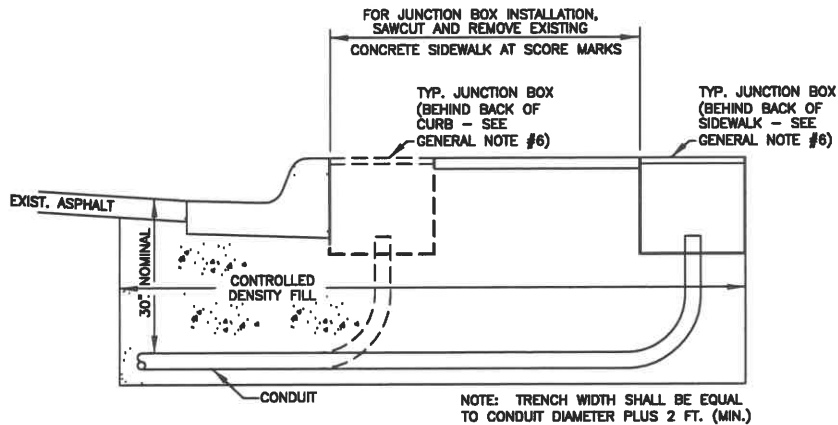


TYPICAL INTERCONNECT JUNCTION BOX INSTALLATION
(Interconnect Only)



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-45/Ada unless otherwise specified on the plan.
3. Junction box riser shall be manufactured by "Idaho Precast" specifically for junction box S-45T/Ada unless otherwise specified on the plan.
4. Contractor shall coil 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 "Backer Rod" 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-40T junction box shall be interpreted as an Idaho Precast junction box type S-40T/Ada or approved equivalent.
2. S-40T/Ada junction boxes shall receive no more than six (6) 2" conduits.
3. Plan sheet references to an S-45T junction box shall be interpreted as an Idaho Precast Junction box type S-45T/Ada or approved equivalent.
4. S-45T/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.



12/28/2016



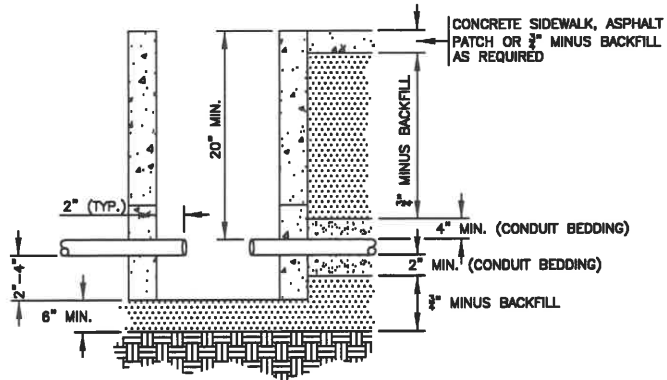
NO.	DATE	BY	DESCRIPTION
1/14	ZBB		Added notes
11/21	ZBB		Added notes



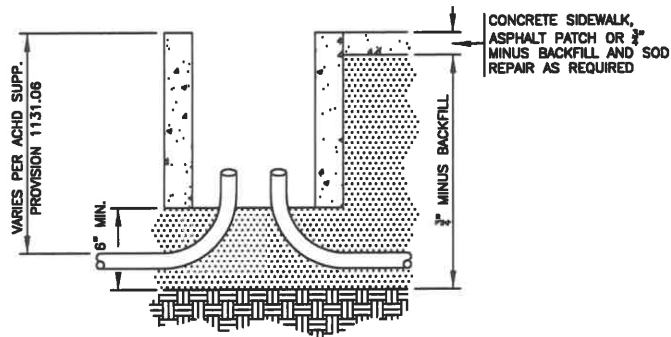
SIGNATURES		SHEET TITLE	
Drawn By: Andrew Beale	Design By: Andrew Beale	Standard Conduit and Junction Box Intersection Detail	
Checked: 11/19/11	Approved By: Jim Larson		

STANDARD DETAIL NO. TS-1105.01

S:\Projects\1105\1105.01.dwg 12/28/2016 10:00 AM

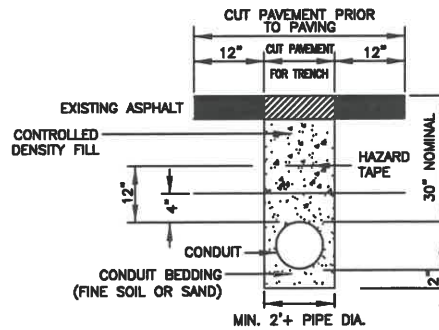


DETAIL A
(Junction Box with Filer)



DETAIL B
(Junction Box without Filer)

JUNCTION BOX BACKFILL DETAILS
(For Installations Outside of the Travel Way)



TYPICAL TRENCH AND CONDUIT INSTALLATION
(Under Existing Pavement)

General Notes:

1. Conduit bedding shall be fine soil or sand.
2. $\frac{3}{4}$ " 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.

12/28/2016

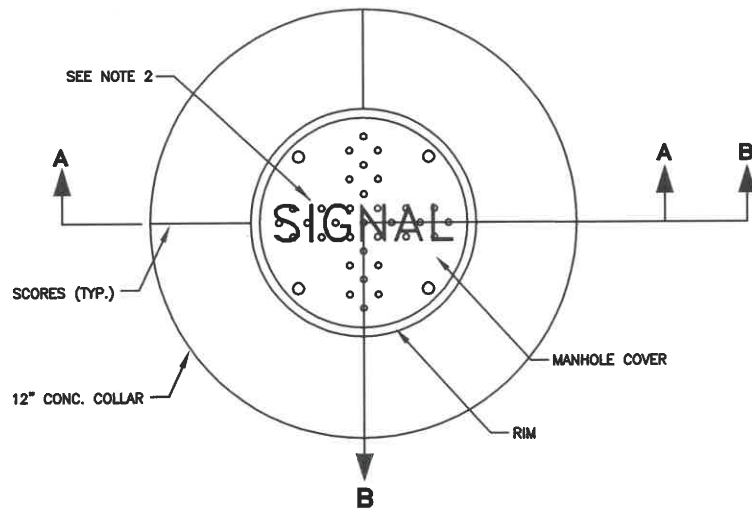


NO.	DATE	BY	DESCRIPTION
• REVISIONS •			

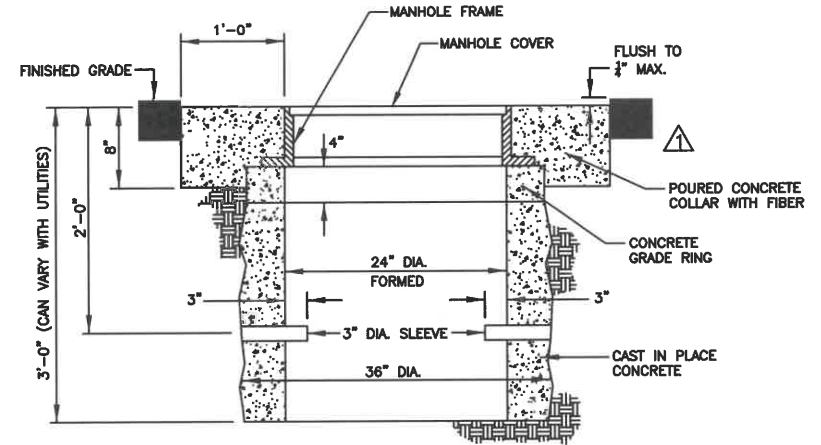


• SIGNATURES •		• SHEET TITLE •	
Drawn By: Miles Preece	Checked By: Miles Preece	Standard Conduit and Junction Box Intersection Detail	
Date: 07/05/10	Design By: Miles Preece		
File: TP-1105.02.DWG	Approved By: Jim Larson		

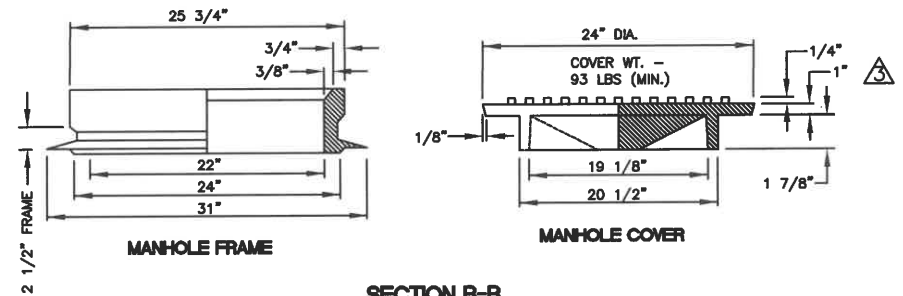
STANDARD DETAIL NO. TS-1105.02



**CAST-IN-PLACE CONCRETE MANHOLE
(PLAN VIEW)**




SECTION A-A



SECTION B-B

NOTES:

1. MANHOLE FRAMES AND COVERS SHALL HAVE A TOLERANCE OF $\frac{1}{8}$ " OR LESS. COVERS SHALL NOT BE WARPED AND ANY THAT ARE TRAVELED ON SHALL BE REPLACED. MACHINE ALL MATCHING SURFACES.
2. MANHOLE COVERS SHALL HAVE THE TEXT "SIGNAL". TEXT HEIGHT SHALL BE 2".
3. TOP OF CONCRETE COLLAR SHALL BE FLUSH WITH MANHOLE COVER AND SHALL BE A MAXIMUM $\frac{1}{8}$ " BELOW FINISHED 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. 

NO.	DATE	BY	DESCRIPTION
1	0/18	JEB	Changed cover depth to 1"
2	11/11	JEB	Modified note
3	04/10	JEB	Removed adjusting rings for MKL, deleted note

REVISIONS



Traffic Engineering Division
3775 Adams Street, Boise, ID 83714
www.achd.idaho.gov

SIGNATURES	
Scale: JEB	Drawn By: Joshua Beak
Date: 7/25/2020	Design By: Joshua Beak
File: 75-1105.00.390	Approved By: Greg Fullerton

SHEET TITLE	
Standard Conduit and Junction Box Intersection Detail	



STANDARD DETAIL NO.
TS-1105.03

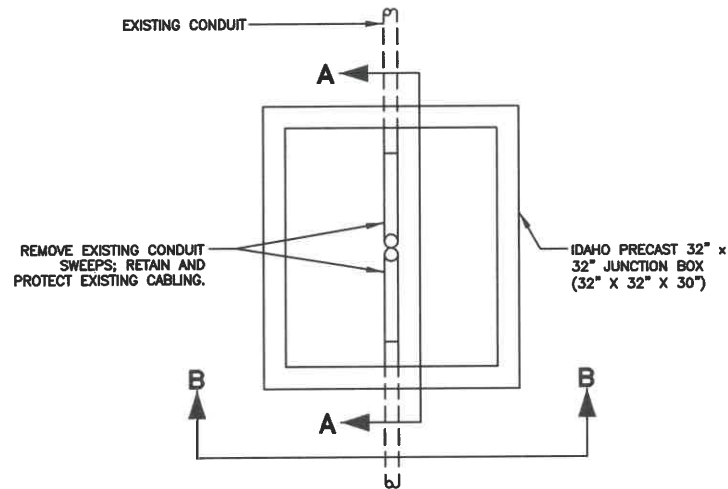
Sheet 3 of 4

1/24/2020

11/24/2020 11:05:00 AM

GENERAL NOTES:

1. THIS DETAIL SHALL BE USED TO RETROFIT EXISTING JUNCTION BOXES TO ACCOMMODATE THE BENDING RADIUS FOR FIBER OPTIC CABLE.
2. $\frac{3}{4}$ " MINUS BACKFILL SHALL BE COMPACTED TO 95% 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.



TYPICAL 32" x 32" JUNCTION BOX INSTALLATION
(Plan View)

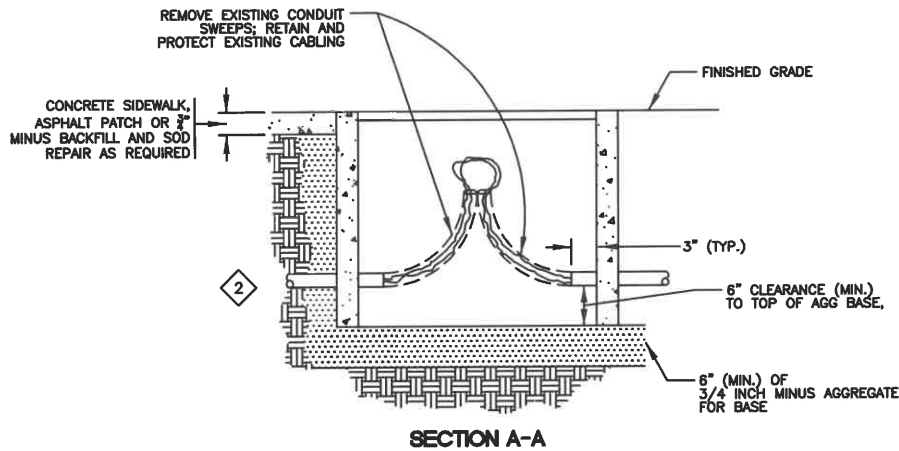
NOTES:

1

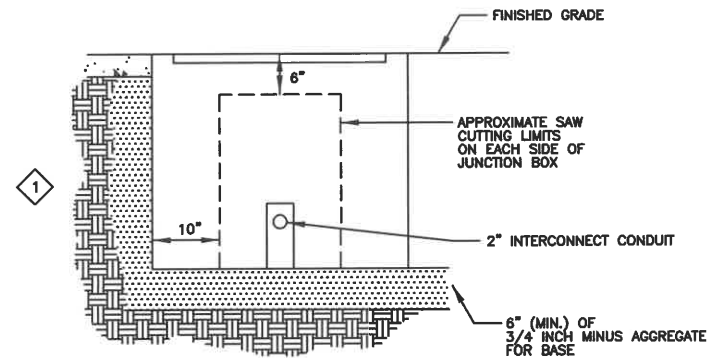
CONTRACTOR TO SAWCUT SLOT IN JUNCTION BOX, WITHIN SAWCUTTING LIMITS, TO ALLOW INSTALLATION OF JUNCTION BOX OVER EXISTING CONDUIT. AFTER BOX PLACEMENT, THE SLOT SHALL BE SEALED WITH NON-SHRINK GROUT TO THE FULL WALL THICKNESS.

2

CONTRACTOR TO REMOVE BACKFILL SURROUNDING EXISTING CONDUIT, REMOVE EXISTING CONDUIT SWEEPS AND 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.



SECTION A-A



SECTION B-B

NO.	DATE	BY	DESCRIPTION
1	11/11	JBS	Modified 32\"/>



SIGNATURES	
Scale: NYS	Drawn By: <i>Scottina Beale</i>
Date: 7/05/2020	Design By: <i>Scottina Beale</i>
File: 19-1105.04.DWG	Approved By: <i>Greg Pullerton</i>

SHEET TITLE
Standard Conduit and Junction Box Intersection Detail



STANDARD DETAIL NO. 1
TS-1105.04

1/24/2020

TS-1105.04 Standard Detail No. 1