**Designer Notes**

Due to maintenance concerns, MSE walls shall not be used for the singular purpose of reducing superstructure. If the grade line cannot be raised, then MSE walls may be used to maintain the superstructure or as an MSE wall backfill. (Circumstances may also justify the use of MSE walls at abutments.)

**Fall Protection**

Fall protection shall be provided. The option provided should be based on the preference of the bridge maintenance and region project staff.

If pipe railing is used, see Exp. 30.26 for applicable notes. Note: Exp. 30.26 is still under development.

**Notes**

- See Exp. 30.26 for applicable notes.
- The design of the wall in front of the abutment shall include the horizontal earth loads and 240 psf live load surcharge acting on the back of the abutments below the beam seats.
- Expansion abutments to be installed to a minimum of the beam seat elevation prior to placing girders.

**Partial Elevation of F.F. Abutment**

Showing eye bolt fall protection option

**Elevation of MSE Wall**

Showing both eye bolt and railing fall protection options

**MSE Wall at Abutment**

Approved: Bill Oliva

Date: 1-18

**Standard 14.04**
**Designer Notes**

The "Preferred MSE Wall at Abutment Configuration" is the preferred option as it separates the MSE Wall from the abutment, minimizing complicated details and potential settlement issues. This advice is more relevant as skew increases.

**Notes**

- Seal all exposed horizontal and vertical surfaces of joint filler. Non-staining, gray, non-bituminous joint filler (e.g., "red") shall be used. Seal all exposed horizontal and vertical surfaces of concrete.

**MSE Wall at Abutment**

- **Preferred MSE Wall at Abutment Configuration**
  - "W" Wall angle required for "W" parallel to abutment centerline.

- **Alternate MSE Wall at Abutment**
  - With Wrapped MSE Wall
  - "W" not required.

**Plan View of Alternate MSE Wall at Abutment with Closure Wall**

- For Type A Semi-Exp. Abut., extend polyethylene sheeting over entire length of closure wall.

**Approved by**

Bill Oliva

**Date:** 7-17

**Standard:** 14.05
DESIGNER NOTE
SEE STANDARD PLANS FOR ADDITIONAL INFORMATION

BUREAU OF STRUCTURES
MSE WALL PANEL
AND BLOCK FACING

STANDARD 14.11

Bill Oliva
APPROVED 1-20
TYPICAL WALL PANEL CONNECTION - PLAN VIEW

ALL ITEMS SHOWN ARE INCLUDED IN THE BID FOR PRESTRESSED PRECAST CONCRETE WALL PANEL.

WALL PANEL FOOTING DETAIL

- Adhesive anchors shall conform to Section 502.2.12 of the Standard Specifications.

WALL PANEL JOINT DETAIL

- Adhesive anchors shall conform to Section 502.2.12 of the Standard Specifications.

WALL PANEL DETAIL

- Adhesive anchors shall conform to Section 502.2.12 of the Standard Specifications.

PRECAST PANELS 6 FEET OR LESS IN HEIGHT DO NOT PROVIDE BILL OF BARS. BAR STEEL REINFORCMENT PER WALL MANUFACTURER.

PRESTRESSING STRANDS NOT SHOWN FOR CLARITY.

DESIGNER NOTE:

- Use in-out jointly with panel manufacturer alone.

LEGEND

- Use in-out jointly with panel manufacturer alone.

BASE ANGLE DETAIL

- Adhesive anchors shall conform to Section 502.2.12 of the Standard Specifications.

SECTION A-A

- ELEVATION PRESTRESSED CONCRETE WALL PANEL.