NOTES TO DESIGNER:
1. This strand extension detail is to be used for continuous spans at moment resisting diaphragm only. This detail is not applicable to continuous spans using hinge diaphragms.
2. Designer shall calculate the exact number of extended strands needed to develop the required moment capacity at the end of the girder. This calculation shall be based on the tensile strength of the strands, the stresses imposed on the anchor, and concrete bearing against the projected area of the anchor.

3. The total number of extended strands shall not be less than:

Nps = 12(Mc + Vc X h - Mf) X Nc X K

where:
Mps, Vc = The lesser of Elastic or Plastic hinging moment & shear capacity of column, Ft-kips, kips respectively.
h = distance from top of column to c.g. of superstructure, Ft
Nc = number of columns
K = 0.67 for L1 = L2, 0.5 for L1 = 2L2

NOTES:
Dimensions shall be shown in Imperial units to the nearest 1/64 inch.

STRAND DEBONDING DETAIL

STRAND PATTERN

STRAND EXTENSION DETAIL

FOR END TYPE D

NOT ALL EXTENDED STRANDS ARE SHOWN