

# Bridge Memorandum

**Job No.:** JXXXXXX  
**County:** XXXXX

**Bridge No.:** A1112  
**Route:** AAA (minor) over BBB (major)

**Final Layout:** 115' Mechanically Stabilized Earth Retaining Wall

**Location:** In front of End Bent 1 of Bridge A1111 (Route AAA)

**Alignment:** Tangent, 84.50' left of  $\text{\textcircled{C}}$  median Route BBB from Sta. 512+20.00 to Sta. 513+75.00

**Skew:** 0° 0' 27" right advanced to Route AAA (wall parallel to Route BBB).

**Loading:** Soil properties for both retained and foundation materials as determined by Project Operations.

**Profile Grade:** Route AAA: VPI Sta. 4+60.00 (Elev. 996.84), -4.72% ahead, +2.39% back, L=510.00'

Route BBB: Per contracted profile and cross section sheets in bridge survey.

Left (NBL) maximum surveyed elevation under structure = 968.87 at  $\text{\textcircled{C}}$  Route AAA

Right (SBL) maximum surveyed elevation under structure = 968.84 at  $\text{\textcircled{C}}$  Route AAA

**Tie Station:** Sta. 0+77.50  $\text{\textcircled{R}}$  wall = Sta. 3+65.50  $\text{\textcircled{C}}$  Route AAA

**Beginning Station:** Sta. 0+00.0  $\text{\textcircled{R}}$  wall = 84.50' left  $\text{\textcircled{C}}$  median Route BBB at Sta. 512+20.00

**Fill Exception:** Sta. 3+57.00  $\pm$  to Sta. 5+43.00  $\pm$

**Traffic Handling:** Route AAA to be closed during construction. See roadway plans for traffic control.

## General Notes:

Structure built in conjunction with Bridge A1111.

Stationing for wall is located along baseline of wall tied to centerline median Route BBB.

Baseline for wall is located at the front face of wall at the top of leveling pad.

Stationing and profile grade for Route AAA and centerline of structure are located along centerline Route AAA.

Profile grade for Route BBB is located 30 feet left and right of centerline median Route BBB.

Stationing for Route BBB is located along centerline median Route BBB.

Bottom of leveling pad is founded on sandstone at elevation 962.00 as recommended by Geotechnical Section

Route BBB horizontal clearance during construction from edge of traveled way shall be 14'-0" minimum (clearance includes shoulders).

### **Items not Provided:**

Fencing, color stain and form liners.

### **Bridge Items Provided:**

Masonry and sacrificial graffiti protection system.

Coping compatible with MSE system used.

Select granular backfill behind wall.

### **Roadway Items Provided:**

Type B gutter behind the top of wall.

Excavation required to construct wall.

2.5:1 fill slope

3.5:1 side slope

Slope protection in front of wall adjacent to Route BBB

Bridge Contact: John Smith, Structural Project Manager, (###) ###-####

District Contact: Jane Doe, Transportation Project Manager, (###) ###-####

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Prepared by: Eddie Punch-Clock, Bridge Loc. and Layout Designer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Bridge: John Smith, Structural Project Manager

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Date

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District: Jane Doe, Transportation Project Manager

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Date

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District: Joe P. Sector, District Bridge Engineer

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Date

Estimated working days: 10 days

FY' 18 Estimated Construction Cost\*: **\$102,000**

\* Does not include STIP Inflation from Planning  
(3% inflation compounded annually).

Programmed Bridge STIP Amount: \$702,000