The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any form is given regarding the use of this standard to other formats or incorrect results or damages resulting from its use.

**General Notes:**

1. Provide lightning protection using air terminals or structures utilizing the rating system method. Provide lightning protection system consisting of air terminals, down conductor, and grounding system installed in accordance with AASHTO Standard for Highway Bridges, Section 1111.12.3.3.3. Air terminal system is to be designed and tested in accordance with IEEE 142. Meet the following requirements:
   - Position - in center of least utilized field of view
   - Height - camera equipment to be within 45 degree of line of center
   - Material: #2/0 AWG Copper Conductor Bonded to Continuous #2/0 AWG Copper Conductor
   - Structure wind rating in accordance with TxDOT WV & IZ (LTS2013).

2. Alternative orientation for air terminal and pole mounted cabinet due to project specific needs to be indicated on the plans and detailed in shop drawing submittal for approval.

3. Altitude air terminal bracket to ITS pole in accordance with Item 488 "Structural Field Welding." Bracket may be welded by the fabricator in the shop prior to delivery. A detailed shop drawing is required for all brackets. All brackets are to be inspected in accordance with inspection requirements.

4. Maintain a minimum 8' radius. Refer to ITS Pole (See ITS(19)).

5. Use ETP alloy 110 copper air terminal (Class II) and tested in accordance with IEEE 142. Provide lightning protection system consisting of air terminals, down conductor, and grounding system installed in accordance with AASHTO Standard for Highway Bridges, Section 1111.12.3.3.3. Air terminal system is to be designed and tested in accordance with IEEE 142. Meet the following requirements:
   - Position - in center of least utilized field of view
   - Height - camera equipment to be within 45 degree of line of center
   - Material: #2/0 AWG Copper Conductor Bonded to Continuous #2/0 AWG Copper Conductor
   - Structure wind rating in accordance with TxDOT WV & IZ (LTS2013).

**Direction of Traffic Operations Standard**

**ITS POLE AIR TERMINAL DETAILS**

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