

NOTES:

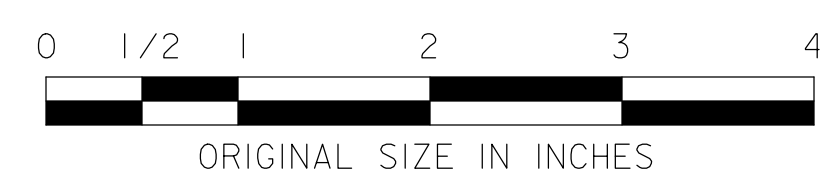
- CONTRACTOR SHALL EXTEND THE CONDUIT INTO THE TYPE D JUNCTION BOX A MINIMUM OF 12". WHEN CONCRETE IS POURED AND ALLOWED TO PROPERLY CURE, CONDUIT SHALL BE CUT TO SIZE ALLOWING 3-4" OF CONDUIT TO BE EXPOSED IN THE JUNCTION BOX.
- CONTRACTOR SHALL ALLOW CONCRETE TO CURE IN ACCORDANCE WITH SPECIFICATION SECTION 401 OR AS DIRECTED BY THE ENGINEER PRIOR TO CUTTING CONDUIT TO SIZE IN JUNCTION BOX.
- EXPOSED PVC RIGID NON-METALLIC CONDUIT EXPANDS AND CONTRACTS AT AN APPROXIMATE RATE OF .41" PER 100' PER 10° F CHANGE IN TEMPERATURE. CONTRACTOR SHALL FACTOR IN THIS RATE DURING INSTALLATION OF CONDUIT IN PARAPET/BARRIER. SEE TABLE THIS DRAWING AND NEC TABLE 352.44 FOR MORE INFORMATION ON THERMAL EXPANSION OF PVC CONDUIT. CONTRACTOR SHALL PERFORM CALCULATIONS TO CONFIRM RATE OF EXPANSION/CONTRACTION FOR EXPOSED/NON-EXPOSED CONDUIT INSTALLATIONS AS APPLICABLE FOR INSTALLATION.
- ALL STAINLESS STEEL CONDUIT SHALL BE MINIMUM 304SS.
- ALL HARDWARE SHALL BE STAINLESS STEEL TYPE 316 AND SIZED TO FIT THE SIZE OF CONDUIT IDENTIFIED IN THE CONTRACT DRAWINGS. NUTS AND HARDWARE SHALL BE HAND TIGHTENED. ANY MATERIALS DAMAGED DURING INSTALLATION BY THE CONTRACTOR SHALL BE REPLACED AT NO ADDITIONAL COST TO THE AUTHORITY. SS U-BOLTS AND PLATES MAY BE SUBSTITUTED WITH REBAR TIE WIRE, PROVIDED THE SS CONDUIT IS PERFECTLY CENTERED IN THE BELL FITTING.
- REDUCER FITTINGS SHALL BE A MINIMUM OF 1" LARGER THAN THE SIZE OF CONDUIT INSTALLED IN THE BARRIER/PARAPET BUT NOT GREATER THAN 2" DIFFERENCE IN DIAMETER OF THE CONDUIT. ORIENTATION AND LAYOUT OF CONDUIT AND REDUCER FITTINGS SHALL BE COORDINATED WITH THE REINFORCEMENT AND DETAILS OF THE BARRIER/PARAPET.

- CONTRACTOR MAY USE WIRE TIES TO SECURE CONDUIT TO REBAR TO ALIGN CONDUIT PRIOR TO POURING CONCRETE. THE CONTRACTOR SHALL ENSURE CONDUIT IS FULLY CENTERED WITHIN THE REDUCER FITTING PRIOR TO CONCRETE POUR, AND SHALL SECURE CONDUIT SUCH THAT IT REMAINS CENTERED AFTER CONCRETE POUR. IT IS RECOMMENDED TO USE MULTIPLE TIES NEAR CONDUIT ENDS, FITTINGS, AND COUPLINGS.
- THE LENGTH OF REDUCER FITTING SHALL BE COORDINATED WITH THE CONTRACT DRAWINGS DECK JOINTS DESIGNED MOVEMENT RATES. THE REDUCER FITTING SHALL BE EXTENDED TO THE CORRECT LENGTH USING A BUTT FUSION SPLICE. THE LENGTH OF STAINLESS STEEL CONDUIT INTO PVC REDUCER BELL FITTINGS SHALL TAKE INTO ACCOUNT EXPANSION/CONTRACTION PROPERTIES OF STAINLESS STEEL AND PVC.
- CONTRACTOR SHALL FIELD SELECT THE REBAR TO SECURE THE PVC OR S.S. CONDUIT NEAREST THE EXPANSION JOINT BASED ON THE LENGTH OF THE REDUCER FITTING.
- THE CONTRACTOR SHALL JOIN PVC CONDUIT AND PVC FUSION REDUCER BY THERMAL FUSION OR AS SPECIFIED BY THE PVC CONDUIT MANUFACTURER.
- INSTALLATION SHOWN IS FOR CAST-IN-PLACE OR SLIP-FORM BARRIER/PARAPET INSTALLATIONS. PRE-CAST BARRIER SECTIONS SHALL BE MANUFACTURED SUCH THAT ANY BARRIER SECTION IS COMPATIBLE WITH ANY OTHER BARRIER SECTION.

LENGTH OF PVC RUN	ANTICIPATED EXPANSION/CONTRACTION (FOR 100° F TEMP CHANGE)
0' - 100'	±4.06"
100' - 250'	±10.25"

PVC EXPANSION/CONTRACTION REFERENCE TABLE

(SEE NOTE 3)
SCALE: 1 1/2" = 1'-0"



NEW JERSEY TURNPIKE AUTHORITY
**NEW JERSEY TURNPIKE
GARDEN STATE PARKWAY**
STANDARD DRAWINGS

BRIDGE/WALL INSTALLATION DETAILS

OFFICE OF THE CHIEF ENGINEER
NEW JERSEY TURNPIKE AUTHORITY
WOODBRIIDGE, NEW JERSEY

STANDARD DRAWING
E-23

REV.	DESCRIPTION	DATE
0	REISSUED DRAWING	09/21