

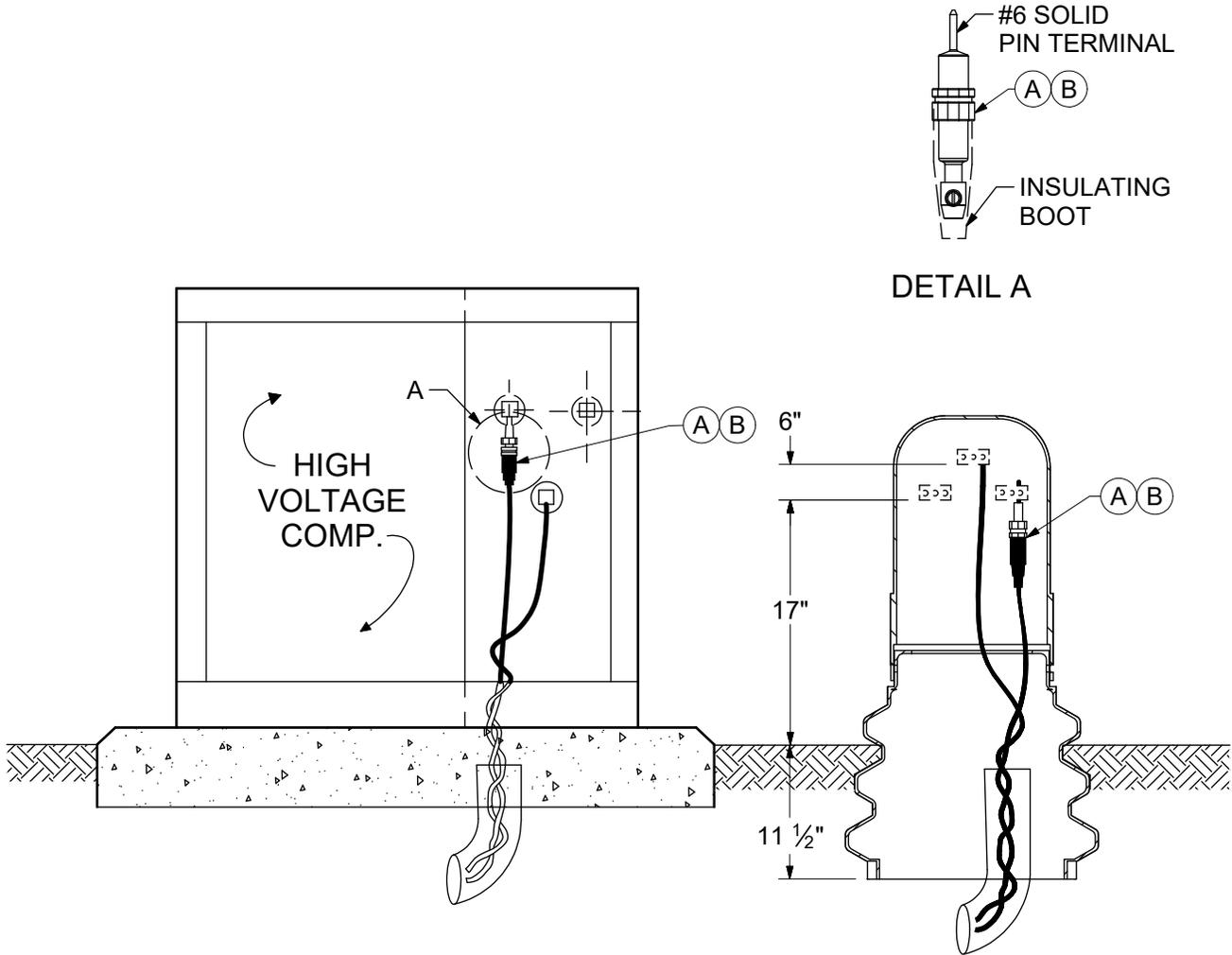


EQUIPMENT CONNECTIONS

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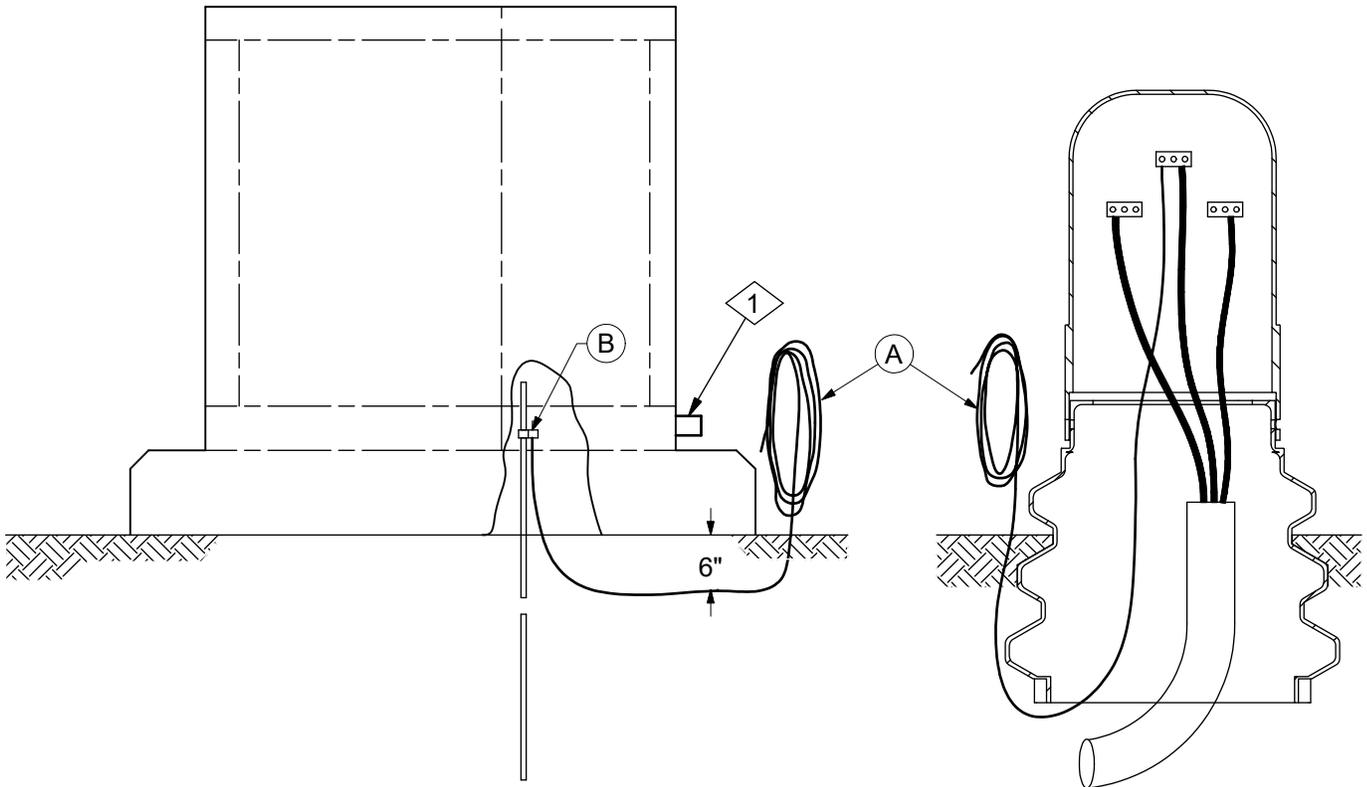
FUSED STREETLIGHT CABLE CONNECTIONS, PADMOUNTED TRANSFORMER OR PEDESTAL.....	52 00 01 **
GROUND WIRE PROVISION FOR COMMUNICATIONS.....	52 00 02 **
THREE PHASE MULTIPLE SECONDARY/SERVICE, TERMINATION CABINET.....	52 10 01 00
SECONDARY PEDESTAL, ABOVE GRADE - POLYETHYLENE.....	52 11 01 **



CONSTRUCTION NOTE(s):

1. To fuse underground streetlight cable on overhead secondaries, see DCS **15 74 50 01**.
2. Fuseholder, Stock #20 76 144, is stocked with a cable connector on each end. This fuseholder should be used whenever connectors are too full of cables to readily use fuseholder, Stock #20 76 141 or if the connectors are covered with a PVC insulated cover that prevents the pin terminal from being inserted.

	ITEM	STK / DCS #	DESCRIPTION	52 00 01 **	01	02
2	A	20 76 141	Fuseholder-InLine, with Copper Pin Terminal		1	-
		20 76 144	Fuseholder-InLine, with Two Screw Terminals		-	1
	B	20 76 140	Fuse-Cartridge, 30 Amp.		1	1



DCS #	DESCRIPTION
52 00 02 01	Ameren connects ground wire at time of transformer or pedestal installation and leaves wire coiled for Communication Company.
52 00 02 02	Ameren connects ground wire left by Communication Company after transformer or pedestal have been installed.

CONSTRUCTION NOTE(s):

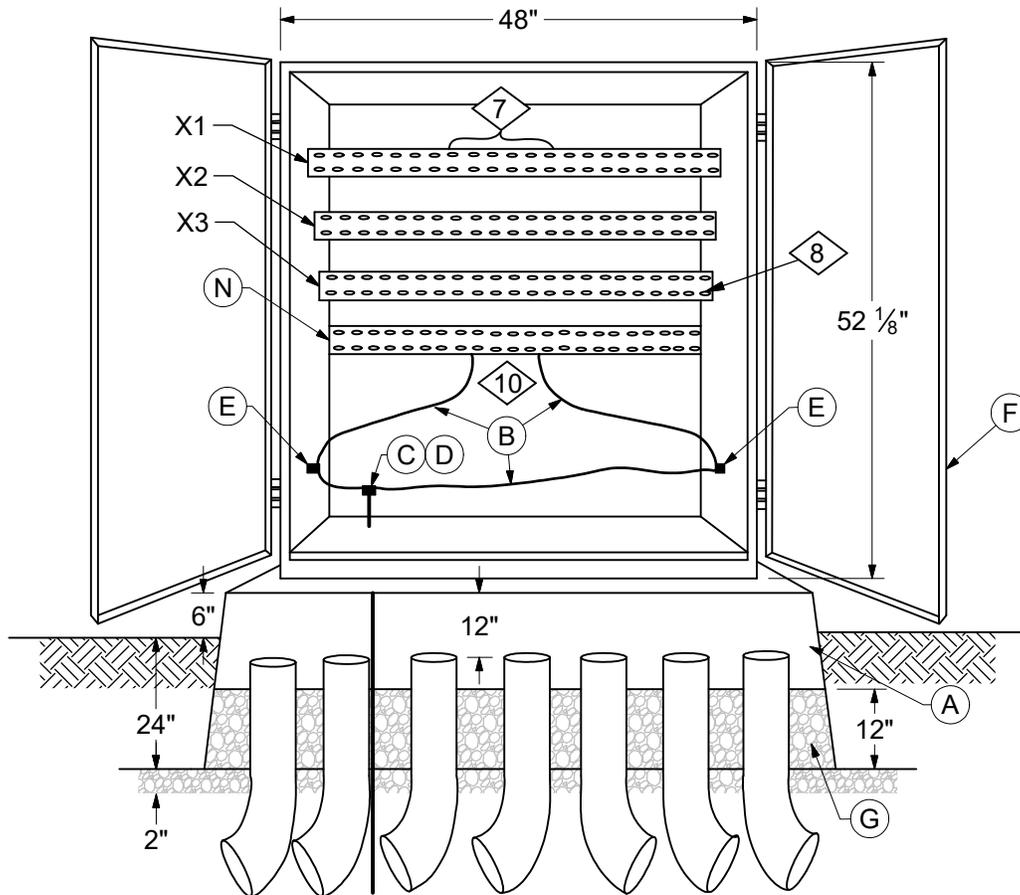
1. New padmount transformers are equipped with an external ground lug.

ITEM	STK / DCS #	DESCRIPTION	52 00 02 **	01	02
A	18 51 021	Wire - Cu., #6 Poly Cov. Ft.		18	-
B	17 52 032	Clamp - Grd. Rod. 5/8" For #8 - 1/0		1	1
C	712	Op Code Ground Connection for Coms		1	1

DESIGN NOTE(s):

2. If metallic box is less than 6' from a transformer or pedestal, it must be connected to an Ameren provided ground as shown.

REV	DATE	ENG	DESCRIPTION
2	01/01/23	JMW	Converted to new format
1	06/29/11	DCG	



CONSTRUCTION NOTE(s):

1. An initial depth of 26" shall be excavated and all loose soil shall be removed or tamped. The length + width of the hole shall be sized to allow a minimum of 6" of clearance on all sides.
2. Add 2" of screening, compact, and set box pad.
3. Final depth should be adjusted to provide 6" of exposed ground pad at final grade.
4. Provide 12" of space between the top of the box pad and the end of the conduits.
5. Stabilize the box pad and conduits by placing 12" of crushed stone screening inside the box pad and tamp in place.
6. Backfill with loose material, DO NOT backfill next to the ground sleeve pad with chunks of material or rocks. Pack loose backfill by four tamping and do not tamp excessively close to the ground sleeve pad sides.

7. Center positions of each bus are reserved for Ameren feed cables.
8. Bus has 22 lay-in style connectors that accept up to 1000 kcmil. Clean the contact surfaces of connectors and cables then coat them with inhibitor.
9. Secure the enclosure to the pad.
10. Be sure that the enclosure is grounded by attaching ground wires to the ground rod and to the neutral bus.

REV	DATE	ENG	DESCRIPTION
7	01/01/23	JMW	Converted to new format
8	09/07/17	JMW	



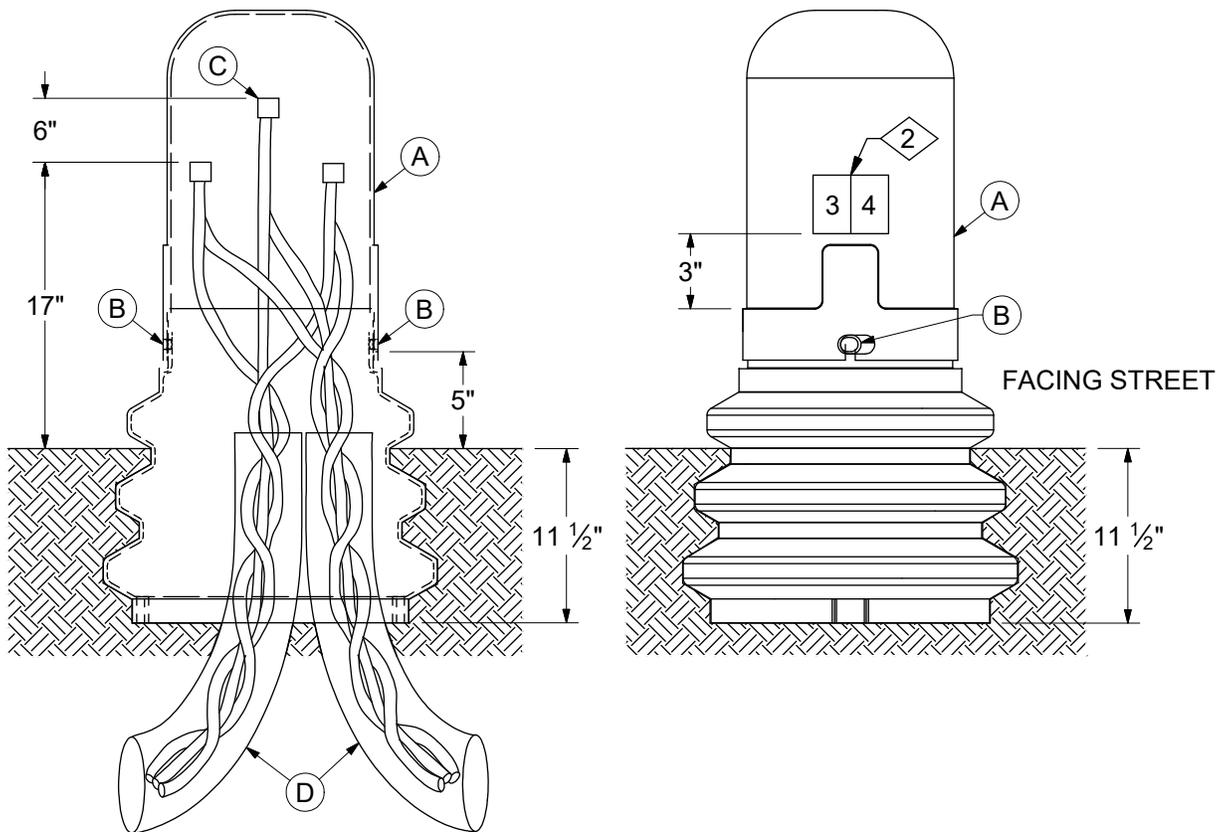
EQUIPMENT CONNCTIONS

Three Phase Multiple Secondary/Service
Termination Cabinet

52 10 01 00
600V
2 of 2

ITEM	STK / DCS #	DESCRIPTION	52 10 01 **	00
A	12 06 196	Pad - Fiberglass 49" x 24" x 30"		1
B	18 52 025	Wire - Copper, #2 Solid, Soft Drawn		12
C	23 13 069	Rod - Ground, 5/8" x 8'		1
D	17 52 032	Clamp - Ground Rod, 5/8" #8 - 1/0		1
E	69 58 121	Connector - Ground		2
F	54 07 236	Enclosure - Padmount, 3 Ph Secondary		1
G	-	Screenings		#

REV	DATE	ENG	DESCRIPTION
7	01/01/23	JMW	Converted to new format
8	09/07/17	JMW	



DCS #	DESCRIPTION
52 11 01 01 & 06	Ameren Installed 1 Phase
52 11 01 02	Contractor Installed 1 Phase
52 11 01 03 & 05	Ameren Installed 3 Phase
52 11 01 07	Ameren IL Installed 1 Phase

CONSTRUCTION NOTE(S)

- When used for 3 phase applications, the top should be marked "3 PH" using reflective numbers and letters.
- Use reflective numbers (Stock #16 04 108 thru 16 04 116) to show the LAST 2 DIGITS of the source pad transformer.
- See DCS **59 40 00 10** for conduit/cable burial depths.
- Three (3) ft. minimum clearance required from obstructions such as buildings, street light poles, telephone or cable company pedestals, etc.



EQUIPMENT CONNECTIONS

Secondary Pedestal
Above Grade - Polyethylene

52 11 01 **
600V
2 of 2

ITEM	STK / DCS #	DESCRIPTION	52 11 01 **	01	02	03	04	05	06	07
A	12 05 049	Pedestal - Above Ground, Polyethylene		1	-	1	1	1	1	1
B	12 55 034	Cap, Pedestal Latch, 1.5", Dark Green		2	-	2	2	2	2	2
C	17 64 218	Connector - Ped, 6 Pos., 6-500kcmil, Insulated		3	3	4	-	-	-	3
	17 64 219	Connector - 4 Pos., 1/0-750 kcmil, w/cover		-	-	-	4	-	-	-
	17 64 220	Connector - 6 Pos., 1/0-750 kcmil, w/cover		-	-	-	-	4	-	-
	17 64 238	Connector - Ped, 4 Pos., 6-500 kcmil, Insulated		-	-	-	-	-	3	-
5,@ D	12 51 252	Bend-Plastic, 2", 24" Rad. (Streetlight)		#	-	-	-	-	-	-
	12 51 173	Bend-Plastic, 3", 36" Rad. (Secondary & 400 A Service)		#	-	-	-	-	-	-
	12 51 264	Bend-Plastic, 2 1/2", 24" Rad. (200 A Service)		#	-	-	-	-	-	2
5,@ E	12 01 263	Conduit, PVC, 2 1/2" x 10', Sch 40		-	-	-	-	-	-	2
@ F	49 55 520	Marker, Buried Conduit, Red		-	-	-	-	-	-	2

DESIGN NOTE(s):

- For Missouri residential developments the contractor will install the pedestal, pedestal caps, and bends. See DCS **52 11 01 02**.
- DCS **52 11 01 07** is required in Illinois for residential subdivision developments when the pedestal is placed on the property line. It includes Item D (Stock #12 51 264) and Item E (Stock #12 01 263), for future use.

REV	DATE	ENG	DESCRIPTION
19	01/01/23	JMW	Converted to new format
18	04/05/17	EJB	