

Transmission & Distribution
Material & Installation Specification

Primary Metering Enclosure Concrete Foundation-600A Max

I. Quantity

The base bid shall include the indicated number of Primary Metering Enclosure Concrete Foundation-600A Max as hereinafter specified.

II. Material

- A. The material shall be equal in quality, design, performance, and appearance to the items specified on drawing TDMIS-1011.
- B. Concrete shall be City of Columbus Class C, 3500 pounds minimum with 6% to 10% air. Pad shall be broom finish.
- C. Wire reinforcing mesh shall be 5"x5" square web #4 grade 60 steel.
- D. Compacted structural fill shall be place under pad to provide level firm base from the underside of concrete pad to undisturbed soil below.
- E. Each pad shall be provided with openings sized as shown to allow access of primary cables and metering wiring and/or conduits.

III. Installation

- A. The installation shall be as shown on drawing TDMIS-1011.
- B. The installation shall include removal of top soil and any organic materials down to subgrade. Subgrade shall be compacted with a motorized compactor to provide a solid level base. Add controlled density fill as required to establish proper pad elevation.

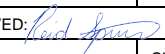
- C. Finished pad shall be installed level. When installed over a trench, the front side only shall be over the trench. Careful placement and positioning is required to remain within the available right of way or easement.

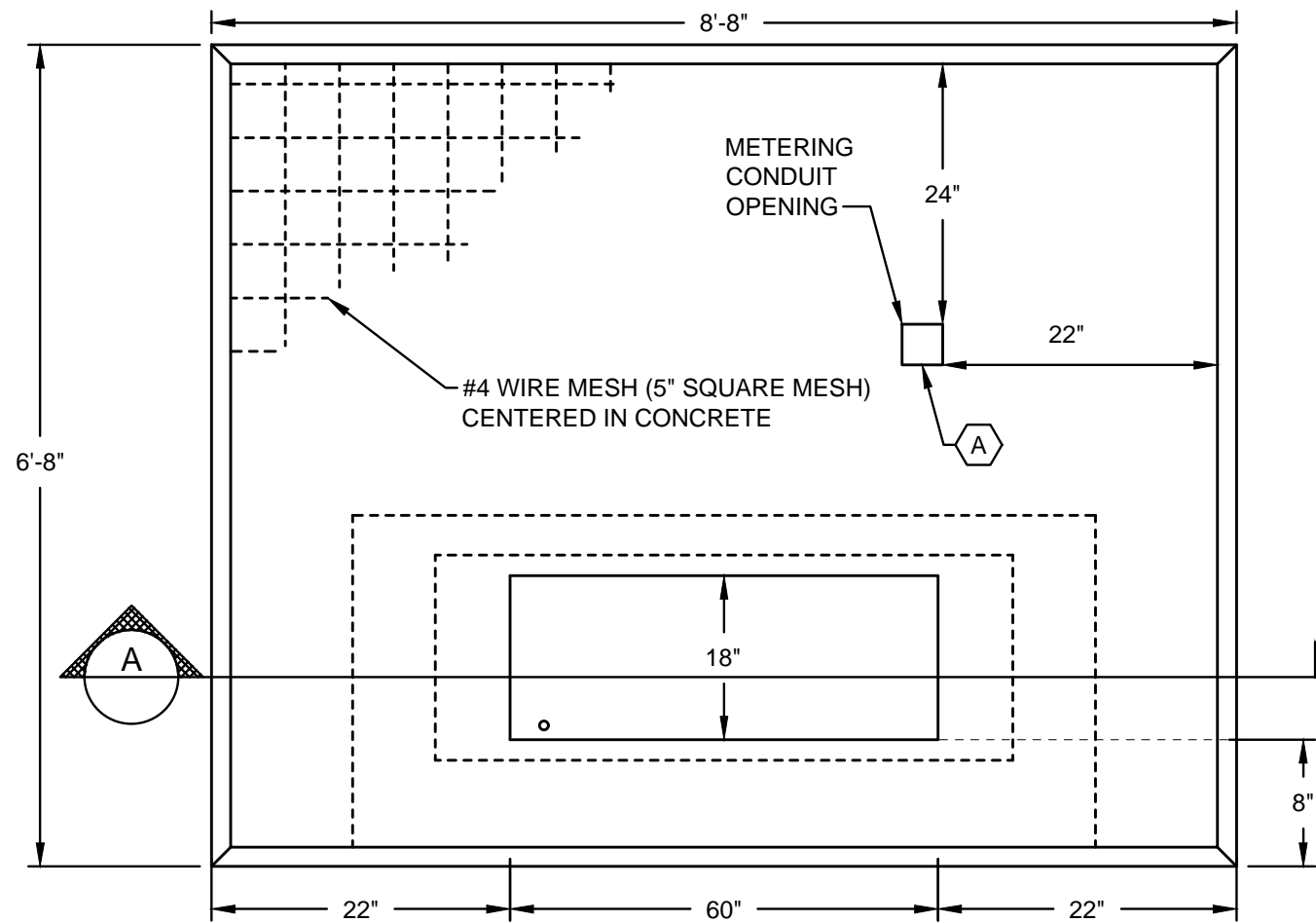
IV. Method of measurement

Shall include a pad and accessories, structural fill, labor, equipment, tools, supervision, and miscellaneous required for a complete and operational assembly.

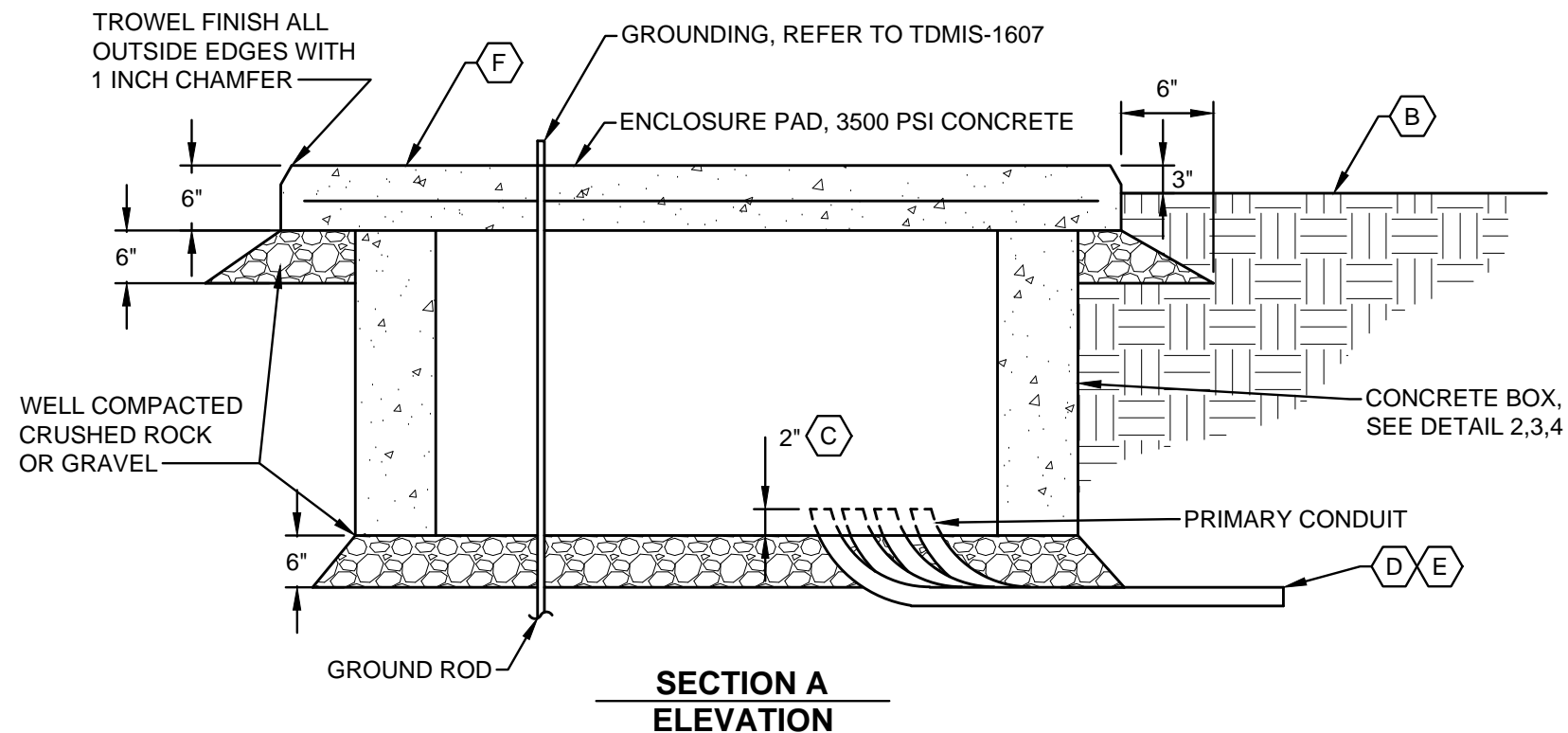
V. Basis of payment

Items	Unit	Description
TDMIS-1011	Each	Primary Metering Enclosure Concrete Foundation 600A Max

CITY OF COLUMBUS DEPT. OF PUBLIC UTILITIES – DIVISION OF POWER PRIMARY METERING ENCLOSURE CONCRETE FOUNDATION - 600A MAX		
DRAWN BY: AEC	DATE: 01/01/2017	TDMIS-1011
APPROVED: 		
SHEET 1 of 3		



**DETAIL 1
PLAN VIEW**



**SECTION A
ELEVATION**

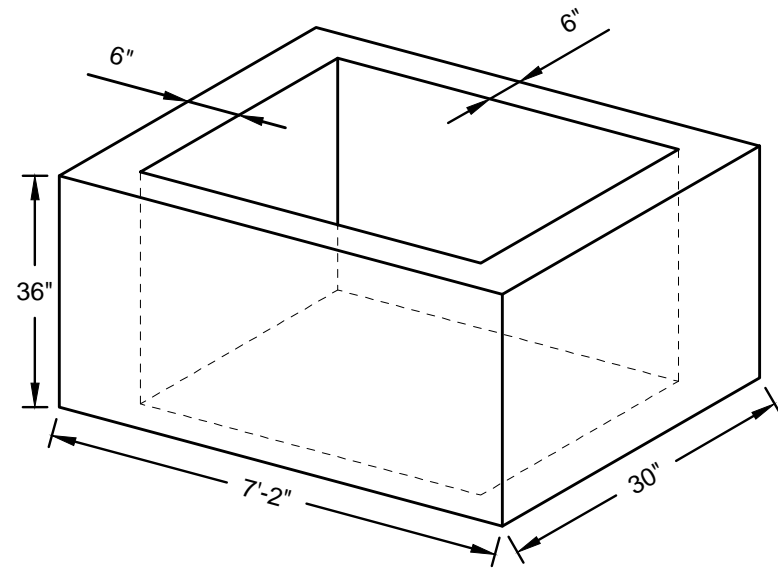
CODED NOTES:

- (A) THE NUMBER OF METERING CONDUITS AND PLACEMENT TO BE DETERMINED BY ENGINEERING.
- (B) FINAL GRADE SHALL BE ESTABLISHED BEFORE INSTALLATION OF PAD.
- (C) IN ORDER TO ACHIEVE CABLE FLEXIBILITY, CONDUIT EXTENDING INTO CONCRETE BOX IS TO BE CUT AS SHOWN.
- (D) PRIMARY CONDUIT NUMBER, SIZE, LOCATION AND DIRECTION TO BE SPECIFIED BY ENGINEERING. CONDUIT CAN BE FLEXIBLE, OR SCHEDULE 40 PVC CONDUIT WITH 90 DEG, 36 INCH RADIUS BENDS TO AVOID DISTURBING THE GROUND UNDER THE REAR OF THE PAD AND TO MINIMIZE SETTLING. BRING CONDUITS TO THE FRONT OR SIDES WHENEVER POSSIBLE AND MARK THE CONDUIT END LOCATIONS.
- (E) BURIAL DEPTH IS DEFINED AS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE BURIED CABLE OR CONDUIT. PRIMARY CABLES SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 3'-0". IT IS RECOMMENDED THAT PRIMARY CABLES MAINTAIN BURIAL DEPTHS OF 2'-6": THE INITIAL 3'-0" DEPTHS ARE TO ALLOW FOR CHANGES IN SURFACE CONDITIONS.
- (F) FINAL PAD INSTALLATION SHALL BE LEVEL AS MEASURED BY CARPENTER'S LEVEL FOR ALL DIRECTIONS.

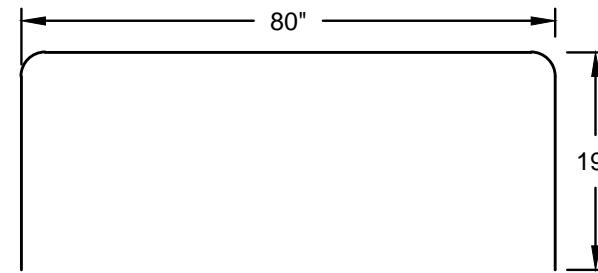
CITY OF COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES - DIVISION OF POWER		
PRIMARY METERING ENCLOSURE CONCRETE FOUNDATION-600 AMP MAX		
DRAWN BY: AEC	DATE: 01/01/2018	TDMIS-1011
APPROVED: <i>[Signature]</i>		
SCALE: NTS	SHEET: 2 OF 3	

CODED NOTES:

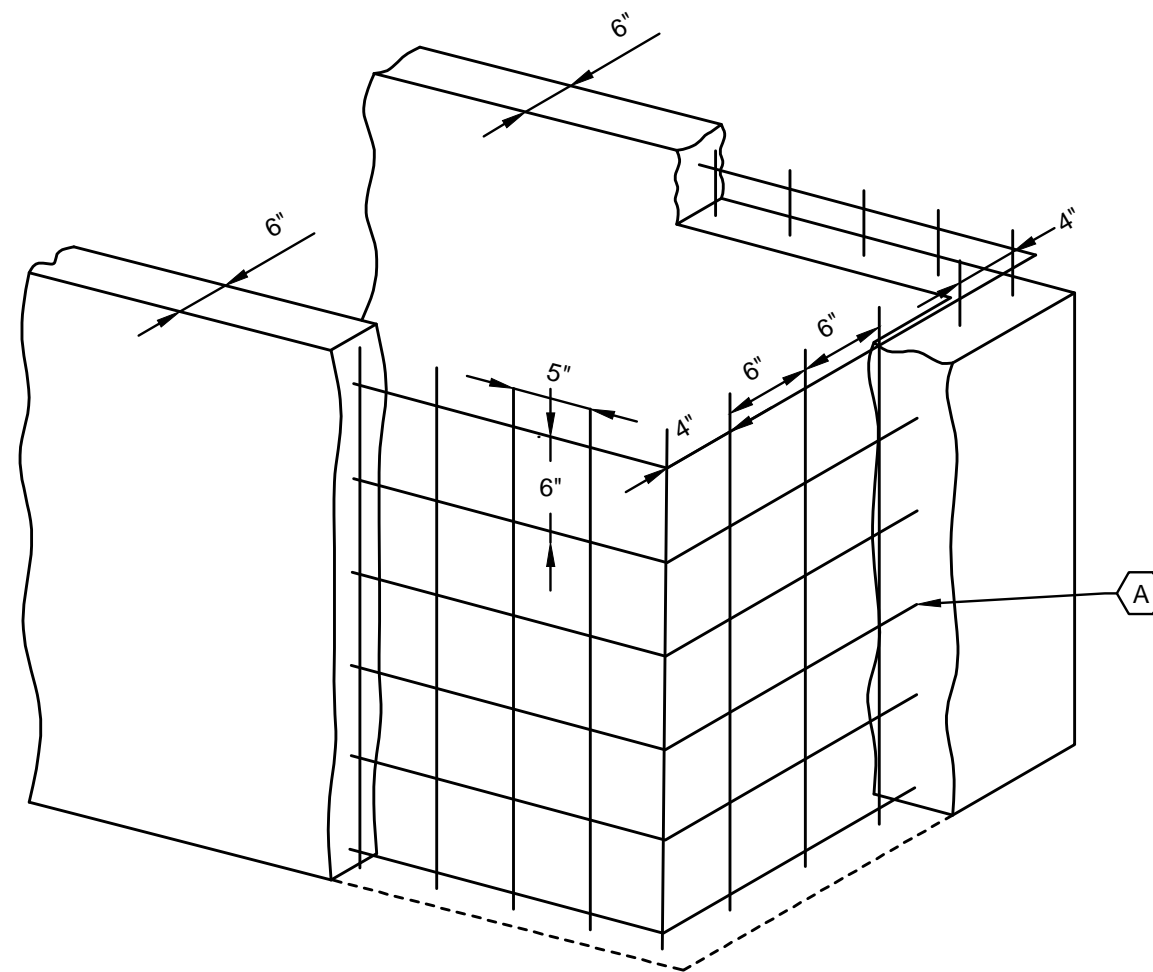
A ALL REBARS ARE SIZE #3 CENTERED IN CONCRETE. VERTICAL REBARS ARE 30 INCHES LONG PLACED ON 5 INCH CENTERS EXCEPT WHERE NOTED. HORIZONTAL REBARS ARE 118 INCHES LONG, BENT AS SHOWN IN DETAIL 3 AND PLACED ON 6 INCH CENTERS.



DETAIL 2
CONCRETE BOX INSTALLATION



DETAIL 3
HORIZONTAL REBAR



DETAIL 4
REBAR INSTALLATION

CITY OF COLUMBUS, OHIO DEPT. OF PUBLIC UTILITIES - DIVISION OF POWER		CONCRETE PAD AND BOX FOR THREE PHASE PADMOUNT TRANSFORMER
DRAWN BY: AEC	DATE: 01/01/2018	
APPROVED: <i>[Signature]</i>		TDMIS-1011
SCALE: NTS	SHEET: 3 OF 3	