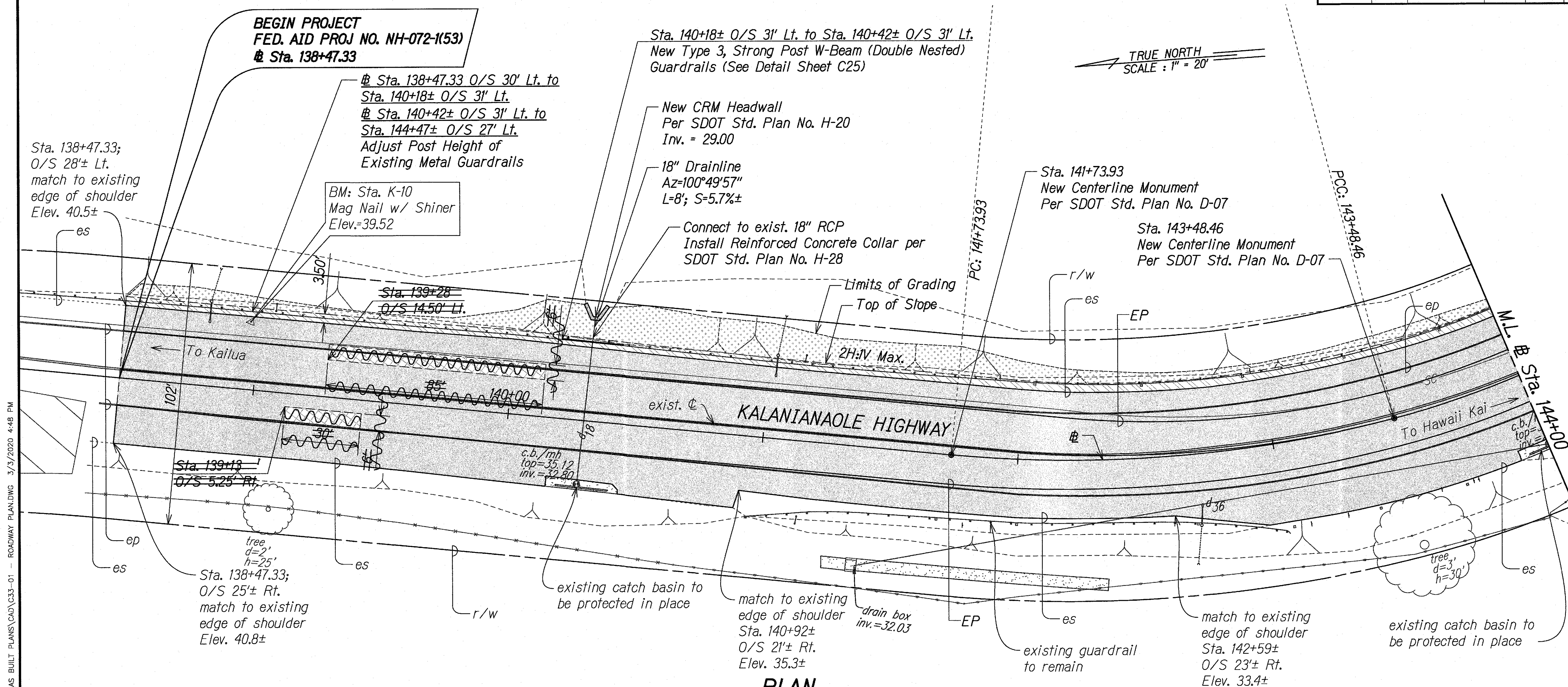


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	33	117

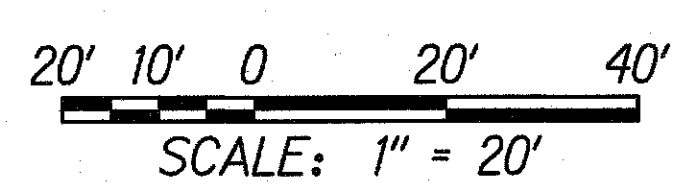


DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

LEGEND:

- Pavement Reconstruction
- 4" Hot Mix Asphalt (Mix IV)
- 7" Hot Mix Asphalt Concrete Base
- 10" Aggregate Subbase
- 2" Mill and 2" A.C. (Mix IV) Overlay
- 2" A.C. (Mix IV)
- Grassed Areas

GRAPHICAL SCALE:



NOTES:

- The Contractor shall inspect and clean all drain culverts within the project limits and shall be paid under Item No. 603.0300.
- The Contractor shall probe near utility lines before installing guardrail posts. This work shall be considered incidental to guardrail items.

PLAN

SCALE: 1" = 20'

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

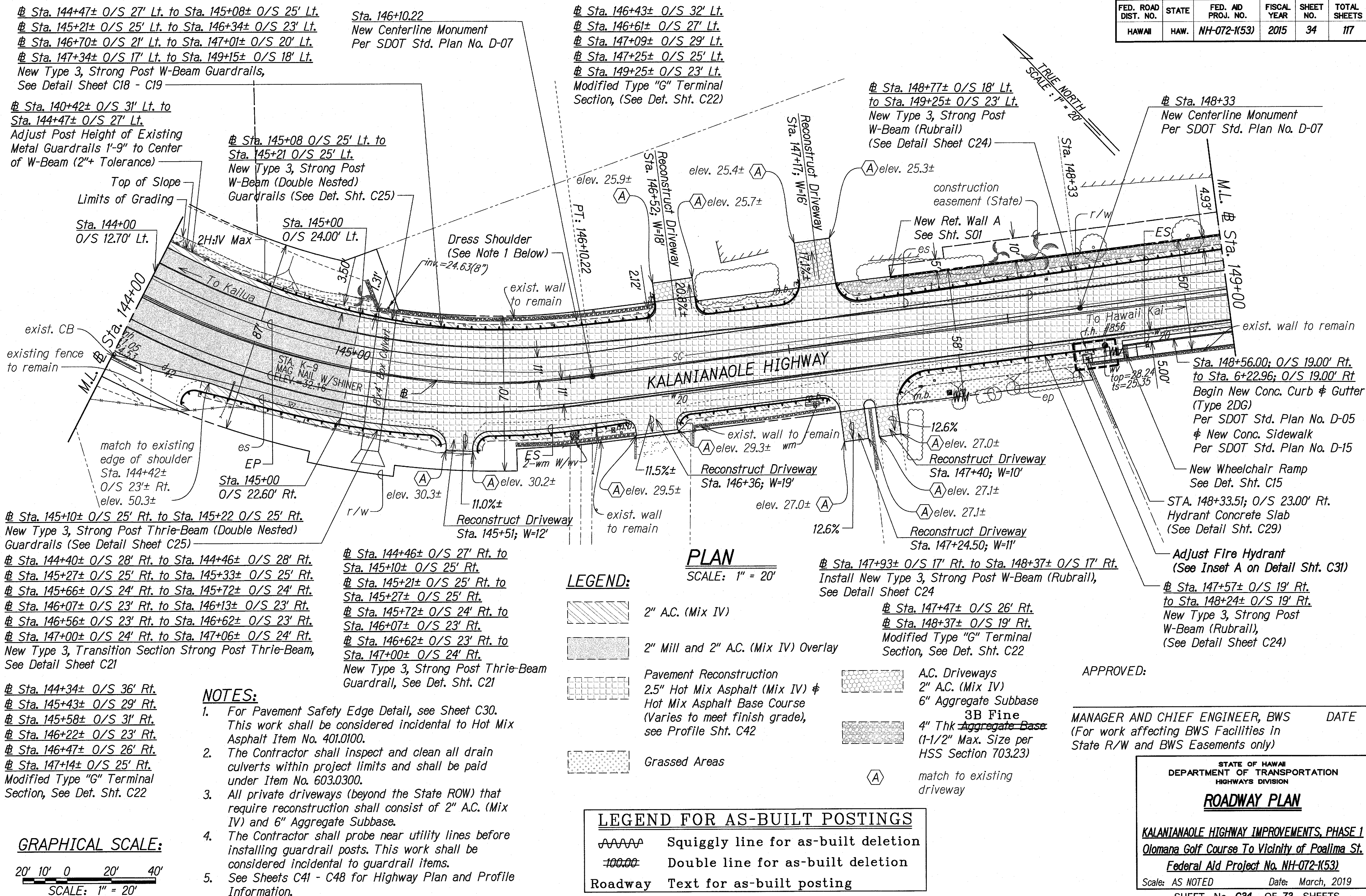
ROADWAY PLAN

KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE I
Olomana Golf Course To Vicinity of Poalima St.
Federal Aid Project No. NH-072-1(53)

Scale: AS NOTED Date: March, 2019

SHEET No. C33 OF 73 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	34	117



"AS-BUILT"

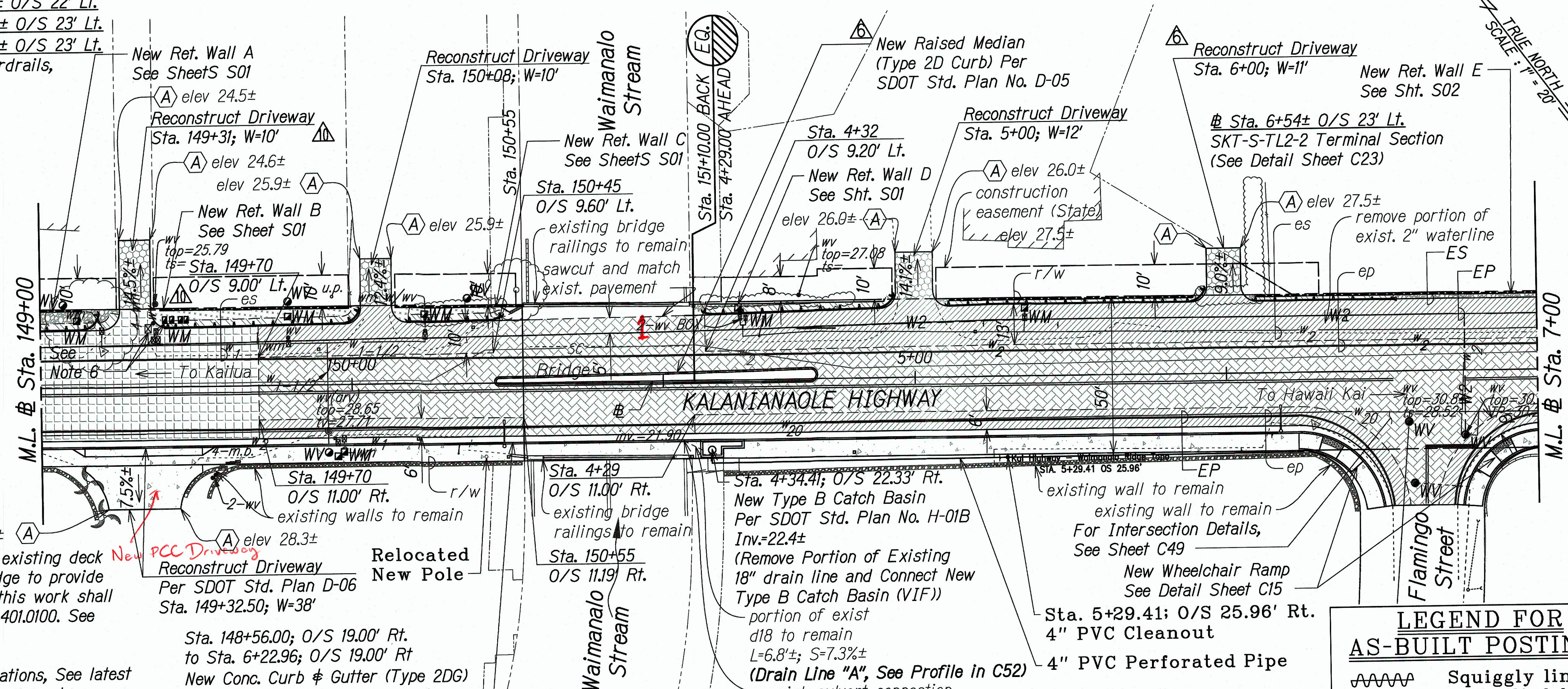
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-K(53)	2015	C.O. 35	117

Sta. 147+34± 0/S 17' Lt. to Sta. 149+15± 0/S 18' Lt.
 # Sta. 149+50± 0/S 19' Lt. to Sta. 149+94± 0/S 19' Lt.
 # Sta. 150+31± 0/S 20' Lt. to Sta. 150+48± 0/S 21' Lt.
 # Sta. 4+32± 0/S 21' Lt. to Sta. 4+82± 0/S 22' Lt.
 # Sta. 5+24± 0/S 23' Lt. to Sta. 5+87± 0/S 23' Lt.
 # Sta. 6+09± 0/S 23' Lt. to Sta. 6+40± 0/S 23' Lt.
 New Type 3, Strong Post W-Beam Guardrails,
 See Detail Sheet C18 - C19

Sta. 149+25± 0/S 23' Lt.
 # Sta. 149+41± 0/S 19' Lt.
 # Sta. 150+02± 0/S 23' Lt.
 # Sta. 150+19± 0/S 20' Lt.
 # Sta. 4+93± 0/S 26' Lt.
 # Sta. 5+11± 0/S 23' Lt.
 # Sta. 5+93± 0/S 27' Lt.
 Modified Type "G" Terminal
 Section, (See Detail Sheet C22)

Sta. 150+48± 0/S 21' Lt.
 # Sta. 4+32± 0/S 21' Lt.
 # Sta. 6+09± 0/S 23' Lt.
 Modified Type "G" Terminal
 Section with W-Beam End
 Section (Rounded RWE03a)
 Per Detail Sheet C20

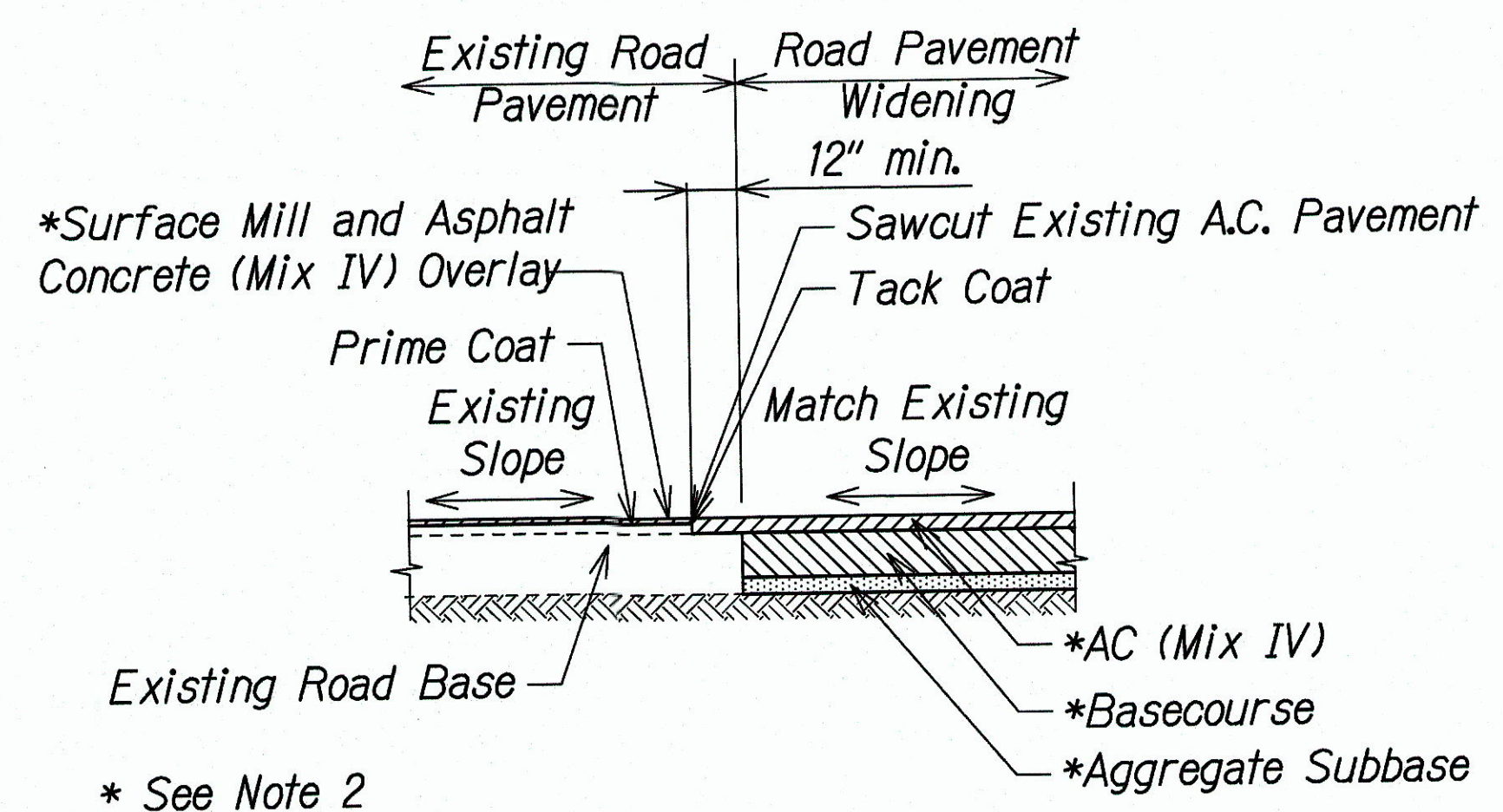
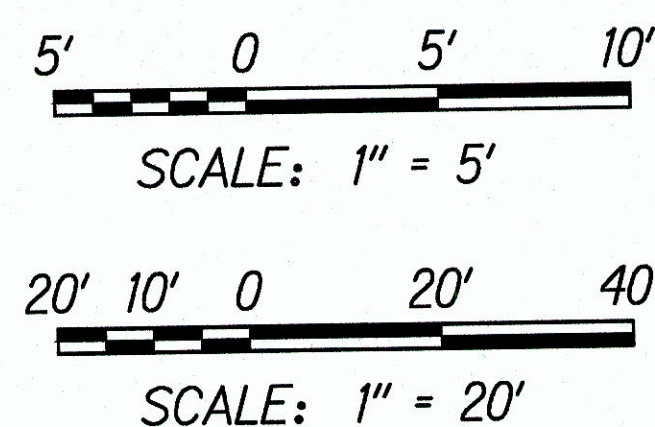
Sta. 148+77± 0/S 18' Lt. to Sta. 149+25± 0/S 23' Lt.
 Install Rubrail, See Detail Sheet C24



NOTES:

- The Contractor shall restore the existing deck drains on Waimanalo Stream Bridge to provide positive drainage from roadway, this work shall be considered incidental to Item 401.0100. See Sheet C36 for Details.
- For Pavement Design Recommendations, See latest Geotechnical Report from Masa Fujioka & Associates dated Nov. 11, 2013.
- All private driveways (beyond the State ROW) that require reconstruction shall consist of 2" A.C. (Mix IV) and 6" Aggregate Subbase.
- See Sheets C41 - C48 for Highway Plan and Profile Information.
- The Contractor shall probe near utility lines before installing guardrail posts. This work shall be considered incidental to guardrail items.
- Relocate existing water meters behind New Guardrail.

GRAPHICAL SCALES:



PLAN

SCALE: 1" = 20'

LEGEND:

- 3B Fine Aggregate Base (1-1/2" Max. Size per HSS Section 703.23)
- 2" A.C. (Mix IV)
- 1" Mill and 2" A.C. (Mix IV) Overlay (Min.)
- Pavement Reconstruction 4" Hot Mix Asphalt (Mix IV) 8" Hot Mix Asphalt Concrete Base 6" Aggregate Subbase
- A.C. Driveways 2" A.C. (Mix IV) 6" Aggregate Subbase
- match to existing driveway

LEGEND FOR AS-BUILT POSTINGS

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

05/02/17	Wall B, Driveway adjustment and Water Meters Relocation
08/25/16	Added New Raised Island at Sta. 150+46 to Sta. 4+68 and Moved Driveway from Sta. 5+76 to Sta. 6+00

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ROADWAY PLAN KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1 Olomana Golf Course To Vicinity of Poalima St. Federal Aid Project No. NH-072-K(53) Scale: AS NOTED Date: March, 2019 SHEET No. C35 OF 73 SHEETS	

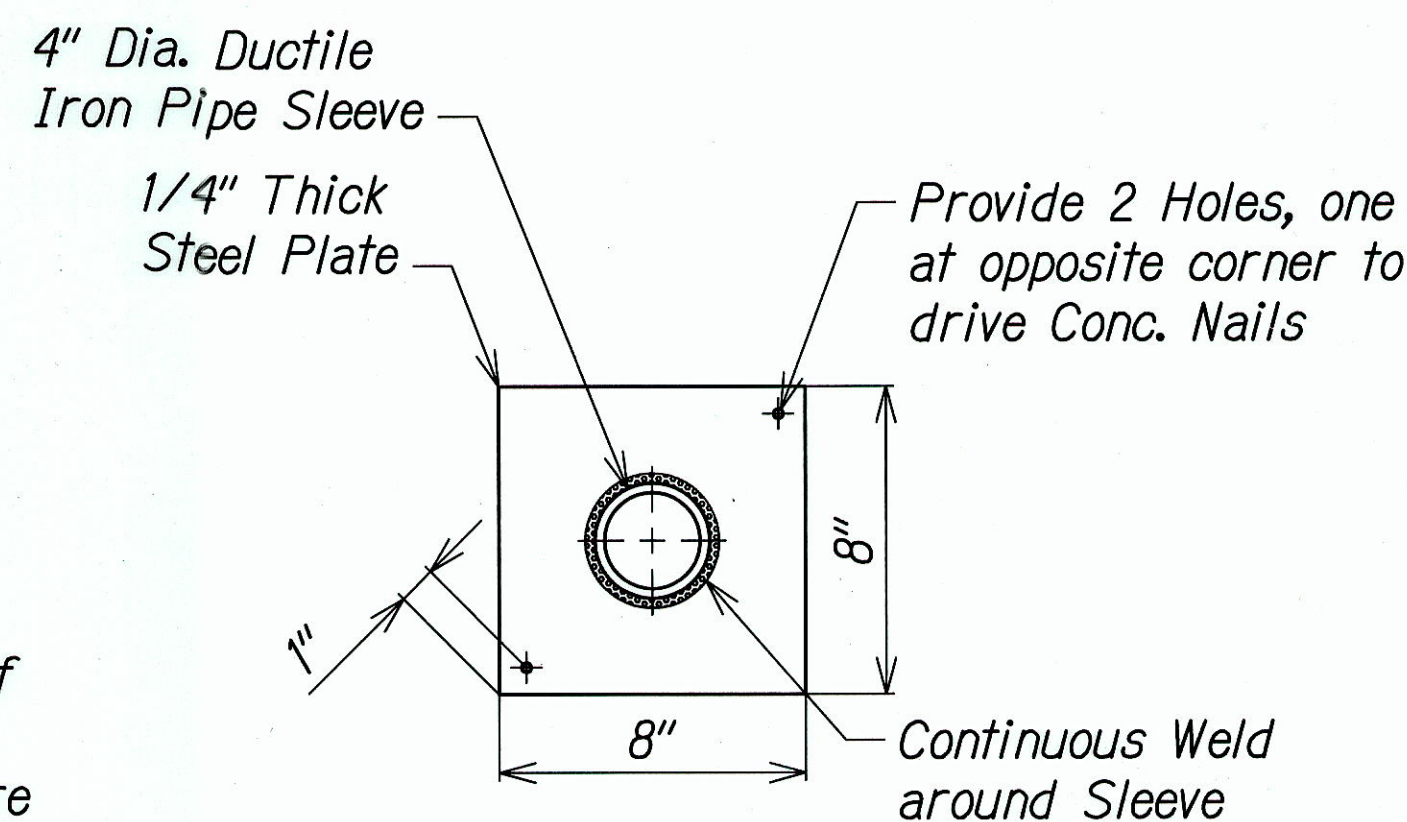
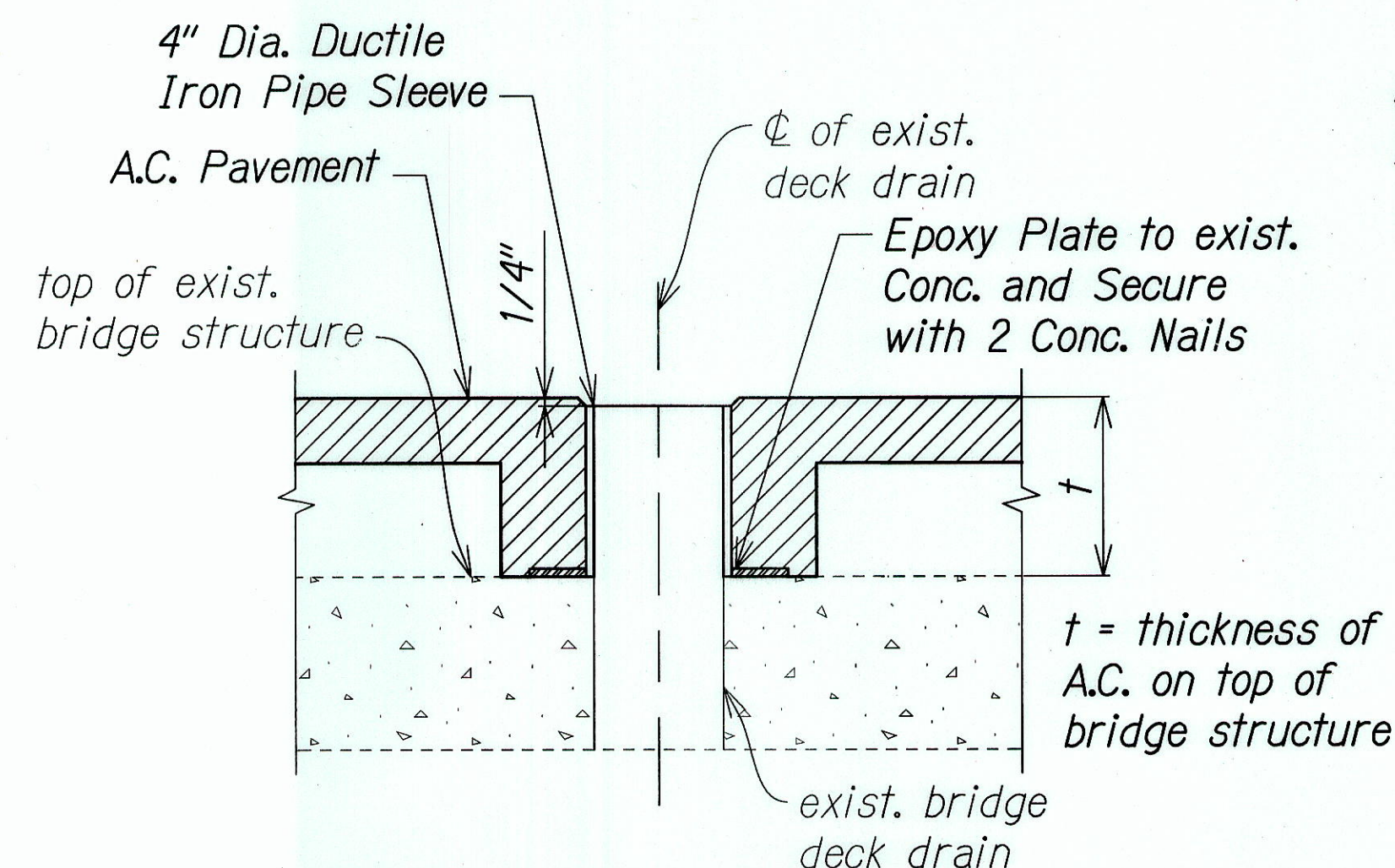
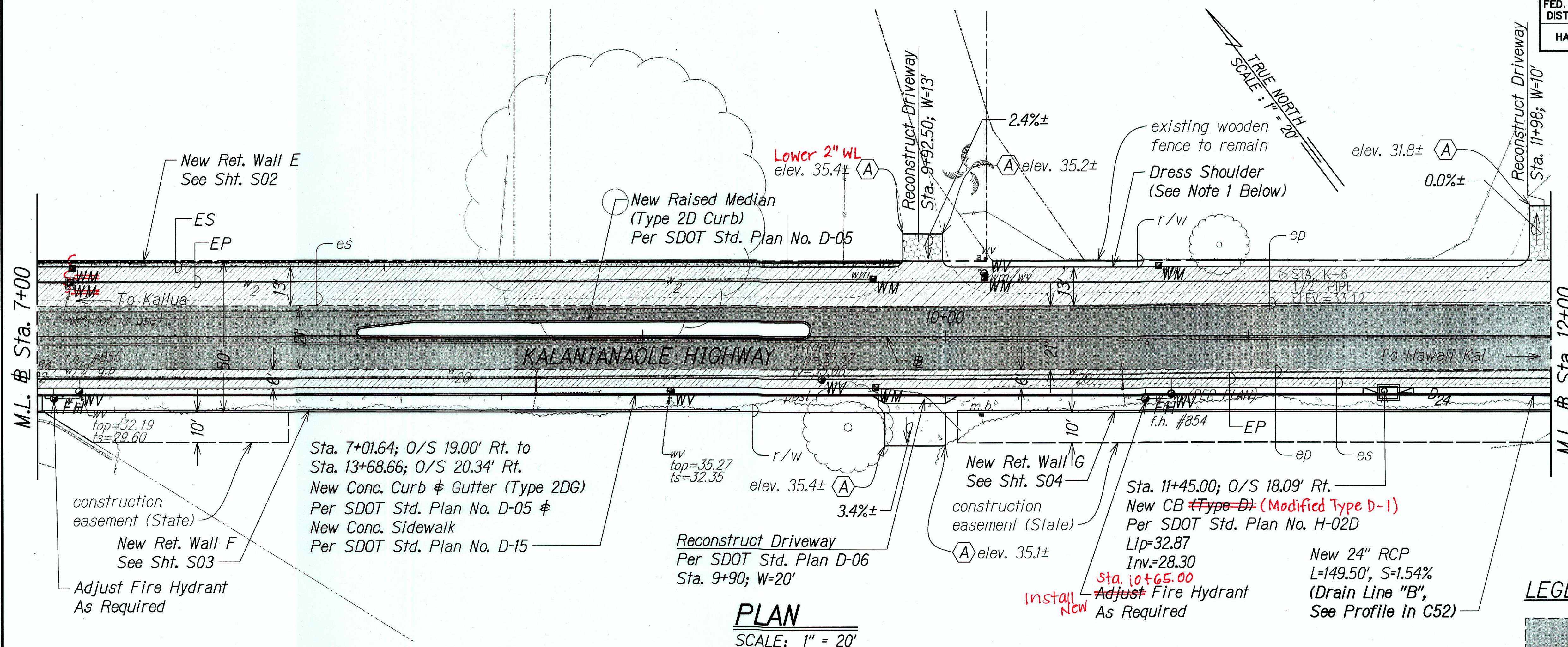
"AS-BUILT"

C.O. 35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	36	117

NOTES:

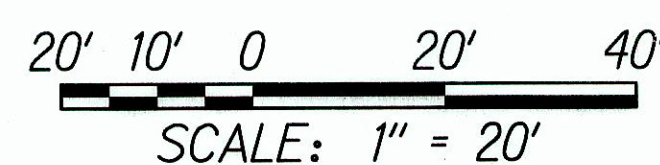
- For Pavement Safety Edge Detail, see Sheet C30. This work shall be considered incidental to Hot Mix Asphalt Item No. 401.0100.
- All private driveways (beyond the State ROW) that require reconstruction shall consist of 2" A.C. (Mix IV) and 6" Aggregate Subbase, excluding Driveway at Sta. 9+90.
- See Sheets C41 - C48 for Highway Plan and Profile Information.



LEGEND:

- 2" Mill and 2" A.C. (Mix IV) Overlay
- Pavement Reconstruction
 - 4" Hot Mix Asphalt (Mix IV)
 - 8" Hot Mix Asphalt Concrete Base
 - 6" Aggregate Subbase
- 4" Aggregate Base (1-1/2" Max. Size per HSS Section 703.23)
- A.C. Driveways
 - 2" A.C. (Mix IV)
 - 6" Aggregate Subbase
- P.C.C. Driveways
 - 4" Concrete Pavement
 - 6" Aggregate Subbase
- (A) match to existing driveway

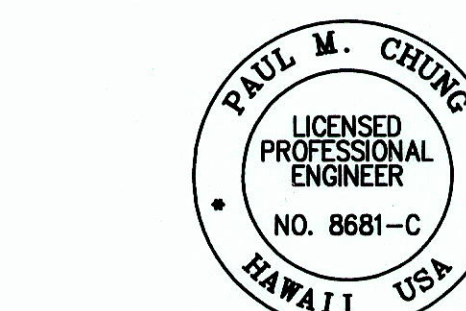
GRAPHICAL SCALES:



APPROVED:

MANAGER AND CHIEF ENGINEER, BWS
(For work affecting BWS Facilities in State R/W and BWS Easements only)

DATE



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

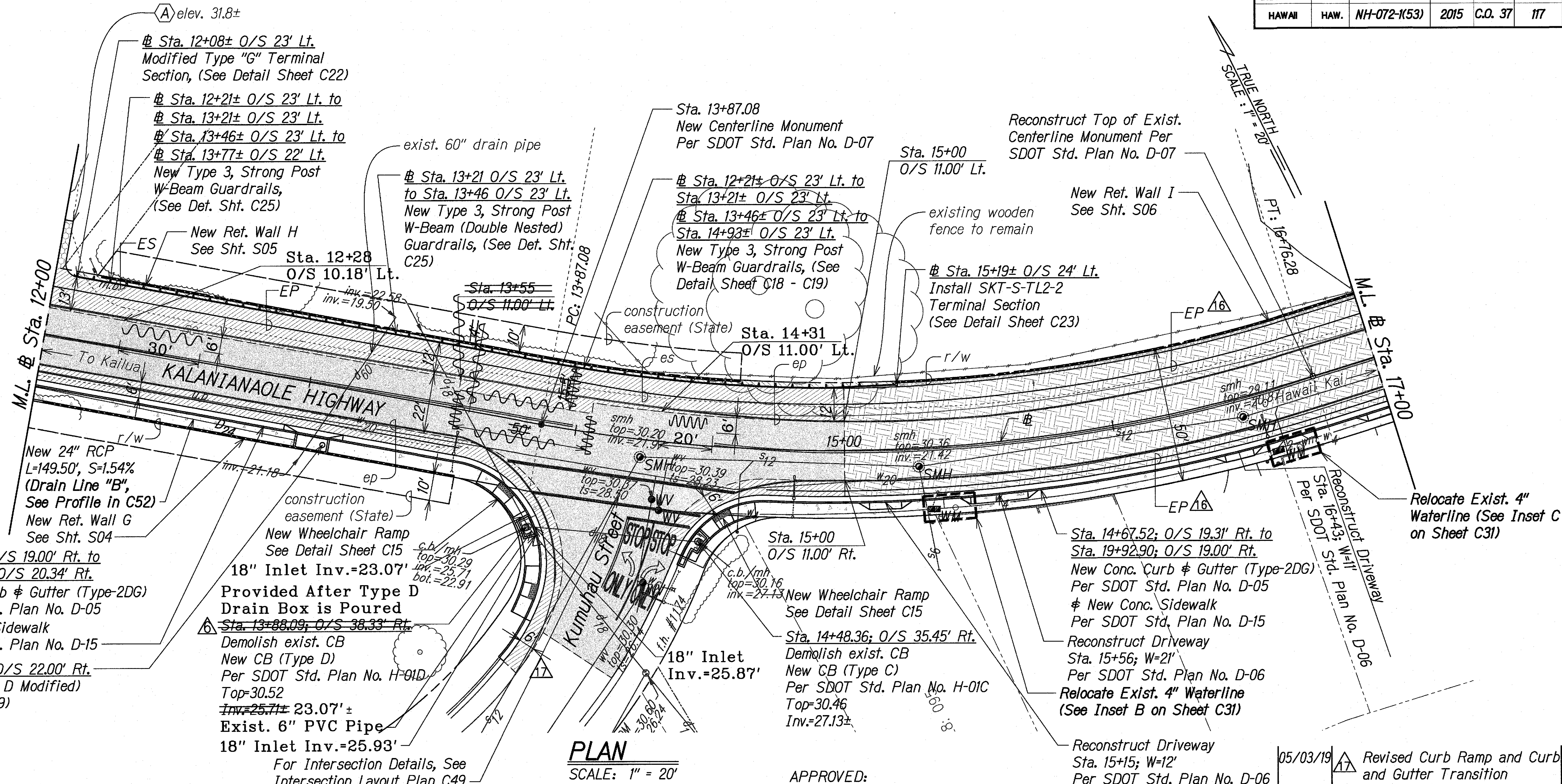
KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE I
Olomana Golf Course To Vicinity of Poalima St.
Federal Aid Project No. NH-072-1(53)

Scale: AS NOTED Date: July, 2015

SHEET No. C36 OF 71 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	C.O. 37	117



PLAN
SCALE: 1" = 20'

APPROVED:

MANAGER AND CHIEF ENGINEER, BWS
(For work affecting BWS Facilities in
State R/W and BWS Easements only)

DATE

NOTES:

- The Contractor shall inspect and clean all drain culverts within the project limits and shall be paid under Item No. 603.0300.
- The Contractor shall probe near utility lines before installing guardrail posts. This work shall be considered incidental to guardrail items.
- See Sheets C41 - C48 for Highway Plan and Profile Information.
- The Contractor shall verify location of existing waterlines prior to installation of new poles.

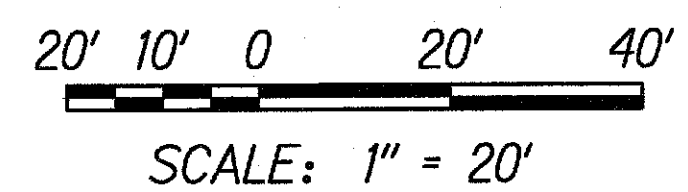
LEGEND:

- | | | | |
|--|---|--|---|
| | 2" A.C. (Mix IV) | | 4" Aggregate Base (1-1/2" Max. Size per HSS Section 703.23) |
| | 2" Mill and 2" A.C. (Mix IV) Overlay | | A.C. Driveways |
| | Pavement Reconstruction
4" Hot Mix Asphalt (Mix IV)
8" Hot Mix Asphalt Concrete Base
6" Aggregate Subbase | | 2" A.C. (Mix IV)
6" Aggregate Subbase |
| | Pavement Reconstruction
4" Hot Mix Asphalt (Mix IV)
7" Hot Mix Asphalt Concrete Base
11" Aggregate Subbase | | match to existing driveway |

LEGEND FOR
AS-BUILT POSTINGS

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

GRAPHICAL SCALE:



05/03/19		Revised Curb Ramp and Curb and Gutter Transition
03/08/19		Revised Striping Layout
09/01/16		Revised CB at Sta. 13+88.09 to Type D

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ROADWAY PLAN KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1 Olomana Golf Course To Vicinity of Poalima St. Federal Aid Project No. NH-072-1(53) Scale: AS NOTED Date: March, 2019 SHEET No. C37 OF 73 SHEETS	

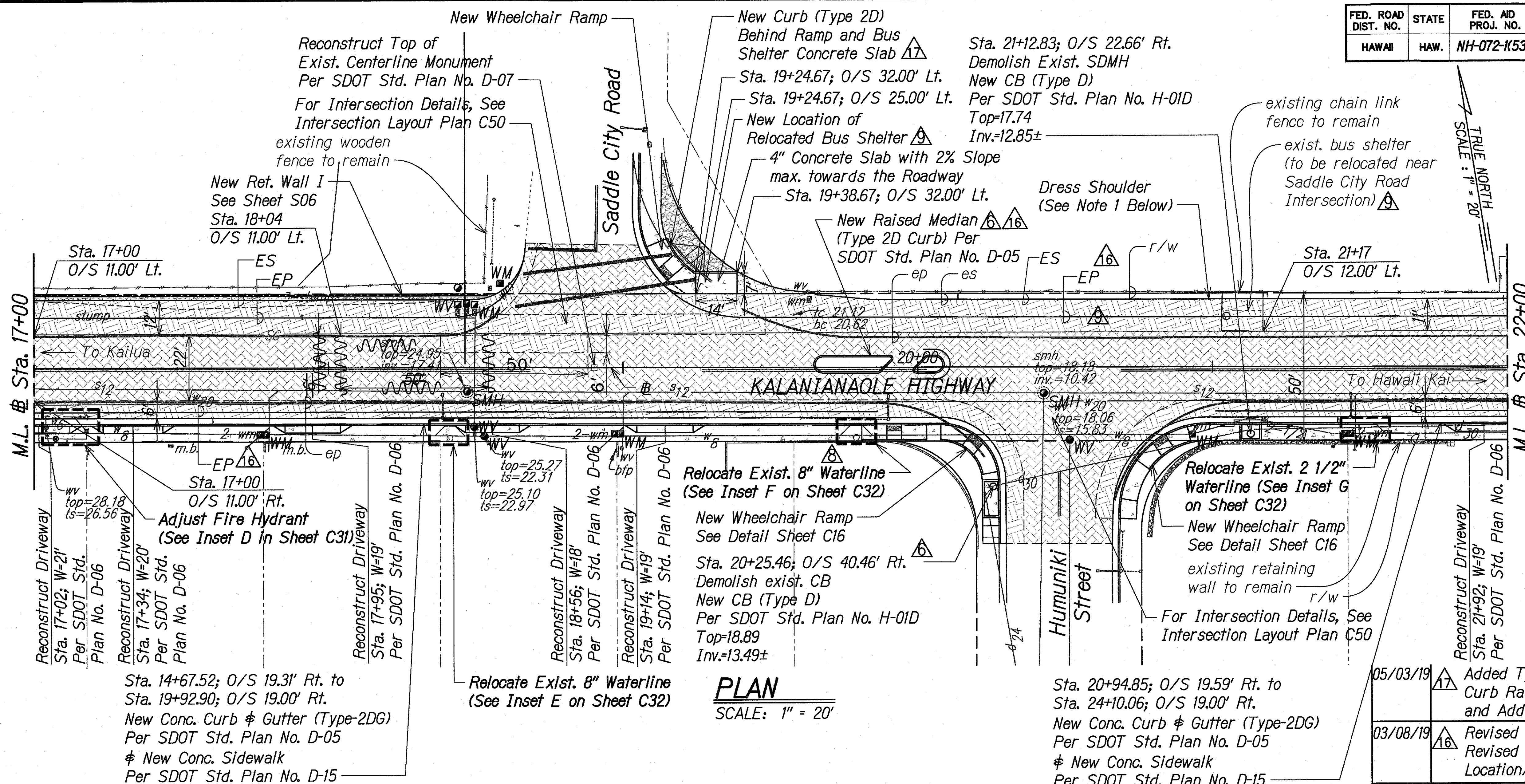
"AS-BUILT"

C.O. 37

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-K(53)	2015	C.O. 38	117



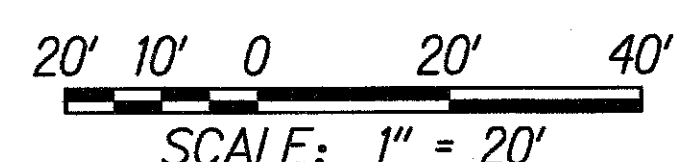
NOTES:

- For Pavement Safety Edge Detail, see Sheet C30. This work shall be considered incidental to Hot Mix Asphalt Item No. 401.0100.
- The Contractor shall inspect and clean all drain culverts within the project limits and shall be paid under Item No. 603.0300.
- The Contractor shall verify location of existing waterlines prior to installation of new poles.

LEGEND:

	1" Mill and 2" A.C. (Mix IV) Overlay (Min.)
	Pavement Reconstruction
	4" Hot Mix Asphalt (Mix IV)
	7" Hot Mix Asphalt Concrete Base
	11" Aggregate Subbase
	4" Aggregate Base (1-1/2" Max. Size per HSS Section 703.23)

GRAPHICAL SCALE:



APPROVED:

MANAGER AND CHIEF ENGINEER, BWS
(For work affecting BWS Facilities in State R/W and BWS Easements only)

DATE

LEGEND FOR AS-BUILT POSTINGS

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

05/03/19	Added Type 2D Curb Behind Curb Ramp and Bus Shelter, and Added Gravel Surface
03/08/19	Revised Striping Layout and Revised Raised Island Location/Length
04/26/17	Replace West-Bound shoulder AC overlay with Full Pavement Reconstruction Between Sta. 19+41 to Sta. 21+00 and New Location of Bus Shelter
02/28/17	Relocated Street Light Pole (P59)
09/01/16	Added New Raised Island at Sta. 19+81 and Revised Catch Basin to Type D

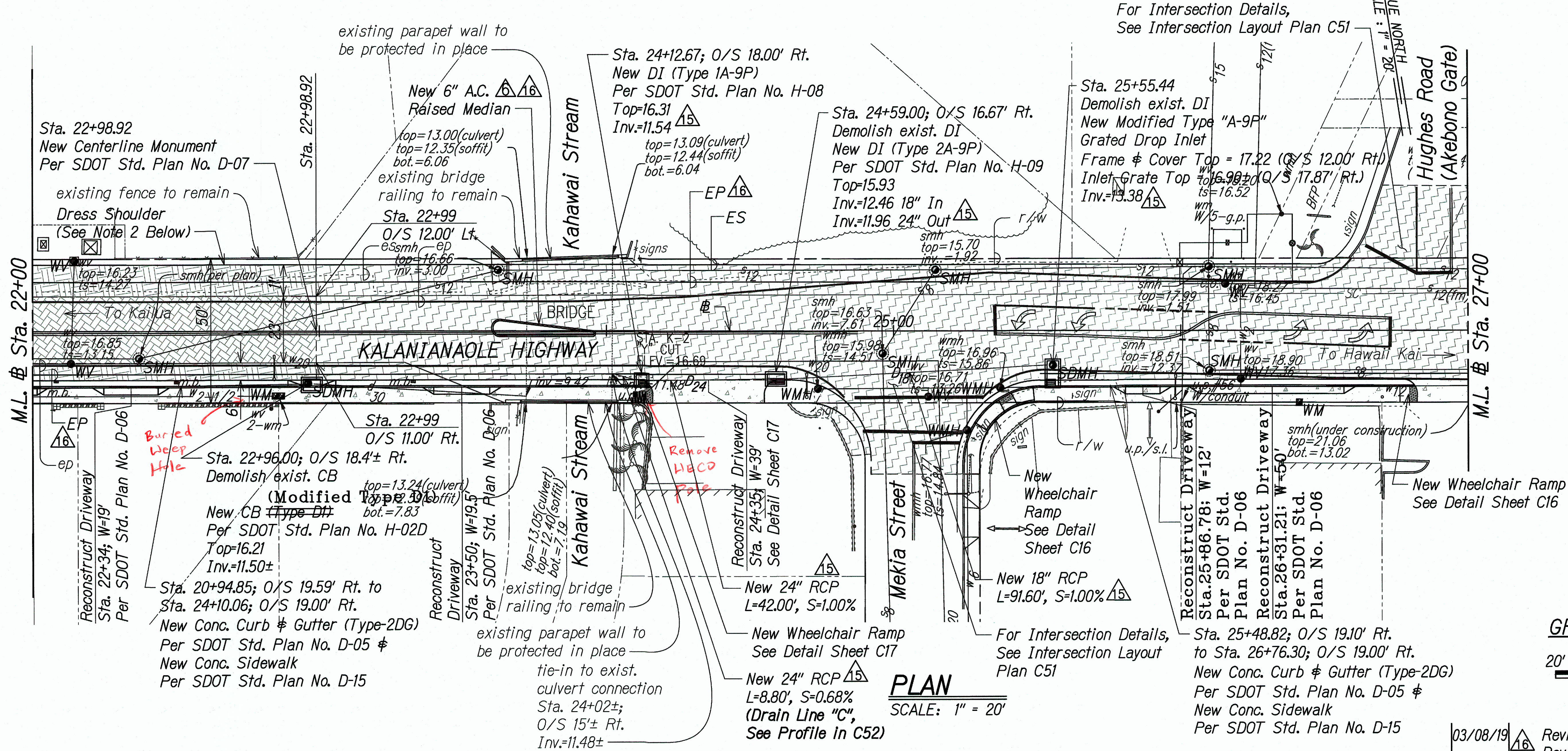
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PLAN	
KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1 Olomana Golf Course To Vicinity of Poalima St.	
Federal Aid Project No. NH-072-K(53)	
Scale: AS NOTED	Date: March, 2019
SHEET No. C38 OF 73 SHEETS	

"AS-BUILT"

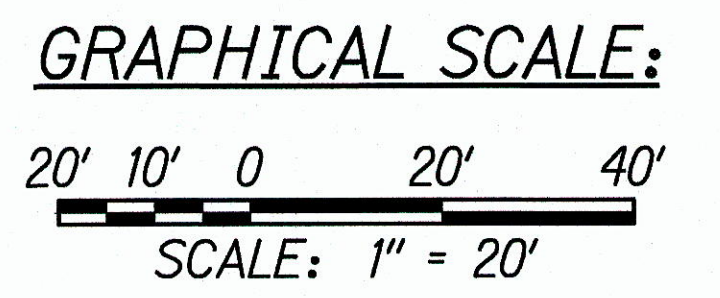
C.O. 38

ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	C.O. 39	117



PLAN
SCALE: 1" = 20'



NOTES:

- The Contractor shall restore the existing deck drains on Kahawai Stream Bridge makai (North) side to provide positive drainage from roadway, this work shall be considered incidental to Item 401.0100. See Sheet C36 for Details.
- For Pavement Safety Edge Detail, see Sheet C30. This work shall be considered incidental to Hot Mix Asphalt Item No. 401.0100.
- The Contractor shall inspect and clean all drain culverts within the project limits and shall be paid under Item No. 603.0300.

LEGEND:

- | | |
|--|---|
| | 1" Mill and 2" A.C. (Mix IV) Overlay (Min.) |
| | Pavement Reconstruction
4" Hot Mix Asphalt (Mix IV)
7" Hot Mix Asphalt Concrete Base
11" Aggregate Subbase |
| | Pavement Reconstruction
4" Hot Mix Asphalt (Mix IV)
7" Hot Mix Asphalt Concrete Base
14" Aggregate Subbase |

LEGEND FOR AS-BUILT POSTINGS

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

03/08/19		Revised Striping Layout and Revised Raised Island Location/Length
02/01/19		Revised Drop Inlets at Kahawaii Stream
08/25/16		Added New A.C. Raised Median at Sta. 23+60 to Sta. 23+96
DATE	REVISION	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>ROADWAY PLAN</u>	
<u>KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1</u> <u>Olomana Golf Course To Vicinity of Poalima St.</u> <u>Federal Aid Project No. NH-072-1(53)</u>	
Scale: AS NOTED	Date: March, 2019
SHEET No. C39 OF 73 SHEETS	

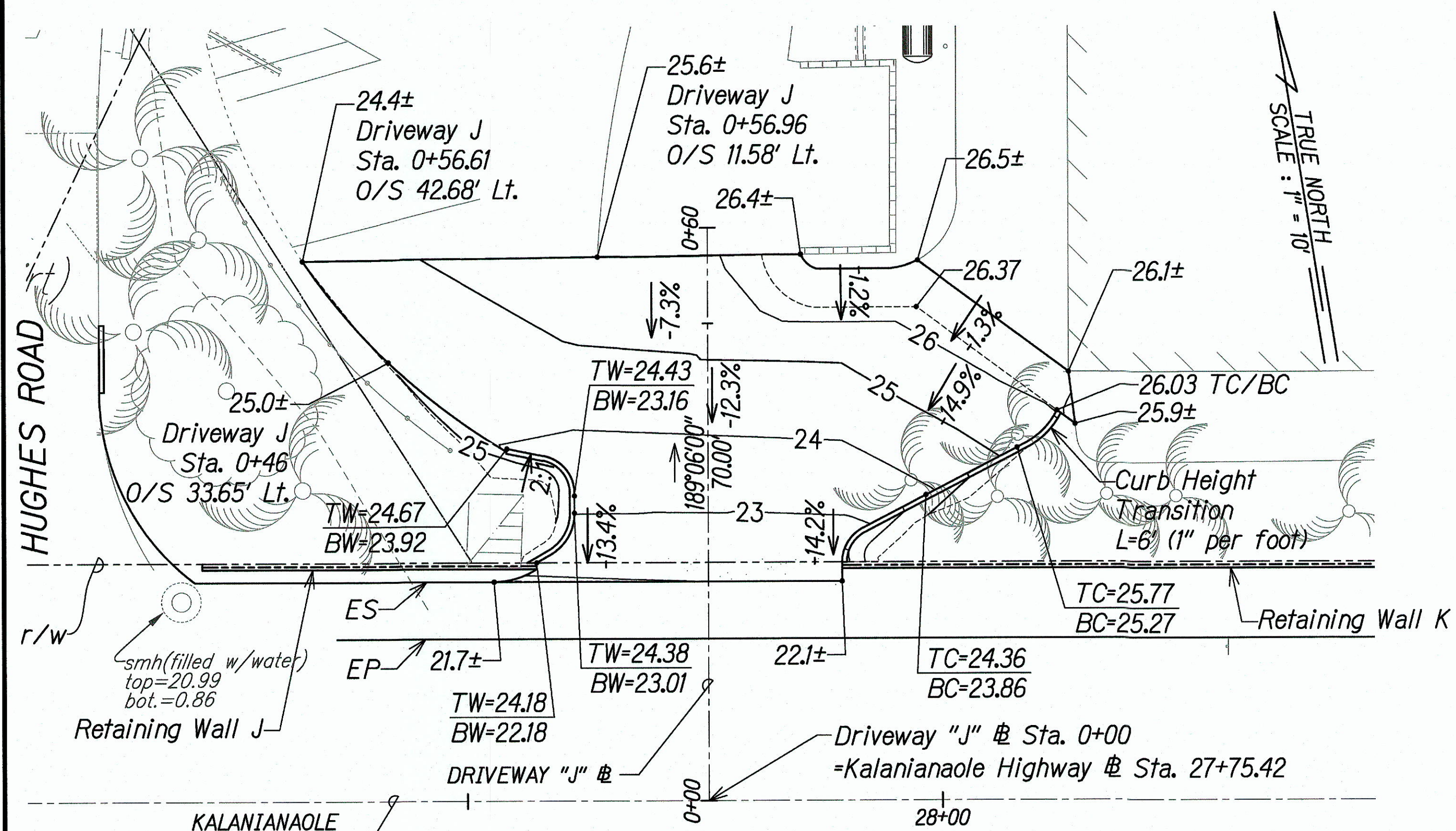
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C.O. 39

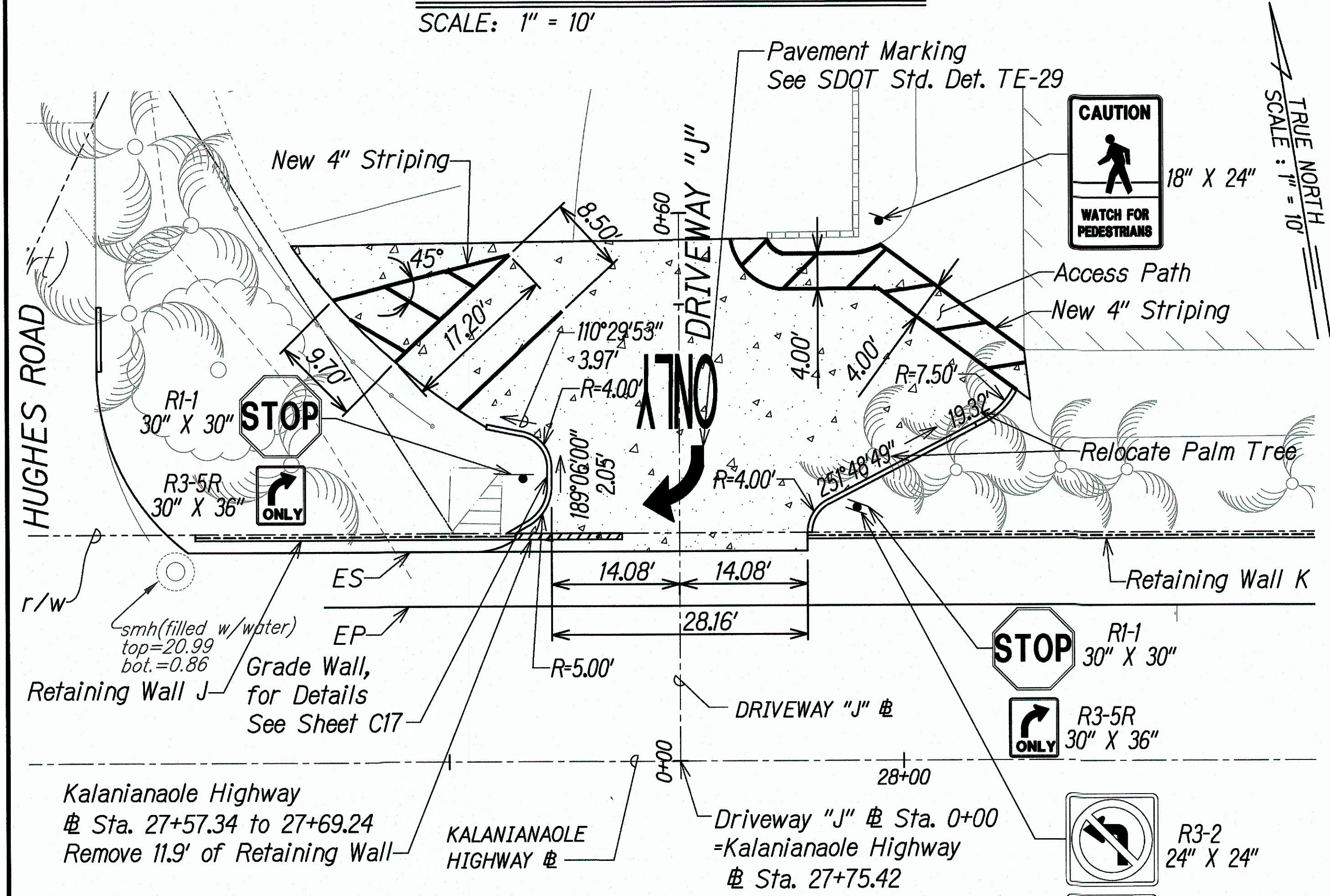
SURVEY PLOTTED BY	DATE
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TRACED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

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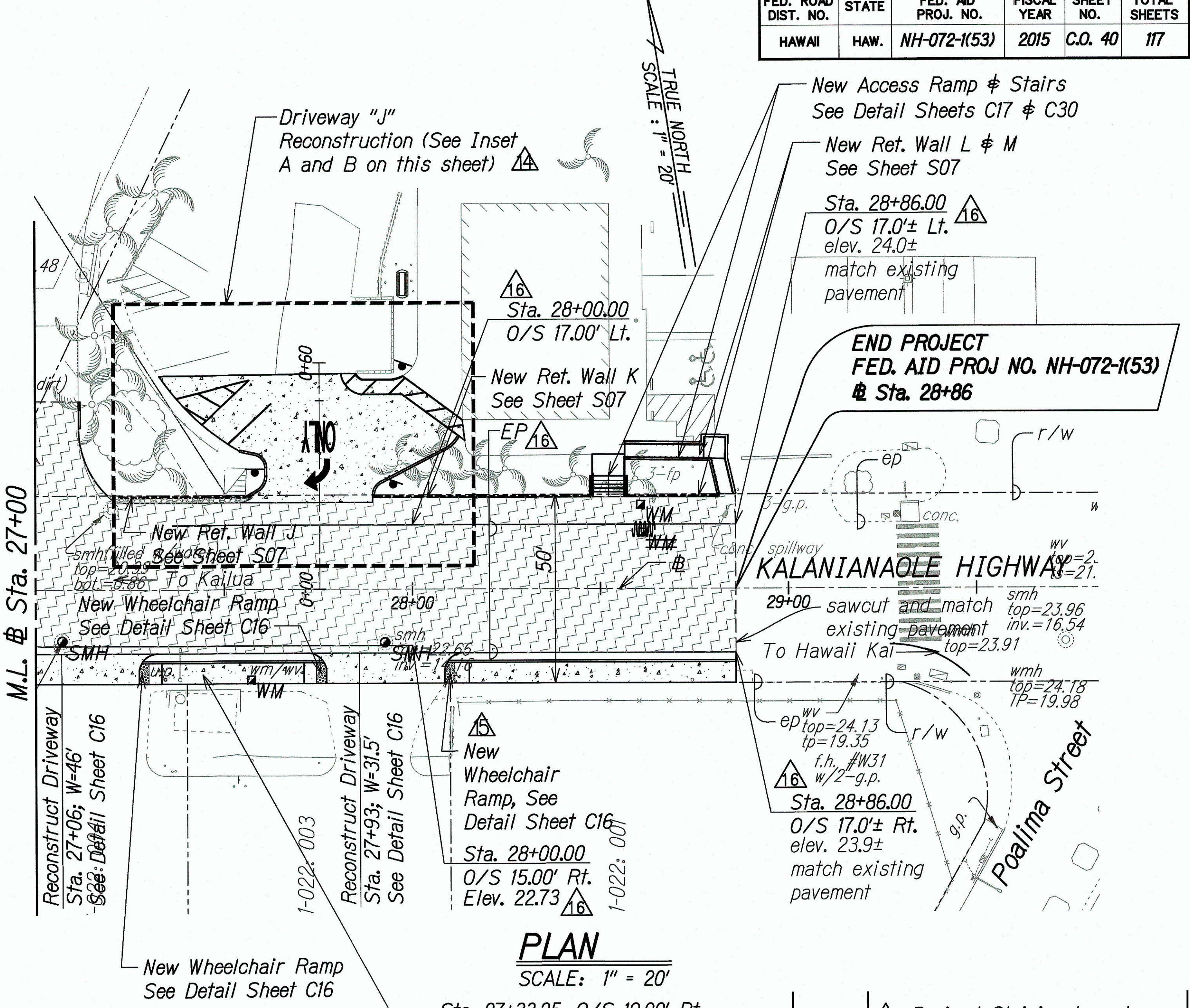
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-(53)	2015	C.O. 40	117



INSET A - GRADING PLAN
SCALE: 1" = 10'



INSET B - DRIVEWAY PLAN
SCALE: 1" = 10'



PLAN
SCALE: 1" = 20'

NOTE:
See Sheets C41 - C48 for Highway Plan and Profile Information.

LEGEND:

- Pavement Reconstruction
4" Hot Mix Asphalt (Mix IV)
7" Hot Mix Asphalt Concrete Base
14" Aggregate Subbase
- 4" Aggregate Base
(1-1/2" Max. Size per HSS Section 703.23)
- P.C.C. Driveways
8" Concrete Pavement
6" Aggregate Subbase

LEGEND FOR AS-BUILT POSTINGS

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

03/08/19	16	Revised Striping Layout
01/08/19	15	Concrete Sidewalk with Curb and Gutter and ADA Curb Ramp Added
09/21/18	14	Driveway Design Details Added
08/23/17	13	Curb ramp shifted to accomodate HECO Pole
REVISION		
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
ROADWAY PLAN		
KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1 Olomana Golf Course To Vicinity of Poalima St.		
Federal Aid Project No. NH-072-(53)		
Scale: AS NOTED Date: March, 2019		
SHEET No. C40 OF 73 SHEETS		