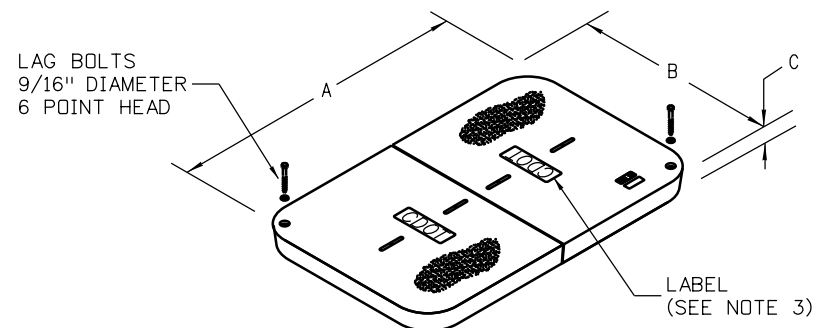


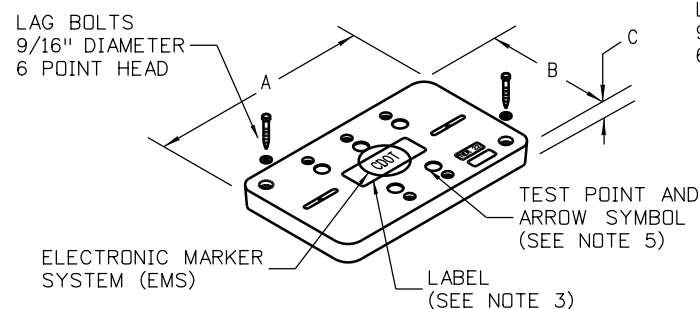
**TYPE A ONE-PIECE LID**

TYPICAL APPLICATION FOR TYPE 1, 2, AND 3 PULL BOXES



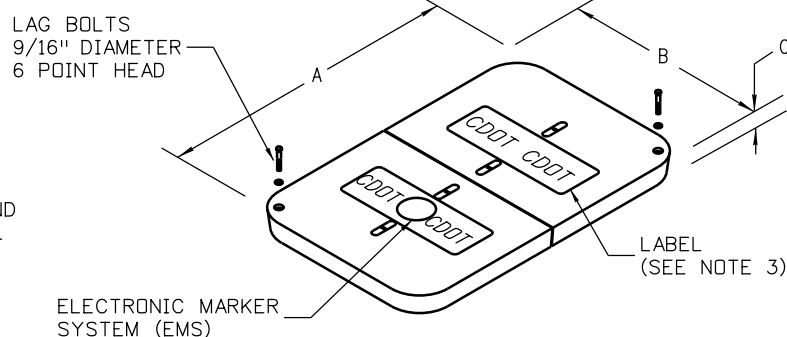
**TYPE A SPLIT LID**

TYPICAL APPLICATION FOR TYPE 4 AND 5 PULL BOXES



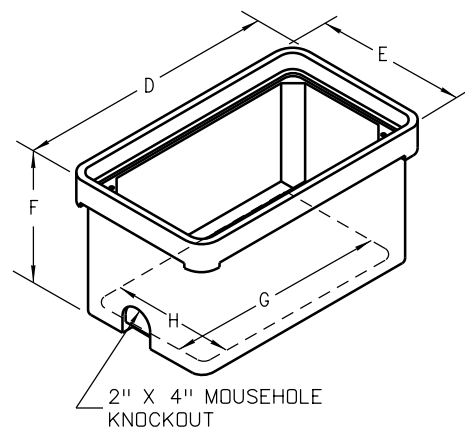
**TYPE B ONE-PIECE LID**

TYPICAL APPLICATION FOR TYPE 1, 2, AND 3 PULL BOXES

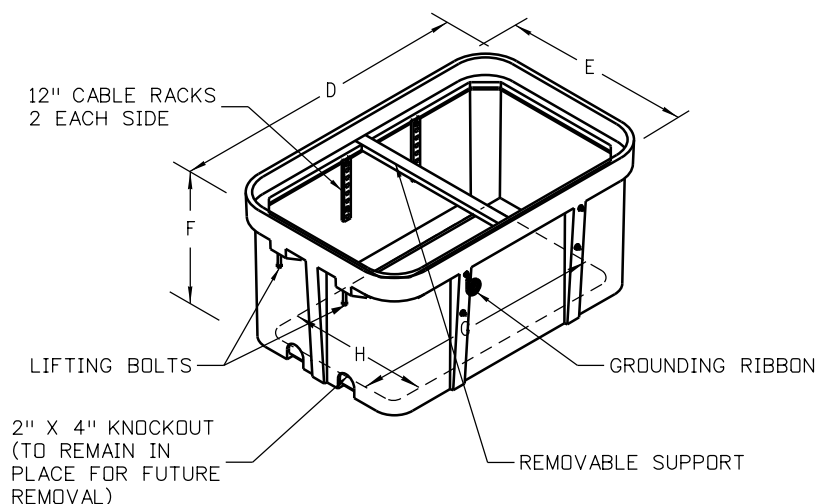


**TYPE B SPLIT LID**

TYPICAL APPLICATION FOR TYPE 4 AND 5 PULL BOXES



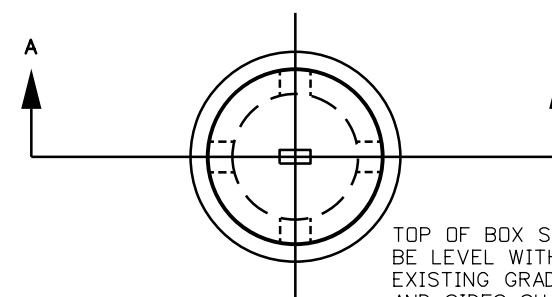
**TYPE 1, 2, AND 3 PULL BOX STANDARD**



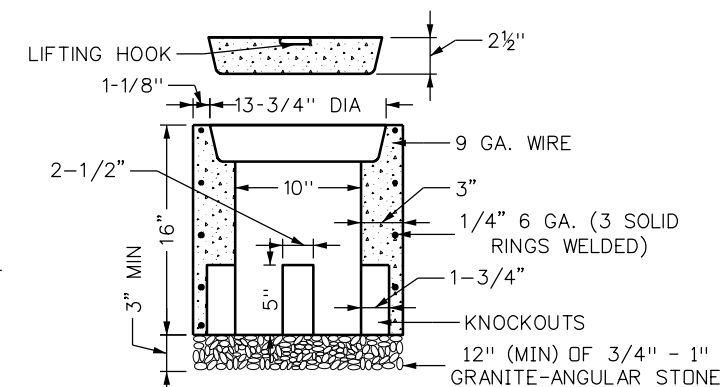
**TYPE 4 AND 5 PULL BOX STANDARD**

**GENERAL NOTES**

- ALL PULL BOX TYPES SHALL BE PAID FOR UNDER THE CORRESPONDING PULL BOX ITEM, AND SHALL BE SIZED AS TABULATED AND SHOWN IN THE PLANS.
- WORK TO INSTALL PULL BOX SHALL INCLUDE, BUT NOT BE LIMITED TO, SAW CUTTING OF CONCRETE SIDEWALKS, REMOVAL OF PAVEMENT, CONCRETE, EARTHWORK, ALL LANDSCAPE RESTORATION AND SHALL BE PAID FOR AS PART OF THE PULL BOX.
- LABELS SHALL READ IN ACCORDANCE TO SECTION 613 OF THE CURRENT CDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
- TYPE B LID NOTES
  - REQUIRED FOR ALL PULL BOXES CONTAINING ONLY FIBER.
  - SHALL CONTAIN A COMMUNICATIONS ELECTRONIC MARKER SYSTEM (EMS) EMBEDDED IN TO THE COVER.
  - SHALL BE FURNISHED WITH 3/8 (35) X 1/16 (2), DEEP TEST POINT AREAS, WITH 2 - 3/8-7 LAG LONG STAINLESS STEEL HEX HEAD BOLTS, 2 - 3/8 (10) STAINLESS STEEL FLAT WASHERS, DIRECTIONAL LABELS AND 1 - GROUND LABEL. THE MINIMUM NUMBER OF TEST POINT AREAS AND DIRECTIONAL LABELS SHALL EQUAL THE NUMBER OF CONDUIT BANKS ENTERING THE PULL BOX, UP TO A MAXIMUM OF 5 TEST POINTS. TYPE B SPLIT LIDS SHALL HAVE TEST POINTS ON ONE SPLIT LID SECTION ONLY.
  - SHALL CONTAIN A 1 1/2" DIAMETER ORANGE CIRCLE TEST POINT LABEL WITH A BLACK ARROW GRAPHIC. ONE ARROW GRAPHIC SHALL BE INSTALLED FOR EACH TEST POINT USED INDICATING THE DIRECTION THE CONDUIT EXITS THE PULL BOX.
- PULL ROPE SHALL BE TIED OFF TO THE GROUND ROD, CONDUITS, OR EACH OTHER. DO NOT CLUTTER GROUND ROD.



TOP OF BOX SHALL BE LEVEL WITH EXISTING GRADE AND SIDES SHALL BE VERTICAL.



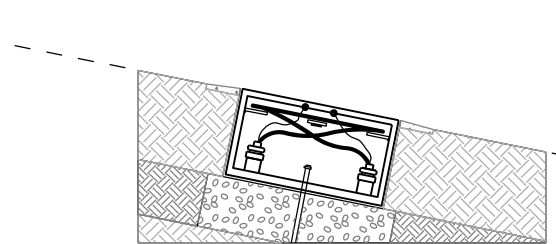
**SECTION A-A**

**TYPE 6 PULL BOX STANDARD**

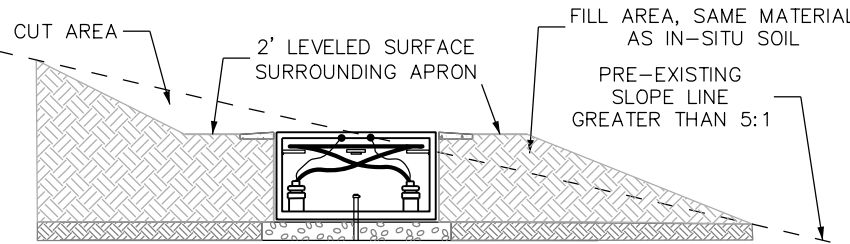
(NOT TO SCALE)

TABLE OF DIMENSIONS FOR TYPE 1 THRU 5 PULLBOXES (MINIMUMS)									
TYPE	DESCRIPTION	DIMENSIONS (IN.)							
		A	B	C	D	E	F	G	H
1	PULL BOX - (11" X 18" X 18")	18 1/8	11 1/4	1 3/4	20 1/4	13 3/8	18	15 3/4	8 7/8
2	PULL BOX - (13" X 24" X 18")	23 1/4	13 3/4	2	25	15 1/2	18	19 1/4	9 3/4
3	PULL BOX - (17" X 30" X 18")	30 1/2	17 1/2	2	32 1/4	19 1/4	18	26 1/2	13 1/2
4	PULL BOX - (24" X 36" X 24")	35 5/8	24	3	37 5/8	26	24	30 3/8	18 1/2
5	PULL BOX - (30" X 48" X 24")	47 5/8	30	3	49 5/8	32 3/8	24	45 5/8	28 3/8

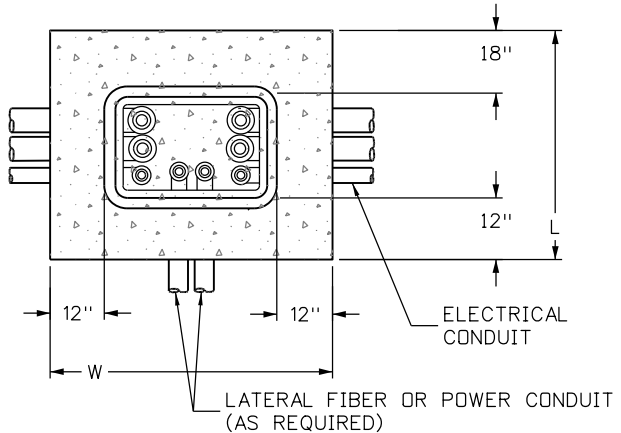
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Date:	Comments														
<b>PULL BOX DETAIL</b> Issued By: Traffic & Safety Engineering Branch July 31, 2019				<b>EB</b>											



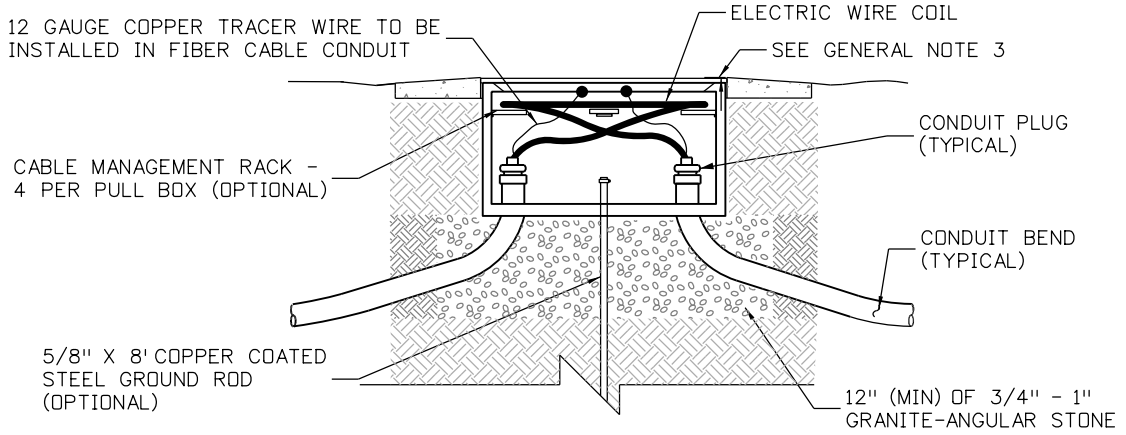
**TYPICAL INSTALLATION ON SLOPES 5:1 OR LESS**



**TYPICAL INSTALLATION ON SLOPES GREATER THAN 5:1**



**TOP VIEW**

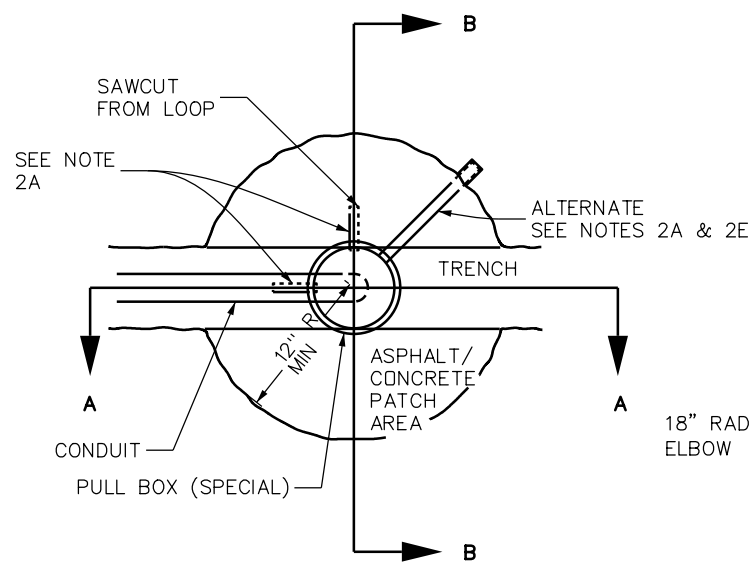


**CROSS SECTION**

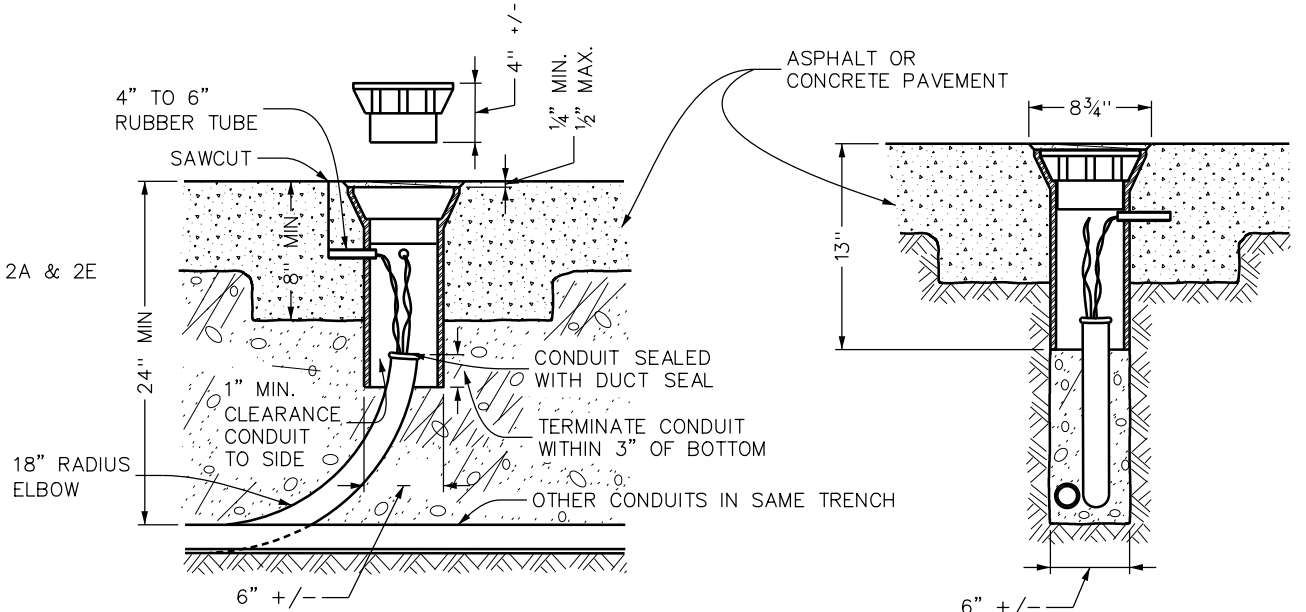
**TYPE 1 THRU 5 PULL BOX DETAIL (NOT TO SCALE)**

**NOTES**

1. TYPE 1 THRU 5 PULL BOX DETAIL NOTES:
  - A. PULL BOXES SHALL HAVE A 12-INCH WIDE MINIMUM BY 6-INCH DEEP PRE-CAST POLYMER CONCRETE APRON, EXCEPT WHEN INSTALLED AT A SIDEWALK, SLOPED AWAY FROM THE PULL BOX OPENING. THE GAP BETWEEN THE APRON AND OUTER WALL SHALL BE A MAXIMUM OF 1/4 INCH. THE COST OF THE CONCRETE APRON SHALL BE PAID FOR AS PART OF THE PULL BOX ITEM.
  - B. THE PULL BOX LID SHALL BE FLUSH WITH THE SURFACE.
2. TYPE 6 PULL BOX DETAIL NOTES:
  - A. PULL BOX SHALL HAVE 3/4-INCH TO 1-INCH DIAMETER HOLES DRILLED OR TORCHED 3 INCH FROM TOP TO ACCEPT A 4-INCH TO 6-INCH LONG RUBBER TUBE (3/4-INCH GARDEN HOSE). THE NUMBER OF HOLES SHALL BE AS PER PLANS OR AS DIRECTED BY THE ENGINEER.
  - B. CARE SHALL BE TAKEN DURING BACKFILL TO PREVENT COLLAPSE OF TUBES.
  - C. A MINIMUM 2 FEET OF SLACK IS TO BE PROVIDED ON BOTH FEED AND LOOP WIRES SO THAT ALL TESTING AND SPLICING CAN BE DONE OUTSIDE THE PULL BOX.
  - D. SHALL BE INSTALLED IN AN AREA OF THE ROADWAY NOT HEAVILY TRAVELED, IF POSSIBLE, AND A MINIMUM OF 12 INCHES FROM THE CONCRETE GUTTER PAN.
  - E. IF HOT ASPHALT IS NOT AVAILABLE, A CONCRETE RING (12 INCH MINIMUM RADIUS AND 8 INCH MINIMUM DEPTH) MAY BE ALLOWED BY THE ENGINEER. IF CONCRETE IS ALLOWED, THE RUBBER TUBE MUST BE EXTENDED BEYOND THE CONCRETE TO THE ASPHALT JOINT.
3. ELECTRIC CABLE LABEL DETAIL NOTES:
  - A. COMMUNICATION AND ELECTRIC CABLE LABELS SHALL BE PROVIDED IN ALL INTELLIGENT TRANSPORTATION SYSTEMS (ITS) PULL BOXES.
  - B. WHEN PROVIDED, CABLE LABELS SHALL BE WEATHERPROOF TAGS AND SHALL BE INCLUDED IN THE COST OF THE ELECTRICAL CONDUIT ITEM.
4. CONDUITS NOTES:
  - A. CONDUITS DEPICTED IN THIS STANDARD DETAIL ARE REPRESENTATIVE ONLY. THE NUMBER OF CONDUITS AND CONDUIT SIZE SHALL BE AS TABULATED AND SHOWN ON THE PLANS.
  - B. CONDUIT CENTERLINE SHALL BE ALIGNED TO THE TOP EDGE OF THE PULL BOX TO FACILITATE CABLE PULLING.
  - C. RADIUS MUST NOT BE LESS THAN 48 INCH FOR CONDUIT CONTAINING FIBER.
  - D. ALL CONDUITS SHALL TERMINATE IN THE PULL BOX WITH FLARED ENDS OR APPROPRIATE BUSHING PER NEC.
  - E. ALL CONDUIT SPACING IN PULL BOX SHALL BE PER NEC.



**TOP VIEW**

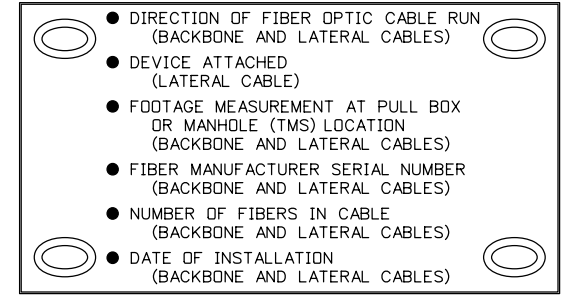


**SECTION A-A**

**SECTION B-B**

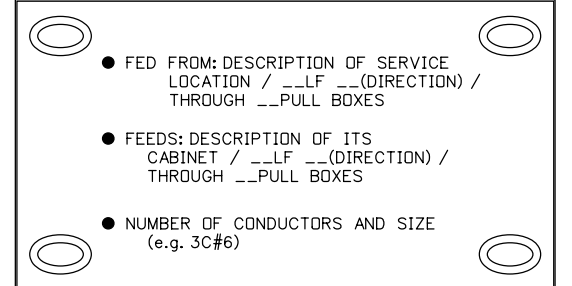
**TYPE 6 PULL BOX DETAIL (NOT TO SCALE)**

MOVED TYPE 6 PULL BOX STANDARD TO SHEET 1



**COMMUNICATIONS CABLE LABEL DETAIL**

TO BE ATTACHED BY PLASTIC TIE TO EACH COMMUNICATIONS CABLE LOCATED IN PULL BOXES AND MANHOLES (TMS)



**ELECTRIC CABLE LABEL DETAIL**

TO BE ATTACHED BY PLASTIC TIE TO EACH ELECTRIC CABLE LOCATED IN PULL BOXES

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Date:	Comments

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Traffic Safety & Engineering EB

**PULL BOX DETAIL**

Issued By: Traffic & Safety Engineering Branch July 31, 2019

**STANDARD PLAN NO.**

S-613-3

**Standard Sheet No. 2 of 2**

Project Sheet Number: