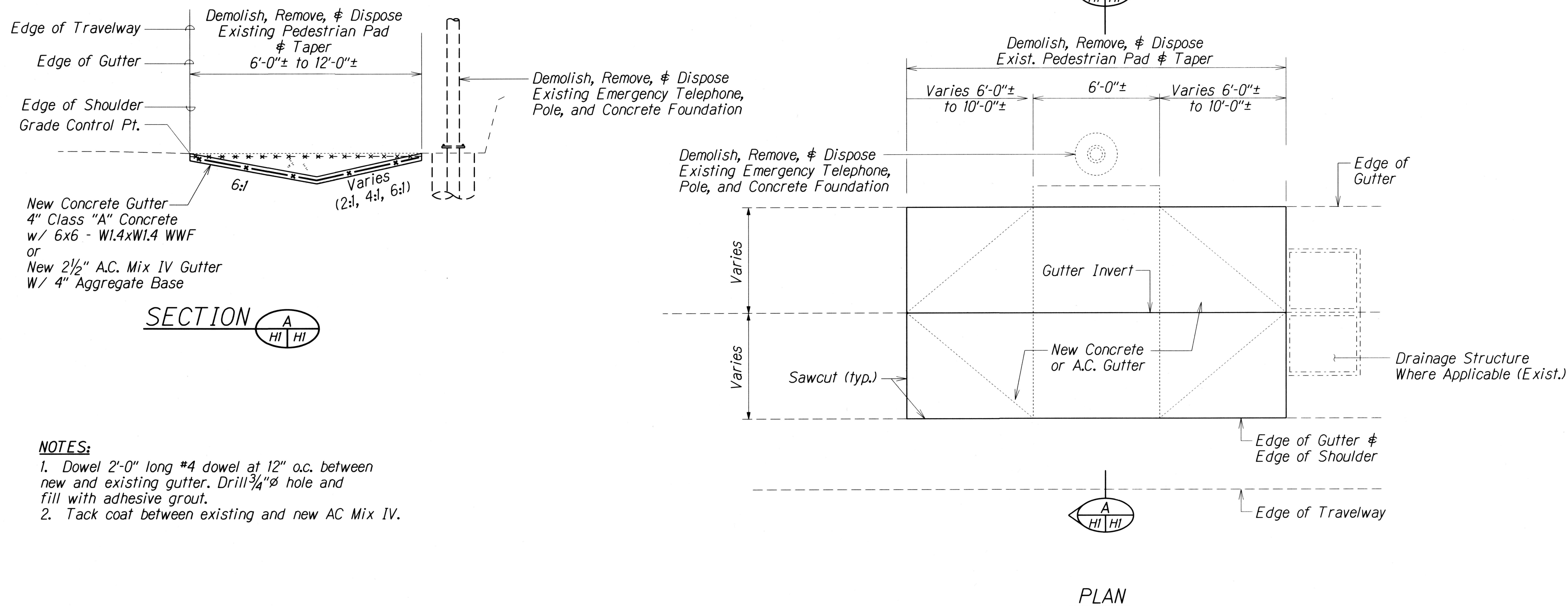


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-STP-0300(106)	2017	122	193



NOTES:

1. Dowel 2'-0" long #4 dowel at 12" o.c. between new and existing gutter. Drill ¾" hole and fill with adhesive grout.
2. Tack coat between existing and new AC Mix IV.

DEMOLITION OF EXISTING CONCRETE PEDESTRIAN PAD AND CONSTRUCT 6 TO 12 FEET WIDE CONCRETE GUTTER AT # STA. 393+00± IB, RT. # STA. 393+00± OB. LT., # STA. 297+86± LT., # STA 278+00± LT., # STA. 211+75± OB. LT., AND # STA. 110+00± LT.

Note: Gutter at Sta. 110+00 ± Lt. shall be paid for under Type 7(61218) Gutter

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
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CHECKED BY	
DATE	

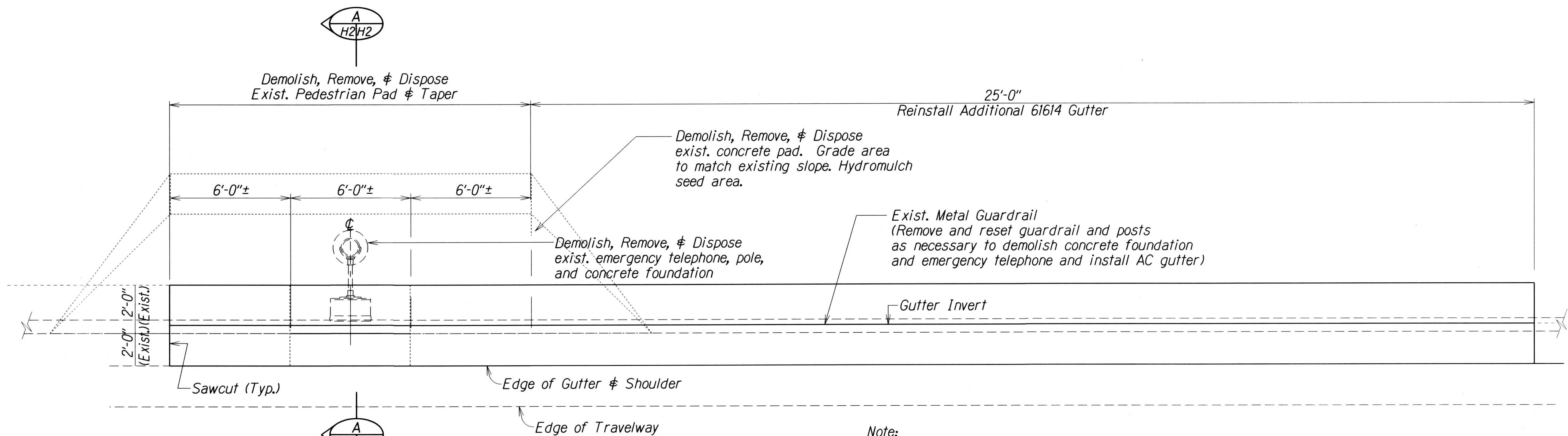
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL
INTERSTATE ROUTE H-2
AND MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal Aid Project No. 1M-STP-0300(106)

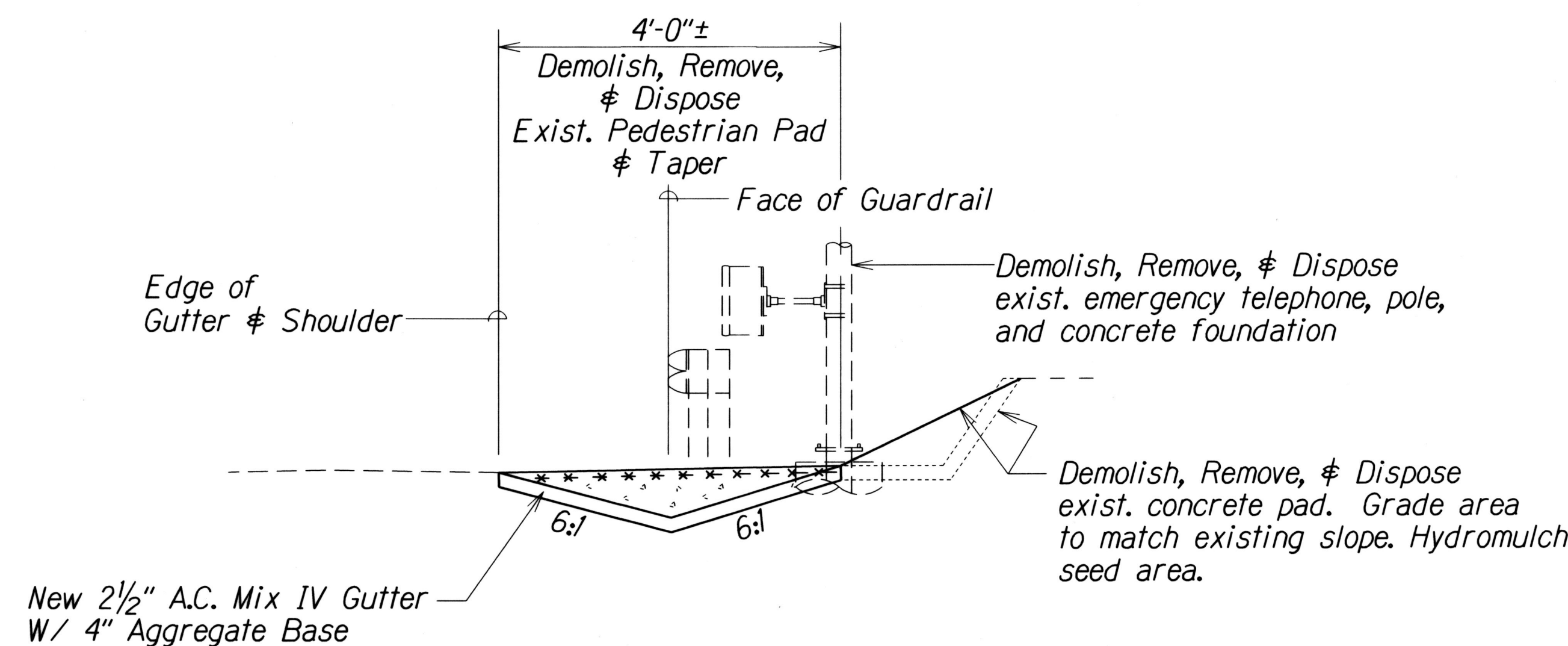
Scale: Not to Scale Date: Feb., 2017

SHEET No. HI OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2017	123	193



Note:
 1) Tack Coat between existing and new AC Mix IV.
 2) Removing and resetting guardrail and posts shall not be paid for separately, but shall be considered incidental to the 4 foot wide asphalt gutter.
 3) Hydromulch seed and grading to match existing shall not be paid for separately?



**DEMOLITION OF EXISTING PEDESTRIAN PAD
AND INSTALL 4 FT. WIDE ASPHALT GUTTER
AT STA. 57+27± RT.**

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

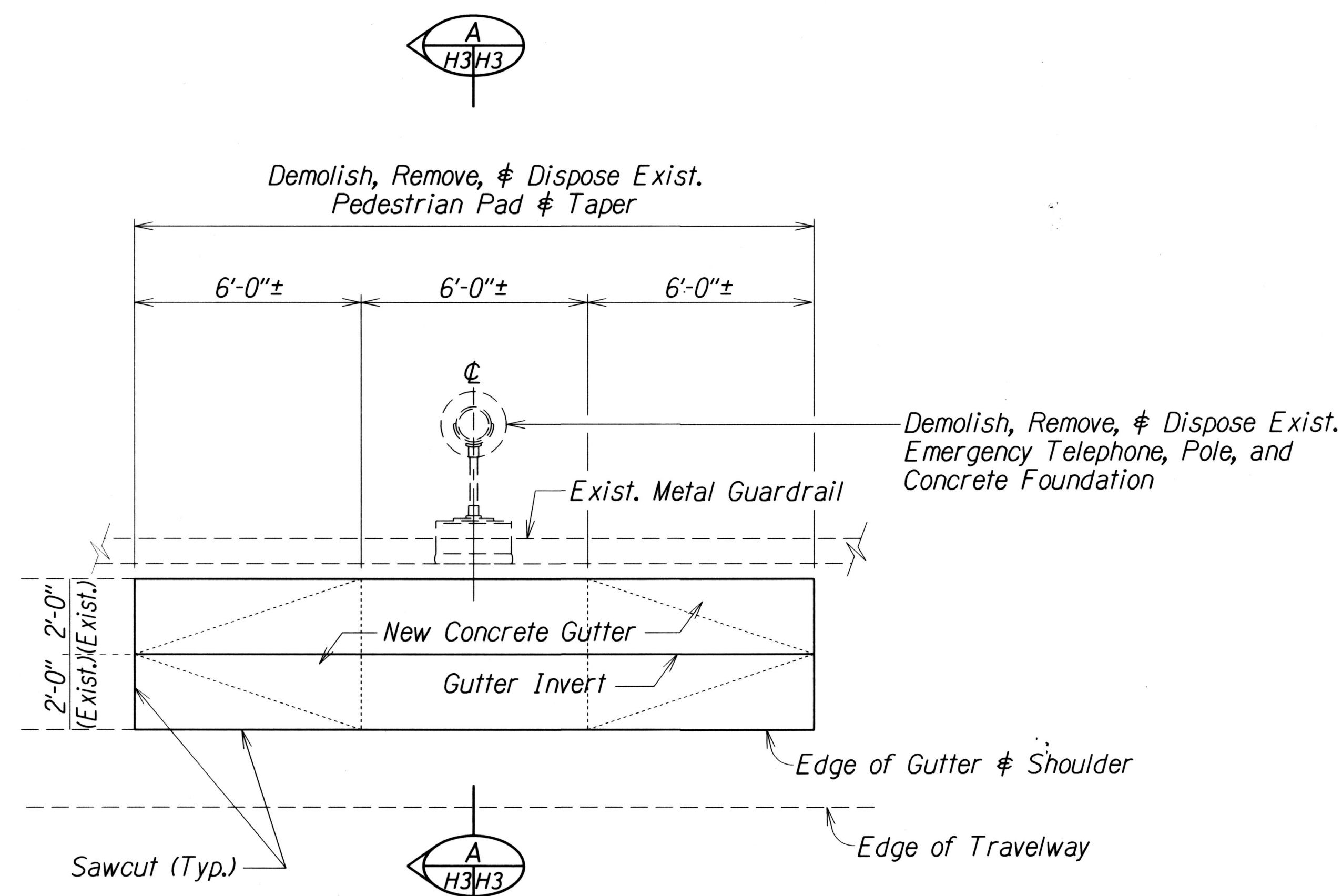
DRAINAGE DETAIL
INTERSTATE ROUTE H-2
AND MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal Aid Project No. IM-STP-0300(106)

Scale: Not to Scale
Date: Feb., 2017

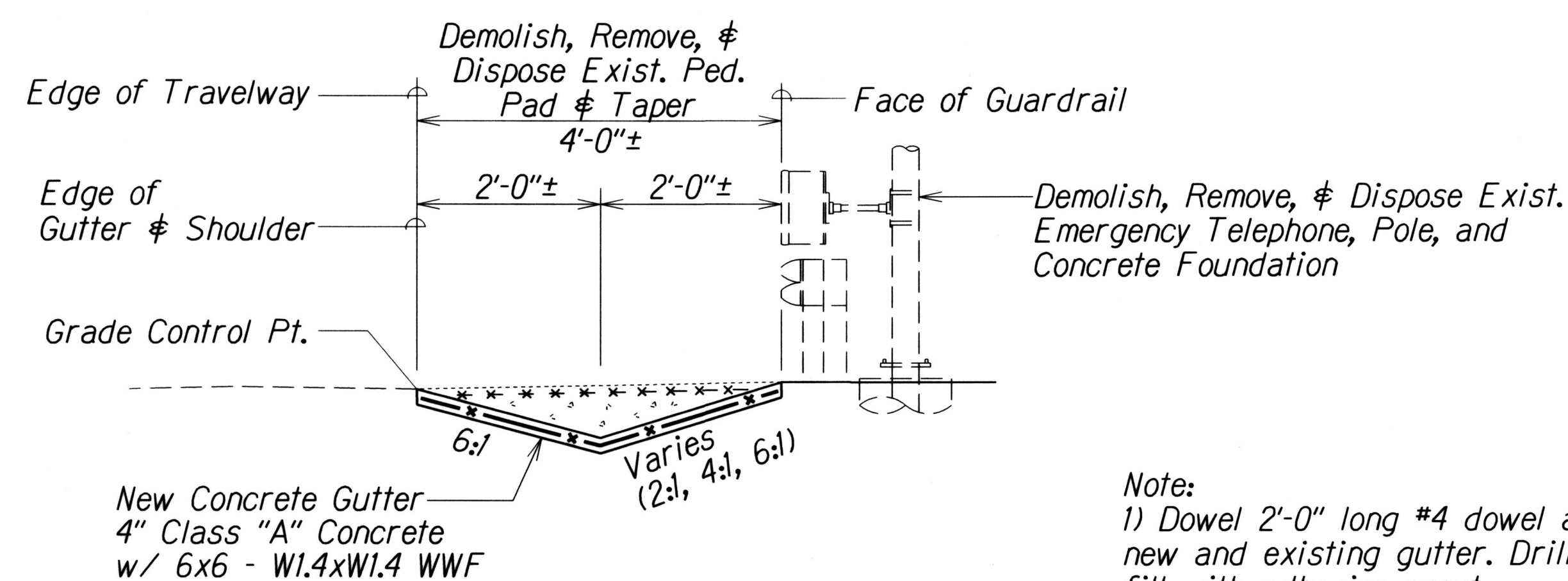
SHEET No. H2 OF 13 SHEETS

DESIGNED BY	DATE
DRAWN BY	
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NOTED BY	
QUANTITIES BY	
REVISIONS	
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2017	124	193



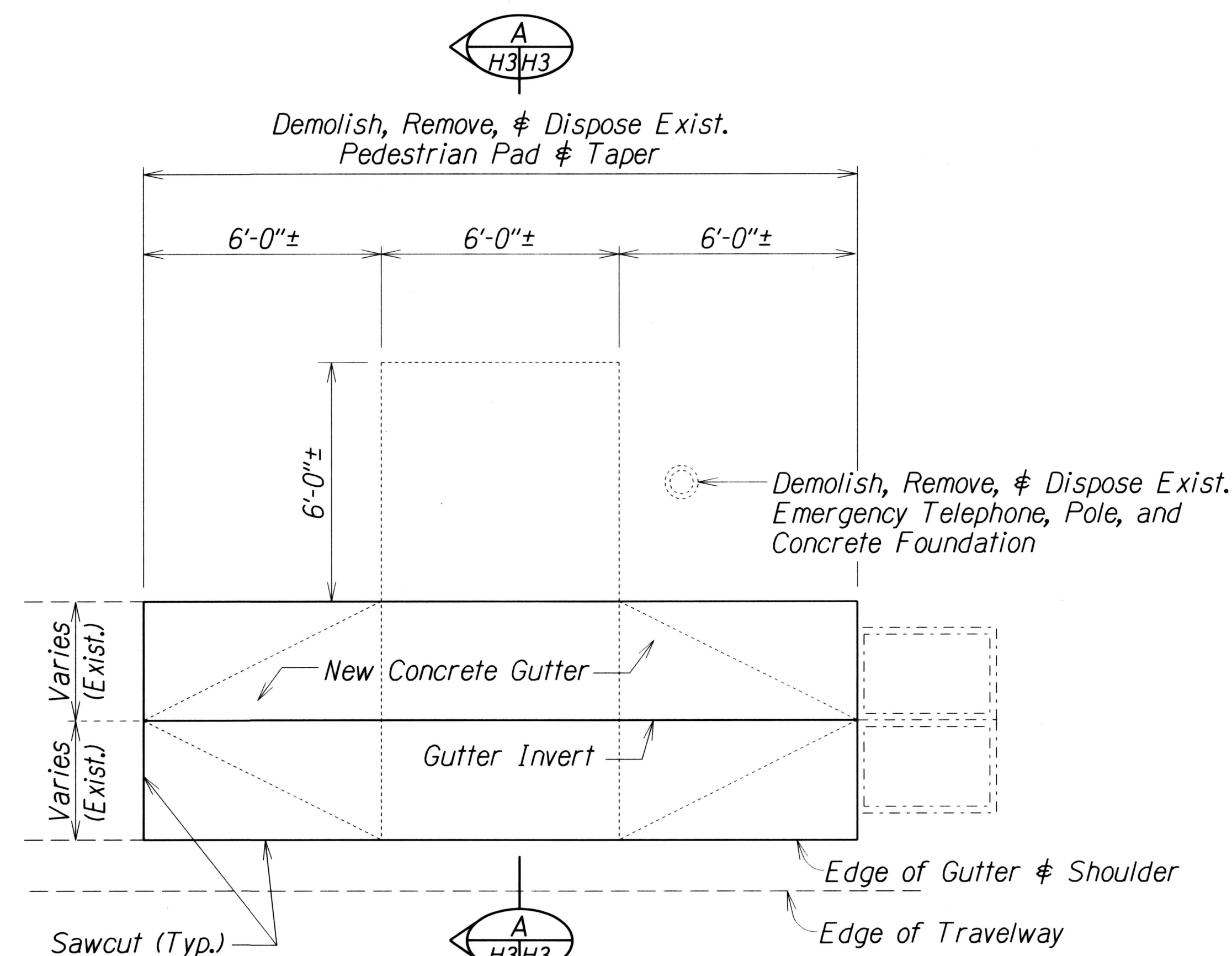
PLAN



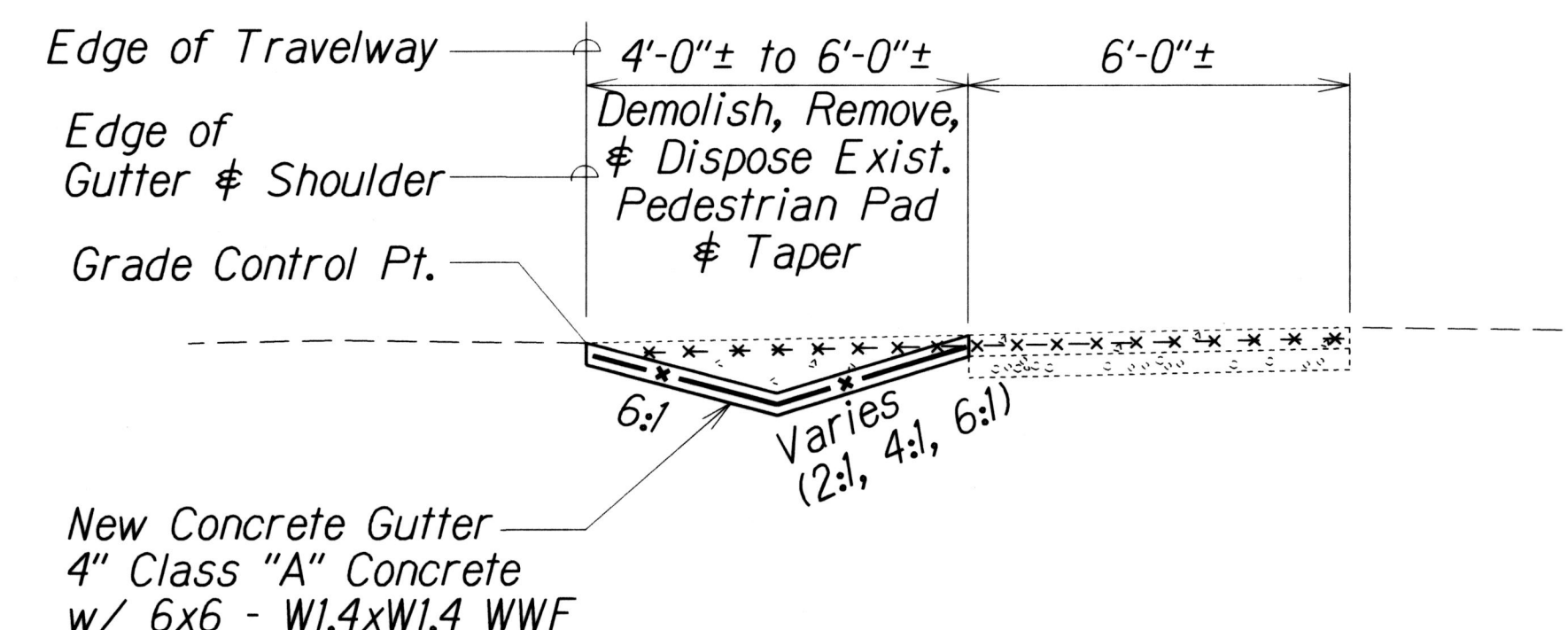
SECTION A H3/H3

CONCRETE PEDESTRIAN PAD WITH ACCESSIBLE RAMP OVER EXISTING 4 FT. WIDE CONCRETE GUTTER AT H-2 TO H-1 RAMP @ STA. 496+20± LT.

Note:
1) Dowel 2'-0" long #4 dowel at 12" o.c. between new and existing gutter. Drill 3/4"Ø hole and fill with adhesive grout.



PLAN



SECTION A H3/H3

CONCRETE PEDESTRIAN PAD WITH ACCESSIBLE RAMP OVER EXISTING 4 TO 6 FT. WIDE CONCRETE GUTTER AT @ STA. 275+50± RT., @ STA. 192+00± RT., AND @ STA. 159+50± RT.

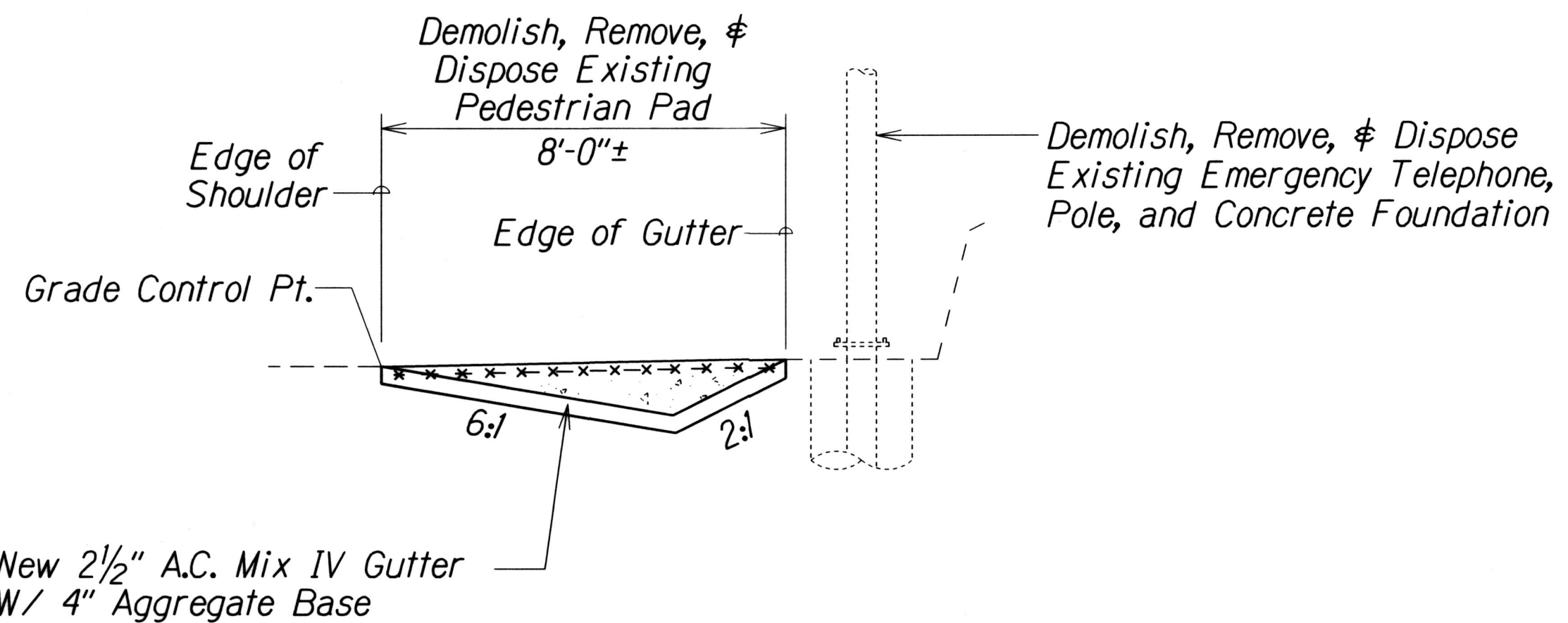
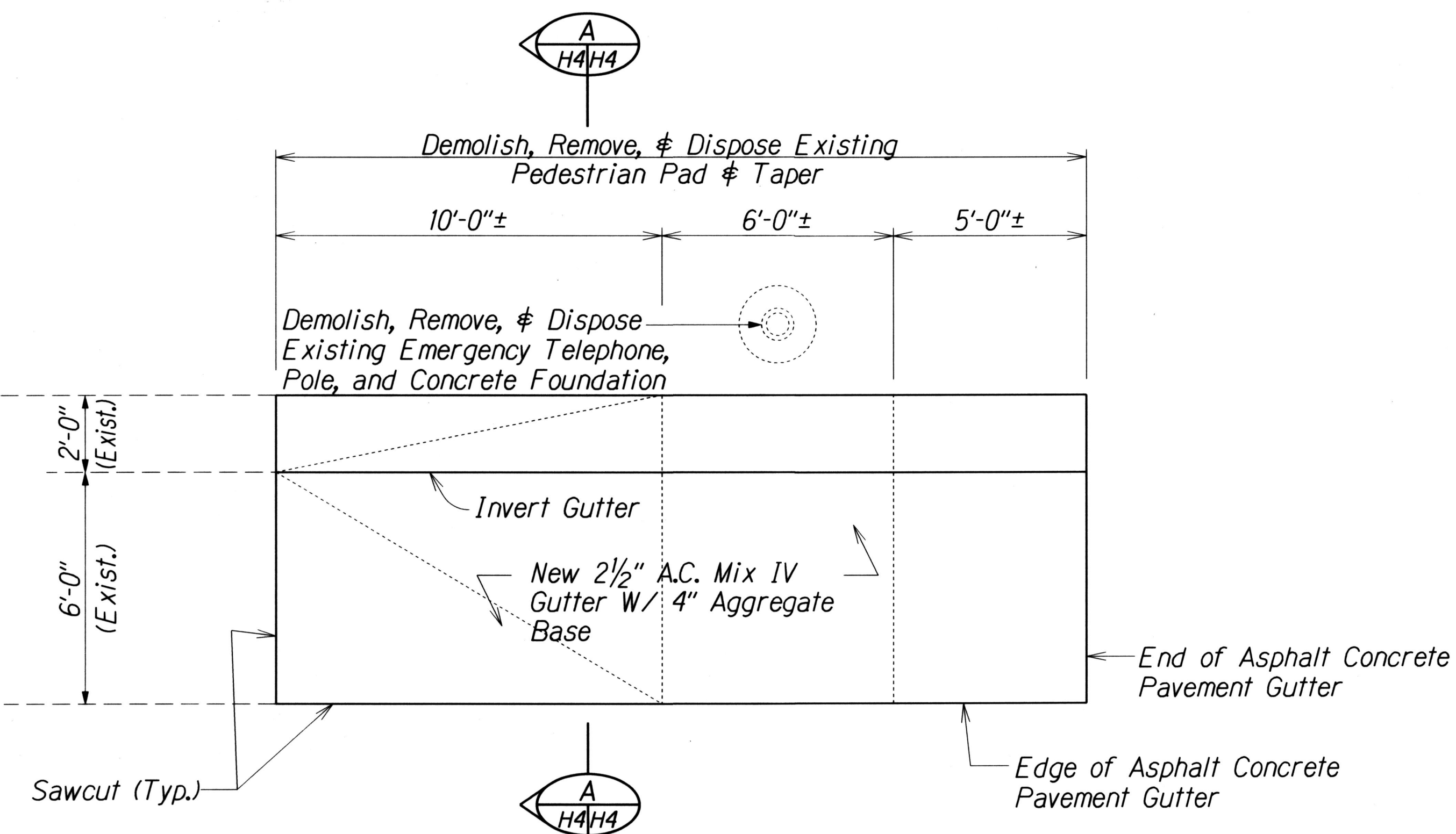
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL
INTERSTATE ROUTE H-2
AND MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal Aid Project No. IM-STP-0300(106)

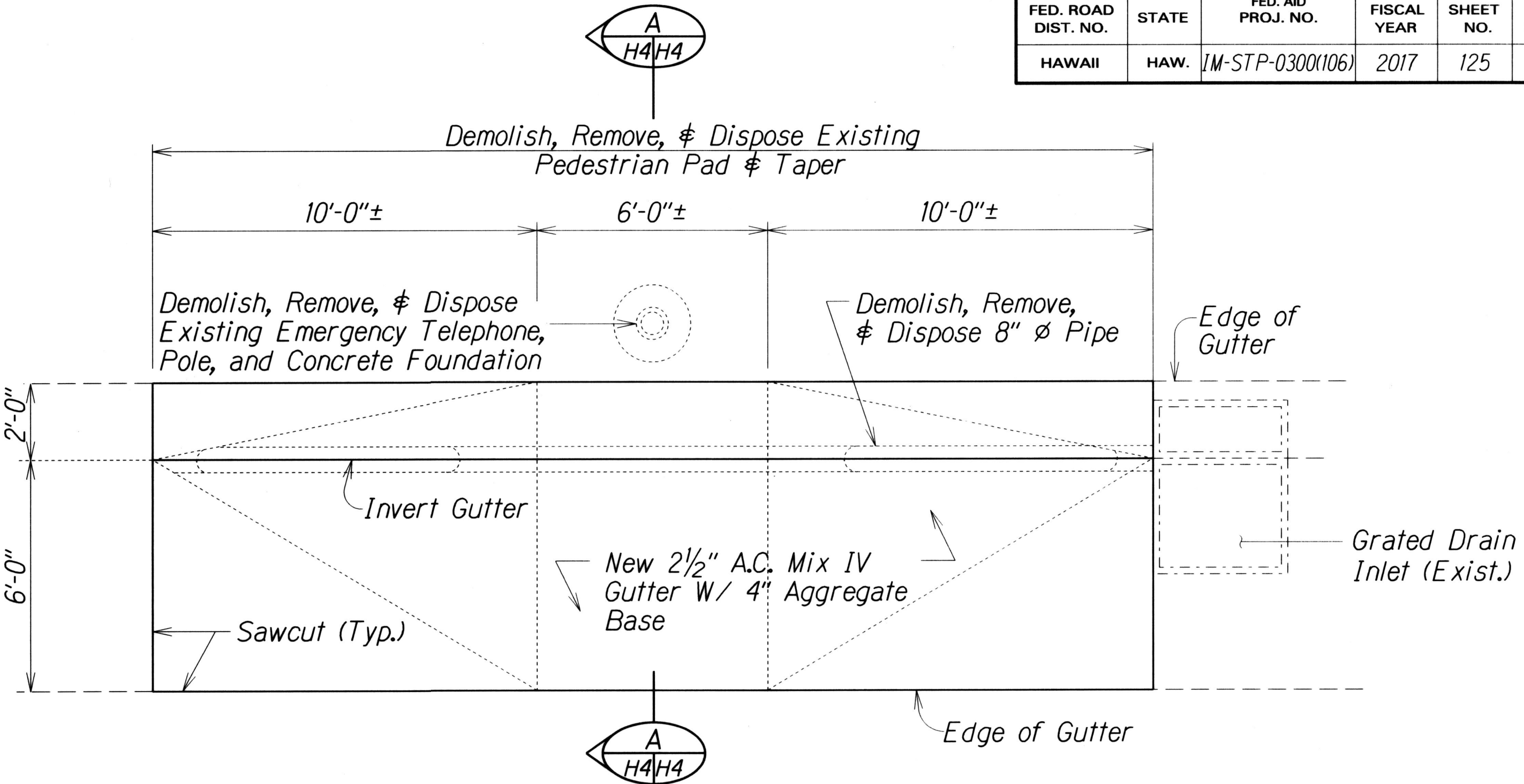
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SHEET No. H3 OF 13 SHEETS

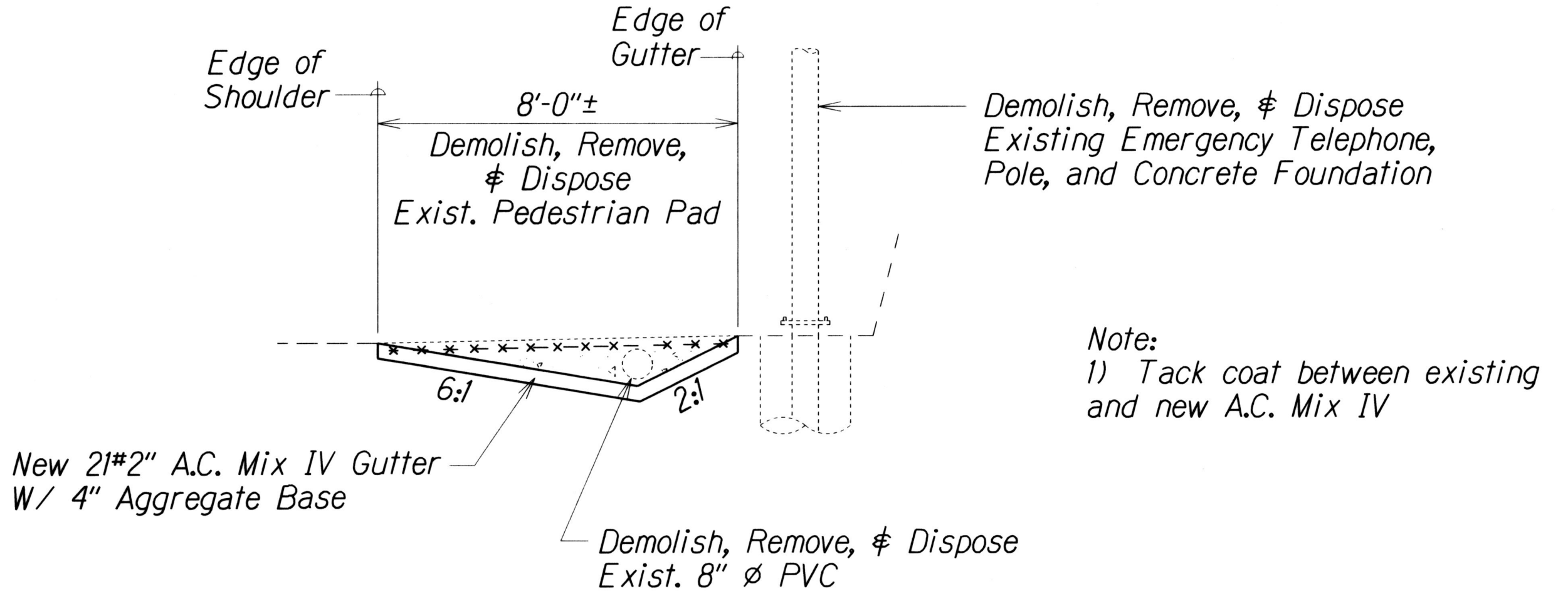
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2017	125	193



Note:
1) Tack coat between existing and new A.C. Mix IV



PLAN



Note:
1) Tack coat between existing and new A.C. Mix IV

SECTION

DEMOLITION OF CONCRETE PEDESTRIAN PAD AND CONSTRUCTION OF 8 FT. WIDE ASPHALT GUTTER AT STA. 110+00± RT.

DEMOLITION OF CONCRETE PEDESTRIAN PAD WITH ACCESSIBLE RAMP AND CONSTRUCT 8 FT. ASPHALT CONCRETE PAVEMENT GUTTER AT STA. 86+00± RT.

DESIGNED BY	DATE
TRACED BY	
NOTED BY	
CHECKED BY	
IN CHARGE	

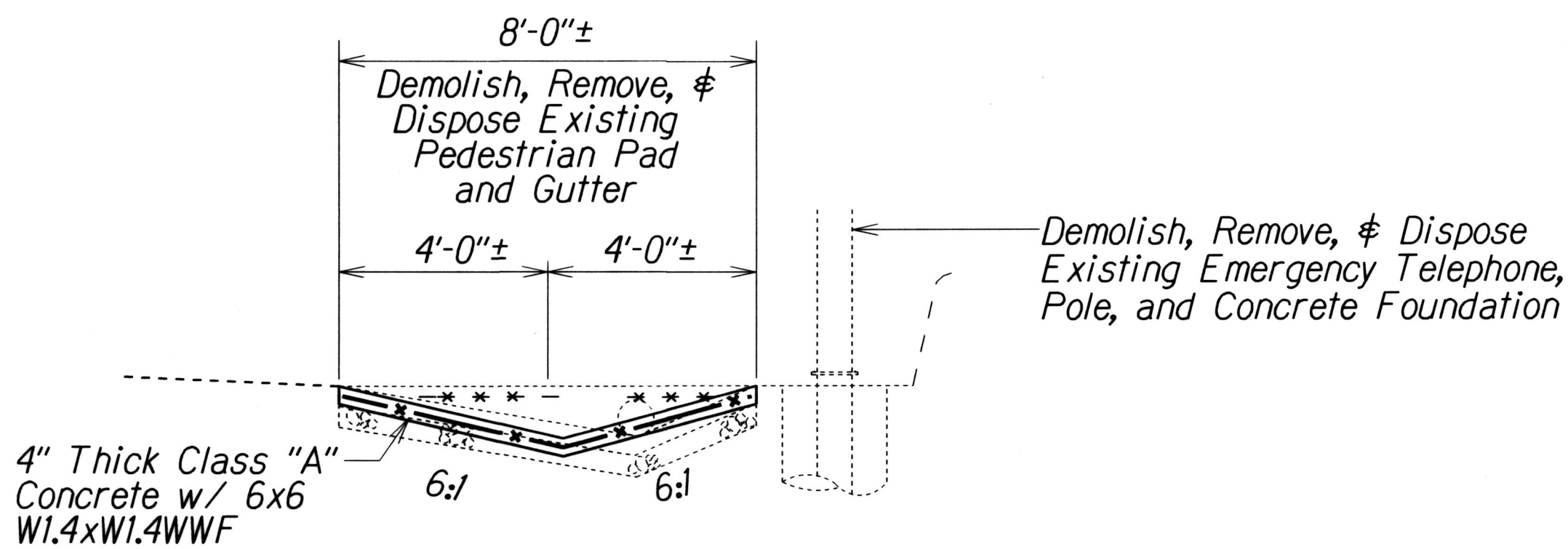
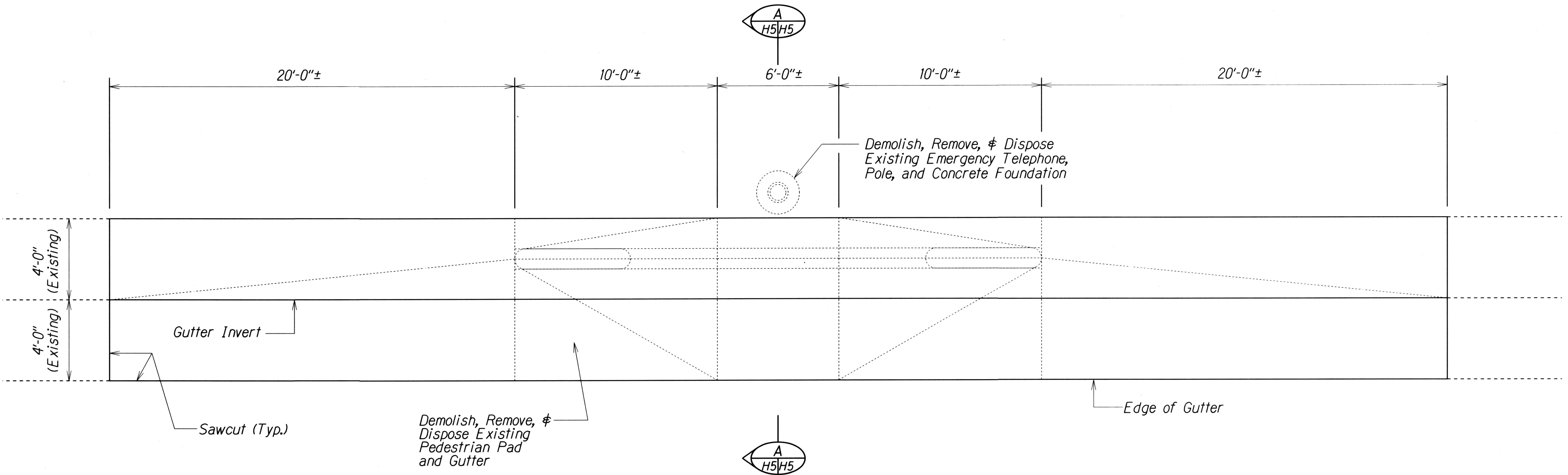
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL
INTERSTATE ROUTE H-2
AND MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal Aid Project No. IM-STP-0300(106)

Scale: Not to Scale
Date: Feb, 2017

SHEET No. H4 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-STP-0300(106)	2017	126	193



SECTION A
H5/H5

NOTES:

1. Dowel 2'-0" long #4 dowel at 12" o.c. between new and existing gutter. Drill $\frac{3}{4}$ " ϕ hole and fill with adhesive grout.

**DEMOLITION OF EXISTING CONCRETE PEDESTRIAN PAD
AND CONSTRUCT NEW 8 FT. WIDE CONCRETE GUTTER
AT STA. 446+80± OB. LT.**

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

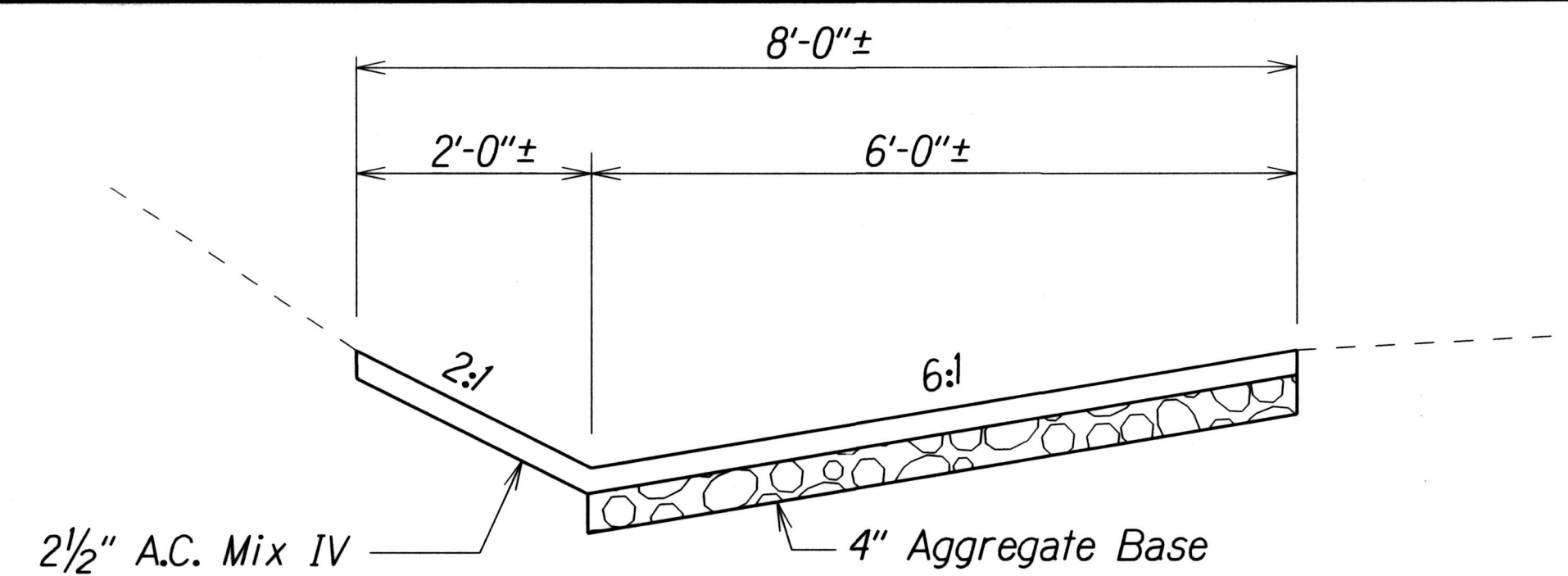
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL
INTERSTATE ROUTE H-2
AND MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal Aid Project No. 1M-STP-0300(106)

Scale: Not to Scale
Date: Feb., 2017

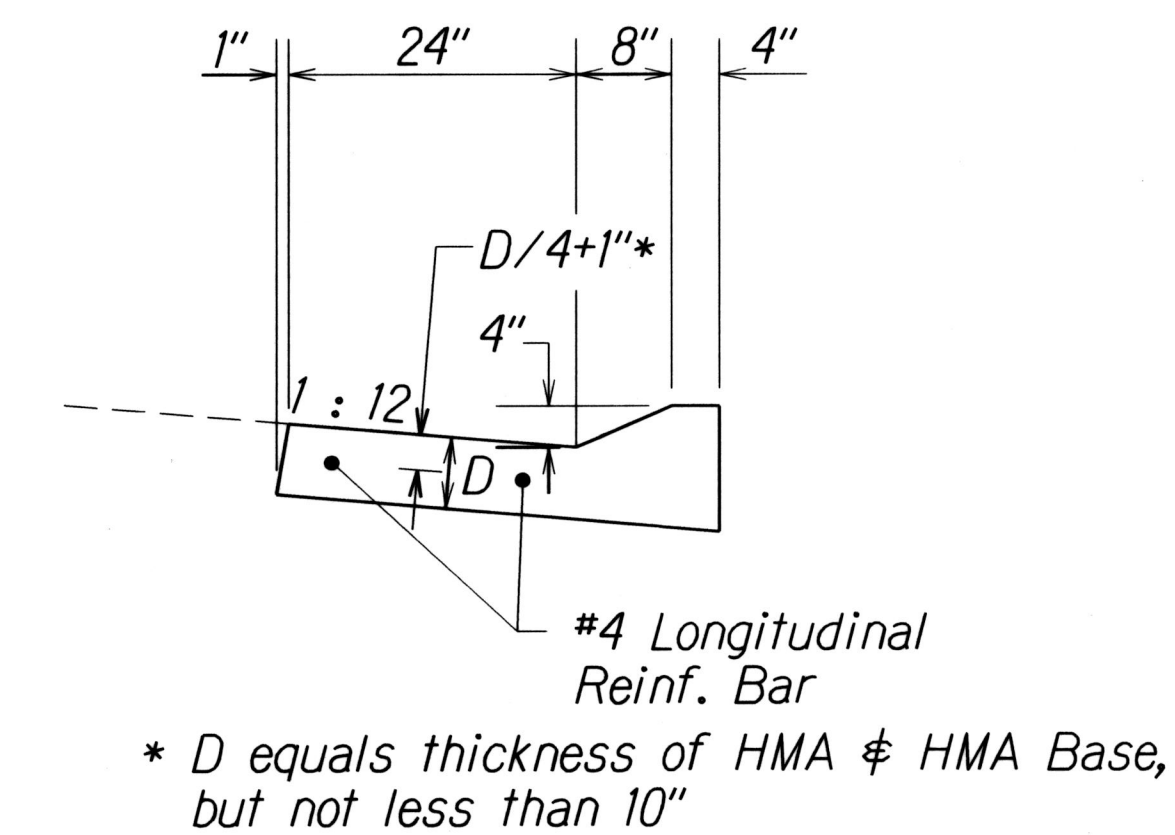
SHEET No. H5 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2017	128	193

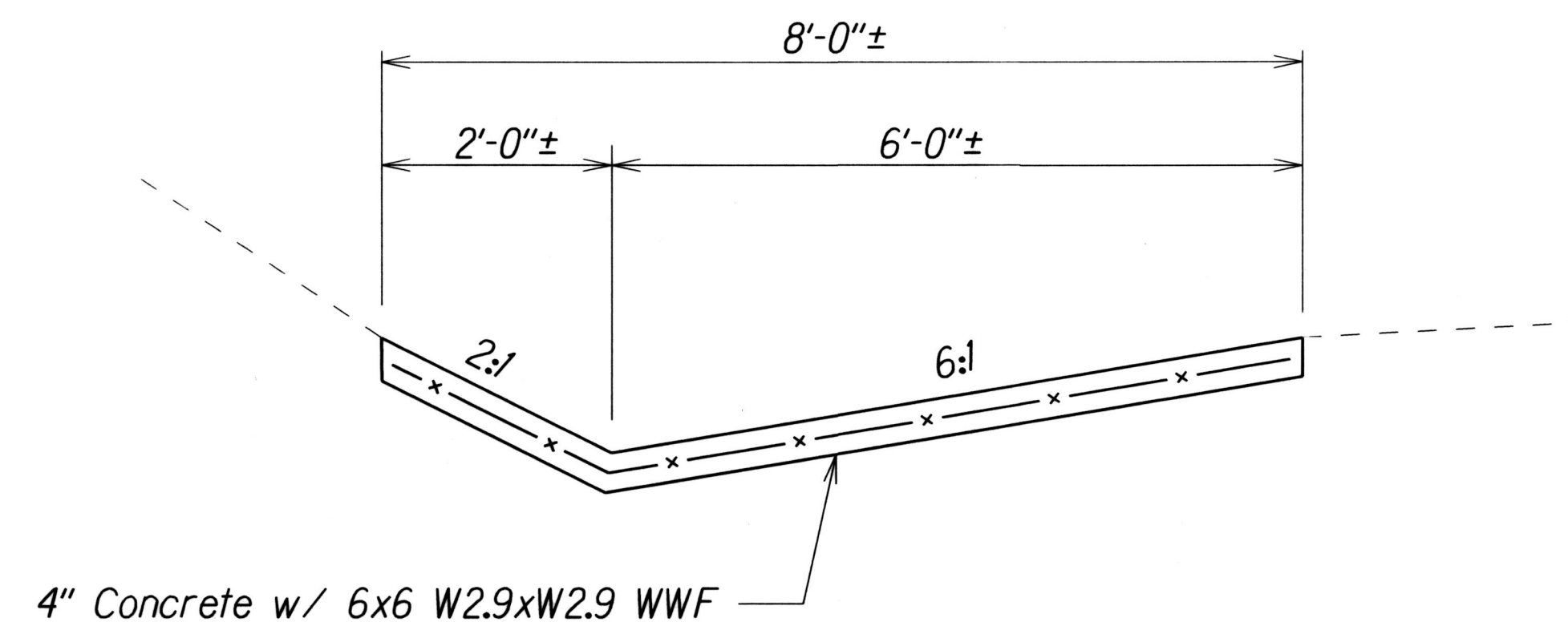


TYPE 7(61218) GUTTER

H2 OB @ STA. 454+80± TO @ STA. 457+44± LT.
STRUCTURE #16 @ STA. 502+49± LT. TO STRUCTURE #16 @ STA. 504+70± LT.

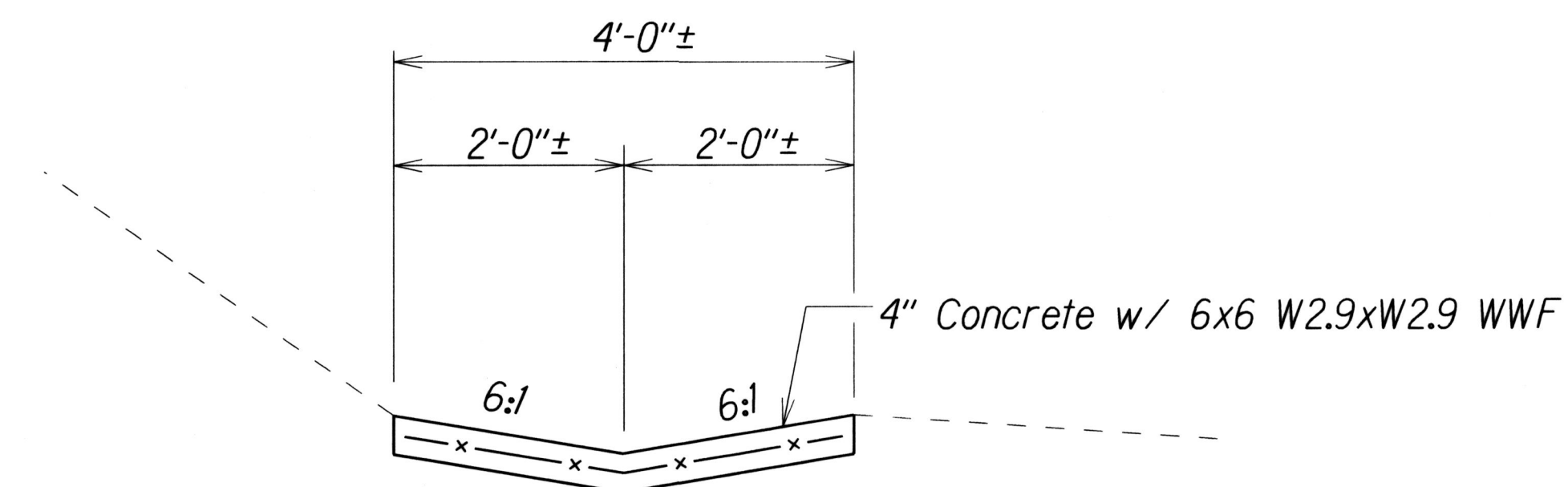


CURB & GUTTER, TYPE 2GG



TYPE 2(61218) GUTTER

STRUCTURE #6 @ STA. 473+00± TO @ STA. 475+87.5± LT.



TYPE 2(61614) GUTTER

STRUCTURE #15 @ STA. 456+51± TO @ STA. 457+66± LT.
STRUCTURE #5 @ STA. 470+59± TO @ STA. 470+69± LT.

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

Note: Demolition, Removal, and Disposal of existing gutter shall not be paid for separately, but shall be considered incidental to the corresponding gutter pay item.

GUTTER DETAILS

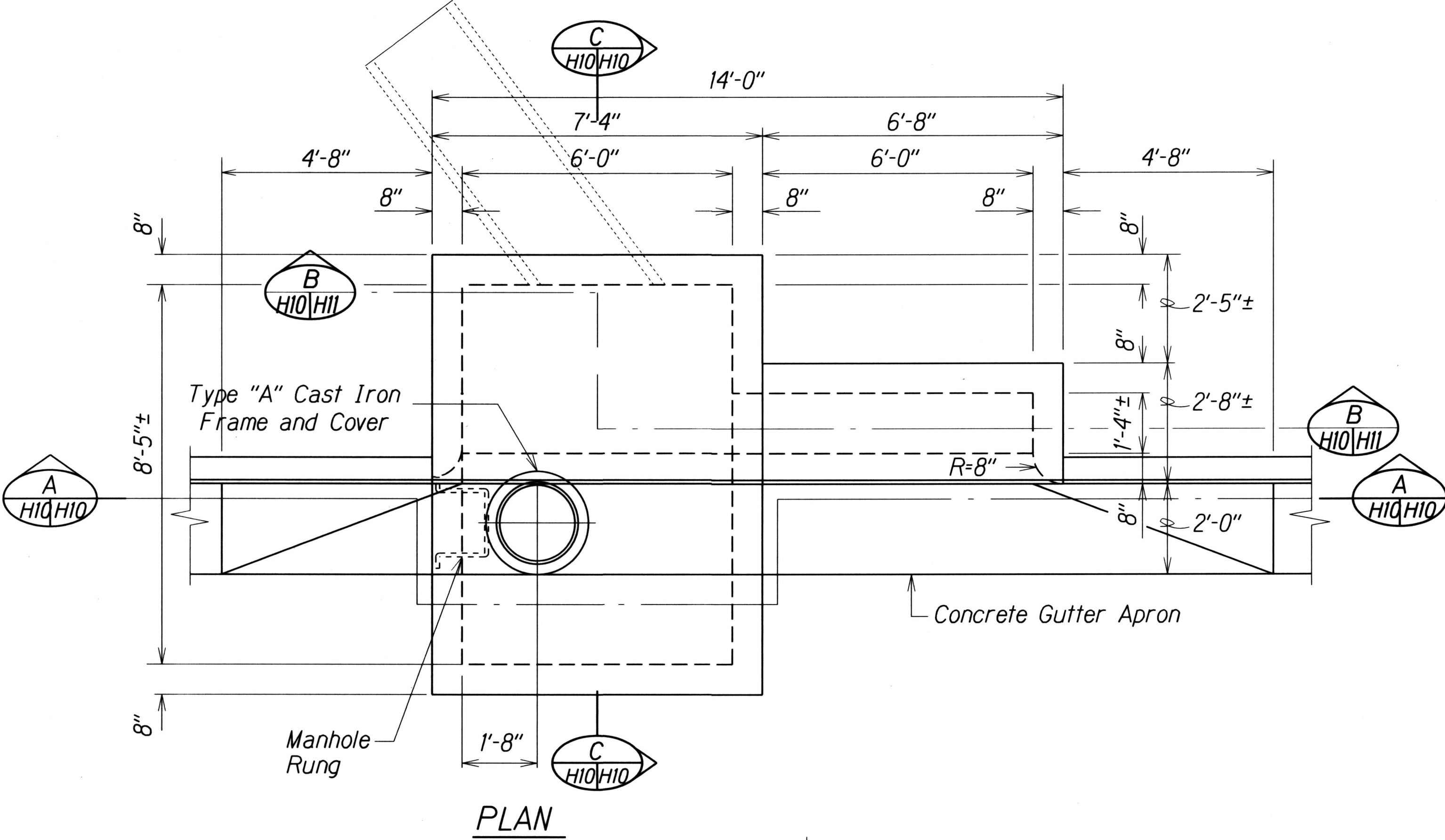
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL
INTERSTATE ROUTE H-2
AND MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal Aid Project No. IM-STP-0300(106)

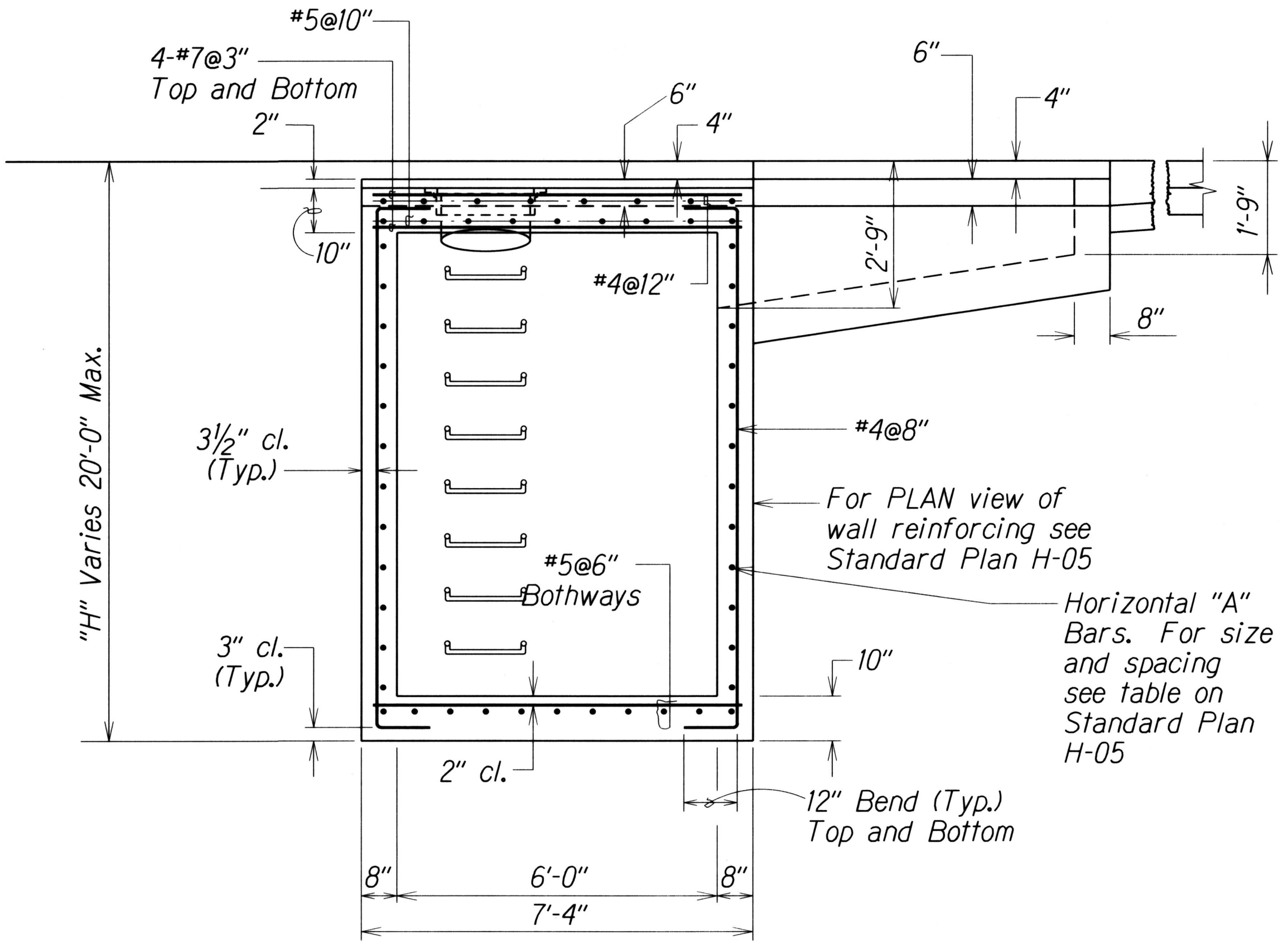
Scale: 3/4" = 1'-0" Date: Feb., 2017

SHEET No. H7 OF 13 SHEETS

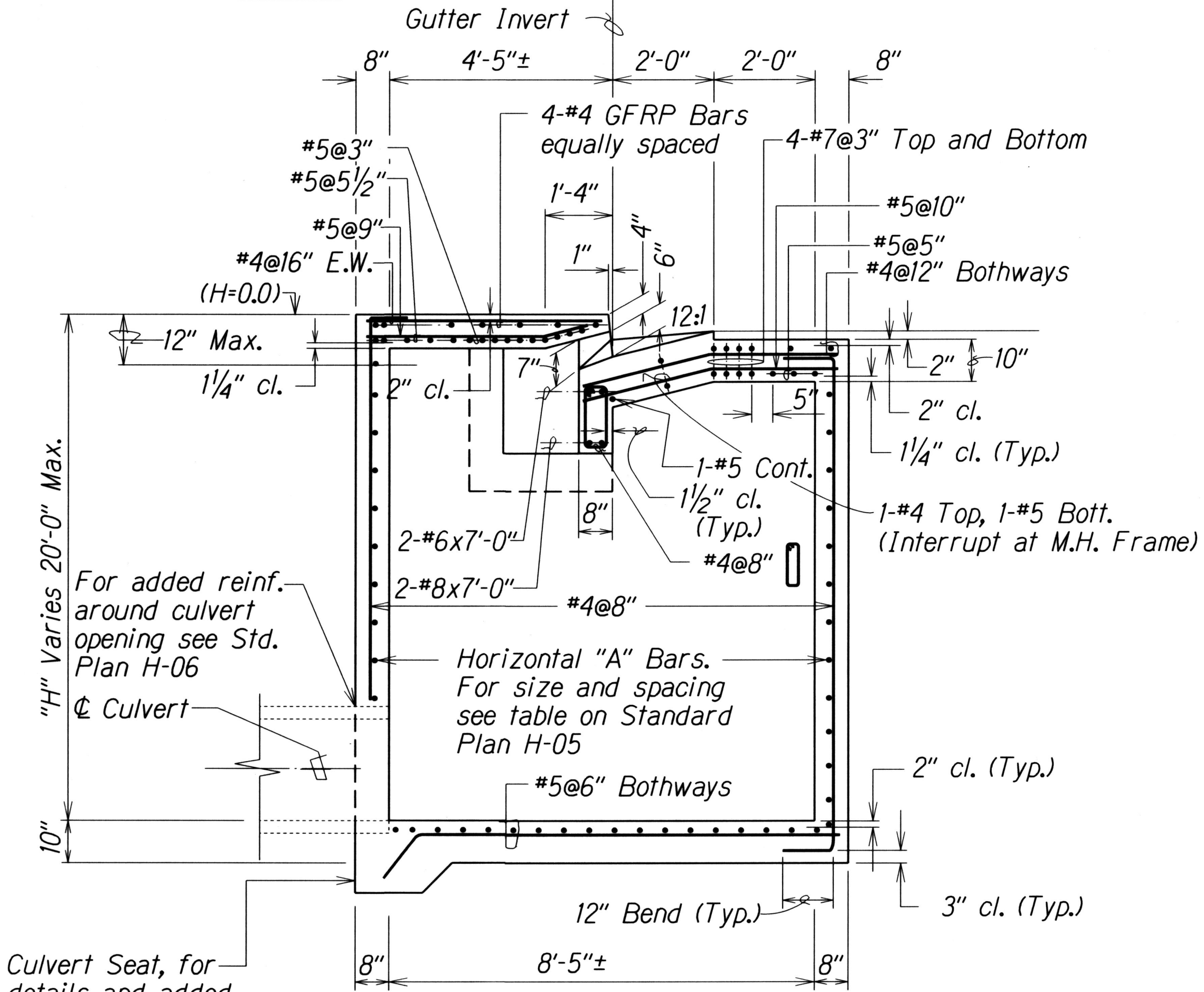
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2017	131	193



PLAN



SECTION



SECTION



- Notes:
- 1) Match Top of Catch Basin to New Curb Grade.
 - 2) Demolish, Remove, and Dispose exist. Manhole Frame and Cover.
 - 3) For added reinforcing around manhole opening, see Std. Plan H-06.
 - 4) Contractor shall verify dimensions.
 - 5) Existing culverts are shown on the drainage plans.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

Culvert Seat, for details and added reinforcing see Std. Plan H-06

COMBINATION TYPE C CATCH BASIN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL

INTERSTATE ROUTE H-2 AND MOANALUA FREEWAY

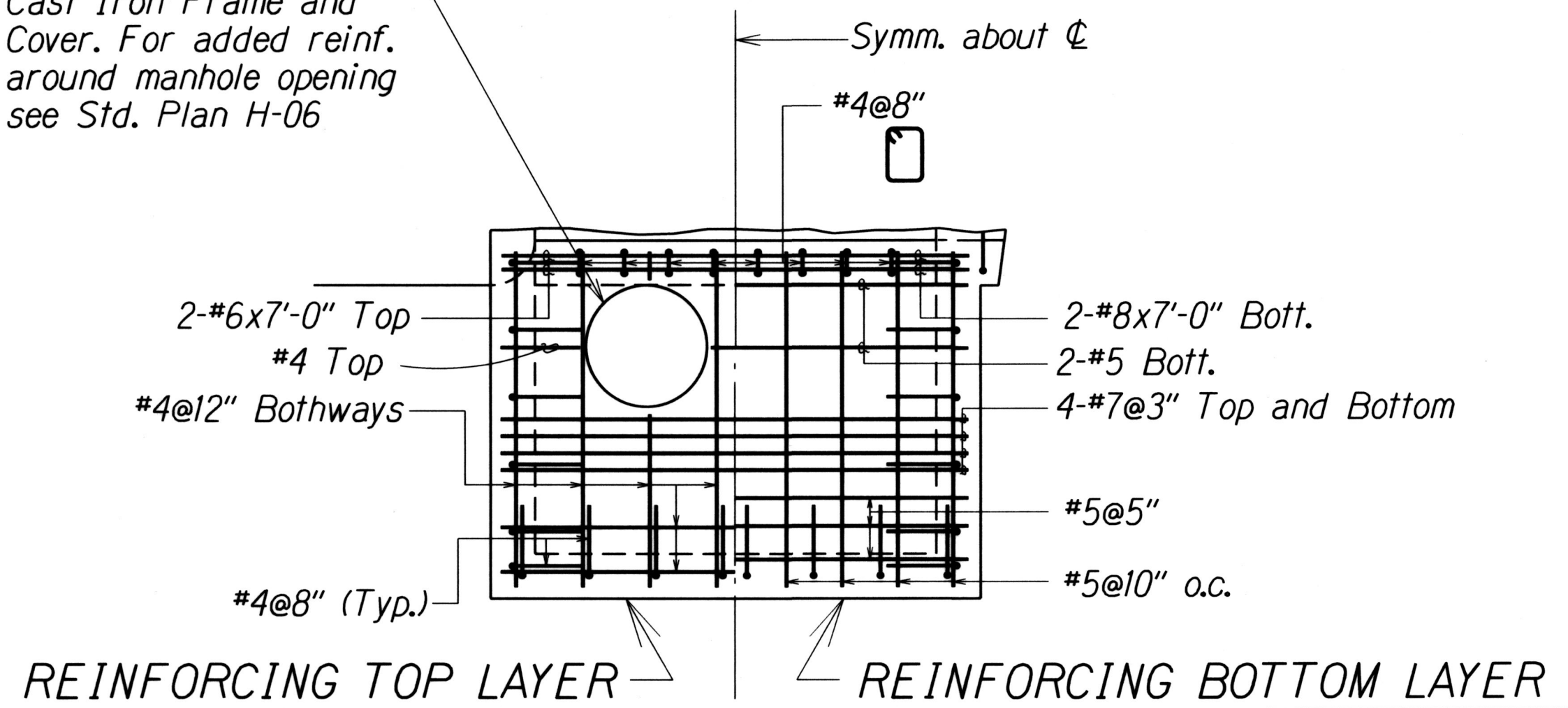
Guardrail and Shoulder Improvements
Federal Aid Project No. IM-STP-0300(106)

Scale: 1/2"=1'-0"
Date: Feb., 2017

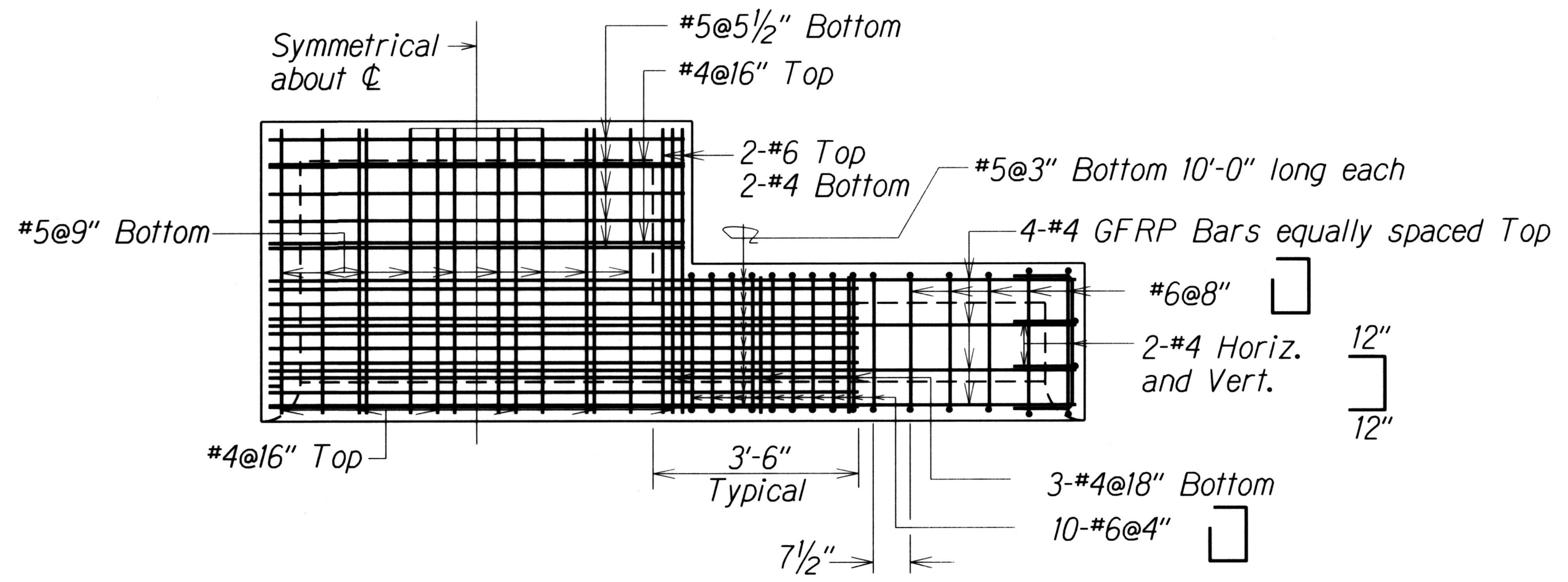
SHEET No. H10 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-STP-0300(106)	2017	132	193

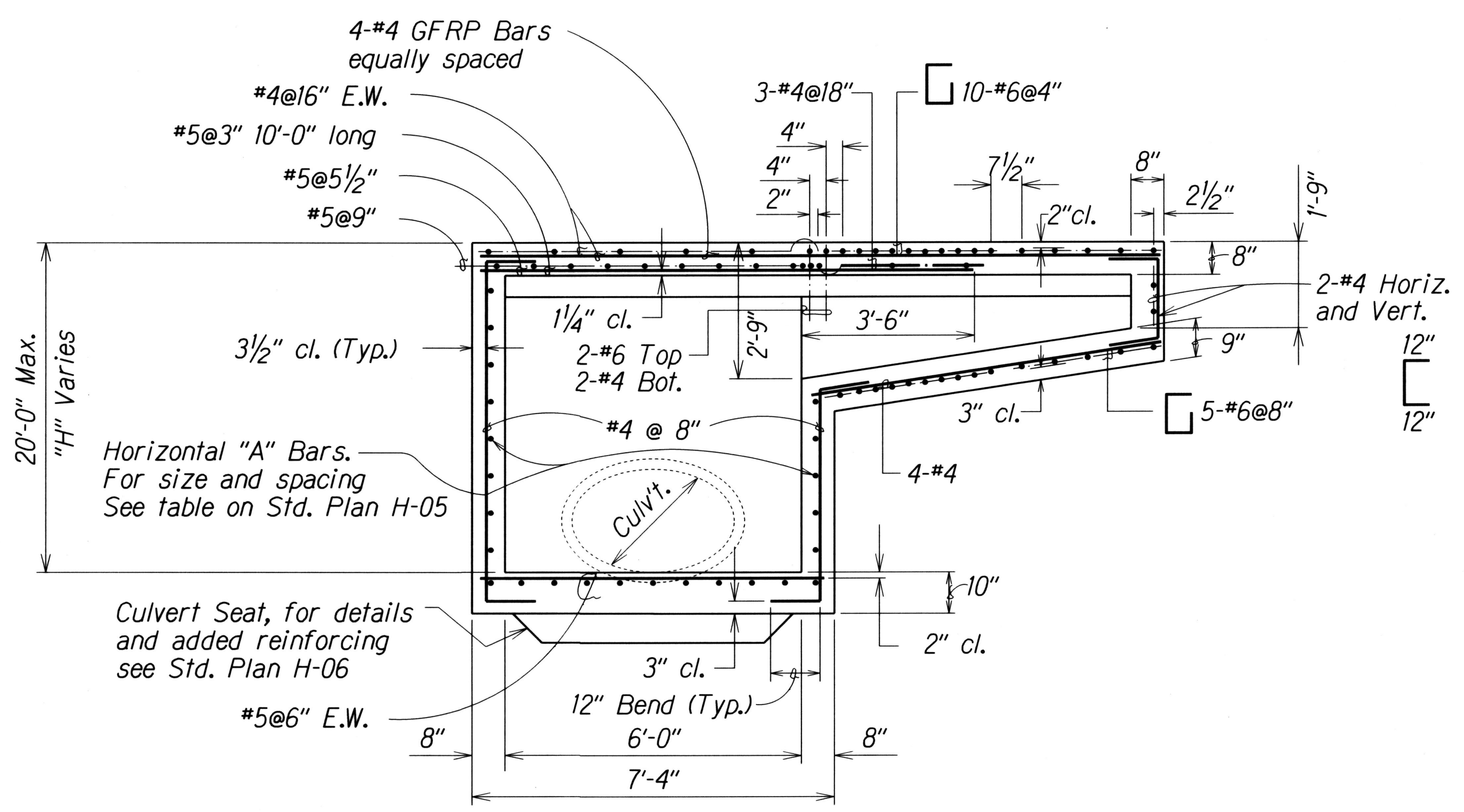
Opening for Type "A"
Cast Iron Frame and
Cover. For added reinf.
around manhole opening
see Std. Plan H-06



PLAN VIEW OF REINFORCING STEEL (ROADWAY PORTION)



PLAN VIEW OF REINFORCING STEEL (SHOULDER PORTION)



SECTION B
H10/H11

COMBINATION TYPE C CATCH BASIN

DATE	____
SURVEY PLOTTED BY	____
DESIGNED BY	____
TRACED BY	____
NOTE BOOK	____
QUANTITIES BY	____
CHECKED BY	____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL

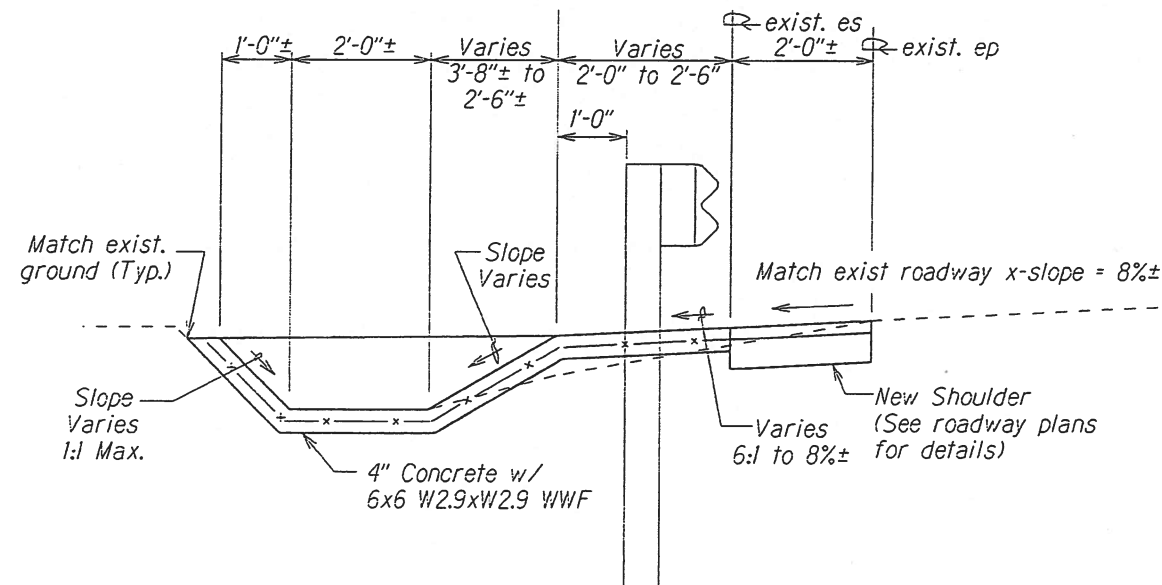
INTERSTATE ROUTE H-2
AND MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal Aid Project No. 1M-STP-0300(106)

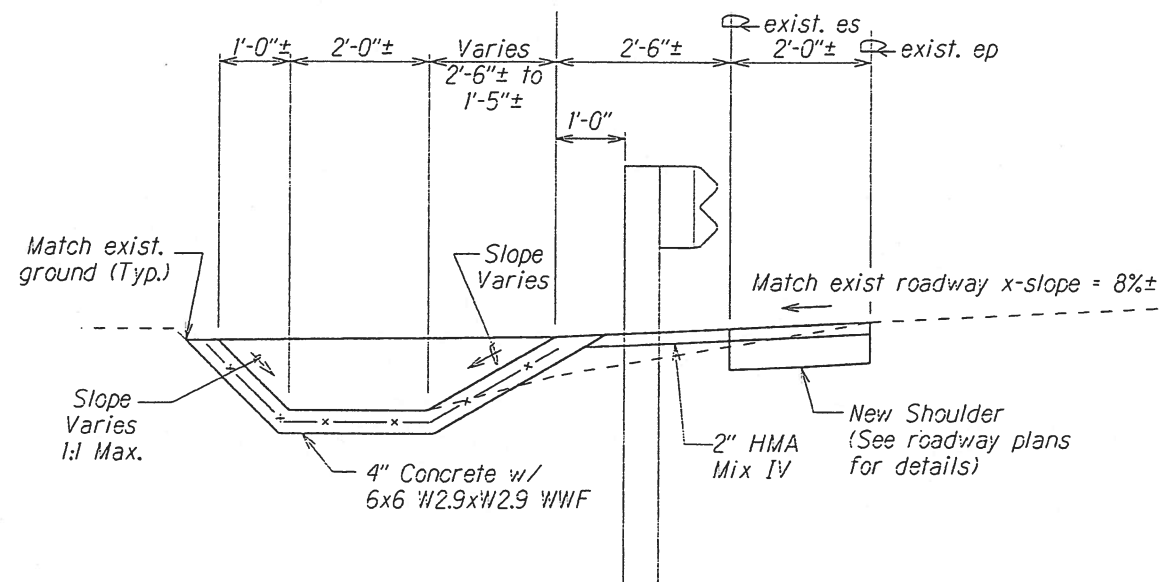
Scale: 1/2"=1'-0" Date: Feb., 2017

SHEET No. H11 OF 13 SHEETS

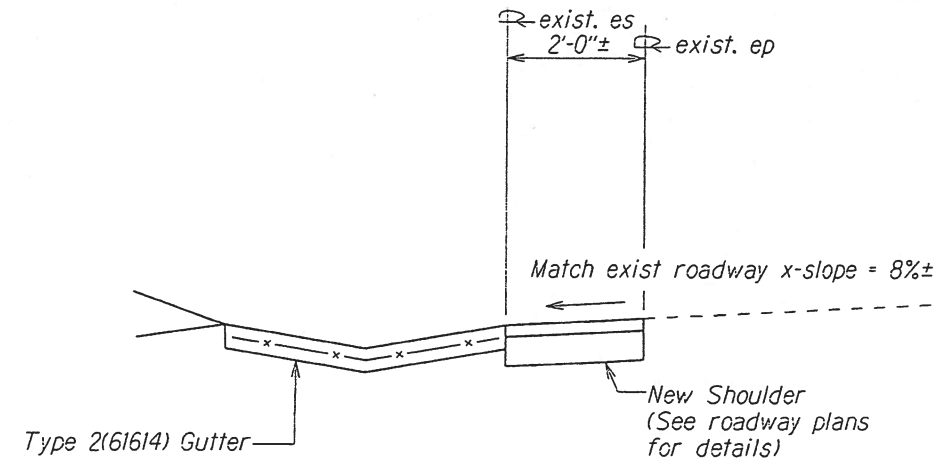
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-STP-0300(106)	2017	C.O.134	195



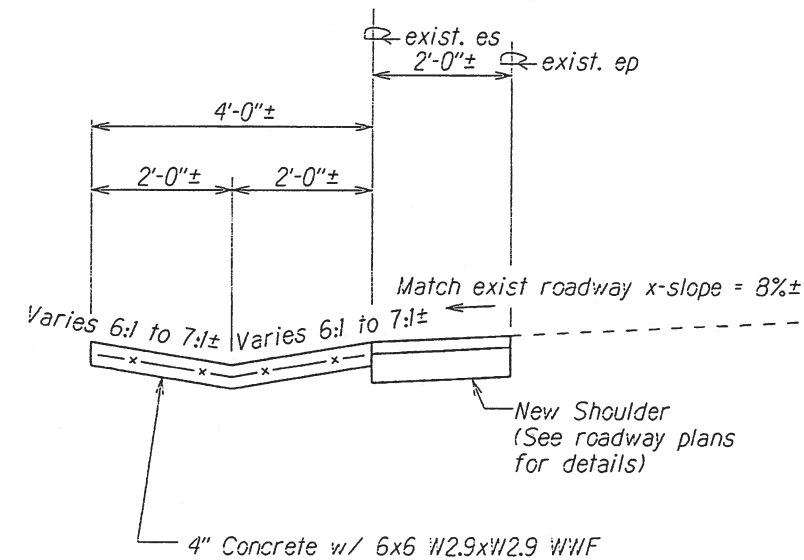
SECTION A
H12/H13



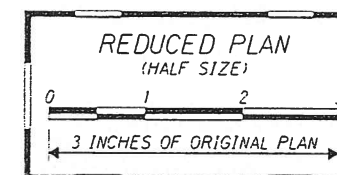
SECTION B
H12/H13



SECTION D
H12/H13



SECTION C
H12/H13



1/23/19 Added Sections C&D
X

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL
INTERSTATE ROUTE H-2
AND MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal Aid Project No. 1M-STP-0300(106)

Scale: 3/4" = 1'-0" Date: Feb., 2017

SHEET No. H13 OF 13 SHEETS

C.O. 134

ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
No.	01/3