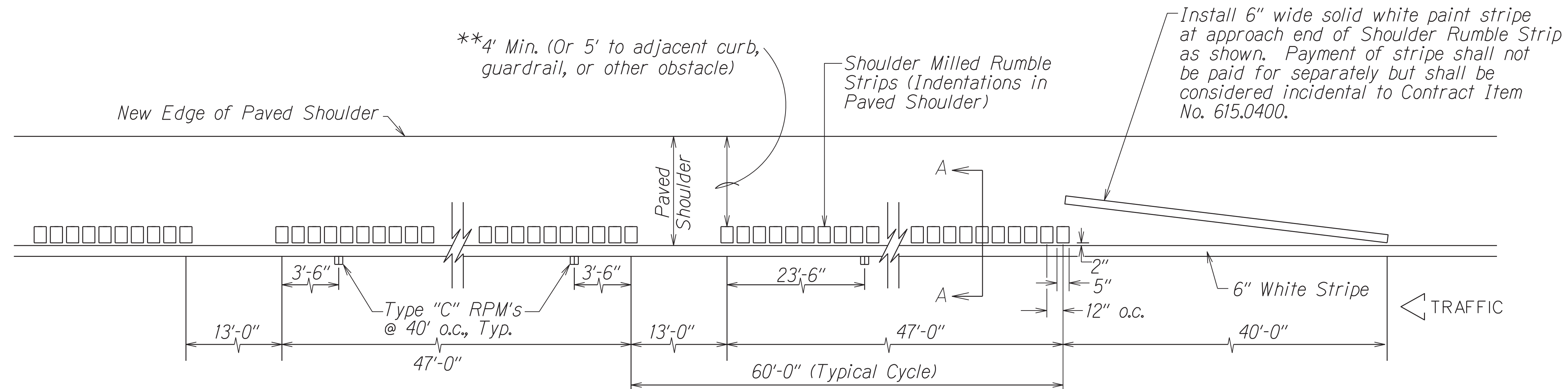
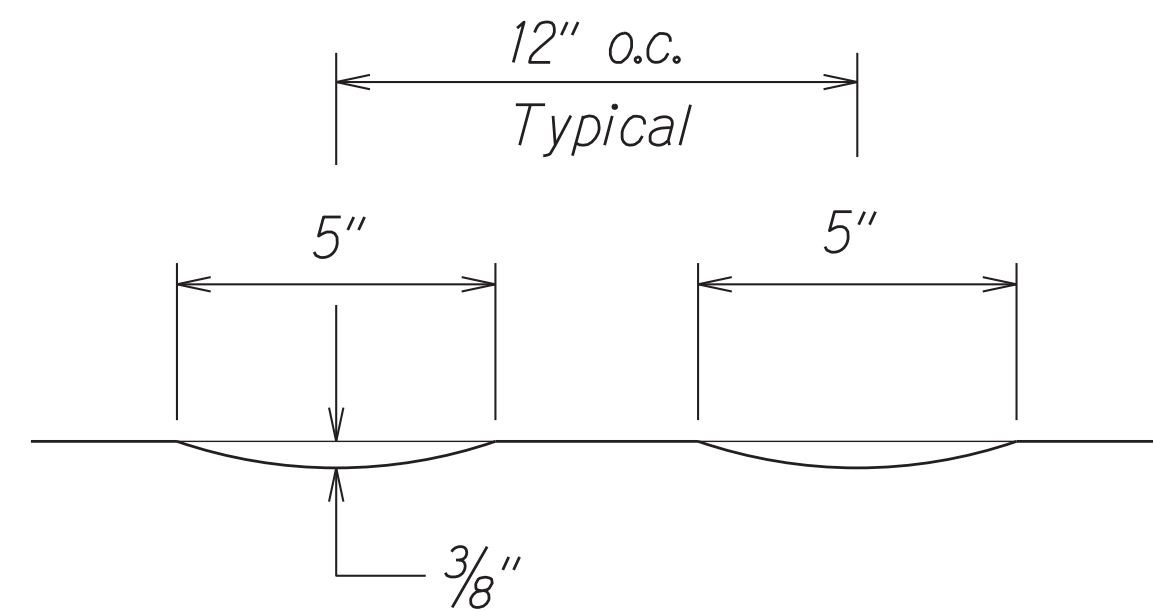


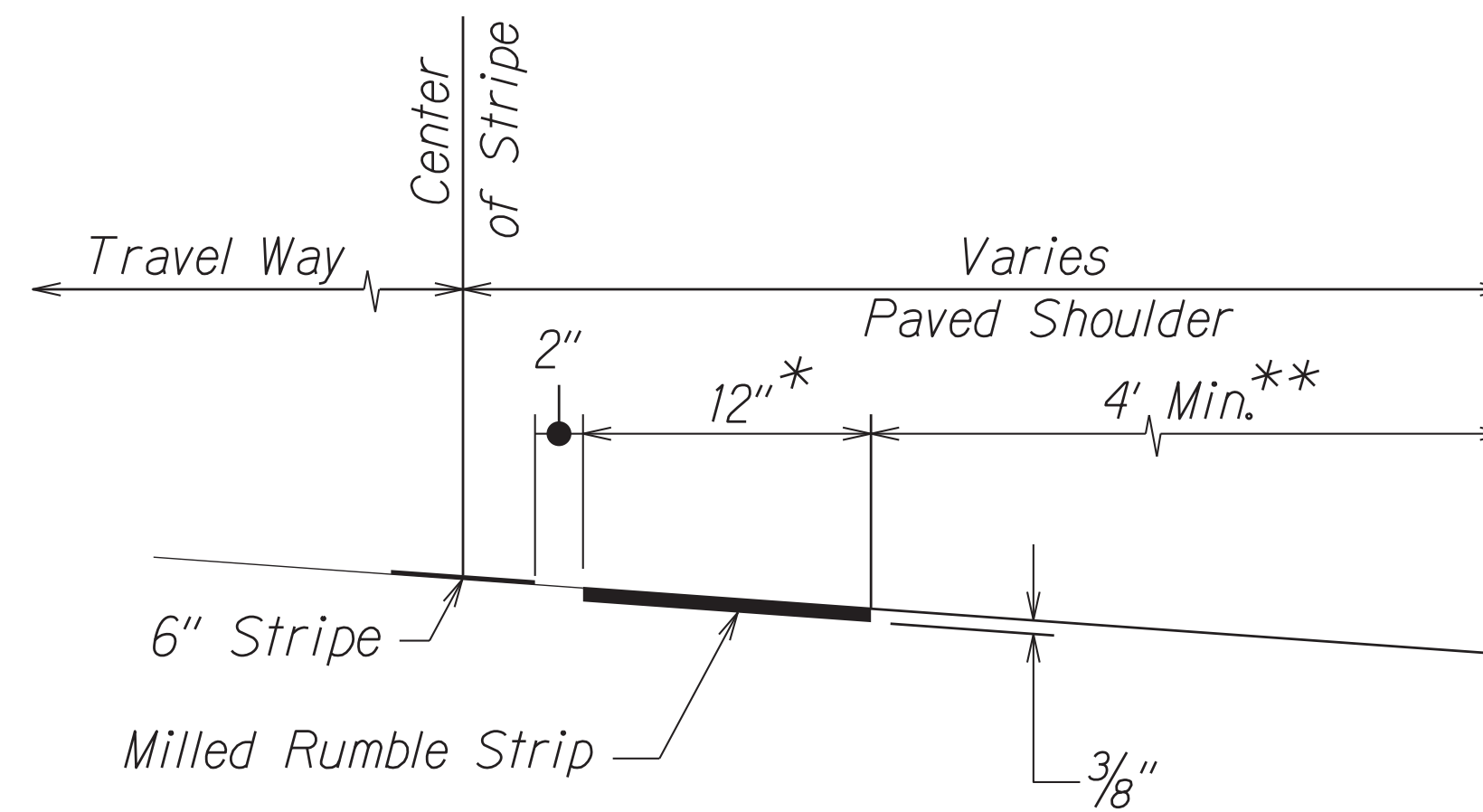
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(028)	2022	41	42



PLAN - BICYCLE FRIENDLY SHOULDER MILLED RUMBLE STRIP
Not to Scale



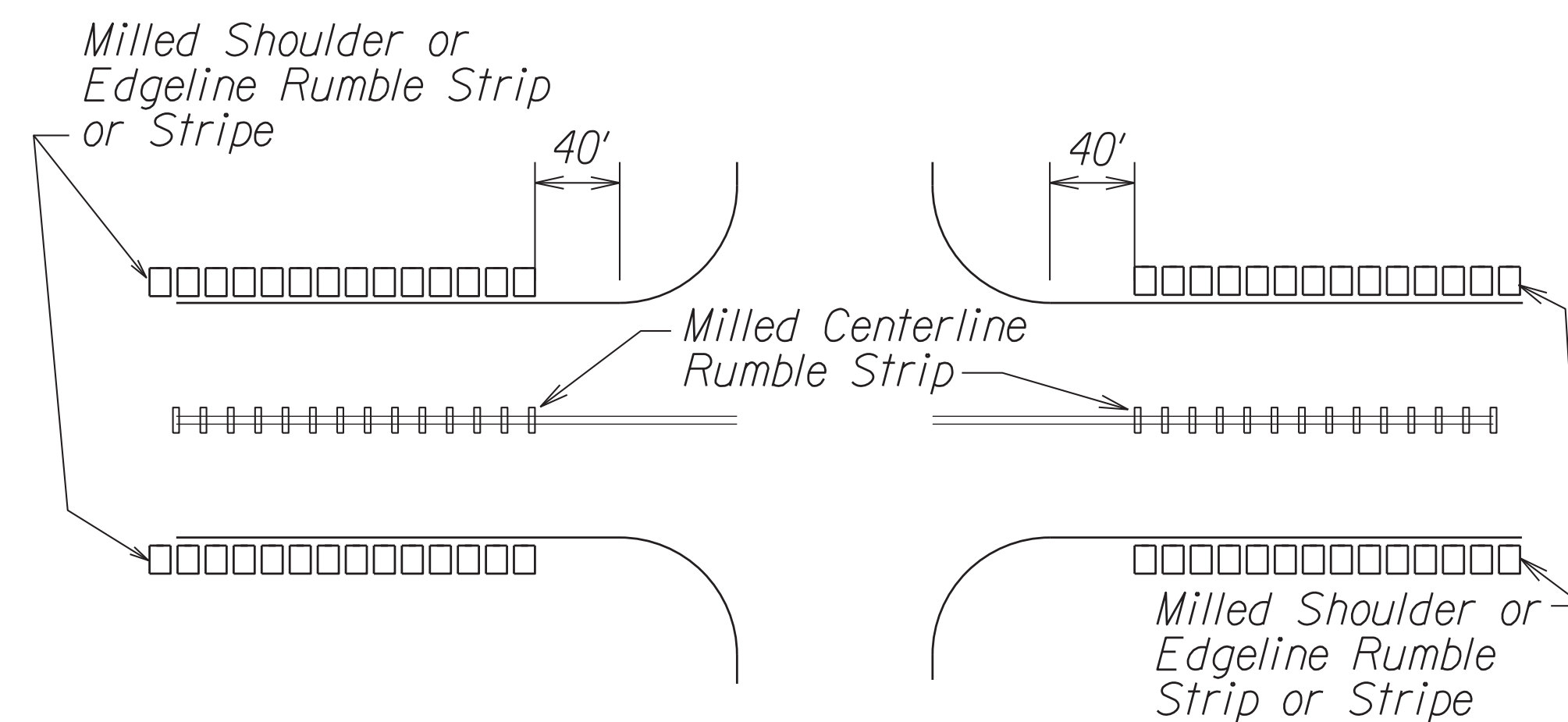
CROSS SECTION - CONTINUOUS SHOULDER MILLED RUMBLE STRIP
Not to Scale



SECTION A-A
Not to Scale

NOTES:

1. Bicycle Friendly shoulder milled rumble strip shall not be installed where shoulder serves a a part time shoulder lane.
- **2. Bicylc Friendly shoulder milled rumble strip should not be used unless 4 feet of clear shoulder width for bicycle use is available between the rumble strips and the outer edge of the paved shoulder.
- *3. Length of rumble strip may be reduced from 12" to 6" minimum where needed to meet clearance. Designer is required to coordinate with HWY-T for shoulder milled rumble strip design that is less than 12" in length.
4. Do not place Type "C" markers within 2 feet of the 13 feet Rumble Strip opening.
5. For median shoulders, install continuous milled shoulder rumble strip.
6. Where at-grade bridges are present, rumble strip shall end/begin 20 L.F. beyond the existing bridge deck joints/concrete approach slab.
7. The construction of the Shoulder Rumble Strip shall be paid for under Item No. 615.0400 - 12-inch Milled Rumble Strip, Bicycle Friendly Shoulder.
8. The milling apparatus will not be paid for separately and shall be considered incidental to the various Milled Rumble Strip items.



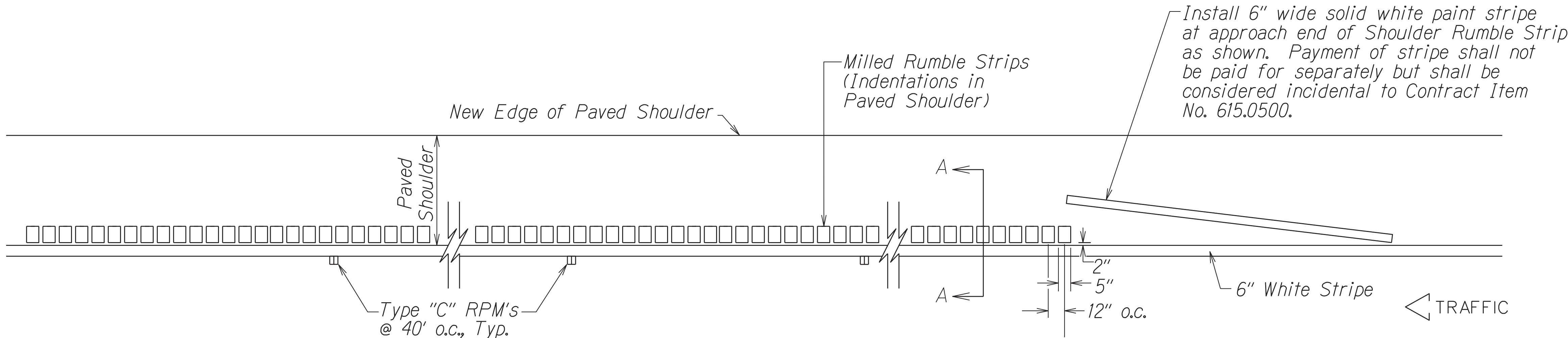
INSTALLATION LIMITS
Not to Scale

BICYCLE FRIENDLY SHOULDER MILLED RUMBLE STRIPS
(DIVIDED HIGHWAY/MEDIAN SHOULDER)

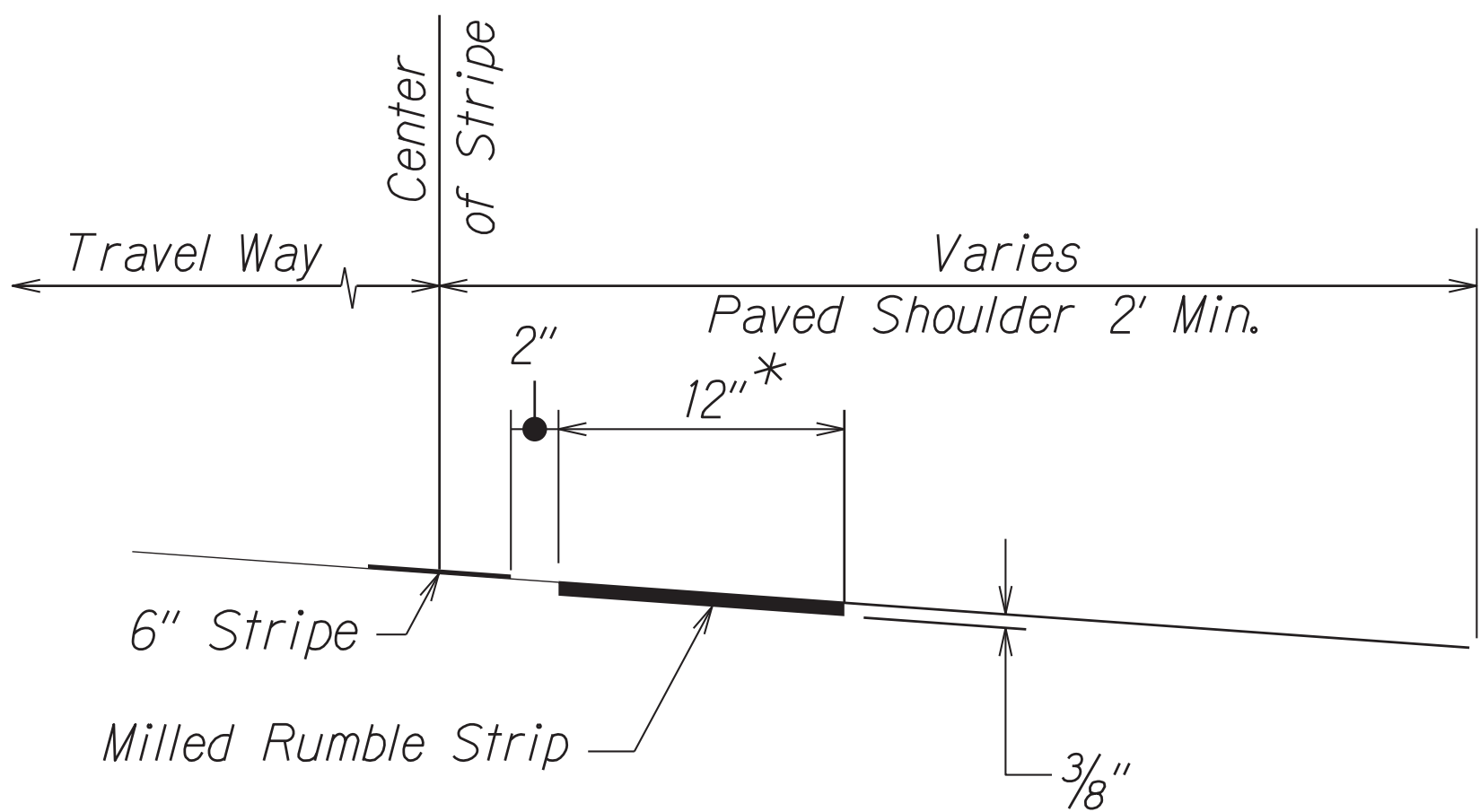
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>BICYCLE FRIENDLY SHOULDER</u>	
<u>MILLED RUMBLE STRIP DETAILS</u>	
<u>HALEAKALA HIGHWAY RECONSTRUCTION</u>	
<i>North Firebreak Road to Old Haleakala Highway</i>	
<i>Fed. Aid Proj. No. NH-037-1(028)</i>	
<i>Not To Scale</i>	<i>Date: March 2022</i>
SHEET No. <i>T21</i> OF <i>22</i> SHEETS	

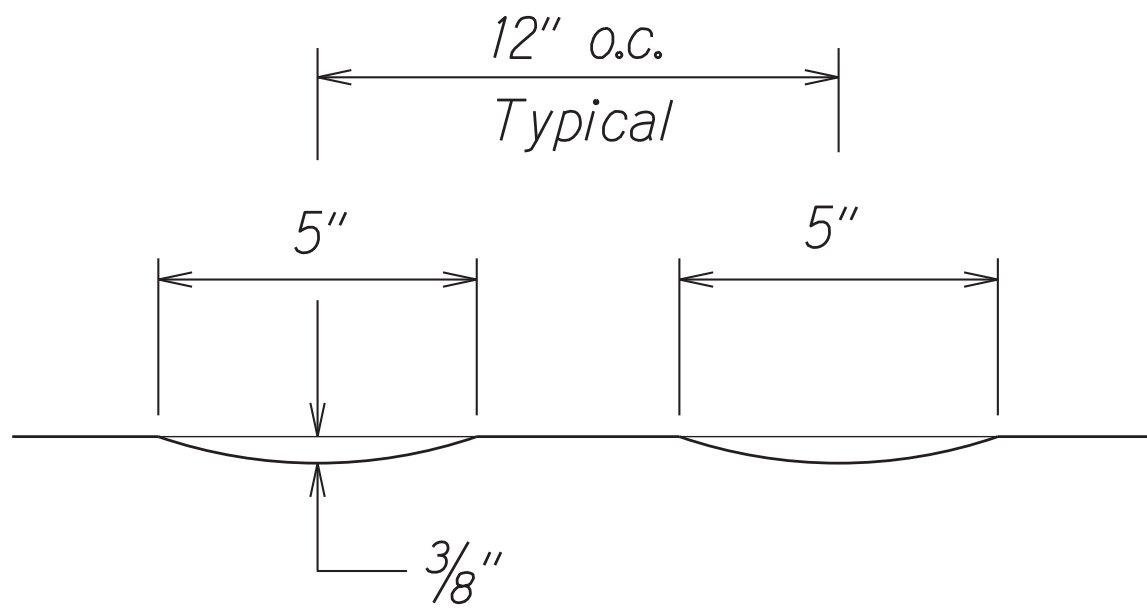
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-037-1(028)	2022	42	42



PLAN - CONTINUOUS SHOULDER MILLED RUMBLE STRIP
Not to Scale



SECTION A-A
Not to Scale



CROSS SECTION - CONTINUOUS SHOULDER MILLED RUMBLE STRIP
Not to Scale

NOTES:

1. Continuous shoulder milled rumble strip shall not be installed where shoulder serves as a part time shoulder lane.
- *2. Length of rumble strip may be reduced from 12" to 6" minimum where needed to meet clearance. Designer is required to coordinate with HWY-T for milled shoulder rumble strip design that is less than 12" in length.
3. Continuous shoulder milled rumble strips should not be installed where paved shoulder is less than 2 feet.
4. Where at-grade bridges are present, rumble strip shall end/begin 20 L.F. beyond the existing bridge deck joints/concrete approach slab.
5. The construction of the Shoulder Rumble Strip shall be paid for under Item No. 615.0500 - 12-inch Milled Rumble Strip, Continuous Shoulder.
6. The milling apparatus will not be paid for separately and shall be considered incidental to the various Milled Rumble Strip items.

CONTINUOUS SHOULDER MILLED RUMBLE STRIPS
(DIVIDED HIGHWAY/MEDIAN SHOULDER)

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**CONTINUOUS SHOULDER
MILLED RUMBLE STRIP DETAILS**

HALEAKALA HIGHWAY RECONSTRUCTION
North Firebreak Road to Old Haleakala Highway

Fed. Aid Proj. No. NH-037-1(028)

Not to Scale Date: March 2022

SHEET No. T22 OF 22 SHEETS