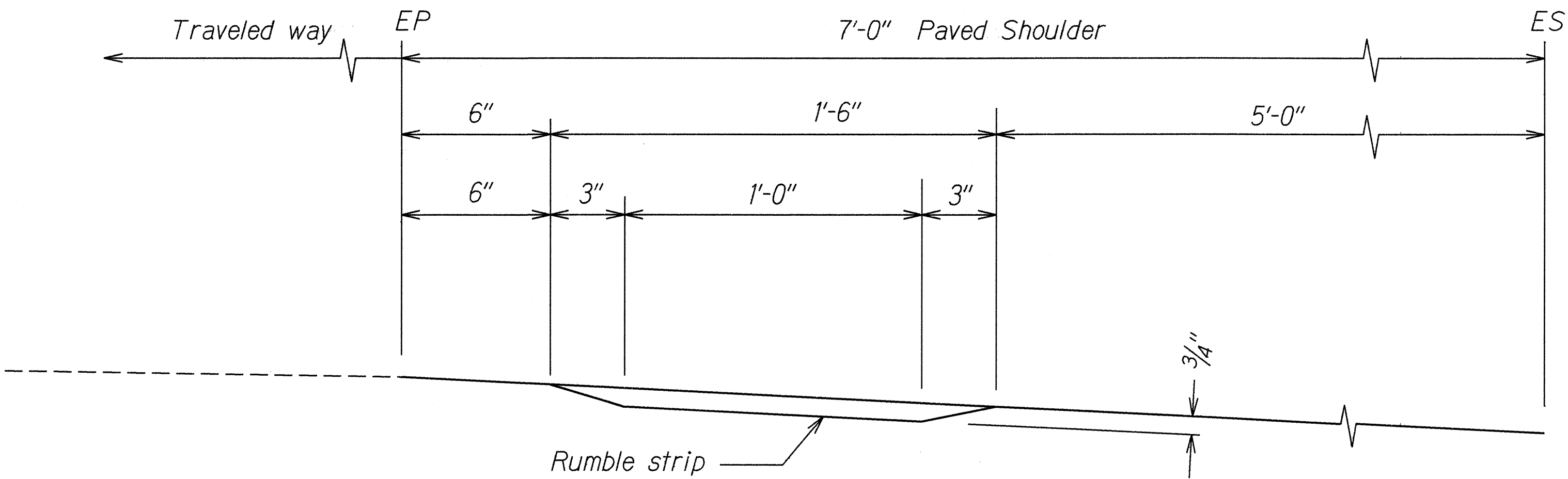


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-019-1(23)	1996	6	8

NOTES :

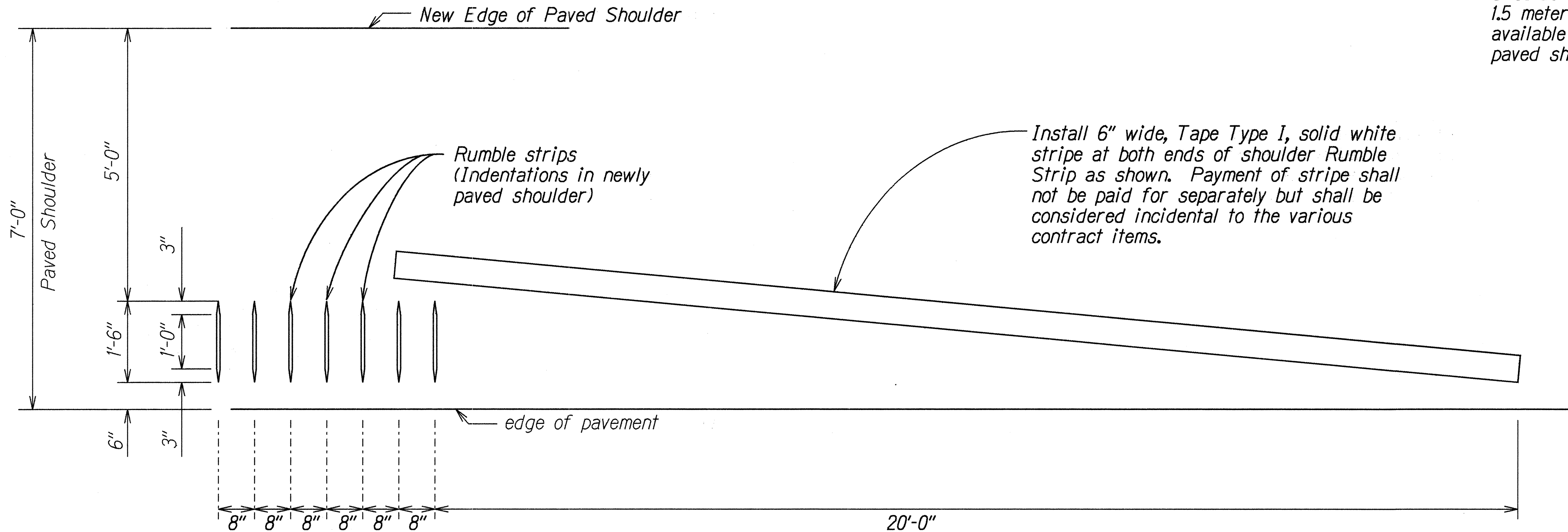
- Rumble Strip depressions must be placed after Breakdown Rolling, with Finish Rolling done after Rumble Strip Rolling but not on depressions unless otherwise directed by the Engineer.
- Rolling for Rumble Strip depressions shall be done when temperature of asphalt is about 180° F (when fines just stick 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 Asphalt Concrete Pavement, Mix No. V and will not be paid for separately.



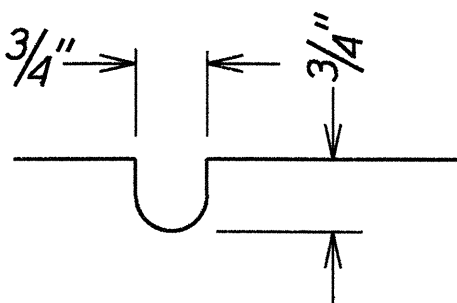
LONGITUDINAL SECTION - RUMBLE STRIP
Scale: 3"=1'-0"

NOTE

Shoulder rumble strips should not be used unless approximately 1.5 meters (5 feet) 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"



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

SURVEY PLOTTED BY	DATE
DRAWN BY D. Shira	11-08-92
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOULDER RUMBLE STRIP
DETAILS AND NOTES

QUEEN KAAHUMANU SHOULDER IMPROVEMENTS

Keahole to Waikoloa

Federal Aid Project No. STP-019-1(23)

Scale: As Shown Date: May, 1996

SHEET No. 1 OF 1 SHEETS