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- f. Conduit running parallel or perpendicular to trays or wireways of different channels should maintain a minimum separation of one (1) inch between the conduits, conduit fittings, or conduit bodies.
29. The following tolerances apply to all locating dimensions for embedded or exposed conduit, trays, tray separators and equipment shown on electrical drawings.
- | | Dimension |
|-------------------------------|---------------------------------------|
| Cable tray | + 2" Except in containment structures |
| Embedded conduit | + 1 dia. where tolerance shall be +6" |
| Exposed conduit (dimensioned) | + 2" |
| Equipment (plan) | + 2" |
| Equipment (elevation) | + 2" |
| Conduit stand-offs | |
| 2" and less | + 3 x conduit diameter |
| 2-1/2" and greater | + 2 x conduit diameter |
| Duct banks | + 6" |
| Cable tray separators | + 1/8" retrofit required |
- Field engineering is to ensure that the accumulation of tolerances does not violate the criteria as described on E-42(Q), Sh 10, Note 10.
30. GRS CONDUIT REPAIR PROCEDURE
- Enlarge concrete hole to allow access to damaged conduit. Remove hole in conduit and deburr inside edge of hole. Clean outside surface of GRS conduit to ensure proper adherence of patch.
 - Cut GRS coupling, designed for diameter of damaged conduit, large enough to cover damaged area as a patch.
 - Weld or epoxy patch to conduit so no concrete can enter conduit.
 - Adherence to the above procedures will allow the cables to be pulled through the conduit without damage.
31. Only unistrut, power-strut or malleable one hole strap with back clamp shall be used to support permanent conduits unless otherwise noted.
32. 1/2" flexible conduit may be substituted for 3/4" when the opening into MFCR equipment is only 1/2", the length is no more than 2 feet and cable fill criteria will not be exceeded.
33. Any conduits embedded in the turbine building slabs or attached to turbine building steel, which cross the boundary of the turbine pedestal and/or are attached to the turbine pedestal shall have a section of flexible conduit or equivalent between the last support on the pedestal and the first support on the turbine building steel or floor slab to prevent transmission of vibration or shearing of conduits.

4-74	REV. Dwg. No.	REV.	JAT	REV.	REV.	REV.	REV.
1-24	Incorporated PCR E-2199	REV.	REV.	REV.	REV.	REV.	REV.
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SCALE	DESIGNED	DRAWN	JOB No. 7220	DRAWING No.	REV.		
ORIGIN	HIGHLAND PLANT UNITS 1 AND 2	CONDUIT AND TRAY	NOTES, SYMBOLS AND DETAILS	E42	Sh 11C		

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APERTURE
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