

# 3-SIDED BRIDGE NOTES

## GENERAL NOTES:

1. The following notes shall apply unless noted otherwise on the plans or specifications. In the case of conflict with the plans or specifications, the more restrictive requirements shall apply.

## REFERENCE SPECIFICATIONS:

1. Design Criteria: AASHTO Bridge Design Specifications
2. Manufacture: ASTM C1504

## MATERIALS:

1. Aggregate conforms to ASTM C33.
2. Portland cement conforms to ASTM C150.
3. Fly Ash conforms to ASTM C618.
4. All bar reinforcing steel conforms to ASTM A615 or A706 Grade 60.
5. Welded Wire Fabric conforms to ASTM A1064, Grade 70 or 80 KSI.
6. Admixtures conform to ASTM C494.
7. Air entraining admixtures conform to ASTM C260.
8. Concrete minimum compressive strength (at 28 days) 5000 PSI, unless greater strength is required.
9. Concrete minimum stripping strength is 2500 PSI.

## DELIVERY AND INSTALLATION:

1. The contractor provides rigging and off loading at the job site.
2. The contractor provides all weld plates, shims and accessories which are not cast directly into the concrete.
3. Follow all installation procedures described in the project documents. More restrictive requirements outlined in the project documents or a corresponding geotechnical report take precedence.
4. The foundation and backfill sections of these notes provide basic installation criteria.

## FOOTING PREPARATION:

1. All loose and disturbed soil shall be removed prior to placing precast footings.
2. Precast footings shall bear on either compacted structural fill or undisturbed native soils. Footings shall be underlain by at least 6" of screeded and compacted gravel.
3. If no project specifications apply, follow WSDOT Standard 7-02.3(6) A4.

## BRIDGE JOINTS:

1. Bridge units laid sequentially form a joint which requires grout or sealant to prevent soil infiltration. Where grout is required grout all joints with non-shrink grout.
2. The legs of the 3-sided bridge key into a footing. The footing key shall be cleaned of all debris. Shim plates are used in the keyway to collimate bridge units. The keyway shall be grouted to fix the bridge leg.
3. All bridge joints with gap greater than  $\frac{1}{8}$ " shall be filled for application of a wide non-curing extruded butyl adhesive tape. Use a non-shrink grout conforming to ASTM C1107 and butyl tape conforming to ASTM C877.

## BACKFILL:

1. Backfill shall consist of well graded soil free of organics, large stones and deleterious material.
2. Backfill shall be placed in 12 inch lifts and compacted to a minimum of 90% modified proctor density.
3. Backfill shall not exceed 2' elevation difference from side to side.