

**TOWN OF PARADISE
TOWN COUNCIL POLICY FOR INSTALLATION
OF SPEED UNDULATIONS IF ALL THE FOLLOWING
CONDITIONS ARE MET**

The street is a local residential street.

The street segment is between 1,000 and 2,000 feet without interruption.

Existing or planned traffic volume is less than 1,000 vehicles per day.

The street does have less than two lanes in each direction.

The street is not considered a major emergency vehicle route.

The street is not a truck or bus route.

If undulations are installed it can be expected that traffic will not be diverted to another residential street.

There is a petition signed by at least 51% of the residents on the street.

Proponents (residents) are willing to pay for the installation and maintenance including signs.

Identifiable speeding problem

- a. Existing speed limit _____ mph
- b. Per cent of drivers over _____ mph (a. + 5 mpg)
- c. Is b. greater than 20%? ____ yes ____ no speeding problem

27. Roadside Signs

Description of Work: Roadside signs shall be installed at the locations shown on the plans or where directed by the Engineer, and shall conform to the provisions in Section 56-2, "Roadside Signs," of the Standard Specifications and these Special Provisions. Material for roadside sign posts shall be metal in accordance with Section 56-2.02A "Metal Posts" of the Standard Specifications. Sign panels shall be furnished by the Contractor.

All backgrounds, borders, letters, numerals, shields, and arrows on all permanent signs shall be constructed of encapsulated lens reflective sheeting. All signs shall be manufactured with encapsulated lens sheeting. The reflective sheeting shall conform to the requirements for encapsulated lens sheeting as found in the California Department of Transportation publication, "SPECIFICATIONS FOR REFLECTIVE SHEETING ALUMINUM SIGNS," dated July 1985. The Contractor shall provide certification that the sheeting not only conforms to Caltrans standards but also carries the manufacturer's ten year warranty.

- (1) Signs: Signs in advance of the speed undulations shall read "Bump Ahead." Signs at the speed undulations shall read "Bump." A "15 MPH" speed sign shall be placed below each "Bump Ahead" and "Bump" sign.

Measurement and Payment: The price paid for roadside signs shall be included in the contract price paid for Pavement Undulations, and no separate payment shall be made thereof.

28. Pavement Undulations

Description of Work: Pavement undulations shall consist of completing the necessary grinding of the existing asphalt surface or excavation and placing asphalt concrete pavement to the shape and thickness as shown on the plans herein specified in these Special Provisions. The plans are incorporated into the Special Provisions as Exhibit "A", Sheets 1 through 1 and Exhibit "B", Sheet 1 of 1.

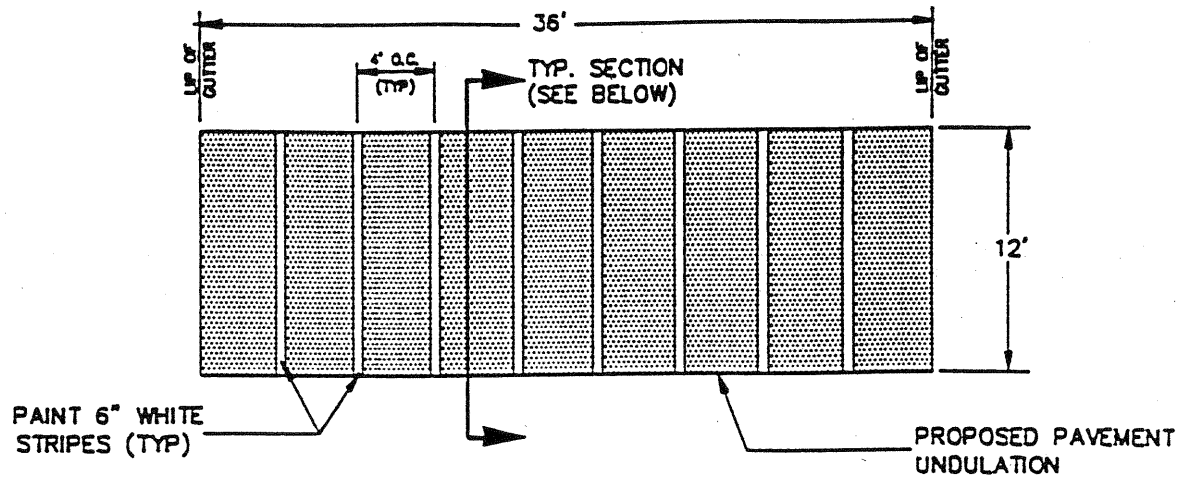
Each pavement undulation shall be done in two (2) asphalt concrete lifts. No lift shall be greater than two (2) inches thick.

- (1) **Prime Coat and Paint Binder:** A prime coat or a paint binder of asphaltic emulsion shall be applied to pavement to be surfaced and to contact surfaces of cold pavement joints, curbs, gutters, and other surfaces as designated by the Engineer. If paving asphalt is used in lieu of asphaltic emulsion, the paving asphalt shall be applied at a temperature of not less than 285 F nor more than 350 F. Prime coat shall be SC-250.
- (2) **Asphalt Concrete:** Asphalt concrete shall conform to Section 39 of the Standard Specifications. Asphalt concrete shall be Type B, AR 4000, 1/2 maximum, medium grading, with an approximate oil content of six (6) percent or as designated by the Engineer.
- (3) **Striping:** Painted stripes on pavement undulations shall conform to Section 84-3 of the Standard Specifications.

Measurement: Pavement undulations shall be measured per lineal foot. Measurement for new undulations shall be along the centerline from outside edge to outside edge. Measurement for undulation modifications shall be the overall widened width of the undulation from inside edge of new pavement to outside edge of new pavement as measured along the undulation centerline.

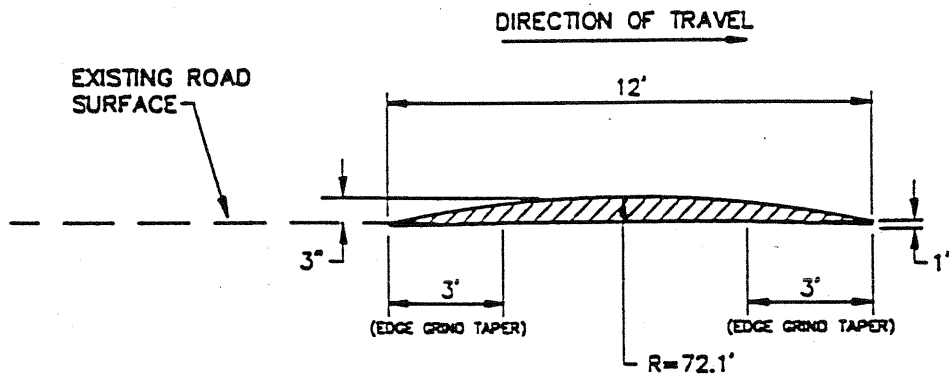
Payment: The contract price paid per linear foot for pavement undulation shall include full compensation for furnishing all labor, materials, tools, and equipment and doing all the work involved to complete the grinding of

existing asphalt concrete surfacing, excavation, placing the aggregate base, placing the asphalt concrete pavement undulation or pavement undulation modifications, painting stripes, removal of concrete, and furnishing and installing roadside signs, complete in place as herein specified, and all incidental work connected therewith.



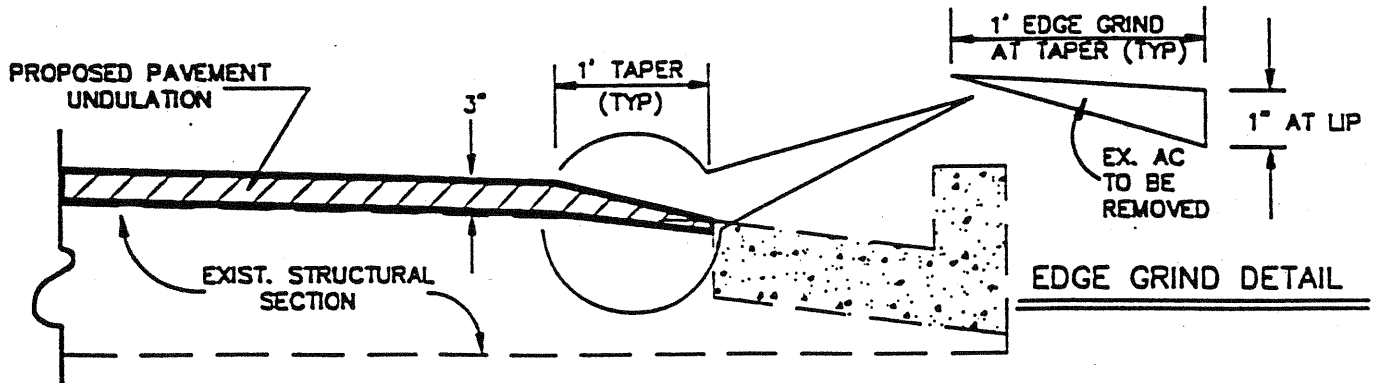
UNDULATION STRIPING DETAIL

(NO SCALE)



UNDULATION TYP. SECTION

(NO SCALE)



TYP. SHOULDER & EDGE GRIND DETAIL

(NO SCALE)

DEPARTMENT OF PUBLIC WORKS

DRAWN BY: CR DATE: FEB. 1996
 CHECKED BY: TCK SCALE: NONE
 APPROVED: DIRECTOR OF PUBLIC WORKS

PAVEMENT UNDULATION DETAILS

EXHIBIT

SHEET 1 OF 1