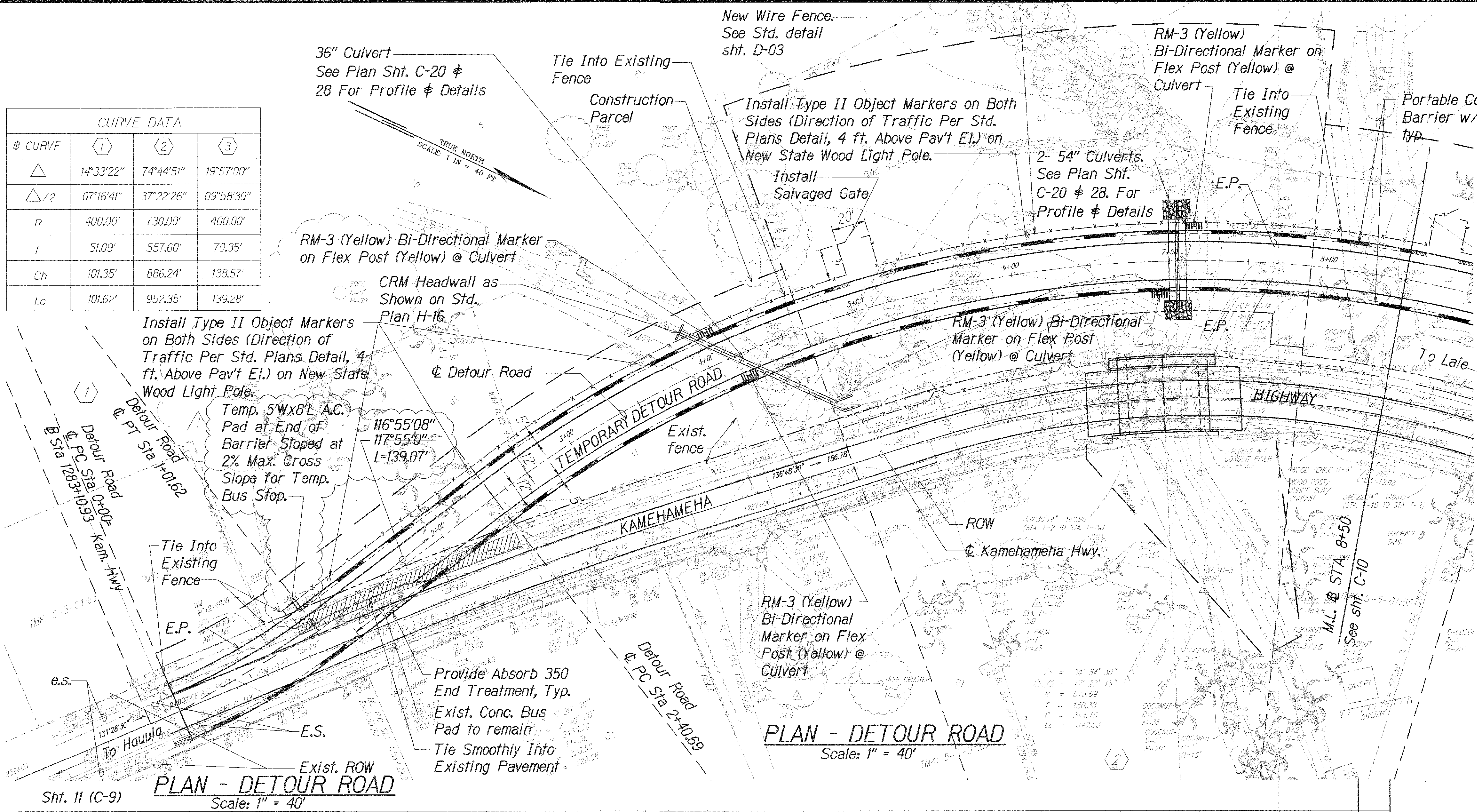
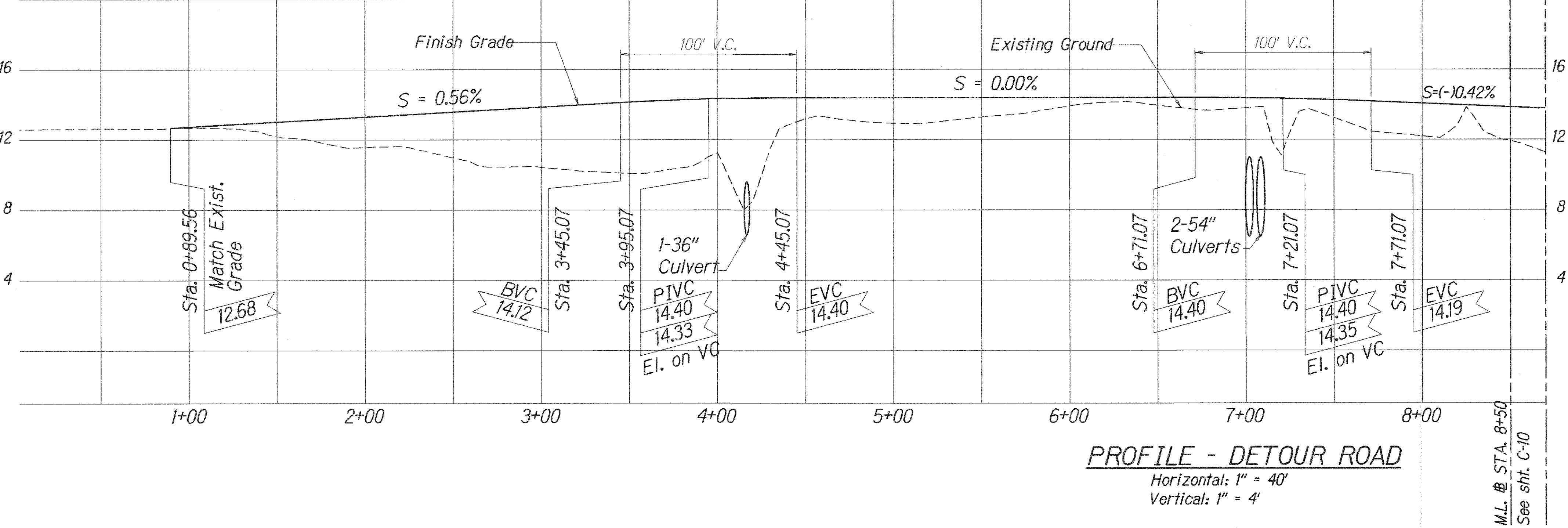


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	BR-083-1(50)	2005	11	81



- Notes:
- NCHRP 350 approved end treatments shall be provided at all exposed concrete barrier edges, including the beginning and end of detour road, and driveway openings.
 - Driveway access shall be provided during all phases of construction work to all driveways. Driveways that will be newly paved shall be constructed one-half at a time to maintain access if possible if no other access route is available. Care shall be taken so as to not damage any existing mailboxes, walls, fences, water meters, etc. All work related to the driveways shall be coordinated with the property owner and the Engineer prior to commencement.
 - Removal of existing pavement striping and markers will not be paid for separately. The Contractor will consider work as included in the price of the various contract items.
 - The Contractor shall maintain the Detour Road at no additional cost to the State.
 - Culvert material may be CSP, Aluminium Spiral Rib, Concrete or HDPE.
 - As noted on the plan, the State owned wood light poles shall have a Type II object markers installed on both sides, facing the direction of traffic and 4 feet in height above the adjacent road elevation (per Std. Plans). For all other new poles, the Type II object markers will be installed by the Utility Companies. This will be the same case for the Kamehameha Highway (See Shts. C-11). Refer to sheets E-7 to E-12 for Electrical Plan sheets.



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

CHAD M. McDONALD
LICENSED PROFESSIONAL ENGINEER
No. 9793-C
HAWAII, U.S.A.

This work was prepared by me or under my supervision

Chad M. McDonald
4/30/2014
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DETOUR ROAD PLAN
AND PROFILE-1**

KAMEHAMEHA HIGHWAY

REPLACEMENT OF KOKOLOLO STREAM BRIDGE

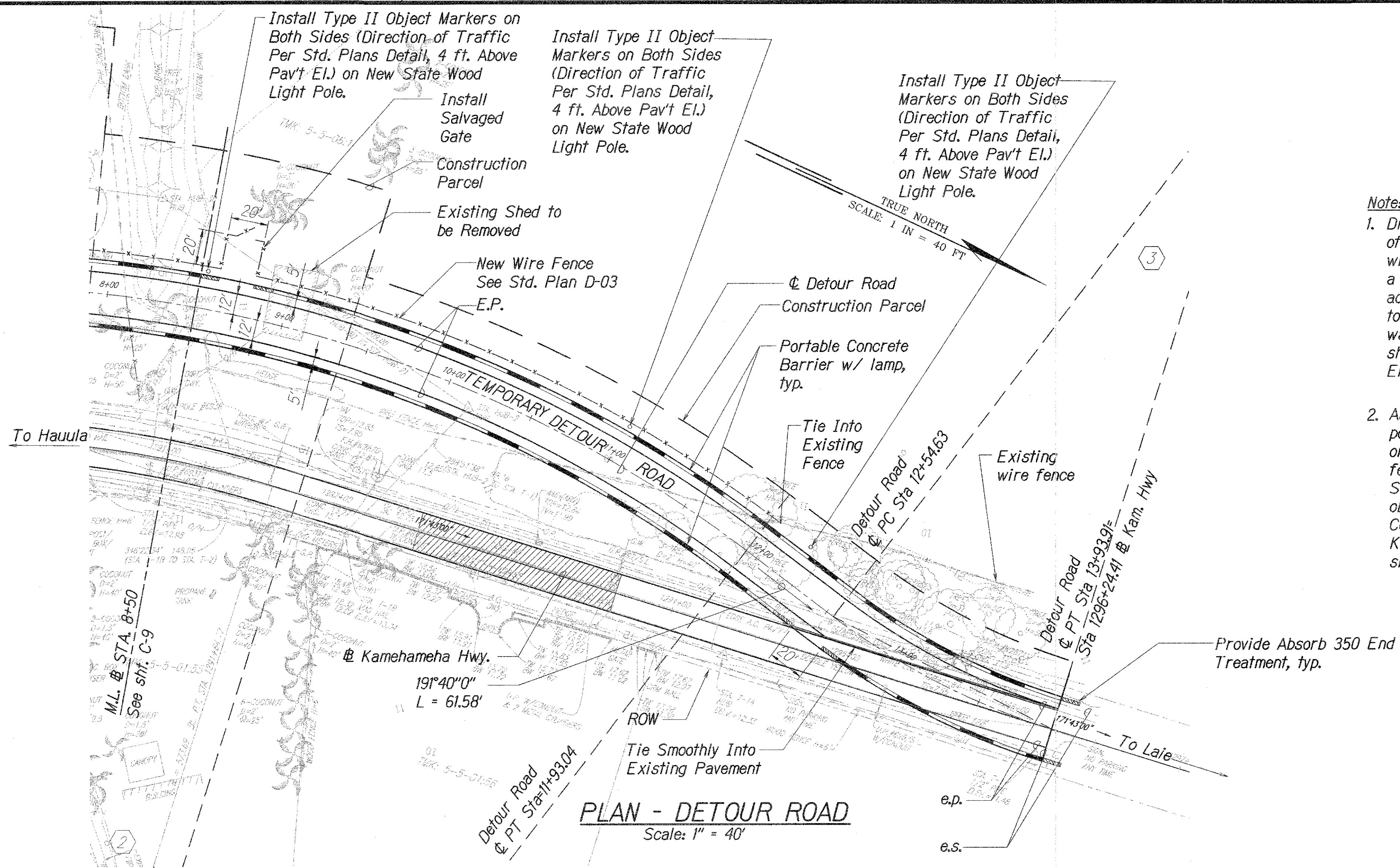
Federal Aid Project No. BR-083-1(50)

Scale: As Noted Date: August 2004

SHEET No. **C-9** OF **51** SHEETS

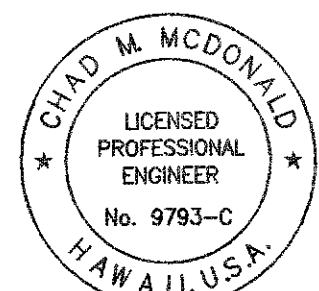
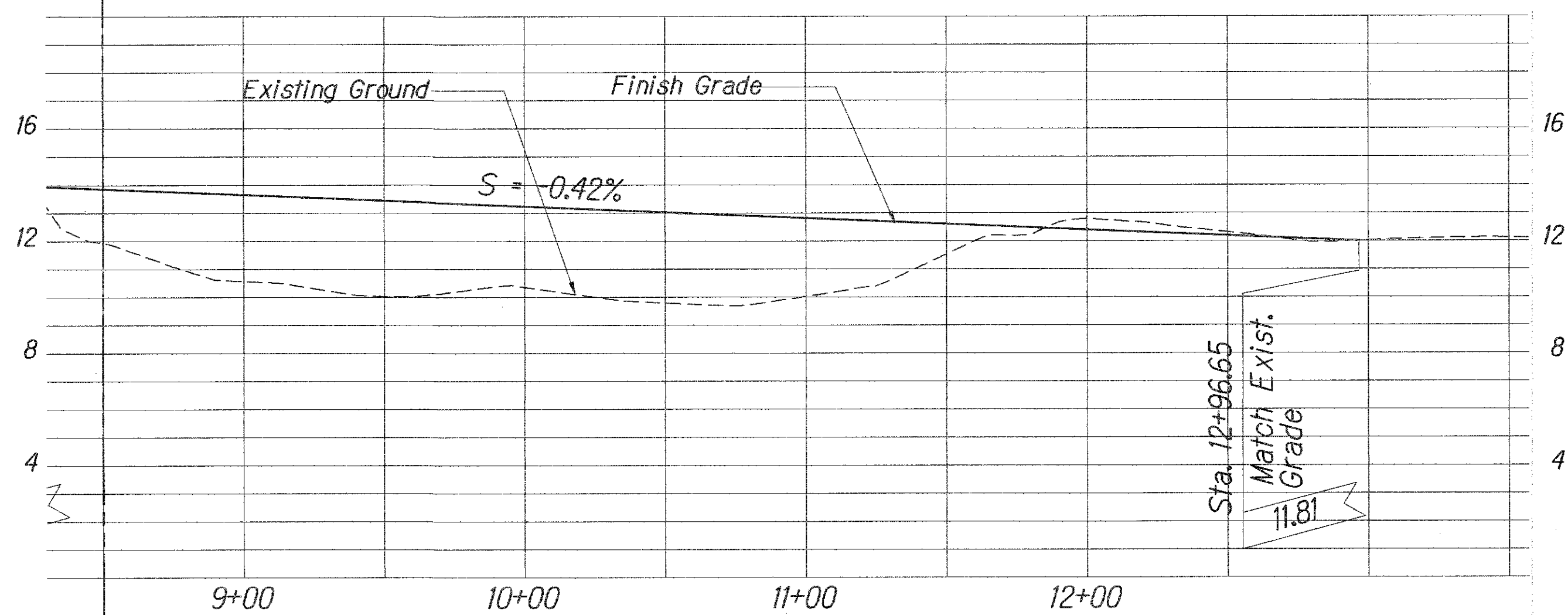
CURVE DATA			
# CURVE	(1)	(2)	(3)
△	14°33'22"	74°44'51"	19°57'00"
△/2	07°16'41"	37°22'26"	09°58'30"
R	400.00'	730.00'	400.00'
T	51.09'	557.60'	70.35'
Ch	101.35'	886.24'	138.57'
Lc	101.62'	952.35'	139.28'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	BR-083-1(50)	2005	12	81



Note:

1. Driveway access shall be provided during all phases of construction work to all driveways. Driveways that will be newly paved shall be constructed one-half at a time to maintain access if possible if no other access route is available. Care shall be taken so as to not damage any existing mailboxes, walls, fences, water meters, etc. All work related to the driveways shall be coordinated with the property owner and the Engineer prior to commencement.
2. As noted on the plan, the State owned wood light poles shall have a Type II object markers installed on both sides, facing the direction of traffic and 4 feet in height above the adjacent road elevation (per Std. Plans). For all other new poles, the Type II object markers will be installed by the Utility Companies. This will be the same case for the Kamehameha Highway (See Shts. C-II). Refer to sheets E-7 to E-12 for Electrical Plan sheets.



This work was prepared by me or under my supervision

Chad M. McDonald
4/30/2014
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DETOUR ROAD PLAN
AND PROFILE-2**

KAMEHAMEHA HIGHWAY
REPLACEMENT OF KOKOLOLIO STREAM BRIDGE
Federal Aid Project No. BR-083-1(50)

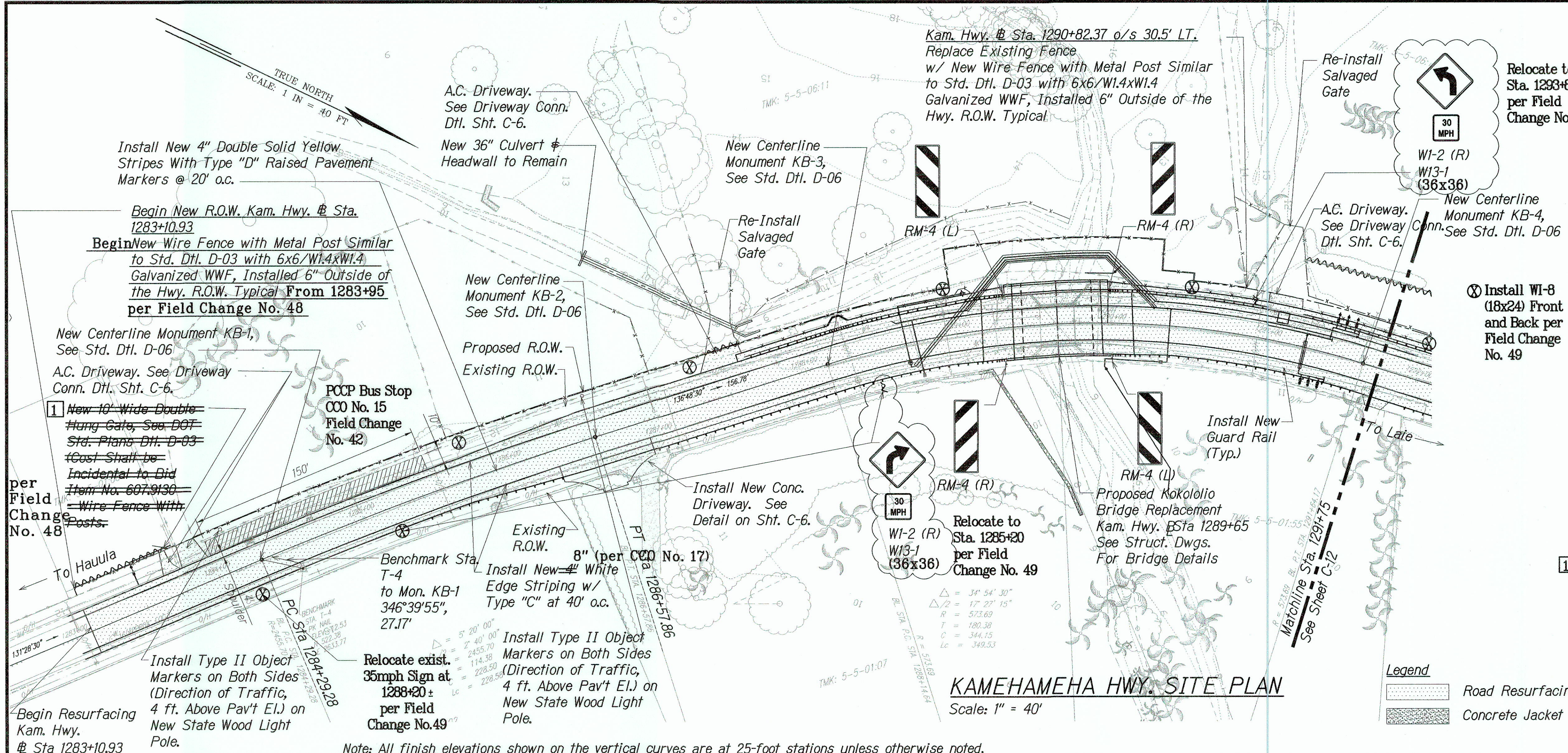
Scale: As Noted Date: August 2004

SHEET No. C-10 OF 51 SHEETS

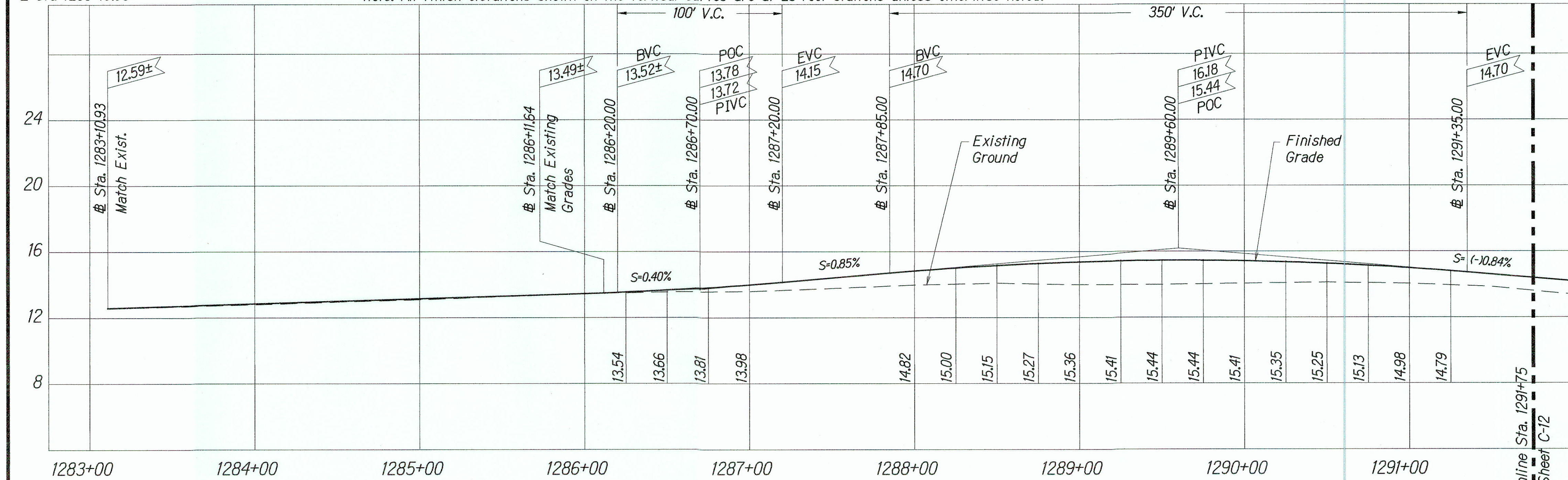
SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	BR-083-1(50)	2005	ADD.13	81

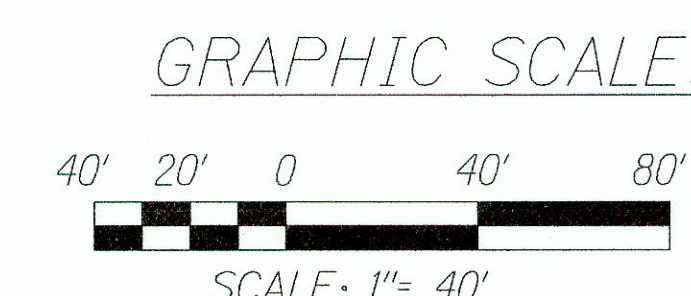
LEGEND FOR AS-BUILT POSTING	
	Squiggly line for as-built deletion
	Double line for as-built deletion
	Roadway Text for as-built posting



- Note:**
1. Driveway access shall be provided during all phases of construction work to all driveways. Driveways that will be newly paved shall be constructed one-half at a time to maintain access if possible if no other access route is available. Care shall be taken so as to not damage any existing mailboxes, walls, fences, water meters, etc. All work related to the driveways shall be coordinated with the property owner and the Engineer prior to commencement.
 2. As noted on the plan, the State owned wood light poles shall have a Type II object markers installed on both sides, facing the direction of traffic and 4 feet in height above the adjacent road elevation (per Std. Plans). For all other new poles, the Type II object markers will be installed by the Utility Companies. This will be the same case for the temporary detour road (See Shts. C-9 & C-10). Refer to sheets E-7 to E-12 for Electrical Plan sheets.
 3. The Contractor shall provide new post if needed to where the new fence connects to the existing fence and the cost shall be incidental to Bid Item No. 607.9130 - Wire Fence With Posts. This is typical throughout the project limits.



Bridge Deck Elevation Raised by 1/2" per Field Change No. 28



3/11/05	1 Note Added
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION KAMEHAMEHA HWY. SITE PLAN - 1 KAMEHAMEHA HIGHWAY REPLACEMENT OF KOKOLOLO STREAM BRIDGE Federal Aid Project No. BR-083-1(50) Scale: As Noted Date: August 2004 SHEET No. C-11 OF 51 SHEETS	

CHAD M. McDONALD
 LICENSED PROFESSIONAL ENGINEER
 No. 9793-C
 HAWAII, U.S.A.
 This work was prepared by me or under my supervision
 Chad M. McDonald
 MITSUNAGA & ASSOCIATES, INC. EXP. DATE 4/30/2014
 NOTE: Contractor to check and verify dimensions at job before proceeding with work.

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

PROFILE - KAMEHAMEHA HWY
 Horizontal: 1" = 40'
 Vertical: 1" = 4'

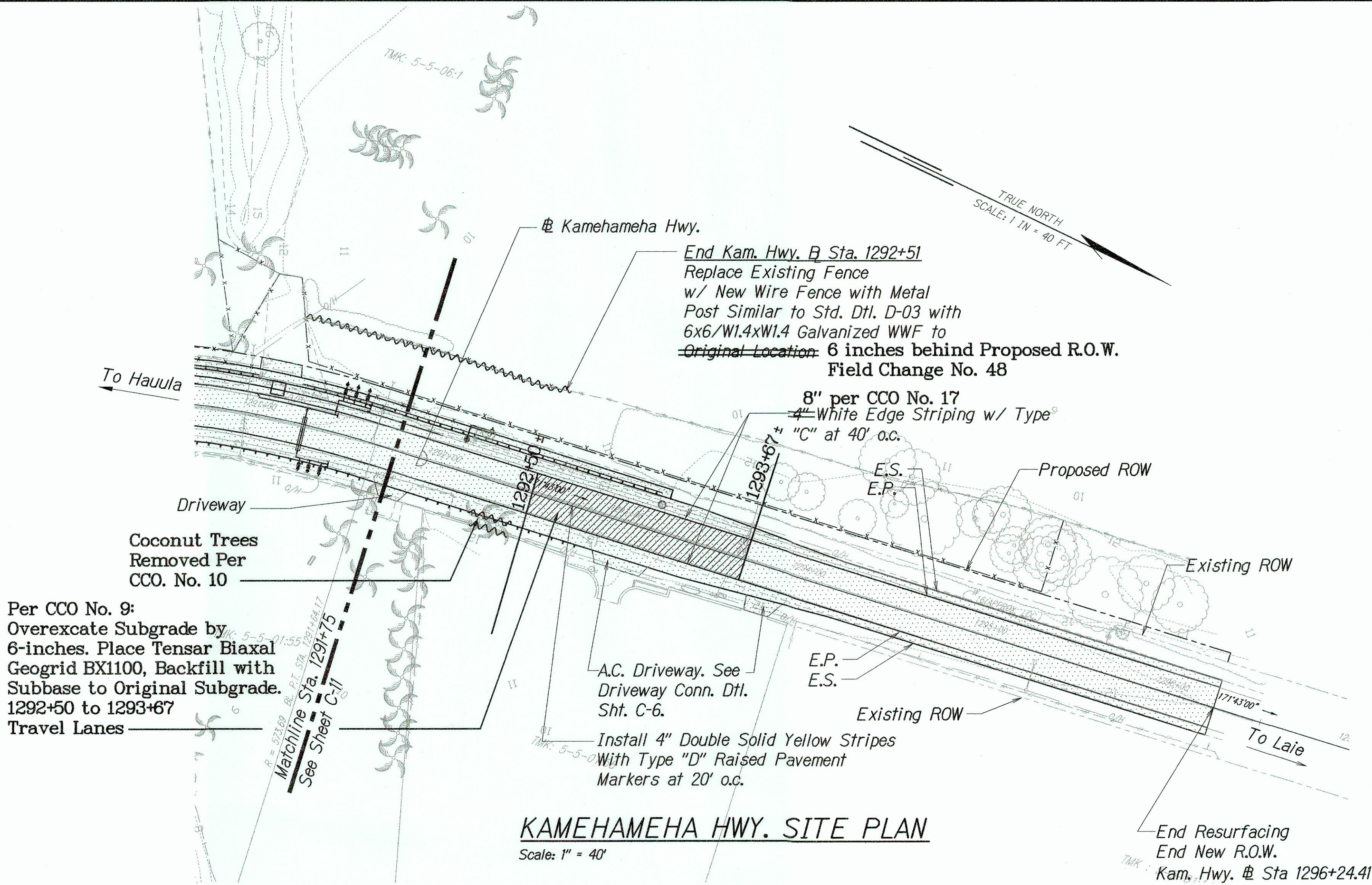
"AS-BUILT"

ADD.13

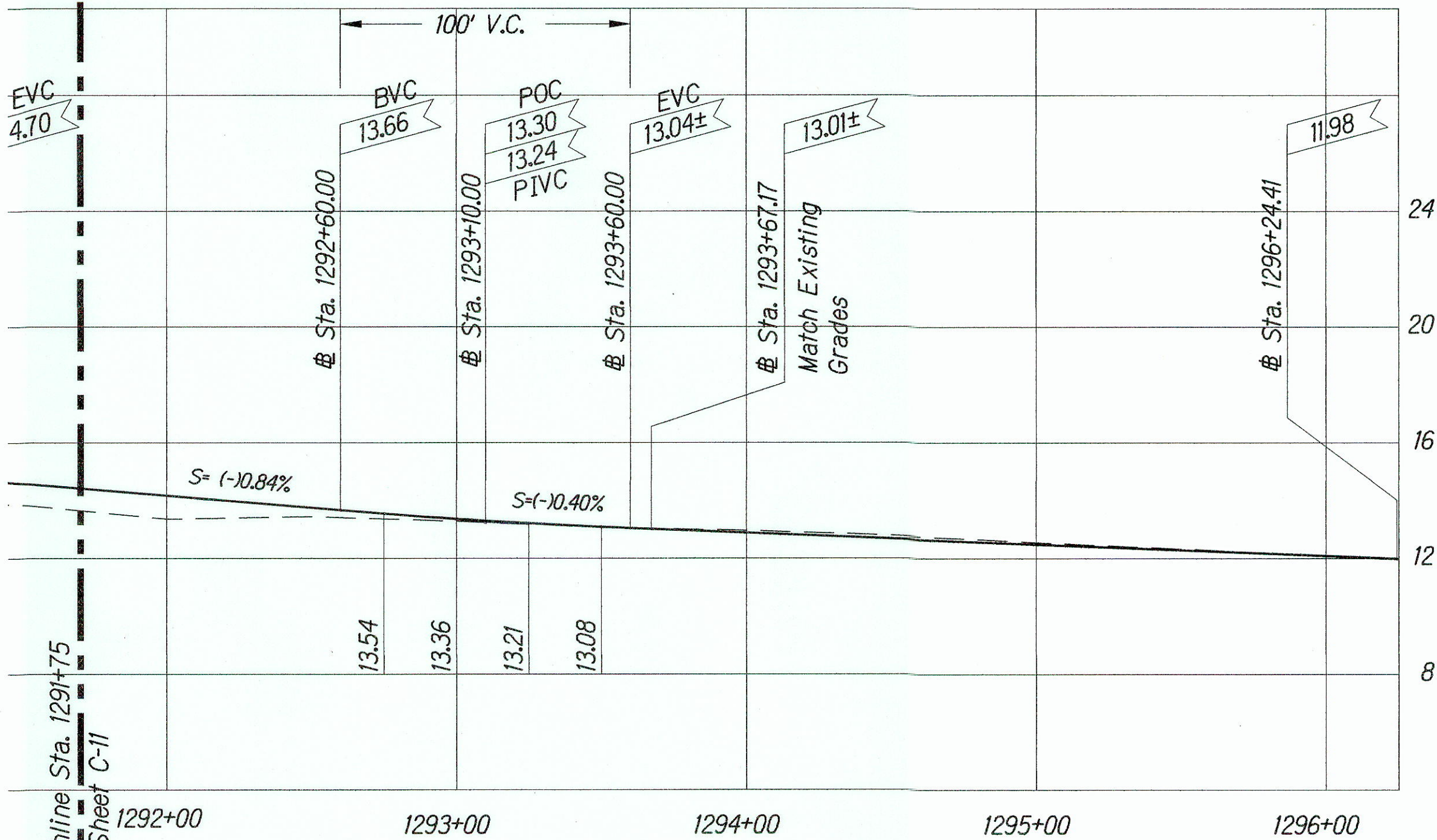
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	BR-083-1(50)	2005	ADD.4	81

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

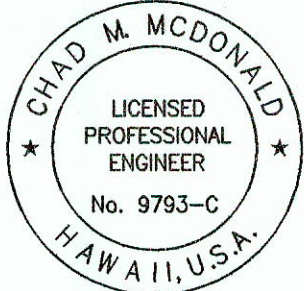
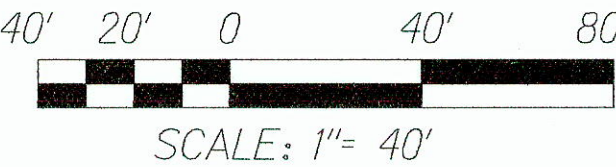
Note:
 Driveway access shall be provided during all phases of construction work to all driveways. Driveways that will be newly paved shall be constructed one-half at a time to maintain access if possible if no other access route is available. Care shall be taken so as to not damage any existing mailboxes, walls, fences, water meters, etc. All work related to the driveways shall be coordinated with the property owner and the Engineer prior to commencement.



Per CCO No. 9:
 Overexcavate Subgrade by 6-inches. Place Tensar Biaxial Geogrid BX1100, Backfill with Subbase to Original Subgrade. 1292+50 to 1293+67 Travel Lanes



GRAPHIC SCALE:



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Chad M. McDonald
 4/30/2014
 MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

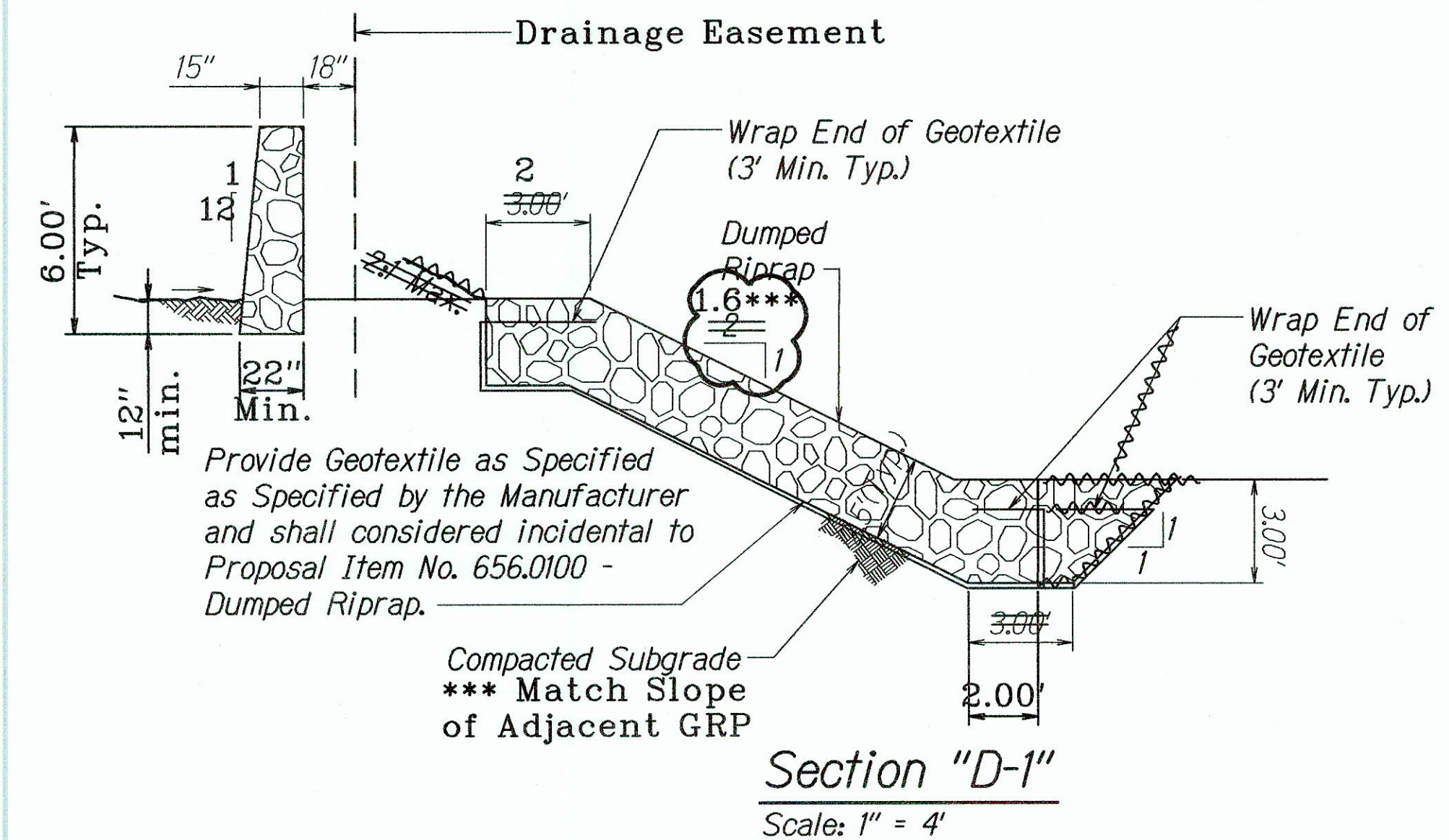
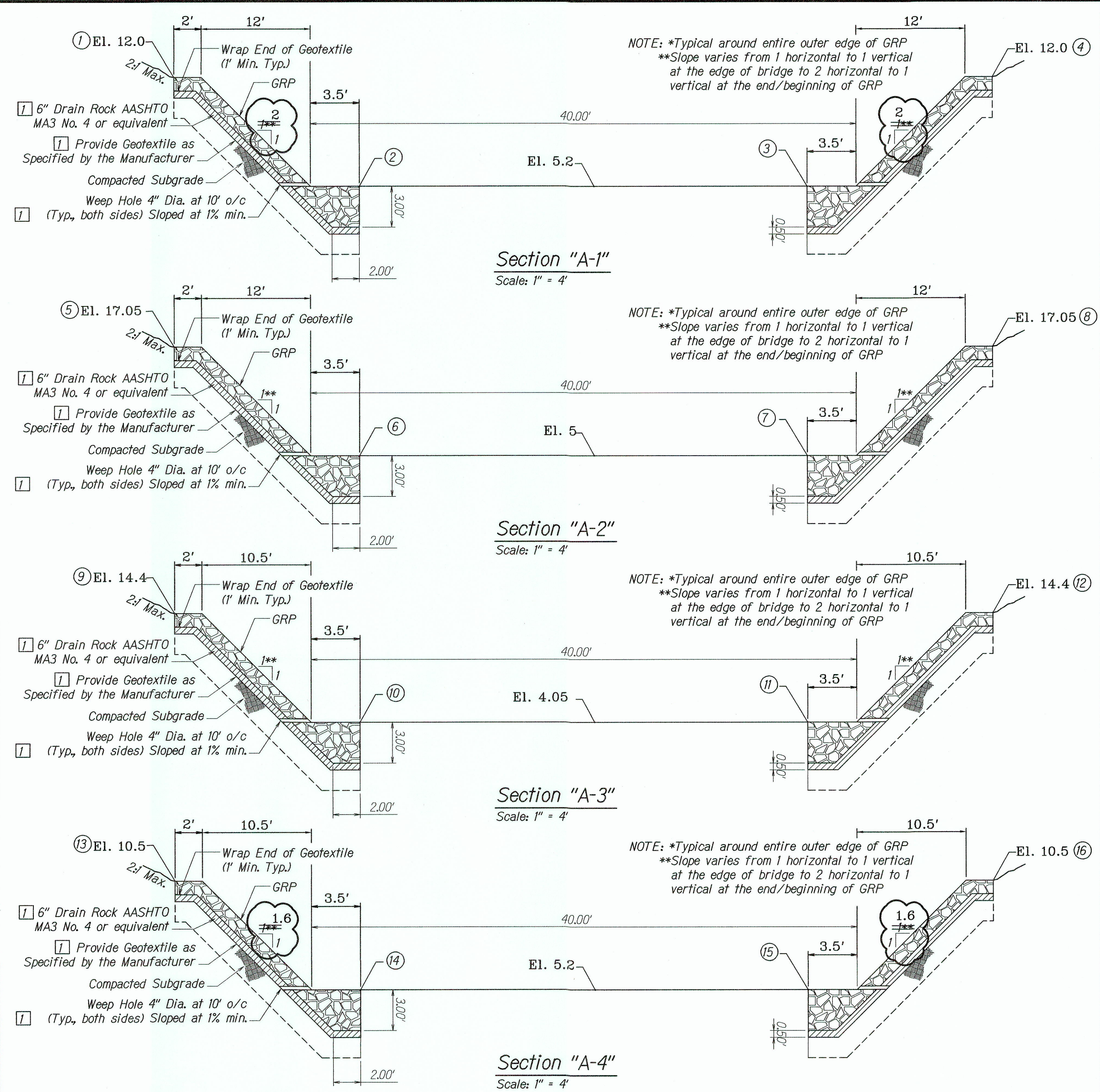
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
KAMEHAMEHA HWY.
SITE PLAN - 2
 KAMEHAMEHA HIGHWAY
 REPLACEMENT OF KOKOLOLO STREAM BRIDGE
 Federal Aid Project No. BR-083-1(50)
 Scale: As Noted Date: August 2004

SHEET No. **C-12** OF **51** SHEETS

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

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	BR-083-1(50)	2005	14A	81



- ① 1289+32.70 o/s 37.50' Lt., El. 12.0
- ② 1289+49.34 o/s 37.50' Lt., El. 5.2
- ③ 1289+80.66 o/s 37.50' Lt., El. 5.2
- ④ 1289+97.35 o/s 37.50' Lt., El. 12.0
- ⑤ 1289+32.70 o/s 27.50' Lt., El. 17.05
- ⑥ 1289+49.34 o/s 27.50' Lt., El. 5.0
- ⑦ 1289+80.66 o/s 27.50' Lt., El. 5.0
- ⑧ 1289+97.35 o/s 27.50' Lt., El. 17.05
- ⑨ 1289+31.38 o/s 21.00' Rt., El. 14.3
- ⑩ 1289+47.96 o/s 21.00' Rt., El. 4.05
- ⑪ 1289+82.05 o/s 21.00' Rt., El. 4.05
- ⑫ 1289+98.62 o/s 21.00' Rt., El. 14.3
- ⑬ 1289+31.38 o/s 35.29' Rt., El. 10.5
- ⑭ 1289+47.96 o/s 35.29' Rt., El. 4.00
- ⑮ 1289+82.05 o/s 35.29' Rt., El. 4.00
- ⑯ 1289+98.62 o/s 35.29' Rt., El. 10.5
- ⑰ 1289+80.54 o/s 110.06' Rt., El. 9.0
- ⑱ 1290+02.00 o/s 100.30' Rt., El. 3.8
- ⑲ 1290+09.05 o/s 96.85' Rt., El. 3.8
- ⑳ 1290+29.29 o/s 86.26' Rt., El. 93.7

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

5/4/07	New Sheet-As Built Revisions
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION KAMEHAMEHA HIGHWAY BRIDGE PLAN-2 KAMEHAMEHA HIGHWAY REPLACEMENT OF KOKOLOLO STREAM BRIDGE Federal Aid Project No. BR-083-1(50) Scale: As Noted Date: August 2004	
SHEET No. C-14A OF 51 SHEETS	

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Chad M. McDonald
 4/30/2014
 MITSUNAGA & ASSOCIATES, INC. EXP. DATE
 NOTE: Contractor to check and verify dimensions at job before proceeding with work.

"AS-BUILT"