

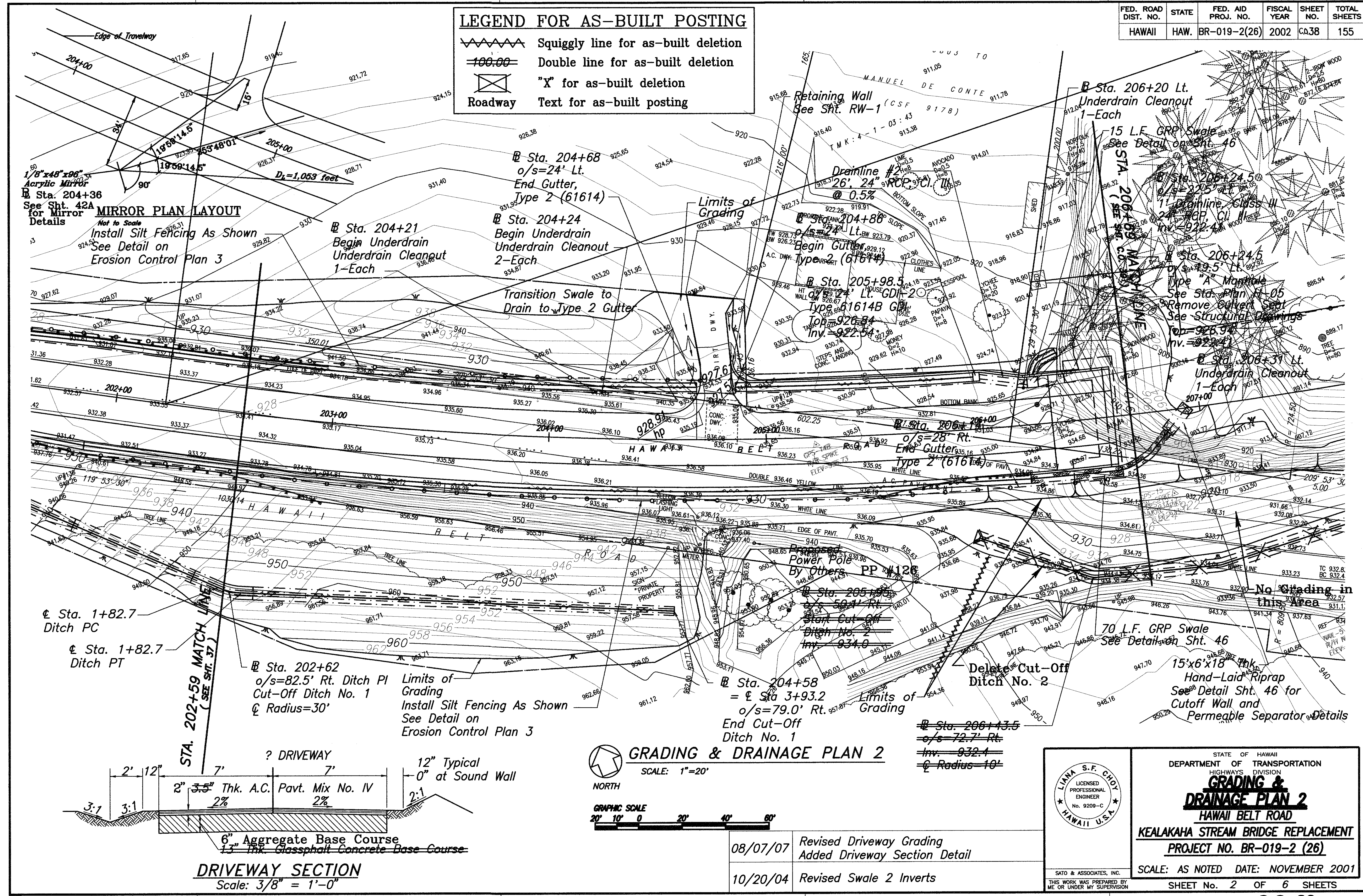
JAMES NAKATA,
OWNER



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(26)	2002	CA38	155

LEGEND FOR AS-BUILT POSTING

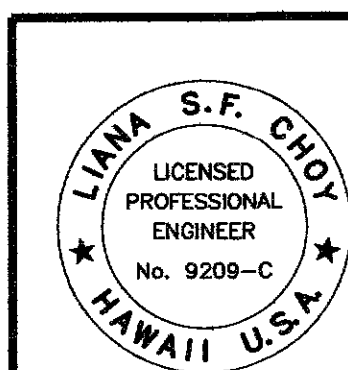
- Squiggly line for as-built deletion
- Double line for as-built deletion
- "X" for as-built deletion
- Roadway Text for as-built posting



ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
TRACED BY	
DESIGNED BY	
TRACED BY	
DESIGNED BY	
TRACED BY	
DESIGNED BY	
TRACED BY	



08/07/07	Revised Driveway Grading Added Driveway Section Detail
10/20/04	Revised Swale 2 Inverts

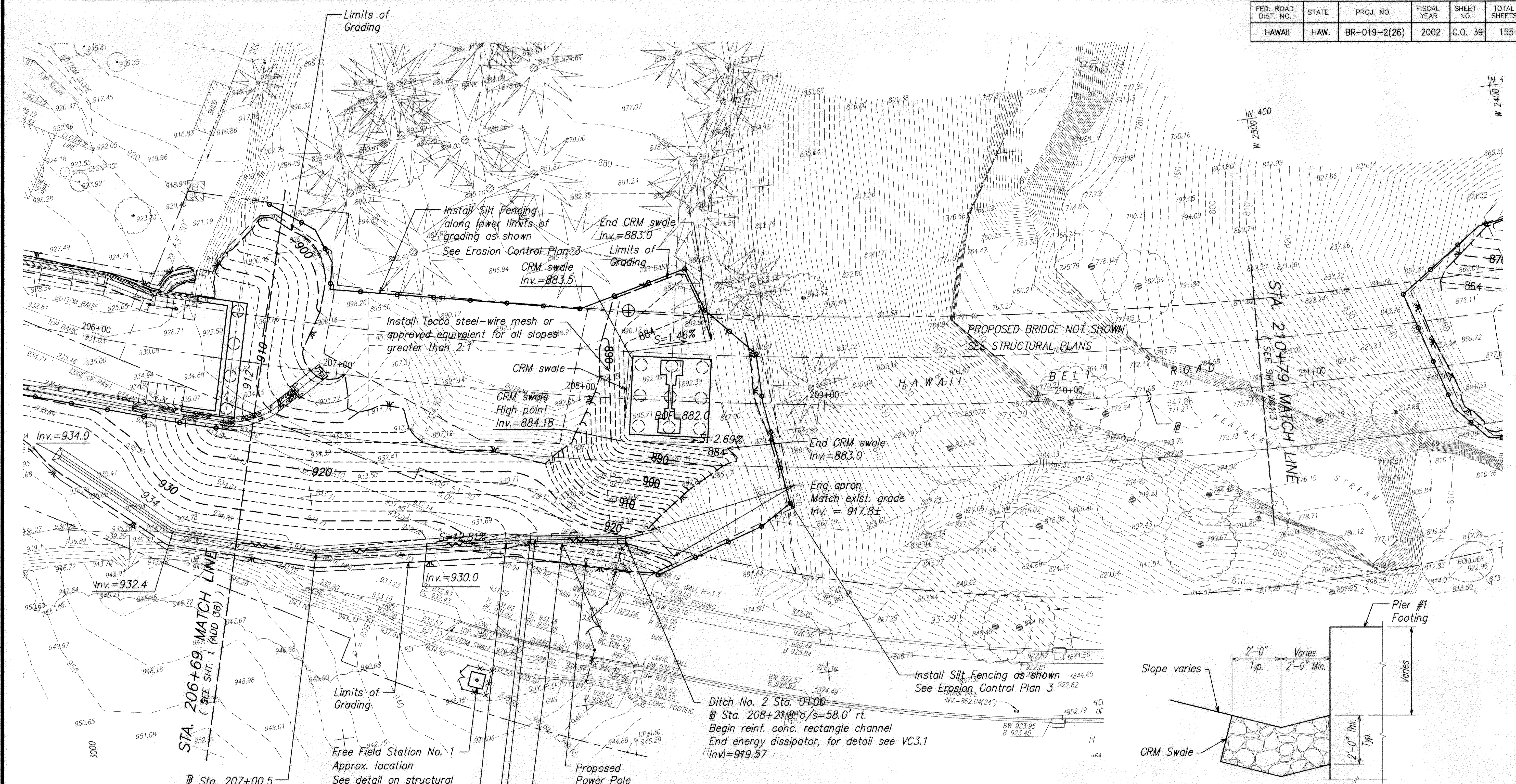


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GRADING & DRAINAGE PLAN 2
HAWAII BELT ROAD
KEALAKAHA STREAM BRIDGE REPLACEMENT
PROJECT NO. BR-019-2 (26)
SCALE: AS NOTED DATE: NOVEMBER 2001
SHEET No. 2 OF 6 SHEETS

"AS-BUILT"

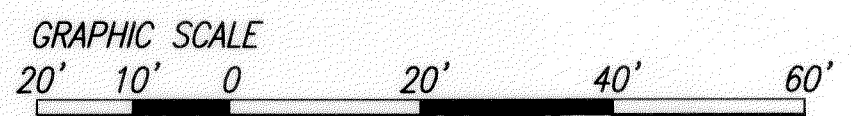
C.O. 38

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(26)	2002	C.O. 39	155



CRM SWALE SECTION AT PIER #1
SCALE: 1/2" = 1'-0"

GRADING & DRAINAGE PLAN 3
SCALE: 1" = 20'



DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NOTED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING & DRAINAGE PLAN 3

HAWAII BELT ROAD
KEALAKAHA STREAM BRIDGE REPLACEMENT
PROJECT NO. BR-019-2 (26)

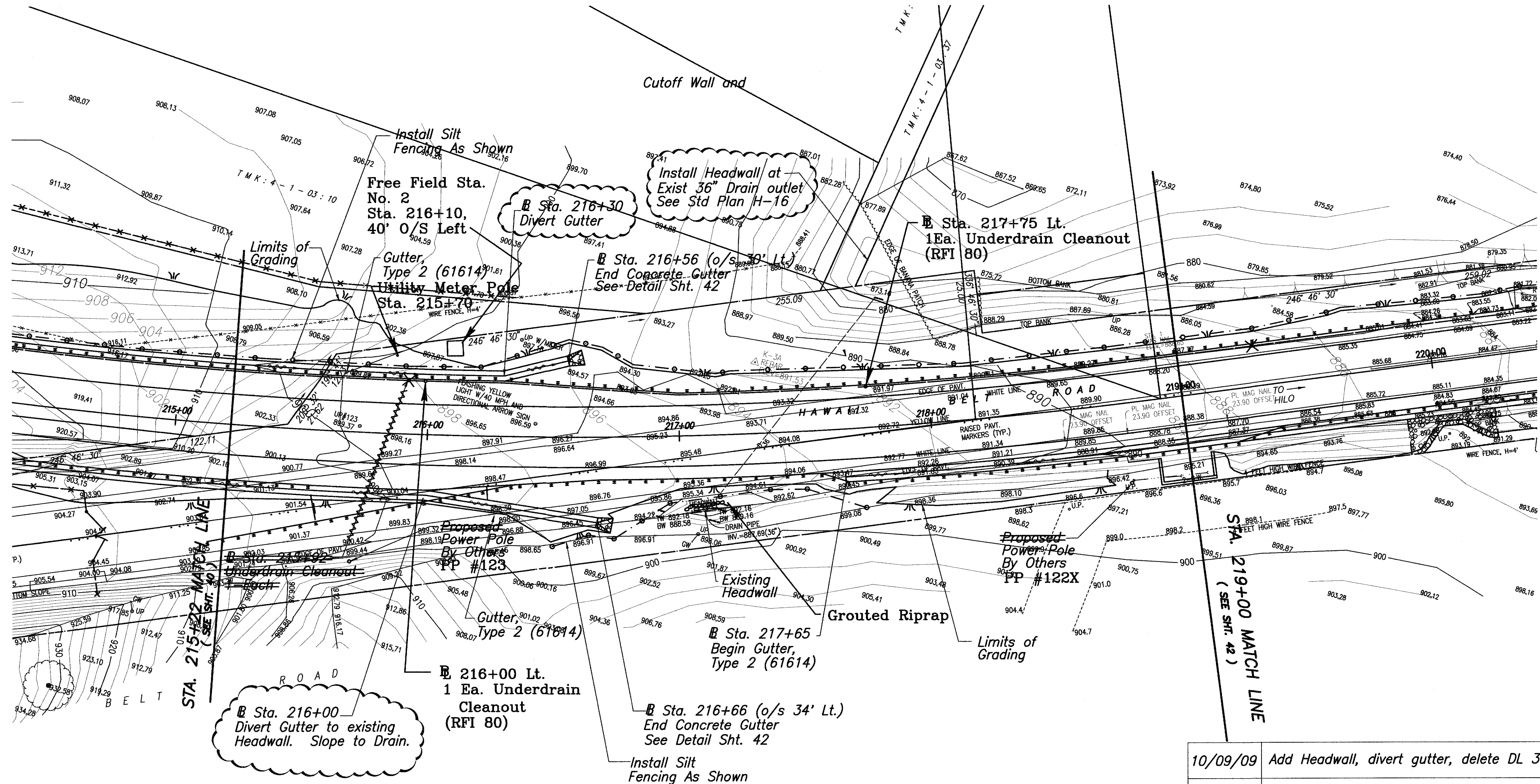
SCALE: AS NOTED
DATE: DECEMBER 2007
SHEET No.VC1.2 OF 6 SHEETS

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

W. Y. SHIMOKAWA
LICENSED PROFESSIONAL ENGINEER
NO. 3906-C
HAWAII, U.S.A.

KSF, INC.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(26)	2002	C.O.41	155



LEGEND FOR AS-BUILT POSTING

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- X "X" for as-built deletion
- Roadway Text for as-built posting



GRADING & DRAINAGE PLAN 5

SCALE: 1"=20'



10/09/09	Add Headwall, divert gutter, delete DL 3
11/20/08	Divert gutter, revised grading rt. side

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING & DRAINAGE PLAN 5

HAWAII BELT ROAD

KEALAKAHA STREAM BRIDGE REPLACEMENT

PROJECT NO. BR-019-2 (26)

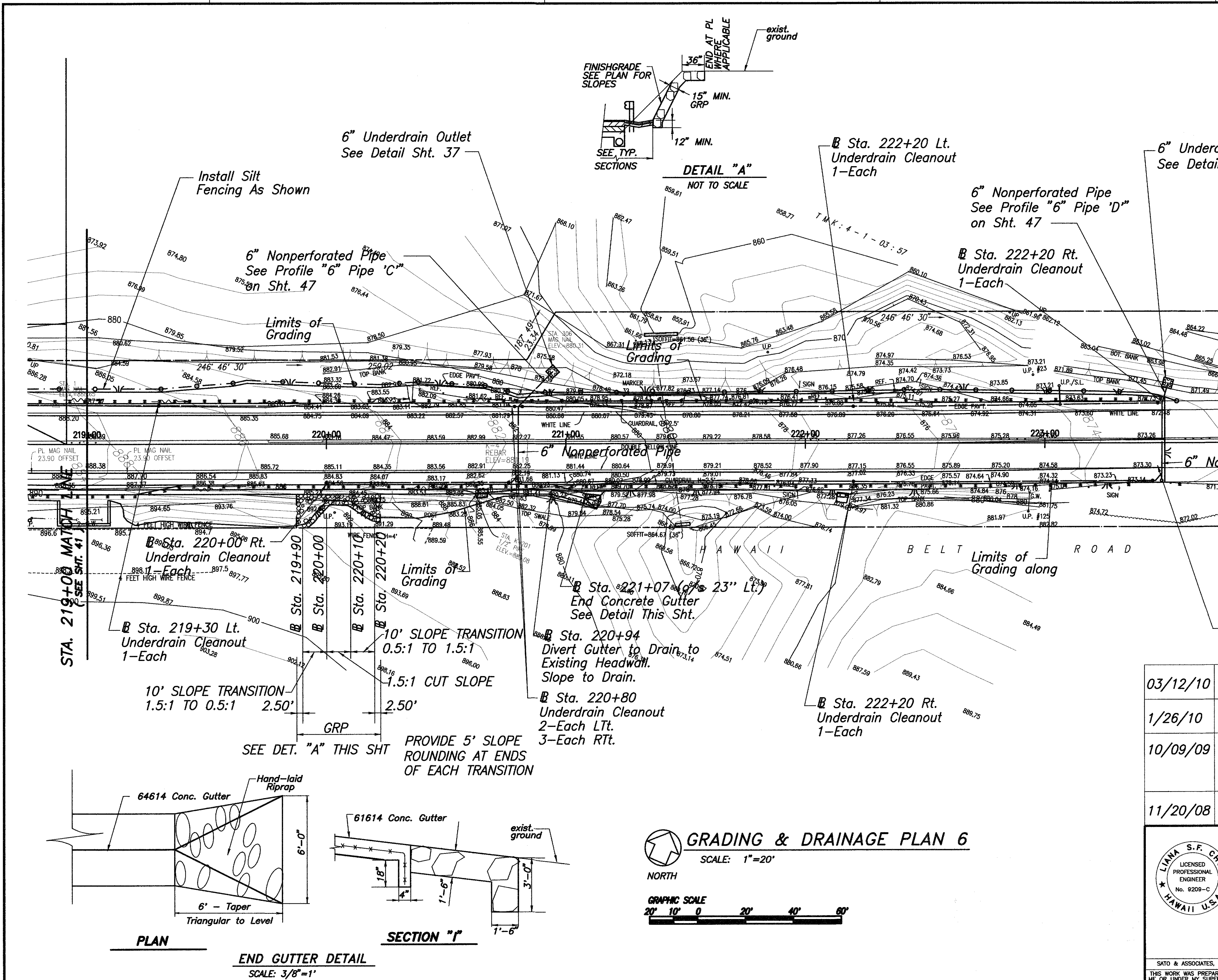
SCALE: 1"=20' DATE: NOVEMBER 2001

SHEET No. 5 OF 6 SHEETS

"AS-BUILT"

C.O. 41

PL
FILE
exist.
ground



Grading & Drainage Plan 6

SCALE: 1"=20'

NORTH

GRAPHIC SCALE
20' 10' 0 20' 40' 80'

PLAN

END GUTTER DETAIL
SCALE: 3/8"=1'

SECTION "I"

Detailed description of the plan: The main plan shows a road alignment from STA. 219+00 MATCH to STA. 223+00. It includes numerous elevation points, slope indicators (e.g., 10' SLOPE TRANSITION 1.5:1 TO 0.5:1), and labels for various features like 'Limits of Grading', 'Underdrain Cleanout', and 'Hand-laid Riprap'. A detail titled 'DETAIL "A"' shows a cross-section of a ditch or drainage area with dimensions like 15" MIN. GRP and 12" MIN. Another detail, 'SECTION "I"', shows a cross-section of a gutter with dimensions like 18", 1'-6", and 3'-0". A date stamp on the right side lists dates: 03/12/10, 1/26/10, 10/09/09, and 11/20/08. At the bottom right, there is a professional seal for Liana S.F. Chao, Licensed Professional Engineer No. 9209-C, Hawaii U.S.A.

Grading & Drainage Plan 6
SCALE: 1"=20'

GRAPHIC SCALE
20' 10' 0 20' 40' 60'

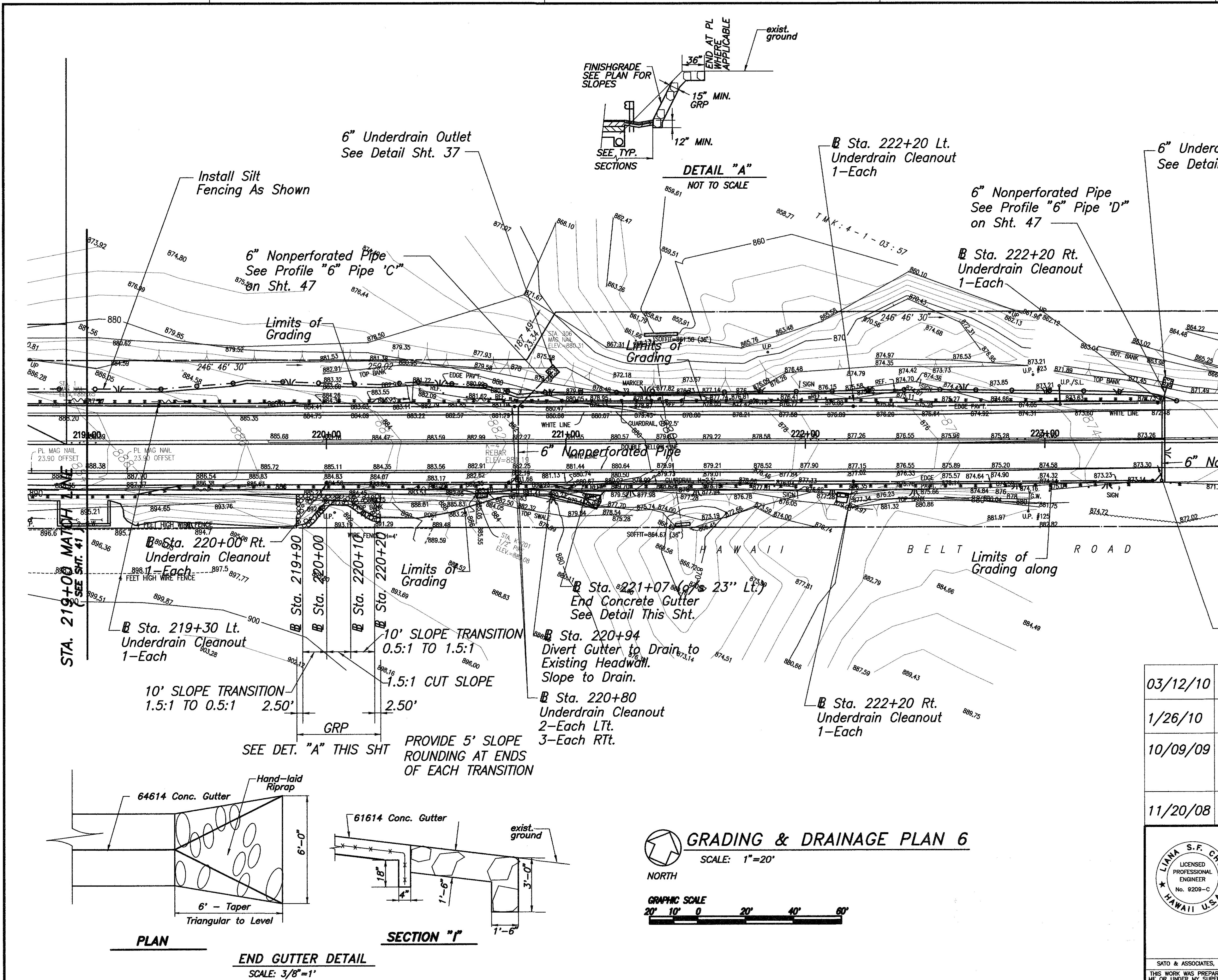
PLAN
END GUTTER DETAIL
SCALE: 3/8"=1'

SECTION "I"

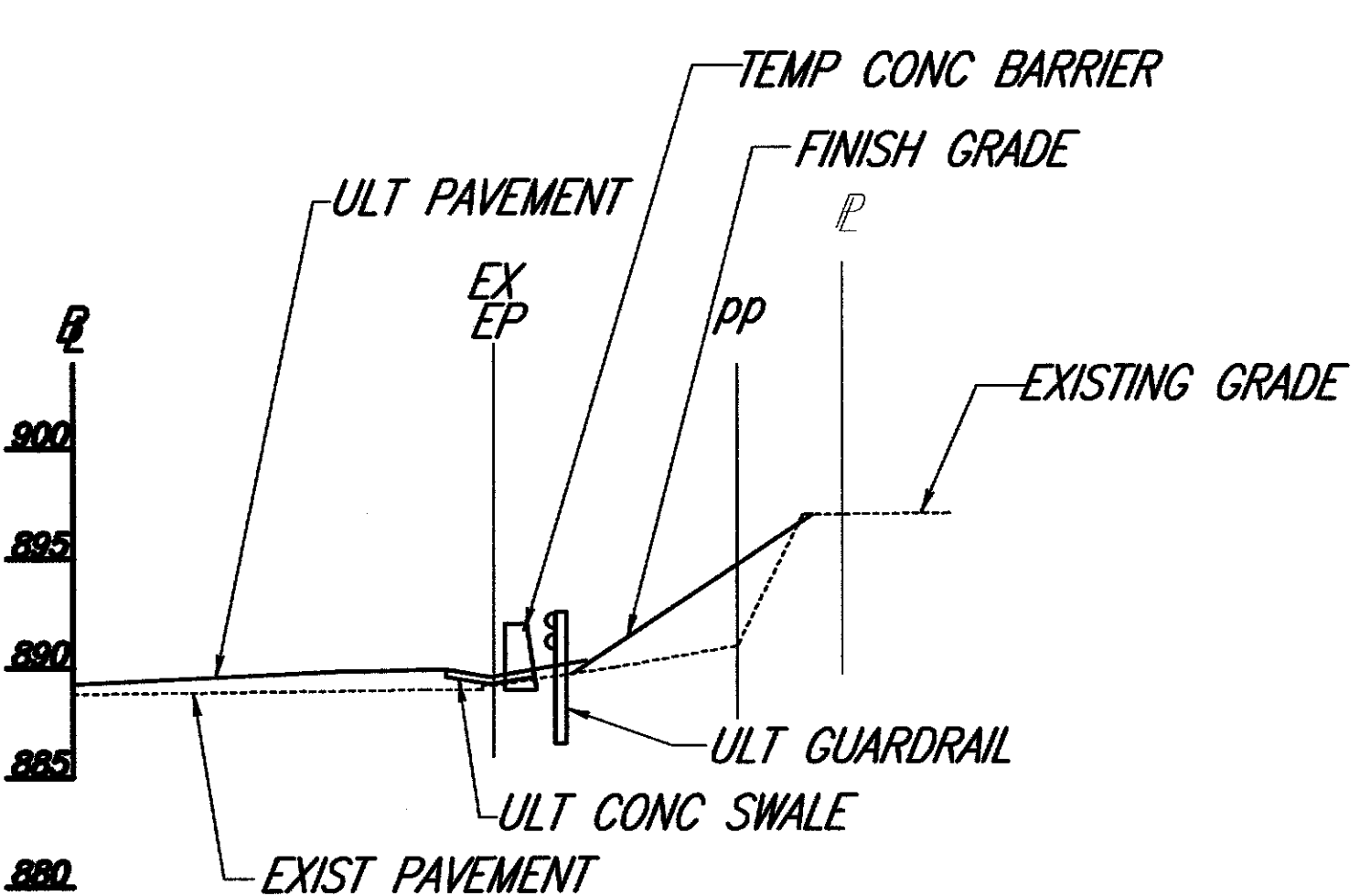
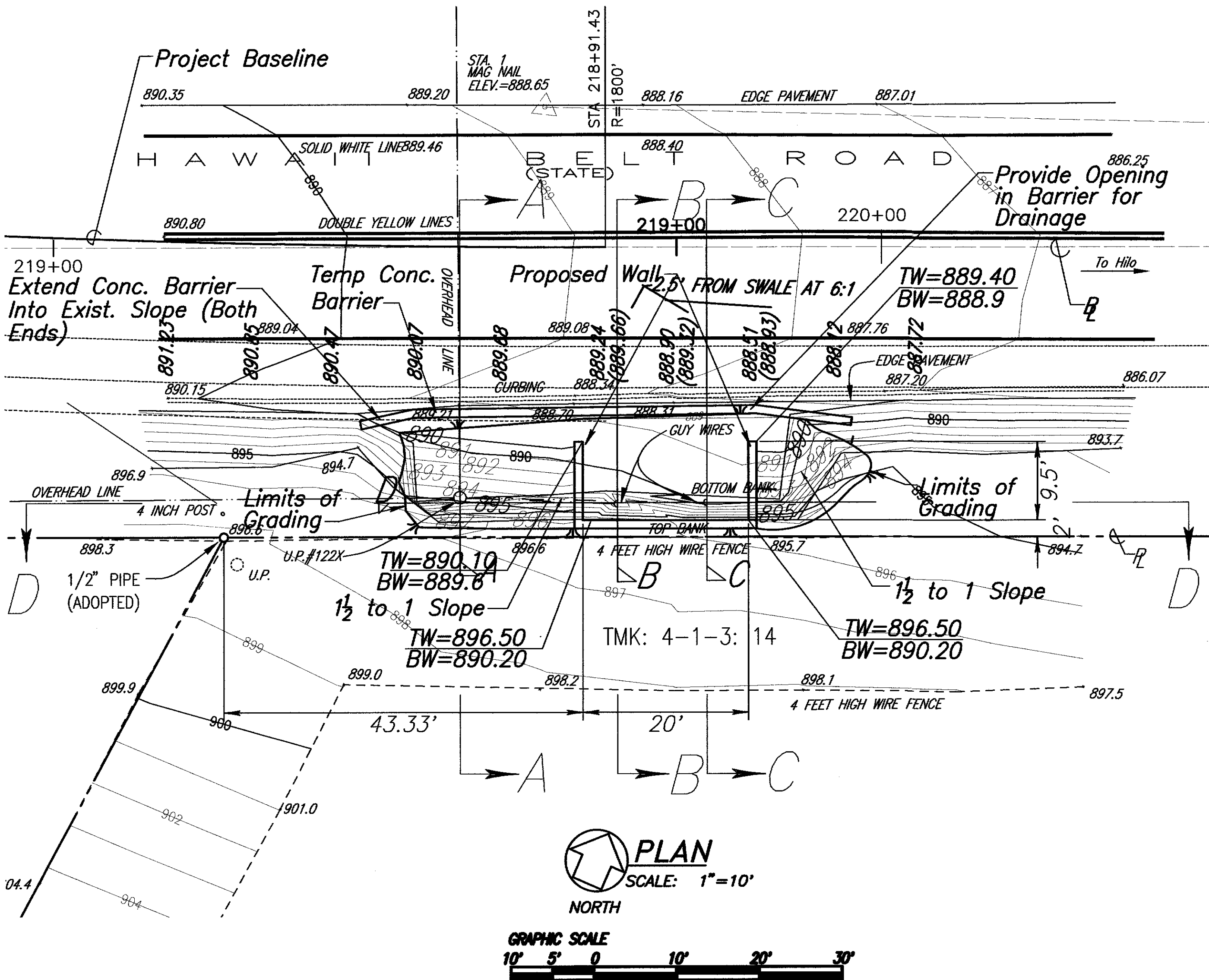
03/12/10
1/26/10
10/09/09
11/20/08

LIAMA S.F. CHEN
LICENSED PROFESSIONAL ENGINEER
No. 9209-C
HAWAII, U.S.A.

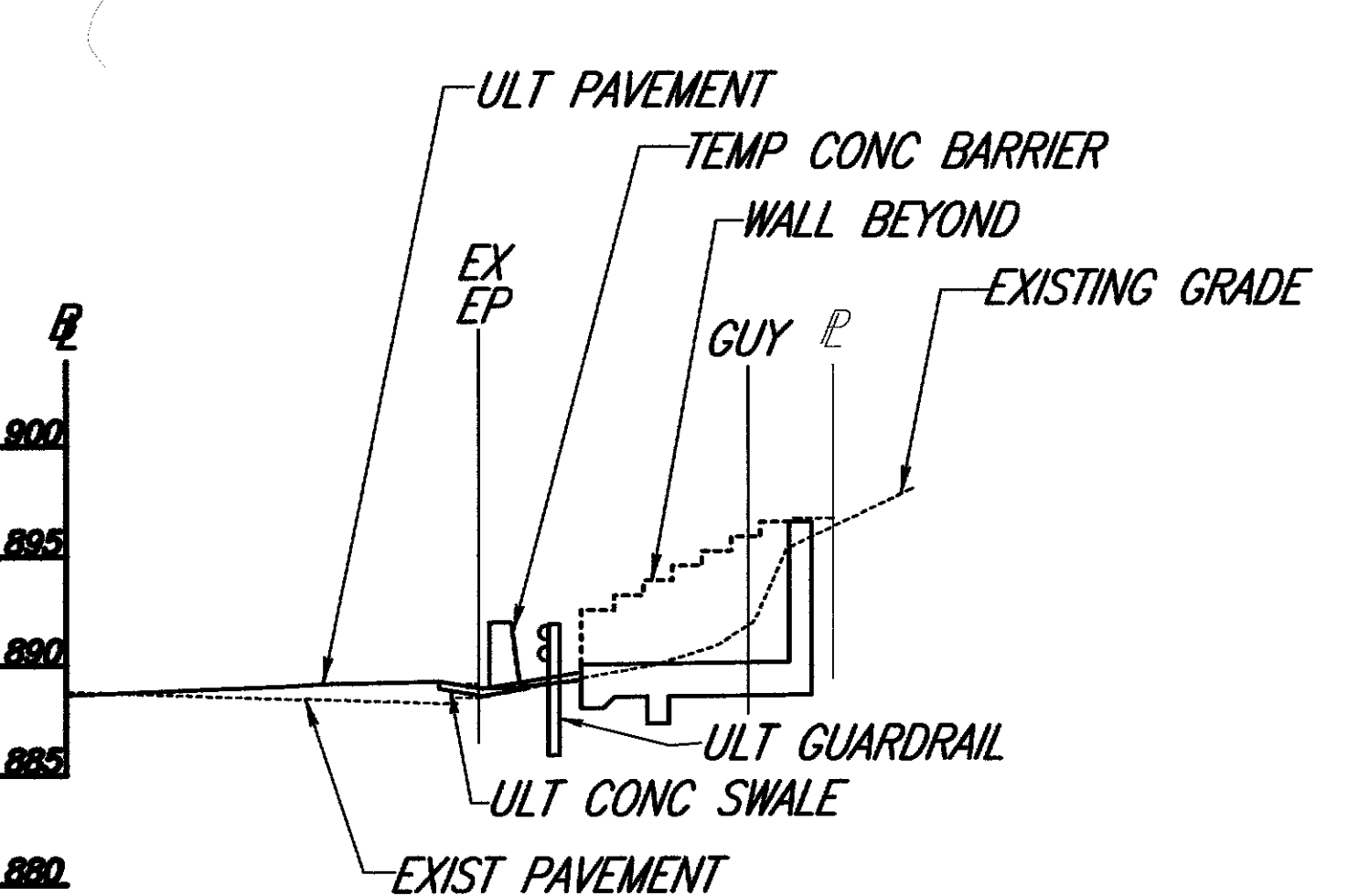
SATO & ASSOCIATES, INC.
THIS WORK WAS PREPARED BY OR UNDER MY SUPERVISION

[illegible][illegible]

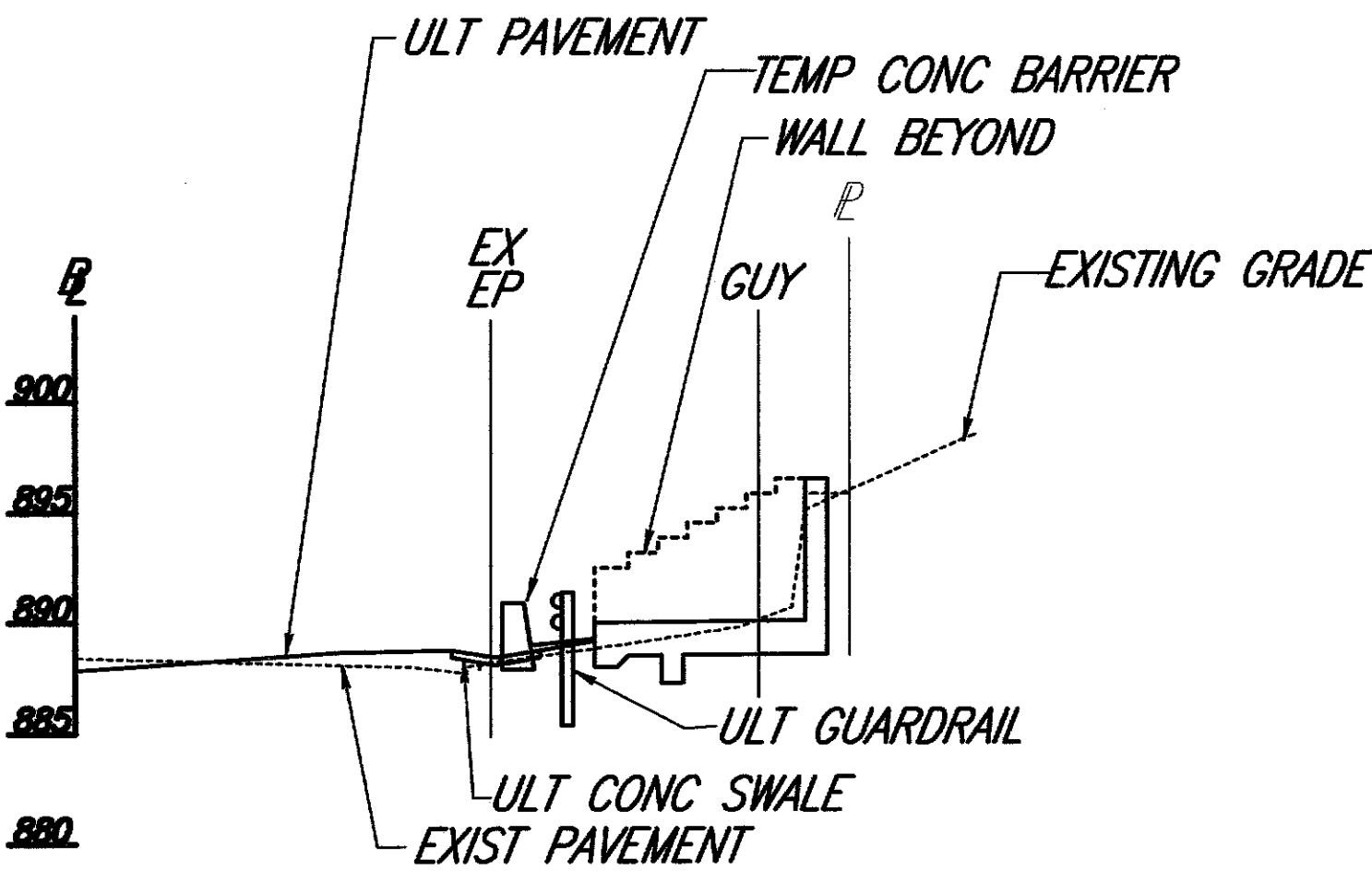
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(26)	2002	C.O. 42 S-1	155



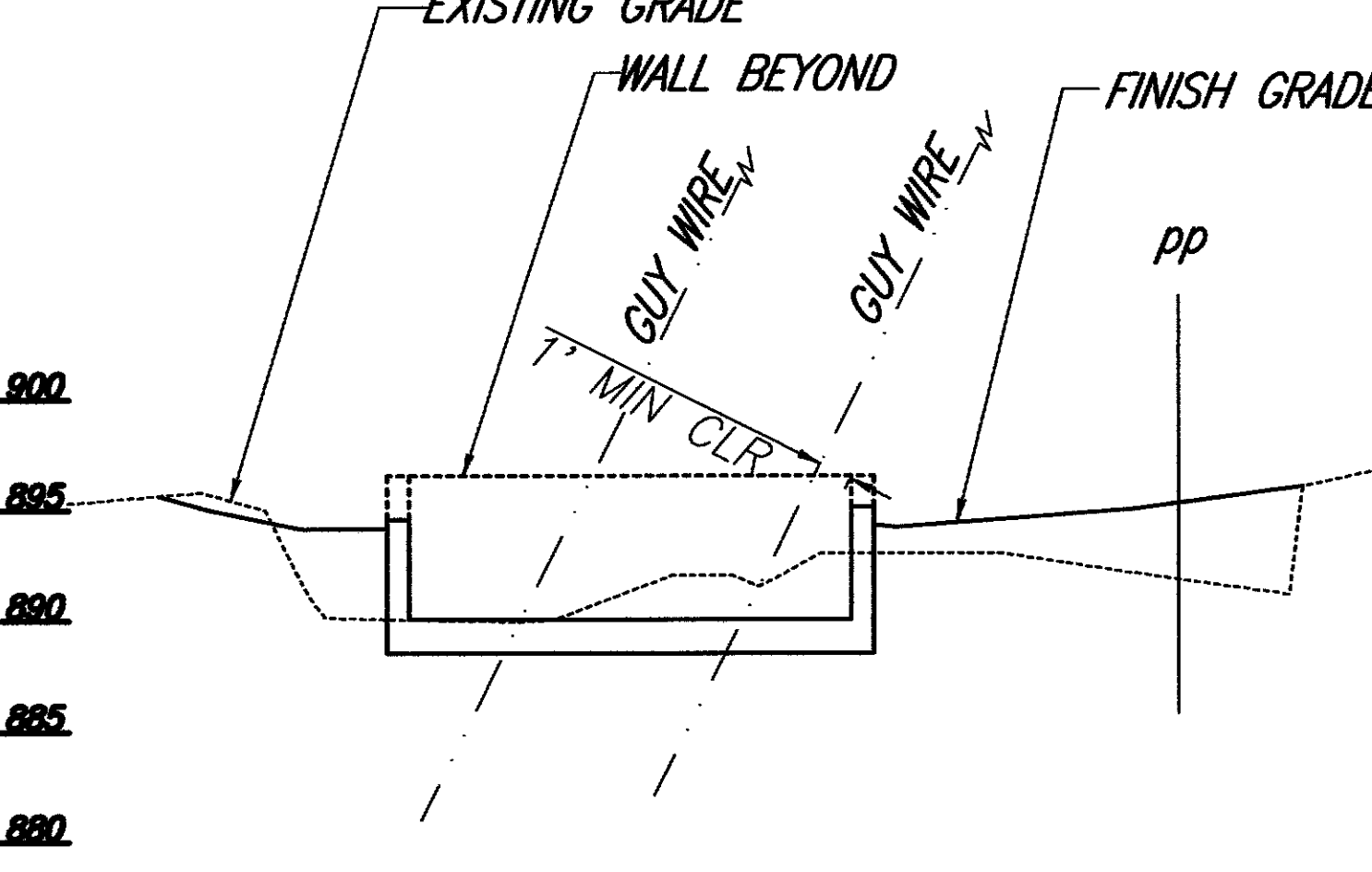
SECTION A-A
SCALE: 1"=8'



SECTION B-B
SCALE: 1"=8'



SECTION C-C
SCALE: 1"=8'



SECTION D-D
SCALE: 1"=8'

- NOTES:
1. The Contractor shall notify HELCO (Daryl Iga 896-8203 or Roger Keller 969-0203) to arrange for inspectional services 3 to 5 days prior to commencement of construction work.
 2. In the event the utility pole anchor(s) exhibit(s) any slippage, the Contractor shall immediately suspend work. HELCO shall determine if additional temporary anchor(s) or other supports will be required at the expense of the State.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GRADING PLAN
UTILITY POLE 122X
HAWAII BELT ROAD

KEALAKAHA STREAM BRIDGE REPLACEMENT
PROJECT NO. BR-019-2 (26)

SCALE: AS NOTED DATE: OCTOBER 2008

SHEET No. 6.1 OF 6 SHEETS

"AS-BUILT"

C.O. 42 S-1