**TYPICAL INSTALLATION OF JUNCTION BOX JB25**

**CONDUITS & FITTINGS FOR UNDERBRIDGE LIGHTING**

CONDUITS MUST BE STAGGERED AND AS WIDELY SPACED AS PRACTICAL.

1. **DIMENSIONS**
   - All dimensions are in millimeters unless otherwise noted.

2. **MATERIALS**
   - Provide materials and workmanship in accordance with PUB. 408.

3. **GROUNDING**
   - For proper grounding of galvanized steel conduit or non-metallic conduit, see Pub. 408 Section 910.

4. **INSULATION**
   - Insulating bushing is not required for junction box JB25 where barrier width is 350 (1'-2") or more.

5. **ELEVATION**
   - Elevation and plan views.

6. **SECTION A - A**
   - Section 1101 of PUB. 408

7. **NOTES**
   - Either all metric or all English values must be used on plans. Metric and English values shown may not be mixed.

8. **COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION**
   - poking or design office

9. **STANDARD ELECTRICAL DETAILS**
   - Refer to design drawings for location of outlets for luminaires.
CONDUIT EXPANSION NOTES

1. APPROXIMATE LENGTH OF FLEXIBLE CONDUIT IS 2 TIMES ANTICIPATED MOVEMENT OR 200 1/8" WIRE PLUS 50 1/8" WIRE.

2. SIZE BOX PER NEC.

3. FOR UNDERBRIDGE LOCATIONS, BOXES CAN BE USED IF INACCESSIBLE FROM GENERAL PUBLIC AND PLACED A MIN. 300 (1'-0") ABOVE SURROUNDING GROUND.

4. FULL BOX USE IS OPTIONAL. IF NEEDED, USE CAST IRON OR HELD STEEL WHICH IS BUT STIPED GROUNDING AND PULL BOX, SECTION 910.3.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF DESIGN
STANDARD ELECTRICAL DETAILS
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BC-721M