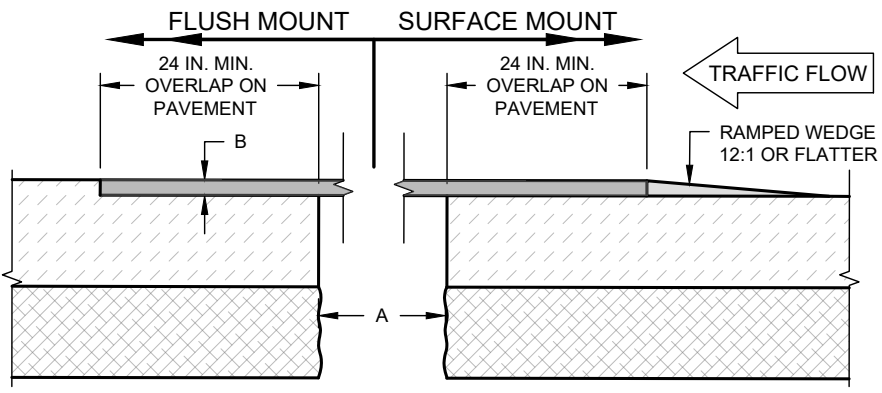


**PLAN VIEW**



**SECTION A-A**

**SECTION B-B**

**STEEL PLATE DETAILS**

(NO SCALE)

**NOTES:**

- FOR TRENCH WIDTHS EQUAL TO OR GREATER THAN 5 FT. STEEL PLATE AND SUPPORT SYSTEM SHALL BE DESIGNED, SEALED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS. DESIGN SHALL BE APPROVED BY THE CITY PRIOR TO USE.
- STEEL PLATES SHALL CONFORM TO ASTM A36 STANDARDS.
- ADEQUATELY SHORE THE TRENCH TO SUPPORT THE BRIDGING AND TRAFFIC LOADS.
- PLATES SHALL BE PLACED PARALLEL TO TRAFFIC FLOW.
- FINAL PLATE CONFIGURATION SHALL OVERLAP ALL EDGES OF TRENCH A MINIMUM OF 24 IN. IF APPURTENANCE SUCH AS LIP OF GUTTER IS ENCOUNTERED, THEN EDGE OF PLATE SHALL BE PLACED FLUSH TO VERTICAL PROJECTION OF EDGE OF APPURTENANCE FOR SURFACE MOUNT METHOD AND DESIGN BE SUBMITTED BY ENGINEER FOR FLUSH MOUNT.
- INSTALL STEEL PLATE BRIDGING AND SHORING USING THE APPROPRIATE METHOD BELOW:  
**FLUSH MOUNT:** FOR SPEEDS GREATER THAN 45 MPH, AND AT CONTRACTOR'S OPTION FOR SPEEDS 45 MPH OR LESS, SAWCUT EDGES AND MILL THE PAVEMENT TO A DEPTH EQUAL TO THE THICKNESS OF THE PLATE AND TO A WIDTH AND LENGTH EQUAL TO THE DIMENSION OF THE PLATE. BUTT SUBSEQUENT PLATES TO EACH OTHER AND WELD 2 IN. IN LENGTH SPACED AT 18 IN. MAX. APART. MAXIMUM VERTICAL DIFFERENCE BETWEEN EDGE OF STEEL PLATE AND ADJACENT EDGE OF TOP OF PAVEMENT SHALL BE 1/2 IN. MAXIMUM HORIZONTAL GAP BETWEEN EDGE OF PLATE AND VERTICAL EDGE OF SAW CUT SHALL BE 1 IN. WITH ANY WIDTH EXCEEDING 1/2 IN. FILLED WITH HOT-MIX ASPHALT CONCRETE OR COLD-MIX.  
**SURFACE MOUNT:** FOR SPEEDS 45 MPH OR LESS, PLACE THE PLATE ON THE ROADWAY AND BUTT SUBSEQUENT PLATES TO EACH OTHER AND WELD 2 IN. IN LENGTH SPACED AT 18 IN. MAX. APART. USE COMPACTED HOT-MIX ASPHALT CONCRETE OR COLD-MIX ASPHALT CONCRETE TO FORM A RAMP WEDGE WITH A MAXIMUM SLOPE OF 12:1 TO COVER ALL TRAFFIC FLOW EDGES OF STEEL PLATES.
- FOR TRENCHES RUNNING NON-PERPENDICULAR TO THE FLOW OF TRAFFIC, PERIMETER OVERLAP REQUIREMENTS REMAIN AS PRESENTED FOR BOTH FLUSH MOUNT AND SURFACE MOUNT.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF STEEL PLATES, SHORING, ASPHALT CONCRETE RAMPS, AND ENSURING THEY MEET ALL MINIMUM SPECIFICATIONS. DEFORMATIONS OF ANY KIND ARE NOT ACCEPTABLE ON STEEL PLATES. EXAMPLES OF DEFORMATIONS INCLUDE, BUT ARE NOT LIMITED TO, ANY OF THE FOLLOWING: CLIPS, CHAINS, ATTACHMENTS, WELDMENTS, AND SURFACE IRREGULARITIES.

TRENCH WIDTH DIMENSION A	MINIMUM STEEL PLATE THICKNESS DIMENSION B
< 5 FT.	1 IN.
≥ 5 FT.	SEE NOTE #1

MINIMUM DIMENSIONS OF PLATE SHALL BE 8 FT. WIDE X (A + 4 FT.) LONG



**ENGINEERING DIVISION**

**DISCLAIMER:** THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

REVISIONS			
NO.	COMMENTS	BY	DATE
1	MODIFY DETAIL NAME	MZ	11/15/2024
##	DESCRIPTION	FL	MM/DD/YYYY

DATE  
01/01/2024

**ST-38**