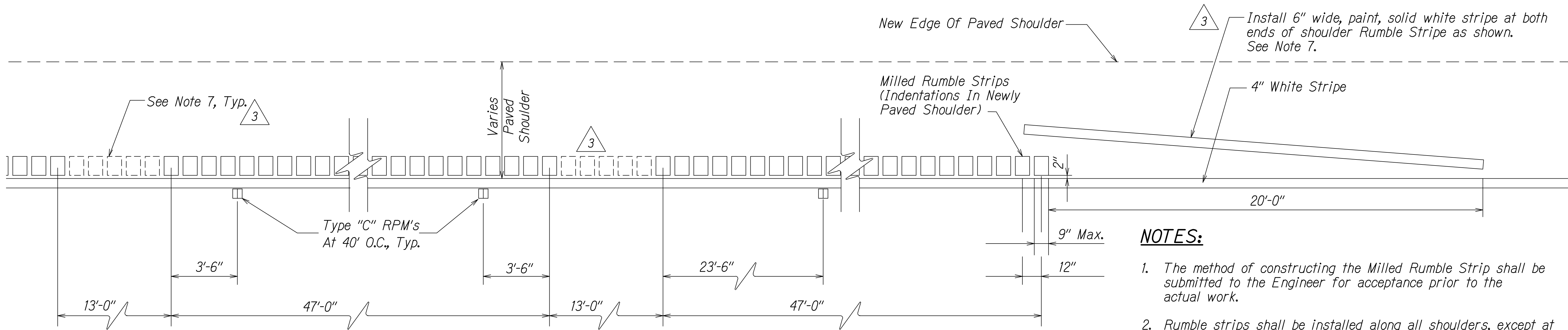


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-1(38)R	2016	C.O. 72	528

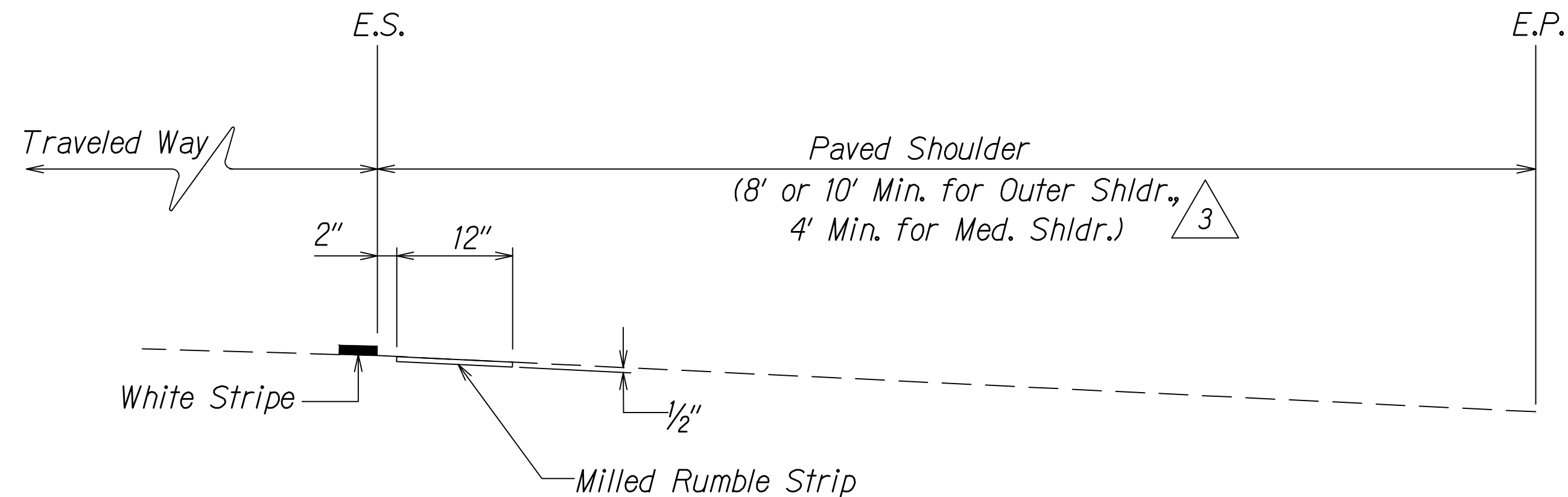


**PLAN - MILLED RUMBLE STRIP**

Scale: N.T.S.

**NOTES:**

1. The method of constructing the Milled Rumble Strip shall be submitted to the Engineer for acceptance prior to the actual work.
2. Rumble strips shall be installed along all shoulders, except at deceleration and acceleration lanes, as noted on the plans.
3. For outer shoulder, do not place Type "C" markers within 2 ft. of the 13 ft. Rumble Strip opening.
4. Rumble Strip will be paid for by linear foot. Included 13-foot gaps will be considered Rumble Strip and measured for payment. Any other gaps in the Rumble Strip (such as driveways, side roads, channelized intersections, etc.) will not be measured for payment.
5. Rumble Strips are to be installed after the edge of pavement stripe and before the installation of the Type "C" markers.
6. The rumble strips shall be fog sealed after milling operation. The application shall be submitted to the Engineer for acceptance prior to actual work.
7. The 13' gaps and 6" white stripe shall only be used for outside shoulders. Rumble strips in the median shoulder shall be continuous.

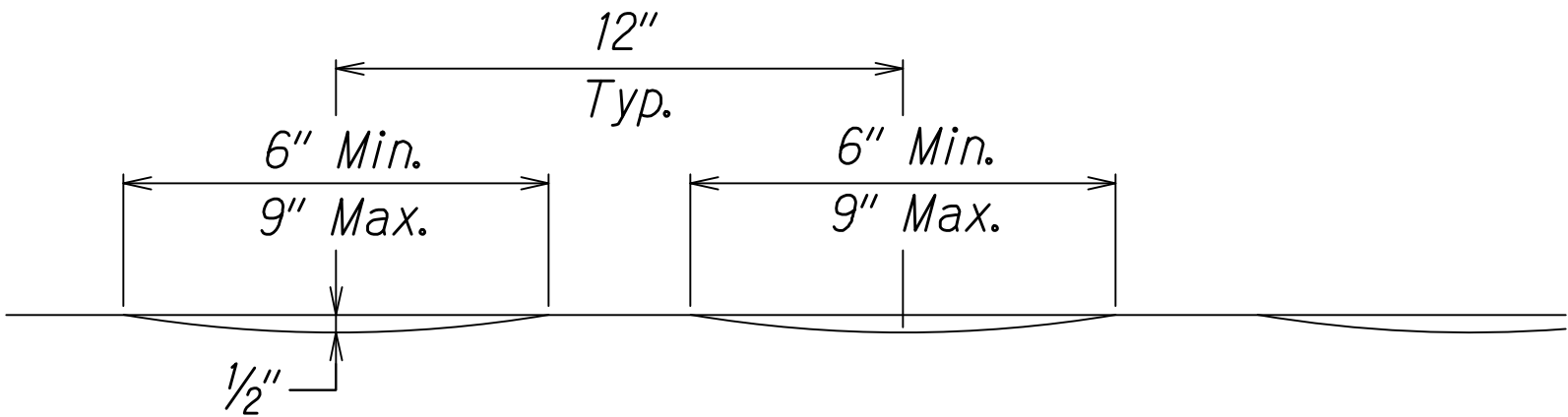


**LONGITUDINAL SECTION - MILLED RUMBLE STRIP**

Scale: 1" = 1'-0"

**NOTE:**

Shoulder rumble strips should not be used in outer shoulder unless 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.

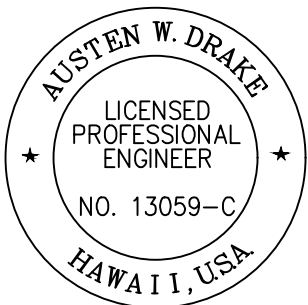


**CROSS SECTION - MILLED RUMBLE STRIP**

Scale: 3" = 1'-0"

**NOTE:**

Whenever existing Shoulder Rumble Strips are disturbed, the Shoulder Rumble Strip(s) shall be replaced exactly in the same location(s) as constructed on the ground, no alterations will be allowed.



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION AND  
CONSTRUCTION OF THIS PROJECT  
WILL BE UNDER MY OBSERVATION.  
Austen W. Drake  
SIGNATURE  
APRIL 30, 2018  
EXPIRATION DATE  
OF THE LICENSE

2/10/17	<div><div>3</div><div>Addition of median shoulder rumble strips</div></div>
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
MILLED RUMBLE STRIP DETAIL	
QUEEN KAAHUMANU HIGHWAY WIDENING Kealahou Pkwy. To Keahole Airport Rd.(Ph. 2) Federal Aid Project No. NH-019-1(38)R	
Scale: AS NOTED	Date: DECEMBER 2016
SHEET No. 1 OF 2 SHEETS	

