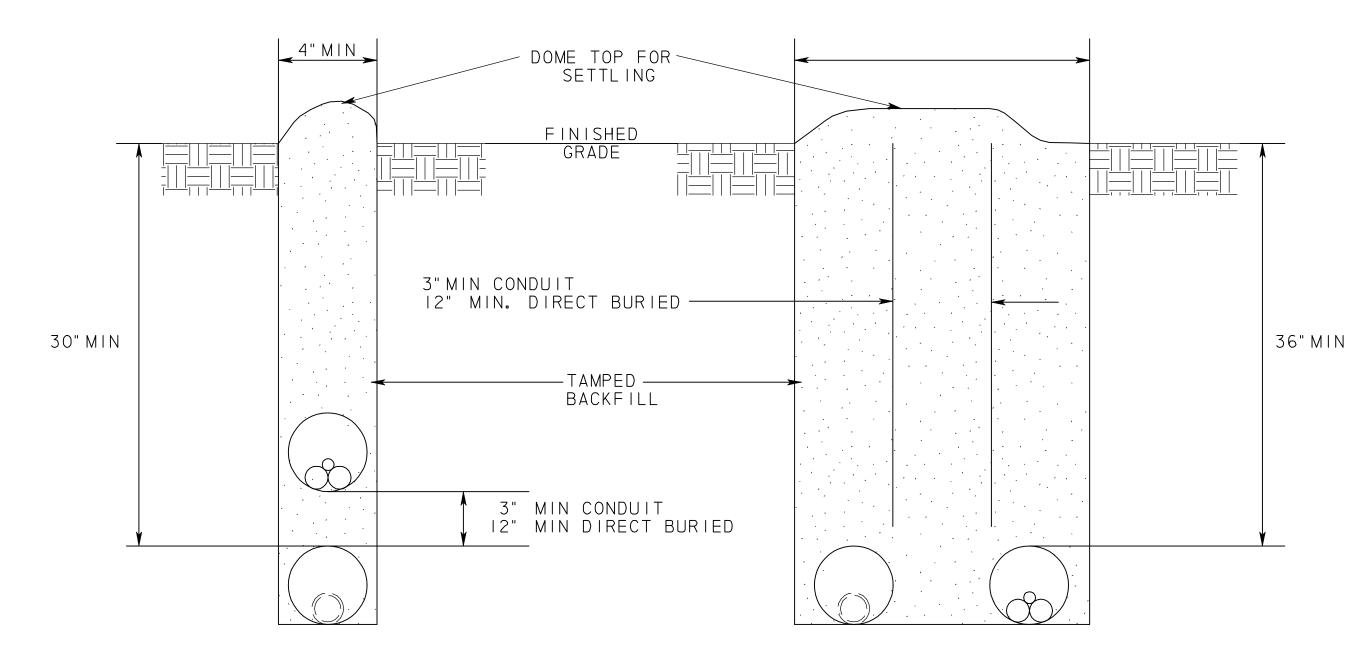
1 PRIMARY CONDUIT

2 PRIMARY CONDUIT



1 PRIMARY CONDUIT AND 1 SECONDARY CONDUIT VERTICALLY ARRANGED

1 PRIMARY CONDUIT AND 1 SECONDARY CONDUIT HORIZONTALLY ARRANGED

## NOTES:

- I) TRENCH ALIGNMENT SHALL BE AS STRAIGHT AS CONDITION PERMITS. ANY DEVIATION FROM PLAN ALIGNMENT SHALL HAVE PRIOR APPROVAL BY THE PROJECT ENGINEER/INSPECTOR. ALL TRENCH CUT SHALL BE IN ACCORDANCE WITH EXISTING SAFETY REGULATION IN EFFECT.
- 2) TRENCH BOTTOM SHOULD BE UNDISTURBED, TAMPED, OR RELATIVELY SMOOTH EARTH. WHERE EXCAVATION IS IN ROCK, THE CONDUIT SHOULD BE LAID ON A LAYER OF CLEAN BACKFILL.
- 3) ALL BACKFILL SHOULD BE FREE OF DEBRIS OR OTHER MATERIAL THAT MAY DAMAGED THE CONDUIT SYSTEM OR CAUSE SETTLING. THE MATERIAL SHOULD FILL THE VOIDS AROUND THE CONDUIT TO PREVENT HOT SPOTS & SETTLING.
- 4) BACKFILL SHOULD BE ADEQUATELY COMPACTED. BACKFILL NOT UNDER PAVEMENT SHOULD BE COMPACTED TO THE DENSITY OF THE SURROUNDING UNDISTURBED SOIL. BACKFILL UNDER PAVEMENT SHOULD BE COMPACTED TO NOT LESS THAN 95% DENSITY OF THE UNDISTURBED SOIL AS DETERMINED BY ASTM DESIGNATION D-698.
- 5) EACH CONDUIT RUNS SHALL BE CHECKED BY PULLING A MANDREL THROUGH THE ENTIRE LENGTH. AN APPORVED PULL TAPE SHALL BE LEFT IN EACH CONDUIT. CONDUIT SHALL BE PLUGGED AT BOTH ENDS.

## APPROVED PULL TAPES

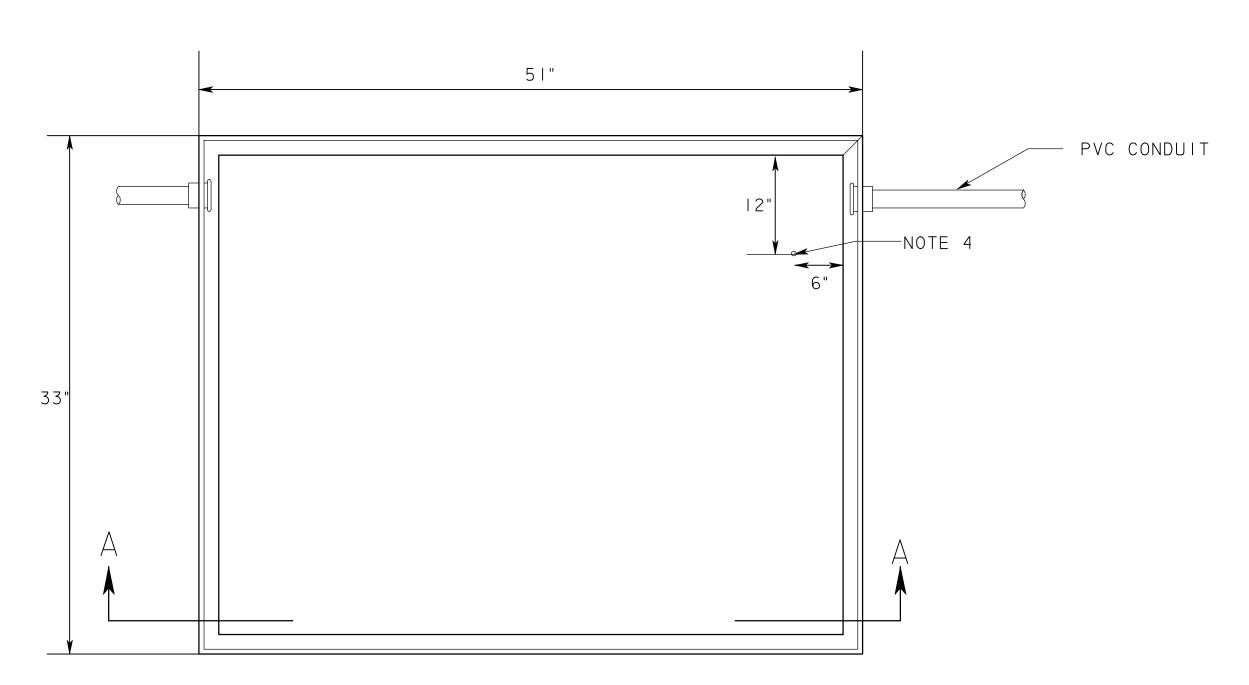
CONDUIT SIZE	MANUFACTURER	CATALOG NO.
l", 2", 3" & 4"	ARNCO NEPTCO, INC.	BLWP25 WP2500P
6"	ARNCO NEPTCO, INC	BL WP60 RP6000N

- 6) CONTACT TXU REPRESENTIVE FOR TRENCH DIMENSIONS FOR MORE THAT 2 CONDUITS IN SAME DITCH.
- 7) ALL CONDUITS AND BENDS SHALL BE SCHDULE 40 AND SHALL BE ELECTRICAL GRADE. ALL PVC CONDUITS AND BENDS SHALL BE 2" DIAMETER AND GRAY IN COLOR.

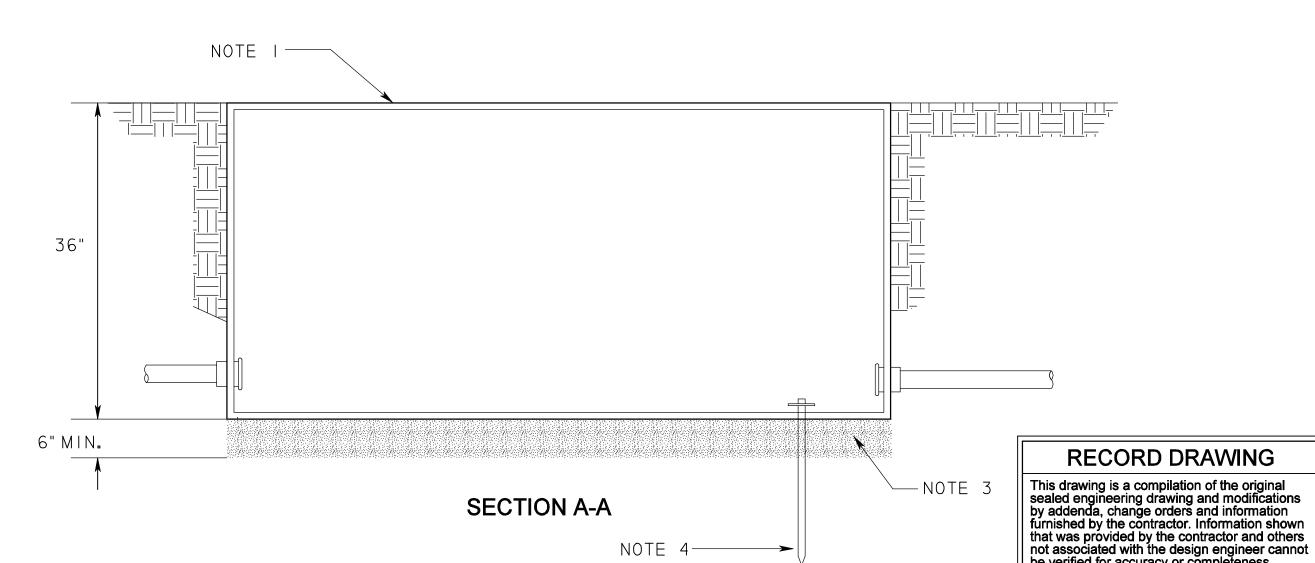
DETAILS FROM TXU ELECTRICAL DELIVERY
SPECIFICATION FOR UNDERGROUND DISTRIBUTION SYSTEM FROM
PADMOUNTED TRANSFORMATION, SECONDARY SERVICE ACCOUNTS.
(SPECIFICATION DDS-4 UG REVISION 9, OCTOBER 2006)

## UTILITY TRENCH DETAIL

N.T.S



**TOP VIEW** 



## NOTES:

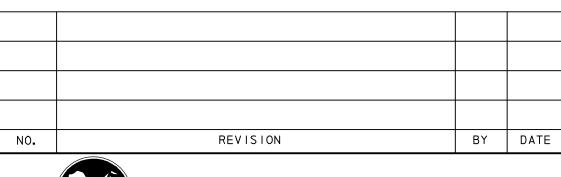
- I) 30" X48" X36" SPLICE/PULL BOX DESIGNED FOR PARKWAY INSTALLATION WITH HIO LOADING (LIGHT TRAFFIC). CONTACT TXU REPRESENTATIVE ON WHERE TO ACQUIRE SUBSURFACE SPLICE/PULL BOX.
- 2) THIS BOX IS INTENDED FOR USE AS AN INTERMEDIATE SPLICE BOX AS NEEDED DUE TO LONG PULLING DISTANCES AND RESTRICTION TO SINGLE #1/O CABLES.
- 3) TAMP ALL DISTURBED SOIL UNDERNEATH PAD TO 95% COMPACTION AS PER ASTM D 698 AND INSTALL A 6 INCH WELL TAMPED LAYER OF GAVEL FILL.
- 4) CONTACT TXU ON WHERE TO ACQUIRE \(^{\sigma}\_8\)" X8\" COPPER CLAD GROUND ROD. GROUND ROD TO BE OBTAINED AND INSTALL BY CONTRACTOR. INSTALLATION DEPTH SHALL BE 7'-6\".

DETAILS FROM TXU ELECTRICAL DELIVERY
SPECIFICATION FOR UNDERGROUND DISTRIBUTION SYSTEM FROM
PADMOUNTED TRANSFORMATION, SECONDARY SERVICE ACCOUNTS.
(SPECIFICATION DDS-4 UG REVISION 9, OCTOBER 2006)

SINGLE PHASE PRIMARY
SUBSURFACE SPLICE/PULL BOX INSTALLATION
N.T.S

ORIGINAL DRAWING SEALED & SIGNED BY T.H. Gaertner, P.E. TX NO. 37124

be verified for accuracy or completeness.
Original sealed drawing is on file at the office of AECOM USA Group, Inc.,
TBPE REG. NO. F-3082





205 BYPASS PHASE 3

MISCELLANEOUS UTILITY DETAIL

 TCB
 AECOM
 www.tcb.aecom.com

 17300 DALLAS PARKWAY, SUITE 1010

 DALLAS, TEXAS 75248

 Unit
 PW-DAL-FW
 Scale:
 Horz: AS SHOWN
 Date
 11/23/2009

 Designed
 SDB
 Checked
 TCB
 Project No.
 60004153

 Drawn
 TCB
 Approved
 TCB
 Sheet
 109 of
 215

TCB INC.

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