BEAM NOTES
1. All bar dimensions are out-to-out.
2. Place one (1) Bar 4K or 5K or 6K at each location as detailed alternating the direction of the ends for each bar (see "ELEVATION AT END OF BEAM" Index Nos. 20120, 20130, 20140, 20150, 20160, 20172 and 20179).
3. Bars 4K shall be bent prior to the beam leaving the prestressing yard. Bars 4K shall be bent parallel to the ends of the beam.
4. Caulk should be used with Bars 4K in the ends of exterior beams to assure the bent portion of the bar is properly oriented so that the bar will be embedded in the diamond concrete.
5. Strands N shall be either AS4416 or Grade 250 or Grade 270, seven-wire strands 3/16" or larger, stressed to 17,000 lbs. each.
6. Unless otherwise noted, the minimum concrete cover for reinforcing steel shall be 2".
7. All options for the Contractor, welded deformed wire reinforcement may be used in lieu of Bars 3D, 4K, 5K, 6K and 7K except as noted below, provided the wire sizes and spacing match those shown on the Standard Beam Details sheet for these bars. In this event, Bars 4K or 5K and 6K may be fabricated with the omission of the lower transverse-long bar provided that two longitudinal bars are placed (twisted) at the lower end of the bar. The lower (lower) wire shall be located 1" from the end of Bars 4K or 5K and 6K and the second wire 2" minimum from the first wire, but no less than 1½" of the beam depth from mid-depth of the beam. In addition, Bars 6K may consist of bars of bars with the cross sectional area of the pair equal to or greater than the conventional single bar. Welded wire reinforcement shall conform to AS4416.
8. Install Safety Sleeves 1/2"-long from ends of beam and spaced on an 8'-0" (Max.) centers. See Bars 4K or 5K locally to allow placement. Safety Sleeves shall:

   - 1/2" long x 1 1/2 Sch. 40 PVC Pipe with Cap for Type III, IV, V, VI, VII, VIII & IX Beams.
   - 1/2" long x 1 1/2 Sch. 40 PVC Pipe with Cap for Type II Beams.

   Sleeves shall be free of debris and water prior to casting deck.
9. For beams with skewed end conditions, the end reinforcement, defined as Bars 3D, 3D, 4K, 5K, 6K, 7K, 8K, 9K and 10K placed within the limits of the spacing for Bars 3D (approximately 1.5 times the overall beam depth) in ELEVATION AT END OF BEAM shall be placed parallel to the skewed end of the beam. Bars 4K or 5K and 6K located beyond the limits of Bars 3D shall be placed perpendicular to the longitudinal axis of the beam. Placement of Bars 3D, 3D, 4K and 4K and 4K correspond to END I and END 2 respectively, as shown in the beam ELEVATION. For Bars 3D and 3D, the overall length shall be adjusted to fit the width of the beam at the end of the beam as measured perpendicularly to the skew. For Bars 4K and 4K and 4K as used to maintain minimum clearance (1/8") between the bars at the transition to Bars 4K and 4K and cut to length to maintain minimum clearances.