Intermediate Signals
Field Kit
Basics - Conduit Fittings & Tie Marking

**Conduit Boxes**
- Type LB
- Type C
- Type T

**Washers Locate Boxes**
- Two 2” Fender Washers means a Type T box is nearby.
- One 2” Fender Washer means a Type C or Type LB box between the tracks.
- One 1” Washer means an Expansion Joint nearby.

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**Diagram Notes**
- Optional 2x4 Connection Box
- Expansion Joint
- Foul Point
- Switch Point
- 2” Conduit pieces under Conduit
Intermediate Signals - Install Foundations, Insulators, and Conduit

- Intermediate Signals go at Block Boundaries
- One Signal Mast must be in Sun 4 hours a day
- Foundation Blocks 4’ from center line of track
- Both rails get insulators
- Conduit lies directly on plastic
- Type C box at center of track
  - Conduit rests on two 2” bits of conduit
- Signal Mast screwed into top of Foundation Block
  - 18” rigid ¾” metal conduit threaded both ends
Intermediate Signals - Pull Wire

**Cat5 Pulls**

- Signal Mast to Signal Mast - **Blue Cat5**

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**Note:** The Track Team pulls all the wire that goes through an Expansion Joint. The Signal Team pulls the rest of the wire which includes all the 18 AWG wire. If there is a Remote Solar Panel, the Track Team pulls Red and Black 18AWG From the Solar Panel to the CP Board Enclosure.
Intermediate Signals - Pre Ballast Checklist

Insulators
  ___ Track Insulators Both Rails

Signal Foundations
  ___ 2 Foundation Blocks
  ___ One Foundation in Sun 4+ hours a day
  ___ 4' from centerline of Track
  ___ 18" threaded Mast in each Foundation Block

Flex Conduit
  ___ Between Joints

Conduit
  ___ Conduit between Foundation Blocks
  ___ Conduit on top of Plastic
  ___ Type C Track Box between rails
  ___ Type C Track Box on 2" pieces of conduit

Washers
  ___ 2" Washer marks Track Box - Top of Tie at End

Wire Pull
  ___ Blue Cat5 between Signal Masts
  ___ String between Signal Masts
  ___ 2’ string & Cat5 on each end

Plywood
  ___ Plywood over Type C box

Where____________________
By _____________________
Date____________________