

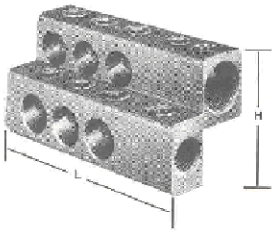
1700

UNDERGROUND SECONDARY

3/14/2023

- ~ UB30-UB60 Basic Units - Underground Secondary
- ~ UE18,UE38 Secondary J-Box 17" x 30" x 18" Deep (Light Duty)
Secondary J-Box 24" x 36" x 18"
- ~ UED6 Secondary Pedestal Assembly
- ~ US-1 UG Secondary Splice
- ~ US6 Padmount Transformer Assembly 1Ø Secondary
- ~ US35-US38 Secondary Connectors 3Ø Padmount Transformer

- N** New Standard
- R** Redrawn Standard
- C** Changed Standard
- ~** No Change



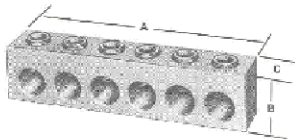
Single Phase Padmount Transformer Terminal

UB30's	Material Descriptions	TDM #	Const. Spec.
Connector PTL 4-250 UG Al/Cu 6 to 4/0		1439	UB30
Connector PTL 4-350 UG Al/Cu 6 to 350		539	UB31
Connector PTL 6-250 UG Al/Cu 6 to 4/0		540	UB32
Connector PTL 6-350 UG Al/Cu 6 to 350		541	UB33
Connector PTL 6-500 UG Al/Cu 2 to 500		542	UB34



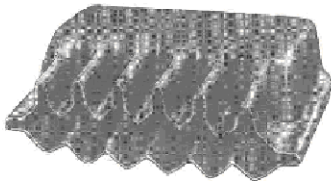
Three Phase Padmount Transformer Terminal

See US35 through US40 for Three Phase Padmount Transformer Terminals



Pedestal and Junction Box Connector

UB50's	Material Descriptions	TDM #	Const. Spec.
Connector PTL 4-250 UG Al/Cu 6 to 4/0		527	UB50
Connector PTL 4-350 UG Al/Cu 6 to 350		528	UB51
Connector PTL 4-500 UG Al/Cu 2 to 500		529	UB52
Connector PTL 6-250 UG Al/Cu 6 to 4/0		530	UB53
Connector PTL 6-350 UG Al/Cu 6 to 350		531	UB54
Connector PTL 6-500 UG Al/Cu 2 to 500		532	UB55
Connector PTL 6-750 UG Al/Cu 350 to 750		533	UB56
Connector PTL 8-500 UG Al/Cu 2 to 500		534	UB57
Connector PTL 8-750 UG Al/Cu 2 to 750		535	UB58



PTL, PET, PED Cover

UB60's	Material Descriptions	TDM #	Const. Spec.
Cover, Connector 4-350 UG		573	UB60
Cover, Connector 6-500 UG		574	UB61
Cover, Connector 8-500 UG		575	UB62
Cover, Connector 8-750 UG		576	UB63



CONSTRUCTION STANDARDS

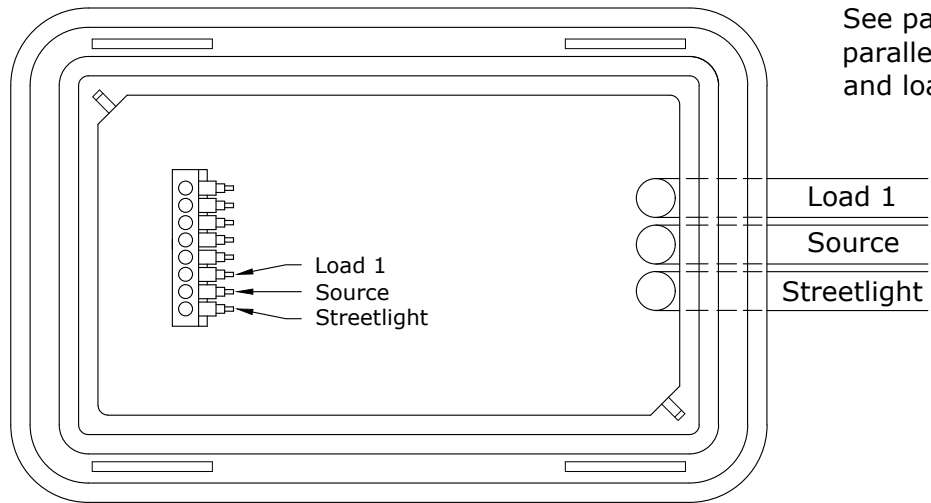
BASIC UNITS UNDERGROUND SECONDARY

PAGE:
1 of 1

UB30, UB40, UB50, UB60

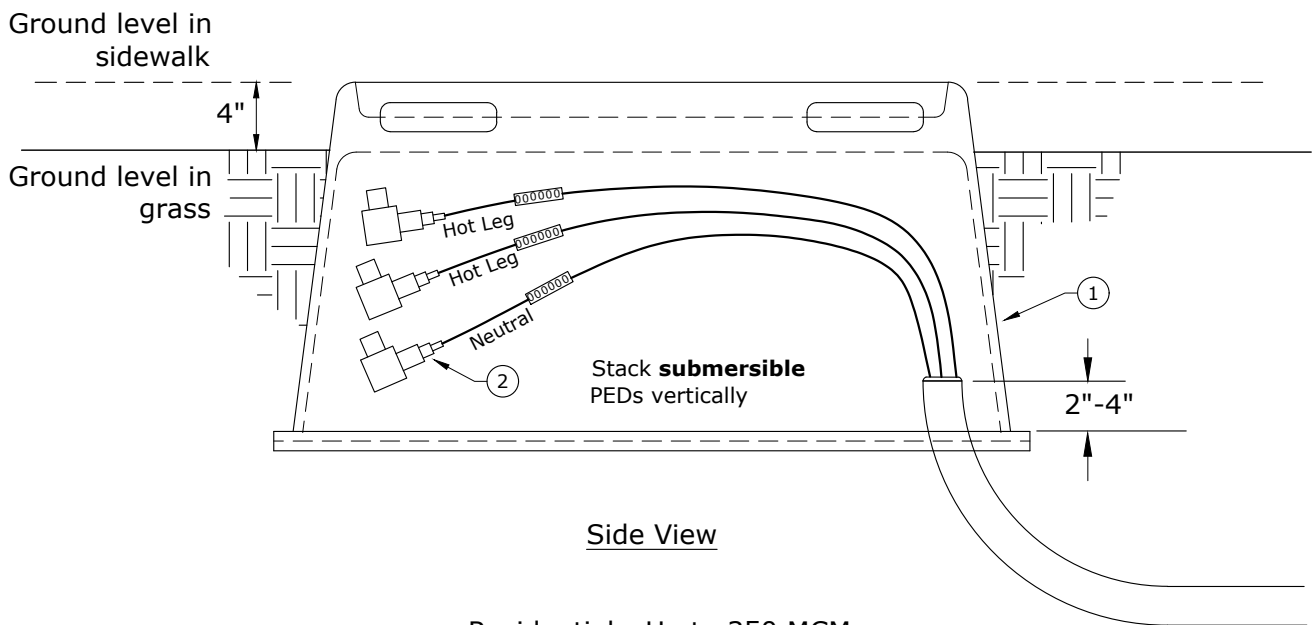
CAD FILE:
UB30

REVISIONS			
DATE	ENGR	OPS	
8/16/02			
3 REDRAWN IN CAD			
APP:	ELM	SECTION	
DATE:	1/22/80	1700	



See page 2 for parallel sources and loads.

Top View



Side View

Residential - Up to 350 MCM
Commercial - Up to 500 MCM

Notes:

1. Do not install S/N 2556 in streets, alleys, or highways.
2. Cut all cables long enough to allow makeup to be done above the box top with cables in an approximately vertical position.
3. Bend cables down after makeup so that lid can be installed.
4. Use silicone grease on all allen wrench plugs and cable boots (both ends).
5. If additional depth is needed, place one box upside down, bolt the 2 boxes together and salvage one lid. (S/N 2556 only).

Rev. 7 - Added drawing for parallel source and loads.




CONSTRUCTION STANDARDS

SECONDARY JUNCTION BOX
17" x 30" x 18" DEEP (LIGHT DUTY)
24" x 36" x 18" DEEP (HEAVY DUTY)

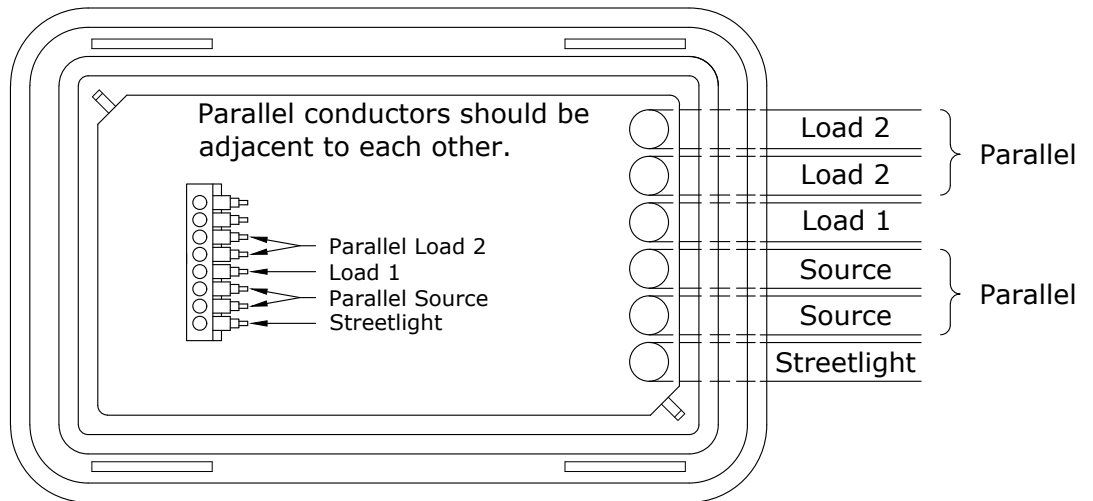
PAGE:
1 of 2

UE18,UE38

CAD FILE:
UE18

REVISIONS			
	DATE	ENGR	OPS
4	10/29/18	KJP	
5	6/24/19	JDK	
6	12/2/19	KJP	
7	12/9/22	CRM	GM
APP: GGW/RWG		SECTION	
DATE: 4/92		1700	

Zip tie ONE tag
around each set of
parallel cables.



Top View
Parallel Source and Loads

Occasional Traffic Areas (S/N 2556):

- Rated 10,000 pounds
- This box is NOT for use in streets, alley or highways. Do NOT use in driveways if location is part of the normal traveled way

Heavier Traffic Areas (S/N 2608):

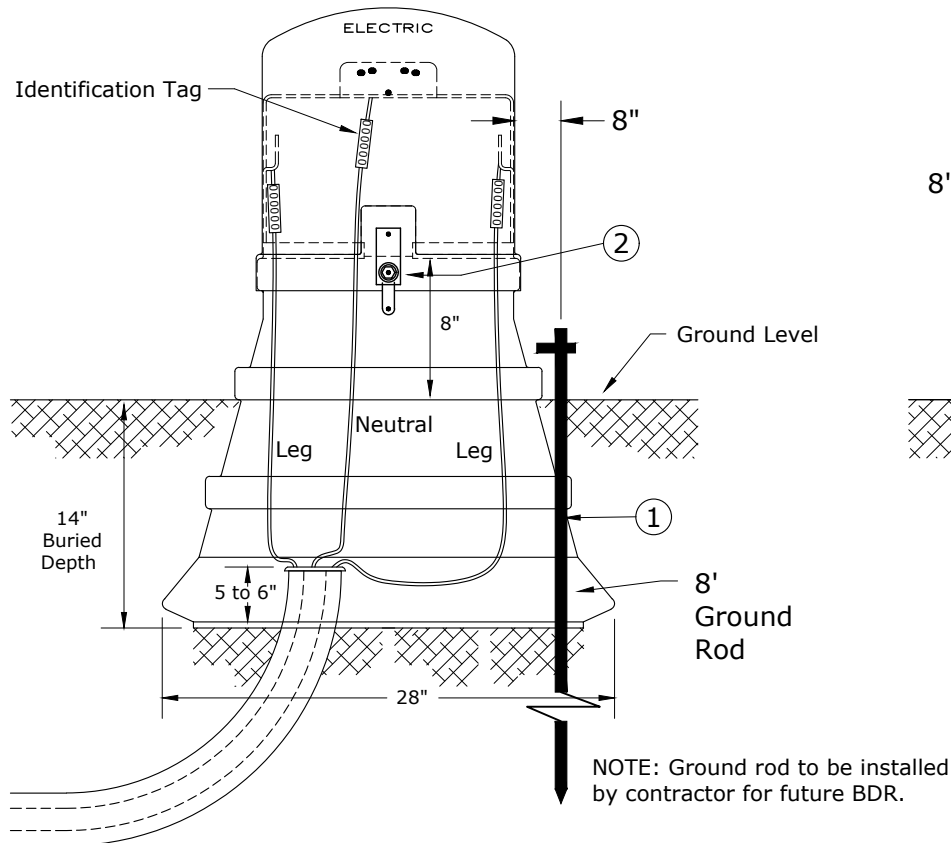
- Rated 20,000 pounds
- This box is 24" x 36" x 18"
- May be used in alleys or driveways-only rated 20k
- Do NOT use in streets or highways

Rev. 7 - Added drawing for parallel source and loads.

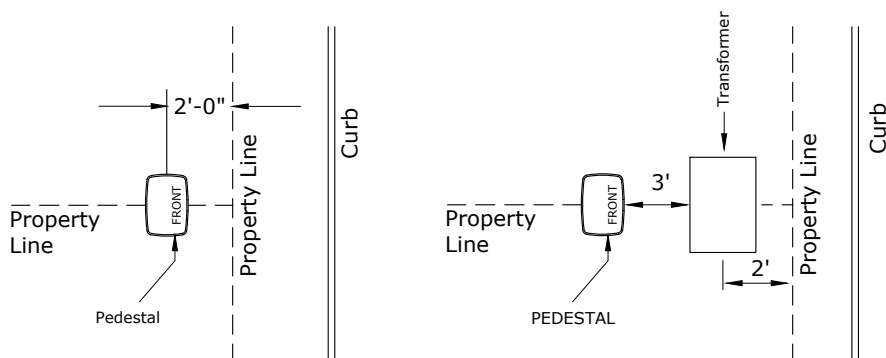
ITEM NO	DESCRIPTION	UE18			
		QTY	S/N		
1	Box, Junction, Secondary, Composite, Light Duty (10k lb) with Cover, 17" x 30" x 18" with Pentabolts	1	2556		
2	Connector, Submersible, Sec., 8 Position, #12 to 500 MCM Al/Cu	3	2264		
ITEM NO	DESCRIPTION	UE18H			
		QTY	S/N		
1	Box, Junction, Secondary, Composite, Heavy Duty (20k lb) with Cover, 24" x 36" x 18" with Pentabolts	1	2608		
2	Connector, Submersible, Sec., 8 Position, #12 to 500 MCM Al/Cu	3	2264		
ITEM NO	DESCRIPTION	UE38			
		QTY	S/N		
1	Box, Junction, Secondary, Composite, Light Duty (10k lb) with Cover, 17" x 30" x 18" with Pentabolts	1	2556		
2	Connector, Submersible, Sec., 8 Position, #12 to 500 MCM Al/Cu	4	2264		
ITEM NO	DESCRIPTION	UE38H			
		QTY	S/N		
1	Box, Junction, Secondary, Composite, Heavy Duty (20k lb) with Cover, 24" x 36" x 18" with Pentabolts	1	2608		
2	Connector, Submersible, Sec., 8 Position, #12 to 500 MCM Al/Cu	4	2264		
<div><div><div>Clark Public Utilities</div><div></div></div><div>CONSTRUCTION STANDARDS</div><div>SECONDARY JUNCTION BOX 17" x 30" x 18" DEEP (LIGHT DUTY) 24" x 36" x 18" DEEP (HEAVY DUTY)</div></div>		REVISIONS			
		<div><div><div>R</div><div></div></div></div>	DATE	ENGR	OPS
		4	10/29/18	KJP	
		5	6/24/19	JDK	
		6	12/2/19	KJP	
		7	12/9/22	CRM	GM
PAGE: 2 of 2		CAD FILE: UE18			
APP: GGW/RWG		SECTION 1700			
DATE: 4/92					

FRONT VIEW

SIDE VIEW

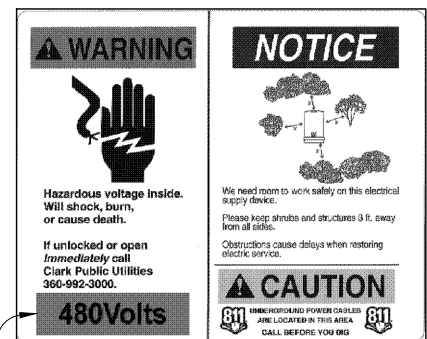


- Notes: 1.) Leave slack in wire to allow for settling.
2.) Recommended torque for connectors: 23-38 ft-lb



LOCATION IN SUBDIVISION

FOR 480V SERVICE



Add S/N 794 "480 VOLTS" Label to "WARNING" label when pedestal is used for 480 V service.

Rev. 3 - Added drawing for parallel source and load.



CONSTRUCTION STANDARDS SECONDARY PEDESTAL ASSEMBLY

PAGE:
1 of 3

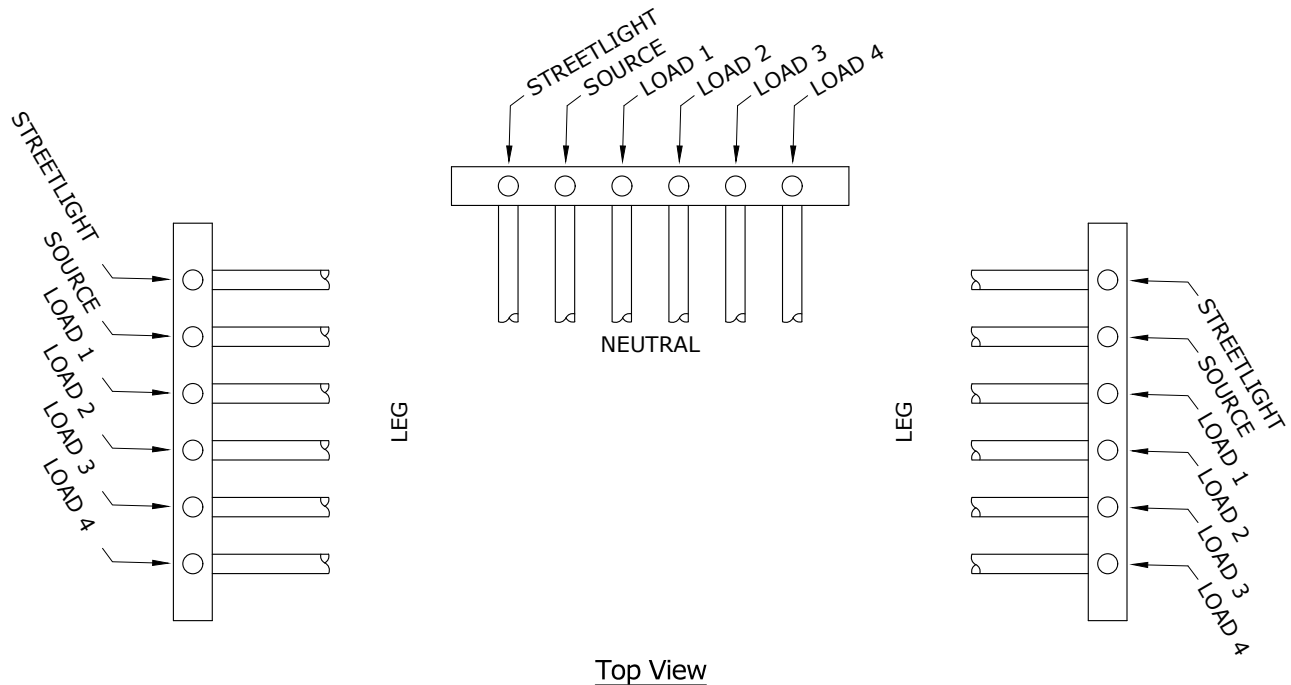
UED6

CAD FILE:
UED6

REVISIONS			
Δ	DATE	ENGR	OPS
	2/23/00	HWH	MA
1	4/26/04	LB	AH
2	3/12/20	KJP	
3	12/9/22	CRM	GM
APP: HWH/ELM SECTION 1700			
DATE: 1980			

DO NOT Cut Zip Ties off Plastic PED Covers
Zip Ties MUST Be Reinstalled

Back of Pedestal




Top View

Recommended torque: 23-38 ft-lb
Do NOT Use Impact Driver/Wrench

- Notes: 1.) Maximum cable size is 350 MCM.
 2.) Minimum cable size is #10.
 3.) Maximum of 6 triplex cables.

Rev. 3 - Added drawing for parallel source and load.

ITEM NO	DESCRIPTION	UED6	
		QTY	S/N
1	Pedestal, Secondary, Above Ground, W/ Connectors and Covers *	1	2562
2	Lock, Equipment *	1	837

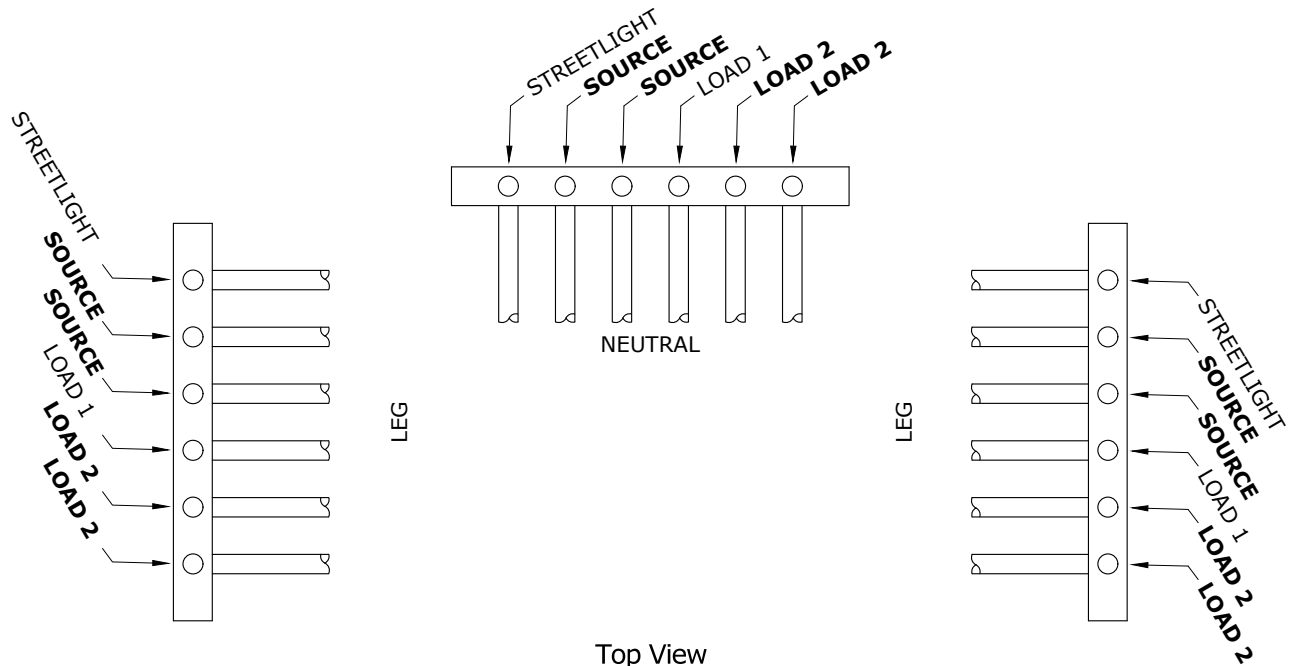
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				Δ	DATE	ENGR	OPS
				0	2/23/00	HWH	MA
				1	4/26/04	LB	AH
				2	3/12/20	KJP	
				3	12/9/22	CRM	GM

PAGE: 2 of 3	UED6		CAD FILE: UED6	APP: HWH/ELM DATE: 1980	SECTION 1700
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DO NOT Cut Zip Ties off Plastic PED Covers
Zip Ties MUST Be Reinstalled

Zip tie ONE tag around each set of parallel cables

Back of Pedestal



Top View



Parallel Source and Loads

Recommended torque: 23-38 ft-lb
Do NOT Use Impact Driver/Wrench

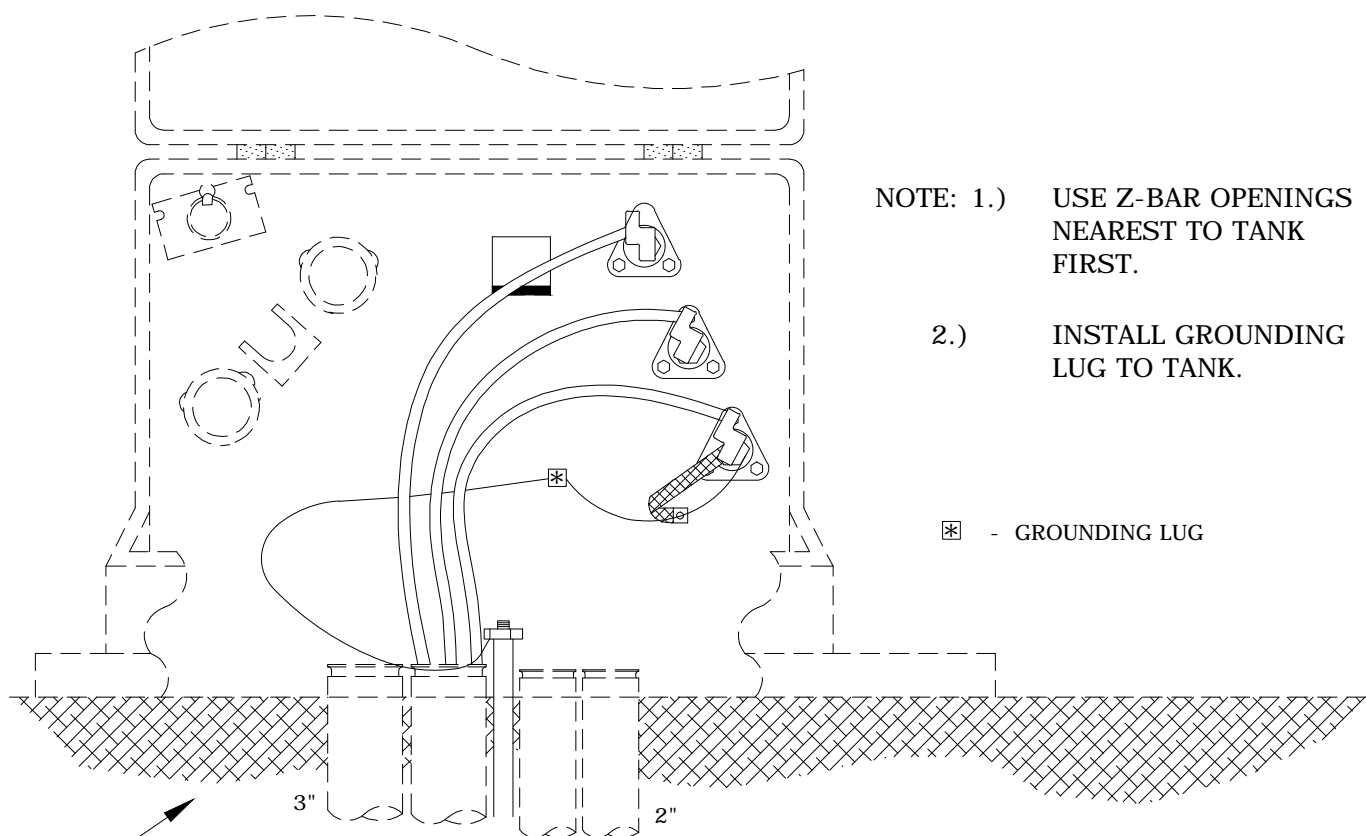
- Notes: 1.) Maximum cable size is 350 MCM.
 2.) Minimum cable size is #10.
 3.) Maximum of 6 triplex cables.

Rev. 3 - Added drawing for parallel source and load.

ITEM NO	DESCRIPTION	UED6	
		QTY	S/N
1	Pedestal, Secondary, Above Ground, W/ Connectors and Covers *	1	2562
2	Lock, Equipment *	1	837

		CONSTRUCTION STANDARDS SECONDARY PEDESTAL ASSEMBLY PARALLEL SOURCE AND LOADS		REVISIONS			
					DATE	ENGR	OPS
				0	2/23/00	HWH	MA
				1	4/26/04	LB	AH
				2	3/12/20	KJP	
				3	12/9/22	CRM	GM

PAGE: 3 of 3	UED6		CAD FILE: UED6	APP: HWH/ELM DATE: 1980	SECTION 1700
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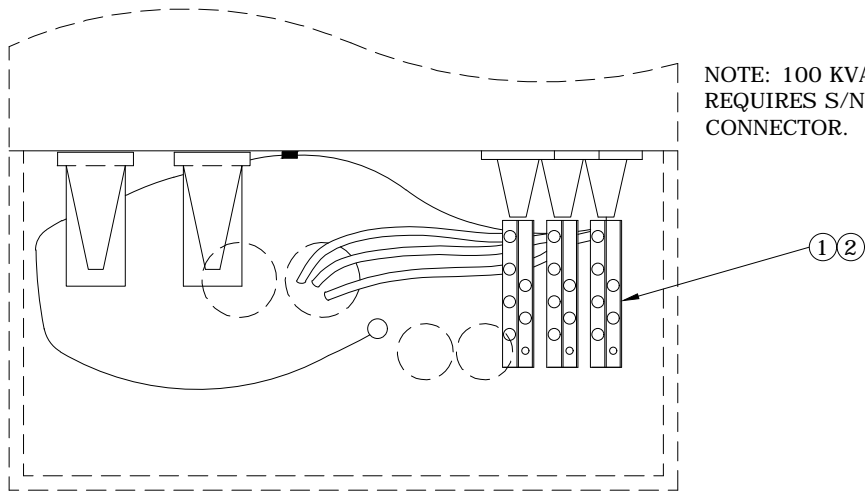


- NOTE: 1.) USE Z-BAR OPENINGS NEAREST TO TANK FIRST.
- 2.) INSTALL GROUNDING LUG TO TANK.

* - GROUNDING LUG

SECONDARY CONDUITS
AS NEEDED
(MAXIMUM 6)

FRONT VIEW OF TRANSFORMER



NOTE: 100 KVA TRANSFORMER
REQUIRES S/N #2318 FOR Z-BAR
CONNECTOR. *

TOP VIEW OF PAD WINDOW
(SHOWING CONDUIT AND CONDUCTOR LOCATION)

REV 1 - ADDED GROUNDING LUG; CHANGED Z-BAR POSITION
REV 2 - UPDATED FOR ALL-CONDUIT SYSTEM AND ADDED "NOTE"
FOR 100KVA Z-BAR CONNECTORS.

ITEM NO.	DESCRIPTION	REVISIONS	
		QTY.	S/N
1	Connector, Z-Bar #2-500KCM + St. Lt.	3	2265
2	Cover, Connector, U.G.	3	2266



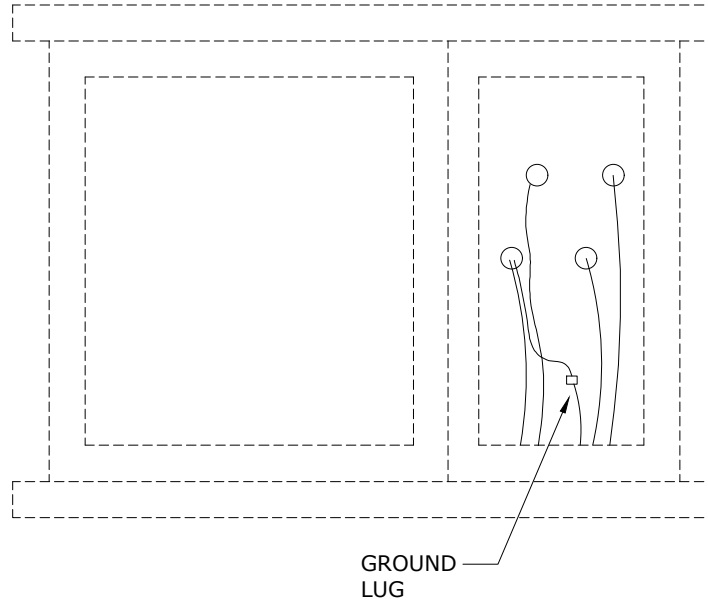
CONSTRUCTION STANDARDS PADMOUNT TRANSFORMER ASSEMBLY SINGLE PHASE SECONDARY

PAGE:
1 of 1

US6

CAD FILE:
US6

REVISIONS			
REV	DATE	ENGR	OPS
1	2/23/00	HWH	MA
2	12/29/04	LB	AH
1 ADDED GROUNDING LUG			
APP: JEH		SECTION	
DATE: 2/22/00		1700	



US35
US36

Notes:

1. This specification covers 3Ø padmounted transformers 75 through 1500 kVA, 120/208 V and 277/480 V.
2. Conductor size range is 1/0 through 750 kcmil.
3. See Std UT30-UT32 - Underground Transformers - Section 1400 for mounting arrangement.

Rev. 2 - Removed US37 & 38 due to secondary bushing leaks and clearance problems in secondary compartment of transformer.

ITEM NO.	DESCRIPTION	US35	
		QTY.	S/N
1	Connector, PET, 6-750 Al/Cu 1/0 to 750	4	2129
2	1/2" Belleville Assembly, SS 2" Bolt and Washers W/ Bronze Nut	4	1389
3	Cover, Connector, 6-750	4	2176
ITEM NO.	DESCRIPTION	US36	
		QTY.	S/N
1	Connector, PET, 6-750 Al/Cu 1/0 to 750	4	2129
2	1/2" Belleville Assembly, SS 2 1/2" Bolt and Washers W/ Bronze Nut	4	2584
3	Cover, Connector, 6-750	4	2176



CONSTRUCTION STANDARDS

SECONDARY CONNECTORS THREE PHASE PADMOUNT TRANSFORMERS

PAGE:
1 of 1

US35-US38

CAD FILE:
US35

REVISIONS			
△	DATE	ENGR	OPS
1	11/12/10	KJP	
2	9/21/21	JDK	
△			
APP:	HWH/MA	SECTION	
DATE:	2/23/00	1700	