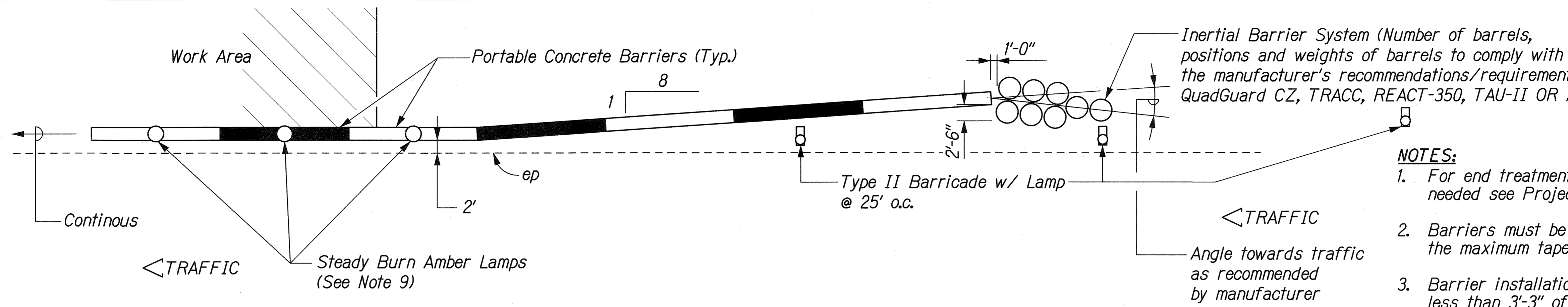


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	59	160

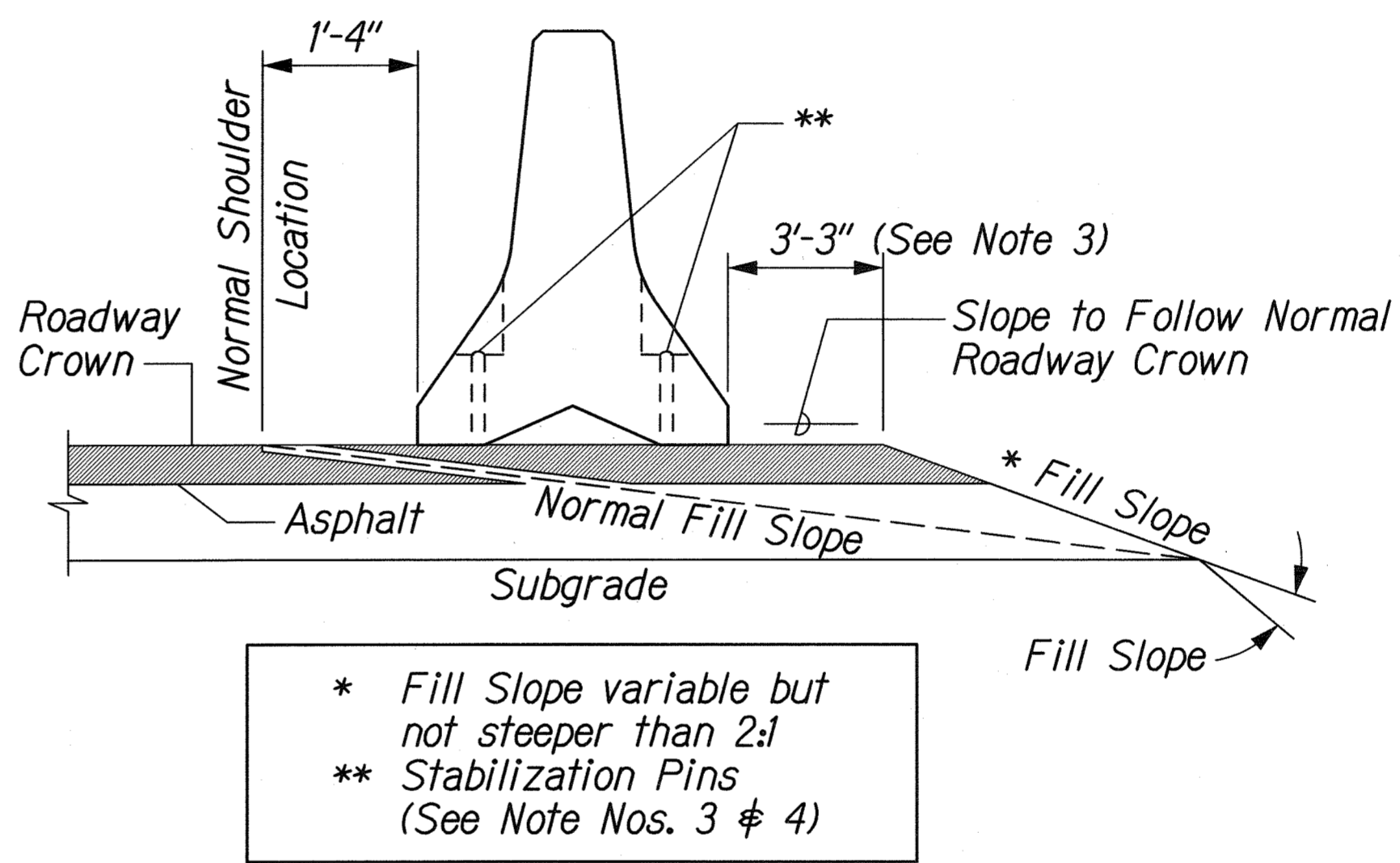


TYPICAL DETAIL - PORTABLE CONCRETE BARRIER END TREATMENT

Scale: 1" = 10'-0"

- NOTES:**
- For end treatment, layout, crash cushions and where needed see Project Plans or Special Provisions.
 - Barriers must be pinned together and cannot exceed the maximum taper of 8:1.
 - Barrier installations that require less than 3'-3" of outward lateral movement should have stabilization pins.
 - ASTM A-36 steel shall be used for the connection pin, connection loops and stabilization pins. A one piece pin, with a 3" rounded top may be used in place of the detailed connection pin if the one piece pin meets ASTM A-36 requirements.
 - A 4" white PVC sleeve may be used to form the lifting hole and if used the sleeve is to be left in place.
 - Concrete shall be Class A and reinforcing shall be Grade 60.
 - Identification and date of design will be as follows:
PROPERTY OF HDOT
OCT 2001
Text letters and numbers shall be as shown on Std. Plan Sht. B-01. "PROPERTY OF HDOT" may be changed depending upon ownership. All portable Concrete Barriers made for HDOT will be subject to rejection, if "PROPERTY OF HDOT" is not imprinted. The Contractor shall bear the cost of the rejected Portable Concrete Barriers.
 - Minimum tangent length for Portable Concrete Barrier System shall be 100' (5 units). This minimum does not include the required system length of the Inertial Barrier System.
 - Install steady burn amber lamps on portable concrete barriers at 20.0' o.c. Installing, maintaining and removing each steady burn amber lamp including changing of batteries and bulbs shall be considered incidental to applicable portable concrete barrier items.

METAL REINFORCEMENT TABLE				
MARK	LOCATION	BAR SIZE	(NO. BARS)	SKETCH
H-1	Horizontal in Barrier Tied Inside V-1 Bars	#5	(6)	19'-3"
H-2	Centered Above Scuppers Long. & Transversely	#5	(6)	6'-6"
H-3	Tied Above H-1 Bars to Support H-2, Tied to V-1	#4	(2)	1'-6"
S-1	Horizontal in Top of Wing Wall & in Floor Back Wall	#4	(2)	
S-2	Horizontal Around Slots Between V-1's @ Scuppers	#4	(2)	
V-1	Vertical in Barrier (3) Each End & (2) at Each Scupper	#5	(16)	



STANDARD INSTALLATION

(See Note No. 1)

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	
NOTE BOOK	
N.	

44 FORT WEAVER ROAD/TCP/BARRIER/0409

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

R. M. Urasky

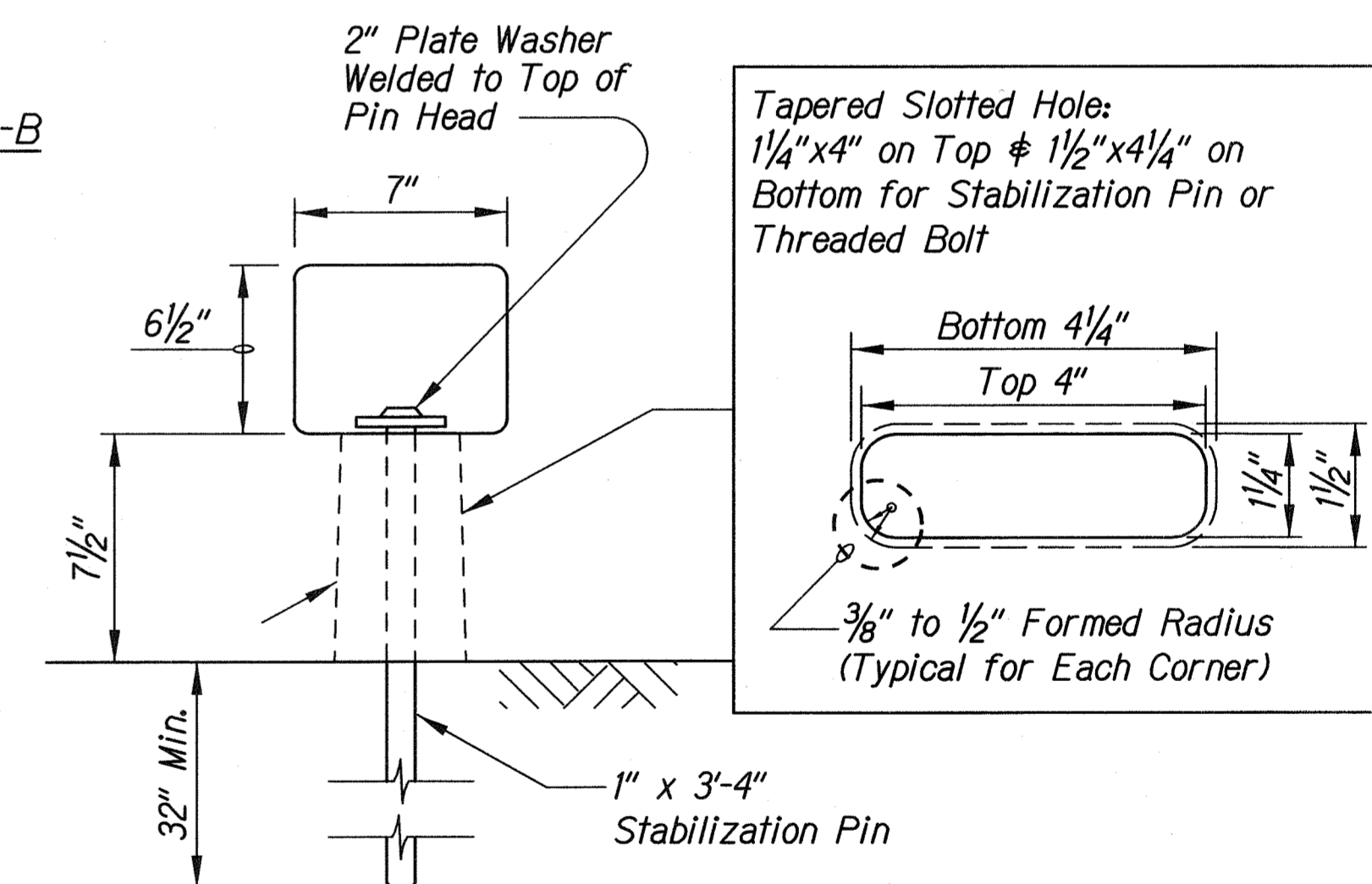
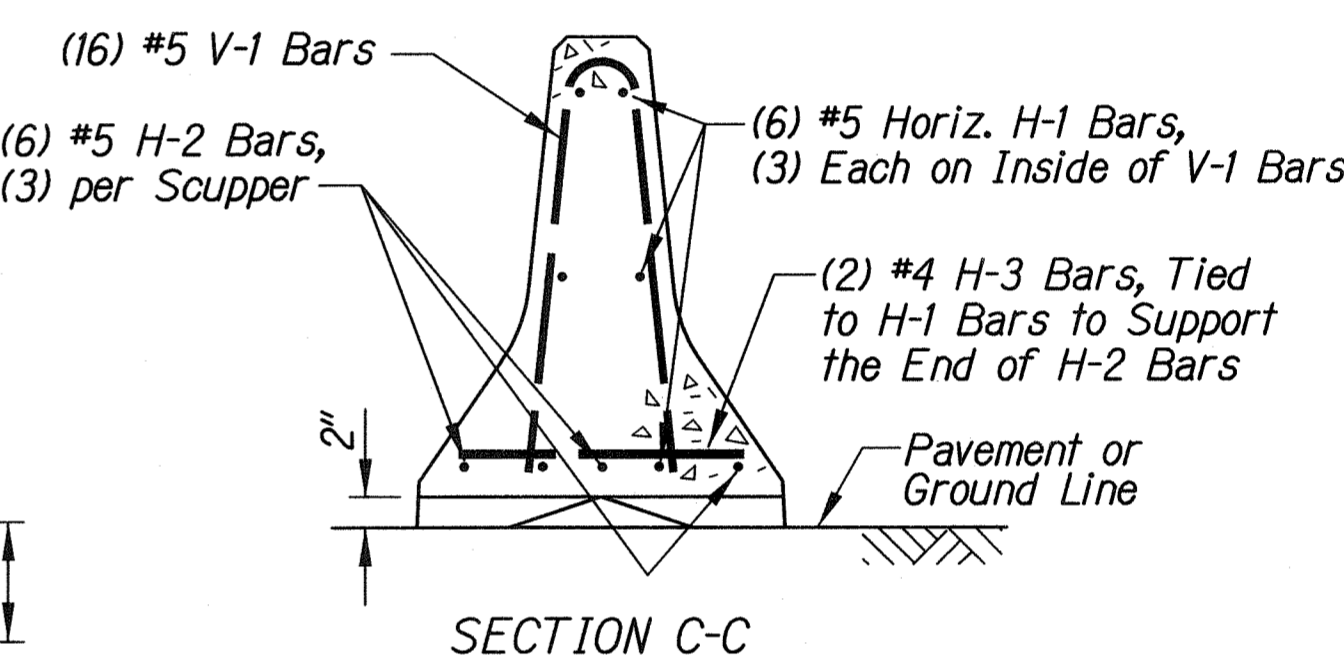
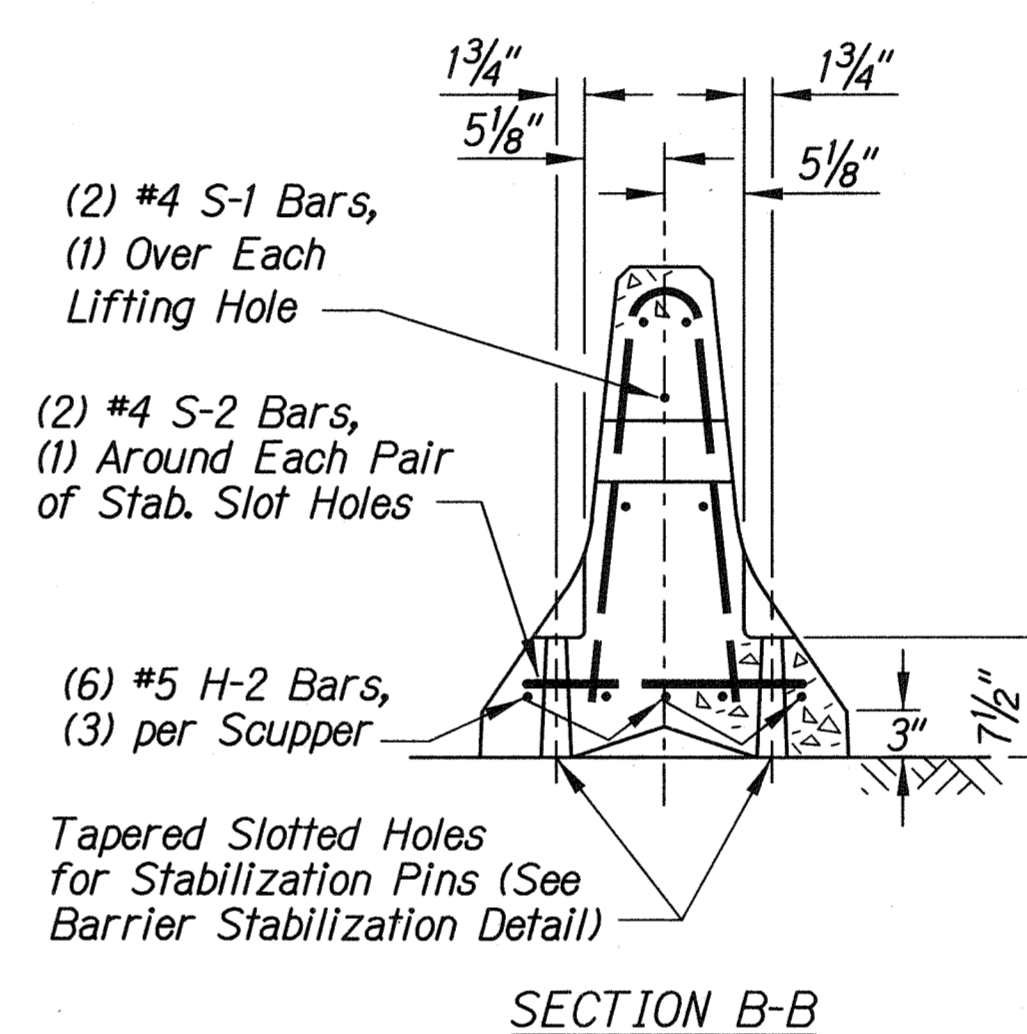
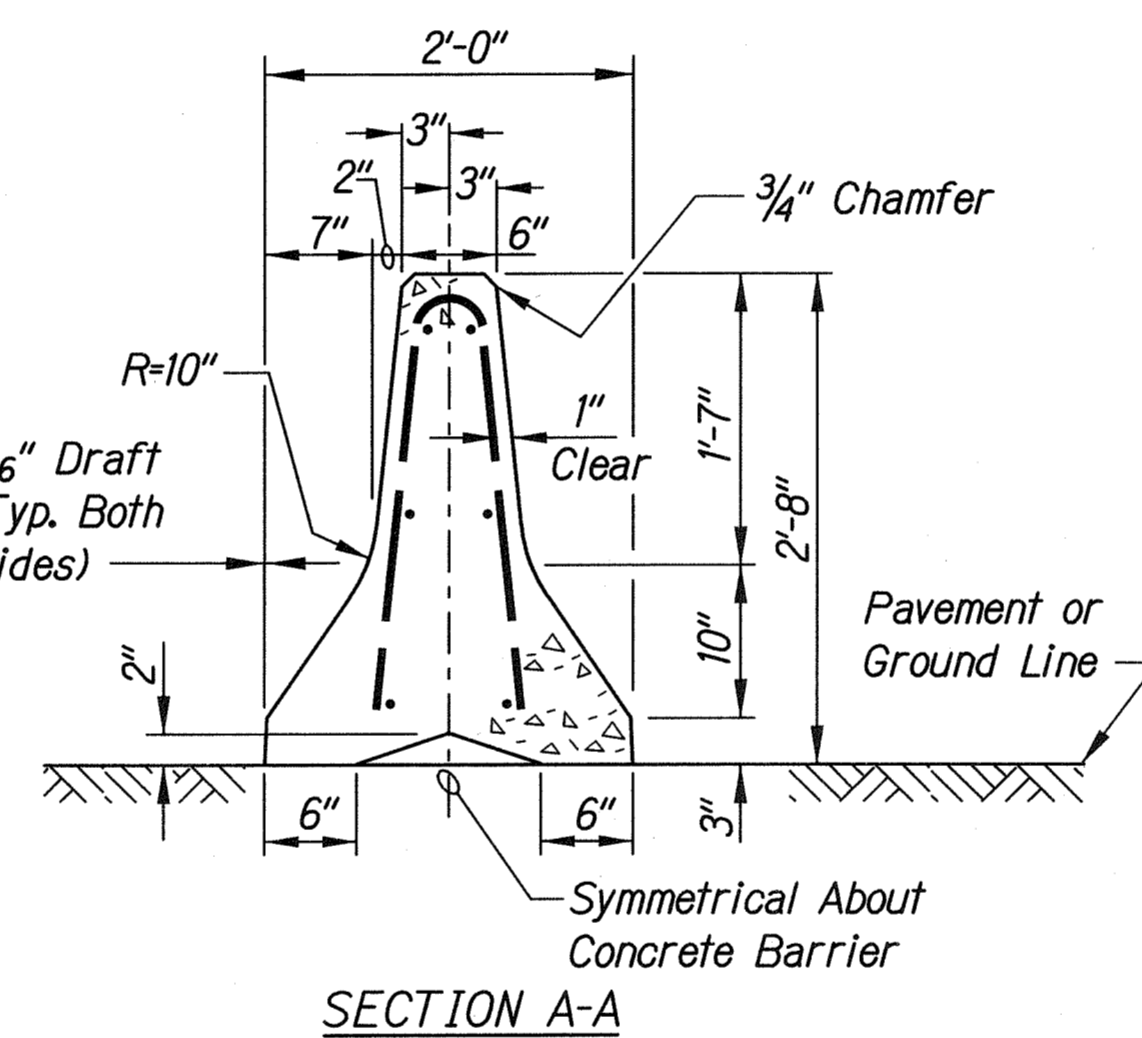
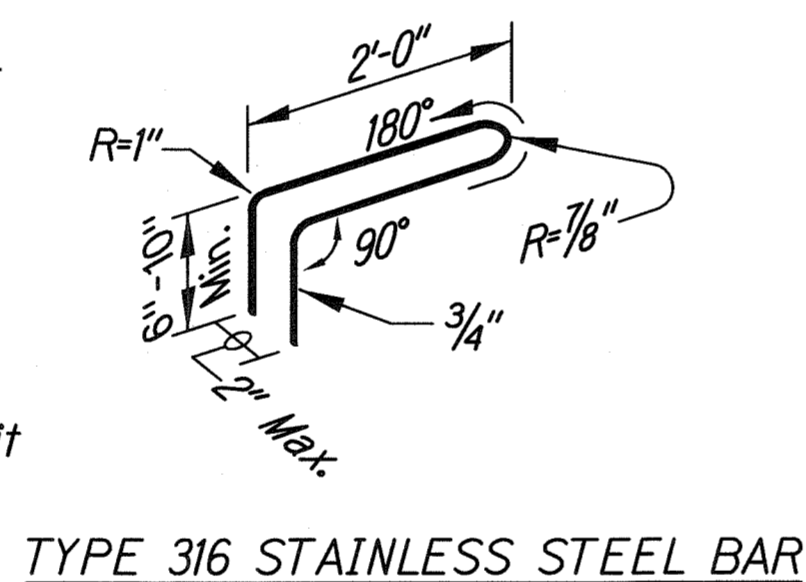
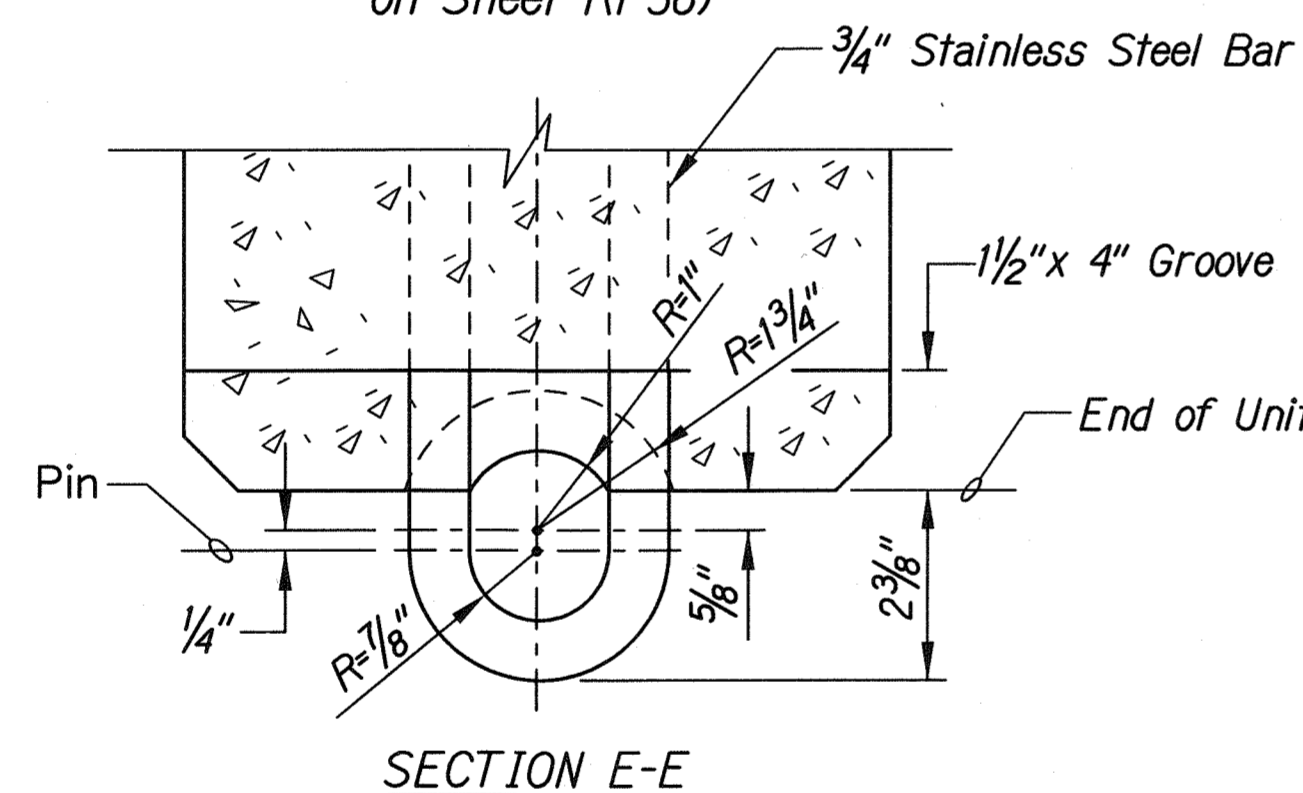
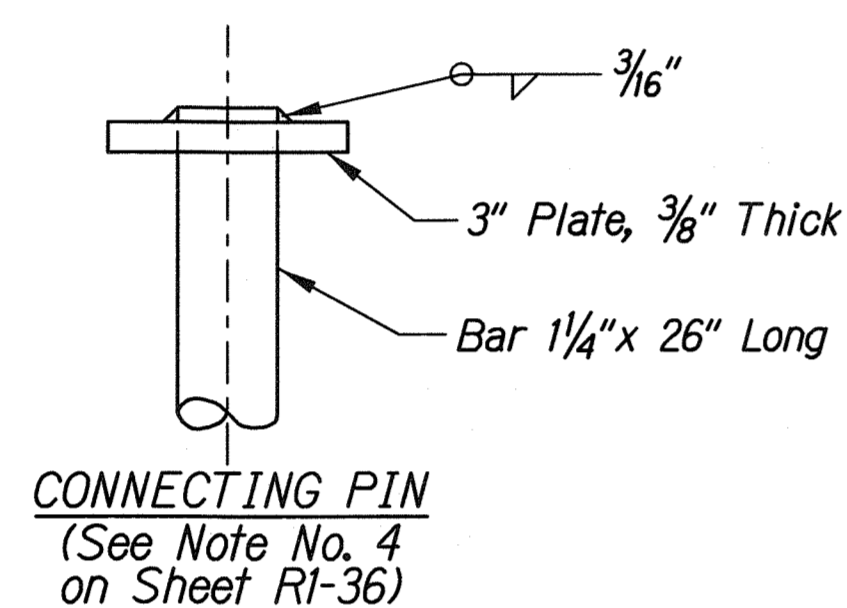
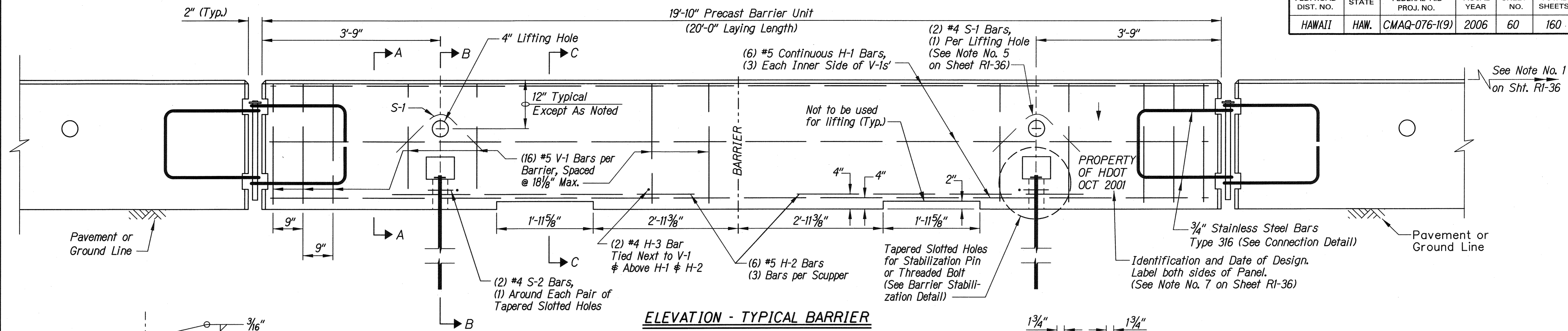
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PORTABLE CONCRETE BARRIER

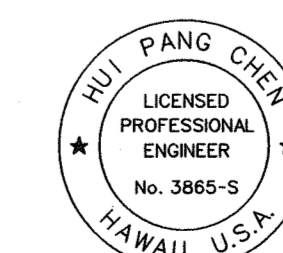
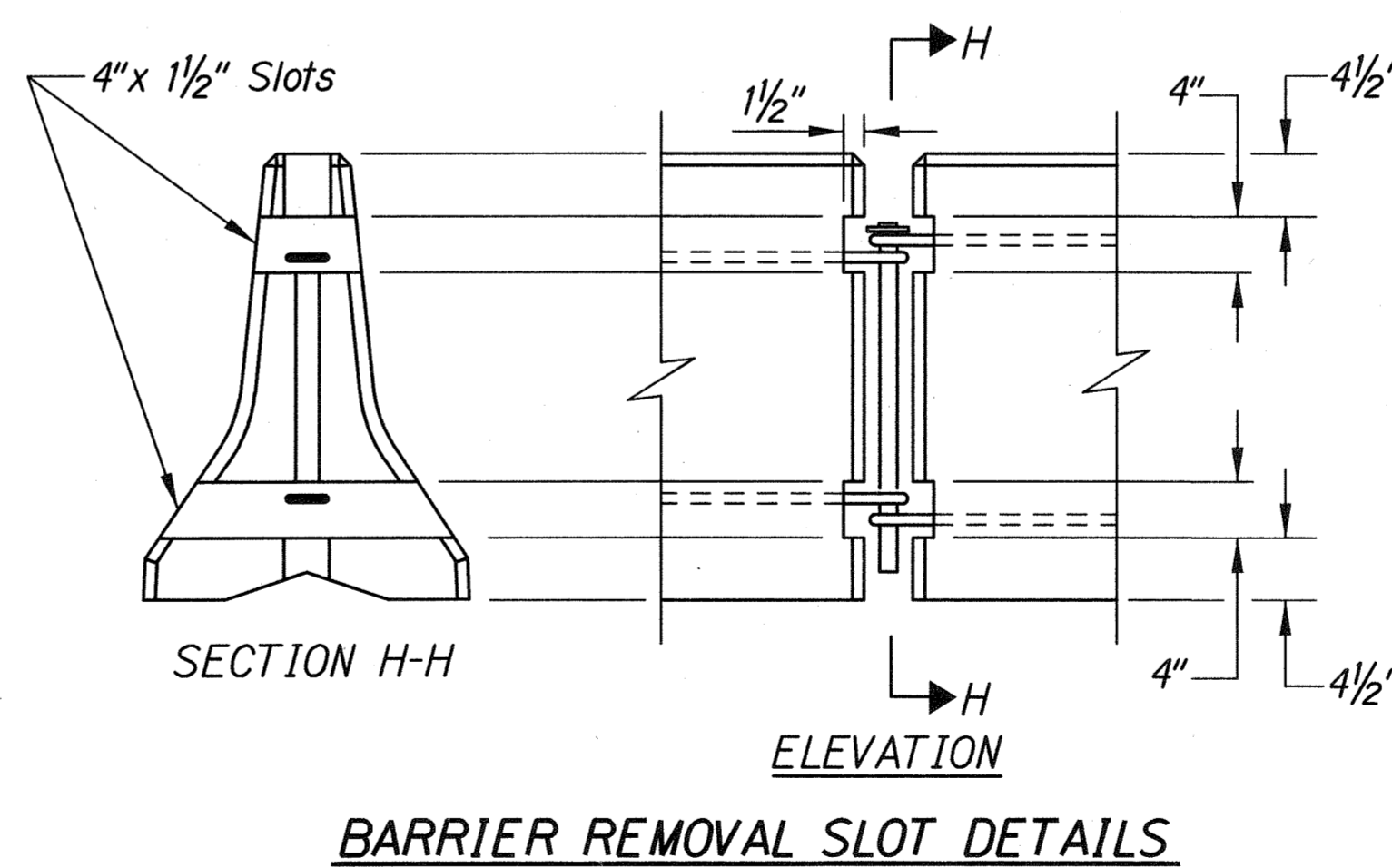
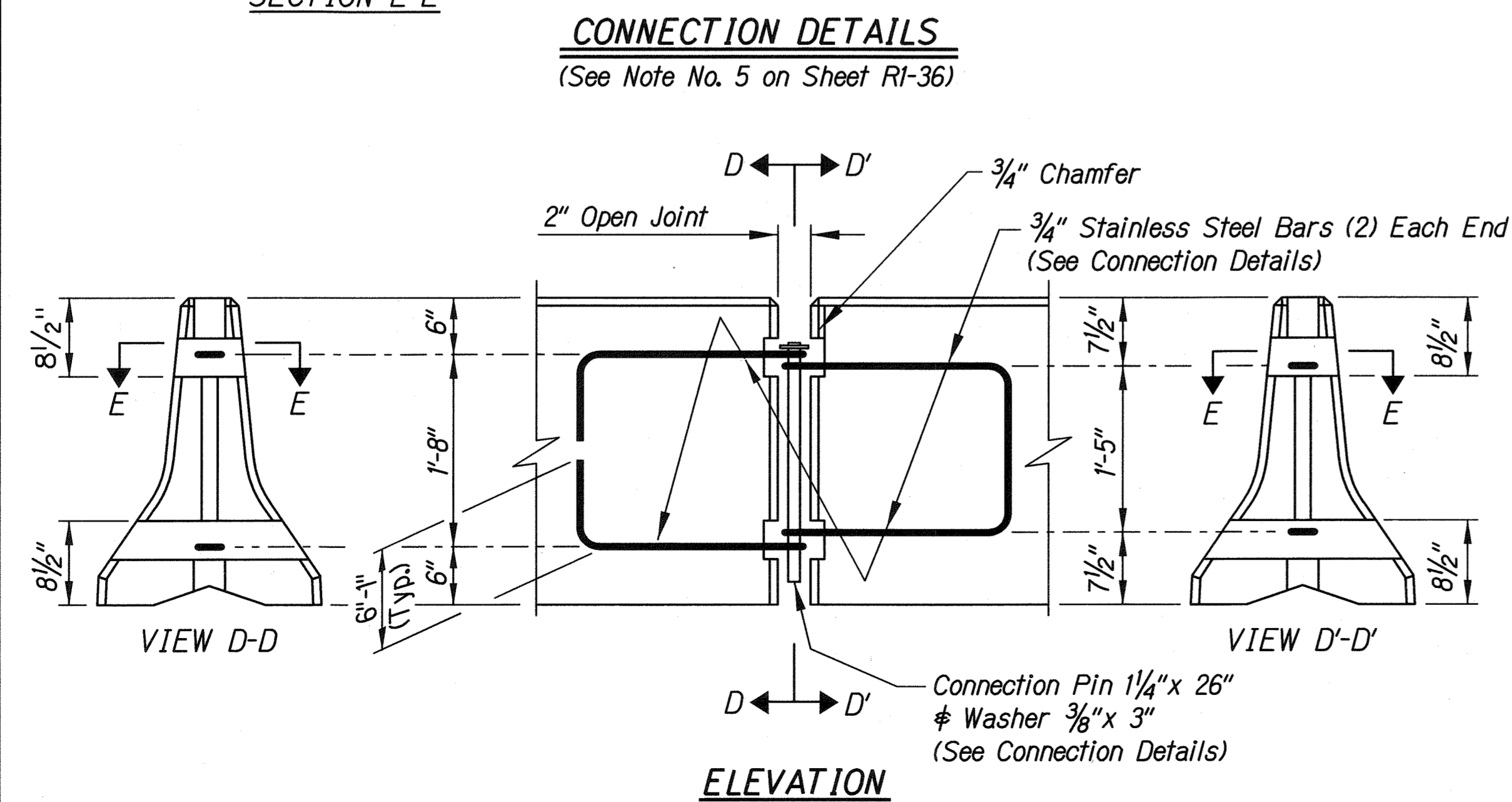
FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: As Shown Date: Sept. 20, 2007

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-076-1(9)	2006	60	160



Repair all holes and damage to pavement



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PORTABLE CONCRETE BARRIER

FORT WEAVER ROAD WIDENING
VICINITY OF AAWA DRIVE TO GEIGER ROAD

Scale: As Shown Date: Sept. 20, 2007

SHEET No RI-37 OF 39 SHEETS