1400 UNDERGROUND TRANSFORMERS

5/13/2024

\sim	F1A	Fuse Schedule – Padmount Transformers
\sim	HB16,HB32	Hillside Barrier
~	UID1	Padmounted Equipment Identification Tags & Safety Signs
~	UT2	1Ø Padmount Transformer Radial Feed
\sim	UT4	Open Y - Open Δ Padmount Transformer Installation
С	UT21,UT22	1Ø Padmount Transformer Assemblies, Loop Feed
~	UT24-UT28	1Ø Pad Xfmr Assembly, Radial or Loop w/ Feed-Thru Bushing
~	UT30-UT32	3Ø Padmount Transformer Assemblies
\sim	UTB	1Ø Padmount Transformer Boxpad (Basement)
\sim	UTP1	1Ø Transformer Pad – 25 to 75kVA
\sim	UTP2	1Ø Transformer Pad – 100kVA
\sim	UTP3	1Ø Transformer Pad Orientation & Conduit Installation
\sim	UTP4	3Ø Transformer Pad – 75 to 1500kVA
\sim	UTP5	Precast Pad & Vault for 3Ø Transformers
С	UTP6	3Ø Transformer Pad Orientation & Conduit Installation
~	UTP9	Typical Barrier Installation to Protect Padmounted Equipment

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

			1ø Padmounted T	ransf	ormers		
	Transformer Stock Number		Transformer Primary Protection		Minimum Upstream O Fuse Size ^{*2}		
	BM	BR					
kVA	240/120	480/120	Bayonet Fuse No	S/N	Isolation Link ^{*7}	Size	S/N
25 ^{*1}	1317		4000358C05 (8 A)	653	3001861A02	25 A	683
50	1318	2016	4000358C08 (15 A)	654	3001861A03	30 A	684
75	1320		4000358C10 (25 A)	655	3001861A05	65 A	687
100	1322		4000358C10 (25 A)	655	3001861A05	65 A	687

3ø Padmounted Transformers

		ormer Jumber	Transformer Primary Protection		Minimur Upstream Fuse ^{*2}	ОН	
	BL	BW	Davanat Fusa Na		- + 7		
kVA	208/120	480/277	Bayonet Fuse No	S/N	Isolation Link ^{*7}	Size	S/N
75	1328	1337	4000358C05 (8 A)	653	3001861A02	25 A	683
150	1329	1338	4000358C08 (15 A)	654	3001861A03	30 A	684
300	1331	1340	4000358C10 (25 A)	655	3001861A05	50 A	686
500	1332	1341	4000358C12 (50 A)	656	3001861A06	100 A	689
750	1333	1342	4000358C12 (50 A)	656	3001861A06	100 A	689
1000	1334	1343	4000358C14 (65 A) ^{*3}	657	3001861A07	100 A ^{*4}	689
1500		1344	4000353C17 (140 A)	658	3001861A05	100 A ^{*4*5}	689
					ELSP Fuse ^{*6}		
2000		2164	4038361C05C (125 A)	2976	CBUC08250D100	See Syste	
2500		1345	4038361C05C (125 A)	2976	CBUC08250D100	Engineerii	ng

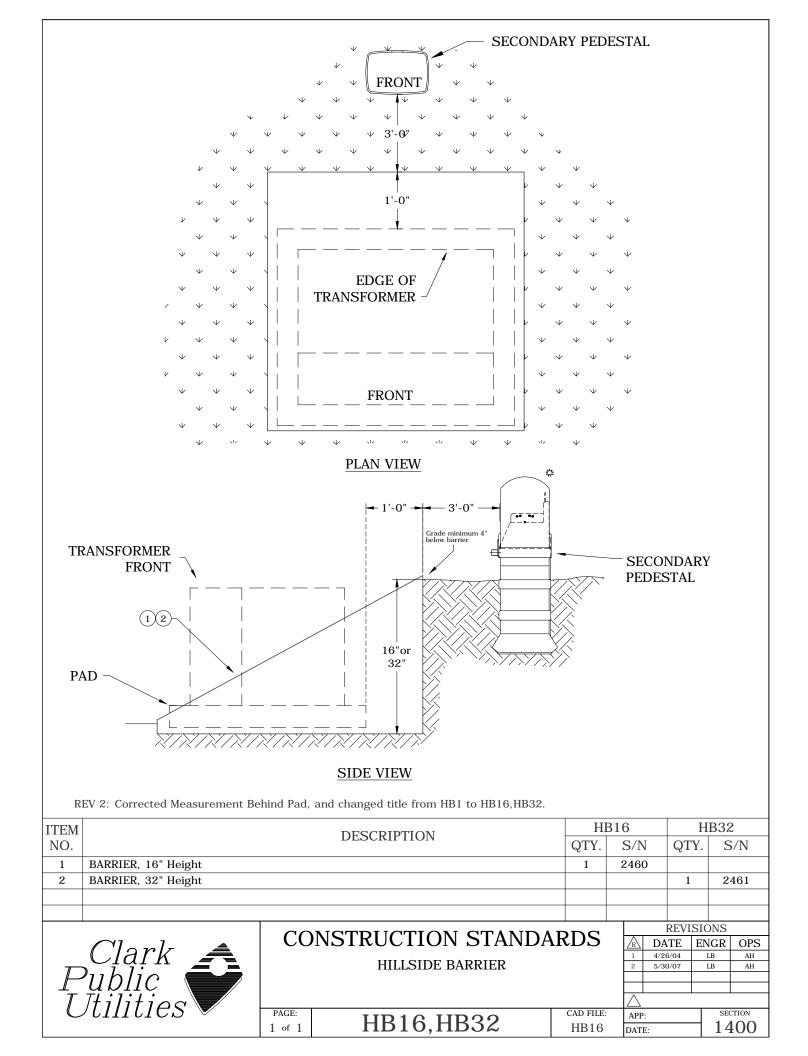
Spare fuses are kept in each transformer. It is the responsibility of the person using the spare fuse to replace it. Fuses are in free issue. Notes:

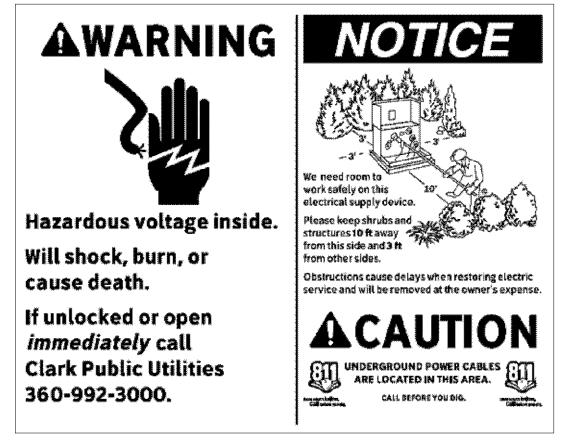
*1 Fuses for 25 kVA livefront transformers are stocked for maintenance only (RTE 476B1, S/N 1664).

- *2 Use largest fuse size for applications while considering up/downstream fuses, conductor, and loading. Check with Systems Engineering as needed.
- *3 Recommended fuse will result in some loss of overload capability.
- *4 Transformer and upstream protection may miscoordinate, therefore each transformer should ideally be on separate feeders/protection.
- *5 Fuse will limit overload capability of transformer.
- *6 The use of these fuses will provide 175% of rated load for 2 hours and 150% of rated load for 7 hours.
- *7 Equivalent Howard isolation link may be substituted for Eaton isolation link. See transformer specifications for P/N.

Rev. 4 - Added note 7 to allow Howard isolation links.

	<u> </u>	NSTRUCTION STANDA			REVI	SIONS	
Clark A		INSTRUCTION STANDA	ARDS	\mathbb{A}	DATE	ENGR	OPS
				1	3/02	DRAWN	IN CAD
		FUSE SCHEDULE		2	2/11/10	KJP	
		PADMOUNT TRANSFORMERS		3	7/10/20	KJP	
				4	11/30/21	JDK	
T Itilition							
	PAGE:		CAD FILE:	APP	: ELM	SEC	CTION
	1 of 1	F1A	F1A	DAT	E: 1/31/80	14	-00





Label for outside of padmounted equipment S/N 2568

		A DANGER						
		Hazardous voltage. Will shock, burn,						
		or cause death. KEEP OUT!						
		If open or unlocked Immediately call Clark Public Utilities 360-992-3000.						
		inside of padmounted equipment S/N	N 2569					
Rev. 2 - Updated warning and danger s	signs.							
	CO	NSTRUCTION STAI	NDA	RDS			SIONS	0.0.0
Clark 🛋		PADMOUNTED EQUIPME			R	DATE 6/13/02	ENGR	OPS
Clark Public Utilities		IDENTIFICATION TAGS A SAFETY SIGNS			1 2	6/23/04 8/3/18	LB KJP	AH
	PAGE:			CAD FILE:	APP:	ELM	SEC	CTION

UID1

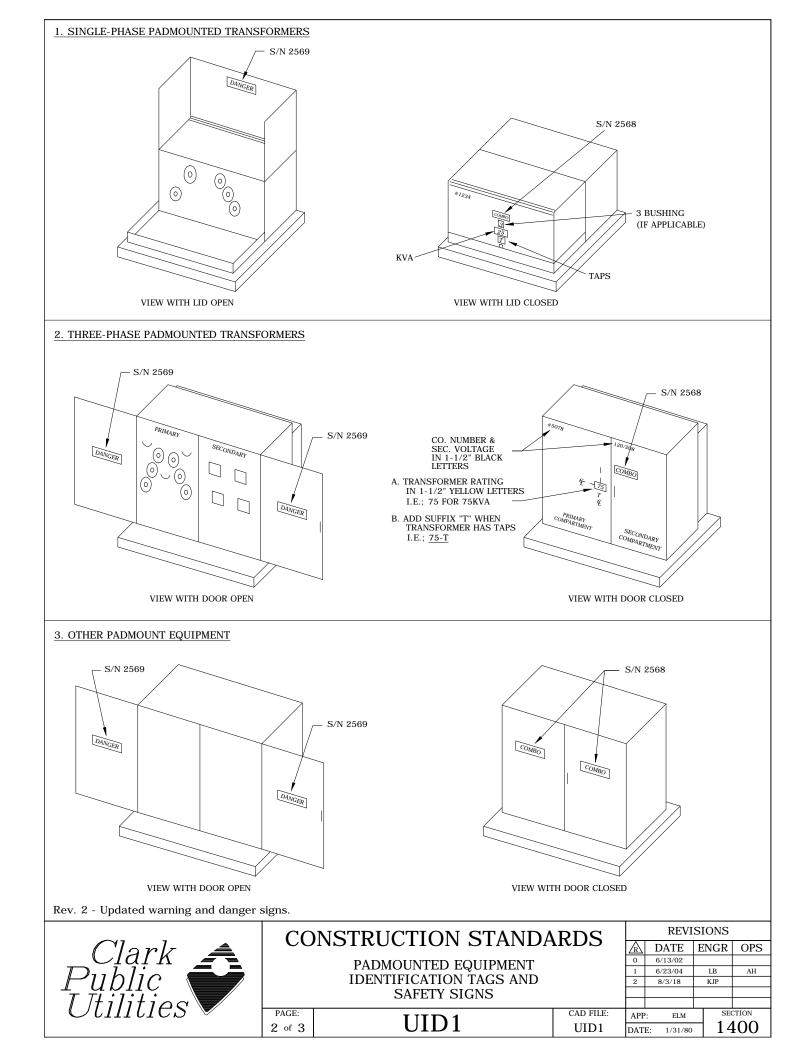
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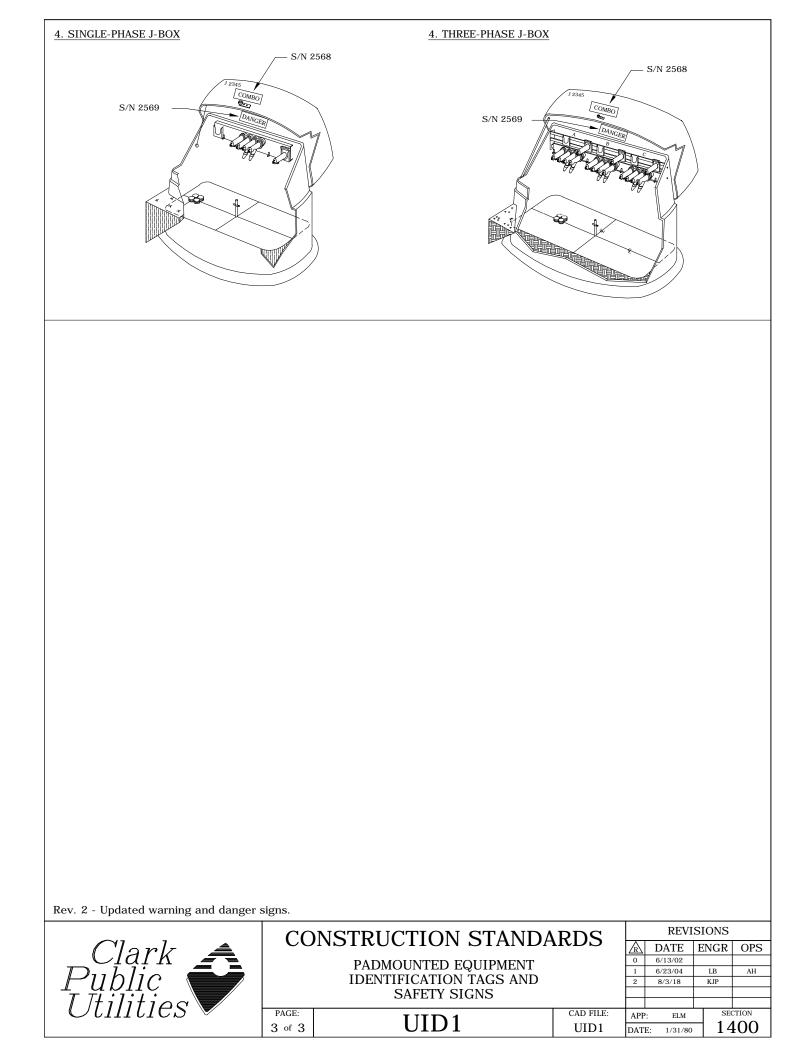
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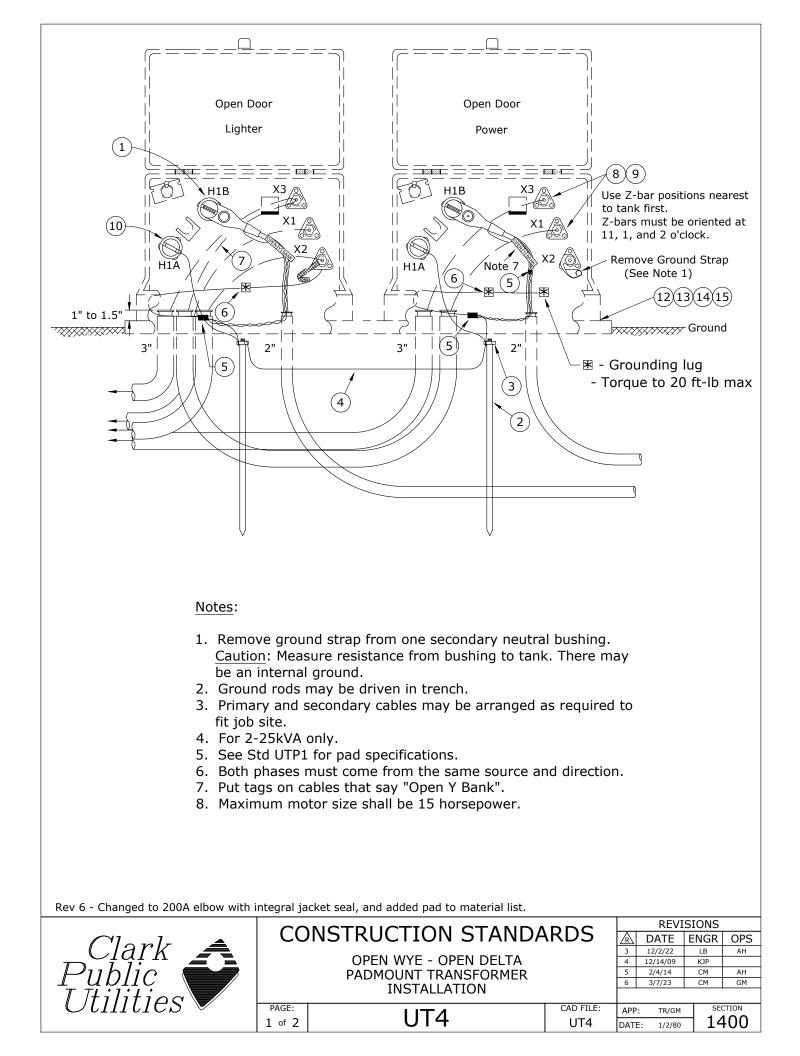
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1400

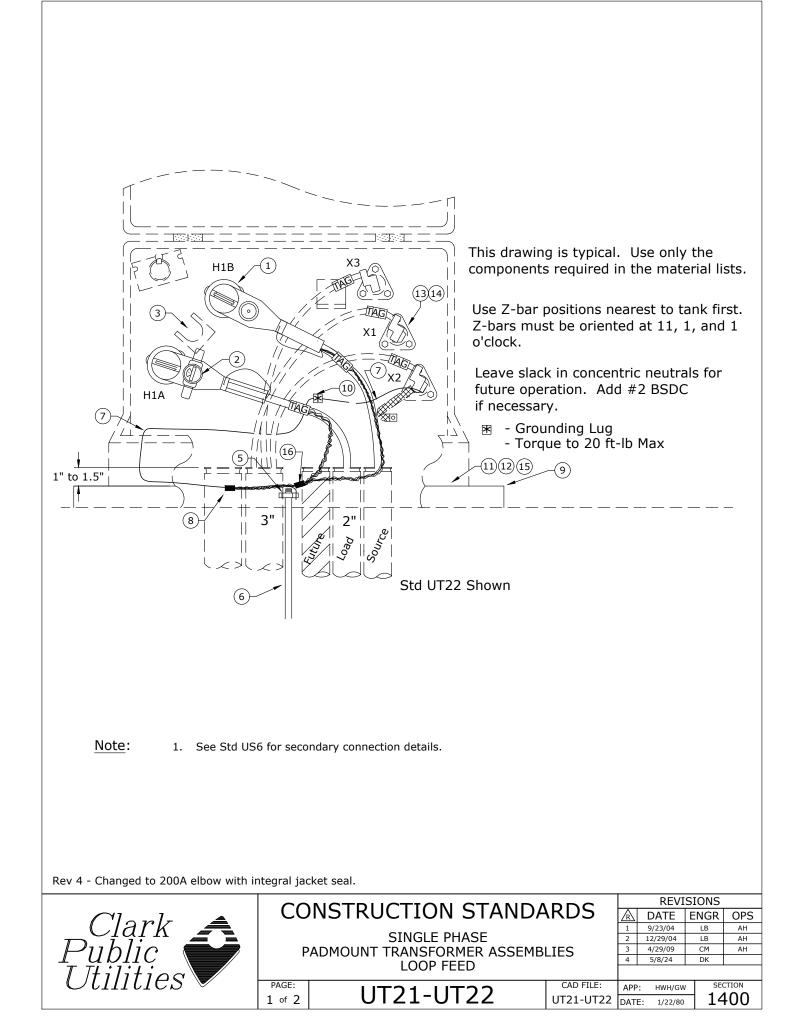




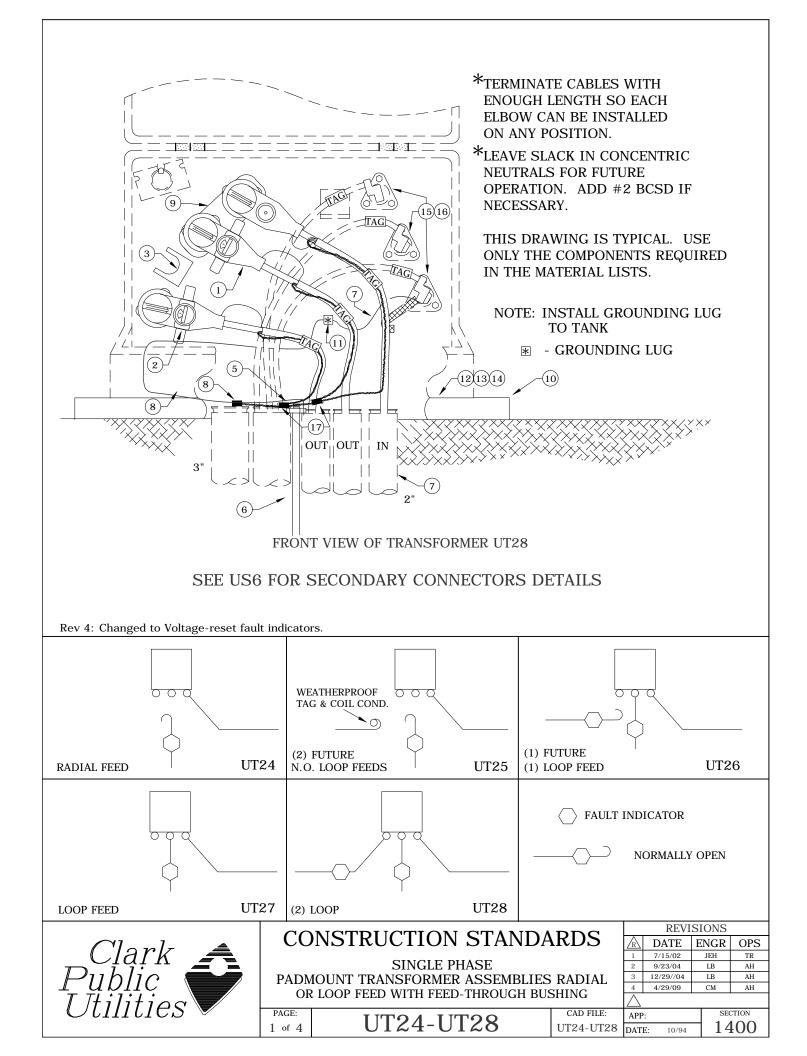
	. 1			
	NEUTRALS OPERATIC NECESSAR THIS DRA ONLY THE IN THE MA NOTE: IN TO T 9 (1) 8 9 (1) 8	ACK IN CONCE FOR FUTURE N. ADD #2 BO RY. WING IS TYPI COMPONENTS ATERIAL LISTS USTALL GROUN CANK GROUNDING 7) 4" ABOVE CU OR FINAL GR	CSD IF CAL. USE S REQUIR S. NDING LU LUG — — — —	
RADIAL FEI	ED UT2			
	ONDARY CONNECTIONS I MATERIAL LIST	JETAILS		
ITEM DES	CRIPTION		QTY.	S/N
1 Elbow, Loadbreak, 1/0, 200A, 175 mil			1	1312
2 Cap, Protective Insulated, 200A			1	265
3 Clamp, Ground Rod 5/8", Small			1	281
4 Rod, Ground 5/8" x 8'			1	1124
5 Conductor, Wire BSDC #4 SLD 6 Connector Crimpet #4 to #2			6	376
6Connector, Crimpet, #4 to #27Pad, Transformer 42" x 42"			1	454 929
8 Ground Lug			1	929 842
9 Bolt, Machine, 1/2" x 1-1/2" SS			2	131\$
10 Elbow, Sealing Kit, 1/0, 175 & 220 mil			1	2391 🌣
11 Washer, 2" x 3" x 3/16" w/ 9/16" Slotted Hole			2	1415
12 Connector, z-bar #2-500 MCM + Streetlight			3	2265
13 Cover, Connector U.G.			3	2266
Rev. 4 - Corrected material issue.	STRUCTION STANDA	ARDS	2/23/00 H	DNS NGR OPS IWH MA LB AH
Clark Public Utilities	PADMOUNT TRANSFORMER RADIAL FEED		12/29/04 11/11/16	LB AH KJP
PAGE: 1 of 1	UT2	CAD FILE: API UT2 DAT		$\overset{\text{section}}{1400}$



	Bay-O-Net Fuse- Bay-O-Net Fuse- 		
	H _{1A} H _{1B} X3 X1 X2 H _{1A} H _{1B} X3 X1 X2 Remove Ground Strap (See Note 1) Wiring Diagram		
	1234 Image: Company of the second	(11)	777
Rev 6	- Changed to 200A elbow with integral jacket seal, and added pad to material list.	1	
ITEM NO.	DESCRIPTION	QTY.	UT4 S/N
1	Elbow, 200A, Loadbreak, 1/0, 200A, 175 & 200 mil, Test Point, 15 kV, w/ Jacket Seal	2	1312 🌣
2	Rod, Ground, 5/8" x 8'	2	1124
3	Clamp, Ground Rod 5/8", Bronze, Small	2	281
4	Conductor, Cu, #4 Solid, Bare, Soft-Drawn, 1C	30	376
5	Connector, Crimpet, Cu, Run #2 Sol/Str, Tap #8 Sol - #4 Str (2C4)	2	454
6 7	Lug, Grounding, #8 Sol-2/0 Str, 4-way Cable, UG, 600v, AI, 4/0, USE, 1C	3 13	842 353
8	Connector, Z-Bar, 5/8" Stud, Al/Cu, 6-position, #2 - 500 MCM + Streetlight	5	2265
9	Cover, Connector, Z-Bar, 6-position	5	2266
10	Cap, Protective Insulated, 200A, 15 kV	2	265
11	Label, "Open Bank"	2	2781
12	Pad, Transformer 42" x 42", 1Ø, 25-75 kVA	2	929 🌣
13	Bolt, Machine, 1/2" x 1-1/2" SS	4	131*
14 15	Washer, 2" x 3" x 3/16" w/ 9/16" Slotted Hole Nut, Spring Loaded, Galv, 1/2" (Unistrut)	4	1415*
P	Clark Ublic Trilities CONSTRUCTION STANDARDS OPEN WYE - OPEN DELTA PADMOUNT TRANSFORMER INSTALLATION	29/04 I 14/09 k 4/14 0	IGR OPS B AH CDP CM AH CM GM
	PAGE: Q of 2 UT4 CAD FILE: APP: UT4 DATE:	TR/GM 9/94	section 1400



	UT21 UT22		
	✓ FAULT INDICATOR		
	- Changed to 200A elbow with integral jacket seal.		T21
ITEM NO.	DESCRIPTION	QTY.	S/N
1	Elbow, 200A, Loadbreak, 1/0, 175 & 220 mil, Test Point, 15kV, w/ Jacket Seal	2	1312 🌣
2	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø	1	2694
3	Bushing, Standoff Insulated 200A	1	252
4	Cap, Protective Insulated, 200A, 15kV Clamp, Ground Rod, 5/8", Bronze, Small	1	265 281
6	Rod, Ground, 5/8" x 8'	1	1124
7	Conductor, Cu, #4 Solid, Bare, Soft-Drawn, 1C	12	376
8	Connector, Crimpet, Cu, Run #2 Sol/Str, Tap #8 Sol - #4 Str (2C4)	1	454
9	Pad, Transformer 42" x 42", 1Ø, 25-75 kVA	1	929
10	Lug, Grounding, #8 Sol - 2/0 Str, 4-way	1	842
11 12	Bolt, Machine, 1/2" x 1-1/2" SS Washer, 2" x 3" x 3/16" w/ 9/16" Slotted Hole	2	131 🌣
12	Connector, Z-Bar, 5/8" Stud, Al/Cu, 6-position, #2-500 MCM + Streetlight	2	1415 2265
14	Cover, Connector, Z-Bar, 6-position	3	2265
15	Nut, Spring Loaded, Galv, 1/2" (Unistrut)	2	920 🌣
ITEM	DESCRIPTION	U	T22
NO.	DESCRIPTION	QTY.	S/N
1	Elbow, 200A, Loadbreak, 1/0, 175 & 220 mil, Test Point, 15 kV, w/ Jacket Seal	2	1312 🌣
2	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø	1	2694
5	Clamp, Ground Rod, 5/8", Bronze, Small	1	281
6 7	Rod, Ground 5/8" x 8' Conductor, Cu, #4 Solid, Bare, Soft-Drawn, 1C	1	1124 376
8	Connector, Crimpet, Cu, Run#2 Sol/Str, Tap #8 Sol - #4 Str (2C4)	12	454
9	Pad, Transformer, 42" x 42", 1Ø, 25-75 kVA	1	929
10	Lug, Grounding, #8 Sol - 2/0 Str, 4-way	1	842
11	Bolt, Machine, 1/2" x 1-1/2" SS	2	131 🌣
12	Washer, 2" x 3" x 3/16" w/ 9/16" Slotted Hole	2	1415
13	Connector, Z-Bar, 5/8" Stud, Al/Cu, 6-position, #2-500 MCM + Streetlight	3	2265
14 15	Cover, Connector, Z-Bar, 6-position Nut, Spring Loaded, Galv, 1/2" (Unistrut)	3	2266 920 🌣
15	Connector, Crimpet, Cu, Run and Tap #2 Sol/Str (2C2)	1	920 ∿ 455
		REVISIO	
			NGR OPS
	SINGLE PHASE	/29/04	LB AH LB AH
			CM AH DK
[CECTION:
		HWH/GW 1/22/80	section 1400



Rev 4: Changed to Voltage-reset fault indicators.	
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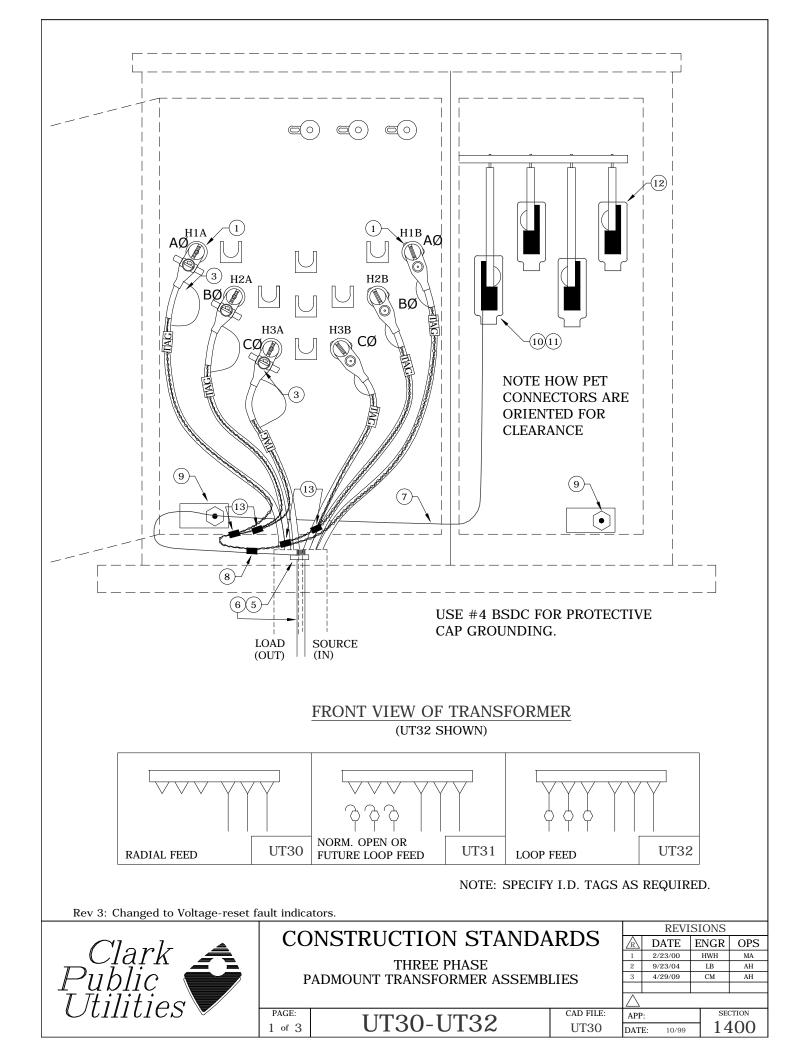
TTEM		Iľ	Г24
ITEM NO.	DESCRIPTION	QTY.	S/N
1	Elbow, Loadbreak. 1/0, 200A, 175 mil	2	1312
2	Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG	2 1	2694 🌣
23	Bushing, Standoff Insulated 200A	1	252
4	Cap, Protective Insulated 200A	2	265
5	Clamp, Ground Rod 5/8", Small	2 1	281
6	Rod, Ground 5/8" x 8'	1	1124
7	Conductor, Wire BSDC #4 SLD	6	376
8	Connector, Crimpet, #4 to #2 (2C4)	1	454
9	Insert, Feed-Through	1	237
10	Pad, Transformer 42" x 42"	1	929
10	Ground Lug	1	842
	Bolt, Unistrut, Padmount Tie Down	1 2	193
12			
13	Nut, Spring-loaded, Galv, 1/2", Unistrut	2	920
14	Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole	2	1415
15	Connector, Z-Bar #6-500 MCM + St. Lt	3	2265
16	Cover, Connector U.G.	3	2266
17	Connector, Crimpet, #2 to #2 (2C2)	1	455
ITEM	DESCRIPTION	U	Г25
NO.	DESCRIPTION	QTY.	S/N
1	Elbow, Loadbreak. 1/0, 200A, 175 mil	2	1312
2	Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG	~ 1	2694 \$
~ 3	Bushing, Standoff Insulated 200A	1	252
4	Cap, Protective Insulated 200A	2	265
5	Clamp, Ground Rod 5/8", Small	2 1	281
6	Rod, Ground 5/8" x 8'	1	1124
7	Conductor, Wire BSDC #4 SLD	6	376
8	Connector, Crimpet, #4 to #2 (2C4)	0	454
	Insert, Feed-Through	1	237
9	Pad, Transformer 42" x 42"		929
10	· · · · · · · · · · · · · · · · · · ·	1	
11	Ground Lug	1	842
12	Bolt, Unistrut, Padmount Tie Down	2	193
13	Nut, Spring-loaded, Galv, 1/2", Unistrut	2	920
14	Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole	2	1415
15	Connector, Z-Bar #6-500 MCM + St. Lt	3	2265
16	Cover, Connector U.G.	3	2266
17	Connector, Crimpet, #2 to #2 (2C2)	1	455
7	Clark $(Construction standards)$	5/02 JI 3/04 I	GR OPS EH TR B AH
\square	UDIIC PADMOUNT TRANSFORMER ASSEMBLIES RADIAL Trilition OR LOOP FEED WITH FEED-THROUGH BUSHING		B AH M AH
Ľ			SECTION
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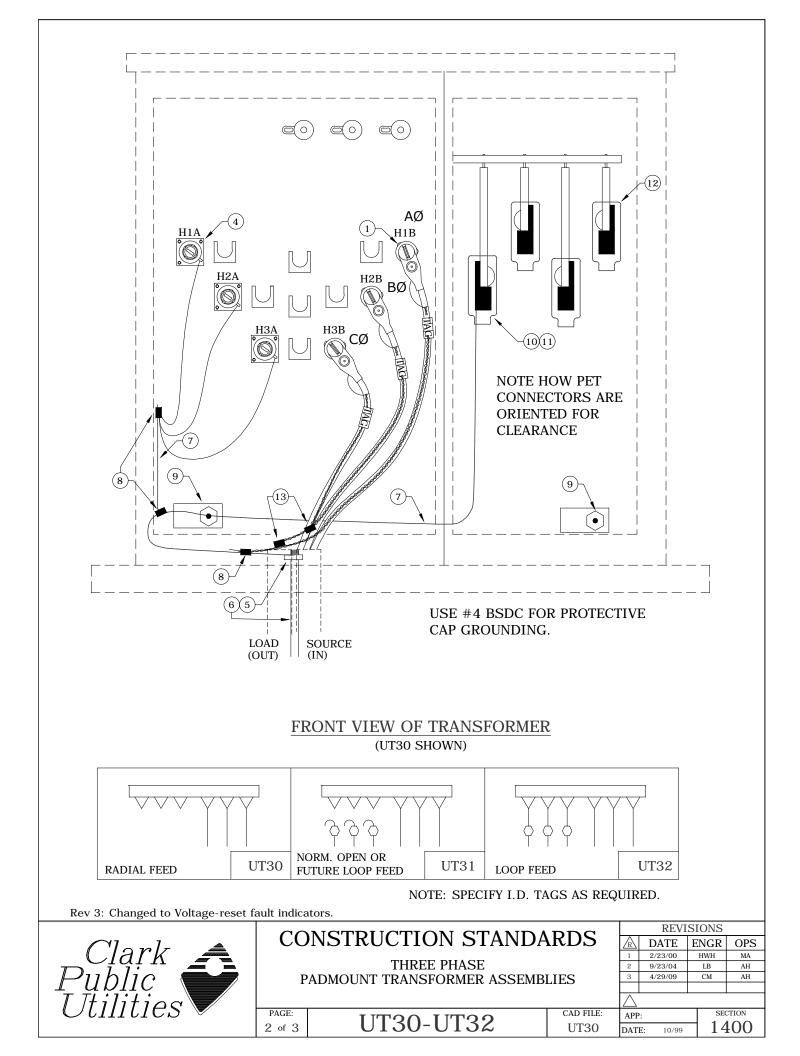
Rev 4: Changed to Voltage-reset fault indicators.	
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ITEM		U	Г26
NO.	DESCRIPTION	QTY.	S/N
1	Elbow, Loadbreak, 1/0, 200A, 175 mil	3	1312
2	Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG	2	2694 🌣
3	Bushing, Standoff Insulated 200A	1	252
4	Cap, Protective Insulated 200A	1	265
5	Clamp, Ground Rod 5/8", Small	1	281
6	Rod, Ground 5/8" x 8'	1	1124
7	Conductor, Wire BSDC #4 SLD	6	376
8	Connector, Crimpet, #4 to #2 (2C4)	1	454
9	Insert, Feed-Through	1	237
10	Pad, Transformer 42" x 42"	1	929
11	Ground Lug	1	842
12	Bolt, Unistrut, Padmount Tie Down	2	193
13	Nut, Spring-loaded, Galv, 1/2", Unistrut	2	920
14	Washer, $2" \times 3" \times 3/16" \text{ w/ } 9/16"$ slotted hole	2	1415
15	Connector, Z-Bar #6-500 MCM + St. Lt	3	2265
16	Cover, Connector U.G.	3	2266
17	Connector, Crimpet, #2 to #2 (2C2)	2	455
17		~	455
		T	TO 7
ITEM	DESCRIPTION		Γ27
NO.		QTY.	S/N
1	Elbow, Loadbreak, 1/0, 200A, 175 mil	2	1312
2	Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG	1	2694 🌣
3	Bushing, Standoff Insulated 200A	1	252
4	Cap, Protective Insulated 200A	1	265
5	Clamp, Ground Rod 5/8", Small	1	281
6	Rod, Ground 5/8" x 8'	1	1124
7	Conductor, Wire BSDC #4 SLD	6	376
8	Connector, Crimpet, #4 to #2 (2C4)	1	454
9	Insert, Feed-Through	1	237
10	Pad, Transformer 42" x 42"	1	929
11	Ground Lug	1	842
12	Bolt, Unistrut, Padmount Tie Down	2	193
13	Nut, Spring-loaded, Galv, 1/2", Unistrut	2	920
14	Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole	2	1415
15	Connector, Z-Bar #6-500 MCM + St. Lt	3	2265
16	Cover, Connector U.G.	3	2266
17	Connector, Crimpet, #2 to #2 (2C2)	1	455
F	Clark Single Phase Public Padmount TRANSFORMER ASSEMBLIES RADIAL	5/02 JE 3/04 L 29/04 L	GR OPS

ITEM	DESCRIPTION					
NO.						
1	Elbow, Loadbreak, 1/0, 200A, 175 mil	3	1312			
2	Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG	2	2694 🌣			
3	Bushing, Standoff Insulated 200A	1	252			
4	Cap, Protective Insulated 200A	-	265			
5	Clamp, Ground Rod 5/8", Small	1	281			
6	Rod, Ground 5/8" x 8'	1	1124			
7	Conductor, Wire BSDC #4 SLD	6	376			
8	Connector, Crimpet, #4 to #2 (2C4)	1	454			
9	Insert, Feed-Through	1	237			
10	Pad, Transformer 42" x 42"	1	929			
11	Ground Lug	1	842			
12	Bolt, Unistrut, Padmount Tie Down	2	193			
13	Nut, Spring-loaded, Galv, 1/2", Unistrut					
14	Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole	2	1415			
15	Connector, Z-Bar #6-500 MCM + St. Lt	3	2265			
16	Cover, Connector U.G.	3	2266			
17	Connector, Crimpet, #2 to #2 (2C2)	2	455			
	REVISIO					
		IGR OPS				
	$\begin{array}{c c} & 1 & 7/2 \\ \hline & 2 & 9/2 \\ \hline & 2 & 9/2 \\ \hline \end{array}$		EH TR LB AH			
	PADMOUNT TRANSFORMER ASSEMBLIES RADIAL $\frac{3}{4}$		LB AH			
	Clark Ublic Itilities	29/09	CM AH			
			SECTION			
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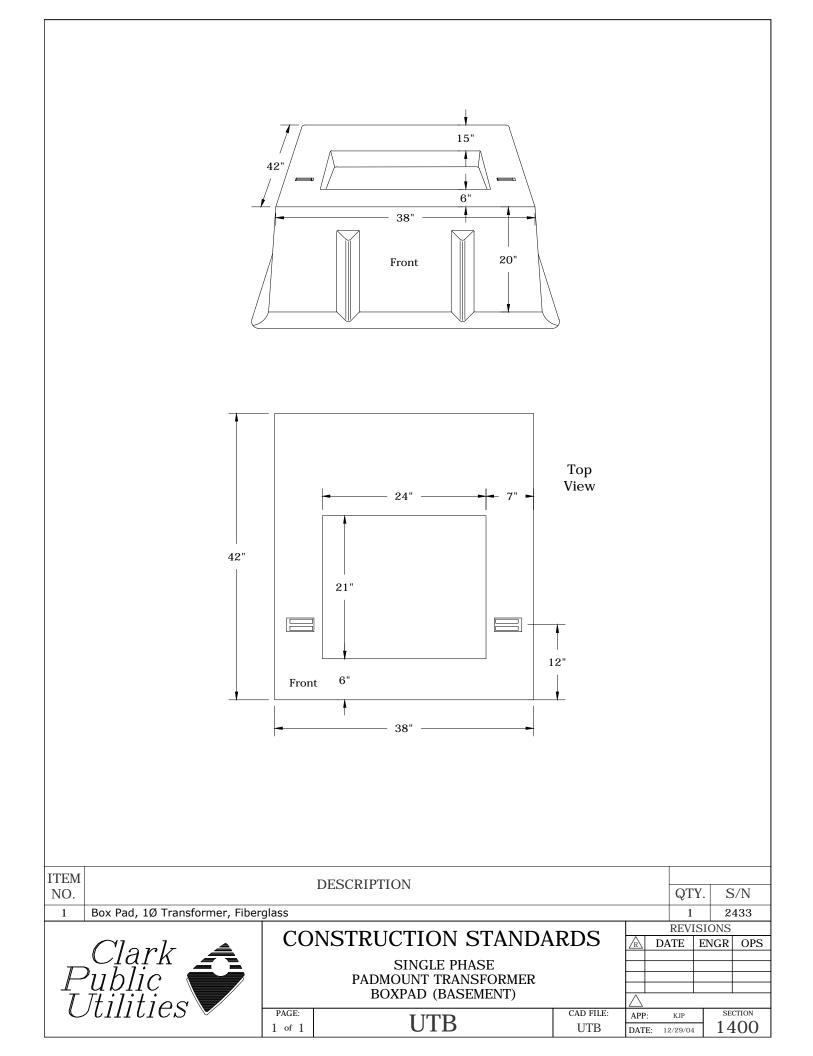
Rev 4: Changed to Voltage-reset fault indicators.

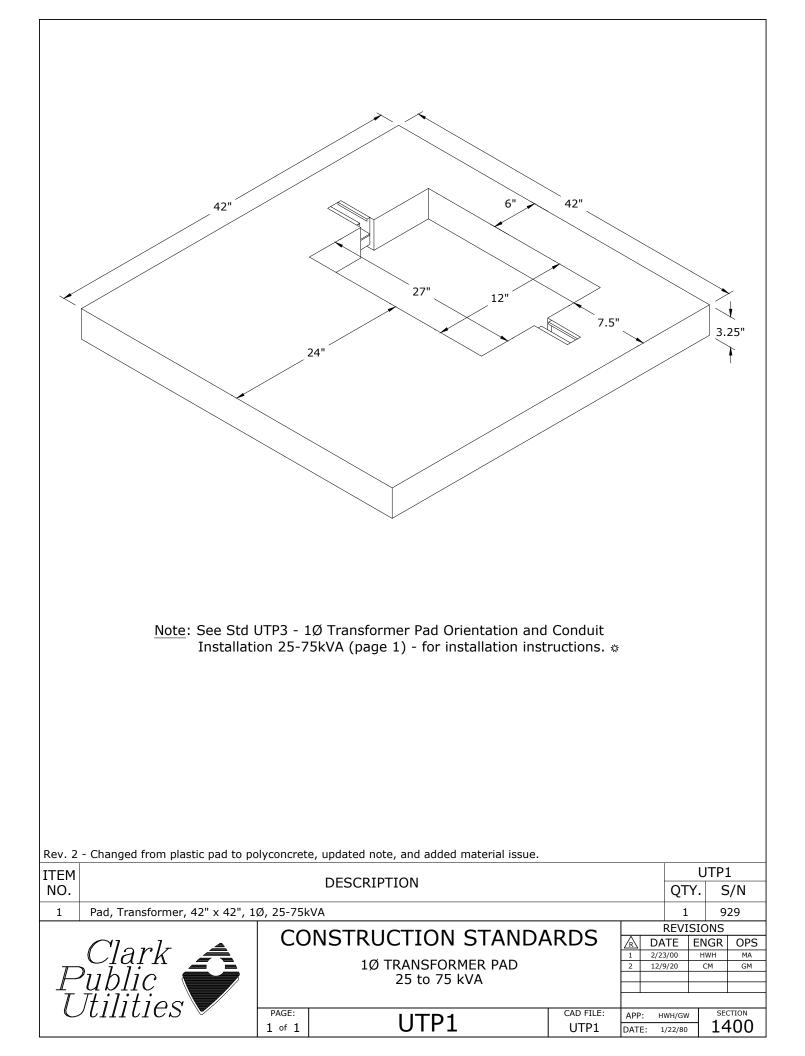


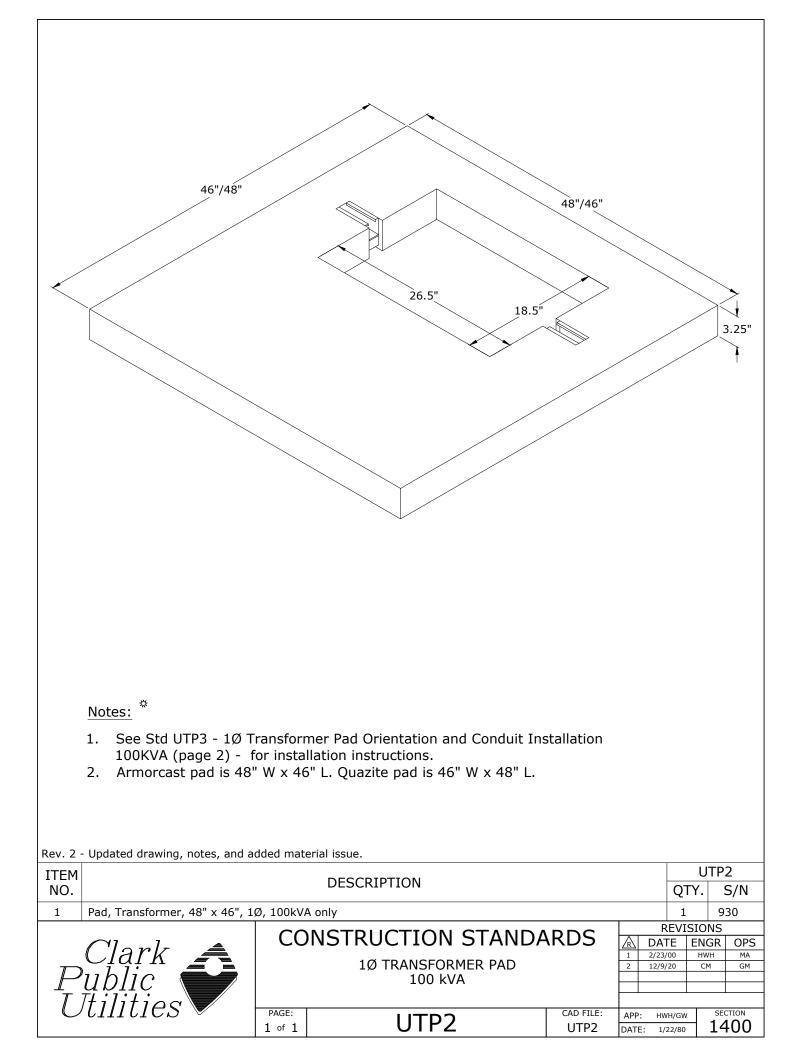


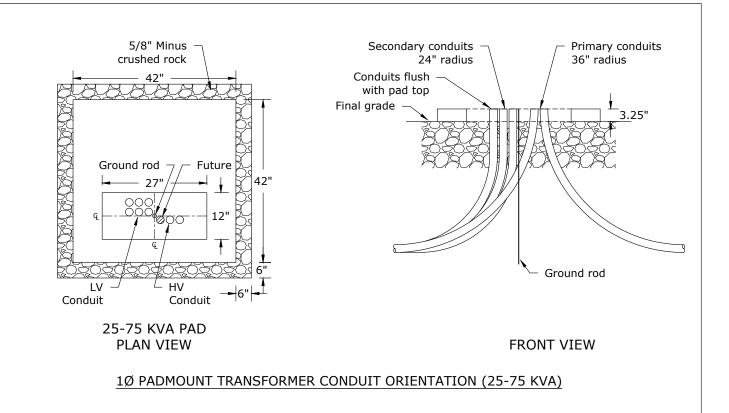
Rev 3: Changed to Voltage-reset fault indicators.

ITEM	FM						
NO.	DESCRIPTION						
1	Elbow, Loadbreak, 1/0, 200A, 175 mil	3	1312				
4	Cap, Protective Insulated 200A	3	265				
5	Clamp, Ground Rod 5/8", Small	1	281				
6	Rod, Ground 5/8" x 8'	1	1124				
7	Conductor, Wire BSDC #4 SLD	10	376				
8	Connector, Crimpet, #4 to #2 (2C4)	1	454				
9	Ground Lug	2	842				
10	Connector, PET, #2-750 Al/Cu, 6 Position	4	2129				
11	Bolt, Machine, 1/2 x 2" SS w/ Bronze Nut & Belleville Washer	16	1389				
12	Cover, PET, 8 Position	4	2182				
13	Connector, Crimpet, #2 to #2 (2C2)	2	455				
ITEM		U	T31				
NO.	DESCRIPTION	QTY.	S/N				
1	Elbow, Loadbreak, 1/0, 200A, 175 mil	6	1312				
2	Bushing, Standoff Insulated 200A	3	252				
3	Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG	3	2694 🌣				
4	Cap, Protective Insulated, 200A	3	265				
5	Clamp, Ground Rod 5/8", Small	1	281				
6	Rod, Ground 5/8" x 8'	1	1124				
7	Conductor, Wire BSDC #4 SLD	10	376				
8	Connector, Crimpet, #4 to #2 (2C4)	1	454				
9	Ground Lug	2	842				
10	Connector, PET, #2-750 Al/Cu, 6 Position						
11	Bolt, Machine, 1/2 x 2" SS w/ Bronze Nut & Belleville Washer						
12	Cover, PET, 8 Position	16 4	1389 2182				
13	Connector, Crimpet, #2 to #2 (2C2)	4	455				
ITEM		- II	T32				
NO.	DESCRIPTION	QTY.	S/N				
1	Elbow, Loadbreak, 1/0, 200A, 175 mil	6	1312				
3	Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG	3	2694 🌣				
5	Clamp, Ground Rod 5/8", Small	1	281				
6	Rod, Ground 5/8" x 8'	1	1124				
7	Conductor, Wire BSDC #4 SLD	10	376				
8	Connector, Crimpet, #4 to #2 (2C4)	10	454				
9	Ground Lug	2	842				
10	Connector, PET, #2-750 Al/Cu, 6 Position	~ 4	2129				
11	Bolt, Machine, 1/2 x 2" SS w/ Bronze Nut & Belleville Washer	16	1389				
12							
13	Connector, Crimpet, #2 to #2 (2C2)	4	2182 455				
10		REVISIO					
		.B AH CM AH					
	PADMOUNT TRANSFORMER ASSEMBLIES						
			SECTION				
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		10/99	1100				







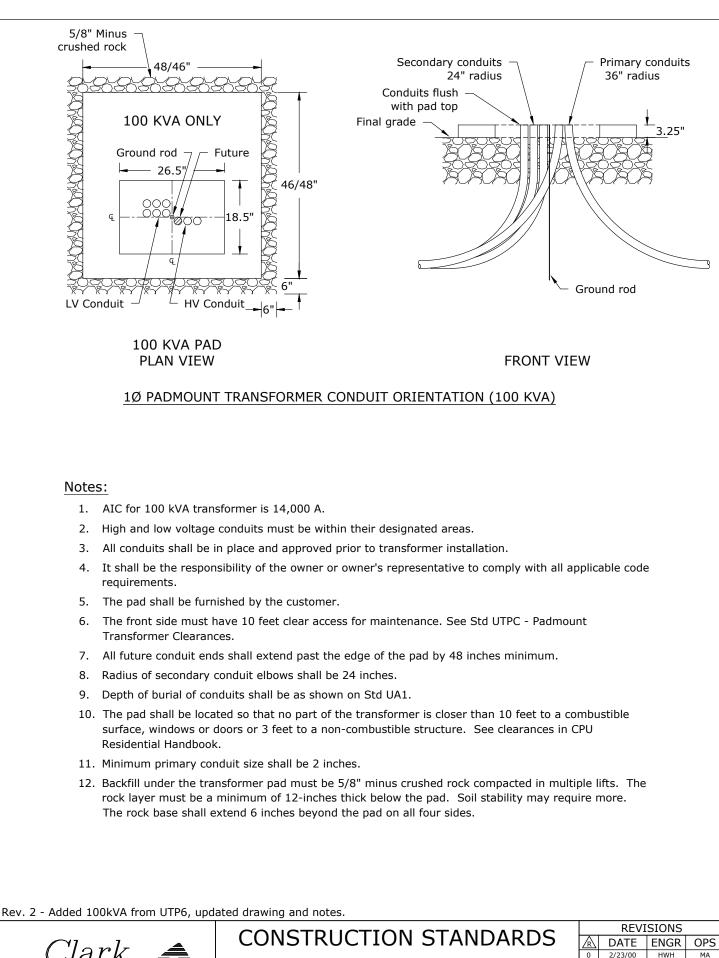


Notes:

- 1. AIC for 25 to 75 kVA transformers is 10,000 A.
- 2. High and low voltage conduits must be within their designated areas.
- 3. All conduits shall be in place and approved prior to transformer installation.
- 4. It shall be the responsibility of the owner or owner's representative to comply with all applicable code requirements.
- 5. The pad shall be furnished by the customer.
- 6. The front side must have 10 feet clear access for maintenance. See Std UTPC Padmount Transformer Clearances.
- 7. All future conduit ends shall extend past the edge of the pad by 48 inches minimum.
- 8. Radius of secondary conduit elbow shall be 24 inches.
- 9. Depth of burial of conduits shall be as shown on Std UA1.
- The pad shall be located so that no part of the transformer is closer than 10 feet to a combustible surface, windows or doors, or 3 feet to a non-combustible structure. See clearances in CPU Residential Handbook.
- 11. Minimum primary conduit size shall be 2 inches.
- 12. Backfill under the transformer pad must be 5/8" minus crushed rock compacted in multiple lifts. The rock layer must be a minimum of 12-inches thick below the pad. Soil stability may require more. The rock base shall extend 6 inches beyond the pad on all four sides.

Rev. 2 - Added 100kVA from UTP6, updated drawing and notes.

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