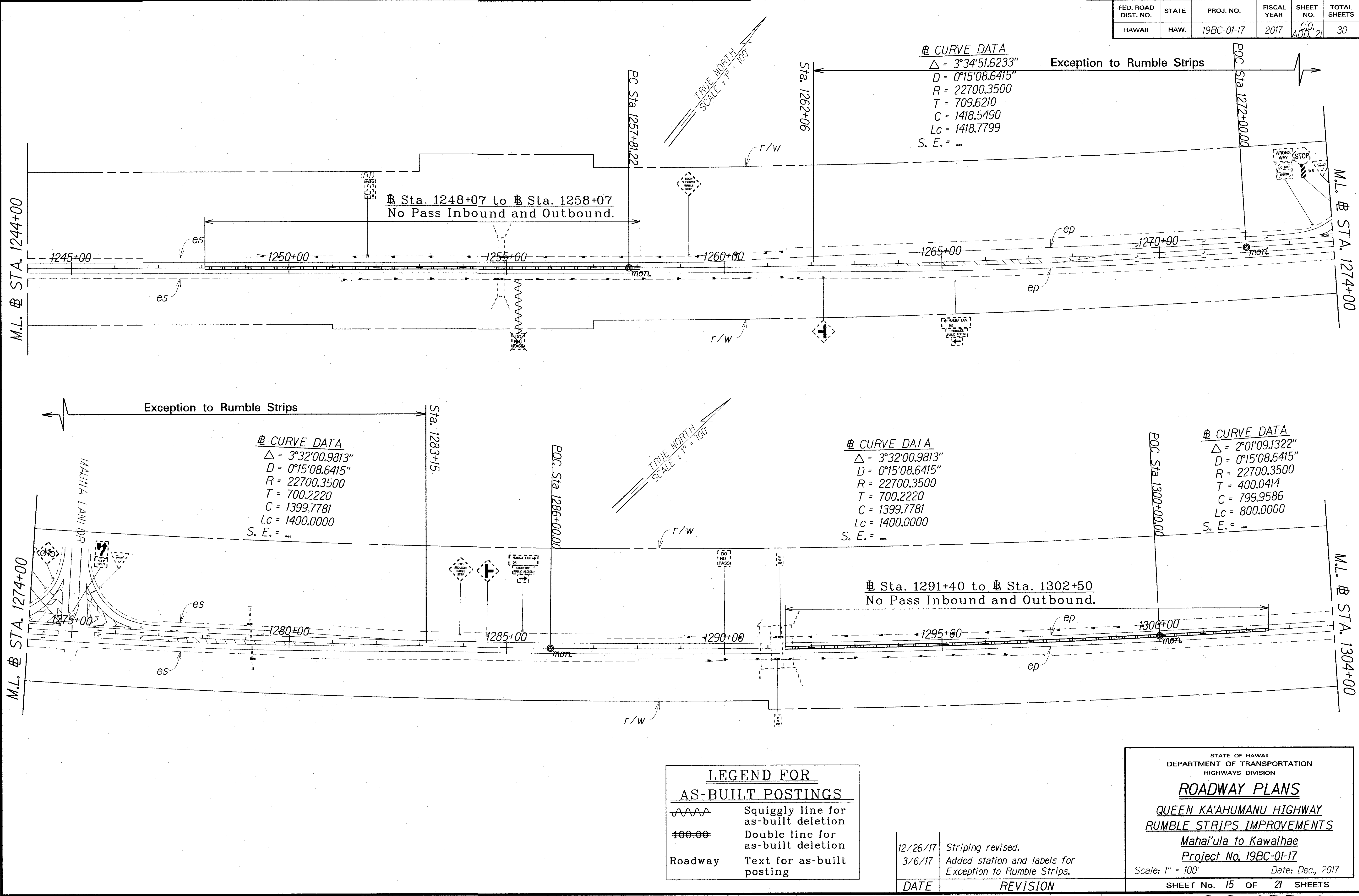
SHEET No. 13 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 20	30



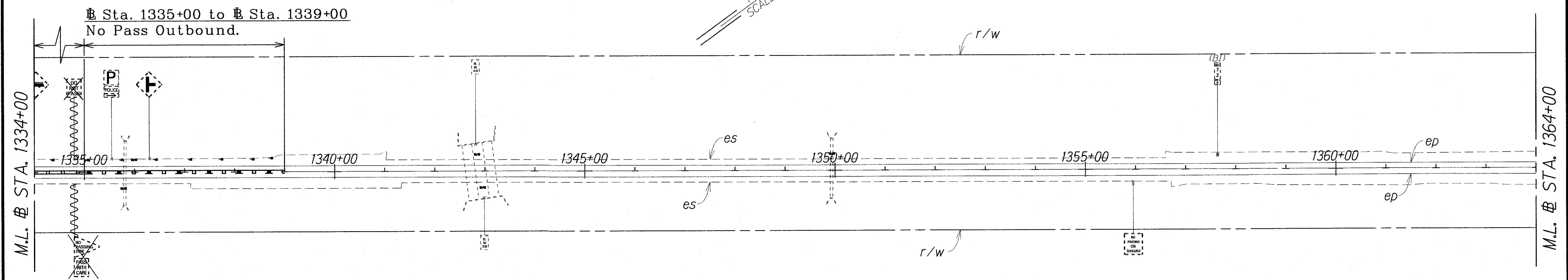
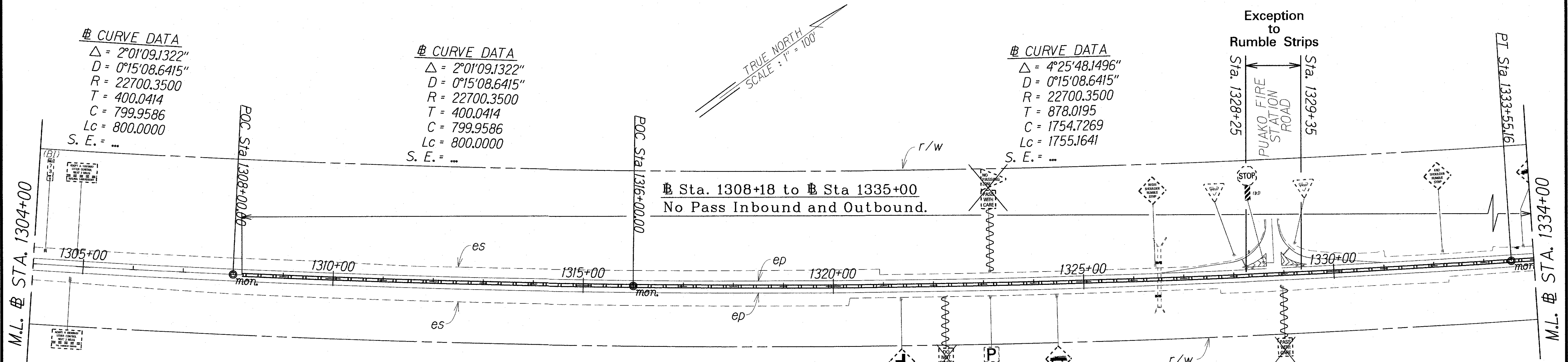
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
CHECKED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 21	30



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.	19BC-01-17	2017	C.O. ADD. 22	30



DATE	BY
12/26/17	DESIGNED BY
3/6/17	CHECKED BY

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

12/26/17	Striping revised.
3/6/17	Added station and labels for Exception to Rumble Strips.
	Labeled Puako Fire Station Access Road.

DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

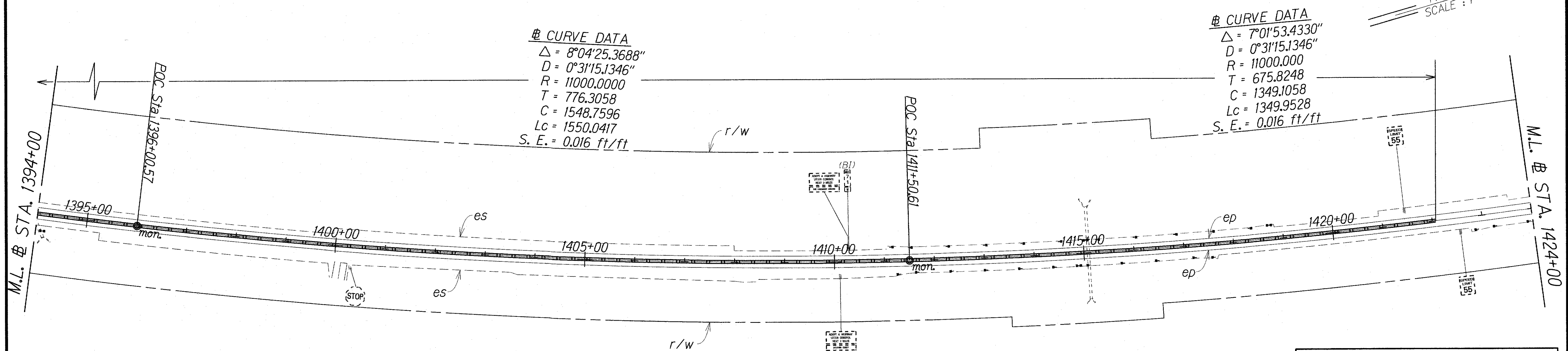
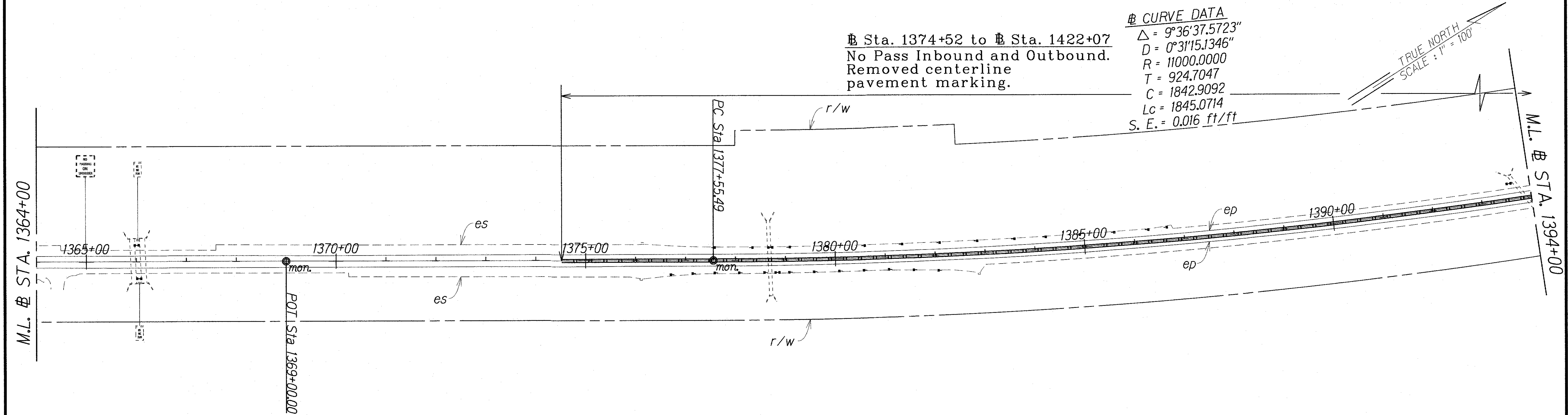
ROADWAY PLANS
QUEEN KA'AHUMANU HIGHWAY
RUMBLE STRIPS IMPROVEMENTS
Mahai'ula to Kawaihae
Project No. 19BC-01-17
Scale: 1" = 100' Date: Dec., 2017

SHEET No. 16 OF 21 SHEETS

"AS-BUILT"

C.O. ADD. 22

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	23	30



DATE	12/1/2016
SURVEY PLOTTED BY	W. J. HARRIS
DRAWN BY	W. J. HARRIS
DESIGNED BY	W. J. HARRIS
QUANTITIES BY	W. J. HARRIS
CHECKED BY	W. J. HARRIS

LEGEND FOR AS-BUILT POSTINGS

	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

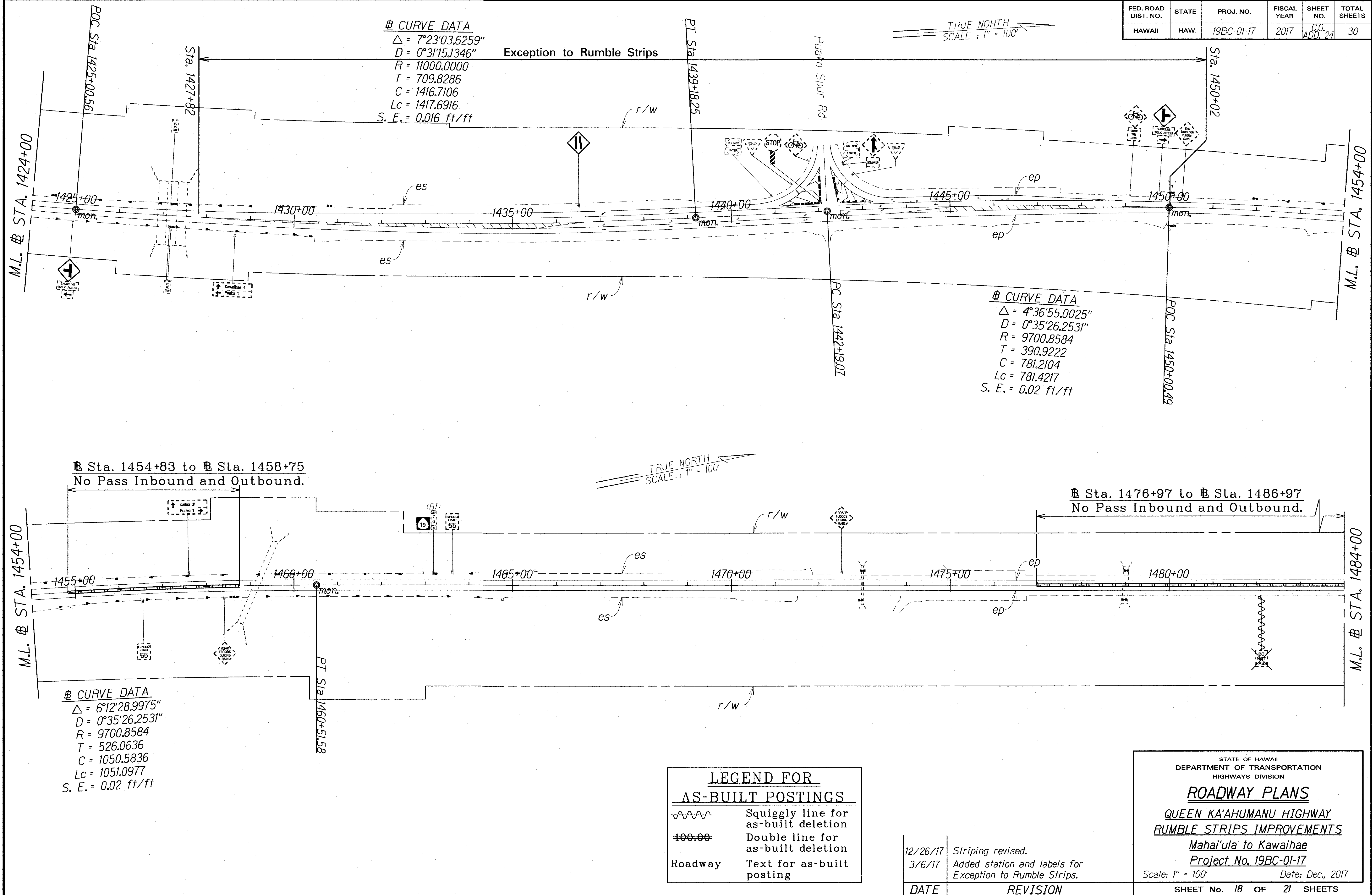
QUEEN KA'AHUMANU HIGHWAY
RUMBLE STRIPS IMPROVEMENTS
Mahai'ula to Kawaihae
Project No. 19BC-01-17

Scale: 1" = 100' Date: Dec., 2016

SHEET No. 17 OF 21 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	C.O. ADD. 24	30



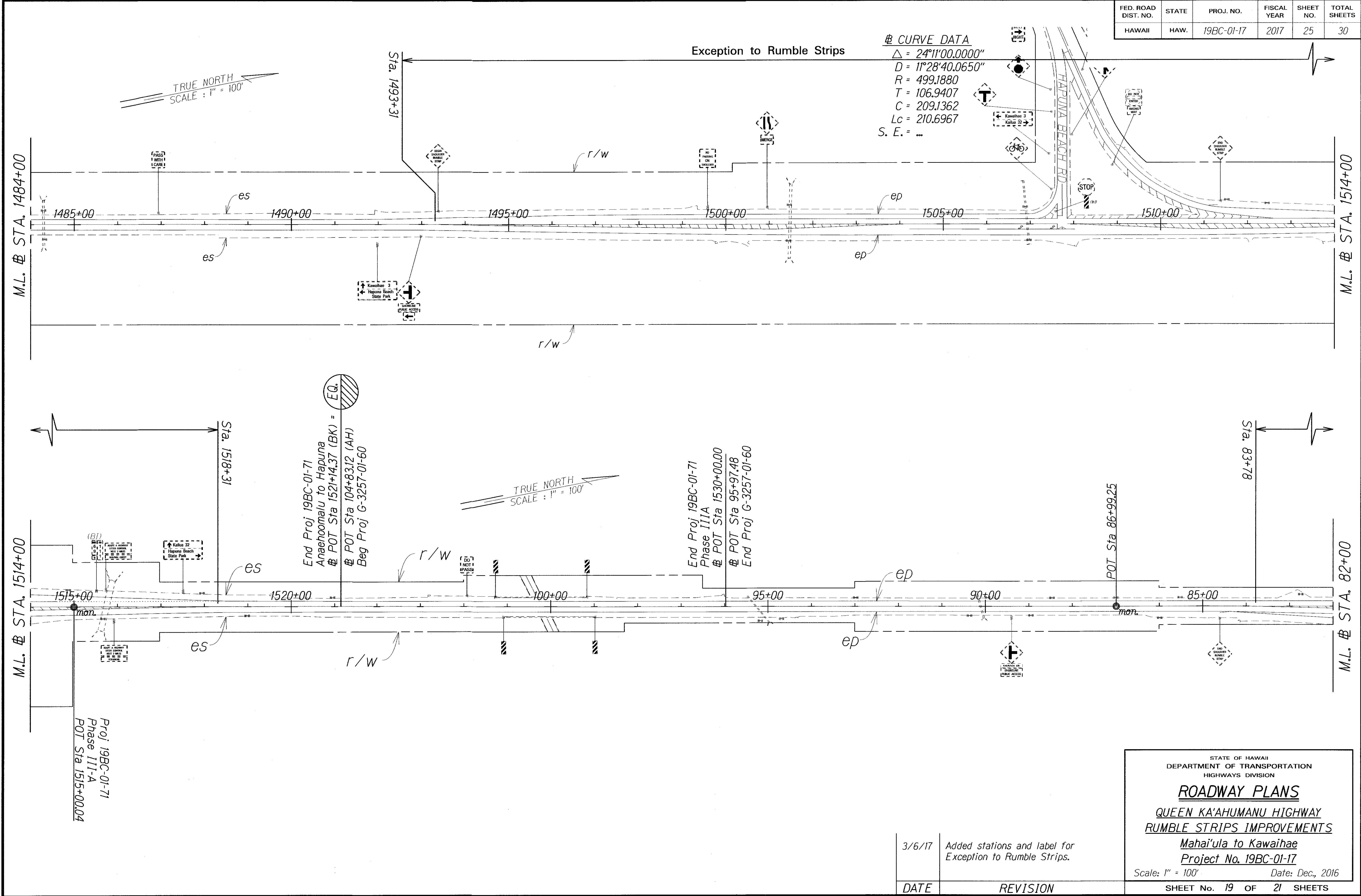
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

12/26/17	Striping revised.
3/6/17	Added station and labels for Exception to Rumble Strips.
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PLANS	
QUEEN KA'AHUMANU HIGHWAY RUMBLE STRIPS IMPROVEMENTS Mahai'ula to Kawaihae Project No. 19BC-01-17	
Scale: 1" = 100'	Date: Dec., 2017
SHEET No. 18 OF 21 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	25	30



ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
CHECKED BY	

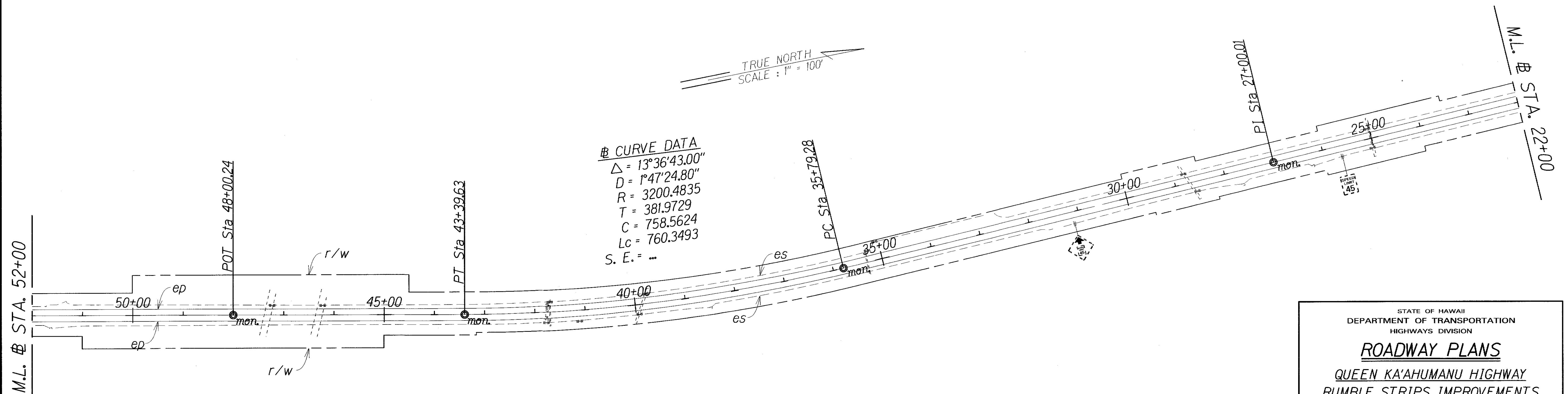
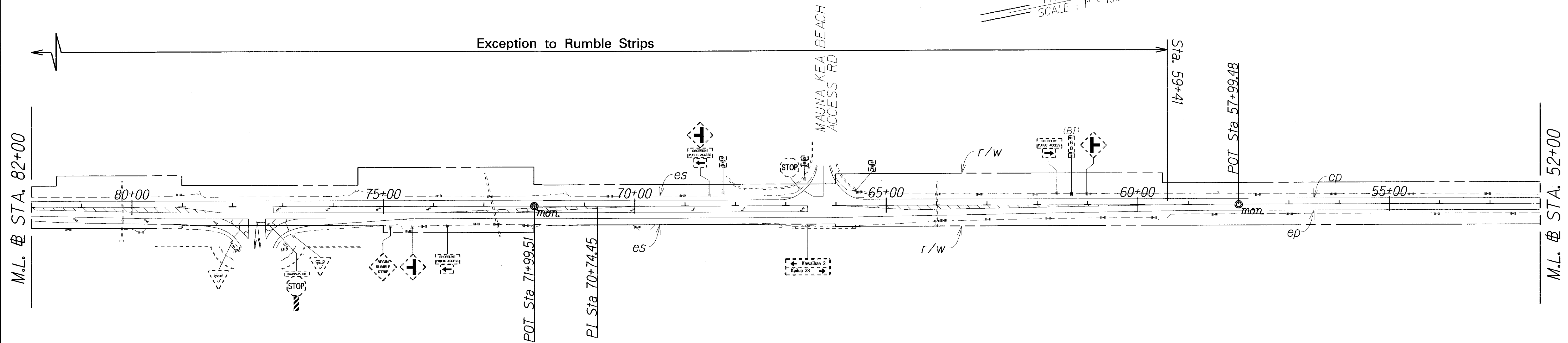
3/6/17	Added stations and label for Exception to Rumble Strips.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
QUEEN KA'AHUMANU HIGHWAY
RUMBLE STRIPS IMPROVEMENTS
Mahai'ula to Kawaihae
Project No. 19BC-01-17
Scale: 1" = 100'
Date: Dec., 2016

SHEET No. 19 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19BC-01-17	2017	26	30



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

3/6/17	Added station and label for Exception to Rumble Strips.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

QUEEN KA'AHUMANU HIGHWAY
RUMBLE STRIPS IMPROVEMENTS
Mahai'ula to Kawaihae
Project No. 19BC-01-17

Scale: 1" = 100' Date: Dec., 2016

SHEET No. 20 OF 21 SHEETS

