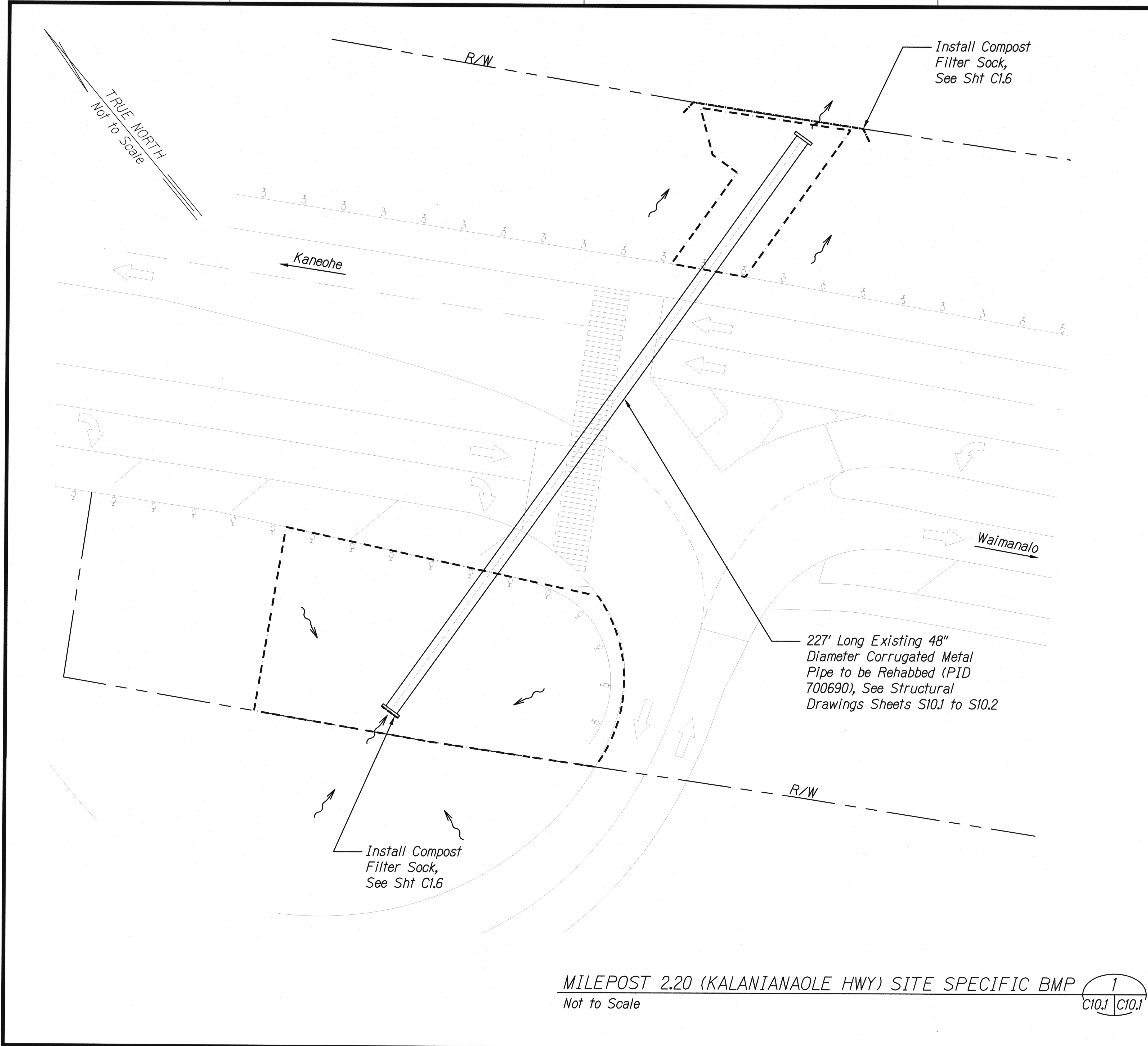


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-18	2018	81	93

- Notes:
- Proposed BMP plan is provided to show general intent. Contractor shall submit BMP plan for review and approval by the Engineer prior to performing the work.
 - BMP's shall be in place and functional prior to the start of construction work and in accordance with sheet C1.6 and manufacturer's recommendations, whichever is more stringent.



R.M. Okahashi
EXPIRATION DATE OF THE LICENSE 4/30/2018
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

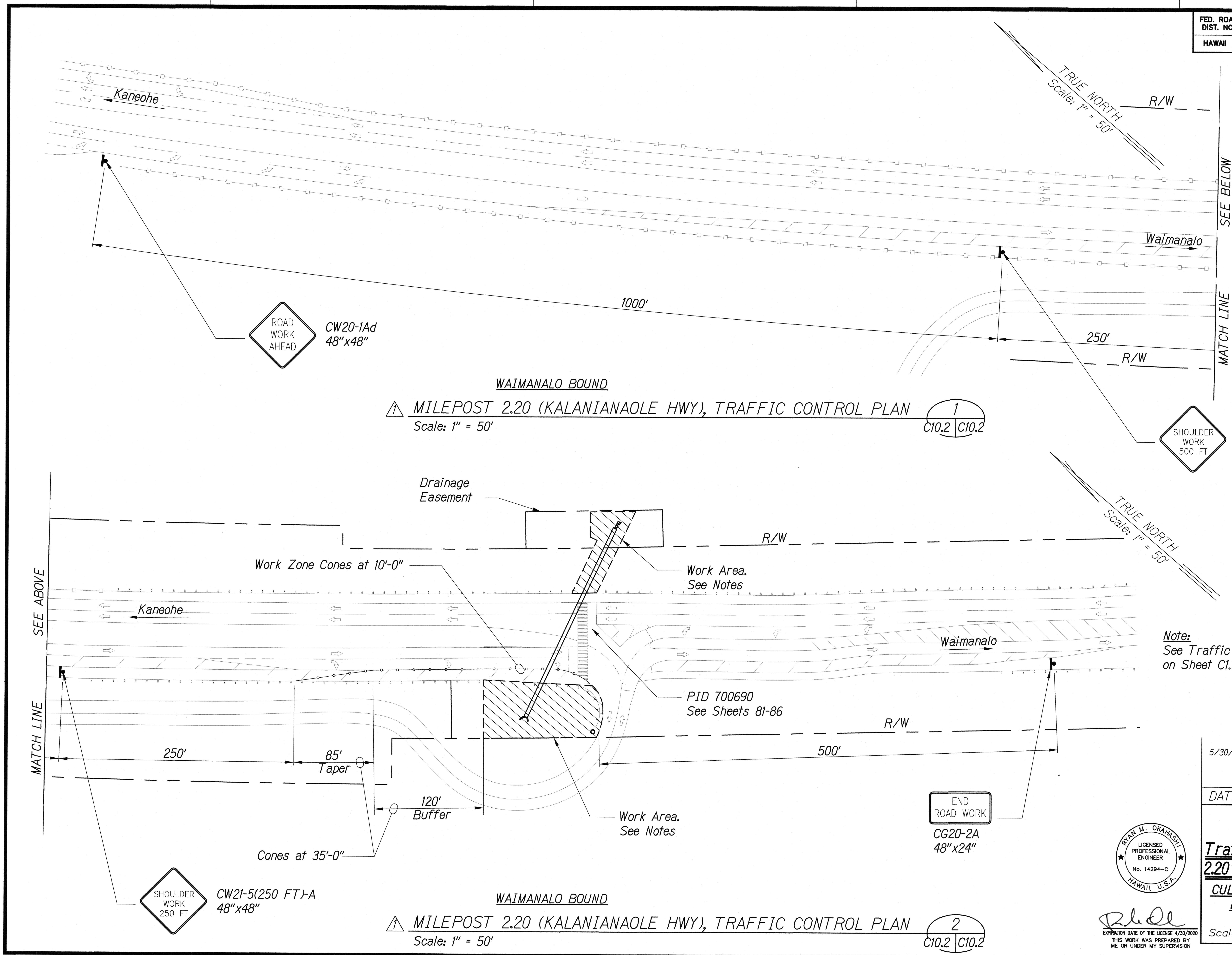
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Site Specific BMP, Milepost 2.20 (Kal. Highway) PID No. 700690
CULVERT REMEDIATION AT VARIOUS LOCATIONS ON OAHU, PHASE 2
Project No. HWY-0-03-18
Scale: As Shown Date: March 2018

SHEET No. **C10.1** OF **6** SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-03-18	2018	ADD. 82	93

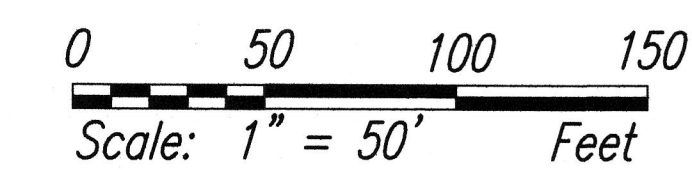
Notes:
 1. Work areas shown here are approximate. Contractor shall submit a traffic control plan reflecting the proposed work areas to the Engineer for review and approval prior to starting construction.



WAIMANALO BOUND
 MILEPOST 2.20 (KALANIANAOLE HWY), TRAFFIC CONTROL PLAN
 Scale: 1" = 50' 1
 C10.2 C10.2

WAIMANALO BOUND
 MILEPOST 2.20 (KALANIANAOLE HWY), TRAFFIC CONTROL PLAN
 Scale: 1" = 50' 2
 C10.2 C10.2

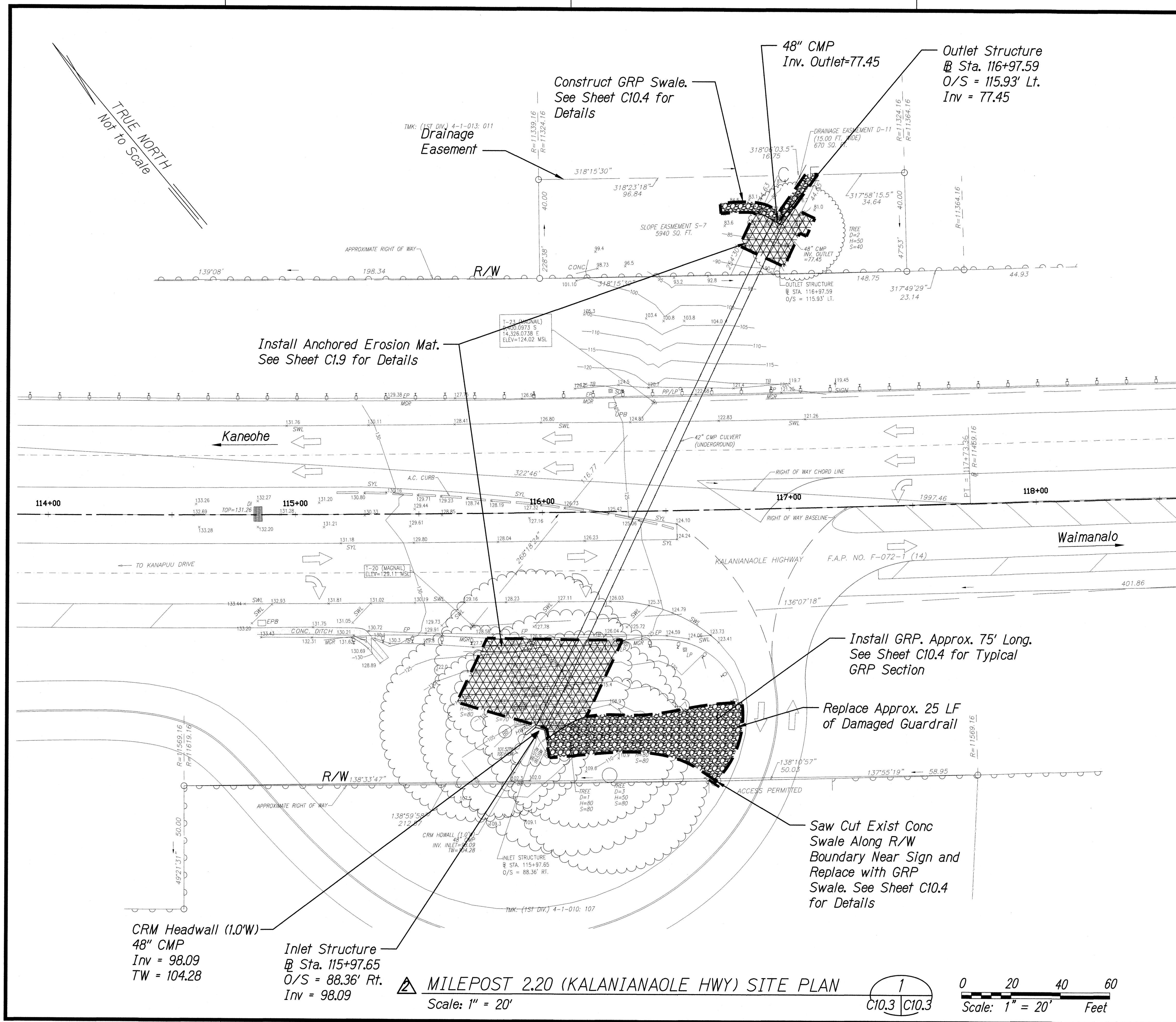
Note:
 See Traffic Control Notes and Table on Sheet C1.7



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 2.20 (Kal. Highway) PID No. 700690 CULVERT REMEDIATION AT VARIOUS LOCATIONS ON OAHU, PHASE 2 Project No. HWY-O-03-18 Scale: As Shown Date: May 2018	
SHEET No. C10.2 OF 6 SHEETS	

Ryan M. Okahashi
 LICENSED PROFESSIONAL ENGINEER
 No. 14294-C
 HAWAII, U.S.A.
 EXPIRATION DATE OF THE LICENSE 4/30/2020
 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. 83	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 Kalaniana'ole Highway MP 2.40 Site Plan on Sheet C11.3 for potential staging areas within the State Right of Way.
- Contractor shall protect all existing signs, highway lighting and conduits in the work area.

6/07/18 Revised Date and Plan with Topo.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**Site Plan, Milepost
2.20 (Kal. Highway) PID No. 700690**

**CULVERT REMEDIATION AT VARIOUS
LOCATIONS ON OAHU, PHASE 2**

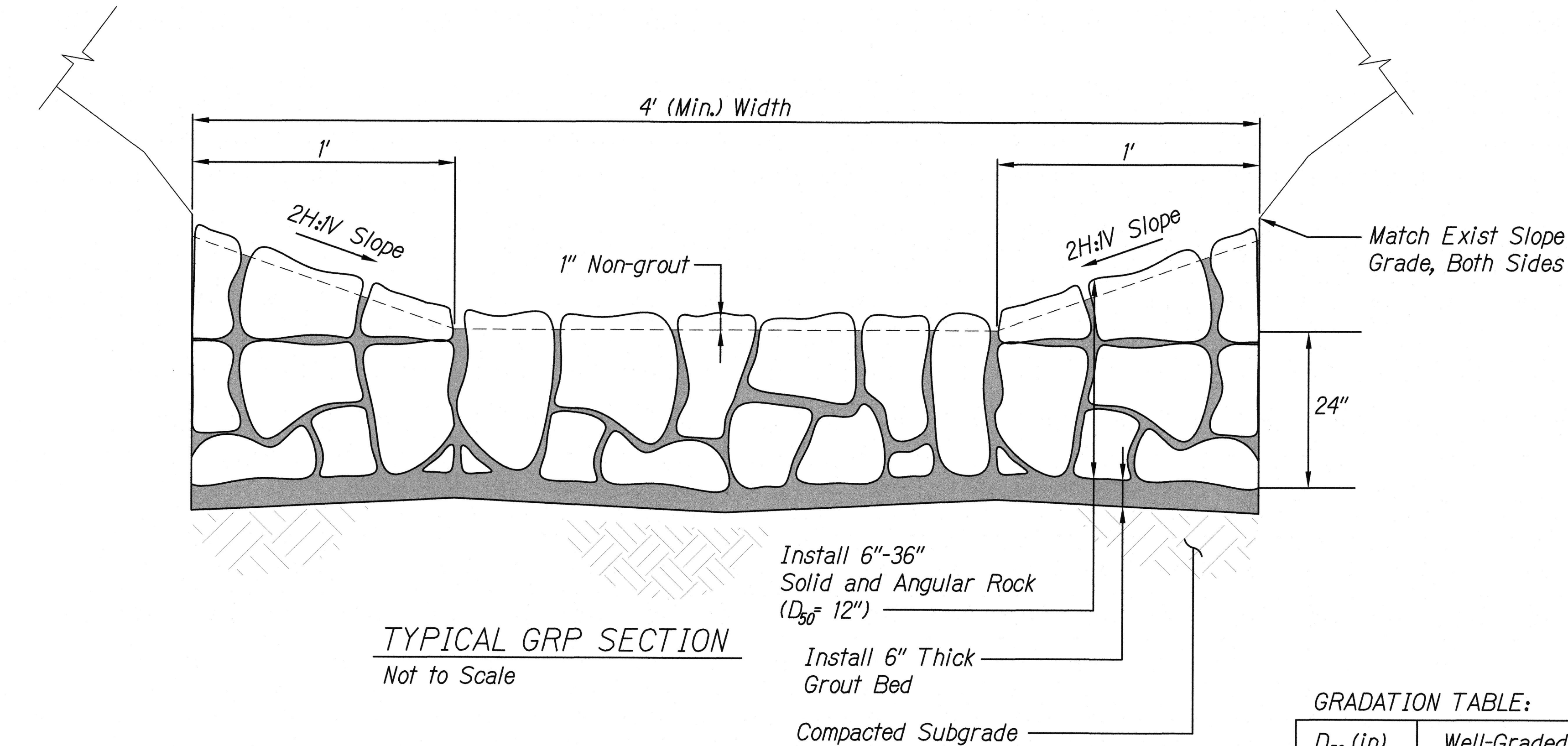
Project No. HWY-0-03-18

Scale: As Shown Date: June 2018

SHEET No. C10.3 OF 6 SHEETS

ADD. 83

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-03-18	2018	ADD. 84	93



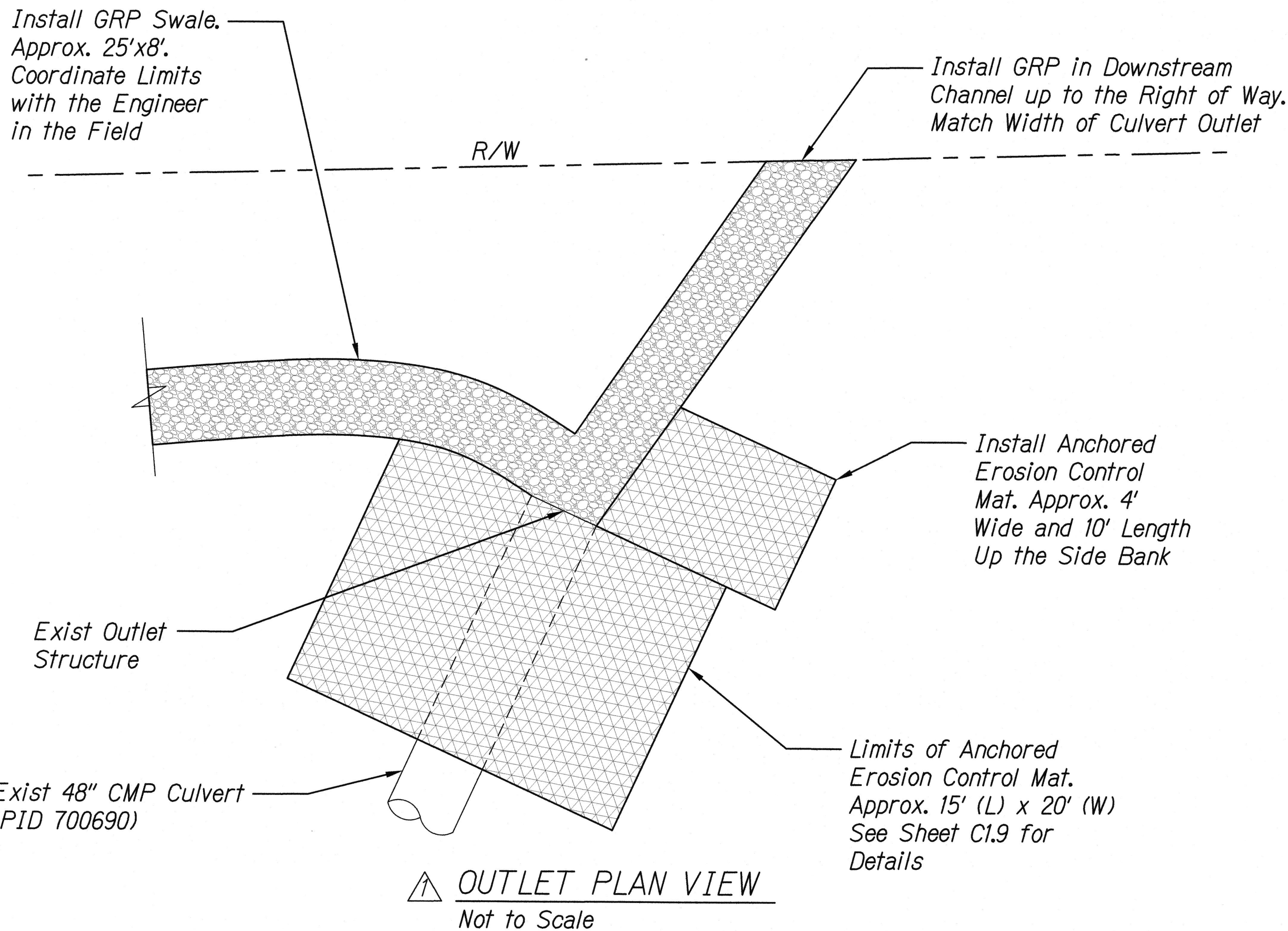
TYPICAL GRP SECTION
Not to Scale

- GRP Notes:
1. Prior to laying stones, Contractor shall notify the Engineer 3 working days in advance for inspection of foundation bed. Work shall commence only after foundation is acceptable to the Engineer.
 2. See gradation table this sheet as a guide.

GRADATION TABLE:

D ₅₀ (in)	Well-Graded from	Min. of 50% by weight larger than	Max. of 10% by weight smaller than
12	6" to 36"	30"	8"

Note: Gradation table is provided as a guide. Contractor shall submit the well-graded stone gradation to the Engineer for review and approval prior to laying of stone.

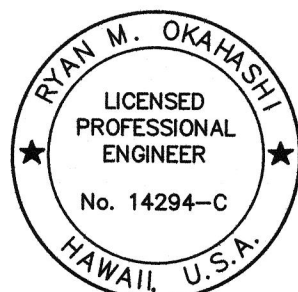


OUTLET PLAN VIEW
Not to Scale

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

MILEPOST 2.20 (KALANIANAOLE HWY) SECTION & DETAIL
Not to Scale

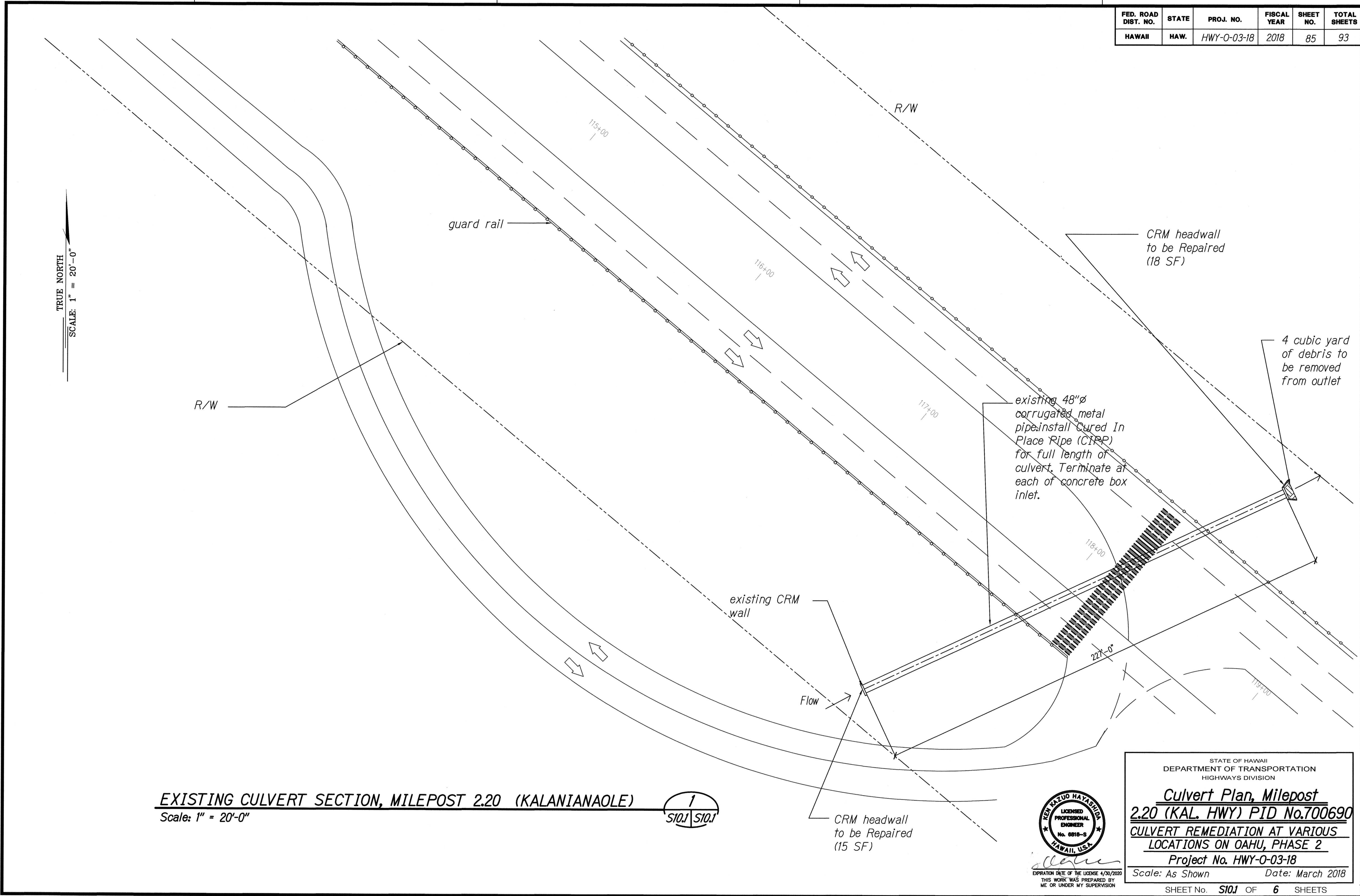
1
C10.4 C10.4



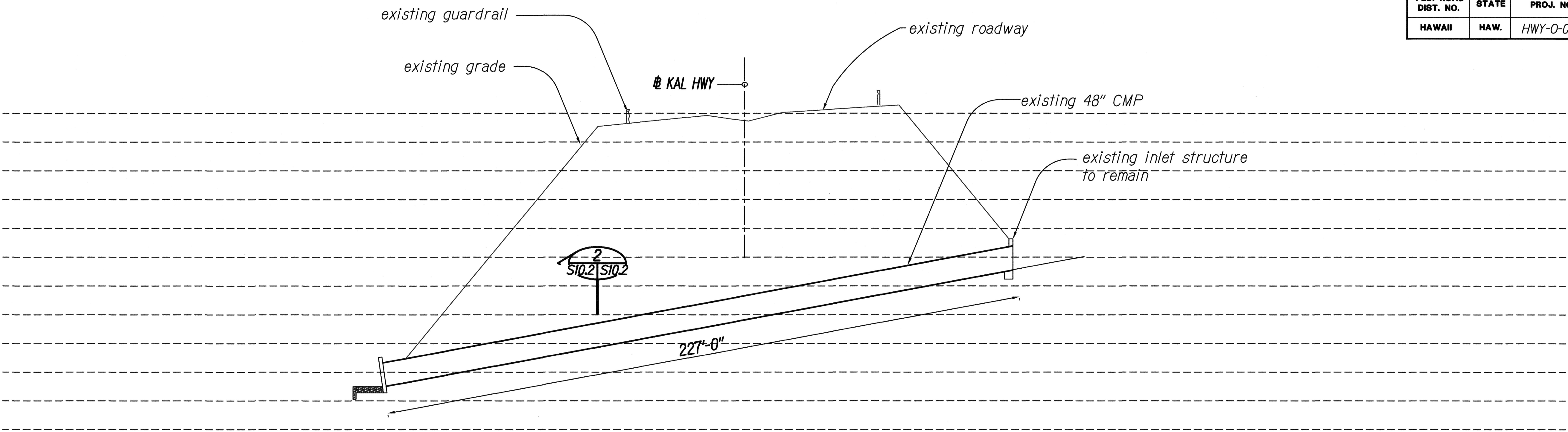
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

5/30/18	Revised Date and Detail.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION Section & Detail, Milepost 2.20 (Kal. Highway) PID No. 700690 CULVERT REMEDIATION AT VARIOUS LOCATIONS ON OAHU, PHASE 2 Project No. HWY-O-03-18 Scale: As Shown Date: May 2018	
SHEET No. C10.4 OF 6 SHEETS	

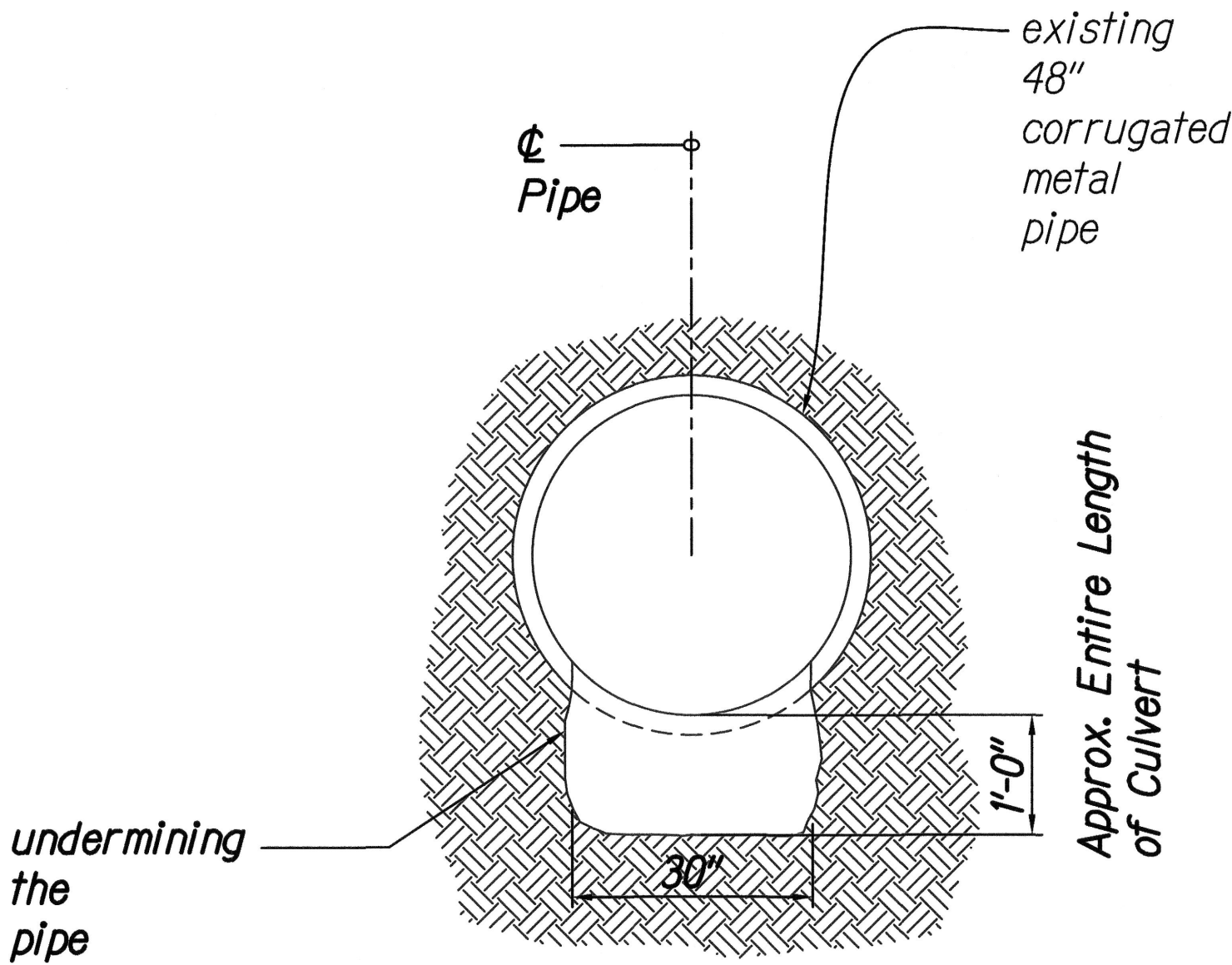
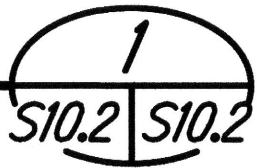
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-03-18	2018	85	93



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-03-18	2018	86	93

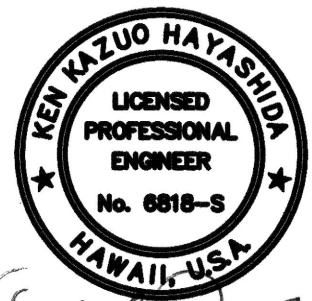
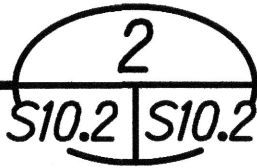


EXISTING CULVERT SECTION, MILEPOST 2.20 (KAL. HWY)
 Scale: HOR 1" = 20'-0" VERT 1"=10'-0"



For Repair Details
 See Sheet S1.2

EXISTING CULVERT SECTION
 Scale: 1" = 2'-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 Sections, Milepost
2.20 (KAL. HWY) PID No.700690**
**CULVERT REMEDIATION AT VARIOUS
LOCATIONS ON OAHU, PHASE 2**
Project No. HWY-O-03-18
Scale: As Shown Date: March 2018

SHEET No. **S10.2** OF **6** SHEETS