I. **Quantity**

The base bid shall include the indicated number of foundations to be constructed as hereinafter specified locations on the drawings and located in the field by the engineer.

II. **Material**

a. **Concrete** - The concrete shall be as specified in Item 499 of City of Columbus Construction and materials specifications Class C.

b. **Anchor Rods** - The anchor rods shall be as supplied by the pole manufacturer and in any case shall be not less than 3/4" diameter x 20" hot dipped galvanized.

c. **Shims & Nuts** - All shims and nuts shall be hot dipped galvanized.

d. **Conduit Ells** - Conduit ell shall be 2", 90-degrees sweep, 24-inch radius schedule 40 PVC, Carlon, Heritage, Cantex PV - conduit or approved equal, on open trench installation. 1 1/2" cable-in-duct shall be a continuous wide sweep into foundation.

e. **Ground Rods** - The ground rod shall be 1/2" x 10', copperclad (Blackburn #5008, Galvan) or approved equal.

f. **Reinforcing Bars** - All reinforcing bars shall be formed steel of the size indicated on the drawing.

g. **Ground Rod Clamp** - The ground rod clamp shall be an approved equal to Blackburn #JAB 1/2H, Galvan G-5 or approved equal.

III. **Installation**

a. The foundations shall be as shown on drawing 01S0034.

b. At each location the sidewalk shall be saw cut, the concrete removed and an excavation made in the earth large enough to accommodate the complete foundation. The excess earth and materials shall be hauled away from the site and the hole shall be clean and firm to receive the concrete.

c. Top 6" to 8" of foundation shall be square.

d. The forms to hold the anchor rods, conduit ell, etc., during the pouring of the concrete shall be wood or metal.

e. The sidewalk shall be replaced within the expansion joints of the four foot area around the foundations, after foundations have been allowed to set and the backfill earth has been firmly tamped.

IV. **Quotation**

The reinforced foundation as hereinbefore specified shall be quoted on as a unit price each in the appropriate place of this document.
TRANSFORMER BASE (IF REQUIRED)
1" RIGID ELBOW CONDUIT
1" CHAMFER
FORM TOP 6" TO 8" OF FOUNDATION-SQUARE
6-#6 VERTICAL REBARS
90° ELBOW 24" R. MIN.- 2" PVC OR CONTINUOUS WIDE SWEEP CABLE-IN-DUCT
4-#4 TIE BARS
1/2" X 10' COPPERCLAD GROUND ROD W/#6 BARE SOLID CU. GROUND WIRE
POSITION ANCHOR BOLTS PER MANUF. TEMPLATE

NOTES
1) ALL REBAR SHALL HAVE MIN. OF 3' OF CONCRETE ENCASEMENT

SECT. A

SECT. B

3'

#4 TIE BAR

3'-0'

BACK OF CURB

FOUNDATION PLAN

MUNICIPAL ELECTRIC LIGHT & POWER SYSTEM
CITY OF COLUMBUS, OHIO
DEPT. OF UTILITIES - DIVISION OF ELECTRICITY

MEL&P

RESIDENTIAL ST. LTG.
4' FOUNDATION

1/2" = 1'

WK C 9/86

01S034

SHEET OF
SIDEWALKS SHALL BE CONSTRUCTED WITH P.C. CONCRETE (CLASS C, ITEM 499) WHICH SHALL CONTAIN 5% TO 8% ENTRAINED AIR AND A 3" MAXIMUM SLUMP.
WHERE DRIVEWAYS CROSS THE SIDEWALK, THE CONCRETE SHALL BE 5" THICK. SEE STANDARD DRAWING 2201 DR. A.
LENGTH AND SLOPE OF DRIVEWAY RAMPS ARE VARIABLE ACCORDING TO THE DISTANCE OF THE SIDEWALK FROM THE CURB, SEE STANDARD DRAWING 2201 DR. A.
ALL CONCRETE SHALL BE PLACED IN ONE Course AND FINISHED WITH A WOOD FLOAT.
EXPANSION JOINTS SHALL BE PLACED WHEREVER NEW CONCRETE TOUCHES EXISTING CONSTRUCTION AND AT INTERVALS OF 30' OR LESS.
WATER AND GAS VALVES BOXES IN THE SIDEWALK AREA SHALL BE ADJUSTED TO PROPER GRADE.
REPAIR DRAINS SHALL BE EXTENDED UNDER THE SIDEWALK AND THROUGH THE CURB, SEE STANDARD DRAWING 2200 DR. A.
FORMS SHALL BE MADE OF LUMBER 2" NOMINAL THICKNESS OR OF EQUIVALENT RISS METAL.
IMMEDIATELY AFTER FINISHING, CONCRETE SHALL BE CURLED IN AN APPROVED MANNER.
WHEN A SIDEWALK IS CONSTRUCTED FOR THE ENTIRE WIDTH FROM THE CURB TO THE LOT LINE, THE VALK SHALL BE CONSTRUCTED PART WITH 48" MIN. AT A TIME, ALLOWING FOR SUFFICIENT UNOBSTRUCTED AREA 48" MIN. FOR SAFE MOVEMENT OF PEDESTRIAN TRAFFIC.
NOTIFY THIS OFFICE WHEN FORMS WILL BE READY FOR INSPECTION AT LEAST 24 HOURS BEFORE CONCRETE IS TO BE PLACED. TELEPHONE 645-7497. IN NO CASE MAY CONCRETE BE PLACED WITHOUT APPROVAL OF FORM WORK BY THE INSPECTOR. NO CONCRETE SHALL BE PLACED UNTIL TEMPERATURE IS 20° F. MIN. CONCRETE SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 451.061 OF THE CURRENT EDITION OF THE COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
TRANSPORTATION DIVISION

STANDARD SIDEWALKS
ITEM 608 & SPECIFICATIONS

REV. 07/15/02
REV. 10/01/01
WATER AND GAS VALVES BOXES IN THE SIDEWALK AREA SHALL BE ADJUSTED TO PROPER GRADE.
ROOF DRAINS SHALL BE EXTENDED UNDER THE SIDEWALK AND THROUGH THE CURB. SEE STANDARD DRAWING 2200 DR. A.
FORMS SHALL BE MADE OF LUMBER 2' NOMINAL THICKNESS OR OF EQUALLY RIGID METAL.
WHERE DRIVEWAYS CROSS THE SIDEWALK, THE SIDEWALK AREA SHALL BE 6" THICK CONCRETE W/2% MAX. CROSS SLOPE.
SEE STANDARD DRAWING 2201 DR. A.
WHEN A SIDEWALK IS CONSTRUCTED FOR THE ENTIRE WIDTH FROM THE CURB TO THE LOT LINE, THE WALK SHALL BE CONSTRUCTED PART WIDTH AT A TIME OF 48", ALLOWING FOR SUFFICIENT UN-OBSTRUCTED AREA 48" FOR SAFE MOVEMENT OF PEDESTRIAN TRAFFIC.
NOTIFY THIS OFFICE AT LEAST BY 24 HOURS (TELEPHONE 645-7497) WHEN FORMS WILL BE READY FOR INSPECTION.
THE SAND TO CEMENT RATIO IS 5 PARTS SLAG TO 1 PART CEMENT.

ITEM NUMBERS REFER TO THE CITY OF COLUMBUS, OHIO STANDARD CONSTRUCTION AND MATERIAL SPECIFICATIONS. TRANSPORTATION DIVISION. CURRENT AMENDMENT AND ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE SPECIFICATIONS.

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
TRANSPORTATION DIVISION

STANDARD BRICK SIDEWALKS
SPECIFICATIONS
(RESIDENTIAL)

REV. 07/15/02
REV. 10/01/01

2301 DR. A

APPROVED: [Signature]
CITY ENGINEER
DATE: 9/1/07
SIDEWALKS CONSTRUCTED WITH P.C. CONCRETE, ITEM 490 which shall contain 5% to 8% entrained air and a 3% maximum slump.

WHERE DRIVEWAYS CROSS THE SIDEWALK, THE SIDEWALK AREA SHALL BE 6" THICK CONCRETE. SEE STANDARD DRAWING 2261 DR. A. LENGTH AND SLOPE OF DRIVEWAY RAPS ARE VARIABLE ACCORDING TO THE DISTANCE OF THE SIDEWALK FROM THE CURB, SEE STANDARD DRAWING 2261 DR. A.

ALL CONCRETE SHALL BE PLACED IN ONE COURSE AND FINISHED WITH A WOOD FLOAT.

EXPANSION JOINTS SHALL BE PLACED WHEREVER NEW CONCRETE TOUCHES EXISTING CONSTRUCTION AND AT INTERVALS OF 30' OR LESS.

WATER AND GAS VALVES BOXES IN THE SIDEWALK AREA SHALL BE ADJUSTED TO PROPER GRADE.

ROOF DRAINS SHALL BE EXTENDED UNDER THE SIDEWALK AND THROUGH THE CURB. SEE STANDARD DRAWING 2260 DR. A.

FORMS SHALL BE MADE OF LUMBER 2" NORMAL THICKNESS OR EQUALY RIGID MATERIAL. IMMEDIATELY AFTER FINISHING, CONCRETE SHALL BE CURED IN AN APPROVED MANNER.

WHEN A SIDEWALK IS CONSTRUCTED FOR THE ENTIRE WIDTH FROM THE CURB TO THE LOT LINE, THE VALK SHALL BE CONSTRUCTED PART WIDTH AT A TIME 48' MAX. ALLOWING FOR SUFFICIENT UN-OBSTRUCTED AREA 48' MAX. FOR SAFE MOVEMENT OF PEDESTRIAN TRAFFIC.

NOTIFY THIS OFFICE WHEN FORMS WILL BE READY FOR INSPECTION, AT LEAST 24 HOURS BEFORE CONCRETE IS TO BE PLACED. TELEPHONE 645-7497.

NO CONCRETE SHALL BE PLACED UNTIL TEMPERATURE IS 35° F. MIN. CONCRETE SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 45L26 OF ITEM 451.

ONE INCH CONTRACTION JOINTS SHALL BE SAWED IN THE CONCRETE EVERY 10 FT.

ITEM NUMBERS REFER TO THE CITY OF COLUMBUS, OHIO STANDARD CONSTRUCTION AND MATERIAL SPECIFICATIONS, TRANSPORTATION DIVISION. CURRENT ADDITION AND ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE SPECIFICATIONS.

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
TRANSPORTATION DIVISION

STANDARD BRICK SIDEWALKS
SPECIFICATIONS
(ARTERIAL)

2301 DR. A

REV. 07/15/02
REV. 10/01/01
ITEM SPECIAL - BRICK PAVERS INCLUDING CONCRETE BASE

MATERIAL NOTES:

NEOPRENE-MODIFIED ASPHALT ADHESIVE - FURNISH NEOPRENE-MODIFIED ASPHALT ADHESIVE THAT CONTAINS 2% NEOPRENE, GRADE WMI OXIDIZED ASPHALT WITH A 150 DEGREE SOFTENING POINT (77 PENETRATION), AND 10% LONG FIBERED INERT MATERIAL AS SUPPLIED BY (OR APPROVED EQUAL):

SEIDEL COMPANY, INC. HASTINGS PAVEMENT COMPANY, INC.
11 MARKET SQUARE 410 LAKEVILLE ROAD
NEWBURYPORT, MASSACHUSETTS 01950 LAKE SUCCESS, NEW YORK 11042
(617) 649-6740 (516) 379-3500

BITUMINOUS SETTING BED - FURNISH ASPHALT CEMENT CONFORMING TO ASTM D3391, VISCOSITY GRADE AC-10 OR AC-20.


COMBINE THE DRIED FINE AGGREGATE WITH HOT ASPHALT CEMENT AND MIX HEAT TO APPROXIMATELY 300°F AT AN ASPHALT PLANT.

A. PROVIDE AN APPROXIMATE PROPORTION OF MATERIALS OF 7% ASPHALT CEMENT AND 93% FINE AGGREGATE.

B. PROVIDE EACH TON APPORTIONED BY WEIGHT TO 140 POUNDS OF ASPHALT CEMENT AND 1,860 POUNDS OF FINE AGGREGATE.

PAVERS - ALL BRICK PAVERS SHALL BE SOLID CONCRETE PAVING UNITS CONFORMING TO ASTM C936 AS SUPPLIED BY (OR APPROVED EQUAL):

PAVERLOCK
4600 DEVITT DRIVE
P.O. BOX 46387
CINCINNATI, OHIO 45246

CONCRETE BASE - ALL WORK FOR THE CONCRETE BASE SHALL CONFORM TO ITEM 606, EXCEPT THAT THE 606 REQUIREMENTS FOR EDGING OUTSIDE EDGES AND CONTROL JOINTS AT 5-FOOT INTERVALS SHALL BE WAIVED.

METHOD OF MEASUREMENT - PAVERS WILL BE MEASURED BY THE SQUARE FOOT FINISHED PAVERS COMPLETE IN PLACE.

BASIS OF PAYMENT - THE ACCEPTED QUANTITIES OF BRICK PAVERS WILL BE PAID FOR AT THE CONTRACT PRICES DESIGNATED FOR EACH OF THE PAVER TYPES SHOWN ON THE PLANS. EXCAVATION, BACKFILL, EXPANSION JOINT MATERIAL, ASPHALT ADHESIVE, BITUMINOUS SETTING BED, 4-INCH CONCRETE BASE, AND OTHER RELATED MISCELLANEOUS ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE COST OF THE BRICK PAVERS OF WHICH THEY ARE A PART.