3 - #5 DIAGONAL, BOTH SIDES (TIE BELOW), 1.5” CLR.

34” DIA OPENING

10"  58"

14"

PULL BOX TOP SECTION DETAIL

#4 BARS VERTICAL (TYP. OF 8)
#57 COMPACTED AGGREGATE

CLIP WITH ANCHOR (TYP. OF 4, AS NEEDED)

USE CLIP WHEN FRAME QUADRANT AREA IS IN DIRT.

14" x 18" H KNOCKOUT
18" UP F.O.B. (TYP. OF 4)

LIFTERS (TYP.)

4" HEAVY DUTY FRAME WITH SOLID LID WITH WORD "TRAFFIC" IN LID & PICK HOLE (MEETS ASTM A48 CLASS 35B SPECS)

0.5" x 5.5" (NOM.) SSLT WEDGE ANCHOR, WASHER AND NUT WITH CLIP. FIELD DRILL ANCHOR HOLE IN CONCRETE PULL BOX.

MASTIC

LIFTERS (TYP.)

1 SHEET 3 x 8
W3 x W2 STEEL MESH

REMOVE WIRE MESH IN KNOCKOUT AREA
#5 @ 9” O.C., E.W.

6.5"  24"

6"

MASTIC

48” DIA
58” OD
70” DIA.

SECTION X-X
PULL BOX WITH FRAME AND LID
TYPE 1

THE CLIP SHALL BE MADE FROM A36 METAL, HD GALV (ASTM A123) AND IN THE SHAPE SHOWN.

0.7”
0.25”
0.6”
1.5”
1.25”
2.6”
3.8”
1” TO
1.25”

CLIP PROFILE (NOM. VALUES)

TYPE 1

PULL BOX
48”
PULL BOX TOP SECTION DETAIL

3 - #5 DIAGONAL, BOTH SIDES (TIE BELOW), 1.5" CLR.
34" DIA OPENING

10"

14"

CLIP WITH ANCHOR
(TYP. OF 4, AS NEEDED)

USE CLIP WHEN FRAME QUADRANT AREA IS IN DIRT.

14"W x 36"H KNOCKOUT
(TYP. OF 4)

LIFTERS (TYP.)

#4 BARS VERTICAL
(TYP. OF 8)

#57 COMPACTED AGGREGATE

4" HEAVY DUTY FRAME WITH SOLID LID WITH WORD "TRAFFIC" IN LID & PICK HOLE (MEETS ASTM A48 CLASS 35B SPECS)

0.5"x5.5" (NOM.) SSSL WEDGE ANCHOR, WASHER AND NUT WITH CLIP, FIELD DRILL ANCHOR HOLE IN CONCRETE PULL BOX.

1 SHEET 3 x 8
W3 x W2 STEEL MESH

Mastic

4"

1 SHEET 3 x 8
W3 x W2 STEEL MESH

REMOVAL WIRE MESH IN KNOCKOUT AREA
#5 @ 9" O.C., E.W.; POURED IN PLACE

6.5"

56" 60"

14"

10"

SECTION X-X
PULL BOX WITH FRAME AND LID
TYPE 2

*USE WHEN PLACING PULL BOX OVER EXISTING CONDUITS

THE CLIP SHALL BE MADE FROM A36 METAL, HD GALV (ASTM A123) AND IN THE SHAPE SHOWN.

0.7"

0.25"

3.8"

2.6"

1.25"

CLIP PROFILE
(NOM. VALUES)
4" HEAVY DUTY FRAME WITH SOLID LID WITH WORD "TRAFFIC" IN LID & PICK HOLE. (MEETS ASTM A48 CLASS 35B SPECS)

2 1/2"
(1) OPEN PICK HOLE
OPEN PICK HOLE
(EXTRA MATERIAL
UNDERNEATH
IS SQUARED OFF)

3 1/2"

TRAFFIC

2" RAISED LETTERS
FLUSH W/TOP
SURFACE

1"

1 1/2"

FRAME AND COVER DETAIL

35 5/8"
34 5/8"
34 1/4"

1"

32 1/2"
GROUND BOLT

1/2"

34 5/8"
38 1/2"

BONDING WIRE

1/2" STAINLESS STEEL
(UNC) GROUND BOLT
FIELD DRILL AND TAP
27/64" HOLE

NON-INSULATED ONE HOLE
TIN PLATED COPPER
COMPRESSION TERMINAL,
UL LISTED AND APPROVED
FOR #4 AWG COPPER WIRE

GROUND BOLT INSTALLATION DETAIL
NOTES:

ONE COAT OF WATER REPELLENT SEALER (SEE CITY OF COLUMBUS QUALIFIED PRODUCTS LIST) SHALL BE APPLIED TO THE INSIDE AND OUTSIDE OF THE PULL BOX.

CONCRETE SHALL HAVE AIR ENTRAINMENT OF 6% ± 2% AND SHALL HAVE 4500 PSI STRENGTH AT 28 DAYS. CONCRETE MATERIALS SHALL MEET ODOT SPECIFICATIONS.

LID RING LOAD TRANSFER IS TO BE DISTRIBUTED BY USE OF A PREFORMED MASTIC JOINT MATERIAL.

CUT OFF CONDUITS SO THEY EXTEND NO MORE THAN THREE INCHES BEYOND THE PULL BOX WALL AND PROVIDE BUSHINGS

WHENEVER POSSIBLE, CONDUITS SHOULD ENTER THE PULL BOX VIA A KNOCKOUT. WHEN APPROVED BY THE DIVISION OF DESIGN AND CONSTRUCTION PERSONNEL, CONDUITS MAY ENTER THE PULL BOX THROUGH ITS WALL ONLY IF THE OPENING IS SAWN OR CORE DRILLED. CONDUITS SHALL NOT ENTER VIA THE BOTTOM OF THE PULL BOX WITHOUT APPROVAL BY THE DIVISION OF DESIGN AND CONSTRUCTION PERSONNEL. CONDUIT SHALL ENTER KNOCKOUT AS CLOSE TO 90° AS POSSIBLE.

THE WEDGE ANCHOR ASSEMBLY SHALL BE OMITTED WHENEVER THE ENTIRE AREA ABOVE THE KNOCKOUT (1/4 OF THE CASTING) IS ENCASED IN EITHER CONCRETE OR ASPHALT. THE ENCASEMENT SHALL BE CENTERED AROUND THE KNOCKOUT.

AFTER THE CONDUITS HAVE BEEN INSTALLED, ANY OPENING IN THE PULL BOX WALL SHALL BE TOTALLY FILLED WITH MORTAR OR CONCRETE AND FINISHED FLUSH WITH THE INSIDE PULL BOX WALL (NO voids).

PULL BOX BEARING CAPACITY TO EXCEED 40,000 POUNDS.

ENLARGING THE KNOCKOUT AREA, IF REQUIRED, SHALL BE DONE BY SAW CUTTING THE CONCRETE. NO OTHER METHOD IS ALLOWED. THE CONTRACTOR SHALL REPLACE THE CONCRETE HOUSING, IF DAMAGED, AT THEIR EXPENSE.

ANY CONDUIT THAT EXITS A PULL BOX AND DIRECTLY ENTERS ANY ELECTRONIC CABINET SHALL BE SEALED USING DUCT SEAL AND STEEL WOOL AT BOTH THE CABINET AND THE PULL BOX. AT LEAST THREE LAYERS OF EACH MATERIAL SHALL BE USED AND SHALL BE INSTALLED IN AN ALTERNATING PATTERN.

THE CONTRACTOR SHALL INSTALL NON-ORGANIC FIBERGLASS PULL TAPE WITH A MINIMUM 1800 FT./LBS TENSION STRENGTH IN CONDUIT TO FACILITATE CABLE PLACEMENT.

ALL UNUSED CONDUITS SHALL BE CAPPED AND THE CAPS SECURED TO THE CONDUITS WITH TAPE.

THE WORD "TRAFFIC" SHALL BE CAST IN THE LID WITH 2" RAISED LETTERS. SEPARATE, BONDED, OR WELDED TAGS SHALL NOT BE USED.

STANDARD PLACEMENT FOR WIRE MESH AND REBAR SHALL BE USED.