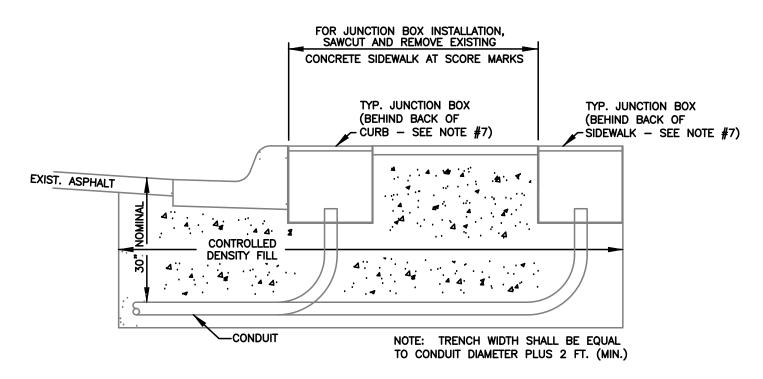


# TYPICAL INTERCONNECT JUNCTION BOX INSTALLATION (Interconnect Only)



# TYPICAL JUNCTION BOX INSTALLATION (Roadway Sections with

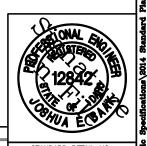
Curb, Gutter and Sidewalk)

NOTES:

- 1. ALL CONDUIT SHALL BE 2" RPC PIPE.
- 2. 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.
- 3. S-40T/ADA JUNCTION BOXES SHALL RECEIVE NO MORE THAN SIX (6) 2" CONDUITS.
- 4. 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.
- 5. S-45T/ADA JUNCTION BOXES SHALL RECEIVE NO MORE THAN FOURTEEN (14) 2" CONDUITS.
- 6. JUNCTION BOXES THAT RECEIVE FIFTEEN (15) OR MORE CONDUITS SHALL BE 32" X 32".
- ALL SPARE 2" CONDUITS SHALL INCORPORATE A #12 AWG STRANDED COPPER LOCATE WIRE.
- 8. CONTRACTOR SHALL COIL 10' OF INTERCONNECT CABLE IN THE JUNCTION BOX, UNLESS OTHERWISE SPECIFIED ON THE PLAN.
- 9. 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.
- 10. JUNCTION BOX SPACING FOR SIGNAL INTERCONNECT SHALL BE AT EVERY INTERSECTION OR A MAXIMUM OF 500', WHICHEVER IS LESS.
- 11. WHEN FUTURE STREET LIGHTING CONDUIT IS INSTALLED,
  JUNCTION BOXES SHALL BE PLACED AT EVERY INTERSECTION
  OR A MAXIMUM OF 1000' APART, WHICHEVER IS LESS.

### **ACCESSIBILITY NOTES:**

- 1. JUNCTION BOXES SHALL BE LOCATED BEHIND THE BACK OF CURB WHENEVER POSSIBLE. IF NOT POSSIBLE, THEY SHALL BE LOCATED BEHIND THE BACK OF SIDEWALK. JUNCTION BOX LOCATIONS ON EACH ROADWAY LEG SHALL BE CONSISTENT.
- 2. IF JUNCTION BOXES ARE REQUIRED TO BE LOCATED IN THE PEDESTRIAN TRAVEL PATH DUE TO EXISTING CONSTRAINTS, THE BOX LIDS SHALL BE FIRM, STABLE, AND SLIP RESISTANT.
- 3. JUNCTION BOX LIDS SHALL BE FLUSH WITH SURROUNDING GRADE. LEVEL CHANGES BETWEEN SURFACES SHALL NOT EXCEED \$\frac{1}{2}"\$ OR \$\frac{1}{2}"\$ WITH A 1:2 BEVEL.
- 4. JUNCTION BOX LIDS SHALL NOT EXCEED 1"
  DIFFERENCE BETWEEN ADJACENT SURFACES, IF PLACED
  IN A PEDESTRIAN TRAVEL PATH.



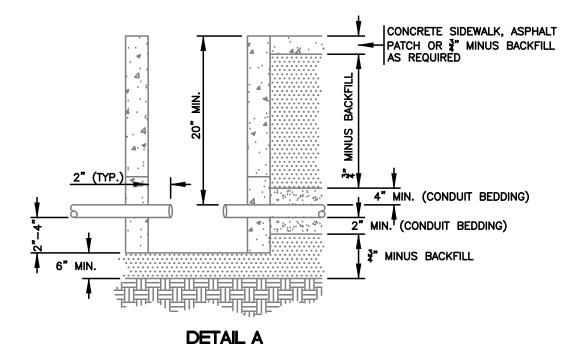
• SHEET TITLE •
Standard Conduit and Junction Box

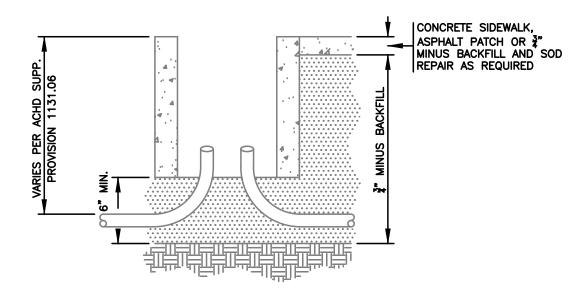
Intersection Detail

• STANDARD DETAIL NO. • TS-1105.01

Ada County Highway District 3775 Adams Street Boise, ID 83714

Sheet 1 of 4

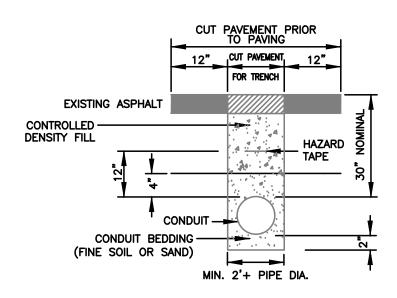






(Junction Box with Riser)

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



TYPICAL TRENCH AND CONDUIT INSTALLATION (Under Existing Pavement)

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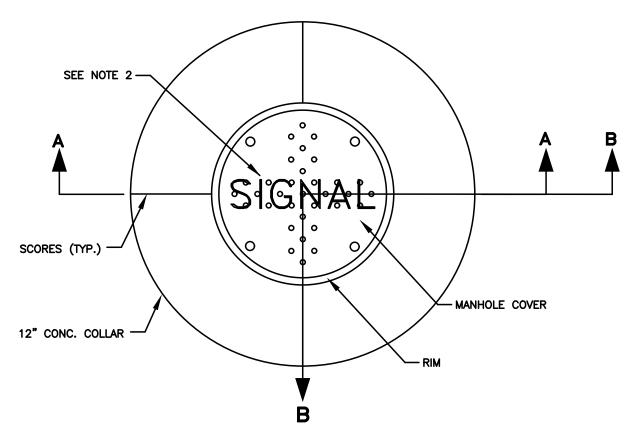
	• SIGNATURES •	· SHEET TITLE ·
Scale: NTS	Drawn By: Joshua Saak	Standard Conduit and Junction Box Intersection Detail
Date: 07/03/2000	Design By: Joshua Saak	
File: TS-1105 02 DWG	Annoused By: Gree Pullerton	

NOTES:

- 1. CONDUIT BEDDING SHALL BE FINE SOIL OR SAND.
- MINUS BACKFILL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY IN 6" LIFTS.
- 3. CONDUIT BEDDING SHALL NOT BE USED WITHIN 3' OF JUNCTION BOX FOR "DETAIL B" JUNCTION BOX INSTALLATIONS.
- 4. TOP OF JUNCTION BOX SHALL BE FLUSH WITH THE SURROUNDING GRADE.

• STANDARD DETAIL NO.

TS-1105.02



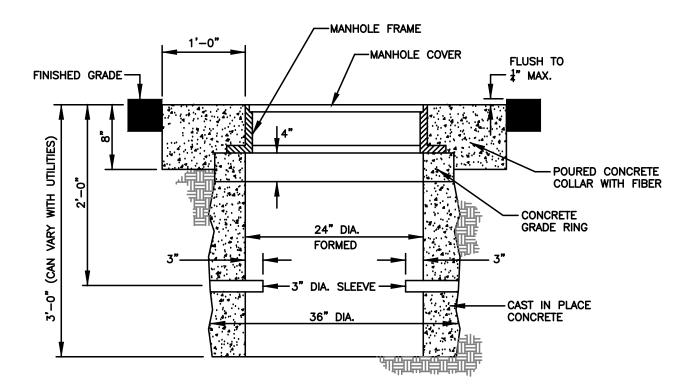
# CAST-IN-PLACE CONCRETE MANHOLE (PLAN VIEW)

### NOTES:

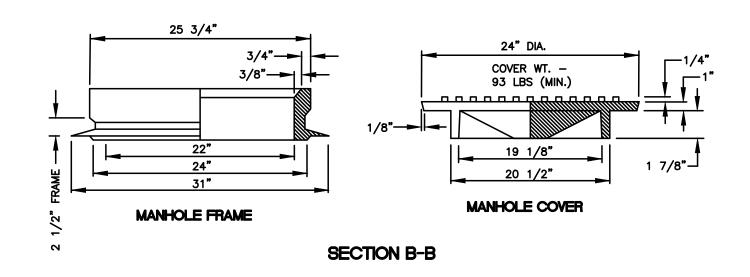
- 1. MANHOLE FRAMES AND COVERS SHALL HAVE A TOLERANCE OF ♣ OR LESS. COVERS SHALL NOT BE WARPED AND ANY THAT ARE TRAVELED ON SHALL BE REPLACED. MACHINE ALL MATCHING SURFACES.
- 2. MANHOLE COVERS SHALL HAVE THE TEXT "SIGNAL". TEXT HEIGHT SHALL BE 2".
- 3. TOP OF CONCRETE COLLAR SHALL BE FLUSH WITH MANHOLE COVER AND SHALL BE A MAXIMUM & 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.

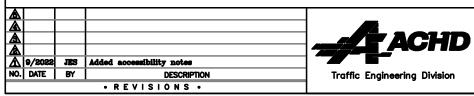
### **ACCESSIBILITY NOTES:**

- 1. JUNCTION BOXES SHALL BE LOCATED BEHIND THE BACK OF CURB WHENEVER POSSIBLE. IF NOT POSSIBLE, THEY SHALL BE LOCATED BEHIND THE BACK OF SIDEWALK. JUNCTION BOX LOCATIONS ON EACH ROADWAY LEG SHALL BE CONSISTENT.
- IF JUNCTION BOXES ARE REQUIRED TO BE LOCATED IN THE PEDESTRIAN TRAVEL PATH DUE TO EXISTING CONSTRAINTS, THE BOX LIDS SHALL BE FIRM, STABLE, AND SLIP RESISTANT.
- 3. JUNCTION BOX LIDS SHALL BE FLUSH WITH SURROUNDING GRADE. LEVEL CHANGES BETWEEN SURFACES SHALL NOT EXCEED 1 OR 1 WITH A 1:2 BEVEL.
- 4. JUNCTION BOX LIDS SHALL NOT EXCEED 1" DIFFERENCE BETWEEN ADJACENT SURFACES, IF PLACED IN A PEDESTRIAN TRAVEL PATH.



SECTION A-A





	• SIGNATURES •	· SHEET TITLE ·
Scale: NTS	Drawn By: Joshua Saak	Standard Conduit and Junction Box Intersection Detail
Date: 7/03/2000	Design By: Joshua Saak	
File: TS-1105.03.DWG	Approved By: Greg Fullerton	

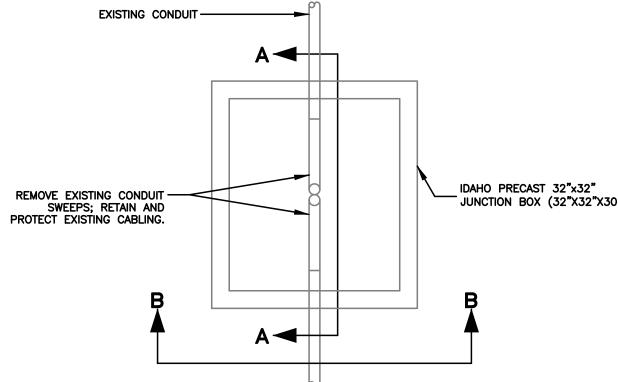
• STANDARD DETAIL NO.

TS-1105.03

### **GENERAL NOTES:**

- THIS DETAIL SHALL BE USED TO RETROFIT EXISTING JUNCTION BOXES TO ACCOMMODATE THE BENDING RADIUS FOR FIBER OPTIC CABLE.
- I'MINUS BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN 6" LIFTS.
- TOP OF JUNCTION BOX SHALL BE FLUSH WITH SURROUNDING GRADE.
- 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.

REMOVE EXISTING CONDUIT SWEEPS; RETAIN AND PROTECT EXISTING CABLING



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

6" CLEARANCE (MIN.) TO TOP OF AGG. BASE

(MIN.) OF ¾" MINÙS AGGREGATE

FOR BASE

# JUNCTION BOX (32"X32"X30")

## FINISHED GRADE 6" APPROX. SAW CUTTING LIMITS ON EACH SIDE OF JUNCTION BOX 2" INTERCONNECT CONDUIT 10" 6" (MIN.) OF ₹" MINÙS AGGREGATE FOR BASE

**NOTES:** 

CONTRACTOR TO SAWCUT SLOT IN JUNCTION BOX,

PLACEMENT, THE SLOT SHALL BE SEALED WITH NON-SHRINK GROUT TO THE FULL WALL THICKNESS.

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

JUNCTION BOX. CONDUITS SHALL EXTEND INTO THE

JUNCTION BOXES SHALL BE LOCATED BEHIND THE BACK OF CURB WHENEVER POSSIBLE. IF NOT POSSIBLE, THEY SHALL BE LOCATED BEHIND THE BACK OF SIDEWALK. JUNCTION

THE NEW JUNCTION BOX, THEN SPLIT CONDUIT MANUFACTURED BY CONDUIT REPAIR SYSTEMS, INC.

SHALL BE USED TO EXTEND CONDUIT INSIDE THE

JUNCTION BOX FOR A DISTANCE OF 3", UNLESS

BOX LOCATIONS ON EACH ROADWAY LEG SHALL BE

2. IF JUNCTION BOXES ARE REQUIRED TO BE LOCATED IN THE PEDESTRIAN TRAVEL PATH DUE TO EXISTING CONSTRAINTS, THE BOX LIDS SHALL BE FIRM, STABLE, AND SLIP

3. JUNCTION BOX LIDS SHALL BE FLUSH WITH SURROUNDING GRADE. LEVEL CHANGES BETWEEN SURFACES SHALL NOT

JUNCTION BOX LIDS SHALL NOT EXCEED 1 DIFFERENCE BETWEEN ADJACENT SURFACES, IF PLACED IN A PEDESTRIAN

EXCEED 1 OR 1 WITH A 1:2 BEVEL.

OTHERWISE APPROVED BY ACHD.

**ACCESSIBILITY NOTES:** 

CONSISTENT.

RESISTANT.

TRAVEL PATH.

WITHIN SAWCUTTING LIMITS, TO ALLOW INSTALLATION OF

JUNCTION BOX OVER EXISTING CONDUIT. AFTER BOX

# FINISHED GRADE CONCRETE SIDEWALK. ASPHALT PATCH OR ₹" MINUS BACKFILL AND SOD REPAIR, AS REQUIRED 3" (TYP.)

SECTION A-A

SECTION B-B

<u>A</u> 9/2022 JES Added accessibility notes NO. DATE BY DESCRIPTION Traffic Engineering Division • REVISIONS •

	• SIGNATURES •	• SHEET TITLE •
Scale: NTS	Drawn By: Joshua Saak	Standard Conduit and Junction Box
Date: 7/03/2000	Design By: Joshua Saak	
File: TS-1105.04.DWG	Approved By: Greg Fullerton	Intersection Detail

• STANDARD DETAIL NO.

TS-1105.04