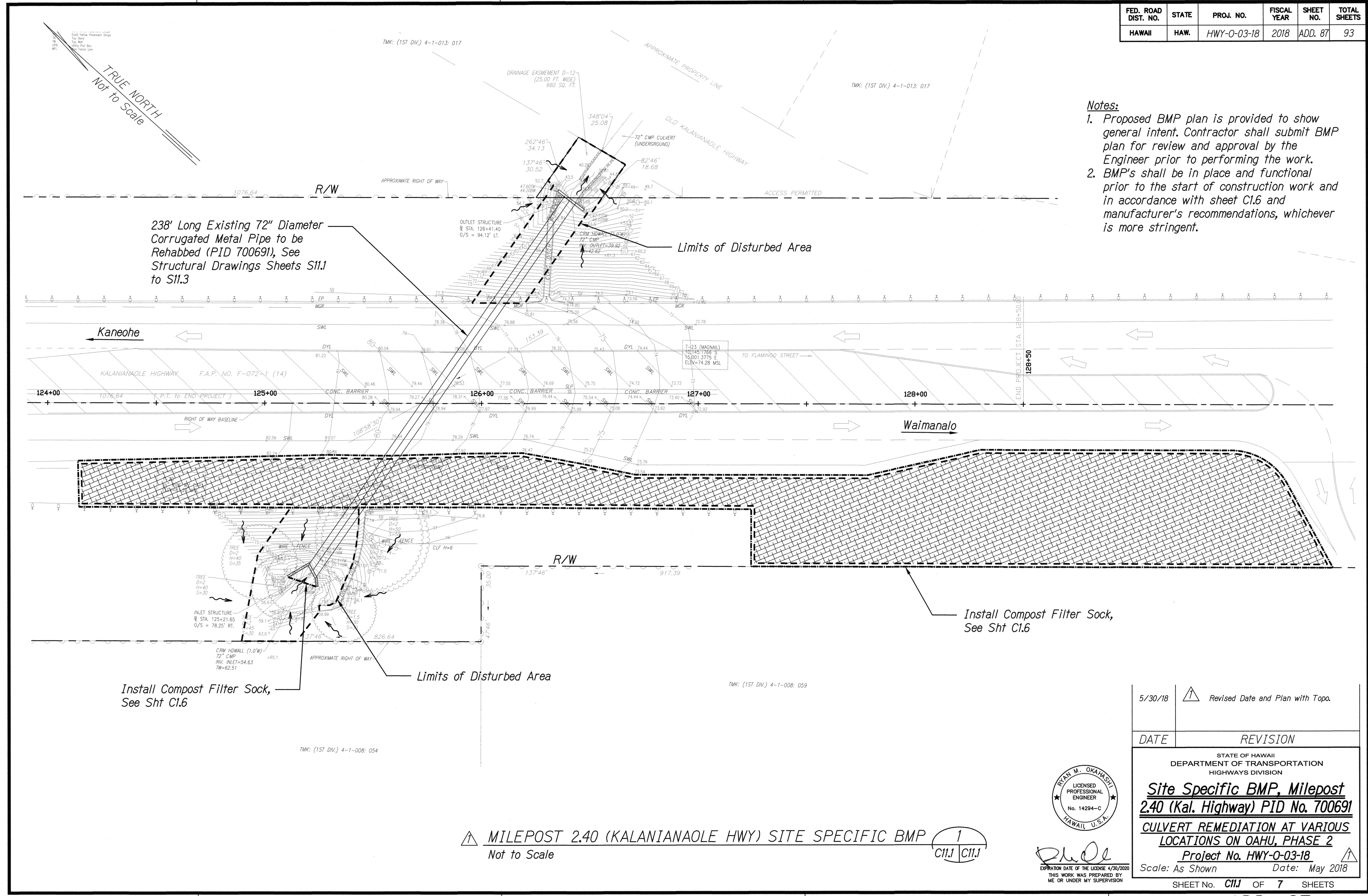
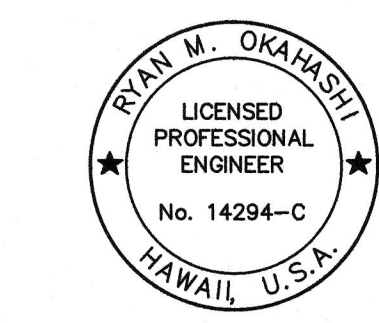


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-18	2018	ADD. 87	93

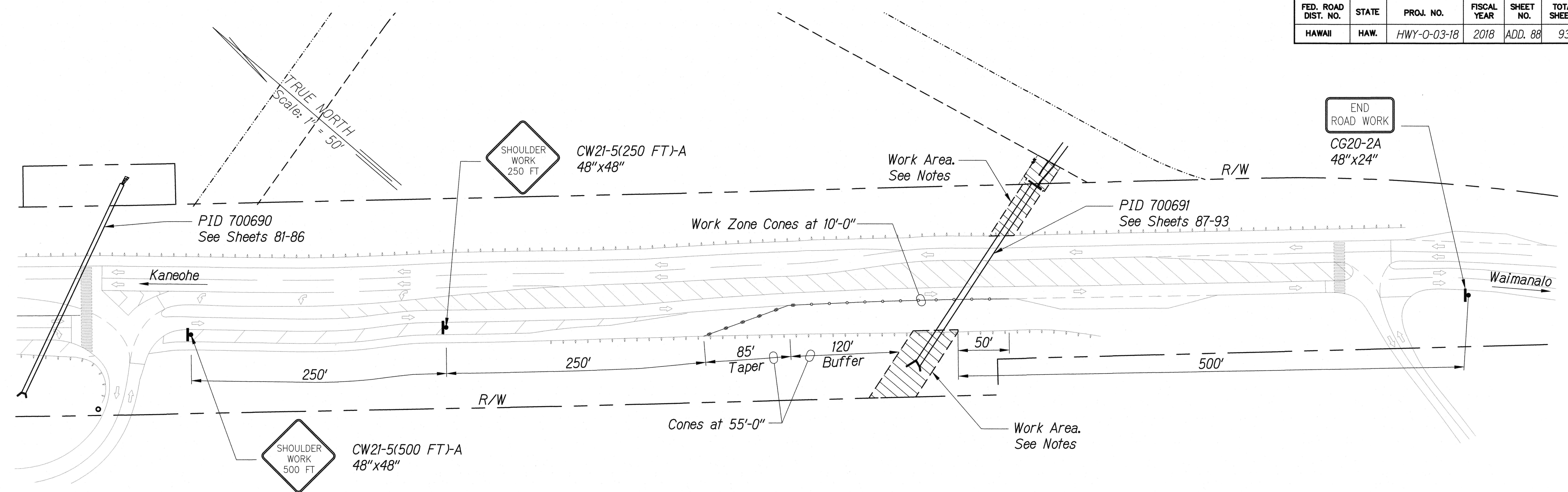


MILEPOST 2.40 (KALANIANA'OLE HWY) SITE SPECIFIC BMP
Not to Scale



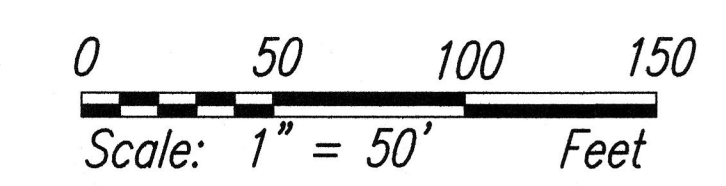
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-18	2018	ADD. 88	93



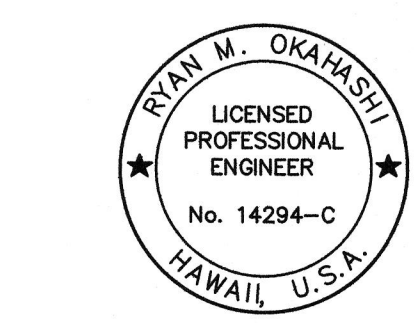
Notes:
 1. Work areas shown here are approximate. Contractor shall submit a traffic control plan reflecting the proposed work areas to the Engineer for review and approval prior to starting construction.

Note:
 See Traffic Control Notes and Table on Sheet C1.7



WAIMANALO BOUND
 MILEPOST 2.40 (KALANIANA'OLE HWY), TRAFFIC CONTROL PLAN
 Scale: 1" = 50'

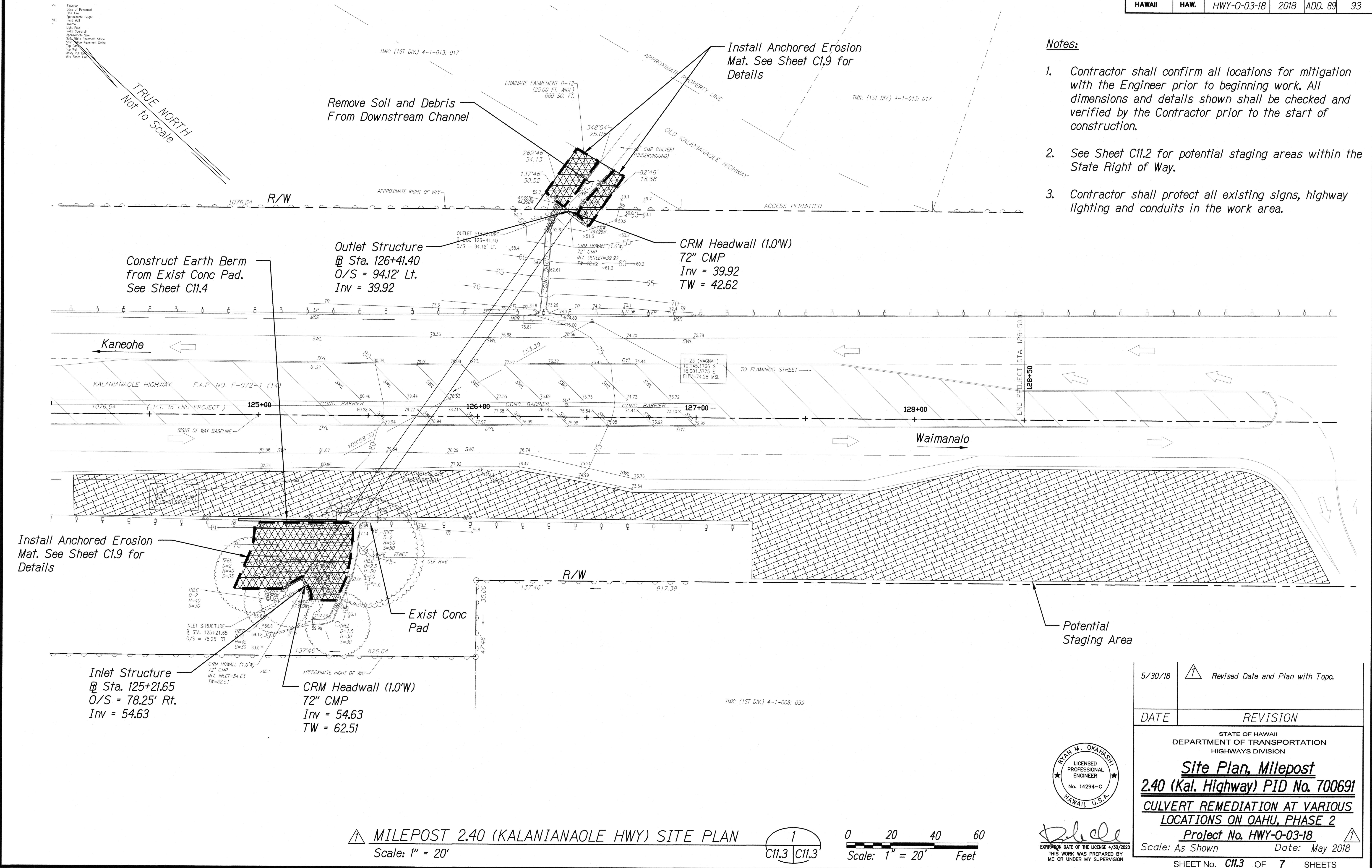
1
 C11.2 | C11.2



[Signature]
 EXPIRATION DATE OF THE LICENSE 4/30/2020
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

5/30/18	△ Revised Date, R/W, and Work Area.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION Traffic Control Plan-01, Milepost 2.40 (Kal. Highway) PID No. 700691 CULVERT REMEDIATION AT VARIOUS LOCATIONS ON OAHU, PHASE 2 Project No. HWY-0-03-18 Scale: As Shown Date: May 2018	
SHEET No. C11.2 OF 7 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-18	2018	ADD. 89	93



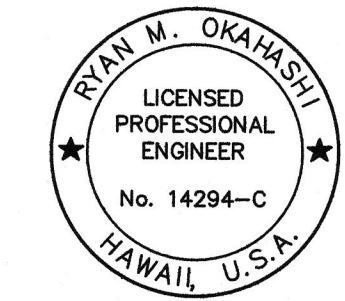
- Notes:**
- Contractor shall confirm all locations for mitigation with the Engineer prior to beginning work. All dimensions and details shown shall be checked and verified by the Contractor prior to the start of construction.
 - See Sheet C11.2 for potential staging areas within the State Right of Way.
 - Contractor shall protect all existing signs, highway lighting and conduits in the work area.

5/30/18	Revised Date and Plan with Topo.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
Site Plan, Milepost 2.40 (Kal. Highway) PID No. 700691	
CULVERT REMEDIATION AT VARIOUS LOCATIONS ON OAHU, PHASE 2	
Project No. HWY-0-03-18	
Scale: As Shown	Date: May 2018
SHEET No. C11.3 OF 7 SHEETS	

MILEPOST 2.40 (KALANIANA'OLE HWY) SITE PLAN
Scale: 1" = 20'

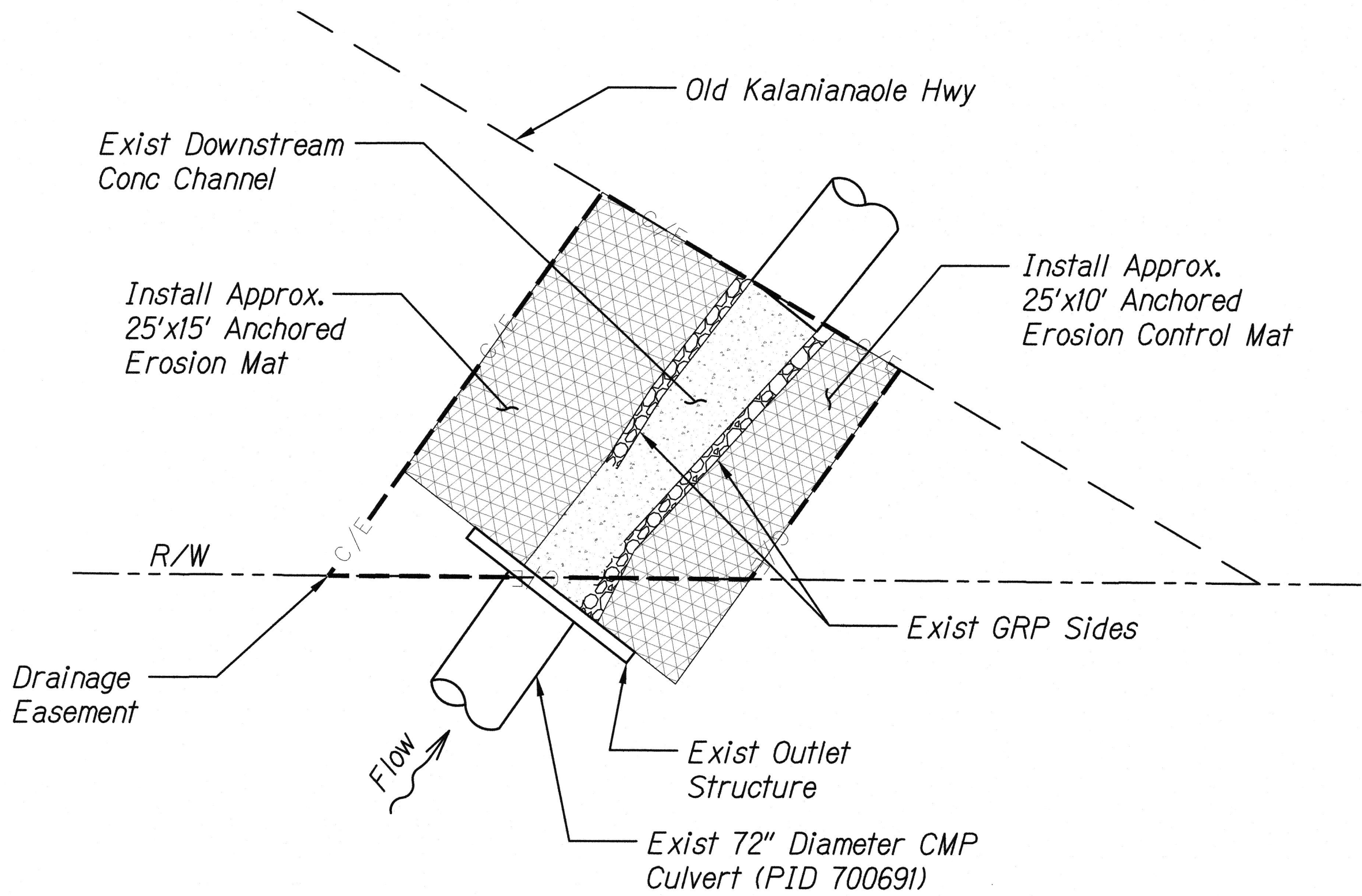
1
C11.3 | C11.3

0 20 40 60
Scale: 1" = 20' Feet

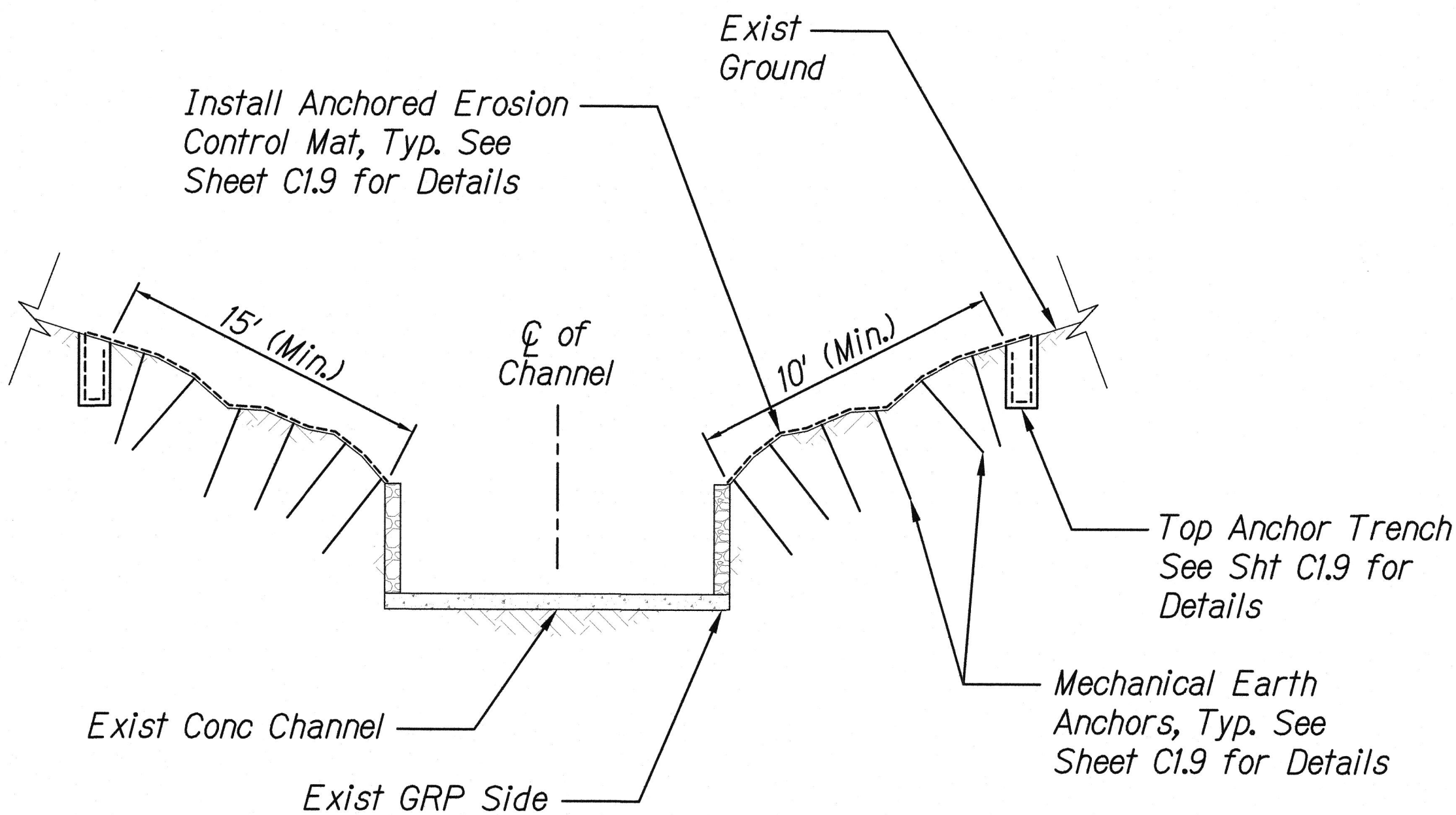


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ME OR UNDER MY SUPERVISION

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-18	2018	ADD. 90	93

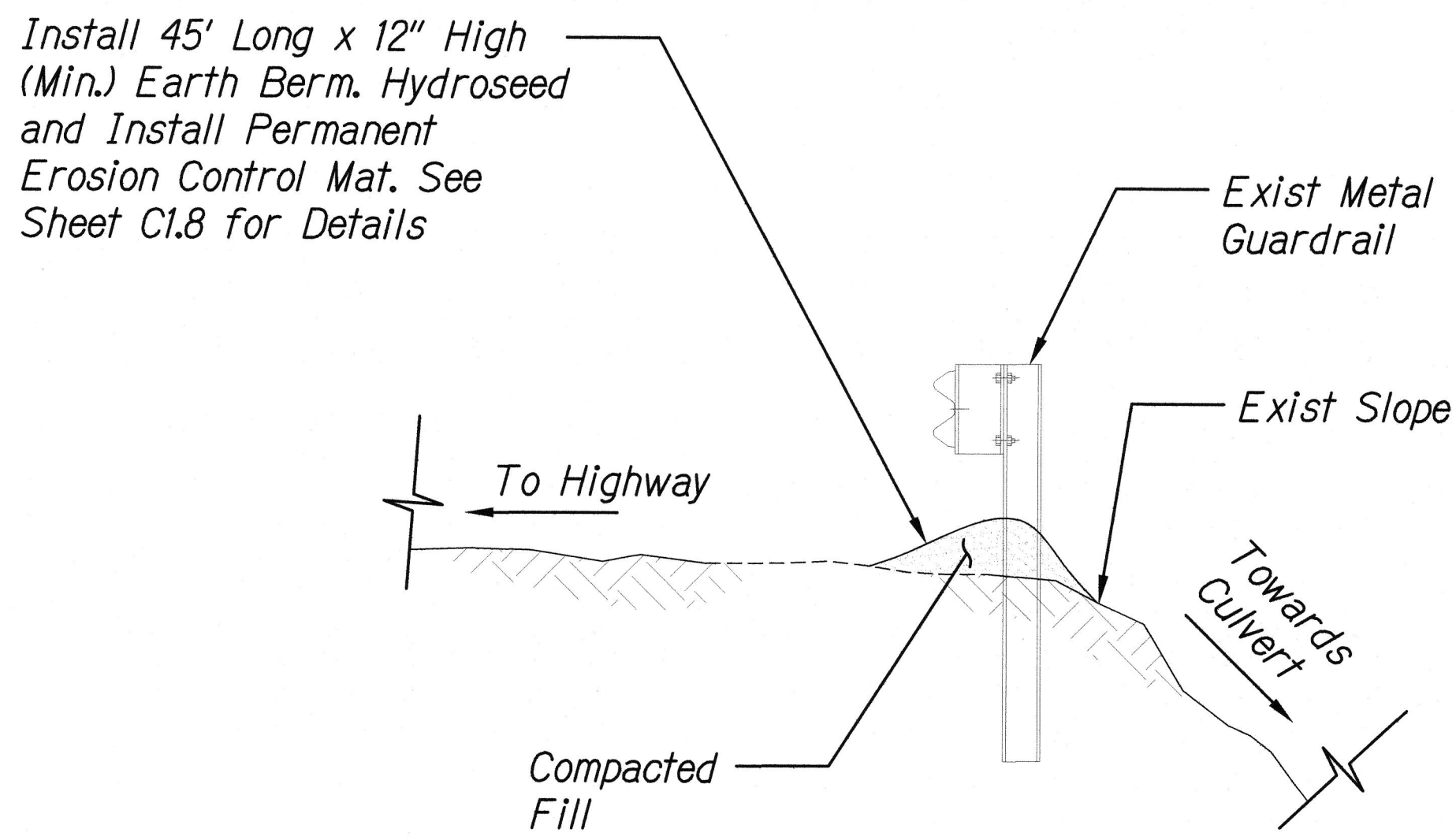


△ OUTLET PLAN VIEW
Not to Scale



OUTLET SECTION VIEW - LOOKING DOWNSTREAM
Not to Scale

- Notes:
- Erosion mat areas are shown in plan view and are approximate. Contractor shall coordinate actual limits with the Engineer in the field.



EARTH BERM DETAIL
Not to Scale

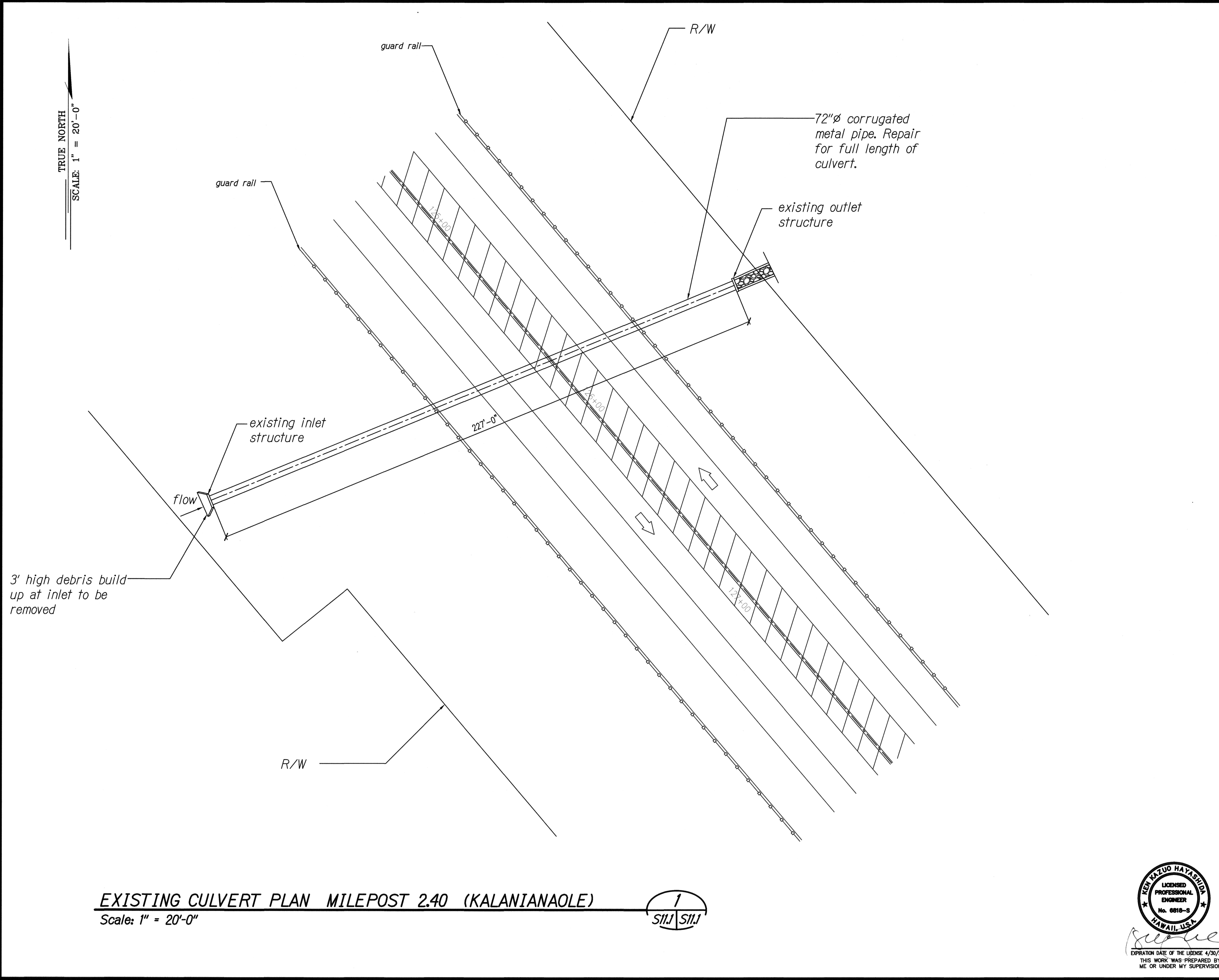
MILEPOST 2.40 (KALANIANA'OLE HWY) SECTION & DETAIL
Not to Scale



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ME OR UNDER MY SUPERVISION

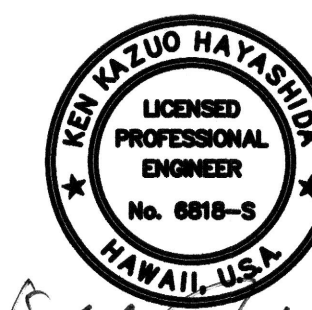
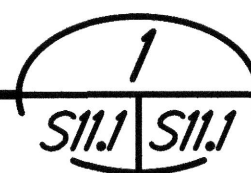
5/30/18	△ Revised Date and Detail.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION Section & Detail, Milepost 2.40 (Kal. Highway) PID No. 700691 CULVERT REMEDIATION AT VARIOUS LOCATIONS ON OAHU, PHASE 2 Project No. HWY-0-03-18 Scale: As Shown Date: May 2018	
SHEET No. C11.4 OF 7 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-18	2018	91	93



EXISTING CULVERT PLAN MILEPOST 2.40 (KALANIANA'OLE)

Scale: 1" = 20'-0"



EXPIRATION DATE OF THE LICENSE 4/30/2020
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

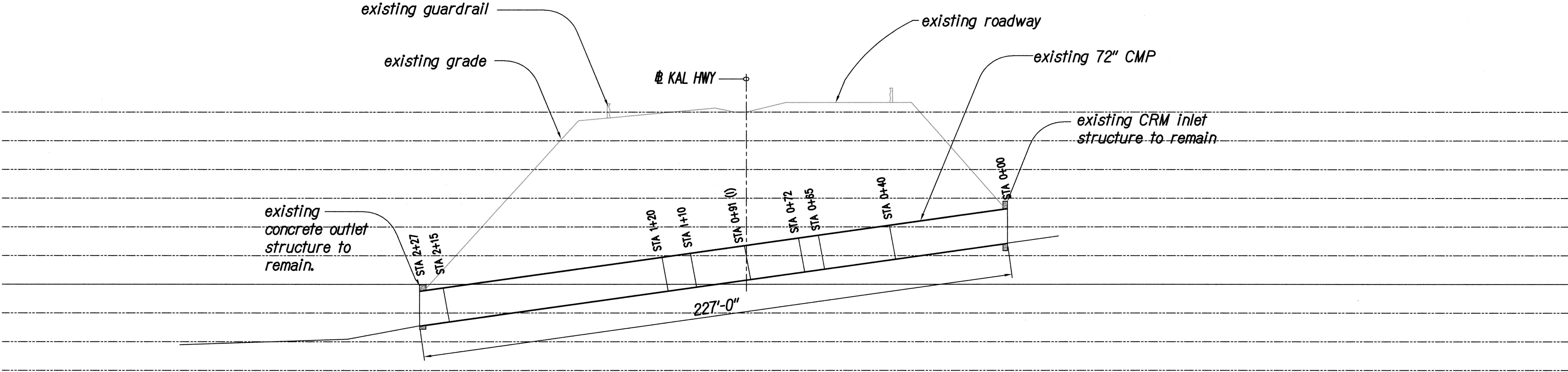
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Culvert Plan, Milepost
2.40 (KAL. HWY) PID No.700691
CULVERT REMEDIATION AT VARIOUS
LOCATIONS ON OAHU, PHASE 2
Project No. HWY-0-03-18

Scale: As Shown Date: March 2018

SHEET No. **91** OF **7** SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-18	2018	ADD.92	93



EXISTING CULVERT SECTION, MILEPOST 2.40 (KALANIANAOLE)

Scale: HOR 1" = 20'-0" VER 1"= 10'-0"

1
S11.2 S11.2

For Existing Culvert
Section and Repair
Details See Sheet S1.2

Existing Culvert Undermining Schedule For Information Only, Measurements Taken at Time of Inspection		
Station	Undermining Width "W"	Undermining Depth "D"
Sta. 0+00 to 0+24	24"	3"
Sta. 0+40 to 0+65	36"	12"
Sta. 0+65 to 0+72	24"	4"
Sta. 0+72 to 1+10	18"	2"
Sta. 1+10 to 1+20	18"	5"
Sta. 1+20 to 2+15	18"	3"
Sta. 2+15 to 2+27	36"	2"

5/30/18 Revised Notes

DATE REVISION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Culvert Section, Milepost
2.40 (KAL. HWY) PID No.700691

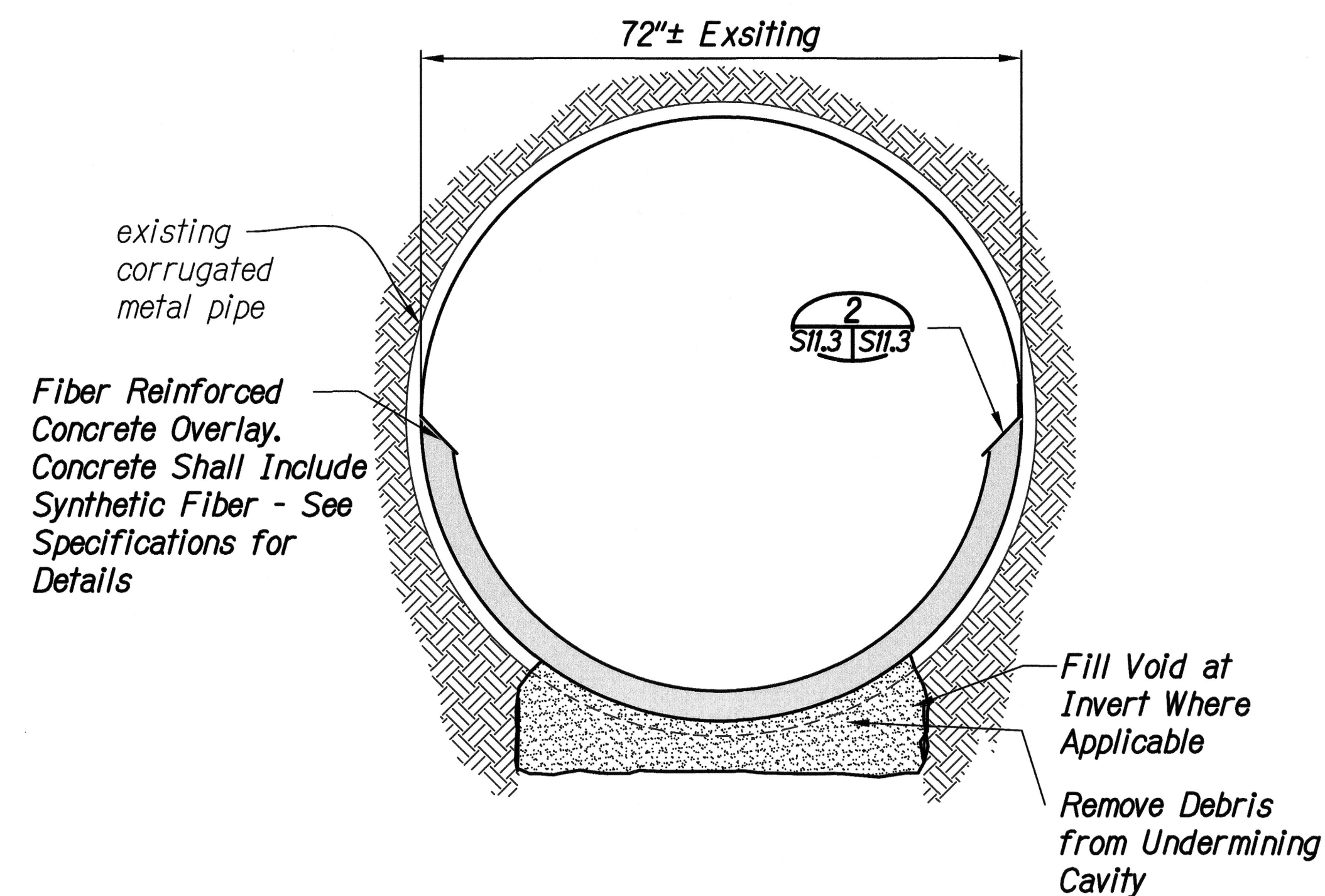
CULVERT REMEDIATION AT VARIOUS
LOCATIONS ON OAHU, PHASE 2

Project No. HWY-0-03-18

Scale: As Shown Date: May 2018

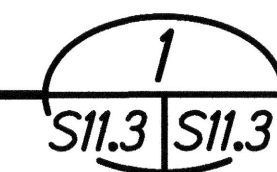
SHEET No. S11.2 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-18	2018	93	93

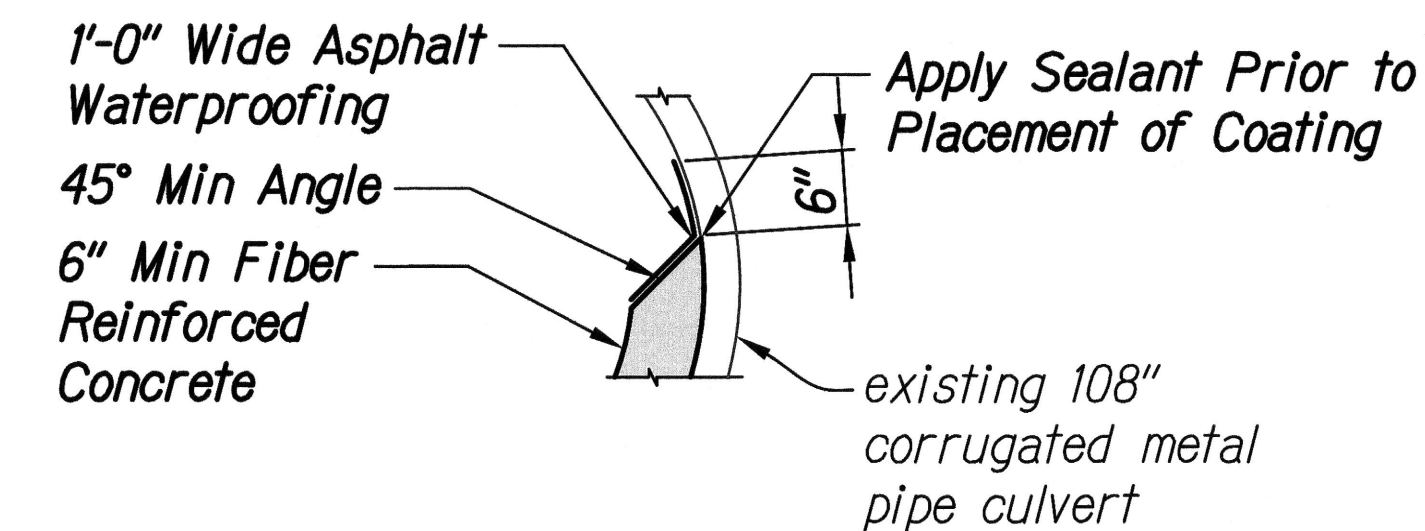


TYPICAL PIPE REPAIR SECTION

Scale: 1" = 2'-0"



Note:
Remove 3' high of debris from inlet prior to placement of new slab

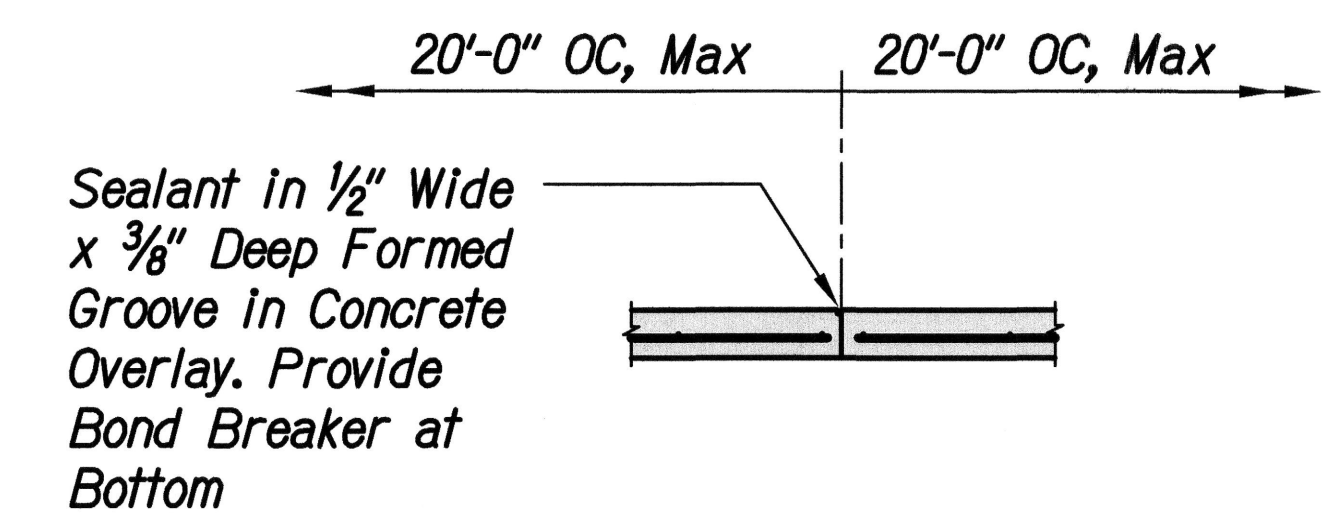
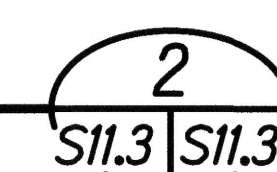


Notes:

1. Voids under the structural plate shall be filled with fiber reinforced concrete. The concrete shall be troweled to form a smooth, dense surface finish.
2. Apply two coats of one-foot wide asphalt waterproofing to both sides of the concrete lining and scores after the new concrete lining has cured. The finish coating shall be a continuous film free of voids, gaps or pin holes.

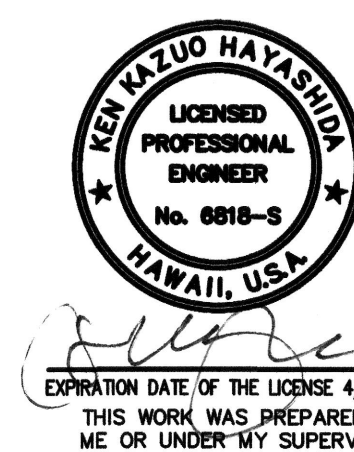
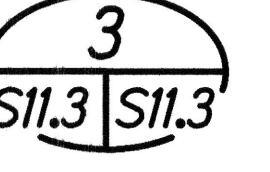
DETAIL

Scale: 1" = 2'-0"



EXPANSION JOINT DETAIL

Scale: 1" = 2'-0"



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Culvert Repair Details, M.P.
2.40 (KAL HWY) PID No.700691
CULVERT REMEDIATION AT VARIOUS
LOCATIONS ON OAHU, PHASE 2
Project No. HWY-0-03-18

Scale: As Shown Date: March 2018

SHEET No. **S11.3** OF **7** SHEETS