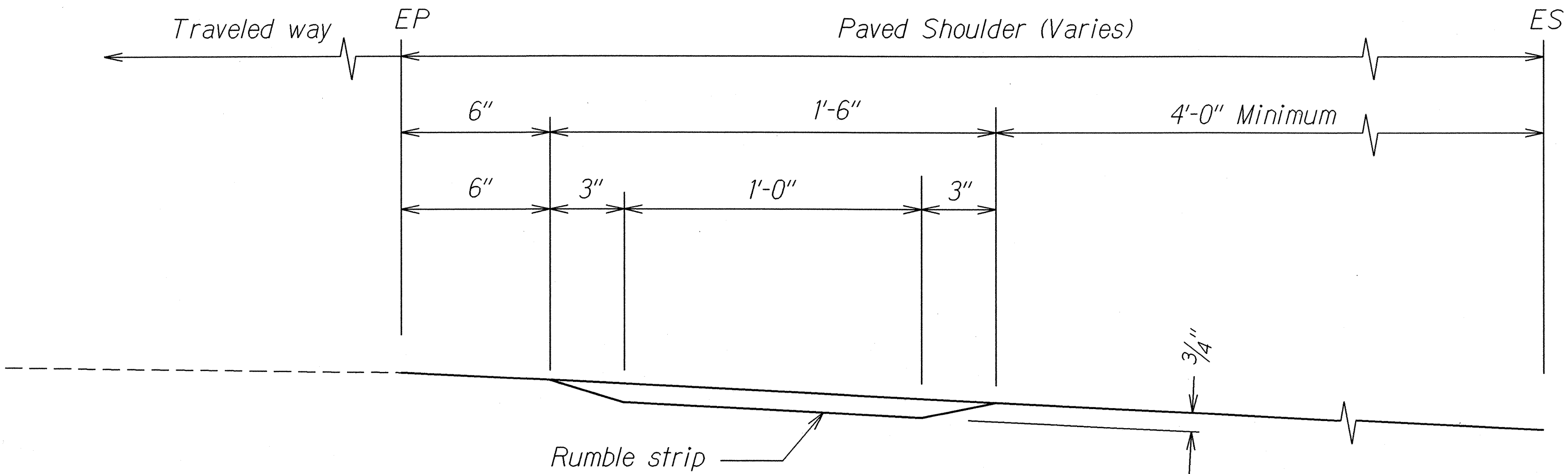


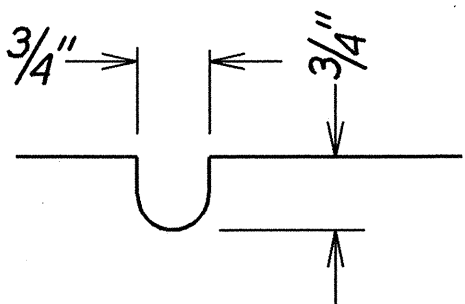
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(29)	2001	10	37

NOTES :

- Rumble Strip depressions must be placed after Breakdown Rolling, with Finish Rolling done after Rumble Strip Rolling but not on depressions unless otherwise directed by the Engineer.
- Rolling for Rumble Strip depressions shall be done when temperature of asphalt is about 180° F (when fines just stick to the palm of hand). Discontinue rolling if mat begins to tear. The rolling of depressions or the stopping of rolling process shall be done in accordance to the the preceding requirements unless otherwise directed by the Engineer.
- Priority is to complete full Breadown Rolling in order to achieve the required density. Full depth depression is a secondary consideration unless otherwise directed by the Engineer.
- The method of constructing the Rumble Strip depressions shall be submitted to the Engineer for acceptance prior to the actual work.
- The construction of the the Shoulder Rumble Strip including the fabrication of the grooving apparatus and 6"white stripe, shall be considered incidental to Section 312 - Plant Mix Glassphalt Concrete Base Course and will not be paid for separately.
- When shoulder reconstruction is required, Shoulder Rumble Strip shall be replaced exactly in the same location as constructed on the ground, no alterations will be allowed.



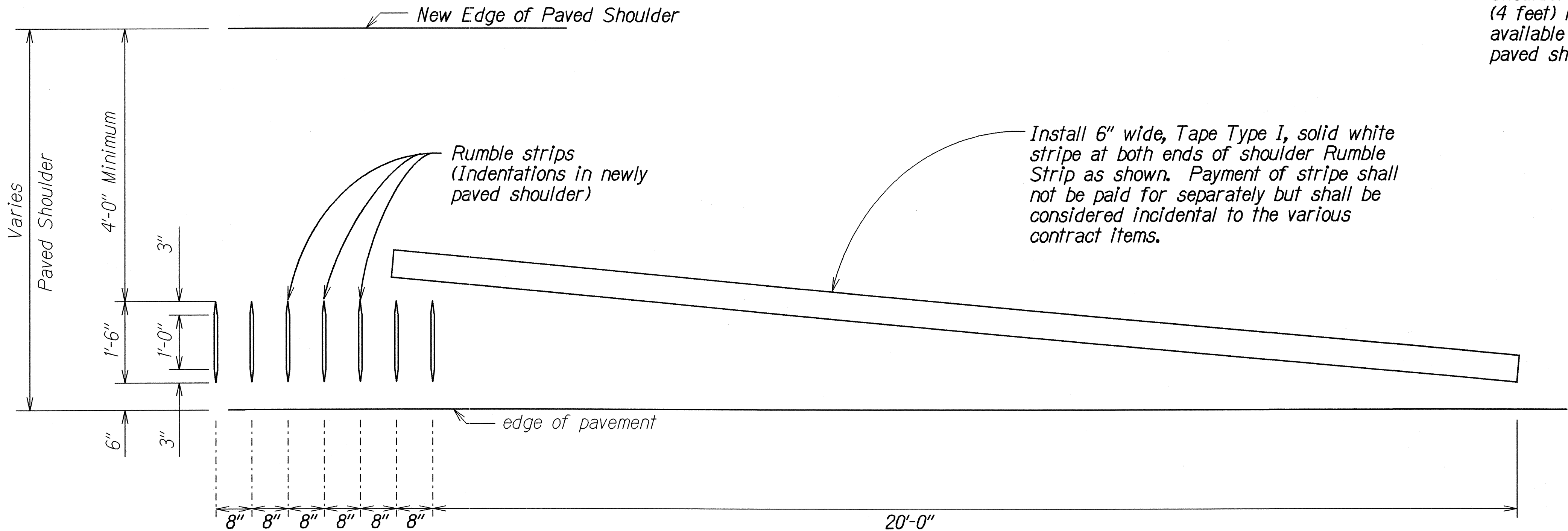
LONGITUDINAL SECTION - RUMBLE STRIP  
Scale: 3"=1'-0"



SECTION - RUMBLE STRIP  
Scale: 6"=1'-0"

NOTE

Shoulder rumble strips should not be used unless 1.2 meters (4 feet) minimum of clear shoulder width for bicycle use is available between the rumble strips and the outer edge of the paved shoulder.



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

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

SHOULDER RUMBLE STRIP  
DETAILS AND NOTES  
KAWAIHAE ROAD  
GUARDRAIL AND SHOULDER IMPROVEMENTS  
F.A. PROJECT NO. NH-019-1(29)  
Scale: see plans      Date: Aug, 2001  
SHEET No. 1 OF 1 SHEETS