NOTES:
1. LOADING: AASHTO HS20.
2. CONCRETE: Chamfer exposed edges 3/8" unless otherwise shown. Give all concrete surfaces a Class 1 finish.
3. STRUCTURAL STEEL: Provide rails conforming to the requirements for ASCE 40 crane rail. Provide structural steel for alternate sections conforming to AASHTO M 500, Grade B, Copper Steel or ASTM A 616, Grade 2. If the steel does not contain a minimum of 0.2 percent copper, galvanize the alternate sections. All other structural steel conforms to AASHTO M 436 and is painted.
4. Provide 2" minimum concrete cover to the face of any bar unless otherwise shown. All bars are #4.
5. All welds are continuous 3/4" fillet shop welds. Weld rail or alternate sections on both sides to the W 8 x 18 beams at each intersection. Weld according to Section 555.
6. Use aluminum alloy 6061-T6 or 5056-T6 for aluminum tubing.
7. Provide timber conforming to AASHTO M 111. Treat timber according to Section 210.
8. Galvanize all hardware according to AASHTO M 111.
9. Construct the cattle guard to conform with the finished roadway grade and template.
10. Place one object marker at each corner of the cattle guard as shown. Mount object markers on 4" x 4" x 6"-0' posts with the reflector located 42" above the elevation of the lateral support concrete.
11. Install drain pipe as shown where required. Include drain pipe with cattle guard unless otherwise shown.
12. Unless otherwise shown in the Special Contract Requirements, shop apply paint system 2 according to Section 555 and color the top coat according to Federal Standard 595B, Gray, 5633L. Repair any damage to the paint system during installation.
13. Install channels and wood blocking on cattle guards wider than 16 feet to maintain grade spacing as shown on Detail ET 619-2.
14. See Detail ET 619-3 for optional precast foundation details.