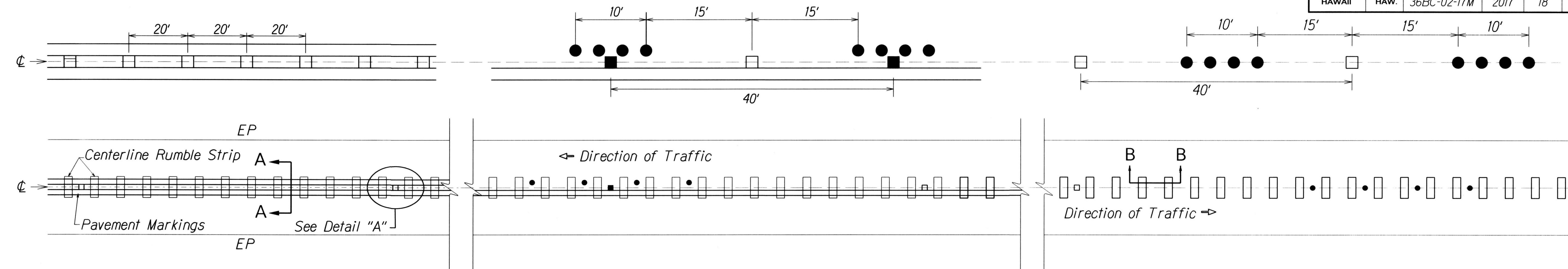
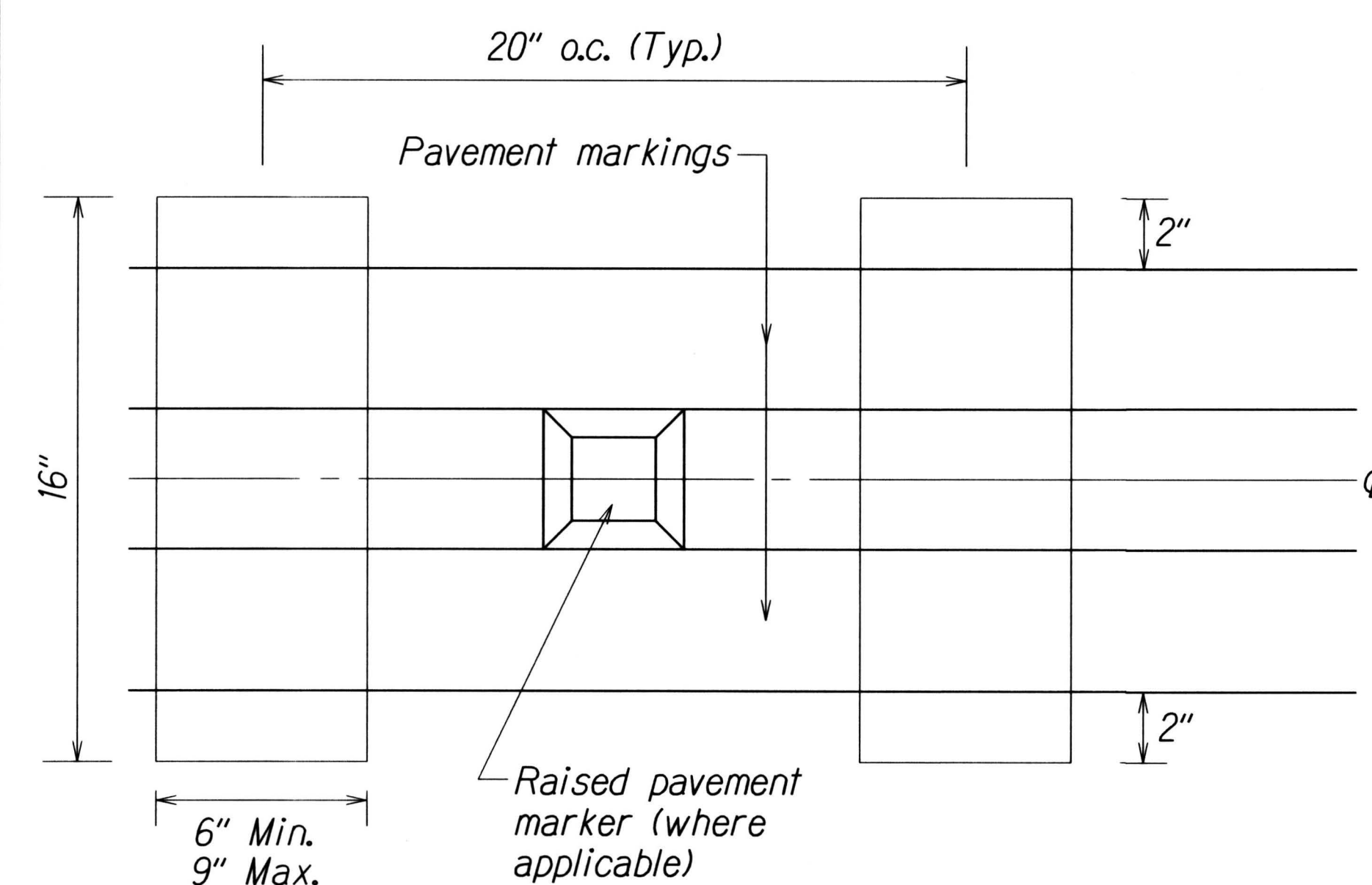


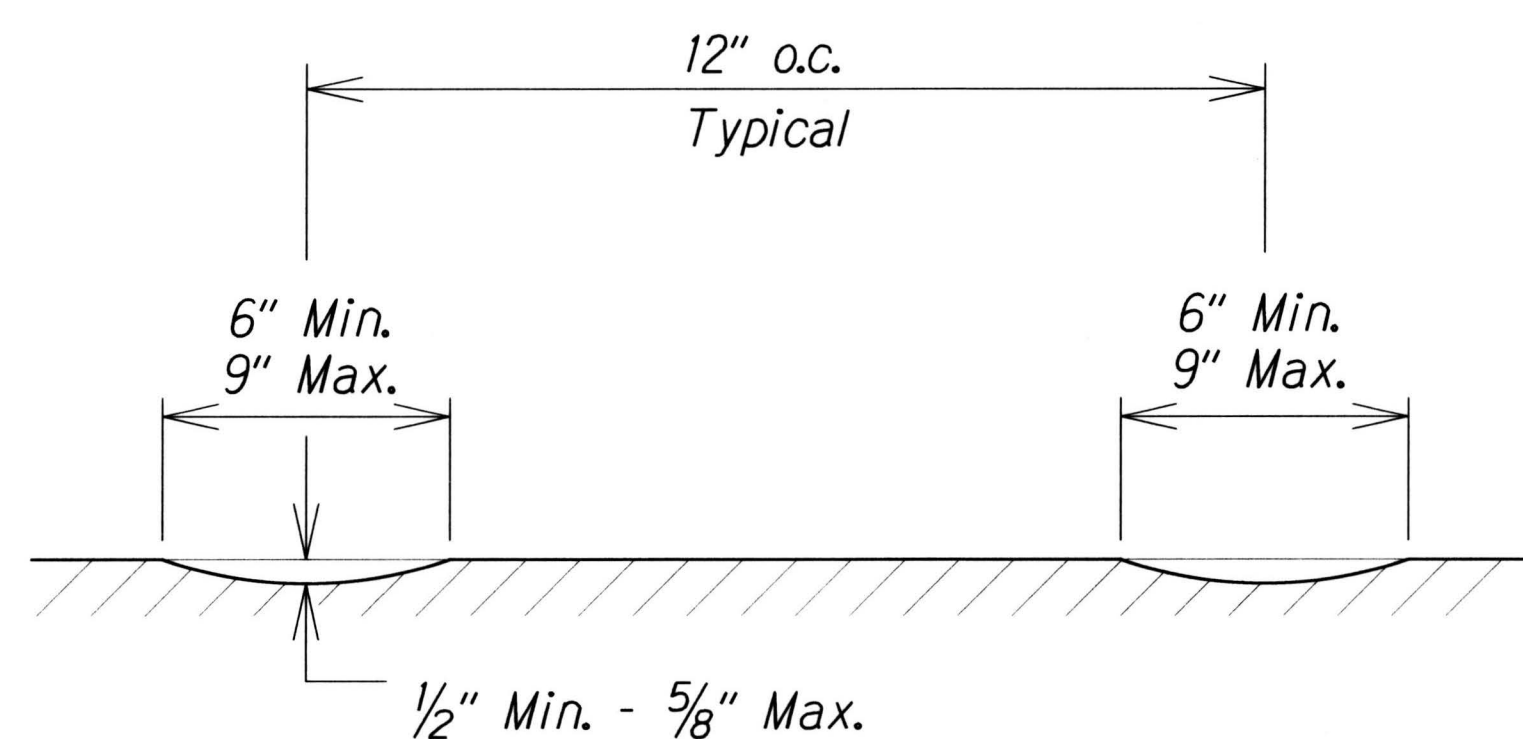
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36BC-02-17M	2017	18	42



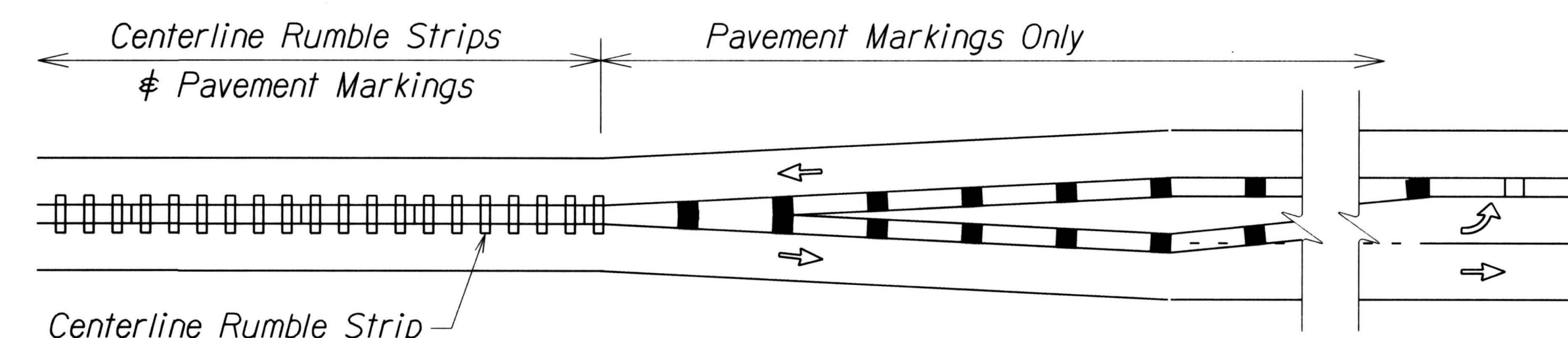
**PLAN - CENTERLINE MILLED RUMBLE STRIP**  
Not to Scale



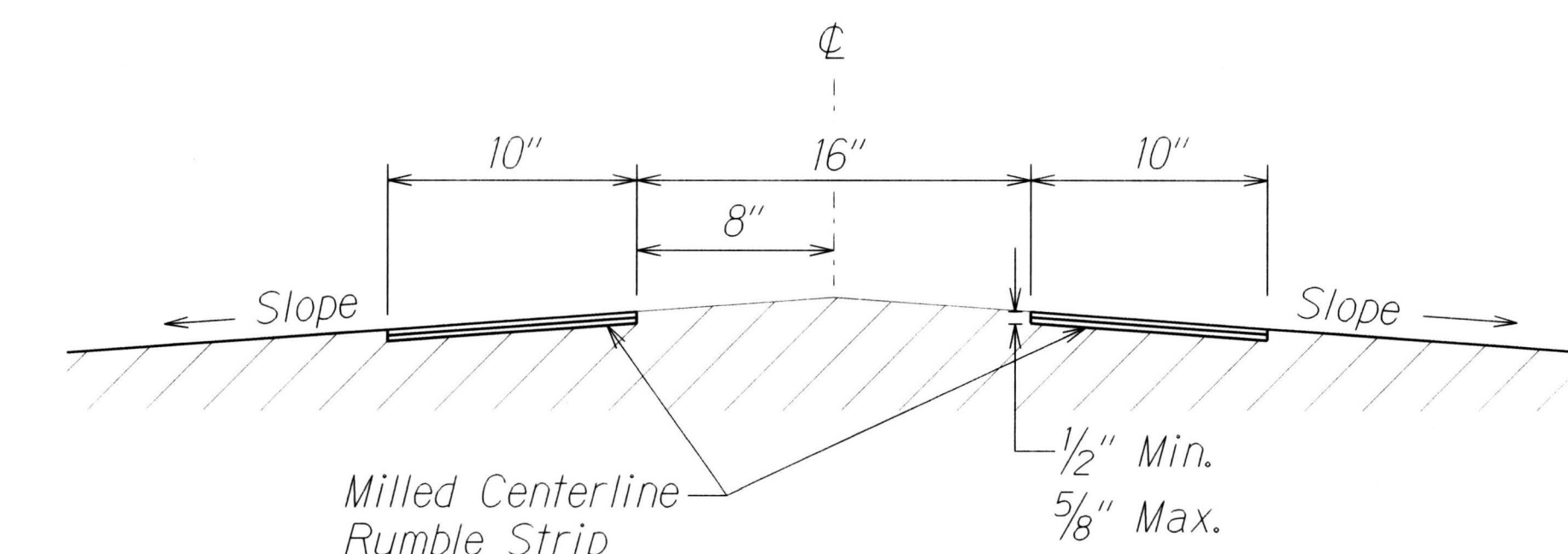
**DETAIL "A"**  
Not to Scale



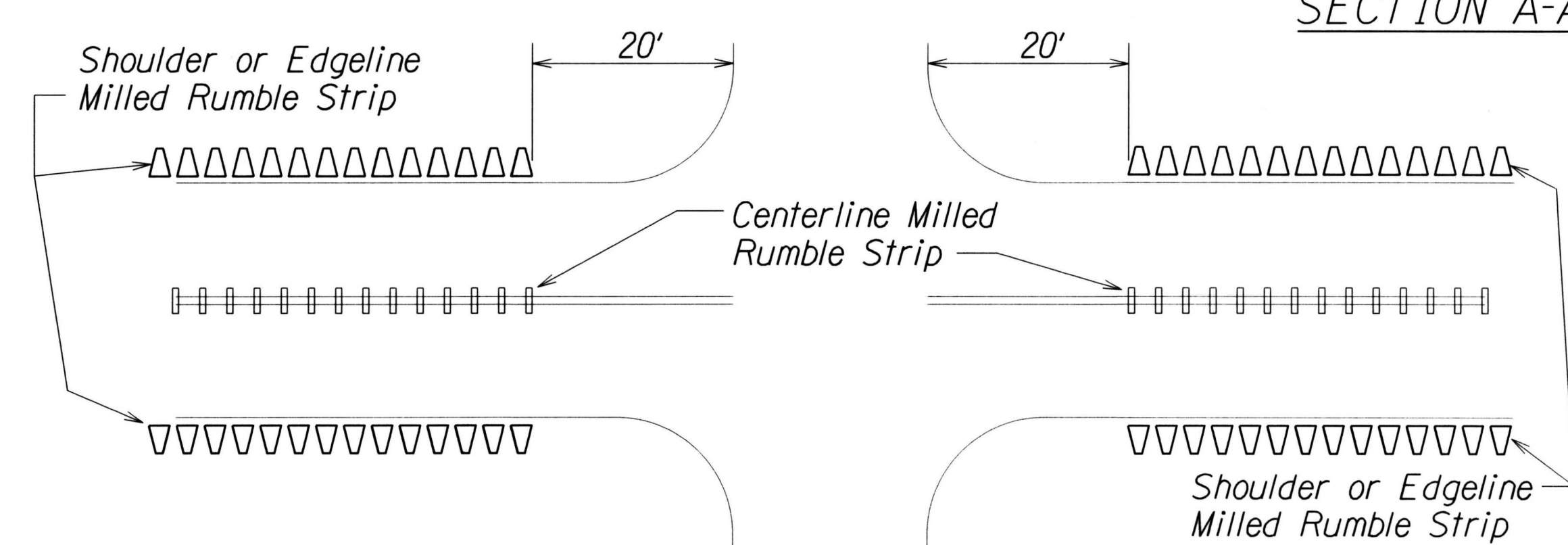
**SECTION B-B - CENTERLINE MILLED RUMBLE STRIP**  
Not to Scale



**CENTERLINE MILLED RUMBLE STRIP INSTALLATION LIMIT**  
Not to Scale



**SECTION A-A - CENTERLINE MILLED RUMBLE STRIP**  
Not to Scale



**MILLED RUMBLE STRIP INSTALLATION LIMITS**  
Not to Scale

**NOTES:**

1. The method of constructing the centerline milled rumble strip shall be submitted to the Engineer for acceptance prior to the actual work.
2. Dimensions shown are approximate. Adjust rumble strip spacing to coordinate with pavement markings prior to installation.
3. Raised pavement markers shall be installed on level surface between the rumble strips. Do not install raised pavement markers inside the milled area.
4. The construction of the centerline milled rumble strip shall be paid for under Item No. 615.0100 - 16-inch Milled Rumble Strip, Centerline.
5. The milling apparatus and removal of existing pavement markings will not be paid for separately and shall be considered incidental to Item 615.0100 - 16-Inch Milled Rumble Strip, Centerline.
6. Do not install centerline rumble strips on bridge decks.
7. Where at-grade bridges are present, rumble strips shall end/begin 20 L.F. beyond the existing bridge deck joints/concrete approach slab.
8. Hot spray thermoplastic shall be used for solid line markings within the milled centerline rumble strip area.

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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CENTERLINE MILLED RUMBLE STRIP DETAIL**

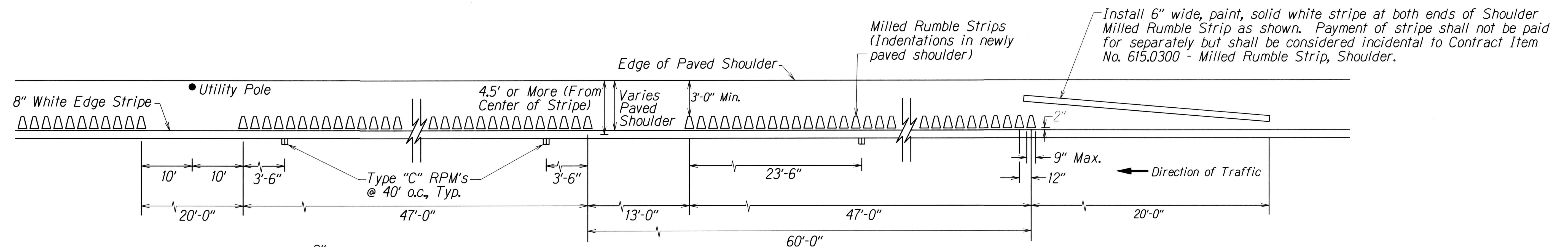
HANA HIGHWAY RESURFACING  
Hookipa Park to Kaupakalua Road  
Project No. 36BC-02-17M

Scale: As Shown Date: February, 2017

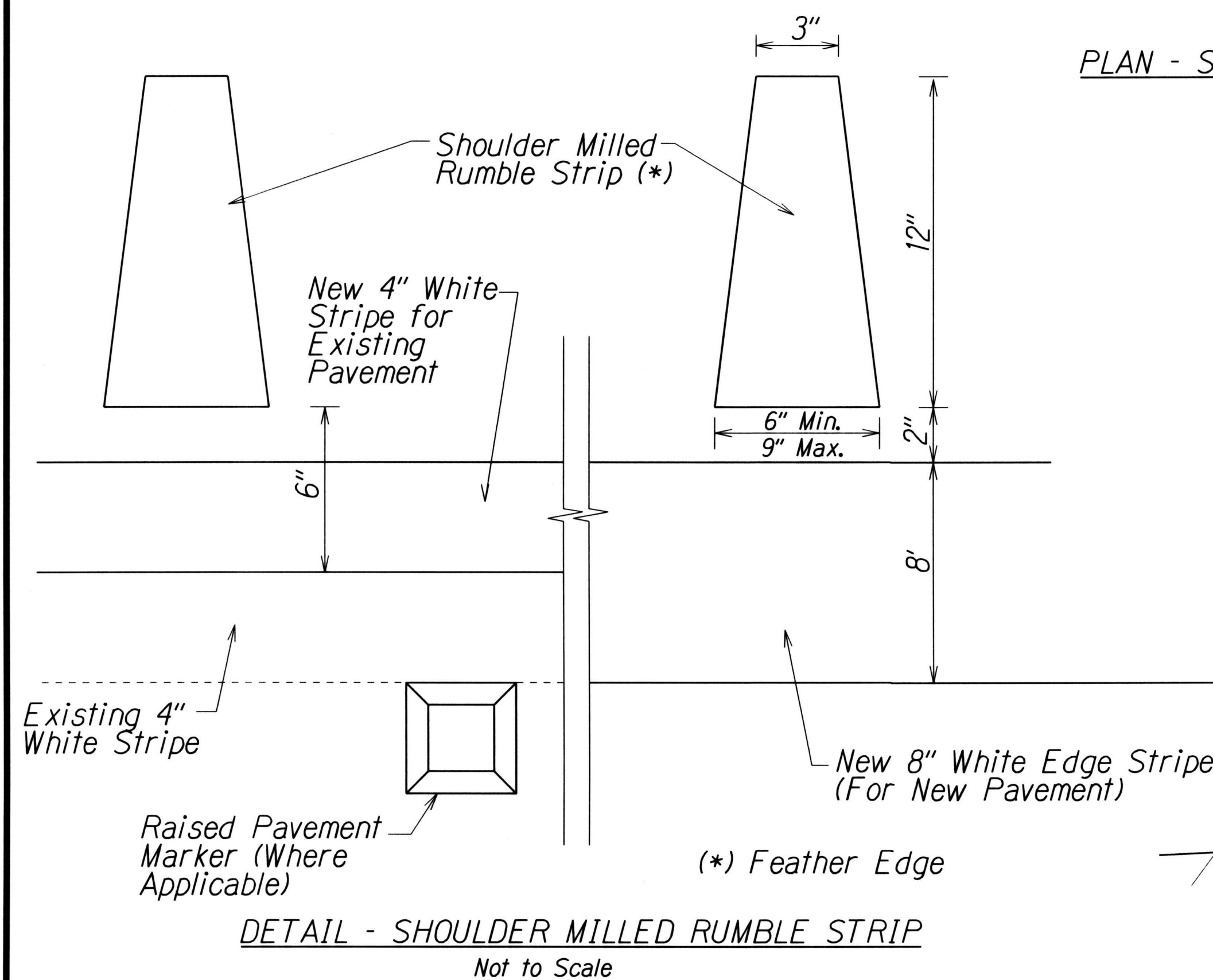
SHEET No. 1 OF 2 SHEETS



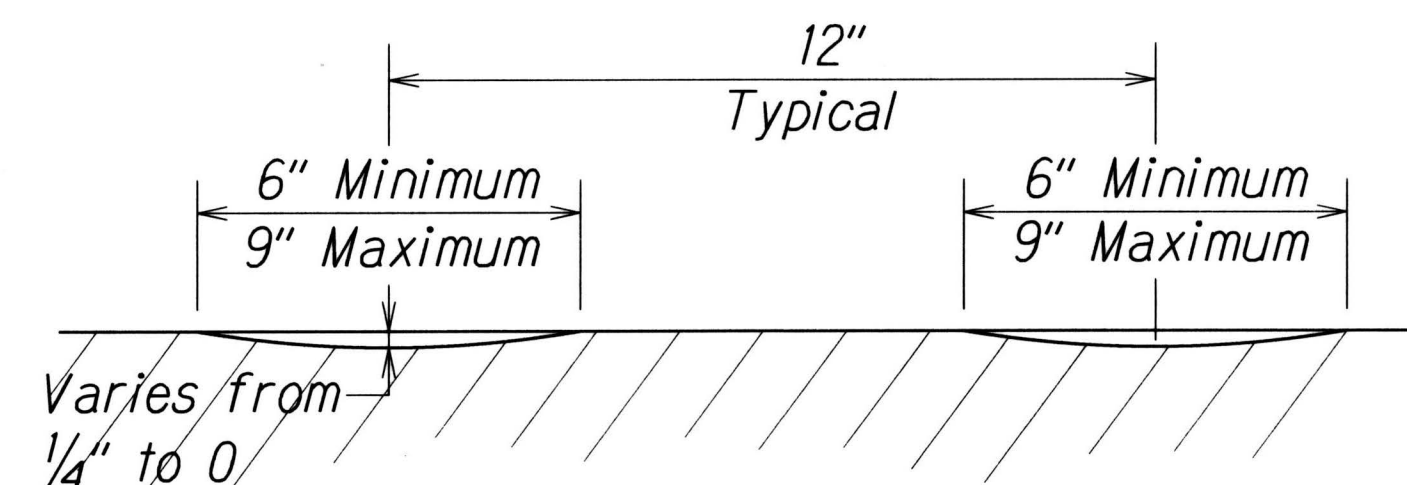
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36BC-02-17M	2017	19	42



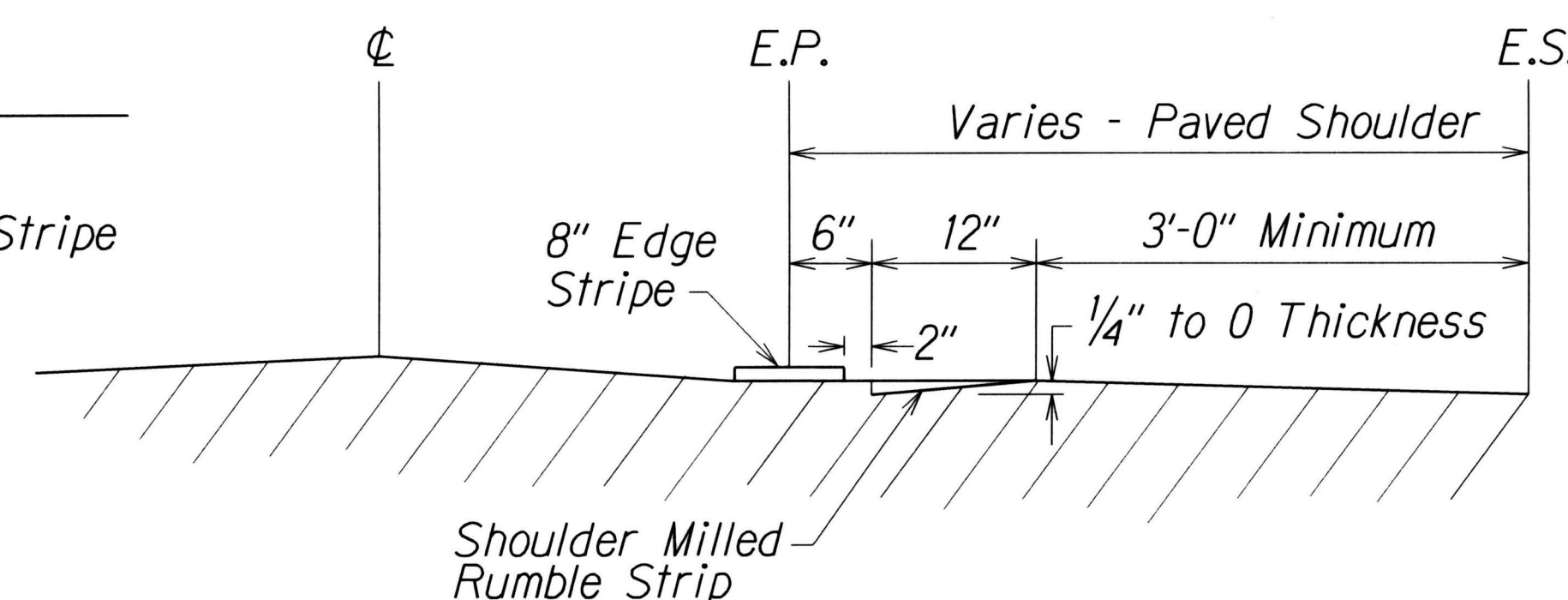
PLAN - SHOULDER MILLED RUMBLE STRIP  
Not to Scale



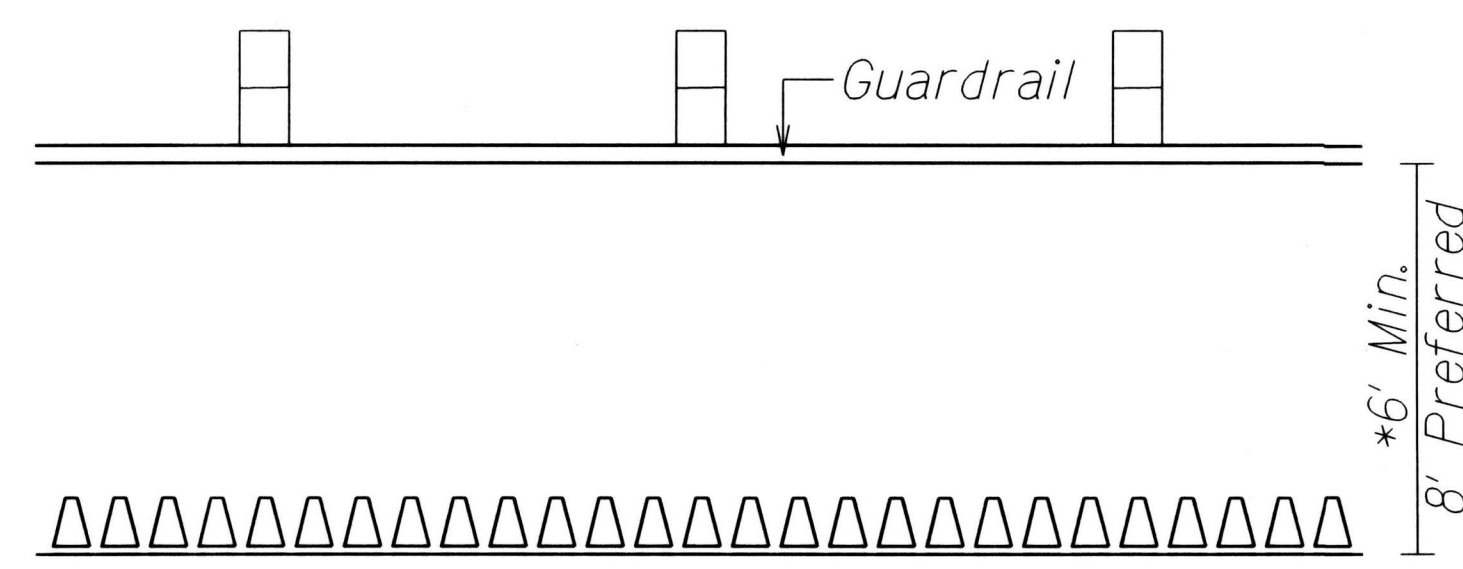
DETAIL - SHOULDER MILLED RUMBLE STRIP  
Not to Scale



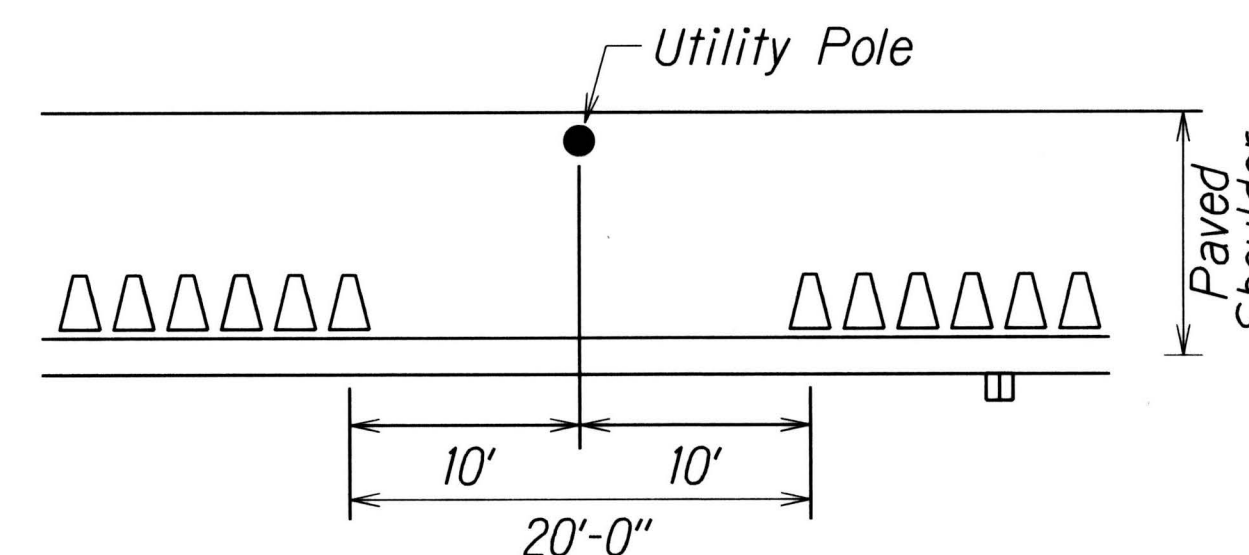
CROSS SECTION - SHOULDER MILLED RUMBLE STRIP  
Not to Scale



LONGITUDINAL SECTION - SHOULDER MILLED RUMBLE STRIP  
Not to Scale



DETAIL - CONDITION WHERE GUARDRAIL EXISTS  
Not to Scale



DETAIL - CONDITION WHERE UTILITY POLE EXISTS  
Not to Scale

NOTES:

- Shoulder milled rumble strips shall be installed where the existing condition of the shoulder are 4.5' or more from center of edge stripe.
- The method of constructing the shoulder milled rumble strip shall be submitted to the Engineer for acceptance prior to the actual work.
- Dimensions shown are approximate. Adjust rumble strip spacing to coordinate with pavement marking prior to installation.
- Raised pavement markers shall be installed on level surface between the rumble strips. Do not install raised pavement markers inside the milled area.
- The construction of the edgeline milled rumble strip and 13-foot gaps shall be paid for under Item No. 615.0300 - Milled Rumble Strip, Shoulder. The milling apparatus, 20 L.F. - 6" white stripe, and removal of existing pavement markings will not be paid for separately and shall be considered incidental to Item 615.0300 - Milled Rumble Strip, Shoulder.
- Rumble strips shall be installed along all shoulders, except at right turn deceleration and acceleration lanes, as noted on the plans.
- Do not place Type "C" Raised Pavement markers within 2 ft. of the 13 ft. Rumble Strip opening.
- Do not install edgeline rumble strips on bridge decks.
- Where at-grade bridges are present, rumble strips shall end/begin 20 L.F. beyond the existing bridge deck joints/concrete approach slab.
- Rumble Strips are to be installed after the edge of pavement stripe and before the installation of the Type "C" raised pavement markers.
- Pre-formed pavement striping tape or hot spray thermoplastic shall be used for solid line markings within the shoulder milled rumble strip area.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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NOTE BOOK		
QUANTITIES BY		
CHECKED BY		

\*If shoulder width is less than 6', do not install shoulder rumble strip where guardrail exists.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SHOULDER MILLED RUMBLE STRIP**  
**DETAIL FOR SHOULDER 4.5' OR MORE**

HANA HIGHWAY RESURFACING  
Hookipa Park to Kaupakalua Road  
Project No. 36BC-02-17M

Scale: As Shown Date: February, 2017

SHEET No. 2 OF 2 SHEETS