TYPICAL INTERCONNECT JUNCTION BOX INSTALLATION
(Interconnect Only)

FOR JUNCTION BOX INSTALLATION, SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK AT SCORE MARKS

TYP. JUNCTION BOX (BEHIND BACK OF CURB — SEE GENERAL NOTE #6)

TYP. JUNCTION BOX (BEHIND BACK OF SIDEWALK — SEE GENERAL NOTE #6)

NOTE: TRENCH WIDTH SHALL BE EQUAL TO CONDUIT DIAMETER PLUS 2 FT. (MIN.)

TYPICAL JUNCTION BOX INSTALLATION
(Roadway Sections with Curb, gutter and Sidewalk)

Notes:
1. All conduit shall be 2" RPC pipe.
2. Junction box shall be "Idaho Precast" S-457/Ada unless otherwise specified on the plan.
3. Junction box riser shall be manufactured by "Idaho Precast" specifically for junction box S-457/Ada unless otherwise specified on the plan.
4. Contractor shall cut 10 ft of Interconnect cable in the junction box, unless otherwise specified on the plan.
5. Interconnect conduit shall be on the south or west side of the road, unless otherwise specified on the plan.
6. All new and existing conduits shall be terminated with a plug manufactured by "Hooker Ford" and have a "bell end" or terminal adaptor with bushing.
7. All spare 2" conduits shall incorporate a #12 stranded copper locate wire.

General Notes:
1. Plan sheet references to an S-407 junction box shall be interpreted as an Idaho Precast Junction box type S-407/Ada or approved equivalent.
2. S-407/Ada junction boxes shall receive no more than six (6) 2" conduits.
3. Plan sheet references to an S-457 junction box shall be interpreted as an Idaho Precast Junction box type S-457/Ada or approved equivalent.
4. S-457/Ada junction boxes shall receive no more than fourteen (14) 2" conduits.
5. Junction boxes that receive fifteen (15) or more conduits shall be 32" x 32".
6. Junction boxes shall be located behind the back of curb whenever possible. If this is not possible, then they shall be located behind the back of sidewalk. Junction box locations on each roadway leg shall be consistent.
7. All spare 2" conduits shall incorporate a #12 AWG stranded copper locate wire.
General Notes:
1. Conduit bedding shall be fine soil or sand.
2. 2" minus backfill shall be compacted to 95% maximum dry density in 6" lifts.
3. Conduit bedding shall not be used within 3 ft. of junction box for "Detail B" junction box installations.
4. Top of junction box shall be flush with the surrounding grade.

Junction Box Backfill Details
(For Installations Outside of the Travel Way)
1. This detail shall be used to retrofit existing junction boxes to accommodate the bending radius for fiber optic cable.
2. "A" minus backfill shall be compacted to 50% maximum dry density in 6" lifts.
3. Top of junction box shall be flush with surrounding grade.
4. All new and existing conduits shall be terminated with a plug manufactured by "backer rod" and a "Bell End" or a terminal adaptor with bushing.

General Notes:

Notes:
- Contractor to saw out slot in junction box within sawcutting limits. To allow installation of junction box over existing conduit. After box placement, the slot shall be sealed with non-shrink grout to the full wall thickness.
- Contractor to remove existing surrounding existing conduit, remove existing conduit sweeps, retain and protect existing cable. If after removing sweeps conduit does not extend into the new junction box, then split conduit manufactured by conduit repair systems, Inc. shall be used to extend conduit inside the junction box. Conduits shall extend into the junction box for a distance of 3", unless otherwise approved by ACHD.

Typical 32" x 32" Junction Box Installation (Plan View)

Section A-A

Section B-B

Concrete sidewalk, asphalt patch or "A" minus backfill and sod repair as required.