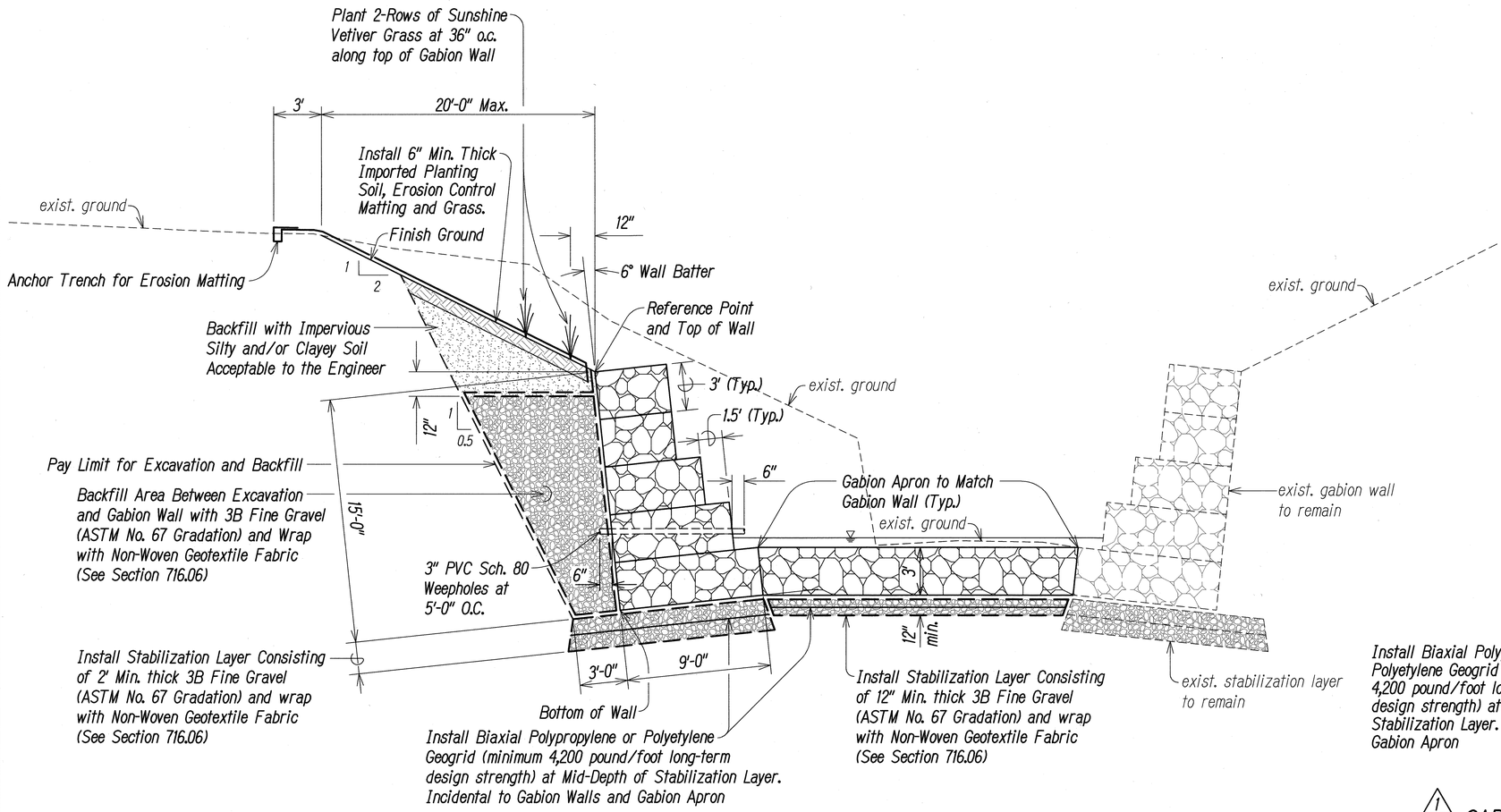
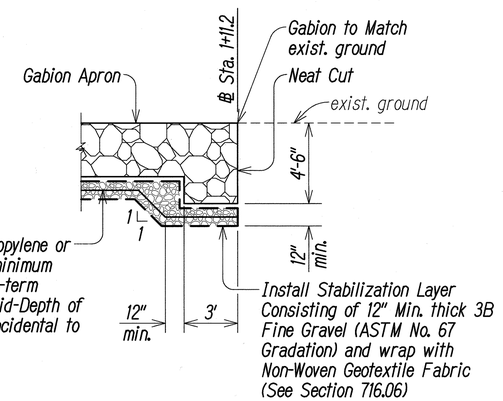
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	ADD. 17	55



⚠1 ~~(Sta. 0+00 to Sta. 0+24)~~

15-Ft. HIGH GABION WALL AND GABION APRON DETAIL (1 C4.1 | C5.1)

SCALE: 1/4" = 1'-0"



⚠1 GABION CUTOFF WALL DETAIL (2 C4.1 | C5.1)

SCALE: 1/4" = 1'-0"

NOTES:

1. The excavation, 2-feet min. thick stabilization layer, backfill, including 3B fine gravel (ASTM No. 67 Gradation), non-woven geotextile fabric, impervious silty and/or clayey soil, 3-inch PVC Schedule 80 weepholes and filter mattress toe protection shall be considered incidental to Item 515.0100 Gabion Walls.
2. The excavation, 12-inches min. thick stabilization layer, including 3B fine gravel (ASTM No. 67 Gradation), and non-woven geotextile fabric shall be considered incidental to Item 515.0200 Gabion Apron.
3. The design, installation, maintenance and removal of the temporary cofferdam will be paid for under Item 515.0300 Temporary Cofferdam for Gabion Walls
4. See special provisions Section 515 - Gabion Walls and Apron for additional requirements.

RUSSELL M. ARAKAKI LICENSED PROFESSIONAL ENGINEER No. 8297-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Russell M. Arakaki APRIL 30, 2012

ParEn, Inc. dba PARK ENGINEERING — LIC. EXP. DATE

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

Mon, 23 Jan 2012 - 10:02am
D:\Projects\STATE\DOT\CASHILL\DESIGN\PHASE 2\ADD1\17-Cashills-ph2-Gabion Apron_ADD1.dwg

DATE	REVISION
⚠1 1/19/12	Deleted Stations. Added Gabion Cutoff Wall Detail.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GABION WALL AND APRON DETAIL

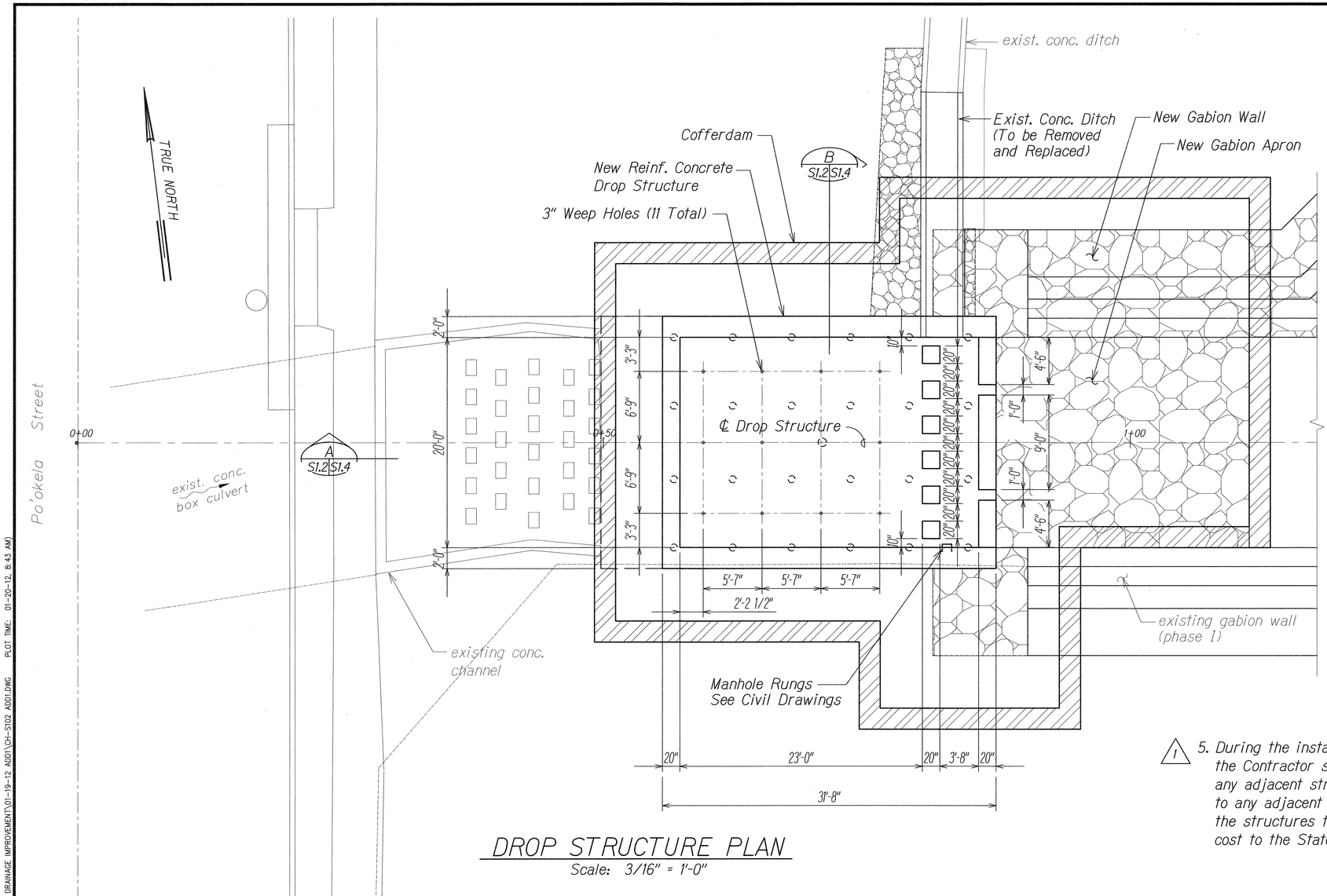
CASTLE HILLS ACCESS ROAD
Drainage Improvements, Phase 2
FEDERAL-AID PROJECT NO. STP-0300(125)

Scale: As Shown — Date: December 2011

SHEET No. C5.1 OF C5.4 SHEETS

ADD. 17

FED. ROAD DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	ADD. 35	55



DROP STRUCTURE PLAN

Scale: 3/16" = 1'-0"

Notes:

1. The Contractor shall install a cofferdam, with a minimum depth of 50 feet measured from the highest adjacent existing grade, to construct the drop structure. Except for the minimum depth, the exact location, details, and extent of the cofferdam shall be determined by the Contractor

2. The adequacy and safety of the cofferdam and temporary excavation shall be the sole responsibility of the Contractor. See Foundation Notes on sheet no. S0.1.

3. The Contractor shall hire a civil engineer experienced in geotechnical engineering and a structural engineer, both licensed in State of Hawaii, to evaluate and provide design calculations and shop drawings for the cofferdam and temporary excavation. Plans and calculations shall be submitted to the Engineer for review and acceptance prior to performing any work on the cofferdam or excavation for the drop structure. The work for the evaluation, design, construction, and removal of the cofferdam and the temporary excavation will not be paid for separately but shall be considered incidental to Item No. 205.0400 Temporary Cofferdam for Concrete Drop Structure.

4. The construction sequence, access and method for the drop structure, including but not limited to the cofferdam and excavation, shall be submitted to the Engineer for review and acceptance prior to performing any work related to the drop structure. This work will not be paid for separately but shall be considered incidental to Item No. 205.0400 Temporary Cofferdam for Concrete Drop Structure.

△1 5. During the installation and removal of the cofferdam, the Contractor shall ensure no damage is caused to any adjacent structures. If any damage does occur to any adjacent structures, the Contractor shall repair the structures to pre-construction conditions at no cost to the State.

DAVID K. FUJIWARA LICENSED PROFESSIONAL ENGINEER NO. 8104-S HAWAII, U.S.A.

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David K. Fujiwara — KSF, INC. — APRIL 30, 2012 LIC. EXP. DATE

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

DRAWING NAME: Z:\DO ONGOING\9041-CASTLE HILLS KAPUNAHALA STR DRAINAGE IMPROVEMENT\01-19-12 ADD1\CH-S102 ADD1.DWG PLOT TIME: 01-20-12, 8:43 AM)

DATE	REVISION
01/19/12	△1 Added Note

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DROP STRUCTURE PLAN AND NOTES

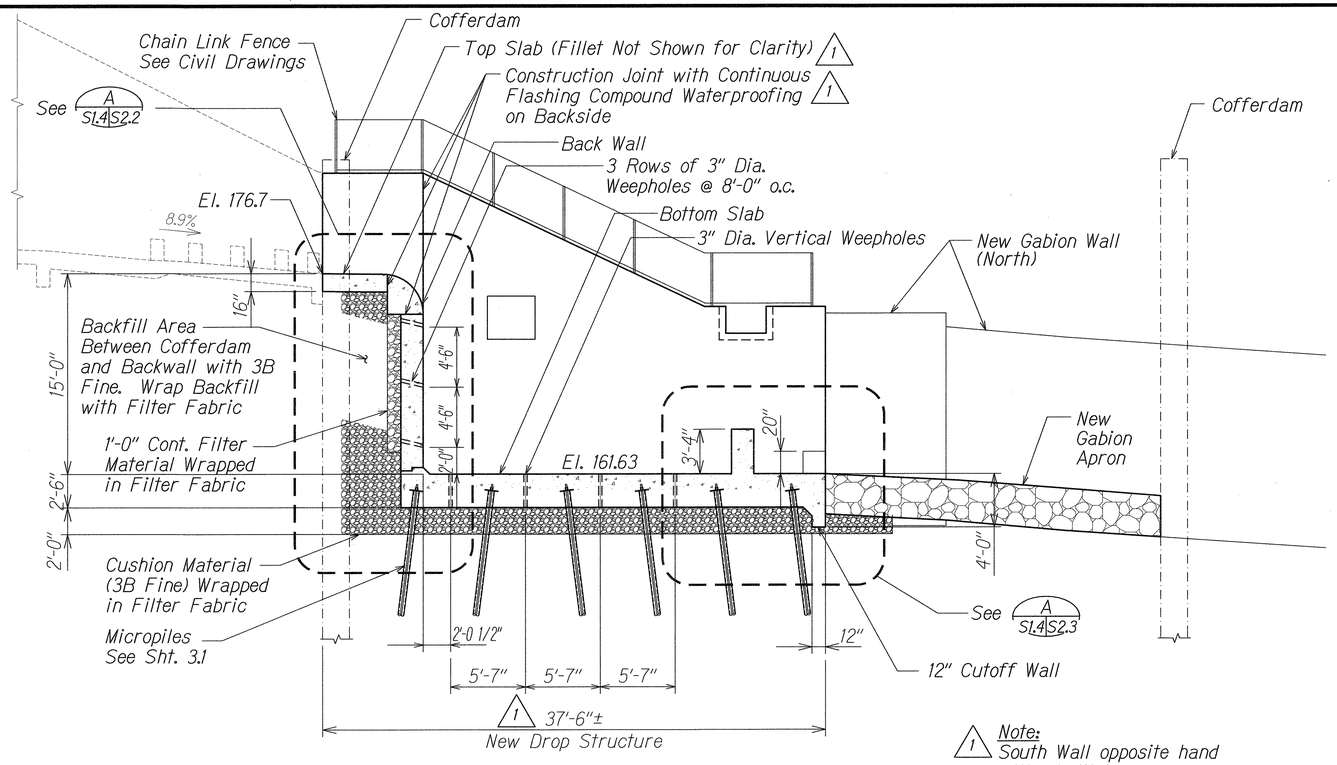
CASTLE HILLS ACCESS ROAD
Drainage Improvements, Phase 2
Federal-Aid Project No. STP-0300(125)

Scale: As Shown Date: Dec. 2011

SHEET No. S1.2 OF 17 SHEETS

ADD. 35

FED. ROAD DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	ADD. 37	55



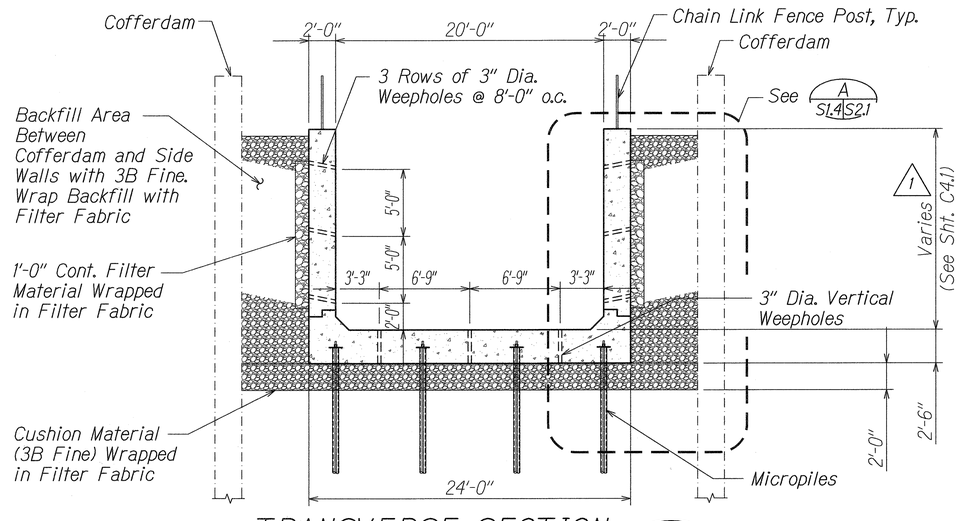
1 Note: South Wall opposite hand without ditch.

LONGITUDINAL SECTION A

Scale: 3/16" = 1'-0"

S1.1 | S1.4

S1.2, S1.3



TRANSVERSE SECTION B

Scale: 3/16" = 1'-0"

S1.1 | S1.4

S1.2, S1.3

DEWATERING NOTES:

The Engineer has obtained a NGPC, NPDES from the State of Hawaii, DOH-CWB for the discharge of construction activity dewatering (File No. HI 09GD389). The Contractor shall comply with all requirements and conditions of the NGPC, including but not limited to preparing and submitting an updated construction schedule, site-specific dewatering plan, site-specific dewatering system maintenance plan and site-specific construction pollution prevention plan.

Dewatering by means of a well point system along the outside of the excavations is not permitted. The potential impact of the dewatering system selected on depressing the natural groundwater table shall be carefully evaluated by the Contractor prior to dewatering. The Contractor shall retain a qualified geotechnical engineer licensed in the State of Hawaii to design and evaluate the dewatering system used. Drawings and design calculations, stamped by Hawaii Licensed Civil Engineer specialized in Geotechnical Engineering shall be submitted for the Engineer's review and approval.

The Contractor is responsible for selection of dewatering equipment/method and construction dewatering. The Contractor shall be aware that modifications to the dewatering system may be required during construction depending on the conditions encountered. The dewatering method selected shall have minimal impact on the groundwater level surrounding the proposed excavation. The dewatering operations shall be coordinated with the cofferdam structure such that the stability of the excavations is not jeopardized. The operations shall be carried-out without softening the bottom of the excavations.

The Contractor shall carefully evaluate the potential impact of the dewatering system selected on depressing the natural groundwater table prior to dewatering. The Contractor shall be solely responsible for the impact and safety of the dewatering operations, and promptly observe the effects of dewatering during construction and implement, as soon as possible, necessary precautionary or remedial measures including, but not limited to, slowing down or stopping the dewatering operations.

Where encountered at the bottom of excavations, permeable granular subsoils may be susceptible to piping and "quick" conditions. The dewatering operations shall be carried-out without creating a "quick" condition or softening at the excavation bottoms. The dewatering operations shall be performed without pumping out soil fines (pumping clear water only) and shall be coordinated with the cofferdam installation such that the excavation stability is not adversely affected. Excessive pumping, which removes soil fines, and result in "blowing" or heaving of the excavation bottom or sides shall be avoided.

Cofferdam using sheet piles, shall be considered to aid in dewatering the excavation. The Contractor shall submit drawings and design calculations, stamped by Hawaii Licensed Structural Engineer, showing proposed method of cofferdam construction and other details for the State's review and approval.

Sumps shall be used to collect water that percolates up into the base of the excavation or infiltrates through the sheet piles. The sheet piles shall be driven to a sufficient depth to reduce the potential for areal ground subsidence and to reduce the amount of dewatering within the excavations.

See Foundation Notes on Sheet No. S0.1.

DAVID K. FUJIWARA LICENSED PROFESSIONAL ENGINEER NO. 8104-S HAWAII, U.S.A.

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KSF, INC. APRIL 30, 2012 LIC. EXP. DATE

CLAYTON S. MIMURA LICENSED PROFESSIONAL ENGINEER NO. 4176-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE 4-30-12 EXPIRATION DATE OF THE LICENSE

DATE	REVISION
01/19/12	1 Added Construction Joint. Note Clarification.

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

DRAWING NAME: Z:\00 ONGOING\9041-CASTLE HILLS KAPUNAHALA STR DRAINAGE IMPROVEMENT\01-19-12 ADD1\GH-S104 ADD1.DWG PLOT TIME: 01-20-12, 8:43 AM)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DROP STRUCTURE SECTIONS AND NOTES

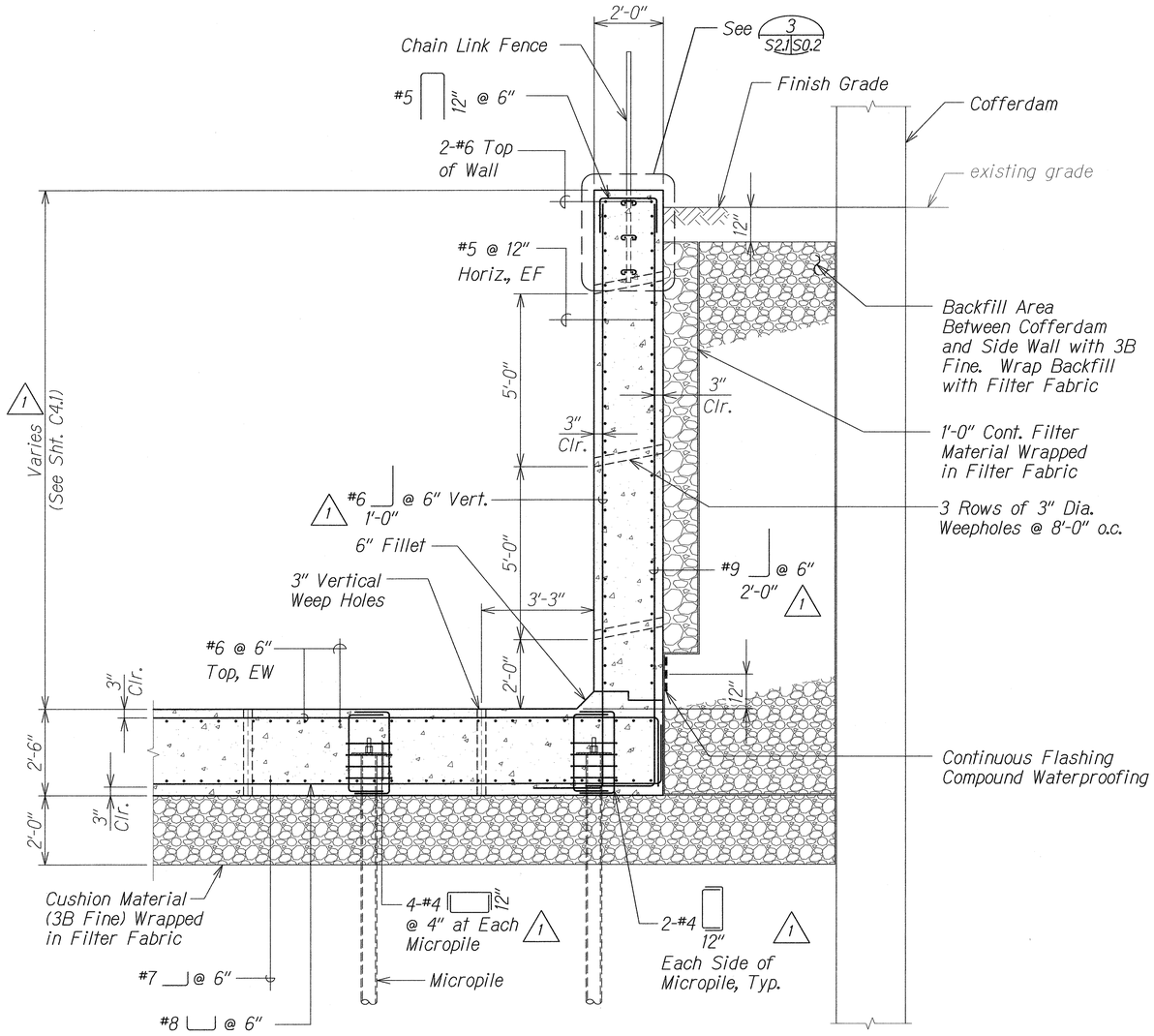
CASTLE HILLS ACCESS ROAD
Drainage Improvements, Phase 2
Federal-Aid Project No. STP-0300(125)

Scale: As Shown Date: Dec. 2011

SHEET No. S1.4 OF 17 SHEETS

ADD. 37

FED. ROAD DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	ADD. 38	55



DROP STRUCTURE SECTION

A S1.4 S2.1

Scale: 1/2" = 1'-0"

DRAWING NAME: Z:\00 ONGOING\9041-CASTLE HILLS KAPUNAHALA STR DRAINAGE IMPROVEMENT\01-19-12 ADD1\CH-S201 ADD1.DWG PLOT TIME: 01-20-12, 8:47 AM

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

DATE	REVISION
01/19/12	1 Rebar and Dimension Clarifications

DAVID K. FUJIWARA LICENSED PROFESSIONAL ENGINEER NO. 8104-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

KSF, INC. APRIL 30, 2012 LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIDE WALL SECTION

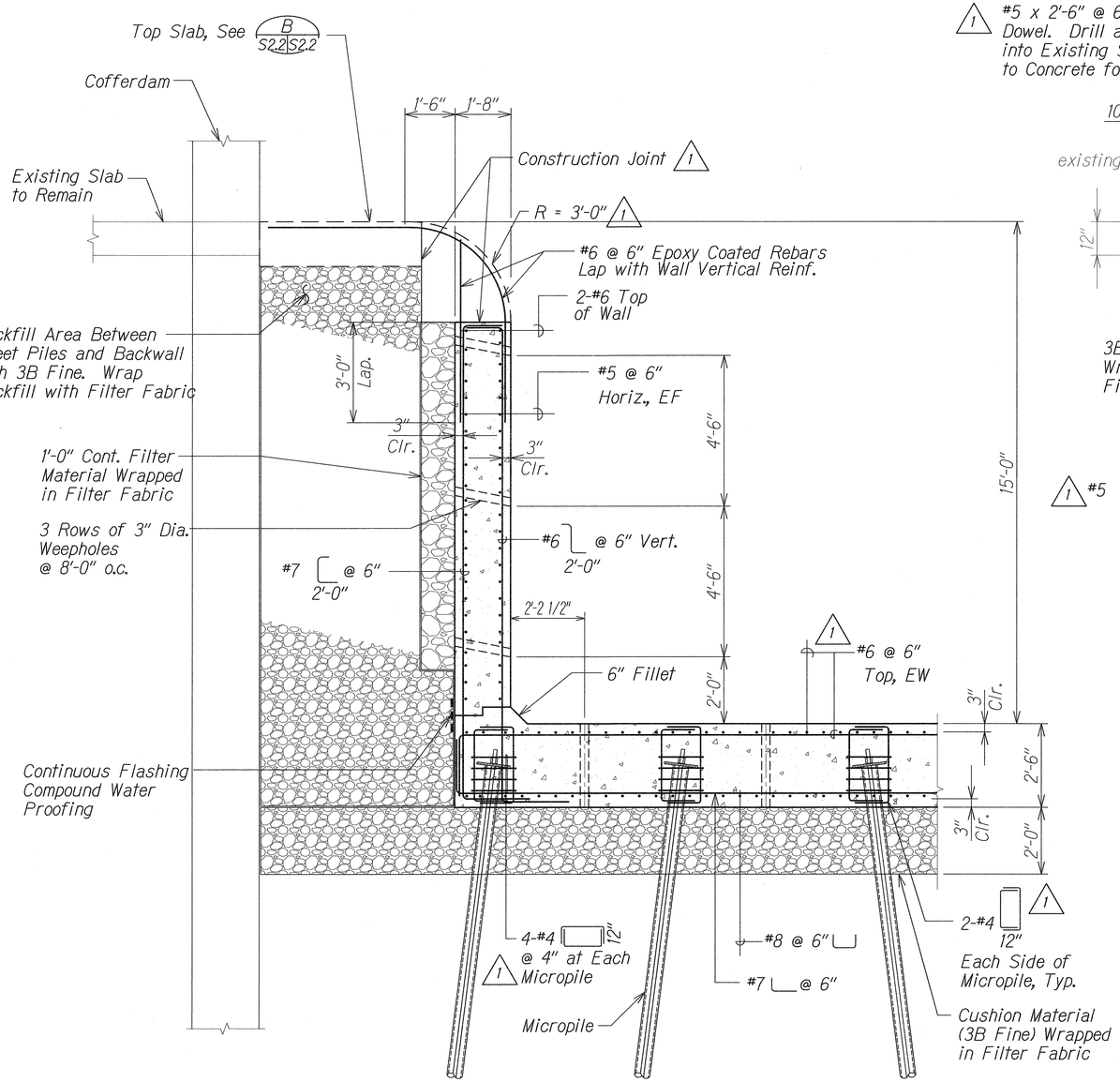
CASTLE HILLS ACCESS ROAD
Drainage Improvements, Phase 2
Federal-Aid Project No. STP-0300(125)

Scale: As Shown Date: Dec. 2011

SHEET No. S2.1 OF 17 SHEETS

ADD. 38

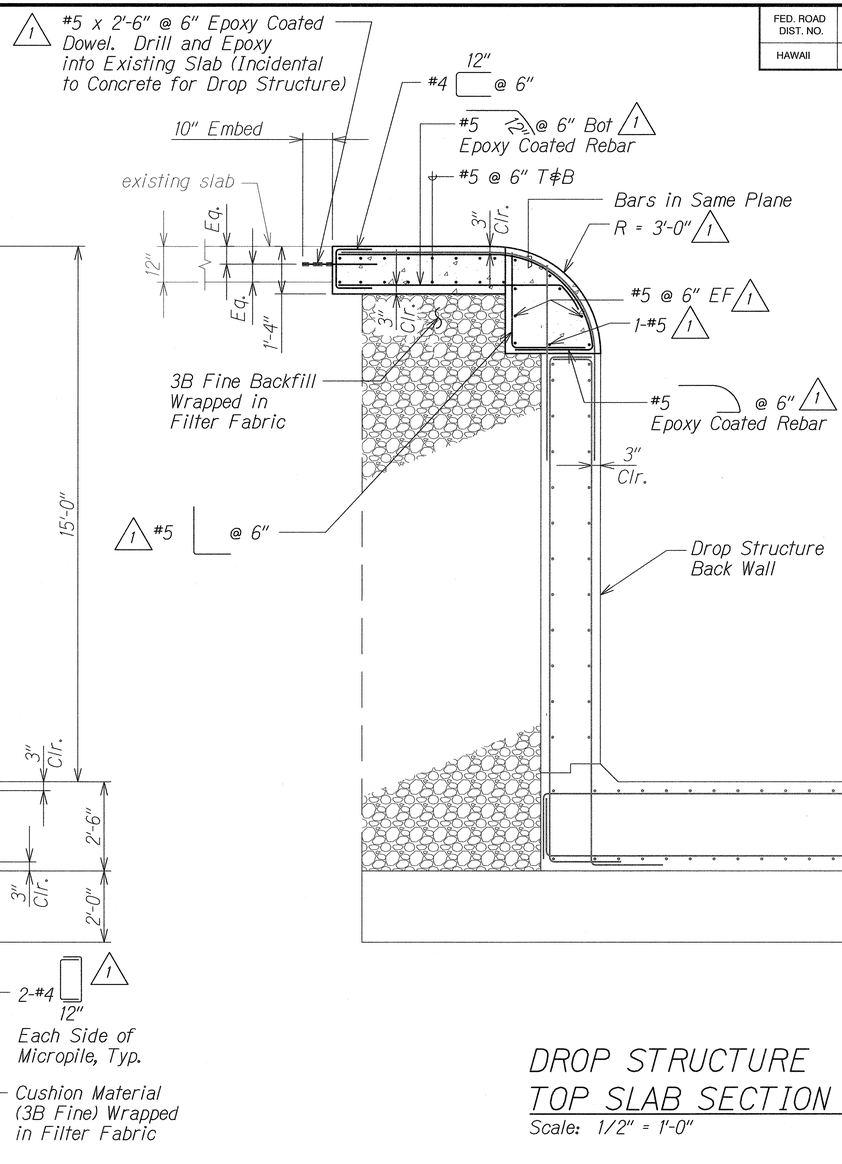
FED. ROAD DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	ADD. 39	55



DROP STRUCTURE BACK WALL SECTION

Scale: 1/2" = 1'-0"

A S1.4|S2.2



DROP STRUCTURE TOP SLAB SECTION

Scale: 1/2" = 1'-0"

B S2.2|S2.2

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KSF, INC. APRIL 30, 2012 LIC. EXP. DATE

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NOTE BOOK | No.

DRAWING NAME: Z:\00 ONGOING\9041-CASTLE HILLS KAPUNAHALA STR DRAINAGE IMPROVEMENT\01-19-12 ADD1\CH-S201 ADD1.DWG PLOT TIME: 01-20-12, 1:12 PM

DATE	REVISION
01/19/12	1 Clarified Notes. Added Construction Joint. Revised Reinforcing

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BACK WALL SECTIONS

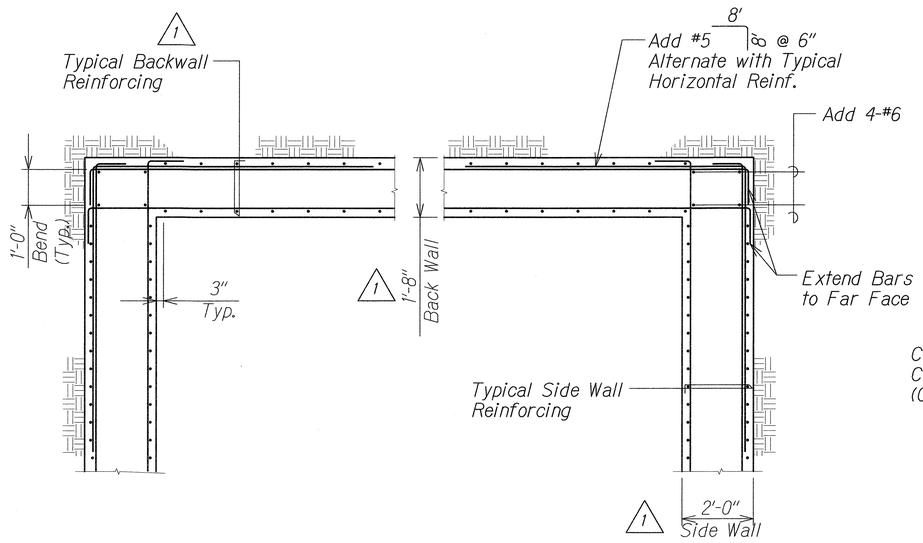
CASTLE HILLS ACCESS ROAD
Drainage Improvements, Phase 2
Federal-Aid Project No. STP-0300(125)

Scale: As Shown Date: Dec. 2011

SHEET No. S2.2 OF 17 SHEETS

ADD. 39

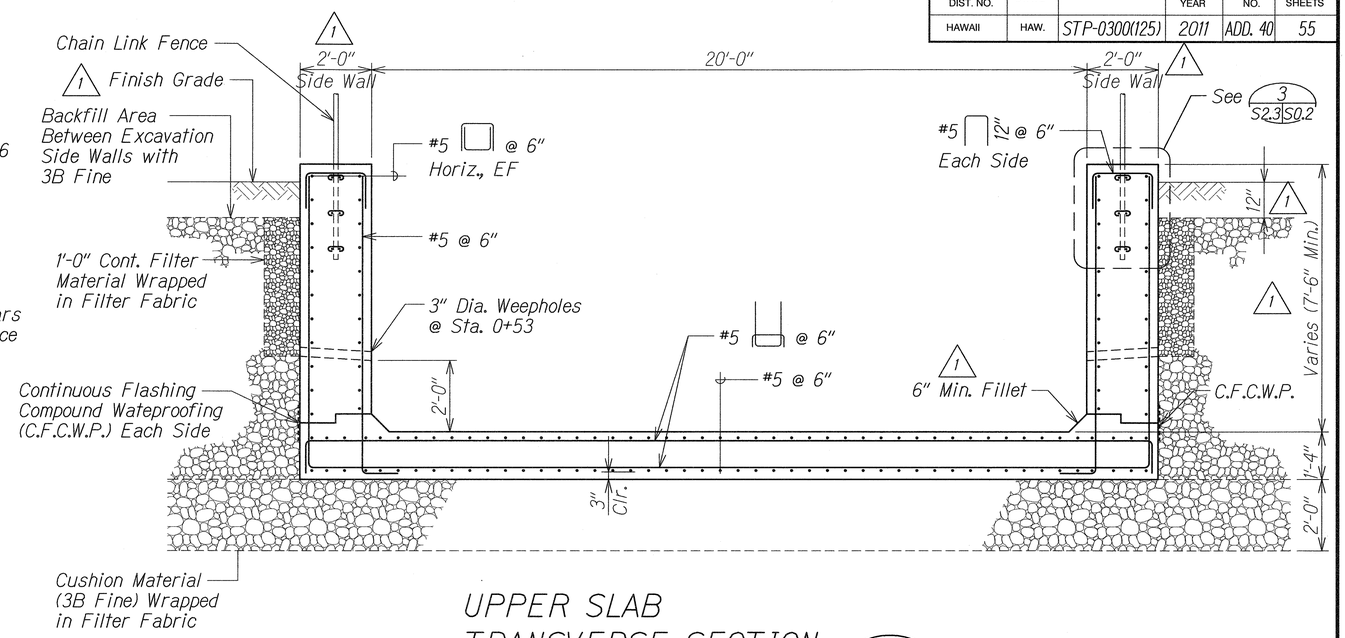
FED. ROAD DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	ADD. 40	55



PLAN AT BACKWALL AND SIDEWALL CORNER

Scale: 1/2" = 1'-0"

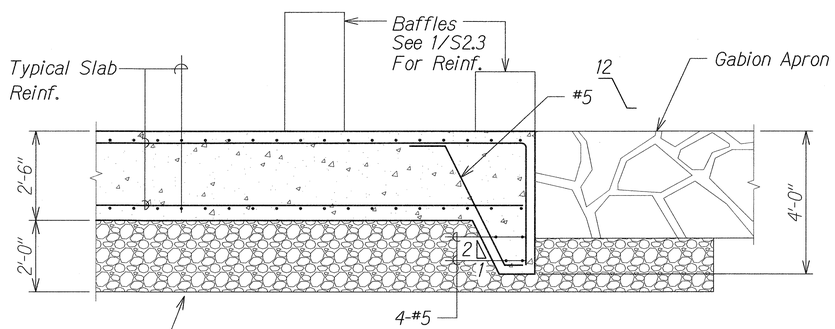
A S2.3 | S2.3



UPPER SLAB TRANSVERSE SECTION

Scale: 1/2" = 1'-0"

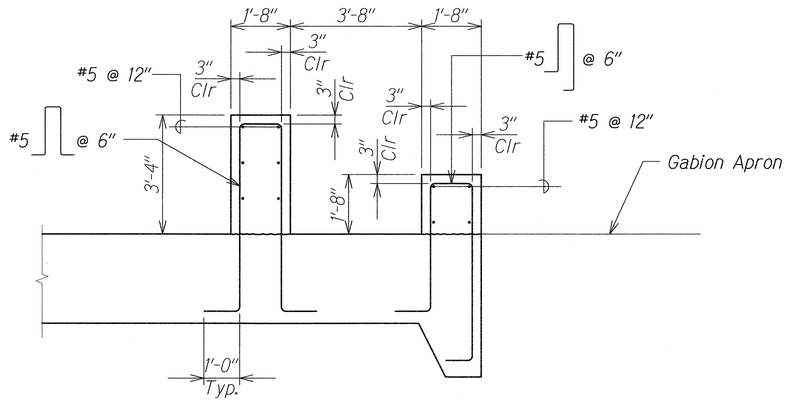
B S1.3 | S2.3



DROP STRUCTURE CUTOFF WALL SECTION

Scale: 1/2" = 1'-0"

C S1.4 | S2.3



1 BAFFLES DETAIL

Scale: 1/2" = 1'-0"

1 S2.3 | S2.3

DAVID K. FUJIMARA LICENSED PROFESSIONAL ENGINEER NO. 8104-S HAWAII, U.S.A.

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KSF, INC. — APRIL 30, 2012 LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DROP STRUCTURE PLAN, SECTIONS AND DETAIL

CASTLE HILLS ACCESS ROAD

Drainage Improvements, Phase 2

Federal-Aid Project No. STP-0300(125)

Scale: As Shown — Date: Dec. 2011

SHEET No. S2.3 OF 17 SHEETS

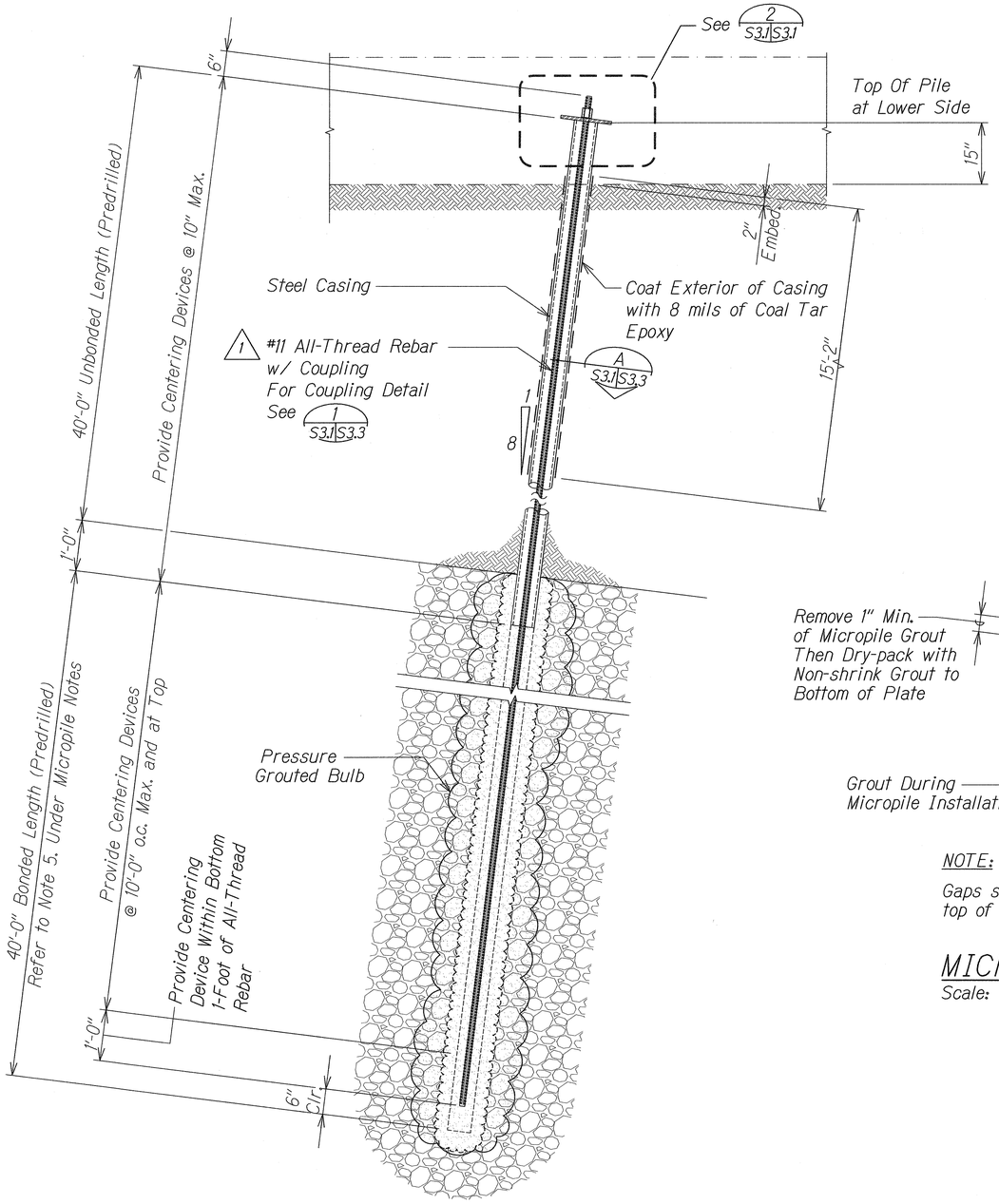
DATE	REVISION
01/19/12	1 Note Clarification.

ADD. 40

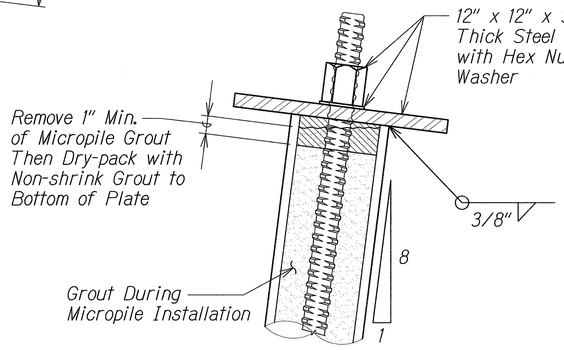
ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE
NOTE BOOK | No.

DRAWING NAME: Z:\00 ONGOING\9041-CASTLE HILLS KAPUNAHALA STR DRAINAGE IMPROVEMENT\01-19-12 ADD1\CH-S201 ADD1.DWG PLOT TIME: 01-20-12, 11:42 AM)

FED. ROAD DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	ADD. 42	55



TYPICAL MICROPILE DETAIL 1 S3.1 S3.1
Scale: 3/4" = 1'-0"



NOTE:

Gaps shall not exist between plate and top of steel casing and non-shrink grout.

MICROPILE DETAIL 2 S3.1 S3.1
Scale: 3" = 1'-0"

MICROPILE NOTES:

1. All nuts and bar couplings shall develop 100% of the bar's ultimate tensile strength.
2. Splices within steel casing shall develop 100% of the steel casing's ultimate tensile strength.
3. All accessories such as nuts, couplings, washers, and steel plates shall be hot-dip galvanized according to ASTM A-153.
4. Material Properties of Accessories:
   (a) Steel Plates - ASTM A36
   (b) Hex Nuts - ASTM A108
   (c) Couplings - ASTM A108
   (d) Washers - ASTM F436
5. The bonded length is estimated. The actual bonded length will be determined by the Engineer after the preproduction micropile load test.
6.

Micropile Load Combination (Demand)			
	Axial Load (kips)	Moment (k-ft)	
Strength Limit State	80 Compression	30	1
Strength Limit State	30 Tension	30	1

1

DAVID K. FUJIWARA LICENSED PROFESSIONAL ENGINEER NO. 8104-S HAWAII, U.S.A.

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KSF, INC. — APRIL 30, 2012 LIC. EXP. DATE

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DATE	REVISION
01/19/12	1 Revised Bar Size. Revised Demand Loads.

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MICROPILE DETAILS AND NOTES

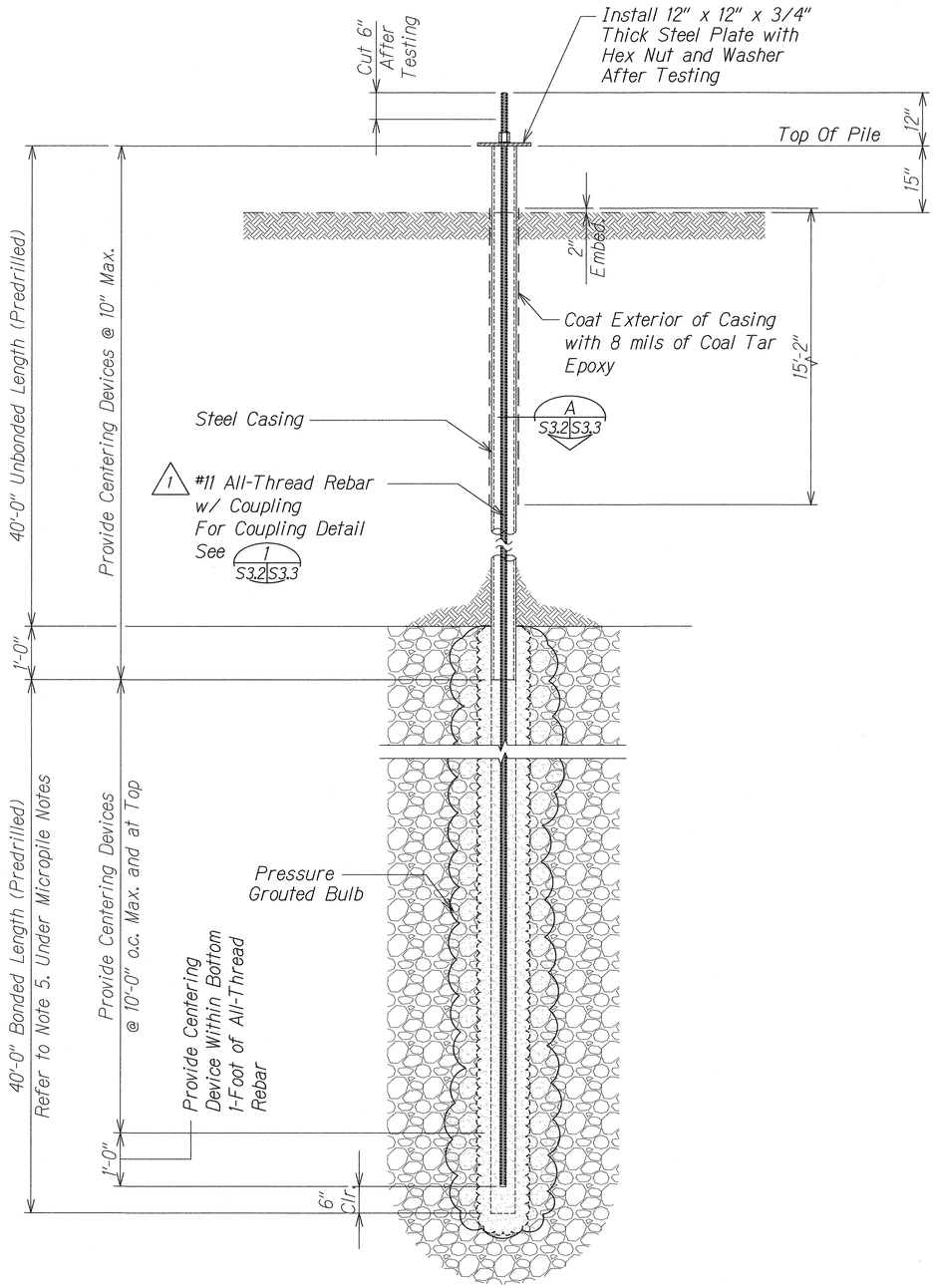
CASTLE HILLS ACCESS ROAD
Drainage Improvements, Phase 2
Federal-Aid Project No. STP-0300(125)

Scale: As Shown Date: Dec. 2011

SHEET No. S3.1 OF 17 SHEETS

ADD. 42

FED. ROAD DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	ADD. 43	55



TYPICAL PREPRODUCTION MICROPILE DETAIL

Scale: 3/4" = 1'-0"

1 S3.2 S3.2

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
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DRAWING NAME: Z:\OO ONGOING\9041-CASTLE HILLS KAPUNAHALA STR DRAINAGE IMPROVEMENT\01-19-12 ADD1\CH-S301 ADD.DWG PLOT TIME: 01-20-12, 8:44 AM)

DATE	REVISION
01/19/12	1 Revised Bar Size.

DAVID K. FUJIWARA LICENSED PROFESSIONAL ENGINEER NO. 8104-S HAWAII, U.S.A.

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KSF, INC. — APRIL 30, 2012 LIC. EXP. DATE

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPRODUCTION MICROPILE DETAIL

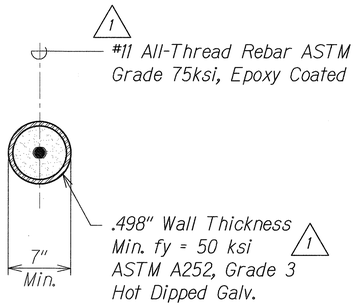
CASTLE HILLS ACCESS ROAD
Drainage Improvements, Phase 2
Federal-Aid Project No. STP-0300(125)

Scale: As Shown Date: Dec. 2011

SHEET No. S3.2 OF 17 SHEETS

ADD. 43

FED. ROAD DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	ADD. 44	55



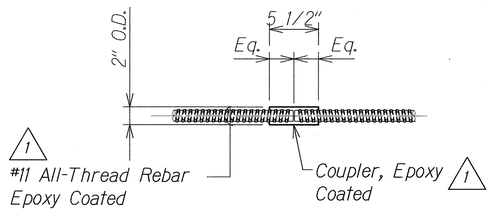
NOTES:

1. Centering devices (centralizers) shall be fabricated from plastic or material non-detrimental to the reinforcing steel.
2. The centralizer shall support the reinforcing such that a minimum of 2" of grout cover is provided and shall permit grout to flow freely up the drill hole.

TYPICAL MICROPILE SECTION

A
S3.1 | S3.3

Scale: 1 1/2" = 1'-0"



NOTE:

Coupler to develop full ultimate tensile strength of All-Thread Rebar.

COUPLER DETAIL OF ALL-THREAD REBAR

1
S3.1 | S3.3

Scale: 1 1/2" = 1'-0"

COUPLER INSTALLATION PROCEDURE

1. Apply corrosion inhibiting grease to the bare ends of the bars and the inside of the coupler.
2. Connect the two bar ends with the coupler. Each end shall be screwed into the coupler half the length of the coupler.
3. Add another coat of grease to bare bar and coupler and wrap with two layers of denso tape.

PREPARATION FOR FIELD CUT BARS

1. Cut corrosion protection and all-thread rebar with an abrasive saw (DO NOT USE A TORCH).

DRAWING NAME: Z:\DO ONGOING\9041-CASTLE HILLS KAPUNAHALA STR DRAINAGE IMPROVEMENT\01-19-12 ADD1\CH-S303 ADD1.DWG PLOT TIME: 01-20-12, 8:45 AM)

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

DATE	REVISION
01/19/12	1 Revised Bar Size. Revised Casing Properties. Revised Coupler Properties.

DAVID K. FUJIWARA
LICENSED PROFESSIONAL ENGINEER
NO. 8104-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

KSF, INC. — APRIL 30, 2012 LIC. EXP. DATE

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MICROPILE DETAIL AND SECTION

CASTLE HILLS ACCESS ROAD
Drainage Improvements, Phase 2
Federal-Aid Project No. STP-0300(125)

Scale: As Shown Date: Dec. 2011

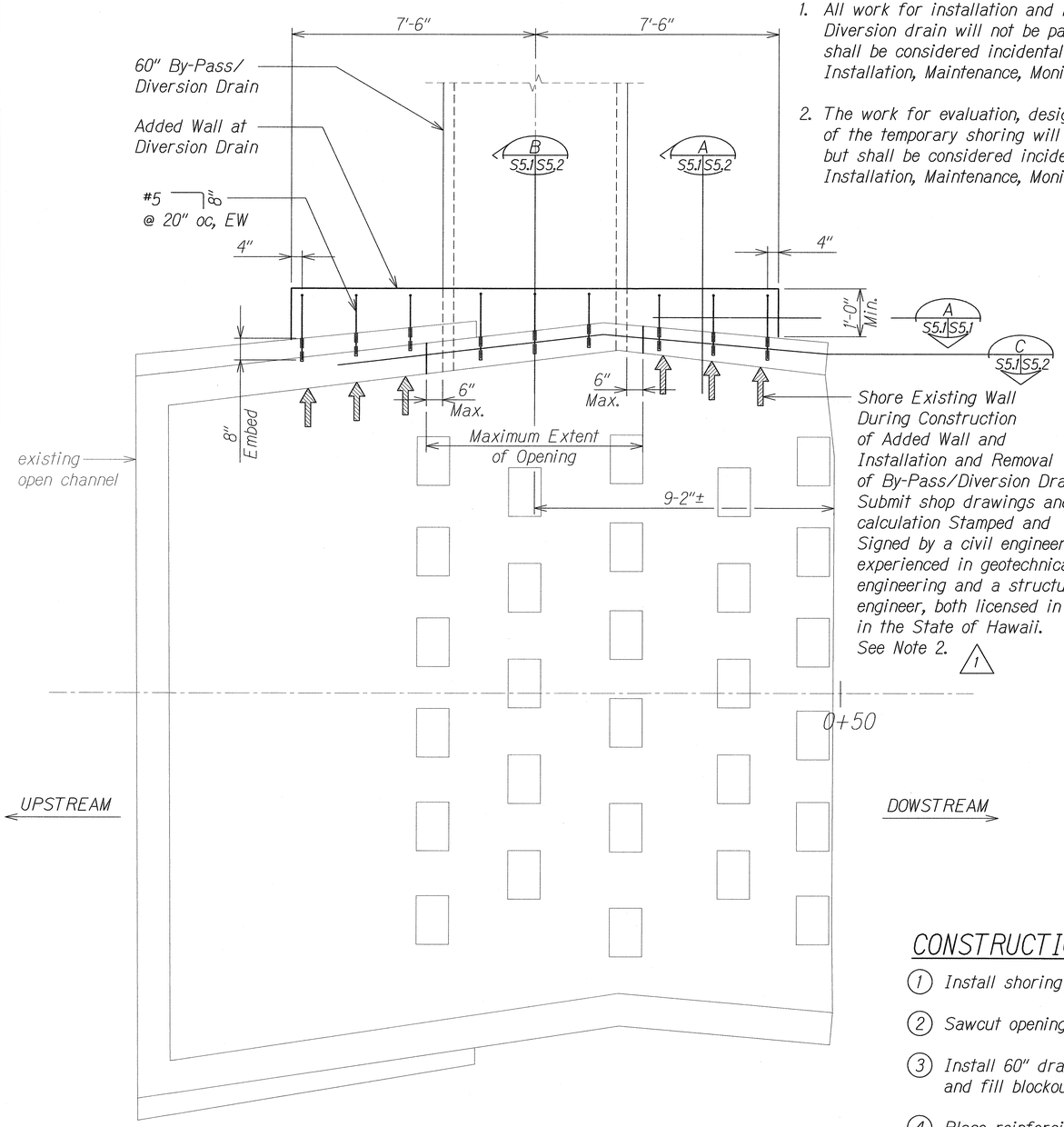
SHEET No. S3.3 OF 17 SHEETS

ADD. 44

FED. ROAD DIST. NO.	STATE	FED. AID	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	ADD. 46	55

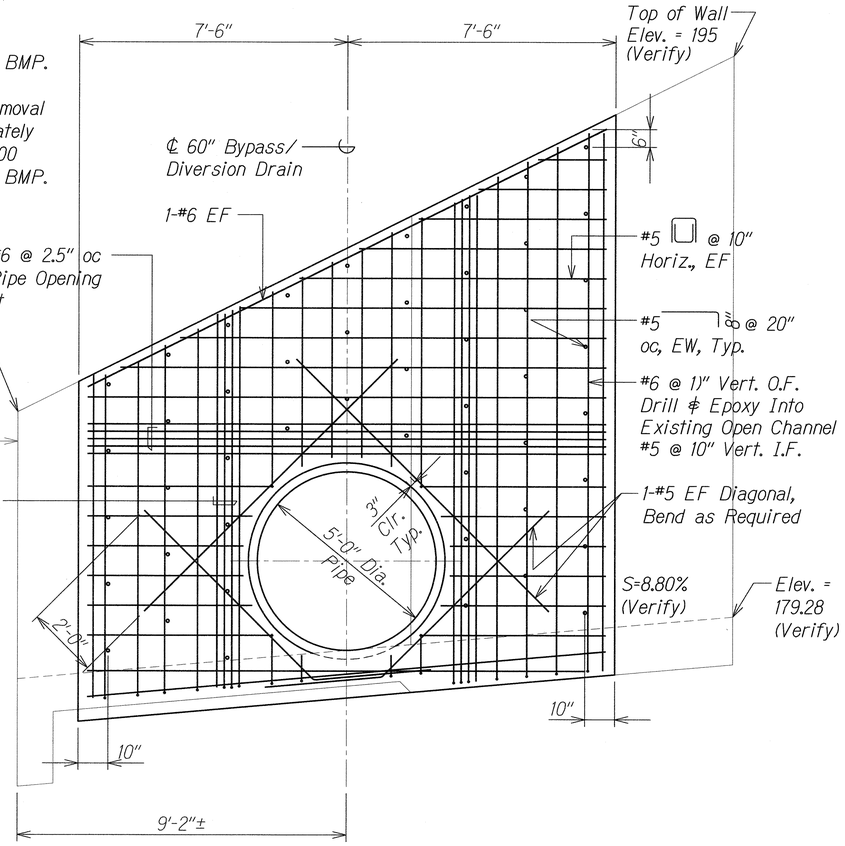
Notes:

1. All work for installation and removal of 60" By-Pass/ Diversion drain will not be paid for separately but shall be considered incidental to Item No. 209.0100 Installation, Maintenance, Monitoring, and Removal of BMP.
2. The work for evaluation, design, construction and removal of the temporary shoring will not be paid for separately but shall be considered incidental to Item No. 209.0100 Installation, Maintenance, Monitoring, and Removal of BMP.



PLAN - ADDED WALL AT DIVERSION DRAIN

Scale: 1/2" = 1'-0"



ELEVATION - ADDED WALL AT DIVERSION DRAIN

Scale: 1/2" = 1'-0"

A S5.1 S5.1

CONSTRUCTION SEQUENCE FOR INSTALLATION OF DIVERSION DRAIN

1. Install shoring and excavate trench for 60" By-Pass / Diversion Drain.
2. Sawcut opening in existing open channel wall.
3. Install 60" drain pipe and reinforcing in opening of existing wall and fill blockout between drain and existing wall, See C/S5.2.
4. Place reinforcing for added wall and pour added wall, See A/S5.1.

DATE	REVISION
01/19/12	1 Revised Note

DAVID K. FUJIWARA — LICENSED PROFESSIONAL ENGINEER — NO. 8104-S — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

KSF, INC. — APRIL 30, 2012 — LIC. EXP. DATE

STATE OF HAWAI'I
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXISTING CONCRETE OUTLET STRUCTURE
THICKENED WALL - PLAN AND ELEVATION
CASTLE HILLS ACCESS ROAD
Drainage Improvements, Phase 2
Federal-Aid Project No. STP-0300(125)

Scale: As Shown — Date: Dec. 2011

SHEET No. S5.1 OF 17 SHEETS

ADD. 46

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

DRAWING NAME: Z:\00 ONGOING\9041-CASTLE HILLS KAPUNAHALA STR DRAINAGE IMPROVEMENT\01-19-12 ADD1\CH-S501 ADD1.DWG PLOT TIME: 01-20-12, 8:43 AM)