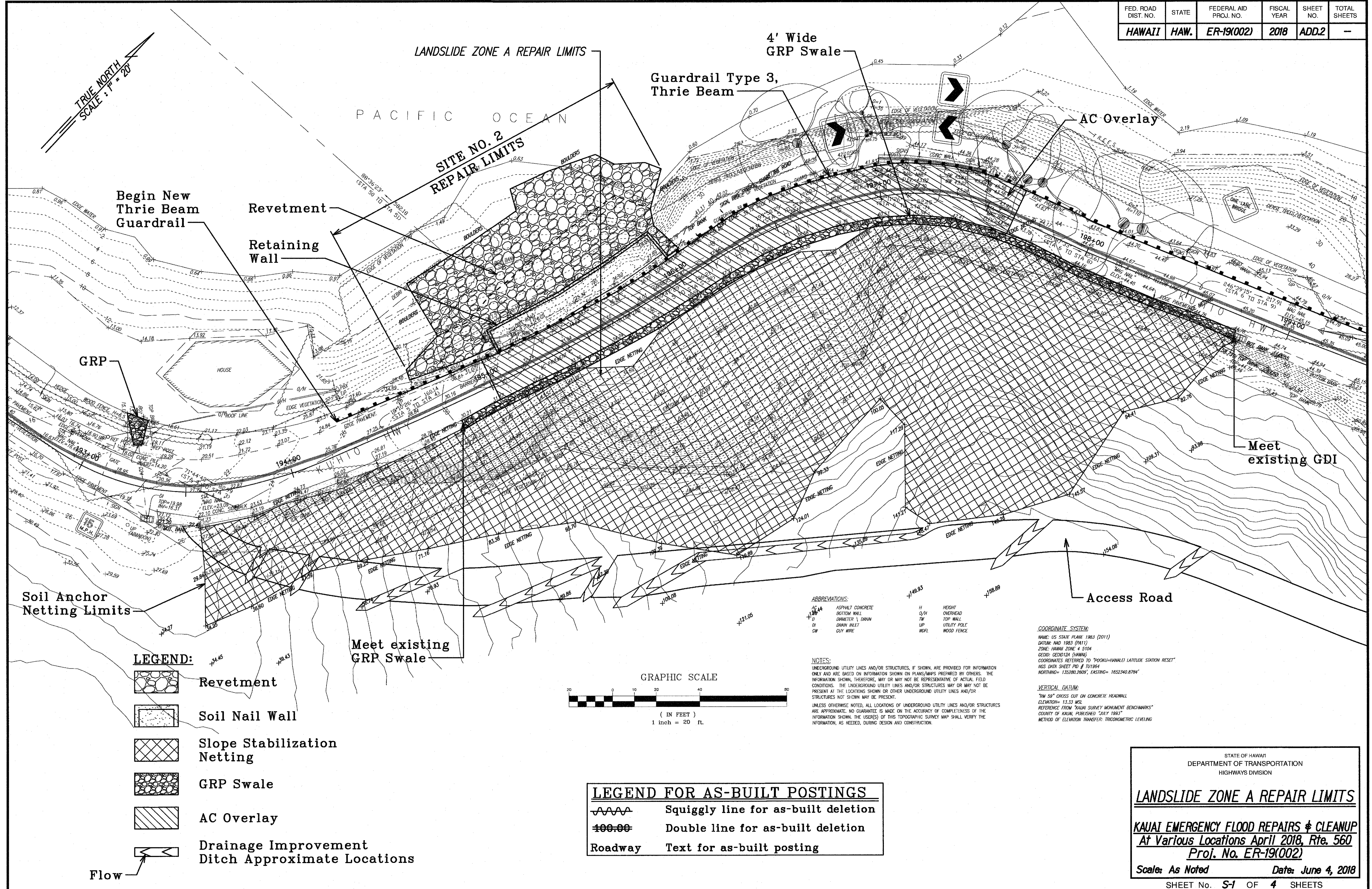


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-19(002)	2018	ADD.2	-



TRUE NORTH  
SCALE: P = 20'

Begin New Thrie Beam Guardrail

Revetment

Retaining Wall

GRP

Soil Anchor Netting Limits

Meet existing GRP Swale



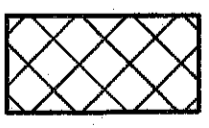
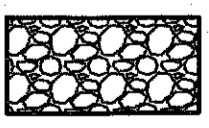
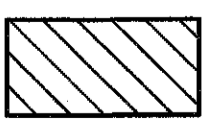
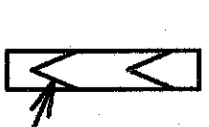


4' Wide GRP Swale  
Guardrail Type 3, Thrie Beam

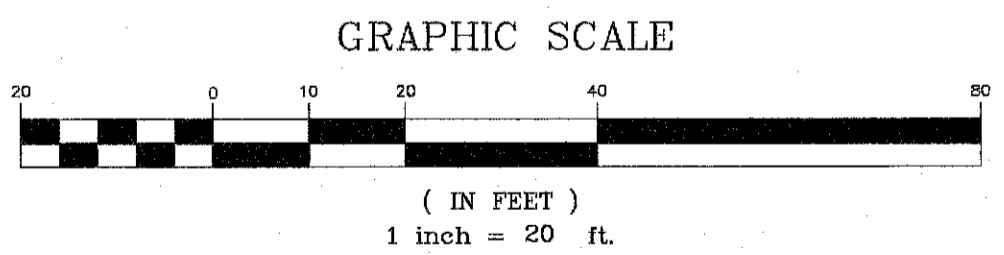
AC Overlay

Meet existing GDI

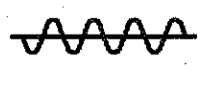
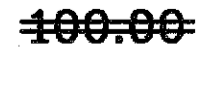
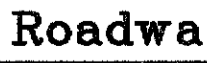
Access Road

**LEGEND:**

-  Revetment
  -  Soil Nail Wall
  -  Slope Stabilization Netting
  -  GRP Swale
  -  AC Overlay
  -  Drainage Improvement
  -  Ditch Approximate Locations
- Flow 



**LEGEND FOR AS-BUILT POSTINGS**

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

ABBREVIATIONS:

- AC ASPHALT CONCRETE
- B BOTTOM WALL
- D DIAMETER \, DRAIN
- DN DRAIN INLET
- GW GUY WIRE
- H HEIGHT OVERHEAD
- O/H TOP WALL
- UP UTILITY POLE
- W/FL WOOD FENCE

NOTES:

UNDERGROUND UTILITY LINES AND/OR STRUCTURES, IF SHOWN, ARE PROVIDED FOR INFORMATION ONLY AND ARE BASED ON INFORMATION SHOWN ON PLANS/AMPS PREPARED BY OTHERS. THE INFORMATION SHOWN, THEREFORE, MAY OR MAY NOT BE REPRESENTATIVE OF ACTUAL FIELD CONDITIONS. THE UNDERGROUND UTILITY LINES AND/OR STRUCTURES MAY OR MAY NOT BE PRESENT AT THE LOCATIONS SHOWN OR OTHER UNDERGROUND UTILITY LINES AND/OR STRUCTURES NOT SHOWN MAY BE PRESENT.

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**COORDINATE SYSTEM:**  
NAME: US STATE PLANE 1983 (2011)  
DATUM: NAD 1983 (PM11)  
ZONE: HAWAII ZONE 4 5104  
GEOID: GEOID12A (HAWAII)  
COORDINATES REFERRED TO "POOIKU-HAWALEI LATITUDE STATION RESET"  
NGS DATA SHEET PID # 711954  
NORTHING= 135080.2809, EASTING= 1652340.8794

**VERTICAL DATUM:**  
7/8" 5/8" CROSS CUT LH CONCRETE HEADWALL  
ELEVATION= 13.13 MSL  
REFERENCE FROM "KAHAI SURVEY MONUMENT BENCHMARK"  
COUNTY OF KAUAI, PUBLISHED "JULY 1983"  
METHOD OF ELEVATION TRANSFER: TRIGONOMETRIC LEVELING

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LANDSLIDE ZONE A REPAIR LIMITS**

**KAUAI EMERGENCY FLOOD REPAIRS & CLEANUP**  
At Various Locations April 2018, Rte. 560  
Proj. No. ER-19(002)

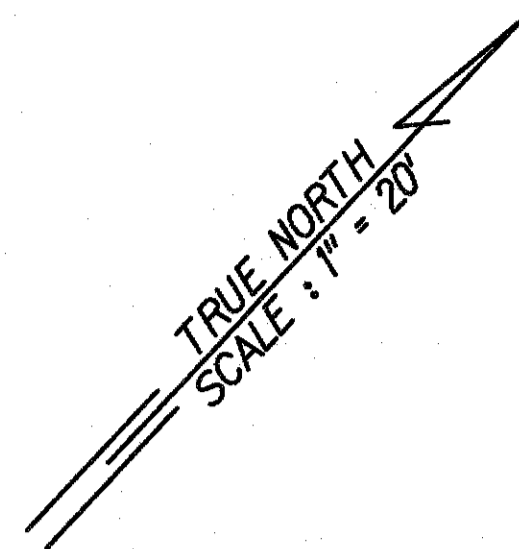
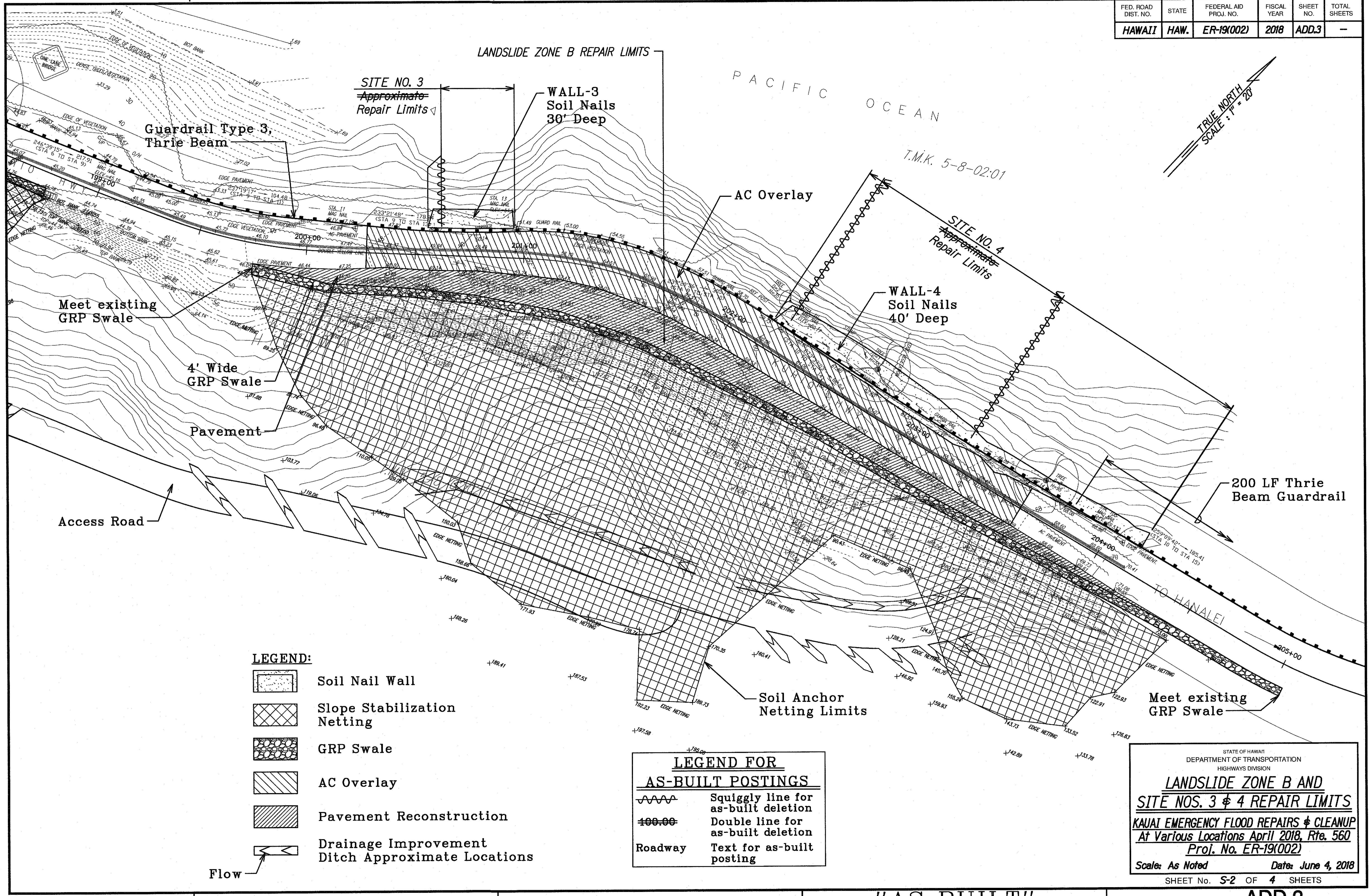
Scale: As Noted      Date: June 4, 2018

SHEET No. S-1 OF 4 SHEETS

"AS-BUILT"

ADD.2

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-19(002)	2018	ADD.3	-



**LANDSLIDE ZONE B REPAIR LIMITS**

**SITE NO. 3**  
Approximate Repair Limits

**WALL-3**  
Soil Nails  
30' Deep

**AC Overlay**

**SITE NO. 4**  
Approximate Repair Limits

**WALL-4**  
Soil Nails  
40' Deep

**Guardrail Type 3, Thrie Beam**

**Meet existing GRP Swale**

**4' Wide GRP Swale**

**Pavement**

**Access Road**

**200 LF Thrie Beam Guardrail**

**Meet existing GRP Swale**

**Soil Anchor Netting Limits**

**PACIFIC OCEAN**

**T.M.K. 5-8-02:01**

**TO HANAIEI**

DESIGNED BY	
CHECKED BY	
DATE	
APPROVED BY	
DATE	
PROJECT NO.	
PROJECT NAME	
PROJECT LOCATION	
PROJECT DESCRIPTION	
PROJECT STATUS	
PROJECT OWNER	
PROJECT CONTACT	
PROJECT PHONE	
PROJECT FAX	
PROJECT EMAIL	
PROJECT WEBSITE	
PROJECT ADDRESS	
PROJECT CITY	
PROJECT STATE	
PROJECT ZIP	

**LEGEND:**

	Soil Nail Wall
	Slope Stabilization Netting
	GRP Swale
	AC Overlay
	Pavement Reconstruction
	Drainage Improvement
	Ditch Approximate Locations

Flow

**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

**LANDSLIDE ZONE B AND  
SITE NOS. 3 & 4 REPAIR LIMITS**

**KAUAI EMERGENCY FLOOD REPAIRS & CLEANUP**  
At Various Locations April 2018, Rte. 560  
Proj. No. ER-19(002)

Scale: As Noted Date: June 4, 2018

SHEET No. S-2 OF 4 SHEETS

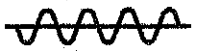
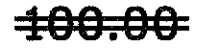
"AS-BUILT"

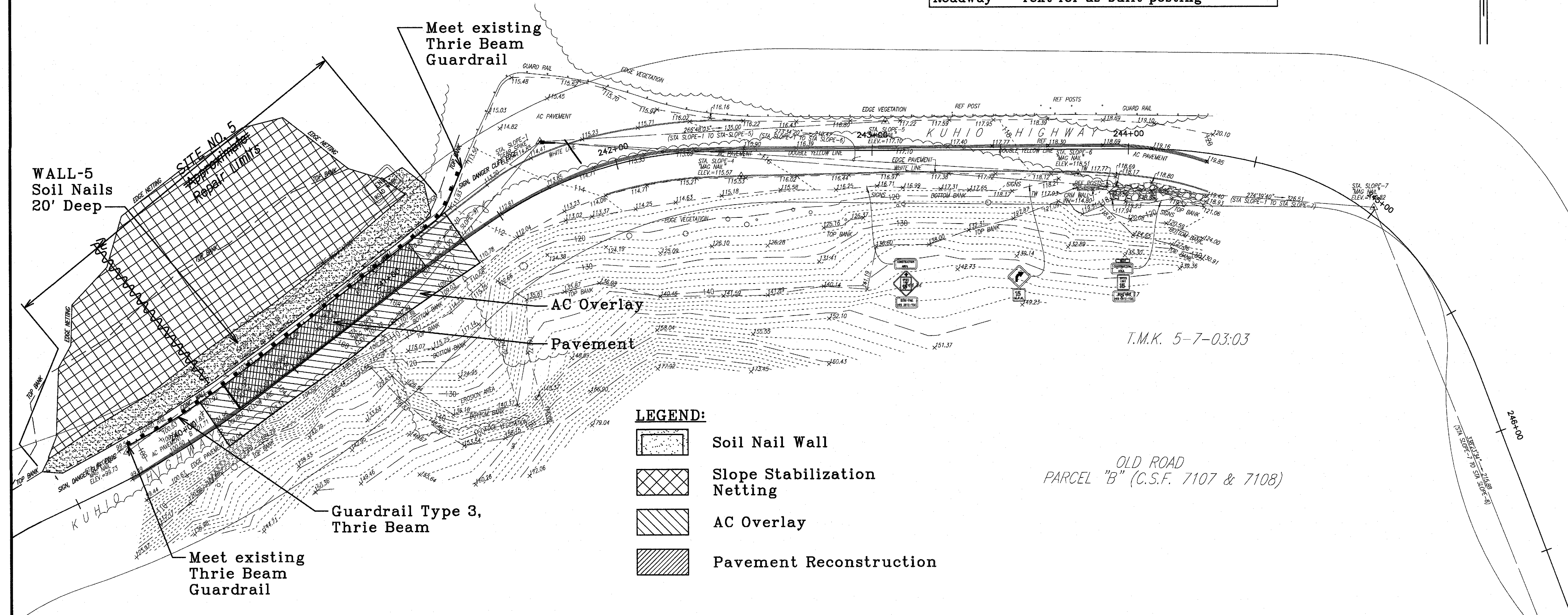
ADD.3



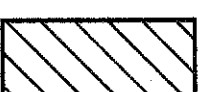

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-19(002)	2018	ADD.4	-

TRUE NORTH  
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



- LEGEND:**
-  Soil Nail Wall
  -  Slope Stabilization Netting
  -  AC Overlay
  -  Pavement Reconstruction

OLD ROAD  
PARCEL "B" (C.S.F. 7107 & 7108)

T.M.K. 5-7-03:03

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
APPROVED BY	

**ABBREVIATIONS:**

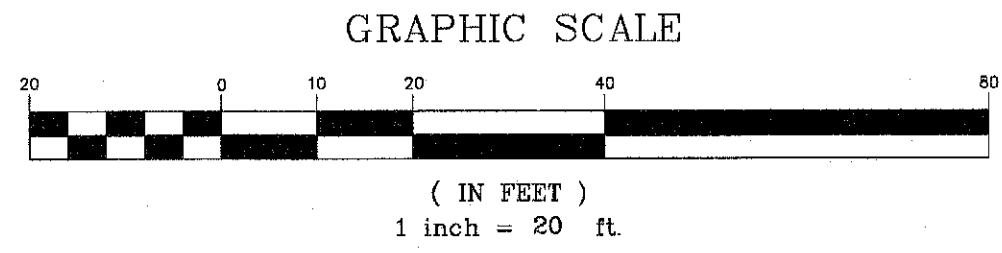
AC	ASPHALT CONCRETE	G	GROUND
BM	BOTTOM WALL	GW	GRIP WIRE
CONC	CONCRETE	H	HEIGHT
CRM	CONCRETE RUBBLE MASONRY (ROCK) WALL	HW	HEAVY
D	DRAWING	CH	CHANGED
DI	DRAIN INLET	TM	TOP WALL
ELEV	ELEVATION	UP	UTILITY POLE / POLE MOUNT

**NOTES:**

THIS MAP AND ASSOCIATED CAD FILE IS A TOPOGRAPHIC SURVEY OF THE SUBJECT PARCEL OR PROJECT SITE. THE DEPICTION OF BOUNDARIES AND ENCUMBRANCES AFFECTING THE PROJECT SITE ARE TAKEN FROM LATEST TAX MAPS ONLY. OBTAINING A COPY OF THE CURRENT TITLE REPORT OR DEED FOR AREAS WHERE PROPERTY AND ENCUMBRANCE ISSUES ARE CRITICAL IS RECOMMENDED PRIOR TO ANY DESIGN AND CONSTRUCTION WORK.

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SITE NO. 5 REPAIR LIMITS**

**KAUAI EMERGENCY FLOOD REPAIRS & CLEANUP**  
At Various Locations April 2018, Rte. 560  
Proj. No. ER-19(002)

Scale: As Noted      Date: June 4, 2018

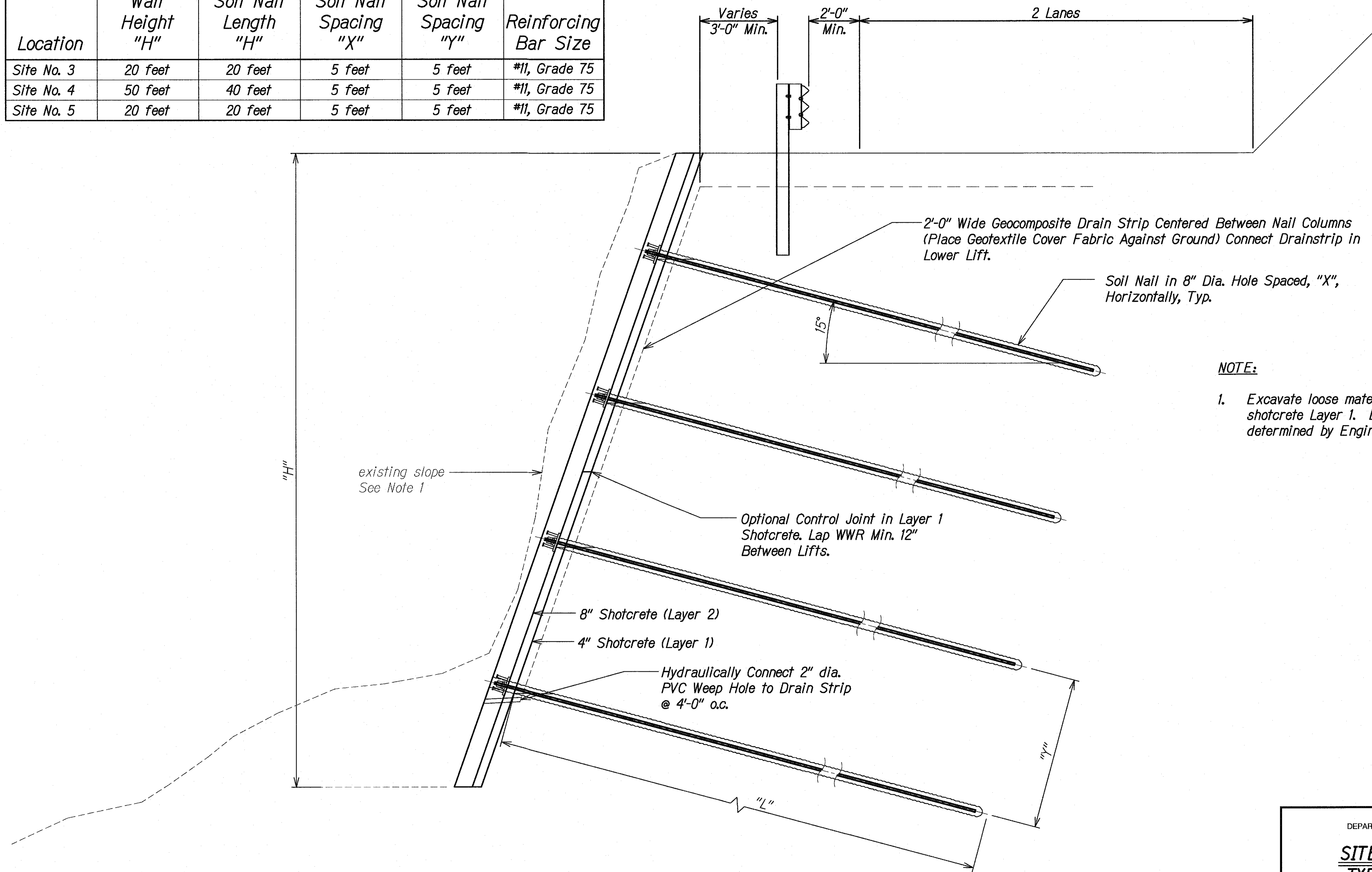
SHEET No. S-3 OF 4 SHEETS

"AS-BUILT"

ADD.4

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-19(002)	2018	ADD.5	--

Location	Estimated Wall Height "H"	Estimated Soil Nail Length "H"	Horizontal Soil Nail Spacing "X"	Vertical Soil Nail Spacing "Y"	Reinforcing Bar Size
Site No. 3	20 feet	20 feet	5 feet	5 feet	#11, Grade 75
Site No. 4	50 feet	40 feet	5 feet	5 feet	#11, Grade 75
Site No. 5	20 feet	20 feet	5 feet	5 feet	#11, Grade 75



**NOTE:**

- Excavate loose material and shotcrete Layer 1. Limits to be determined by Engineer.

**SECTION A**  
Scale: 1/2" = 1'-0"

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

DRAWING NAME: 2\00 ONGONG\18-008.1-KUHO HWY (8) ADDNL MAJKA LANDSLIDES-DOT\01 CAD\03-26-21 AS-BUILTS\05 WSS-504 SMALL-5.DWG PLOT TIME: 03-25-21, 9:10 AM

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SITE NOS. 3, 4, & 5**  
**TYPICAL SECTION**

KAUAI EMERGENCY FLOOD REPAIRS & CLEANUP  
At Various Locations April 2018, Rte. 560  
Proj. No. ER-19(002)

Scale: As Noted Date: June 4, 2018

SHEET No. S-4 OF 4 SHEETS