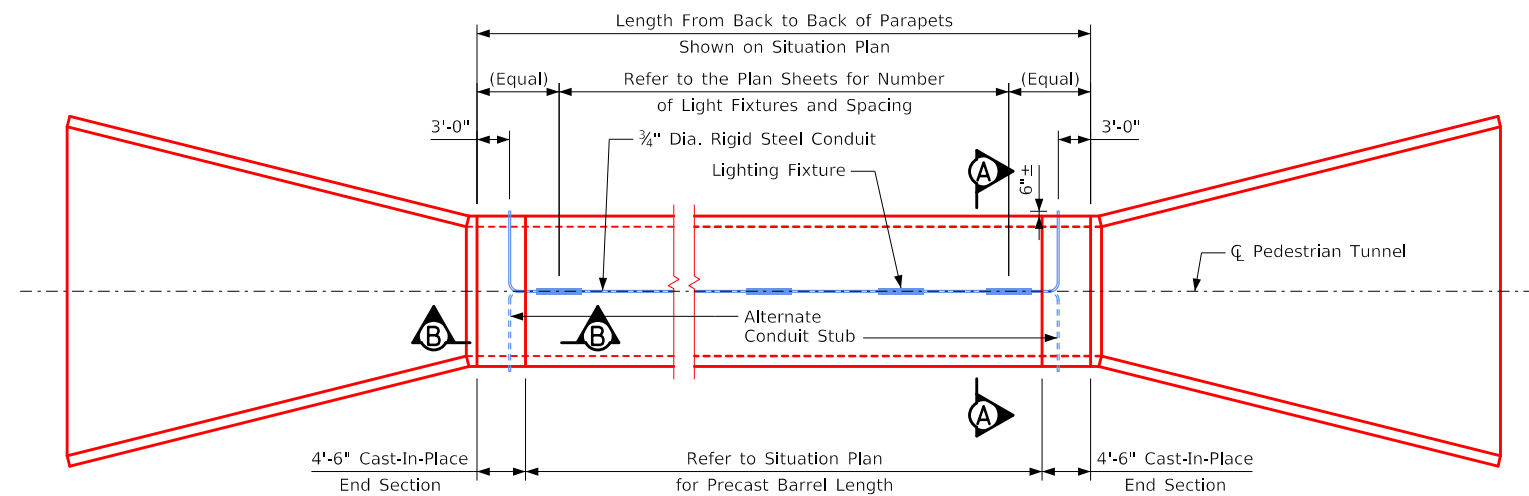




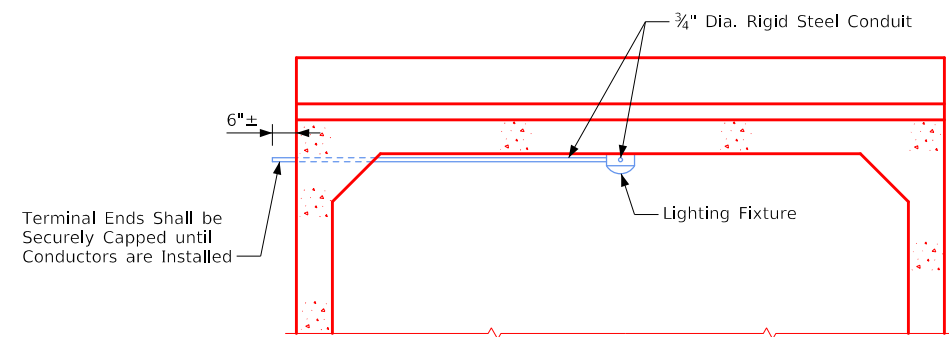
ENGLISH\_LRFD\_SIGNED\_PRECAST\_PEDESTRIAN\_TUNNEL\_STANDARDS.DGN - 7010P - THIS SHEET ISSUED 08-2020

**General Lighting Notes:**

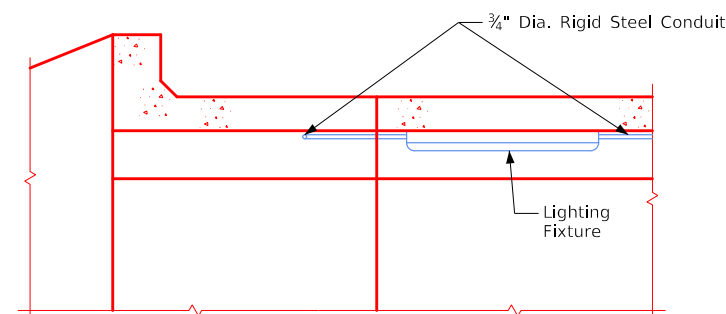
1. Construction shall conform to Section 2523 of the Standard Specifications as applicable to the project.
2. See design plans for project specific details (electrical service routing, handhole locations, control cabinet details, lighting fixture specification, conductor requirements, etc.).
3. Secure conduit and lighting fixtures to concrete with post-installed anchors. Type and size to be approved by the Engineer.



Tunnel Plan



Section A-A

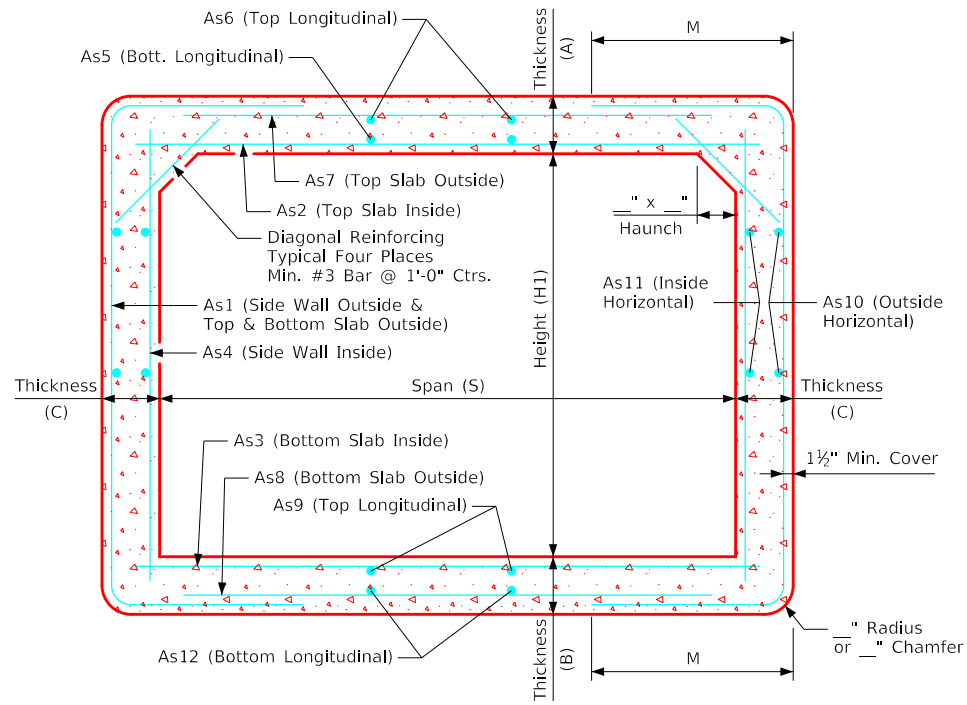


Section B-B

**Lighting Details**

IOWA DEPARTMENT OF TRANSPORTATION  
 DESIGN SHEET NO. \_\_\_\_ OF \_\_\_\_ FILE NO. \_\_\_\_ DESIGN NO. \_\_\_\_

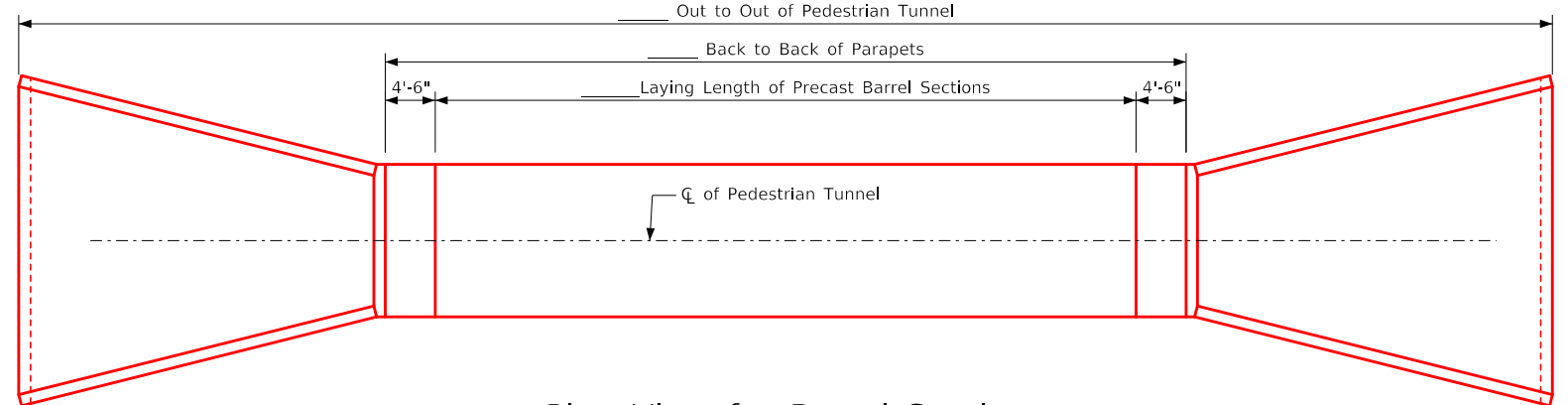
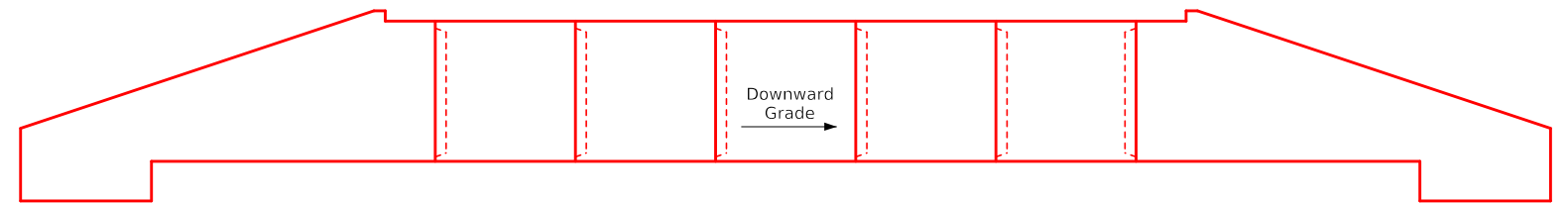
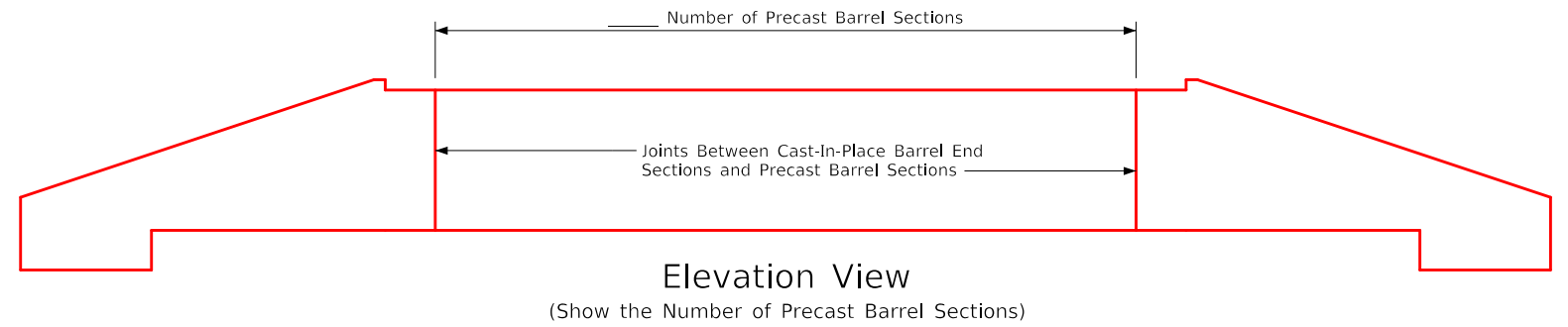
ENGLISH\_LRFD\_SIGNED\_PRECAST\_PEDESTRIAN\_TUNNEL\_STANDARDS.DGN - THIS SHEET ISSUED 08-2020



Barrel Section

### Loading, Design Methods and Materials

Any precast box culvert designs submitted, that vary from the IDOT Standards, shall be designed and sealed by a professional Engineer currently registered in the state of Iowa. Nonstandard designs shall be based on the design criteria used for the IDOT Standards. Minimum laying length shall be 4'-0". Minimum concrete strength, f'c, shall be 5 KSI.



___ FT. x ___ FT. x ___ FT. Pedestrian Tunnel																													
Barrel Section																													
Design Earth Cover (FT)	f'c (KSI)	A (IN.)	B (IN.)	C (IN.)	M (IN.)	Circumferential Reinforcement																							
						As1		As2		As3		As4		As5		As6		As7		As8		As9		As10		As11		As12	
						Layer 1	Layer 2	Layer 1	Layer 2	Layer 1	Layer 2	Layer 1	Layer 2	Layer 1	Layer 2	Layer 1	Layer 2	Layer 1	Layer 2	Layer 1	Layer 2	Layer 1	Layer 2	Layer 1	Layer 2	Layer 1	Layer 2	Layer 1	Layer 2
						Bar Size																							
						Spacing (IN.)																							
						Area (IN. <sup>2</sup> /FT)																							