· SERVICE BOX CONSTRUCTION / INSTALLATION DETAILS ·

STD. CONC. SERVICE BOX (18"x 48" x 54" BOX) 6" CAP

MANHOLE RING & SOLID COVER (CAST IRON)

WALKWAY RING & SOLID COVER (CAST IRON)

PRE-FAB SERVICE BOX (36" I.D. x 54" R.C.P.) 6" CAP

Grout is to be 3 parts sand and 1 part cement with enough water for suitable mastic.

LIGHT DUTY

· CONDUIT / DETECTOR WIRE INSTALLATION DETAILS ·

STD CURB & GUTTER

SAW CUT — APPROVED SEALER — PAVEMENT — DETECTOR WIRING — DRILL — 18" — 24" BELOW TOP OF CURB — 30" BELOW TOP OF CURB

CONTROLLER PAD DETAILS FOR TYPE 170 CONTROLLER

#9 Rebar - 2' long @ 18" O.C. Drill & grout into exist pvmt (both sides typ.)

Reinforce with 4x4x6x6 W.W.F. typ.

Exist. plus 2"

Exist longitudinal joint

Saw cut

Exist. Conc. Pvmt.

Compact top 6" to 95% std. density. Compact remainder to 90% std. density.

Blau as shown on plans.

CONCRETE PAVEMENT PERMANENT

Reinforce with 4x4x6x6 wire mesh

Exist. A.C. surface

Match exist. asph.

Exist. plus 2"

Saw cut

Exist conc. Base.

Blau as shown on plans

Compact top 6" to 95% std. density. Compact remainder to 90% std. density.

ASPHALT SURFACE ON CONCRETE BASE PERMANENT

Raised PCC pad typical unpaved area sidewalk paved area

Cabinet Front

Conduit Area (9"x16")

Anchor Bolts (4 places)

#9 Rebars

Note: Construct Contraction Joints perpendicular to conduit at approximately 30' O.C. such that they match contraction joints in existing pavement.

Anchor Bolts typ. (4ea, 3/4"x15"x2")

Anchor Bolts

Sweeping 90° Bend

Cond as required 3/16" Ground Rod

8" Layer Crushed Rock

Top of Pad to be sloped to drain

Duct seal to be applied to conduit entrances

· JUNCTION BOX DETAILS ·

PRE-FAB Junction Box (24" I.D. x 36" R.C.P.)

NOTE: Seal ring in junction box with grout.

6" Ø Blockout @ Sides

6" Minimum Crushed Rock

W2.0 x W2.0, 3" x 6" Welded Wire Fabric

Typical 6" Ø Blockout

24" I.D.

3" WALL

NOTES

1. All Service Boxes And Junction Boxes Do Have 6" Min. Crushed Rock.

SERVICE BOX ·

1. CONDUIT CONNECTION TO BE FLUSH TO WITHIN 3" OF INSIDE FACE OF SIDE WALL WITH ABILITY TO DRAIN CONDUIT INTO SERVICE BOX.
2. CONDUIT CONNECTIONS TO SERVICE BOX SHALL BE TERMINATED WITH PLASTIC CABLE BUSHING.
3. CONDUIT SHALL BE SEALED WITH APPROVED SEALER AT INSIDE WALL FACE.
4. A PRE-CAST SERVICE BOX WITH OPEN BOTTOM WILL BE ACCEPTED AS ALTERNATE · SUBJECT TO APPROVAL BY ENGINEER.

JUNCTION BOX ·

1. BOX TO BE INSTALLED FLUSH WITH GROUND LEVEL (VARIABLE WITH BOX HEIGHT.)
2. PRE-FAB (R.C.P.) JUNCTION BOX TO BE USED. OTHER DESIGNS OF SIMILAR SIZE & SHAPE MAY BE USED AS ACCEPTABLE ALTERNATIVE · SUBJECT TO APPROVAL.

TRENCHING ·

1. CONDUIT DEPTH TO BE 30" MINIMUM AS SHOWN WITH ROCK & STUBBLE FREE BACKFILL TO SERVE AS BEDDING MAT'L. MAINTAIN MINIMUM CONDUIT DEPTH IN TRENCH.
2. BACKFILL TO BE COMPACTED IN 6" LOOSE LIFTS BY HAND OR MECHANICAL TAMPING TO A 95% STANDARD DENSITY.
3. SLOPE CONDUIT TO DRAIN AS DIRECTED BY THE ENGINEER.
4. 3" RIGID GALV. STL. CONDUIT · BETWEEN SERV. BOXES
   4" " " " · BTWN. SER & JUNC. BOXES
   3/4" " " " · BTWN. JUNC & CURB FACE

REVISION DATE	COMMENTS	INIT.
MAR '88	Changed Conduit Size	VDS
AUG '91	Changed Junction Box No.	VDS
JUNE '92	Revised Conduit Depth	VDS
NOV '92	Change Junction Box	CMB
MAY '93	Added grout spec.	VDS

PROJECT DESCRIPTION

SERVICE / JUNCTION BOX / CONTROLLER PAD CONSTRUCTION / INSTALLATION DETAILS)

PROJECT NUMBER
ST-N-0047-01
STP-N 004(701)

BOOK NO.	APPROVED BY	DATE AUG 93
DRAWN BY SEAL		REVISED

CITY OF WICHITA
DEPARTMENT OF PUBLIC WORKS
TRAFFIC ENGINEERING DIVISION
WM. B. WHITNEY - TRAFFIC ENGINEER

SCALE NO SCALE