GENERAL NOTES:

1. Install conduit in accordance with Specification 630.

2. Grade should be maintained lower than curb level to accommodate wheelchairs and mobility devices.

3. Trench not to be open more than 250' at a time when construction area is subject to vehicular or pedestrian traffic.

4. Sawcut asphalt at the edges of the trench to leave neat lines.

5. Pull boxes (See Index 635-001) should be placed at appropriate intervals according to the plan and elevation drawings.

6. Conduit installation details should be observed for proper installation and safety.
**CONDUIT INSTALLATION DETAILS**

**PLACEMENT WITHIN THE UTILITY STRIP**

- **Conduit(s)**
- **Backfill**
- **Undisturbed Material**
- **Finished Grade**
- **Sidewalk**

**VERTICAL CLEARANCE NOTE:**
Maintain 1'-0" minimum vertical clearance when crossing over pipe and or utilities. If minimum vertical clearance cannot be maintained, conduit is to be routed under pipe maintaining 1'-0" minimum vertical clearance.

**PLACEMENT UNDER SIDEWALK**

- **Conduit(s)**
- **Backfill**
- **Undisturbed Material**
- **Finished Grade**
- **Sidewalk**

**PLACEMENT BEHIND GUARDRAIL**

- **Drainage Pipe and/or Utilities Beneath roadway**
- **Undisturbed Material**
- **Conduit(s)**
- **Backfill**
- **Finished Grade**

**PLACEMENT IN FRONT OF GUARDRAIL**

- **Drainage Pipe and/or Utilities Beneath roadway**
- **Undisturbed Material**
- **Conduit(s)**
- **Backfill**
- **Finished Grade**
NOTES:
1. Pavement Removal: The removal and replacement of the additional pavement width (i.e., 6" Width either side of trench) will not be required when the trench can be constructed without disturbing the asphalt surface on either side.

2. Placement Under Existing Pavement: Place conduit prior to installation of base and pavement, unless otherwise shown in the Plans or approved by the Engineer.
**DESCRIPTION:**

**PLACEMENT ACROSS EXISTING DRAINAGE PIPES OR UTILITIES**

1. Where conduits are to be installed over existing underground structures (e.g., drainage pipes or utility lines) which are less than 2'-6" deep, encase the conduit in Class NS concrete for the entire length of conduit that is installed at a depth of less than 2'-6".

2. Place 3" Warning Tape when new conduit is installed at a depth of 1'-6" or greater, and the new conduit is not encased in concrete.

**NOTES:**

- BELOW EXISTING
- **Conduit**
- **Railroad**
- **Sidewalk**
- **Pull Box (See Index 635-001)**
- **Size Varies**
- **Finished Grade**
- **Wire (When Required)**
- **Concrete (See Note 1)**
- **3" Warning Tape (See Note 2)**
- **Existing Utility or Drainage Structure**
- **New Conduit(s)**

- ABOVE EXISTING - DEPTH 2'-6" OR GREATER
- **Conduit**
- **Railroad R/W**
- **Sidewalk**
- **Pull Box (See Index 635-001)**
- **Size Varies**
- **Finished Grade**
- **Wire (When Required)**
- **Concrete (See Note 1)**
- **3" Warning Tape (See Note 2)**
- **Existing Utility or Drainage Structure**
- **New Conduit(s)**

- ABOVE EXISTING - DEPTH 2'-6" OR LESS
- **Conduit**
- **Railroad R/W**
- **Sidewalk**
- **Pull Box (See Index 635-001)**
- **Size Varies**
- **Finished Grade**
- **Wire (When Required)**
- **Concrete (See Note 1)**
- **3" Warning Tape (See Note 2)**
- **Existing Utility or Drainage Structure**
- **New Conduit(s)**

**SECTION A-A**

**PLACEMENT UNDER RAILROAD**

- **Conduit**
- **Railroad**
- **Pull Box (See Index 635-001)**
- **Size Varies**
- **Finished Grade**
- **Wire (When Required)**
- **Concrete (See Note 1)**
- **3" Warning Tape (See Note 2)**
- **Existing Utility or Drainage Structure**
- **New Conduit(s)**

**REVISED 11/01/18**

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