# STEEL SHEET PILE WALL, CANTILEVER DATA TABLE

**Table Date:** 07-01-12

| WALL LOCATION | STATION (begin to end) | OFFSET (ft) | A-328 (ksi) (fy=39 ksi) | A-ST2 (ksi) (fy=50 ksi) | MINIMUM SECTION MODULUS (in^3/ft) | MINIMUM REQUIRED MOMENT OF INERTIA (in^4/ft) | MINIMUM WALL TIP ELEVATION (ft) | WALL TOP ELEV. (ft) | SOIL ELEVATION ** | WATER ELEVATION ** | ** FRONT OF WALL (ft) | BACK OF WALL (ft) | BACK OF WALL (ft) | DESIGN LIVE LOAD (psf) |
|---------------|-----------------------|-------------|-------------------------|-------------------------|---------------------------------|-----------------------------------|---------------------------------|-------------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|------------------|

* Minimum Section Modulus is based on Hot Rolled Sections. For Cold Rolled Sections, increase Minimum Section Modulus by 20%.

** Minimum of Design Ground Surface of Design Scour Depth.

**NOTES:**

1. Wall deflections will cause distress of adjacent pavement during construction. The Contractor shall maintain pavement conditions behind the sheet pile walls during construction. The cost of maintaining adjacent pavement shall be included in the cost of the Temporary Steel Sheet Pile Wall.

2. The Design Parameters indicated in this table were used in the sheet pile wall analysis. If the Contractor plans operations which exceed the design parameters shown above, the Contractor's Specialty Engineer will redesign the wall to resist construction loads at a maximum deflection of ______ inches.

3. Environmental Classification is _________ (Delete note for Temporary Walls)

4. Concrete for Cast-In-Place Retaining Wall Cap shall be Class _______. (C'c = ______ psi) ________ (with/without) silica fume, metakaolin or ultrafine fly ash. (Delete note for Temporary Walls)

5. Coastal exposed surface of steel sheet piles to 5 feet below the Front Of Wall Soil Elevation (**), with coastal tar-epoxy in accordance with Specification Section 560. (Delete note for Temporary Walls)
### STEEL SHEET PILE WALL WITH DEAD MAN ANCHORS DATA TABLE

#### CONSTRUCTION INFORMATION

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<thead>
<tr>
<th>WALL LOCATION</th>
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<th>SHEET PILES</th>
<th>DESIGN PARAMETERS</th>
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</thead>
<tbody>
<tr>
<td>WALL SIZE</td>
<td>ANCHOR SPACING (ft)</td>
<td>ANCHOR BAR DIAMETER (in)</td>
<td>* MINIMUM PLASTIC SECTION MODULUS (kN/ft)</td>
</tr>
<tr>
<td>STATION (begin to end)</td>
<td>OFFSET (ft)</td>
<td>A-328 (f_y=39 ksi)</td>
<td>A-372 (f_y=50 ksi)</td>
</tr>
</tbody>
</table>

* Minimum Section Modulus is based on Hot Rolled Sections. For Cold Rolled Sections, increase Minimum Section Modulus by 20%.

** Minimum of Design Ground Surface or Design Scour Depth.

#### NOTES:

1. Wall deflections will cause distress of adjacent pavement during construction. The Contractor shall maintain pavement conditions behind the sheet pile walls during construction. The cost of maintaining adjacent pavement shall be included in the cost of the Temporary Steel Sheet Pile Wall.

2. The Design Parameters indicated in the table were used in the sheet pile wall analysis. If the Contractor plans operations which exceed the design parameters shown above, the Contractor's Engineer of Record will redesign the wall to resist construction loads at a maximum deflection of ____ inches.

3. Environmental Classification is ____ [Delete note for Temporary Walls]

4. Concrete for Cast-In-Place Retaining Wall Caps shall be Class ____ (f’c = ____ psi) ____ (with/without) silica fume, metakaolin or ultrafine fly ash. [Delete note for Temporary Walls]
<table>
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<tr>
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<tr>
<td></td>
<td>MAXIMUM ANCHOR SPACING (ft)</td>
<td>FACTORED ANCHOR LOAD (kips/ft)</td>
<td>SERVICE ANCHOR LOAD (kips/ft)</td>
</tr>
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<td>STATION (begin to end)</td>
<td>OFFSET (ft)</td>
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* Minimum Section Modulus is based on Hot Rolled Sections. For Cold Rolled Sections, increase Minimum Section Modulus by 20%.

** Minimum of Design Ground Surface or Design Scour Depth.

NOTES:

1. Wall deflections will cause distress of adjacent pavement during construction. The Contractor shall maintain pavement conditions behind the sheet pile walls during construction. The cost of maintaining adjacent pavement shall be included in the cost of the Temporary Steel Sheet Pile Wall.

2. The Design Parameters indicated in the table were used in the sheet pile wall analysis. If the Contractor plans operations which exceed the design parameters shown above, the Contractor’s Engineer of Record will redesign the wall to resist construction loads at a maximum deflection of _____ inches.

3. Factored Anchor Design Load = Factored Anchor Load (kips/ft) x Anchor Spacing (ft).

4. Environmental Classification is __________ [Delete note for Temporary Walls]

5. Concrete for Cast-In-Place Retaining Wall Caps shall be Class ________, (f’c = ______, psi) ________ (with/without) silica fume, metakaolin or ultrafine fly ash. [Delete note for Temporary Walls]