NOTES

Provide a suitable lifting device for the precast cap and column units. Cast-in-place alternative is not allowed.

Stirrups at the coupled couplers are sized based on a 2" outer diameter. Exterior cap shafts must span dimensions as required for the actual coupler sleeve diameter options.

Manufacturer to determine the precast pier column lengths assuming 2½" steel caps at the top and bottom of the column.

The new precast pier column pair per plan value as bottom of pier cap elevation minus top of footing elevation.

DESIGNER NOTES

Piers shall be supported by a minimum of 2 columns, when multiple pier caps are used each element shall be support by a minimum of 2 columns.

The following special provisions shall be used:
- Coupled bar couplers (SPV.0090.XXX)
- Precast pier columns (SPV.0090.XXX)
- Precast pier caps (SPV.0090.XXX)

The maximum weight of each precast element shall be 90 kip.

Coupled coupler sleeves may be oversized to allow for additional lateral tolerance in the field. Standard practice is to oversize coupled coupler sleeves by 1 bar size. Adjust shear stirrups as necessary to account for larger diameter coupler sleeves.

Verify several manufacturers' coupler sleeve dimensions prior to design. Assume the minimum diameter of coupled sleeve for column reinforcement design. See standards 7.01 and 7.02 for additional pier notes and details.

Details as shown on this standard are intended for required precast piers. Designed to meet project specific requirements. See 7.1.4.1.2 in the bridge manual and standards 7.04 and 7.05 for additional guidance.

Material Properties:
- fy = 60,000 P.S.I. Bar reinforcement, Grade 60
- f'c = 3,500 P.S.I. Concrete masonry

Approved: Bill Oliva