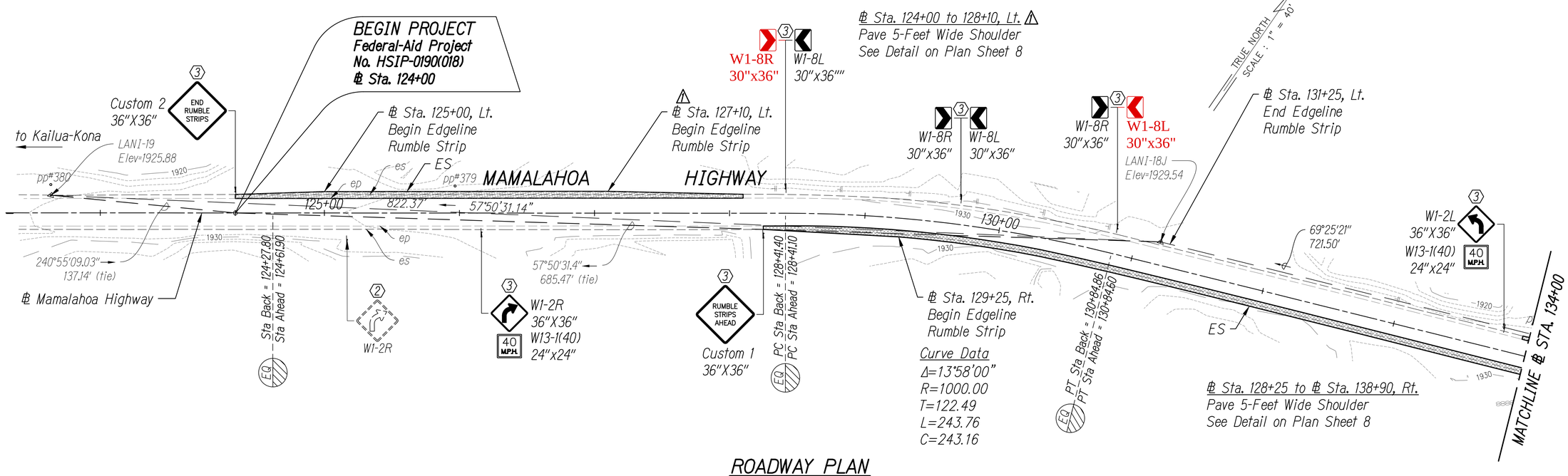
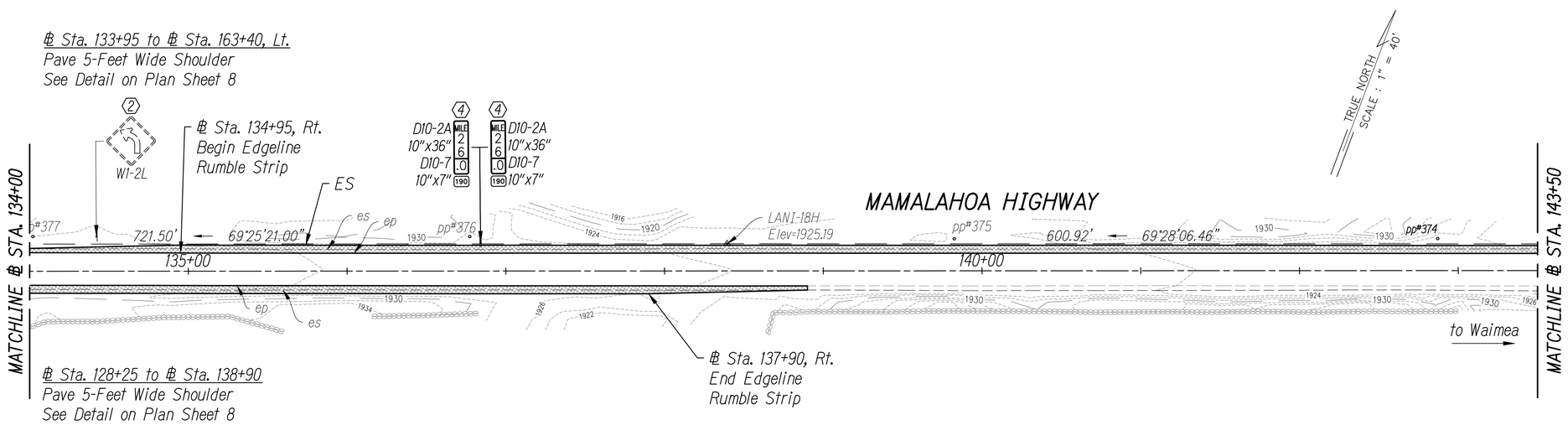
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	ADD. 16	70



ROADWAY PLAN



Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

ROADWAY PLAN

1" = 40' 40' 0 40' 80'

LEGEND FOR AS-BUILT POSTINGS

⩘⩘⩘⩘	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

NORMAN S.H. LEONG
Licensed Professional Engineer
No. 15285
HAWAII USA

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Expiration Date of License 4/24

Date	Description
9/9/22	⚠ Revised Limits

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

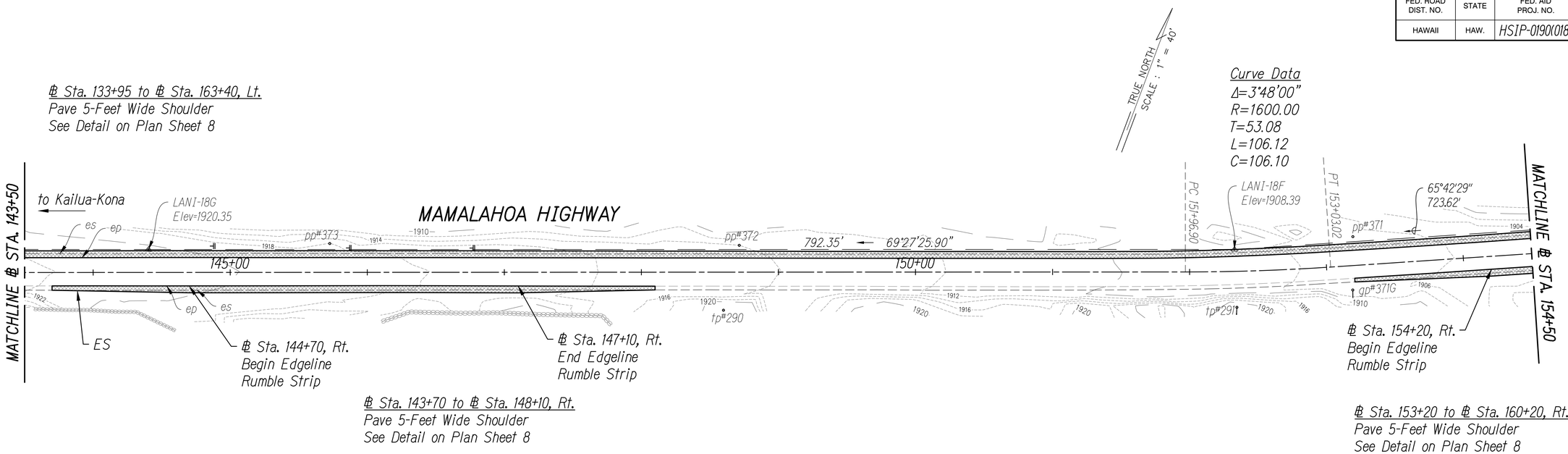
SHEET No. 1A OF 21 SHEETS

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

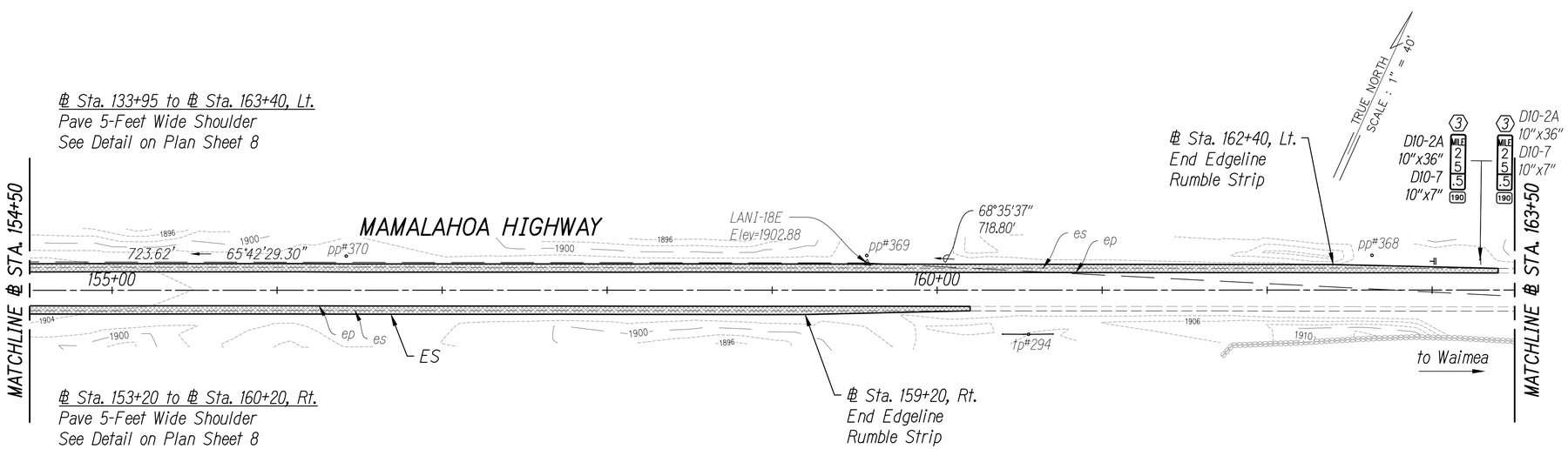
AS-BUILT

ADD. 16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	17	70



ROADWAY PLAN



Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
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4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

ROADWAY PLAN

1" = 40' 40' 0 40' 80'

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

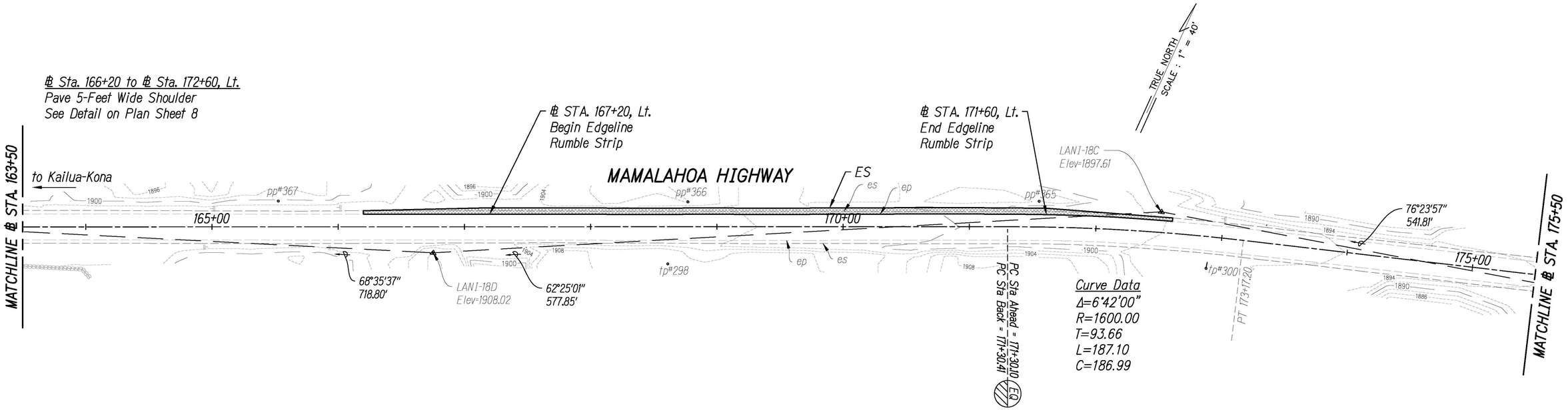
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

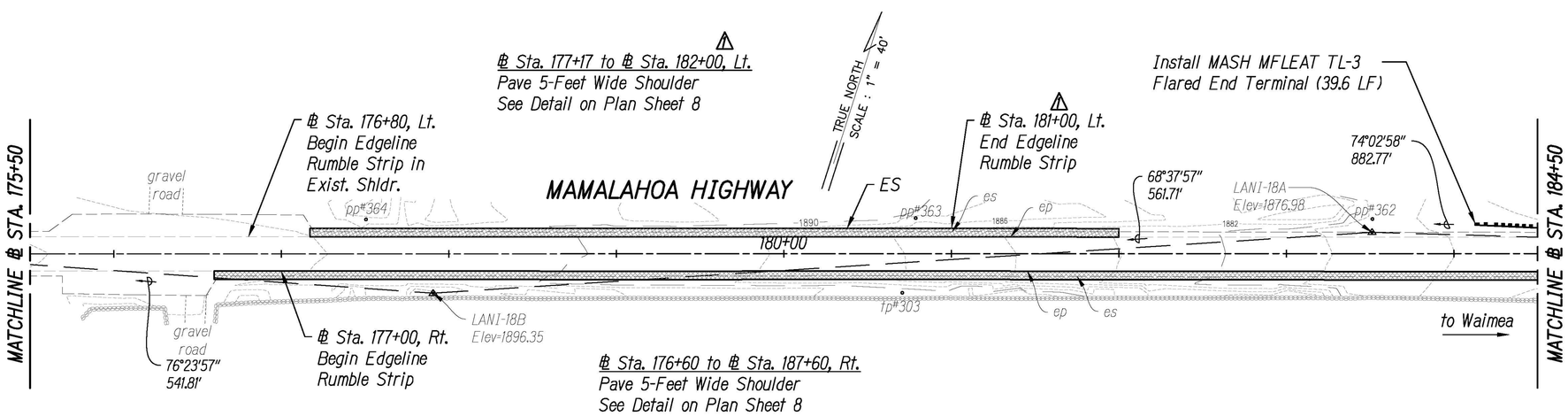
SHEET No. 2 OF 21 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	ADD. 18	70



ROADWAY PLAN



Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

ROADWAY PLAN

1" = 40' 40' 0 40' 80'

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Date	Description
9/9/22	⚠ Revised Limits

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

SHEET No. 3A OF 21 SHEETS

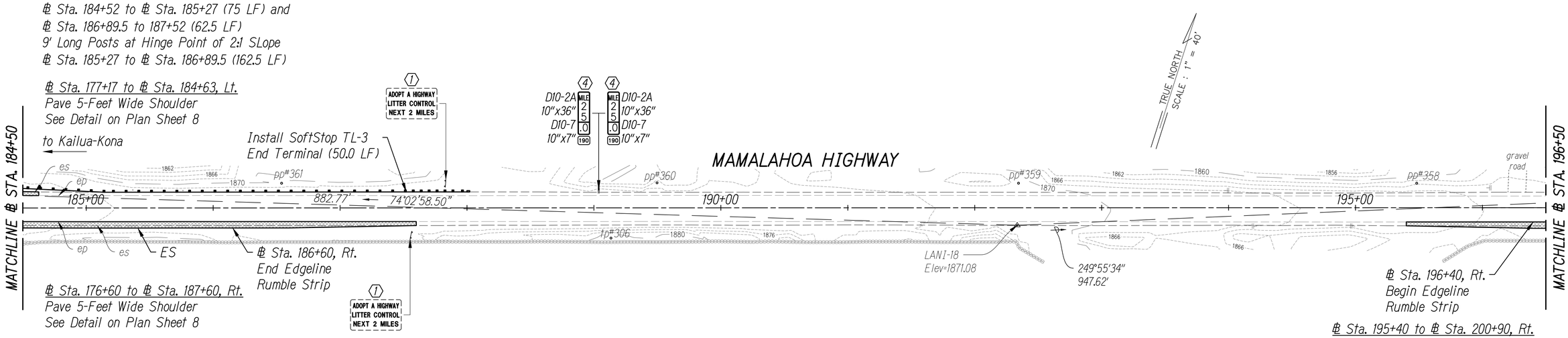
ADD. 18

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	19	70

℄ Sta. 184+52 to ℄ Sta. 187+52, Lt.
Install Midwest Guardrail System (TL-3)
6' Long Posts with 8" Blockout
℄ Sta. 184+52 to ℄ Sta. 185+27 (75 LF) and
℄ Sta. 186+89.5 to 187+52 (62.5 LF)
9' Long Posts at Hinge Point of 2:1 SLope
℄ Sta. 185+27 to ℄ Sta. 186+89.5 (162.5 LF)

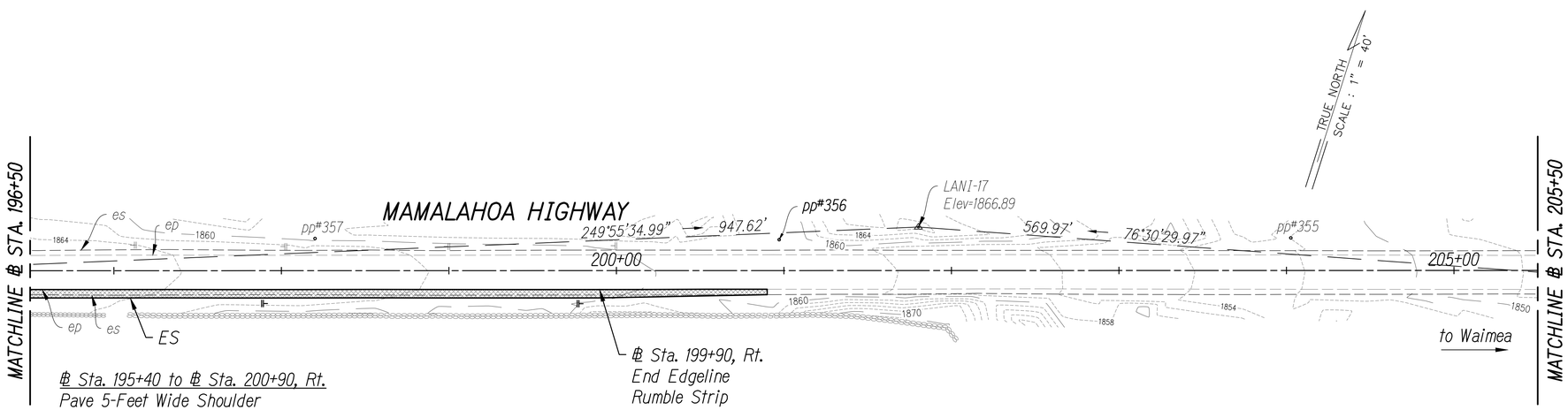
℄ Sta. 177+17 to ℄ Sta. 184+63, Lt.
Pave 5-Feet Wide Shoulder
See Detail on Plan Sheet 8



℄ Sta. 176+60 to ℄ Sta. 187+60, Rt.
Pave 5-Feet Wide Shoulder
See Detail on Plan Sheet 8

℄ Sta. 195+40 to ℄ Sta. 200+90, Rt.
Pave 5-Feet Wide Shoulder
See Detail on Plan Sheet 8

ROADWAY PLAN



℄ Sta. 195+40 to ℄ Sta. 200+90, Rt.
Pave 5-Feet Wide Shoulder
See Detail on Plan Sheet 8

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

ROADWAY PLAN

1" = 40' 40' 0 40' 80'

NORMAN S.H. LEONG
Licensed Professional Engineer
No. 15285
HAWAII USA

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

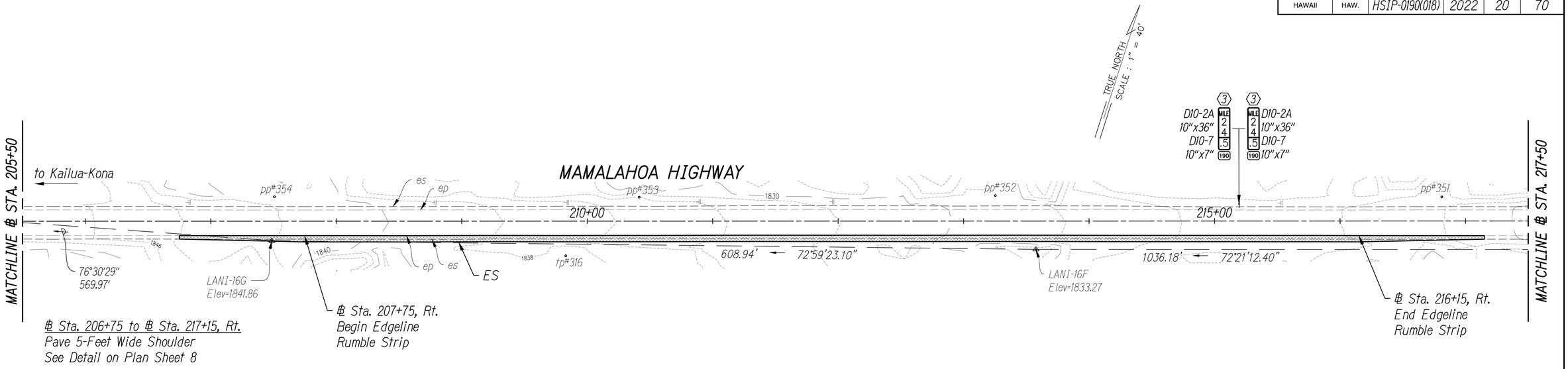
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

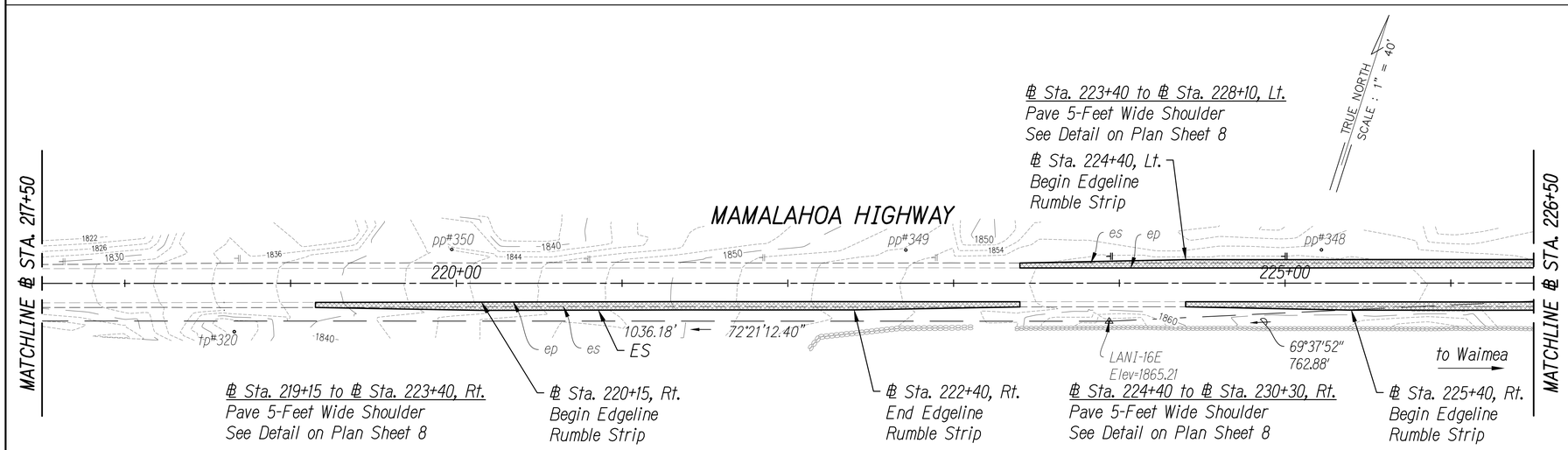
SHEET No. 4 OF 21 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	20	70



ROADWAY PLAN



1" = 40' 40' 0 40' 80'

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

ROADWAY PLAN

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

NORMAN S.H. LEONG
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

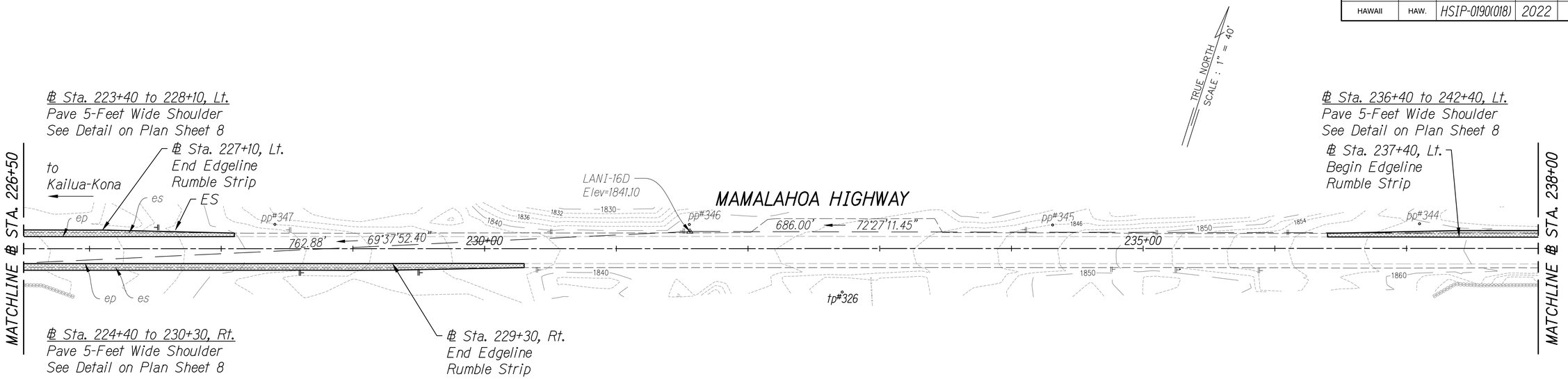
ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

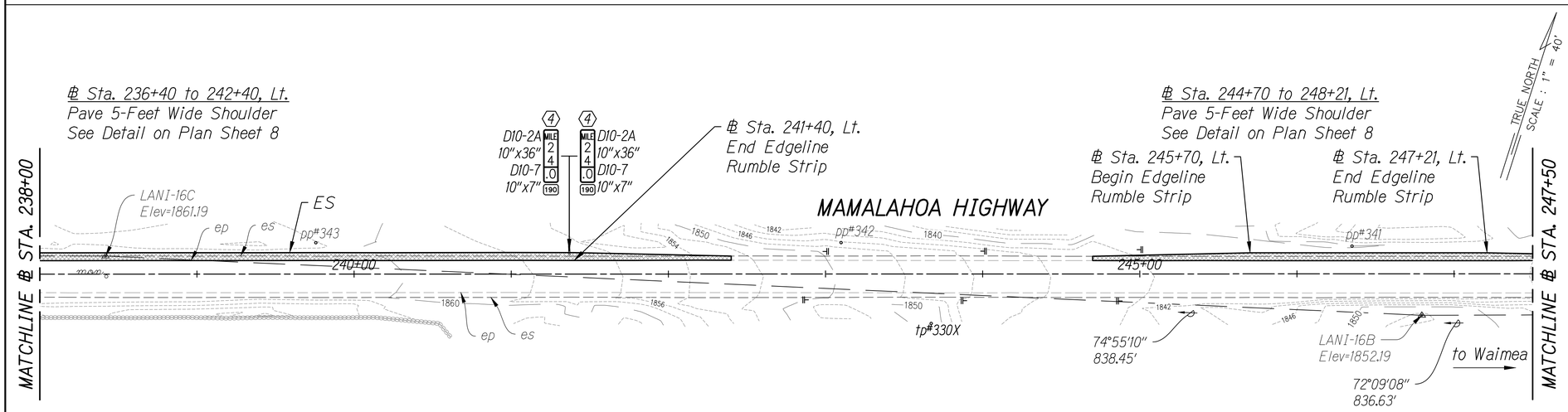
Scale: 1"=40' Date: July 2022

SHEET No. 5 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	21	70



ROADWAY PLAN



1" = 40' 40' 0 40' 80'

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

ROADWAY PLAN

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

NORMAN S.H. LEONG
Licensed Professional Engineer
No. 15285
HAWAII USA

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

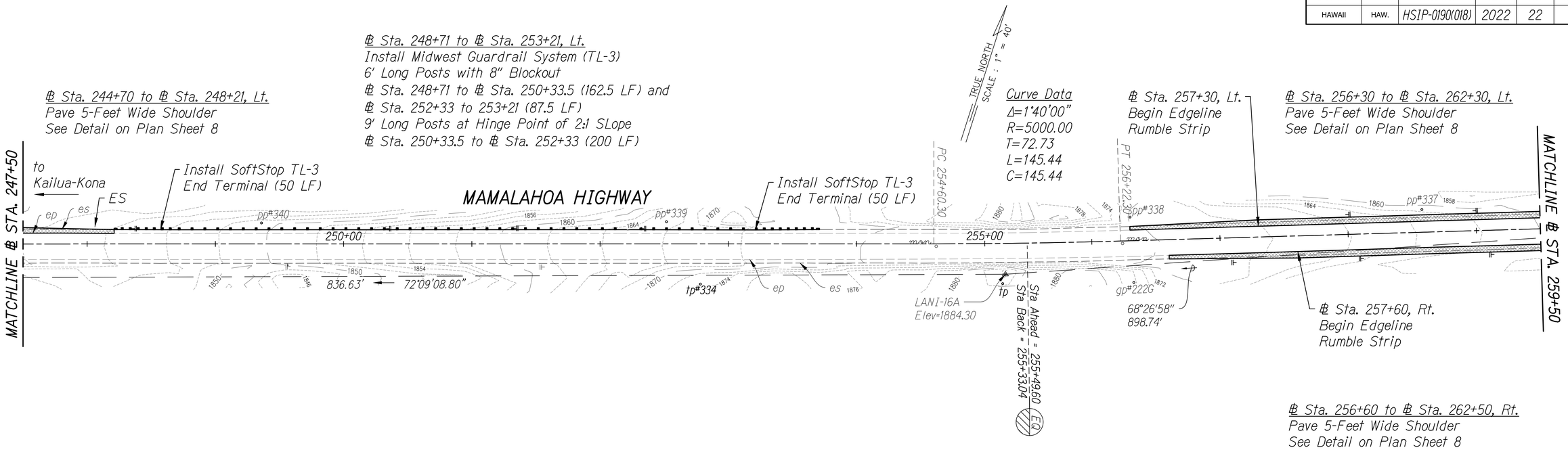
ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

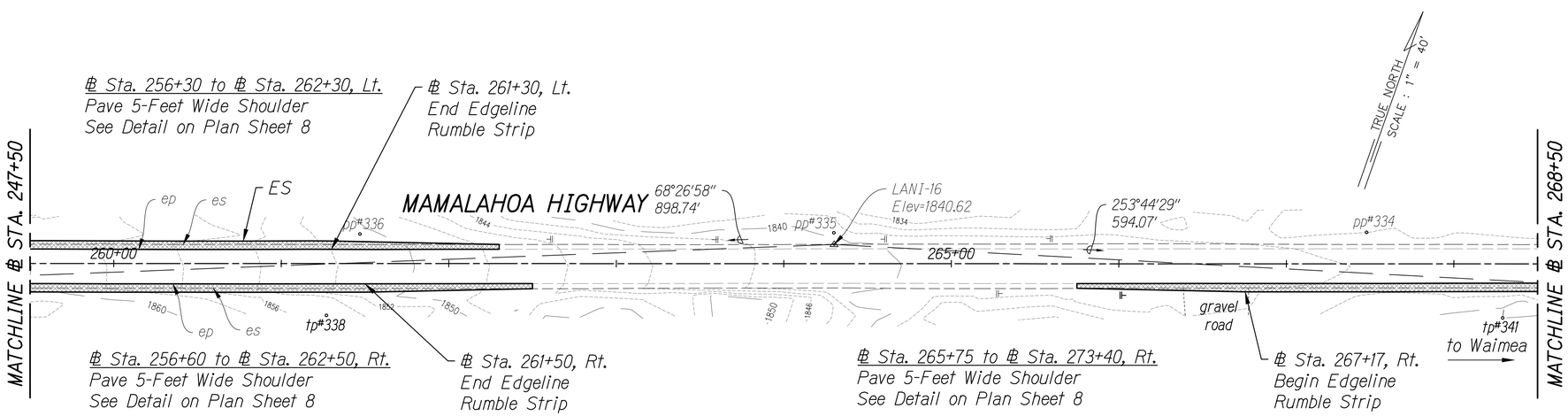
Scale: 1"=40' Date: July 2022

SHEET No. 6 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	22	70



ROADWAY PLAN



1" = 40' 40' 0 40' 80'

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

ROADWAY PLAN

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

NORMAN S.H. LEONG
Licensed Professional Engineer
No. 15285
HAWAII USA

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

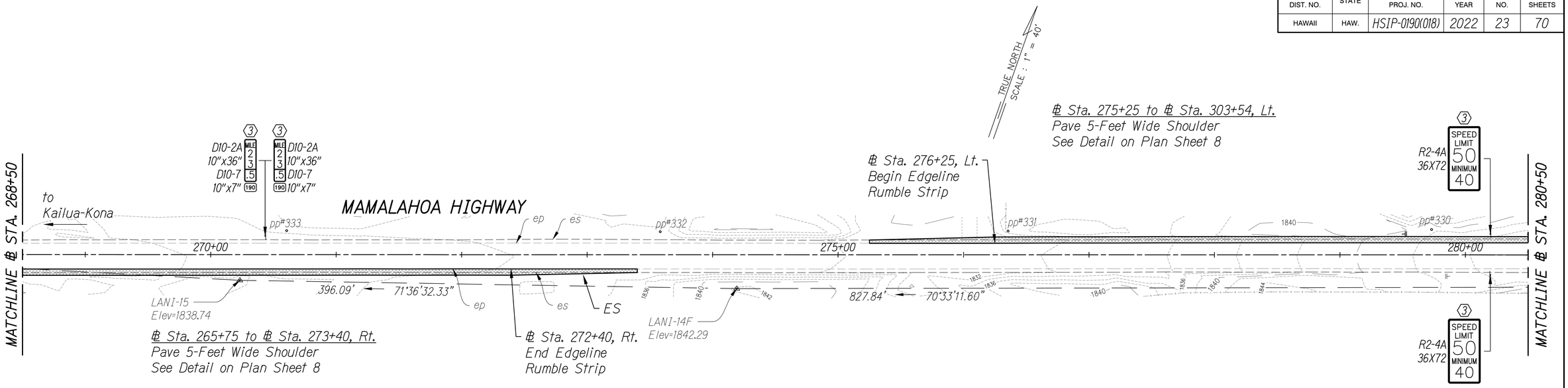
ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

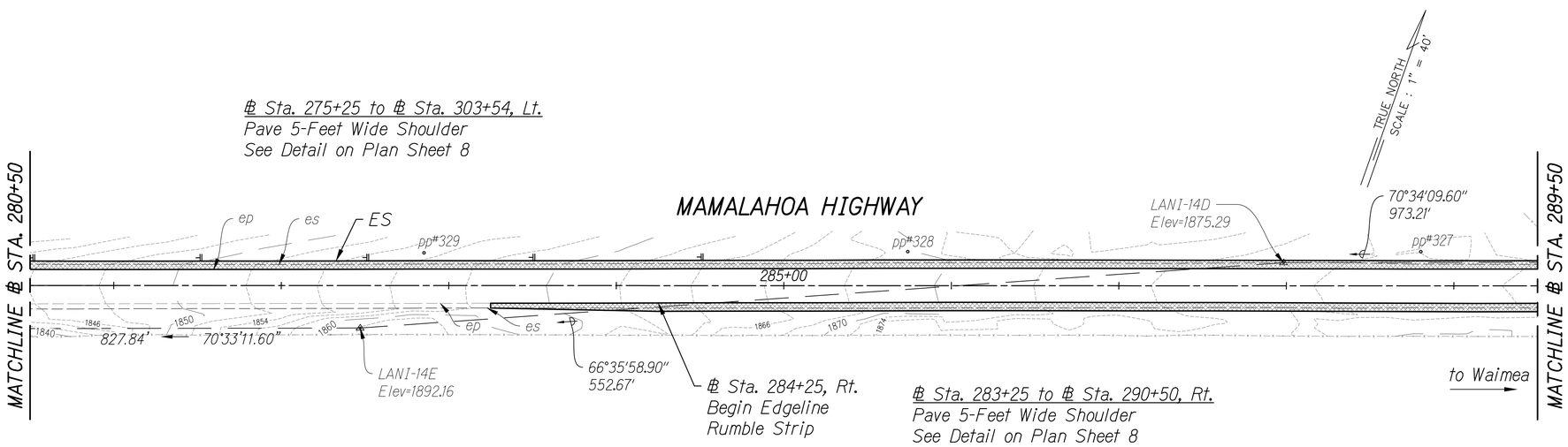
Scale: 1"=40' Date: July 2022

SHEET No. 7 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	23	70



ROADWAY PLAN



1" = 40' 40' 0 40' 80'

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

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3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

ROADWAY PLAN

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

NORMAN S.H. LEONG
Licensed Professional Engineer
No. 15285
HAWAII USA

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

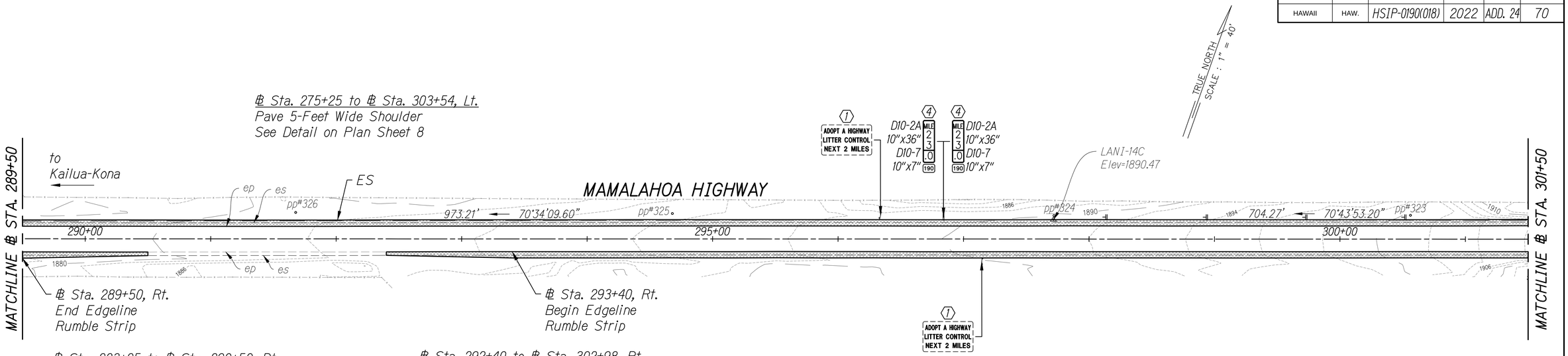
ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

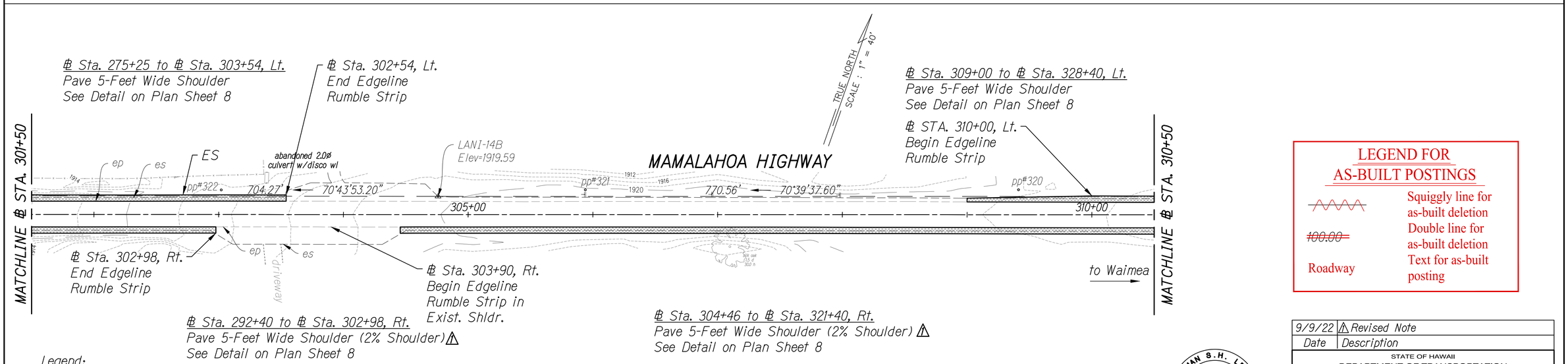
Scale: 1"=40' Date: July 2022

SHEET No. 8 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	ADD. 24	70



ROADWAY PLAN



ROADWAY PLAN

LEGEND FOR AS-BUILT POSTINGS

~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

1" = 40' 40' 0 40' 80'

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Date	Description
9/9/22	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

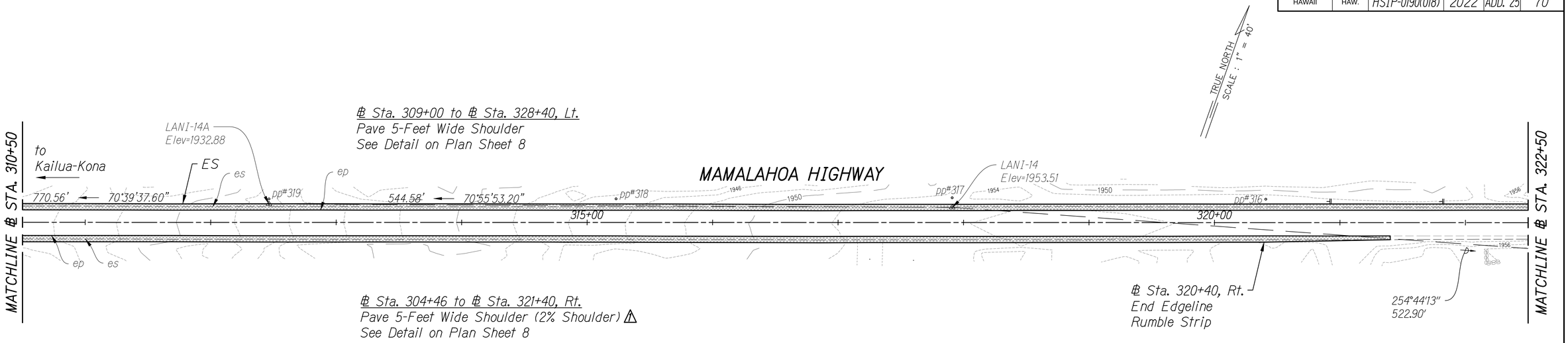
SHEET No. 9A OF 21 SHEETS

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

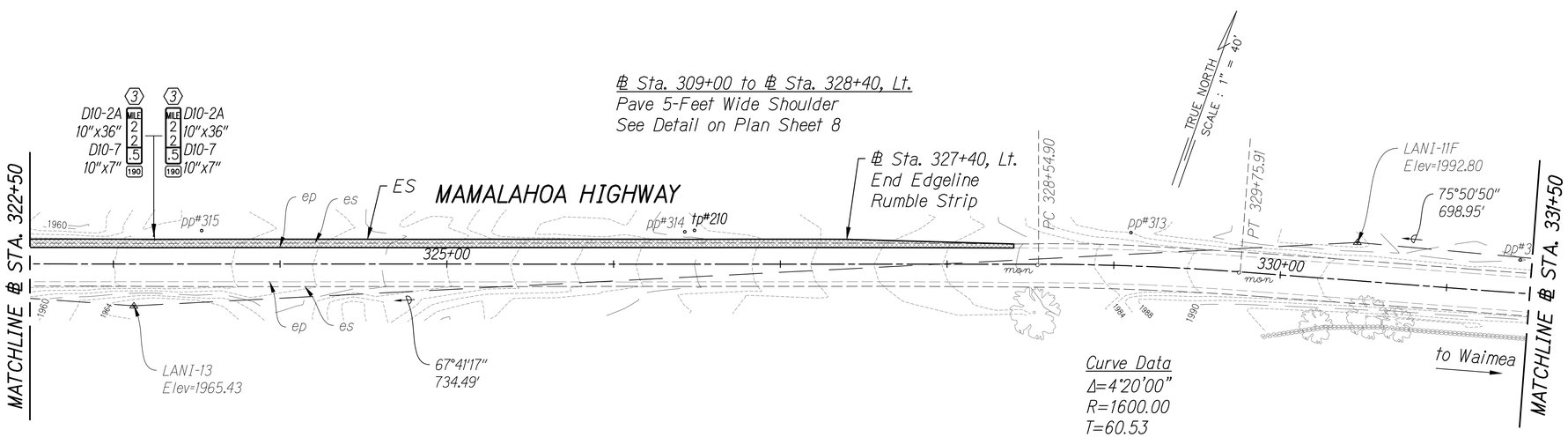
AS-BUILT

ADD. 24

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	ADD. 25	70



ROADWAY PLAN



Curve Data
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R=1600.00
T=60.53
L=121.01
C=120.98

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

ROADWAY PLAN

1" = 40' 40' 0 40' 80'

LEGEND FOR AS-BUILT POSTINGS

∧∧∧	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

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Licensed Professional Engineer
No. 15285
HAWAII USA

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Expiration Date of License 4/24

Date	Description
9/9/22	⚠ Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

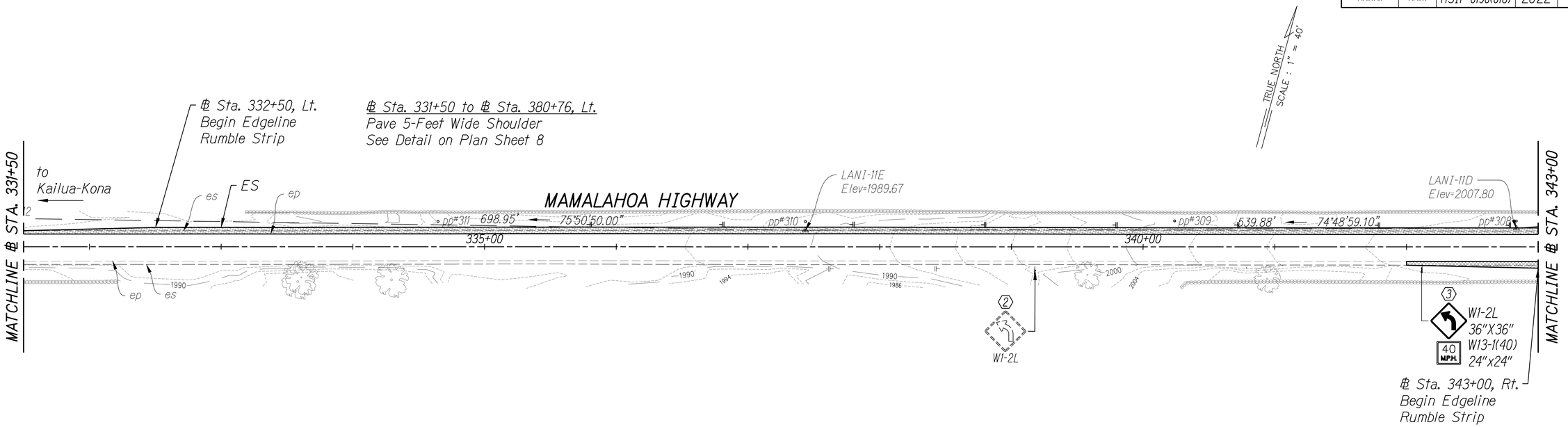
SHEET No. 10A OF 21 SHEETS

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

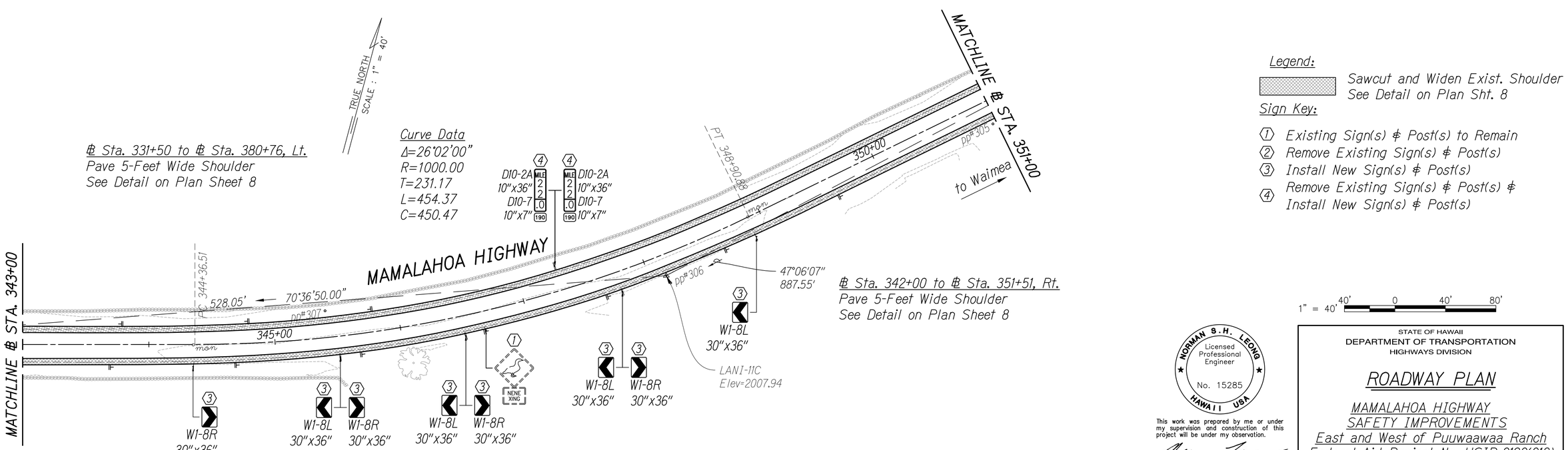
AS-BUILT

ADD. 25

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	26	70



ROADWAY PLAN



ROADWAY PLAN

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

NORMAN S.H. LEONG
Licensed Professional Engineer
No. 15285
HAWAII USA

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Expiration Date of License 4/24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

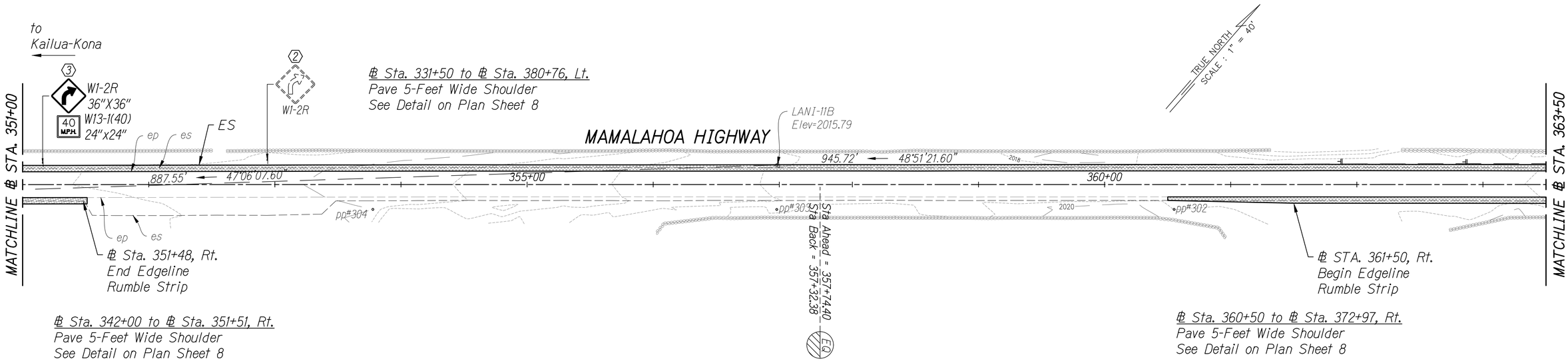
ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

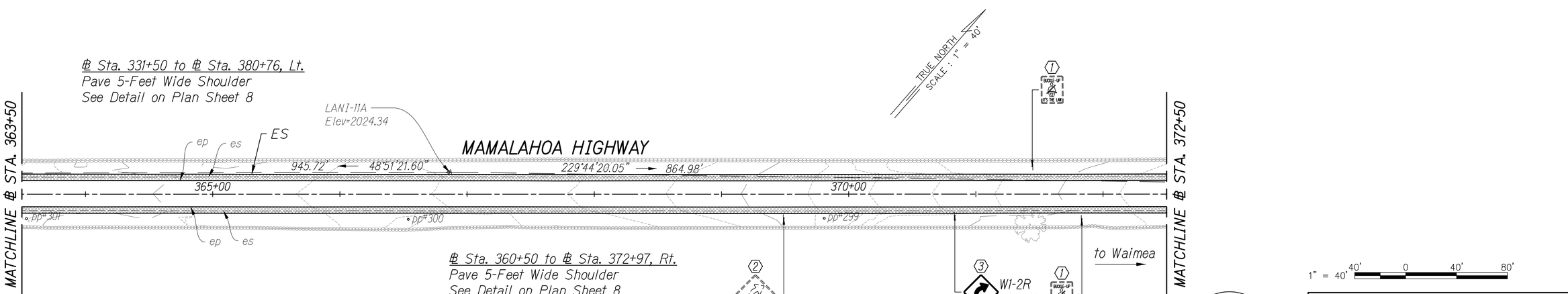
Scale: 1"=40' Date: July 2022

SHEET No. 11 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	27	70



ROADWAY PLAN



Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

ROADWAY PLAN

1" = 40' 40' 0 40' 80'

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HAWAII USA

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

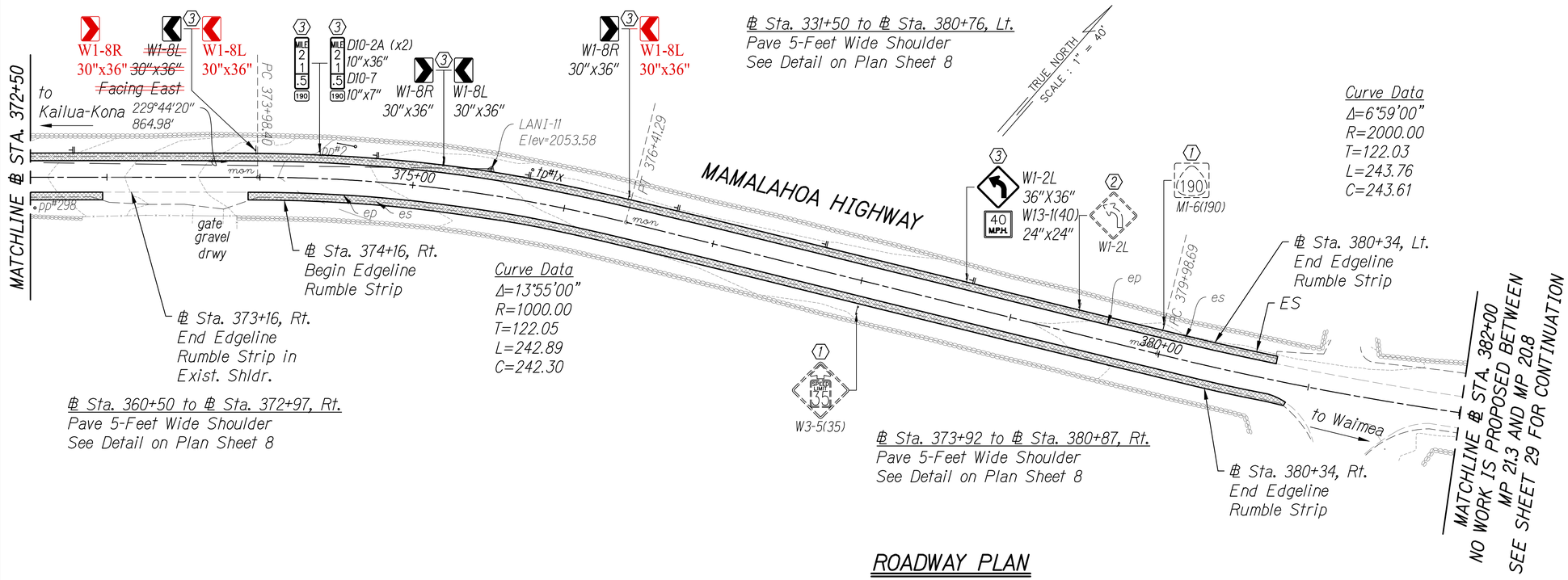
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

SHEET No. 12 OF 21 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	28	70



ROADWAY PLAN

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

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

LEGEND FOR AS-BUILT POSTINGS

~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

1" = 40' 40' 0 40' 80'

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Licensed Professional Engineer
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HAWAII USA

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

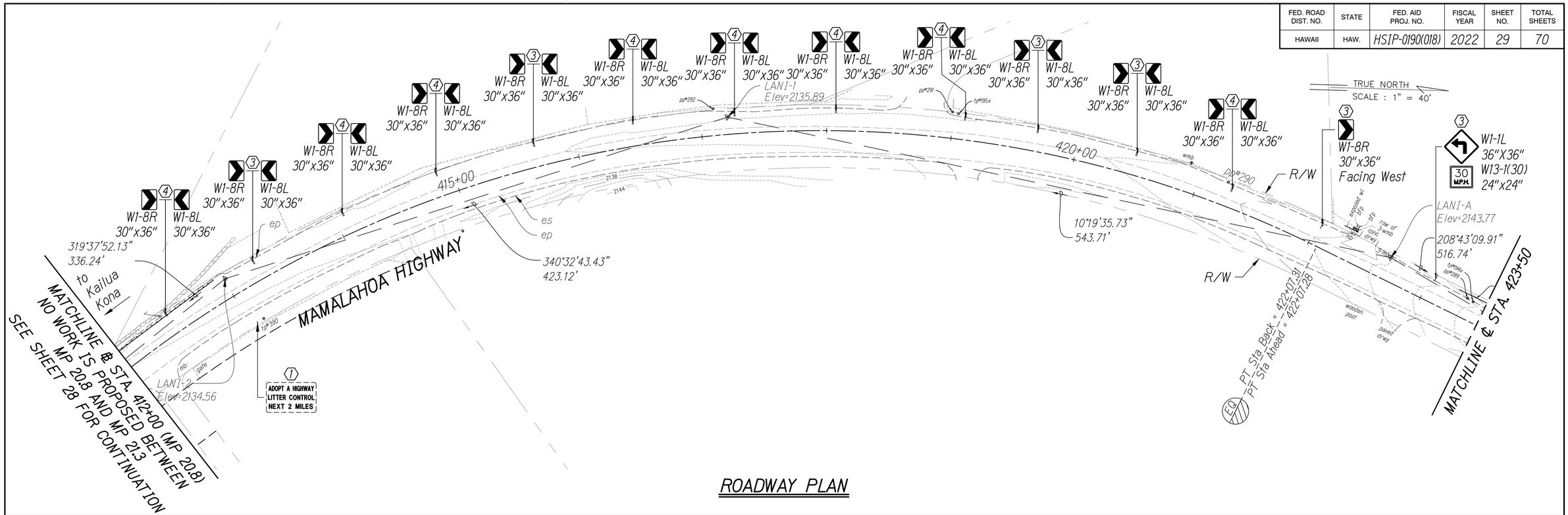
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

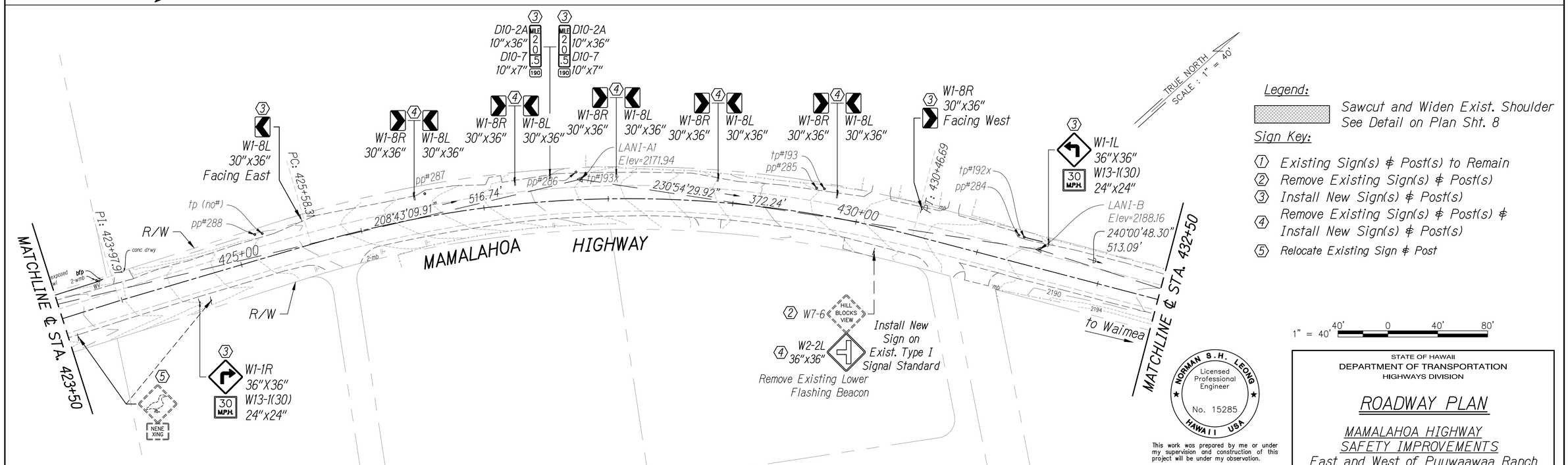
SHEET No. 13 OF 21 SHEETS

AS-BUILT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	29	70



ROADWAY PLAN



ROADWAY PLAN

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)
5. Relocate Existing Sign & Post

1" = 40' 40' 0 40' 80'

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

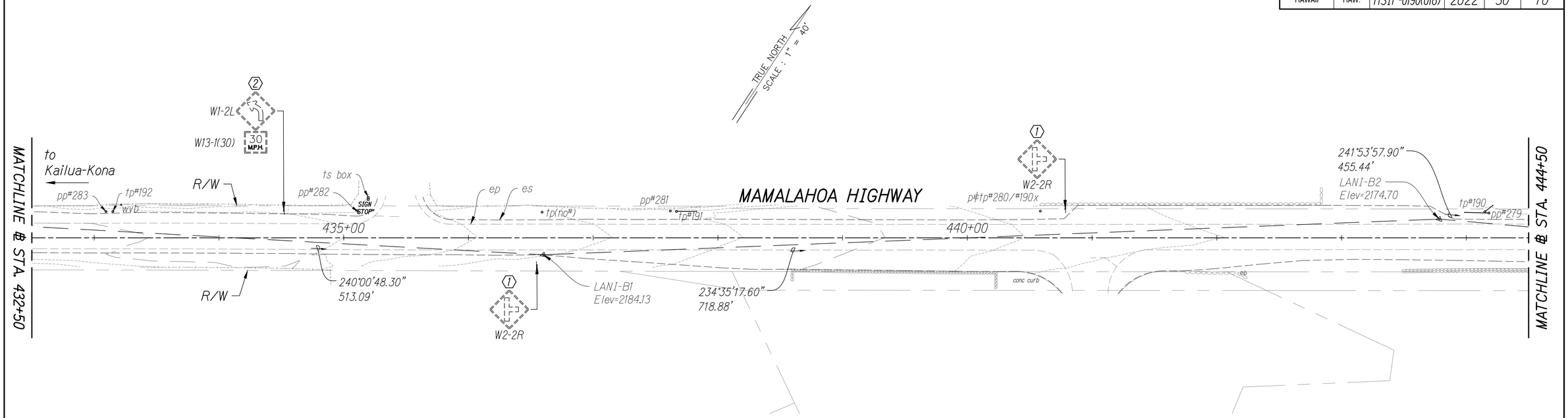
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

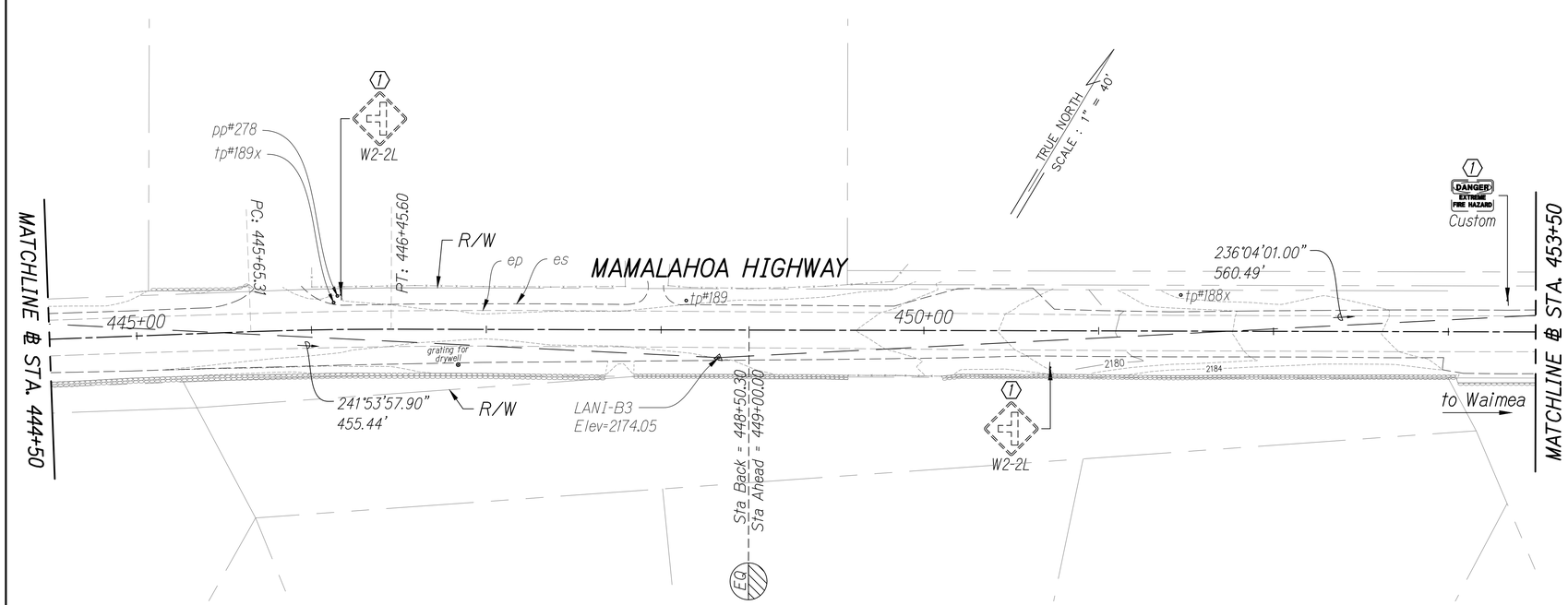
SHEET No. 14 OF 21 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	30	70



ROADWAY PLAN



ROADWAY PLAN

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

1" = 40' 40' 0 40' 80'

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

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

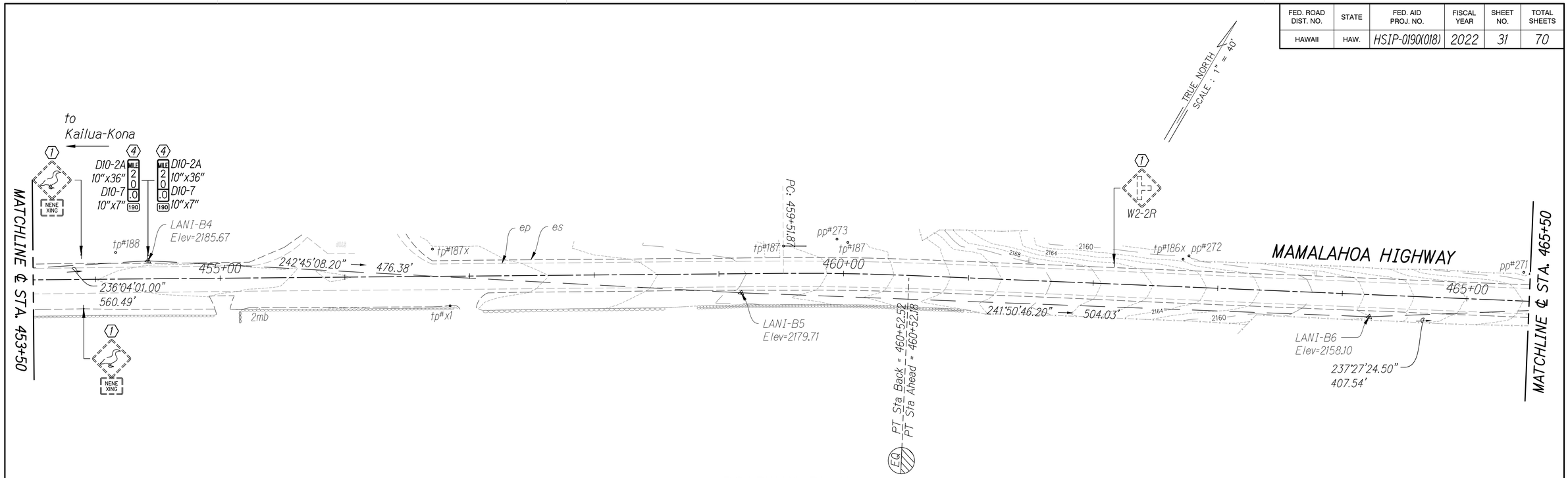
ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

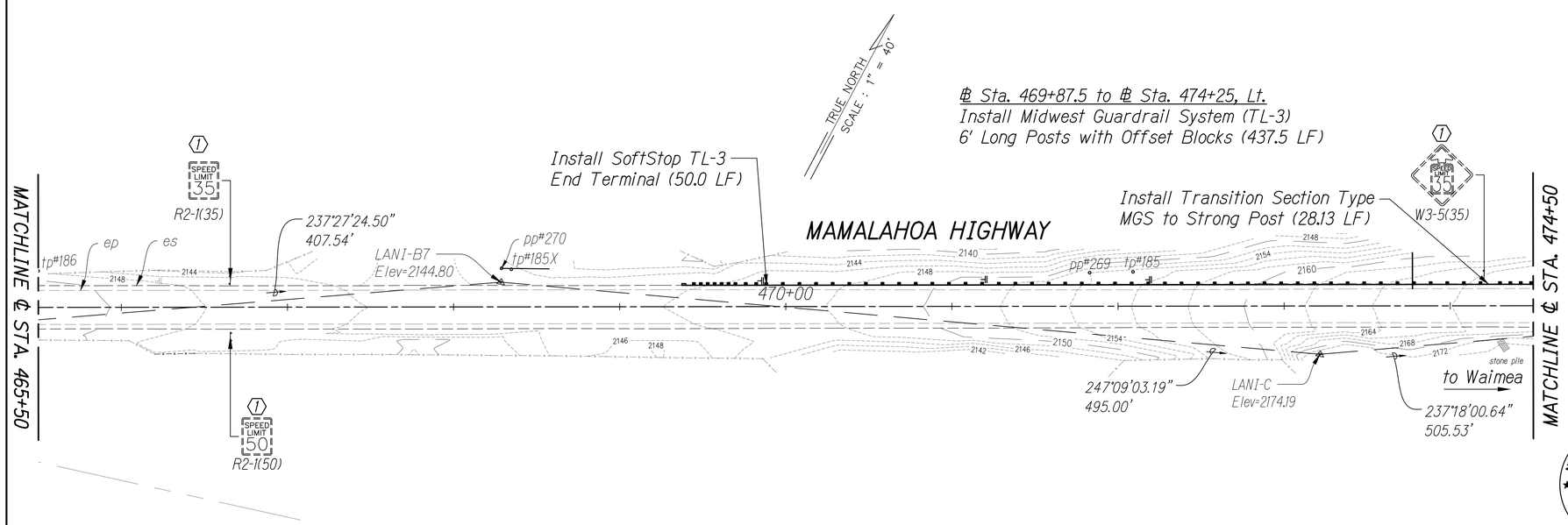
Scale: 1"=40' Date: July 2022

SHEET No. 15 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	31	70



ROADWAY PLAN



ROADWAY PLAN

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

1" = 40' 40' 0 40' 80'

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HIGHWAYS DIVISION

ROADWAY PLAN

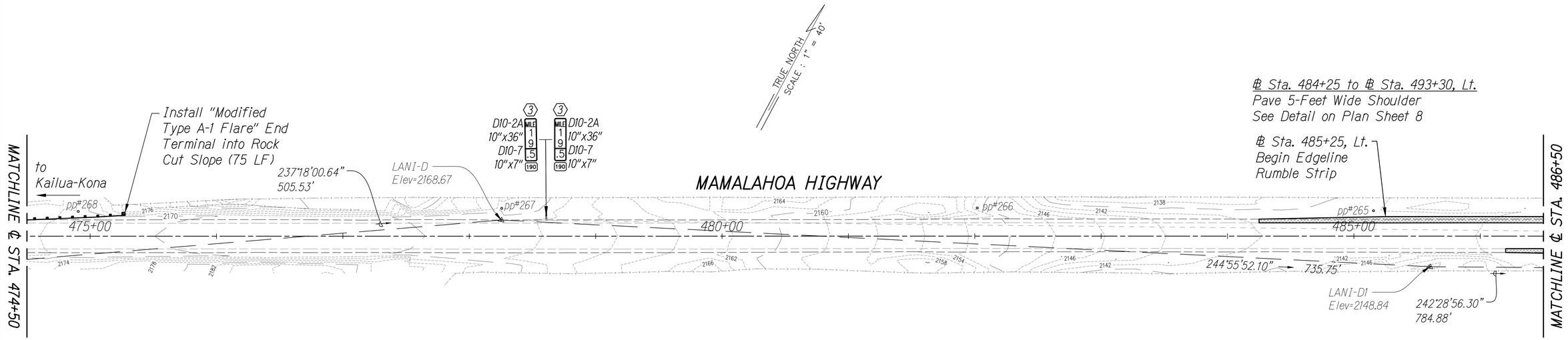
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

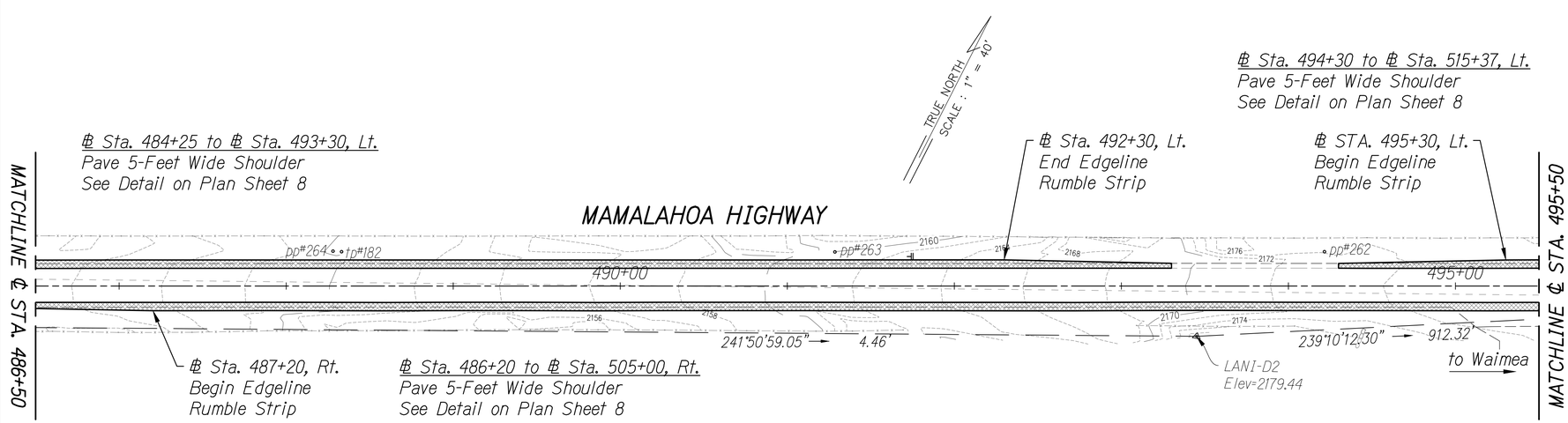
SHEET No. 16 OF 21 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	32	70



ROADWAY PLAN



Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

1" = 40' 40' 0 40' 80'

ROADWAY PLAN

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

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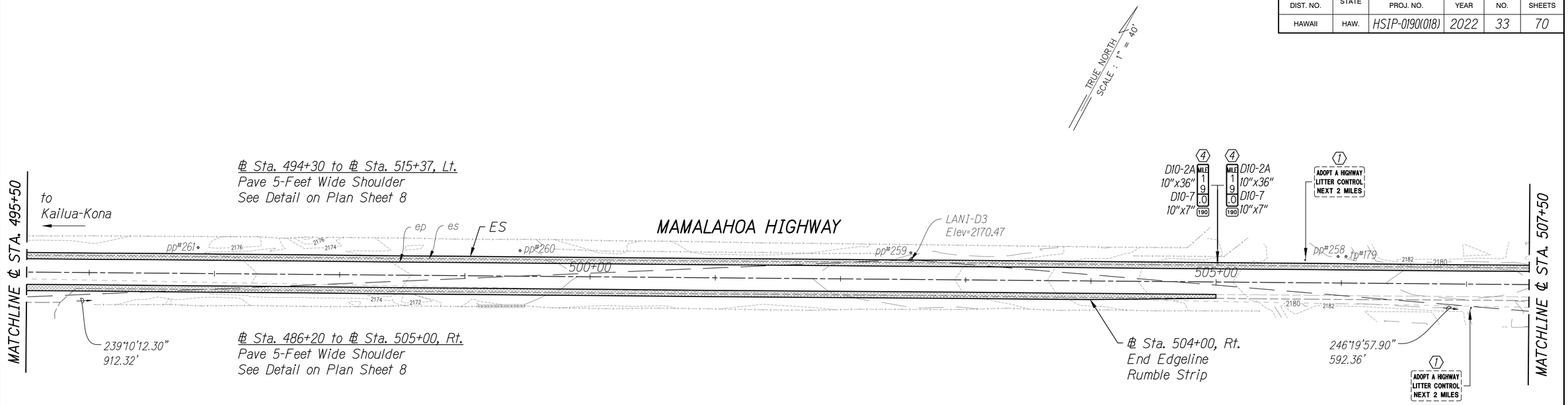
ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

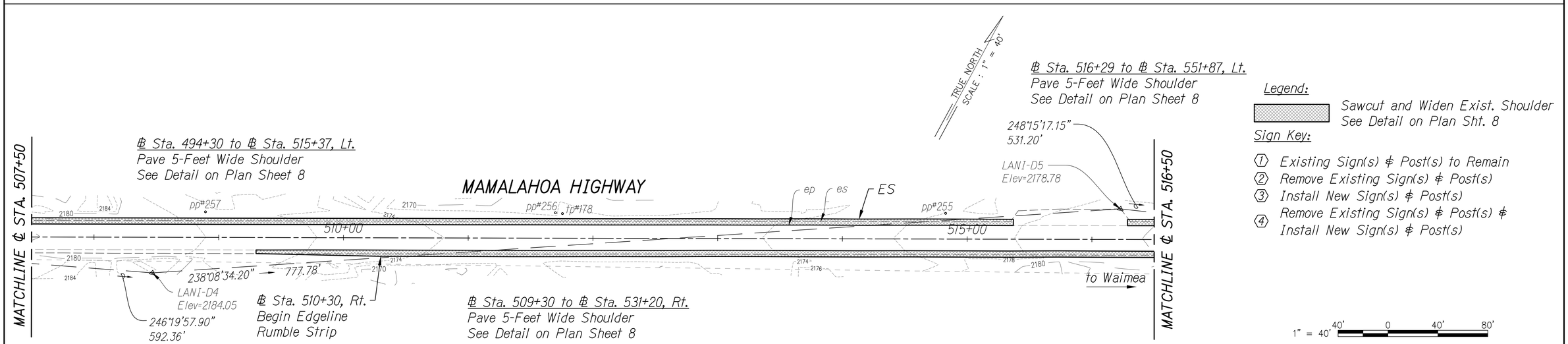
Scale: 1"=40' Date: July 2022

SHEET No. 17 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	33	70



ROADWAY PLAN



Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

1" = 40' 40' 0 40' 80'

ROADWAY PLAN

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

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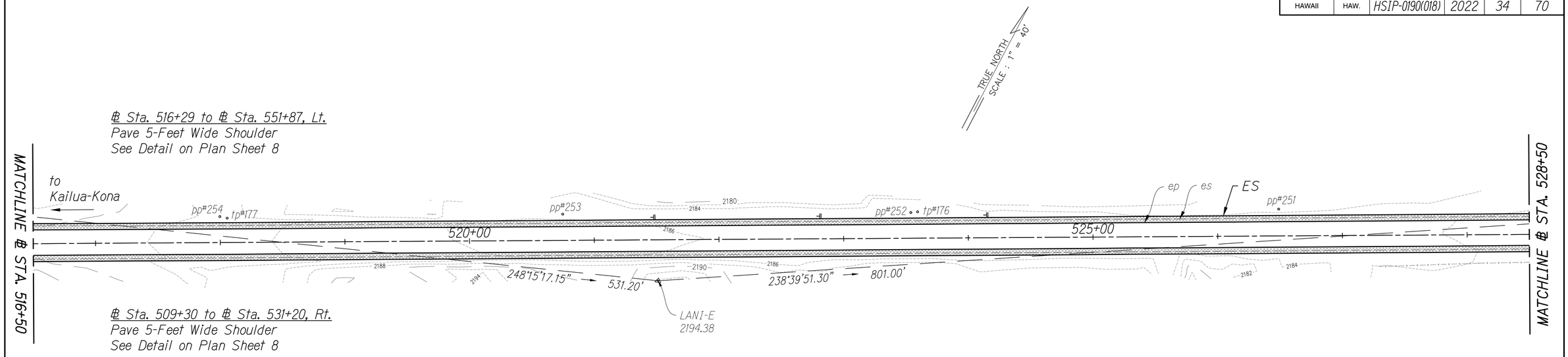
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

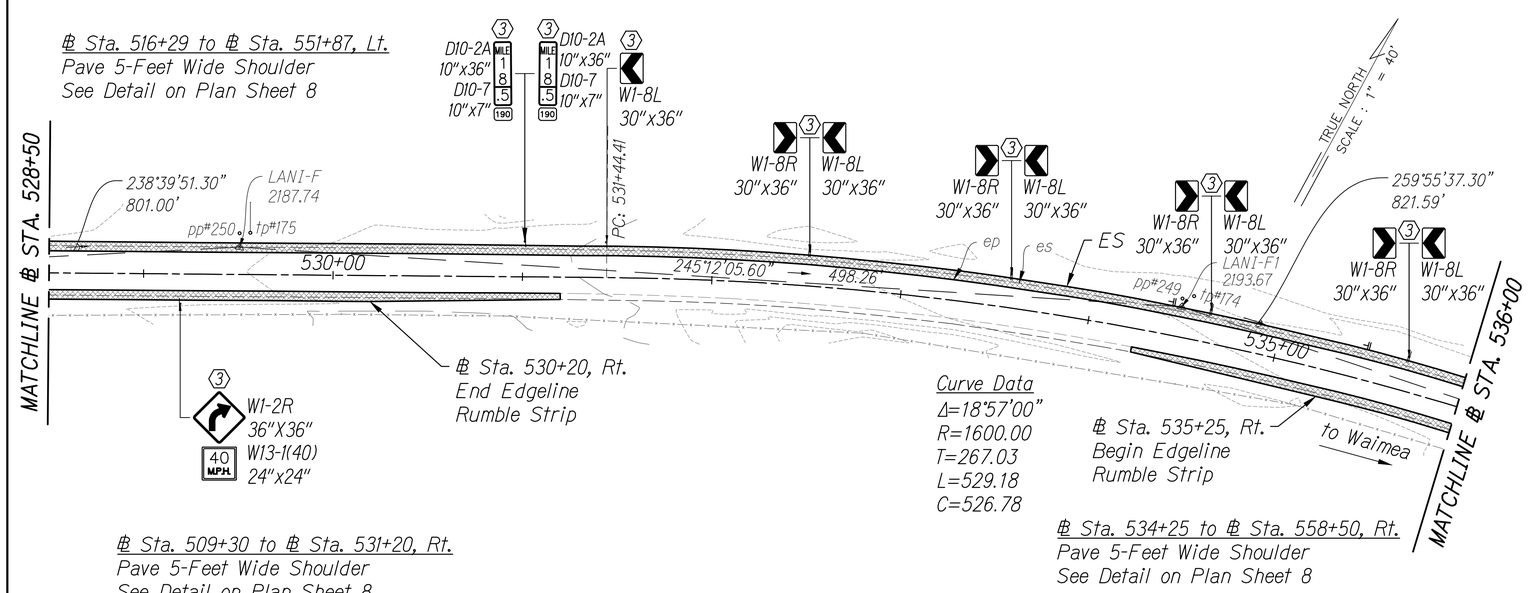
MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	34	70



ROADWAY PLAN



ROADWAY PLAN

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

1" = 40' 40' 0 40' 80'

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

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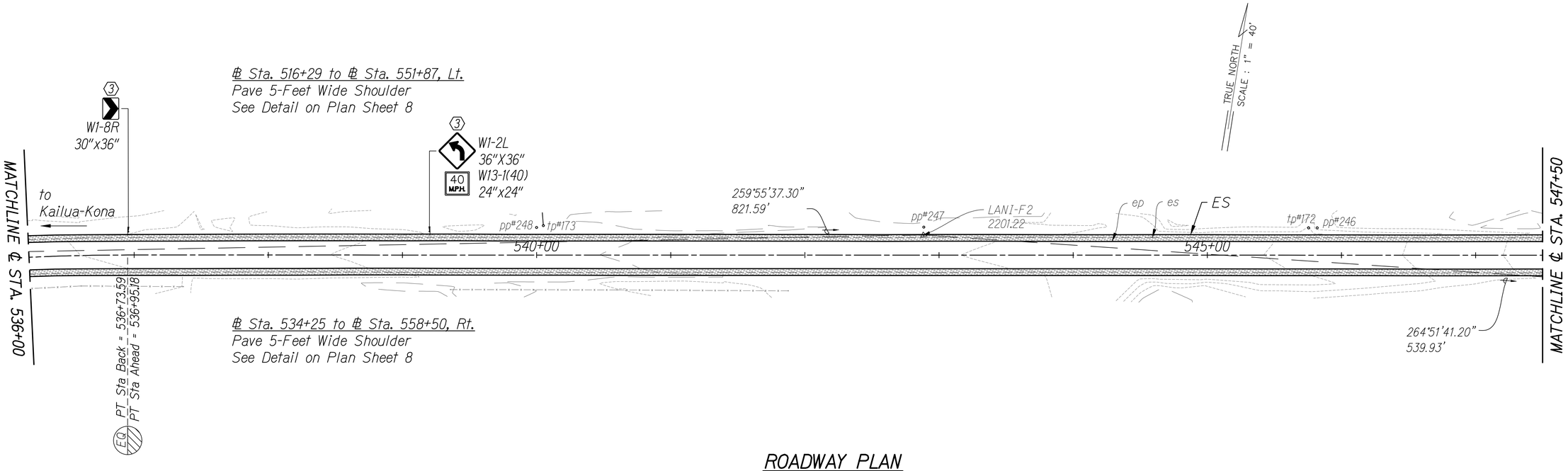
ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

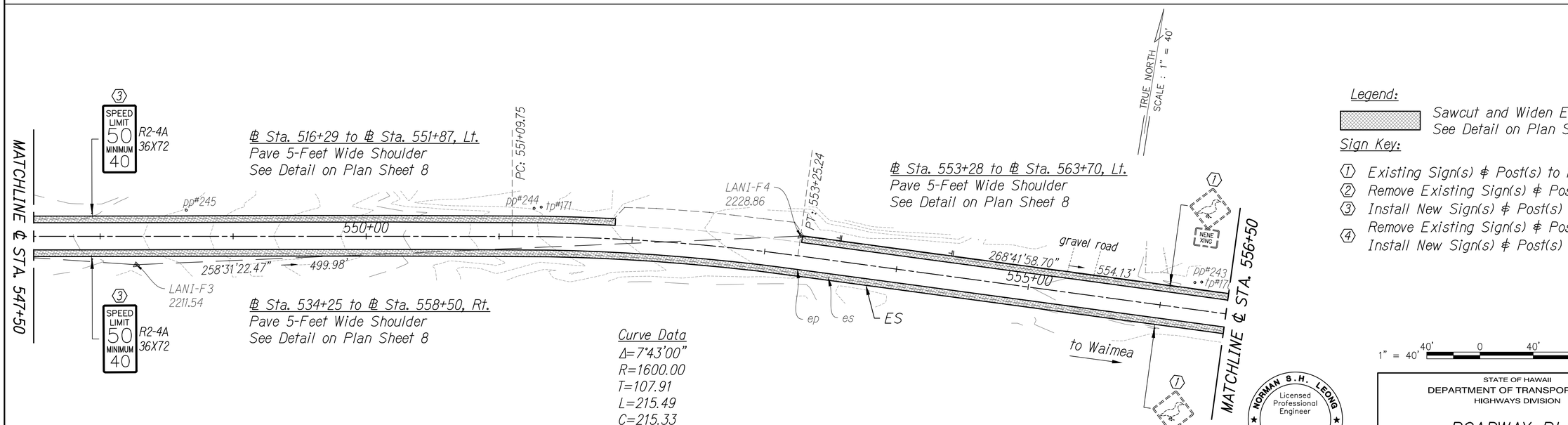
Scale: 1"=40' Date: July 2022

SHEET No. 19 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	35	70



ROADWAY PLAN



Curve Data
Δ=7°43'00"
R=1600.00
T=107.91
L=215.49
C=215.33

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

1" = 40' 40' 0 40' 80'

ROADWAY PLAN

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

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HIGHWAYS DIVISION

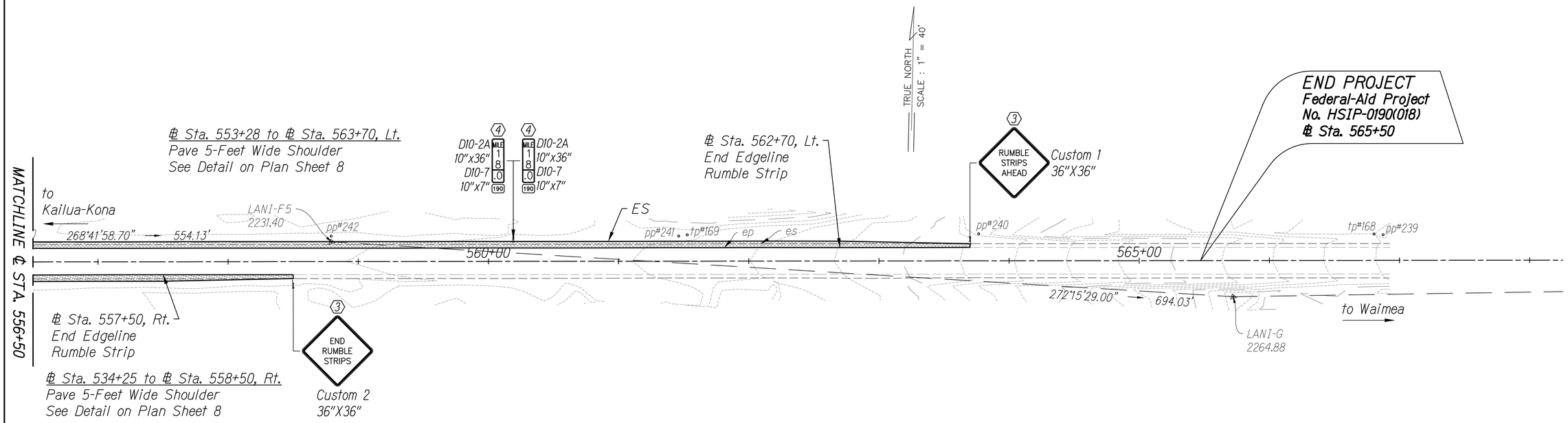
ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

SHEET No. 20 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HSIP-0190(018)	2022	36	70



ROADWAY PLAN

Legend:

Sawcut and Widen Exist. Shoulder
See Detail on Plan Sht. 8

Sign Key:

1. Existing Sign(s) & Post(s) to Remain
2. Remove Existing Sign(s) & Post(s)
3. Install New Sign(s) & Post(s)
4. Remove Existing Sign(s) & Post(s) & Install New Sign(s) & Post(s)

1" = 40' 40' 0 40' 80'

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
East and West of Puuwaawaa Ranch
Federal Aid Project No. HSIP-0190(018)

Scale: 1"=40' Date: July 2022

SHEET No. 21 OF 21 SHEETS

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