CROSS SECTION THRU ABUTMENT at MSE wall

NOTE:

- MSE WALL AT ABUTMENT

DESIGNER NOTES

Due to maintenance concerns, MSE walls shall not be used for the singular purpose of reducing superstructure lateral loads. If the grade line cannot be raised, then MSE walls may be used to maintain the superstructure centerline. In such circumstances, the use of MSE walls at abutments may be justified.

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 Section 30.26 for applicable notes. Note: Std. 30.26 is still under development.

"SLOPE PAVING CONCRETE" ITEMS TO BE SHOWN AS PART OF BRIDGE PLAN.

MSF WALL AT ABUTMENT

STANDARD 14.04

PARTIAL ELEVATION OF F.F. ABUTMENT SHOWING EYE BOLT FALL PROTECTION OPTION

REARING WALL NOT SHOWN

PREFERRED SIZE: M25, M30, M32

MIN. RAMPS: 1:12

MAX. RAMPS: 1:24

CLEARANCE Cube: 4'-6"

EYE BOLT DETAILS

- Electroplated ferrule loop insert
- Stainless steel or electroplated steel
- Rivet shank to match
- Ferrule loop insert

FACE OF CONCRETE

STAINLESS STEEL OR ELECTROPLATED STEEL

EYE BOLT DETAIL

COST INCIDENTAL TO THE CONSTRUCTION OF THE BRIDGE MASONRY STRUCTURE.

CAST-IN-PLACE COPING

- Wire backfill or see 2
- Steel reinforcing
- Use dowels to be paid as "slope paving concrete".

FLANGE BEAM

- Eye bolts, 6" min.
- Rebar, 6" min.
- Use expansion joint filler

EXPANSION ANCHORAGE TO BE DETERMINED BY THE MSE WALL DESIGNER. SEE APP. A6 FOR CONCRETE MASONRY BRIDGES.

- Design of the wall in front of the abutment shall include the accidental lateral loads and 240 psf live load surcharge acting on the back of the abutment below the beam seats.

- Expansion anchors to be backfilled to a minimum of the beam seat elevation prior to placing concrete.

- Expansion anchors shall be used for semi-expansion or fixed type A1 abutments.

- The values are unfactored superstructure lateral loads transferred to the abutment and taken to be 10 psi per foot of abutment length. The values are based on the preference of the bridge maintenance and region project staff.

- The following assumptions are taken to be kips per foot of abutment length.

- For semi-expansion or fixed type A1 abutments:

- The design of the abutment anchorage shall be based on the preference of the bridge maintenance and region project staff.