

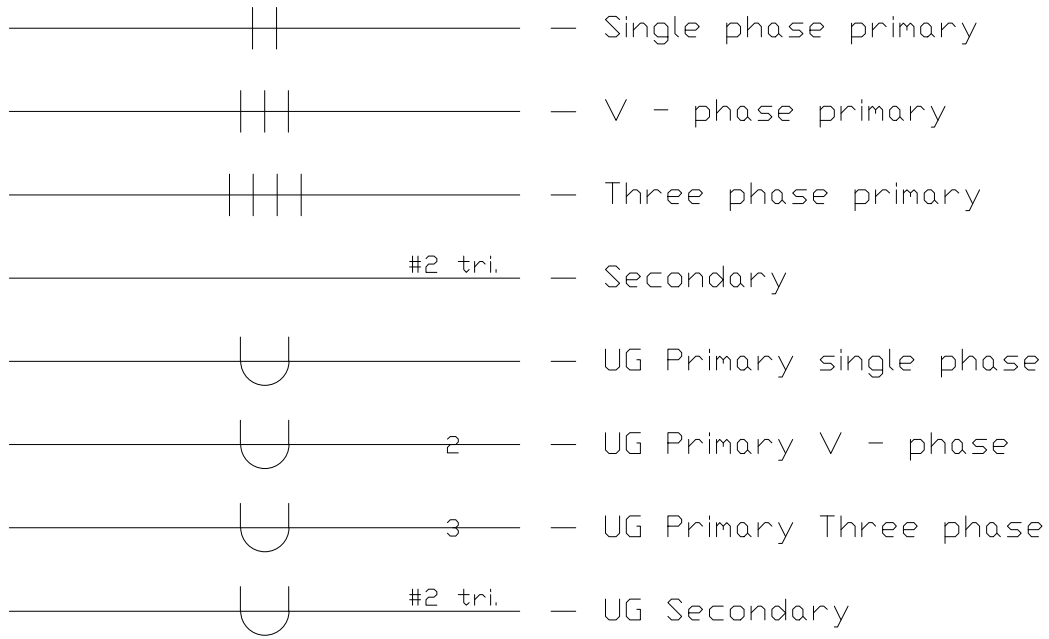


SPECIFICATIONS AND DRAWINGS
UNDERGROUND
ELECTRIC DISTRIBUTION

FORKED DEER ELECTRIC CO-OP
HALLS, TN
JOB NO: 81738
REVISED: SEPTEMBER 2018



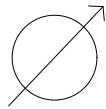
1661 International Drive, Suite 100, Memphis, TN 38120



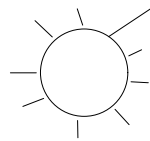
Transformer



Regulator



Yard Light



Solid Blade disconnect



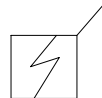
Pad Mount Transformer



Fuse



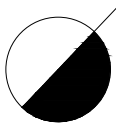
Lightning Arrestor



Gang Operated Switch



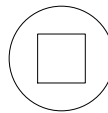
Recloser



Capacitors



UG Secondary pedestal



House



Sectionalizer



UG Primary junction box



Trailer



SYMBOLS

Sept. - 18

FDEC

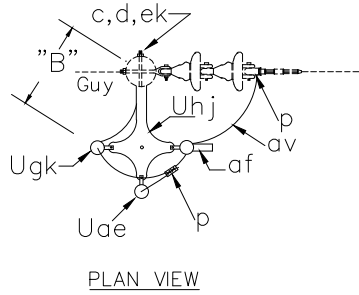
Common Underground Conductors

Primary

Catalog Number	Conductor Size AWG/kcmil	Nominal Dia. Over Insulation Ins.(mils)	Nominal Dia. Over Insulation Screen Ins.(mils)	Copper Neutral No. x Awg (1)	Nominal O.D. Ins.(mils)	Aprox. Net Weight lbs./1000'	Aprox. Ship Weight lbs./1000'	90°C Ampacity		105°C Ampacity	
								Direct Burial	In Ducts	Direct Burial	In Ducts
Aluminum - Conductor - Full Neutral - Okoguard - 100% Insulation Level											
161-23-2072	1/0 (19x)	0.75(750)	0.83(830)	16 x 14	1.06(1060)	667	725	220	160	235	175
1 inch = 1000 mils											

Secondary

Code Word	Phase Conductor			Neutral			Diameter Ins.(mils)		Weight Per 1000 feet (lbs.)	Allowable Ampacities+	
	Size (AWG)	Strand- ind	Insul. Thick. Ins.(mils)	Size (AWG)	Strand- ing	Insul. Thick. Ins.(mils)	Single Phase Cond.	Complete Cable		Direct Burial	In Ducts
Triplexed With Yellow Extruded Stripe Neutral.											
Brenau	1/0	9	0.080(80)	2	7	0.060(60)	0.512(512)	1.106(1106)	387	215	160
Sweetbriar	4/0	18	0.080(80)	2/0	11	0.080(80)	0.658(658)	1.421(1421)	709	315	240
Quadruplex With Yellow Extruded Stripe Neutral.											
Dyke	2	7	0.060(60)	4	7	0.060(60)	0.403(403)	0.973(973)	342	155	115
Notre Dame	1/0	9	0.080(80)	2	7	0.060(60)	0.512(512)	1.236(1236)	534	200	150
Wake Forest	4/0	18	0.080(80)	2/0	11	0.080(80)	0.658(658)	1.588(1588)	974	290	225
+ Ampacity: 90°C conductor temperature, 20°C ambient, RHO 90, 100% load factor for three conductor triplex with neutral carrying only unbalanced load. Technical data for cable with solid black neutral is identical to yellow extruded stripe data except for "YES" suffix to code word. Also available in paraleled construction. For NEC Application, use NEC Table 310.16 Ampacities. 1 mil = 0.001 inches											

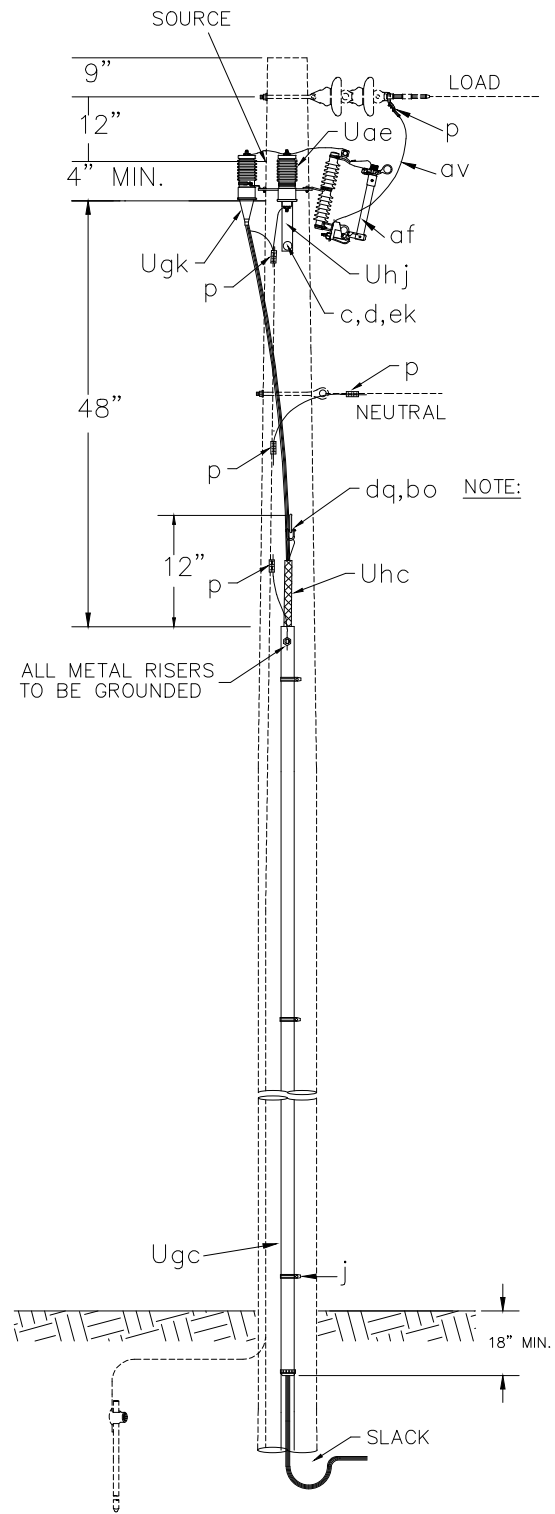


"B" MINIMUM	
7.2/12.5 kV	15"
14.4/24.9 kV	20"

MAY USE 2" SWINGING CLEVIS (ITEM s) INSTEAD OF ANCHOR SHACKLE.

NOTES:

1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.



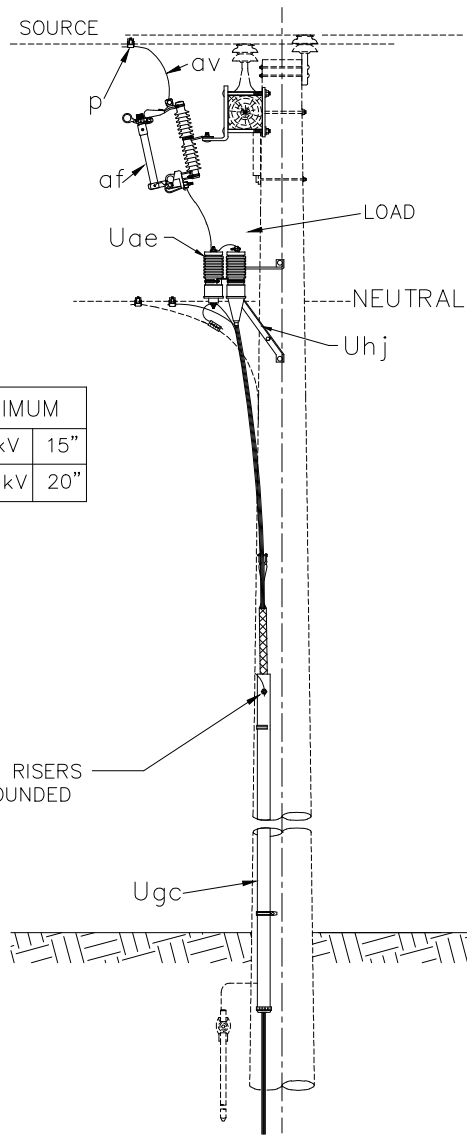
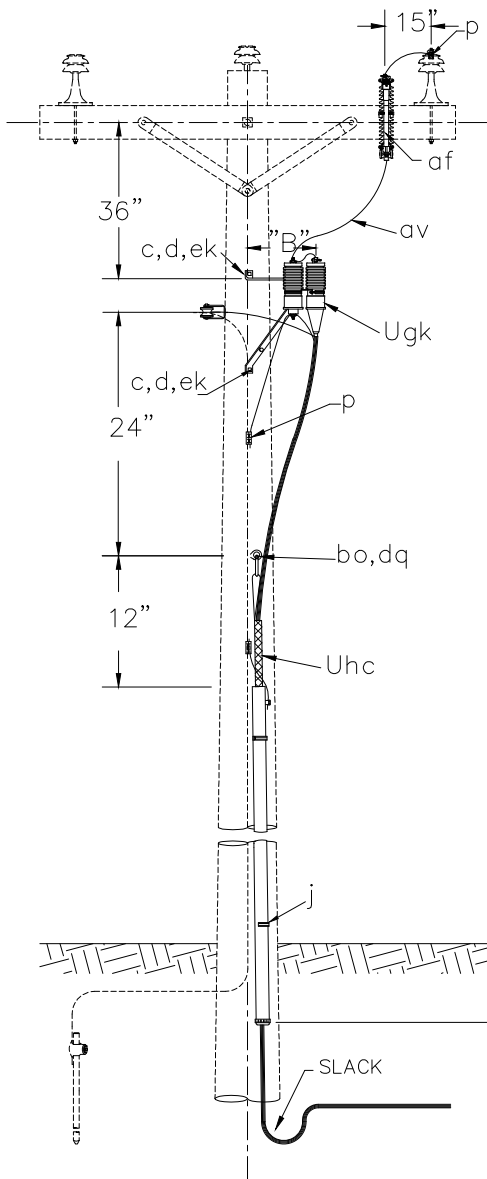
UNDERGROUND SOURCE
SINGLE PHASE CABLE DEADEND
TERMINAL POLE

ITEM	QTY.	MATERIAL
c	2	Bolt, machine, 5/8" x required length.
d	2	Washer, square 2 1/4".
p		Connectors, as required.
j		Screw, lag, 1/2" x 4", as required.
af	1	Fuse link.
af	1	Cutout
av		Jumpers, as required.
bo	1	Anchor, shackle. Do not use if drive hook is used.
dq	1	Eye screw, elliptical or drive hook.
ek	2	Locknuts, as required.
Uae	1*	Surge arrester
Ugc		Cable Riser Shield, length as required
Ujk	1	Cable termination.
Uhc	1	Cable support.
Uhj	1	Equipment support bracket.

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FDEC

1 - PHASE PRIMARY
12.47/7.2 kV

UA2



"B" MINIMUM	
7.2/12.5 kV	15"
14.4/24.9 kV	20"

ITEM	QTY.	MATERIAL
c	2	Bolt, machine, 5/8" x required length.
d	2	Washer, square 2 1/4".
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
af	1	Fuse link.
af	1	Cutout
av		Jumpers, as required.
bo	1	Anchor, shackle. Do not use if drive hook is used.
dq	1	Eye screw, elliptical or drive hook.
ek	2	Locknuts
Uae	1*	Surge arrester
Ugc	1	Cable riser shield. Length as required.
Ugk	1	Cable termination.
Uhc	1	Cable support.
Uhj	1	Bracket combination.

NOTES:

1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.

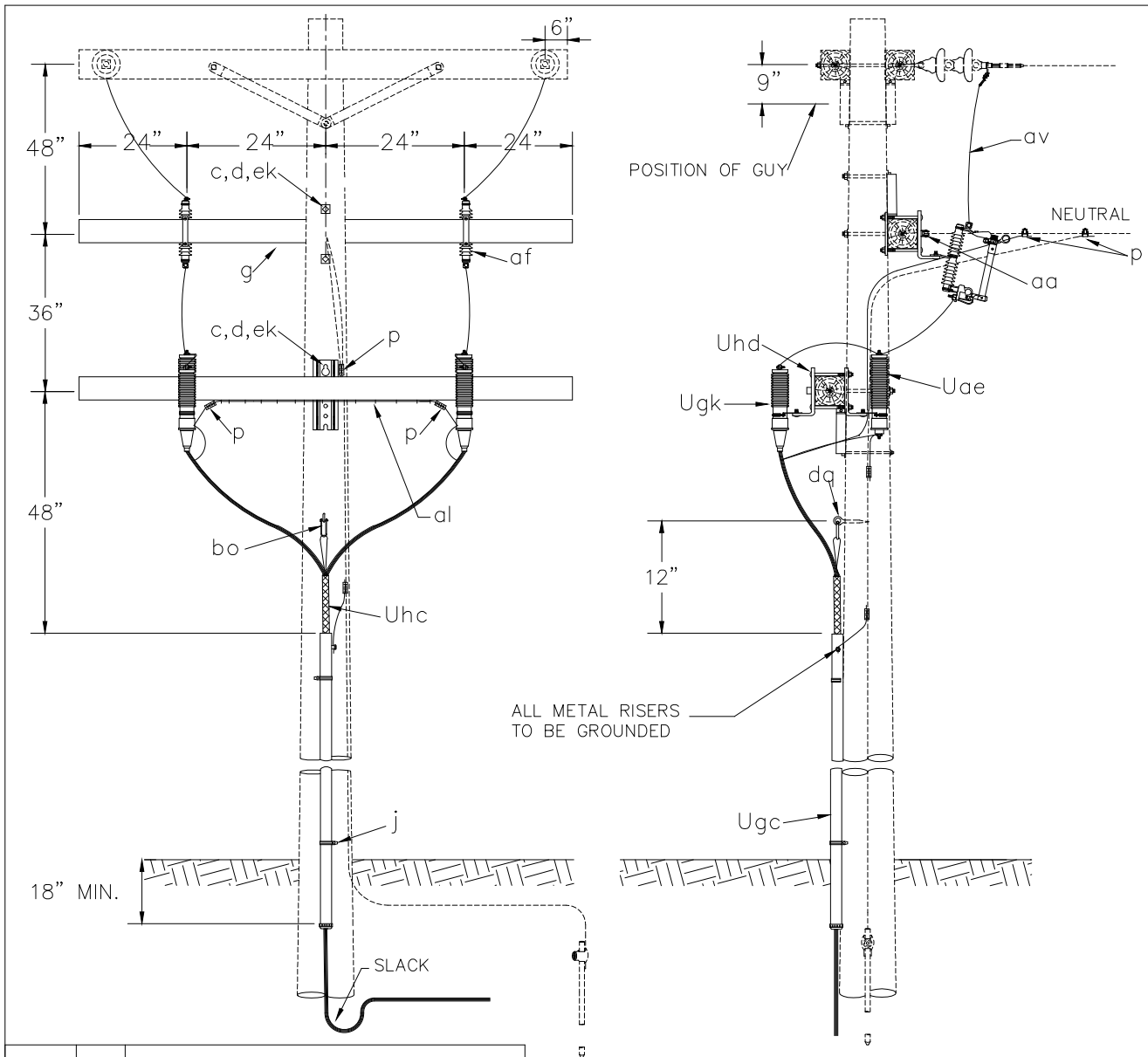
SINGLE PHASE CABLE TANGENT
TERMINAL POLE

Sept. - 18

FDEC

1 - PHASE PRIMARY
12.47/7.2 kV

UA3



ITEM	QTY.	MATERIAL
c	4	Bolt, machine, 5/8" x required length.
d	4	Washer, square 2 1/4".
g	2	Crossarm, fiberglass, 8'
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
aa	1	Eyenuts, 5/8"
af	2	Cutout
al		Staples, as required.
av		Jumpers, as required.
bo	1	Anchor, shackle.
dq	1	Eye screw, elliptical or drive hook.
ek	4	Locknuts, as required.
Uae	2*	Surge arrester
Ugc	1	Cable riser shield. Length as required.
Ugk	2	Cable termination.
Uhc	2	Cable support.
Uhd	2	Crossarm mounting bracket.

NOTES:

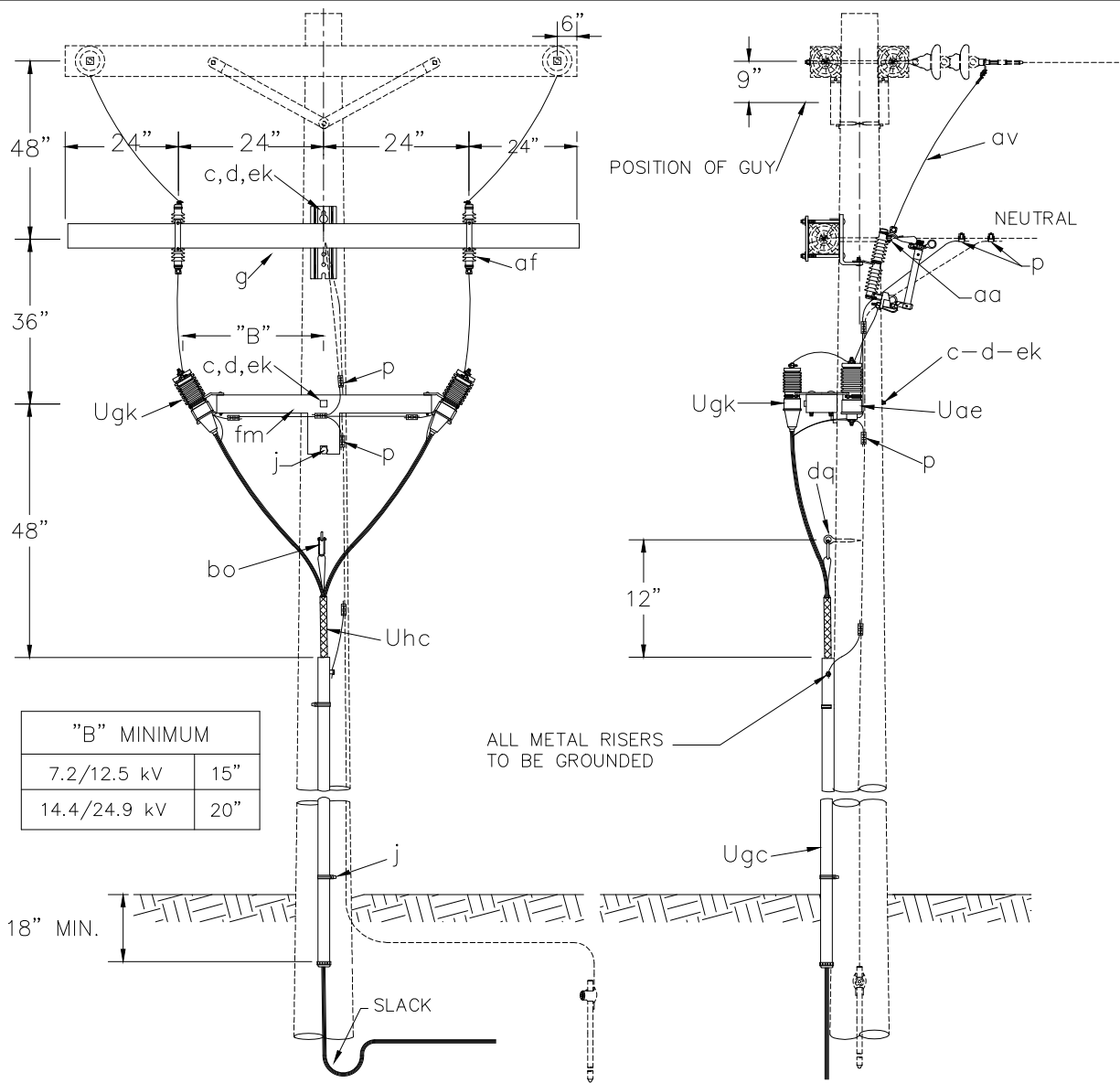
1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISERS.

VEE-PHASE CABLE TERMINAL POLE WITH CUTOUTS AND CROSSARM MOUNTING ARRESTERS

Sept. - 18
FDEC

2 - PHASE PRIMARY
12.47/7.2 kV

UB1



"B" MINIMUM	
7.2/12.5 kV	15"
14.4/24.9 kV	20"

ITEM	QTY.	MATERIAL
c	3	Bolt, machine, 5/8" x required length.
d	3	Washer, square 2 1/4".
g	1	Crossarm, fiberglass, 8'
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
aa	1	Eyenuits, 5/8"
af	2	Cutout
av		Jumpers, as required.
bo	1	Anchor, shackle.
dq	1	Eye screw, elliptical or drive hook.
ek	3	Locknuts, as required.
fm	1	Mounting bracket.
Uae	2*	Surge arrester
Ugc	1	Cable riser shield. Length as required.
Ugk	2	Cable termination.
Uhc	2	Cable support.

NOTES:

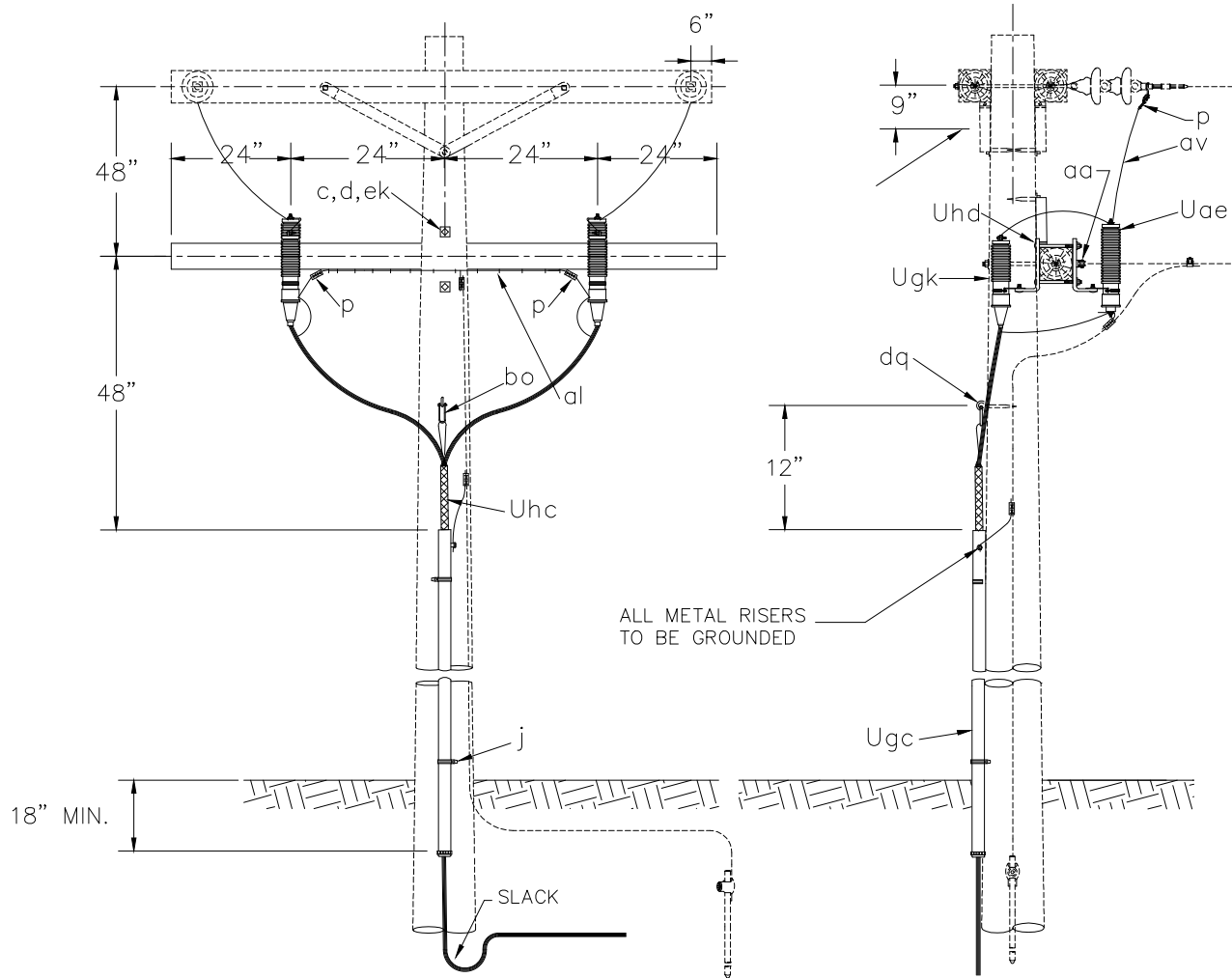
1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.

VEE – PHASE CABLE TERMINAL POLE WITH CUTOUTS AND BRACKET MOUNTING ARRESTERS

Sept. – 18
FDEC

2 – PHASE PRIMARY
12.47/7.2 kV

UB2



ITEM	QTY.	MATERIAL
c	2	Bolt, machine, 5/8" x required length.
d	2	Washer, square 2 1/4".
g	1	Crossarm, fiberglass, 8'
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
aa	1	Nut, eye, 5/8"
al		Staples, as required.
av		Jumpers, as required.
bo	1	Anchor, shackle.
dq	1	Eye screw, elliptical or drive hook.
ek	2	Locknuts, as required.
Uae	2*	Surge arrester
Ugc	1	Cable riser shield. Length as required.
Ugk	2	Cable termination.
Uhc	2	Cable support.
Uhd	2	Crossarm mounting bracket.

NOTES:

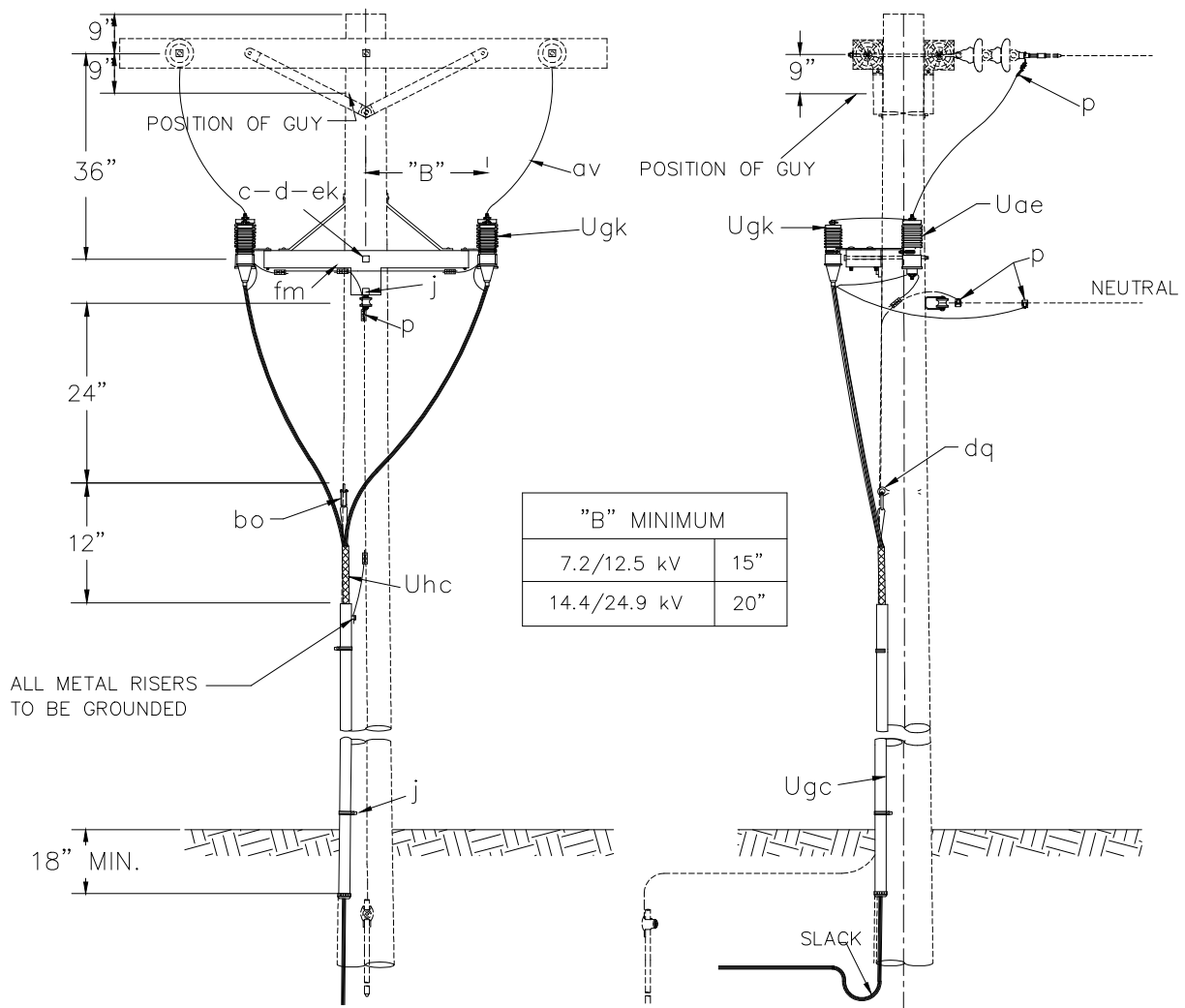
1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.

VEE – PHASE CABLE TERMINAL POLE WITH CUTOUTS AND CROSSARM MOUNTING ARRESTERS

Sept. – 18
FDEC

2 – PHASE PRIMARY
12.47/7.2 kV

UB3



"B" MINIMUM	
7.2/12.5 kV	15"
14.4/24.9 kV	20"

ITEM	QTY.	MATERIAL
c	1	Bolt, machine, 5/8" x required length.
d	1	Washer, square 2 1/4".
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
av		Jumpers, as required.
bo	1	Anchor, shackle.
dq	1	Eye screw, elliptical or drive hook.
ek		Locknuts, as required.
fm	1	Mounting bracket.
Uae	2*	Surge arrester
Ugc		Cable riser shield. Length as required.
Ugk	2	Cable termination.
Uhc	2	Cable support.

NOTES:

1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.

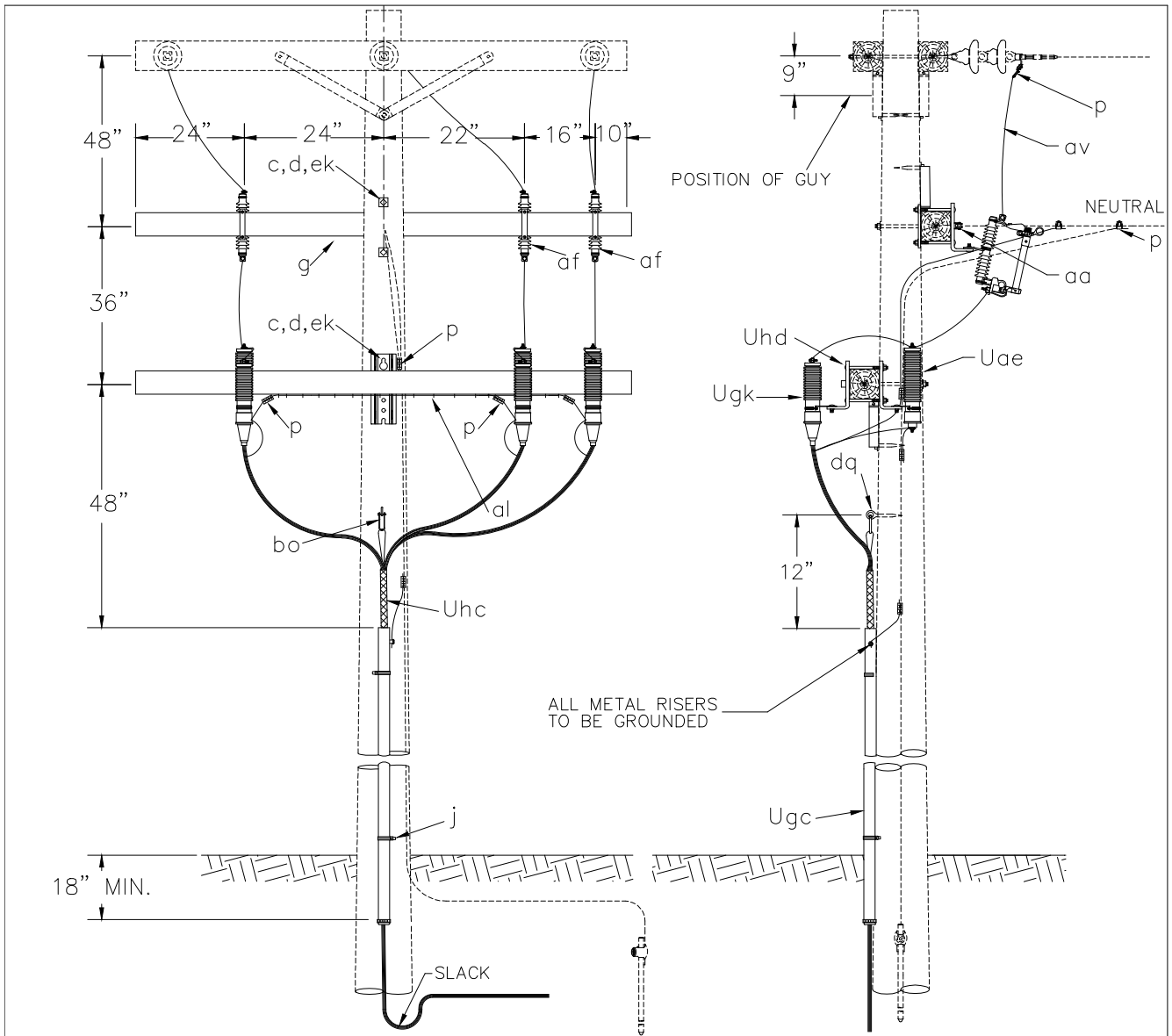
VEE - PHASE CABLE TERMINAL POLE WITH CUTOUT, WITH BRACKET MOUNTING ARRESTERS

Sept. - 18

FDEC

2 - PHASE PRIMARY
12.47/7.2 kV

UB4



ITEM	QTY.	MATERIAL
c	4	Bolt, machine, 5/8" x required length.
d	4	Washer, square 2 1/4".
g	2	Crossarm, fiberglass, 8'
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
aa	1	Eyenut, 5/8"
af	3	Cutout
al		Staples, as required.
av		Jumpers, as required.
bo	1	Anchor, shackle.
dq	1	Eye screw, elliptical or drive hook.
ek	4	Locknuts, as required.
Uae	3*	Surge arrester
Ugc	1	Cable riser shield. Length as required.
Ugk	3	Cable termination.
Uhc	3	Cable support.
Uhd	2	Crossarm mounting bracket.

NOTES:

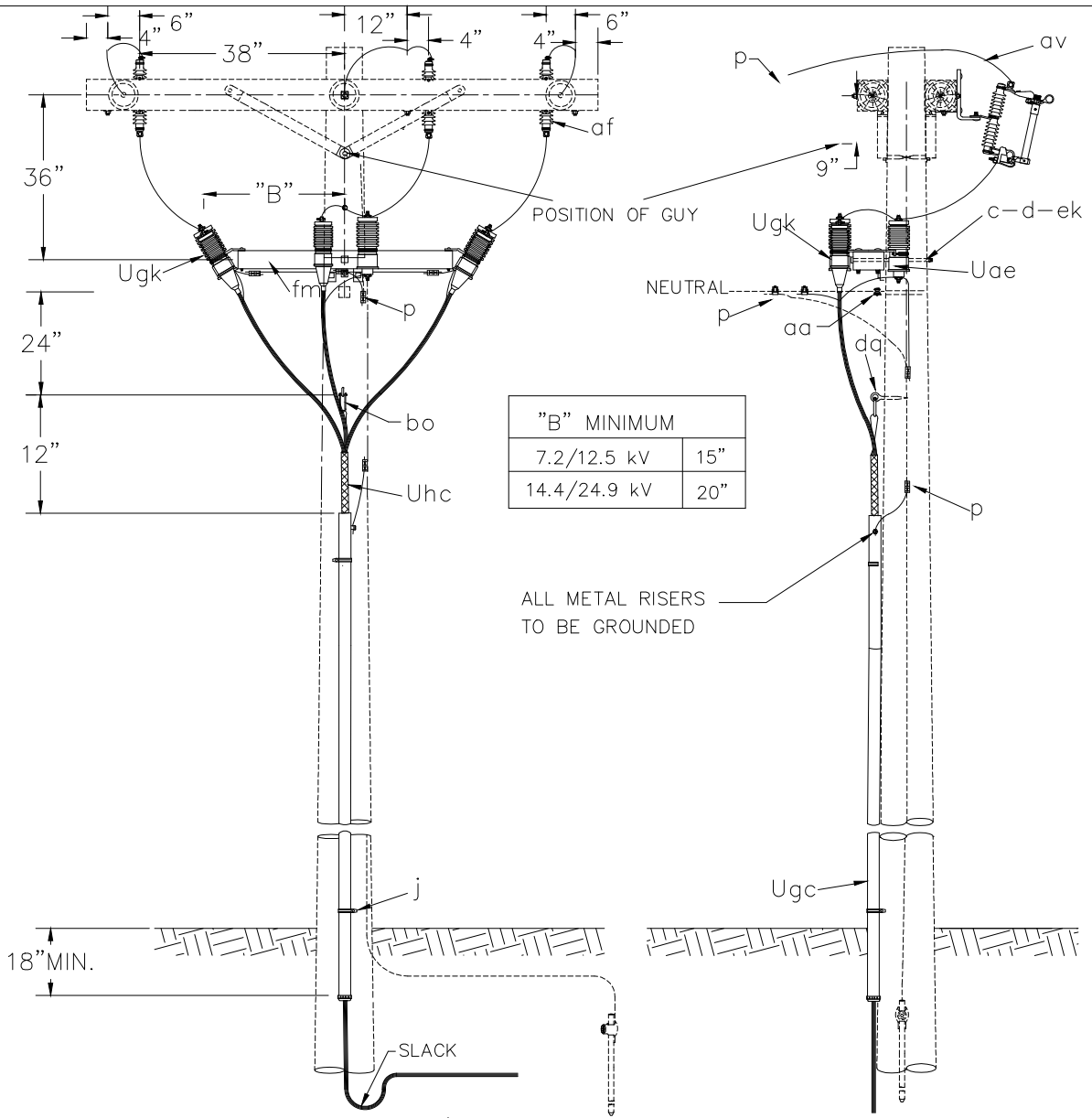
1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.

THREE PHASE CABLE TERMINAL POLE WITH CUTOUTS AND CROSSARM MOUNTING ARRESTERS

Sept. - 18
FDEC

3 - PHASE PRIMARY
12.47/7.2 kV

UC1



"B" MINIMUM	
7.2/12.5 kV	15"
14.4/24.9 kV	20"

ALL METAL RISERS TO BE GROUNDED

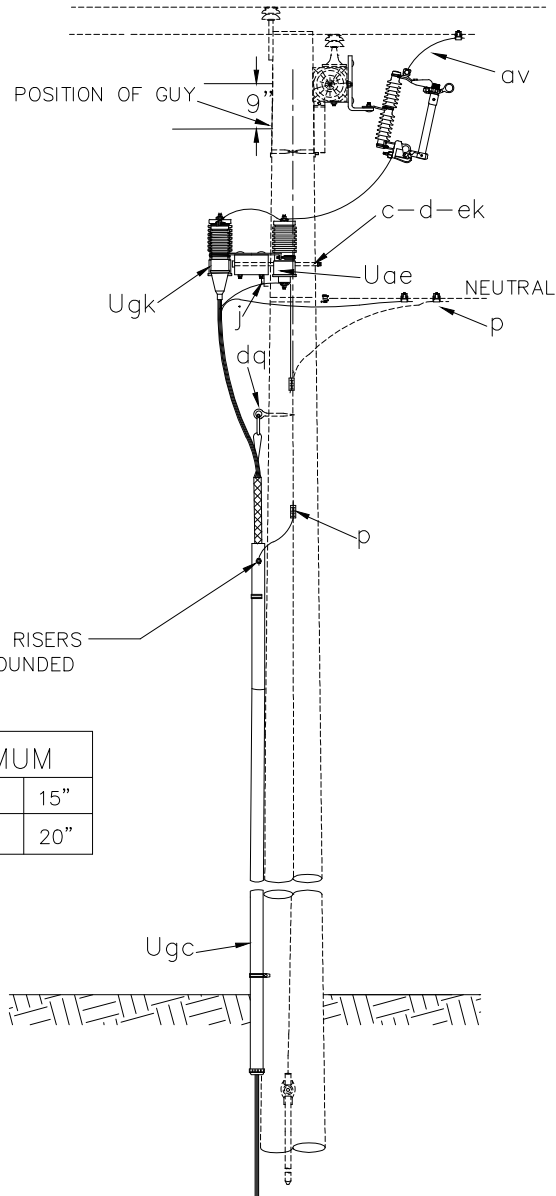
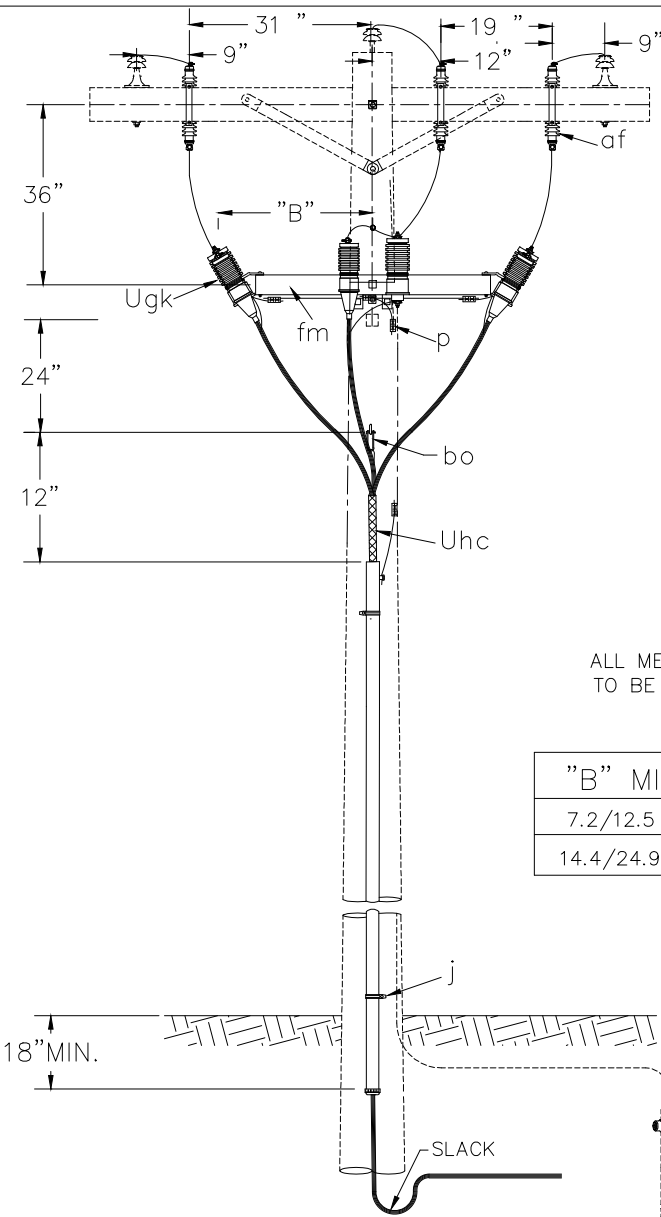
ITEM	QTY.	MATERIAL
a	3	Insulator, pin type
c	1	Bolt, machine, 5/8" x required length.
d	1	Washer, square 2 1/4".
f	3	Pin, crossarm
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
aa	1	Eyenuit, 5/8"
af	3	Cutout
av		Jumpers, as required.
bo	1	Anchor, shackle.
dq	1	Eye screw, elliptical or drive hook.
ek		Locknuts, as required.
fm	1	Mounting bracket.
Uae	3*	Surge arrester
Ugc	1	Cable riser shield. Length as required.
Ugk	3	Cable termination.
Uhc	3	Cable support.

NOTES:

- TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
- NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
- ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.

THREE PHASE CABLE DEADEND TERMINAL POLE

Sept. - 18	3 - PHASE PRIMARY	UC2-1
FDEC	12.47/7.2 kV	



"B" MINIMUM	
7.2/12.5 kV	15"
14.4/24.9 kV	20"

ITEM	QTY.	MATERIAL
c	1	Bolt, machine, 5/8" x required length.
d	1	Washer, square 2 1/4".
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
aa	1	Eyenuit, 5/8"
af	3	Cutout
av		Jumpers, as required.
bo	1	Anchor, shackle.
dq	1	Eye screw, elliptical or drive hook.
ek		Locknuts, as required.
fm	1	Mounting bracket.
Uae	3*	Surge arrester
Ugc	1	Cable riser shield. Length as required.
Ugk	3	Cable termination.
Uhc	3	Cable support.

NOTES:

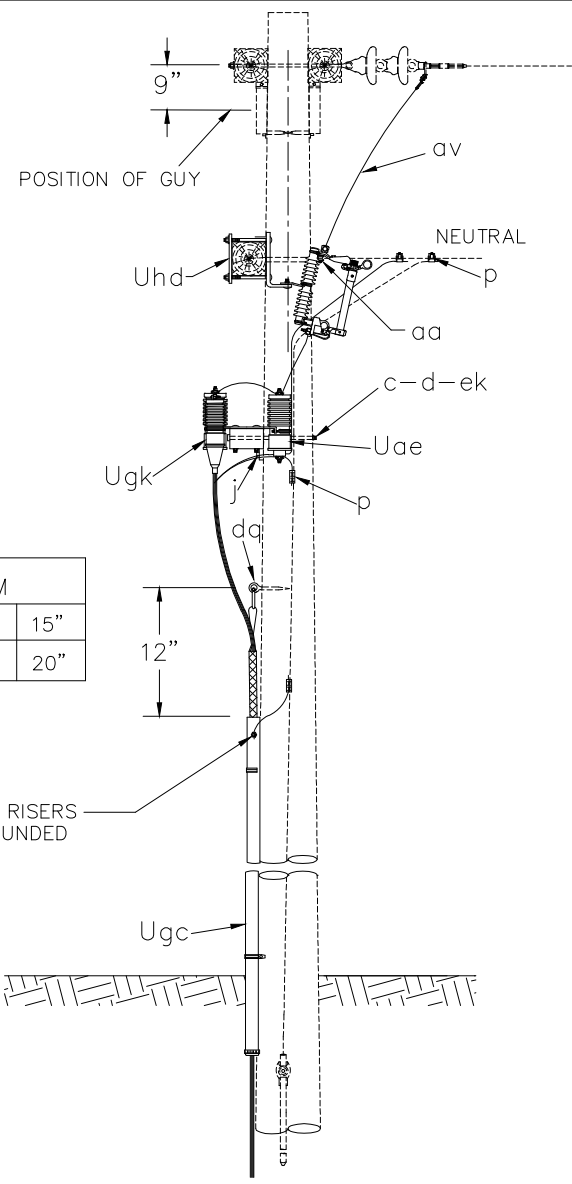
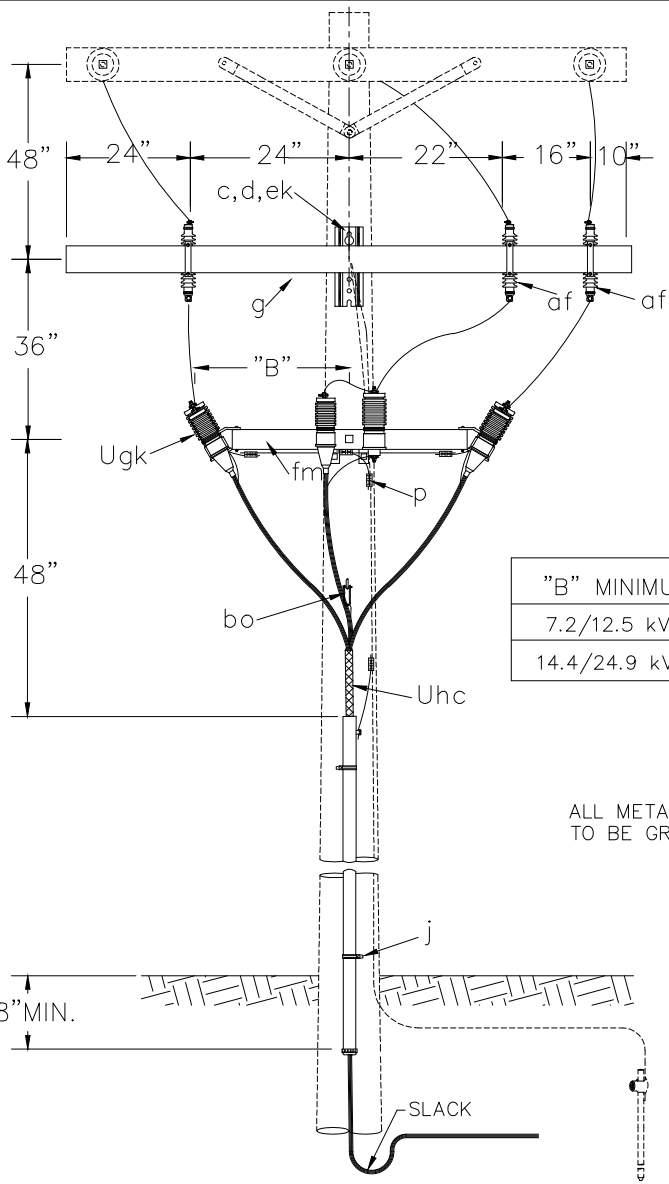
1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.

THREE PHASE CABLE TANGENT TERMINAL POLE

Sept. - 18
FDEC

3 - PHASE PRIMARY
12.47/7.2 kV

UC2-2



"B" MINIMUM	
7.2/12.5 kV	15"
14.4/24.9 kV	20"

ALL METAL RISERS TO BE GROUNDED

ITEM	QTY.	MATERIAL
c	2	Bolt, machine, 5/8" x required length.
d	2	Washer, square 2 1/4".
g	1	Crossarm, 3 5/8" x 4 5/8" x 8'-0"
i	2	Bolt, carriage, 3/8" x 4 1/2"
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
aa	1	Eyenuit, 5/8"
af	3	Cutout
av		Jumpers, as required.
bo	1	Anchor, shackle.
dq	1	Eye screw, elliptical or drive hook.
ek	4	Locknuts, as required.
fm	1	Mounting bracket.
Uae	3*	Surge arrester
Ugc	1	Cable riser shield. Length as required.
Ugk	3	Cable termination.
Uhc	3	Cable support.

NOTES:

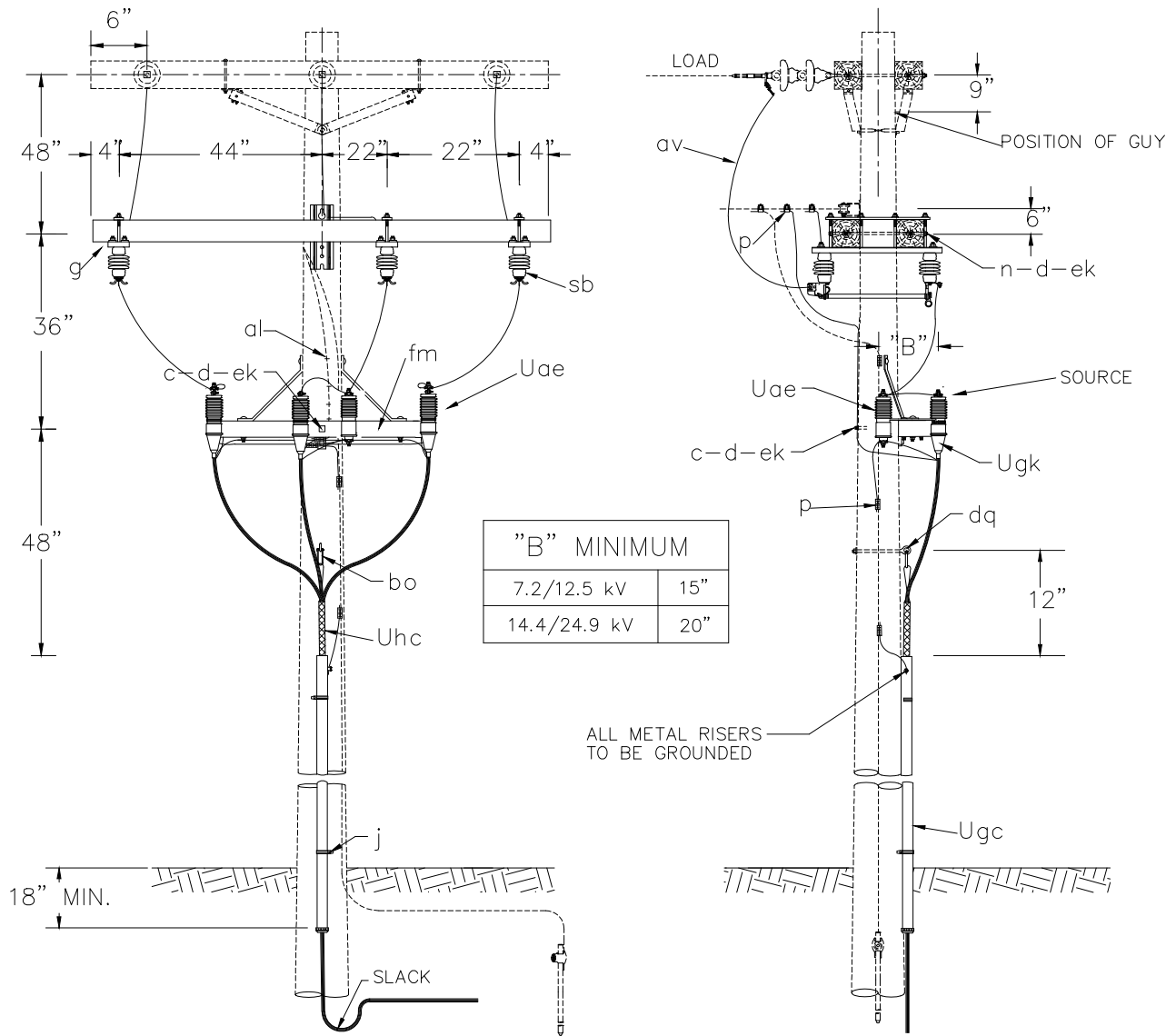
- TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
- NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
- ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.

THREE PHASE CABLE TERMINAL POLE WITH CUTOUTS AND BRACKET MOUNTING ARRESTERS

Sept. - 18
FDEC

3 - PHASE PRIMARY
12.47/7.2 kV

UC2



ITEM	QTY.	MATERIAL
c	3	Bolt, machine, 5/8" x as required
d	15	Washer, 2 1/4" square
g	2	Crossarm, fiberglass, 8'
j		Screw, lag 1/2" x 4", as required
n	12	Bolt, double arming, 5/8" x req'd length
p		Connectors, as required.
al		Staples, as required.
av		Jumpers, as required.
bo	1	Anchor, shackle.
dq	1	Eye screw, elliptical or drive hook.
ek	16	Locknuts, as required.
fm	1	Bracket, pothead-arrester 3 phase
sb	3	Disconnect, 600 A load break
Uae	3	Surge arrester
Ugc	1	Cable riser shield. Length as required.
Ugk	3	Cable termination.
Uhc	3	Grips

NOTES:

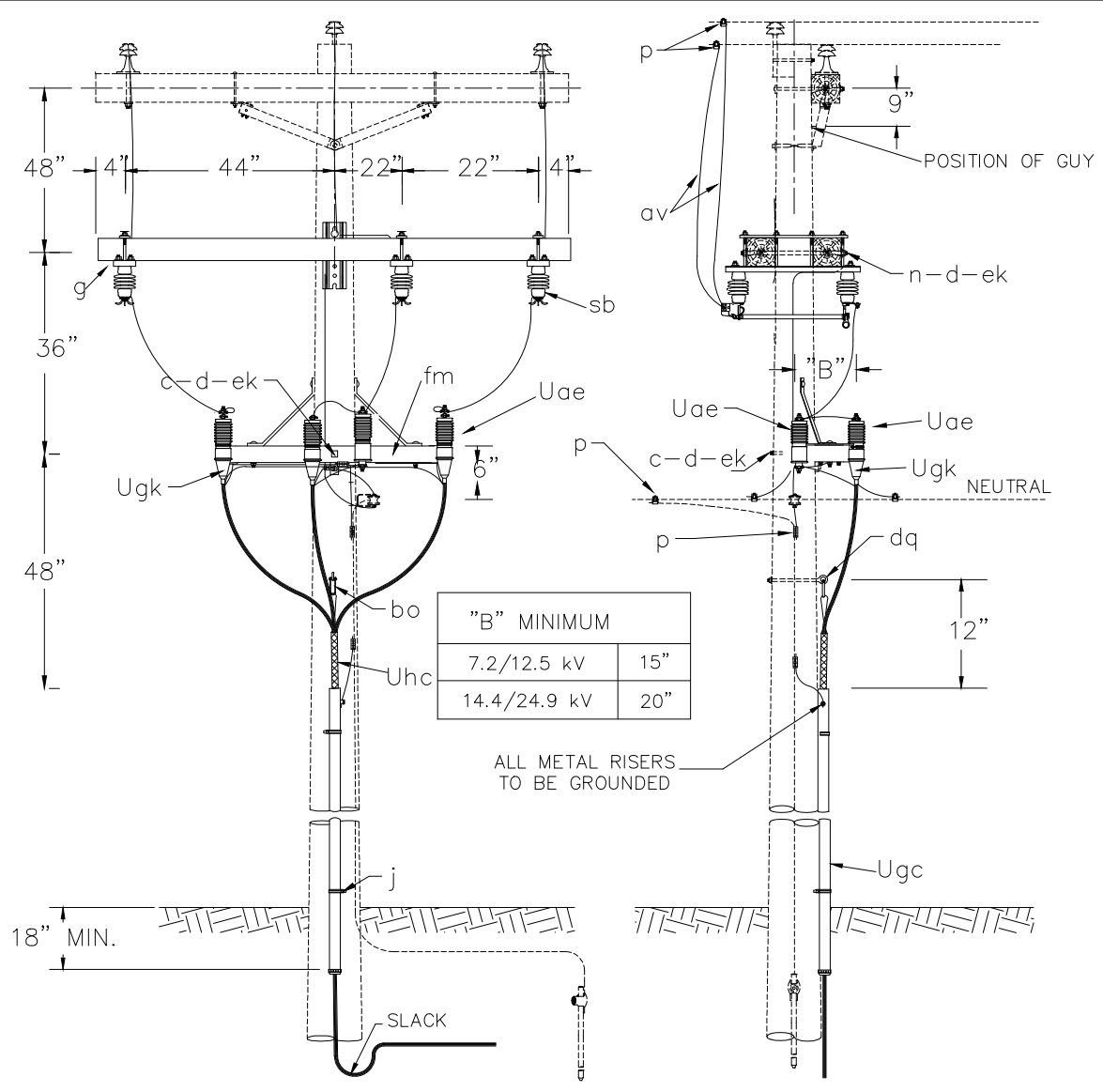
1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.
4. REVERSE UNDERSLUNG SWITCHES FOR OVERHEAD SOURCE.

THREE PHASE CABLE DEADEND
TERMINAL POLE WITH
DISCONNECT SWITCHES

Sept. - 18
FDEC

3 - PHASE PRIMARY
12.47/7.2 kV

UC5-1



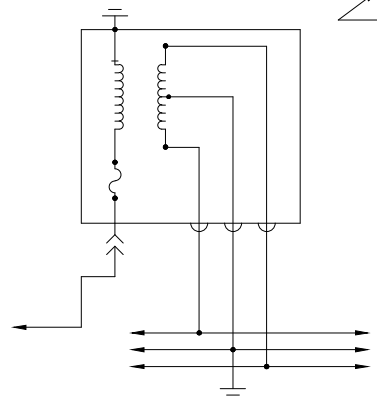
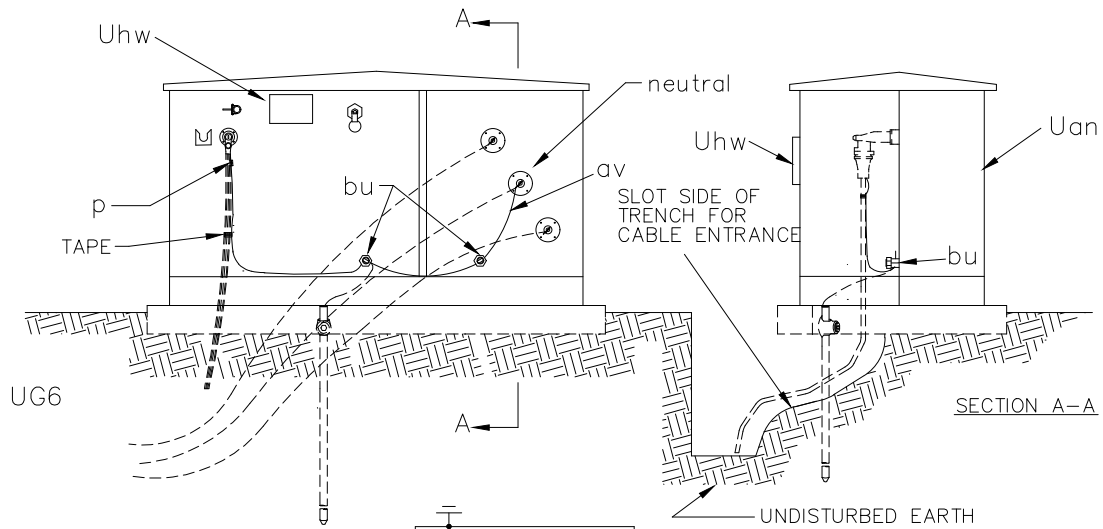
ITEM	QTY.	MATERIAL
c	3	Bolt, machine, 5/8" x as required
d	15	Washer, 2 1/2" square
g	2	Crossarm, fiberglass, 8'
j		Screw, lag 1/2" x 4", as required
n	12	Bolt, double arming, 5/8" x req'd length
p		Connectors, as required.
al		Staples, as required.
av		Jumpers, as required.
bo	1	Anchor, shackle.
dq	1	Eye screw, elliptical or drive hook.
ek		Locknuts, as required.
fm	1	Bracket, pothead-arrester 3 phase
sb	3	Disconnect, 600 A load break
Uae	3	Surge arrester
Ugc		Cable riser shield. Length as required.
Ugk	3	Cable termination.
Uhc	3	Grips

NOTES:

1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.

THREE PHASE CABLE TANGENT
TERMINAL POLE WITH
DISCONNECT SWITCHES

Sept. - 18	3 - PHASE PRIMARY	UC6-1
FDEC	12.47/7.2 kV	



WIRING DIAGRAM
UG6

DESIGNATE AS:

TRANSFORMER WITHOUT SECONDARY BREAKERS	TRANSFORMER WITH SECONDARY BREAKERS	
UG6	UG6B	SINGLE TERMINATION TYPE WITH INTERNAL FUSE

NOTES:

1. PROVIDE SUFFICIENT PRIMARY NEUTRAL PIGTAIL AND CABLE SLACK TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND. TRAIN CABLES AS SHOWN.
2. INSTALL WITH UNIT UM48-1 OR OTHER GROUNDING UNIT TO BE SPECIFIED SEPARATELY.
3. SPECIFY PAD OR SLEEVE SEPARATELY.
4. INSTALL "DANGER" SIGN ON TRANSFORMER INSIDE ENCLOSURE. INSTALL "WARNING" SIGN ON OUTSIDE SURFACE OF ENCLOSURE.

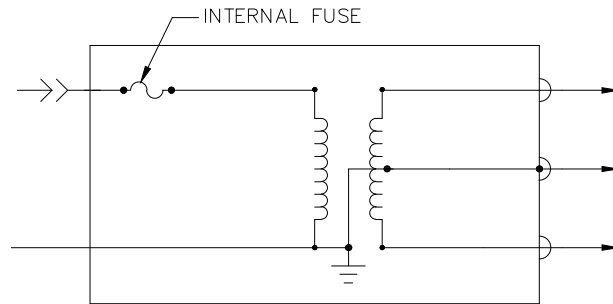
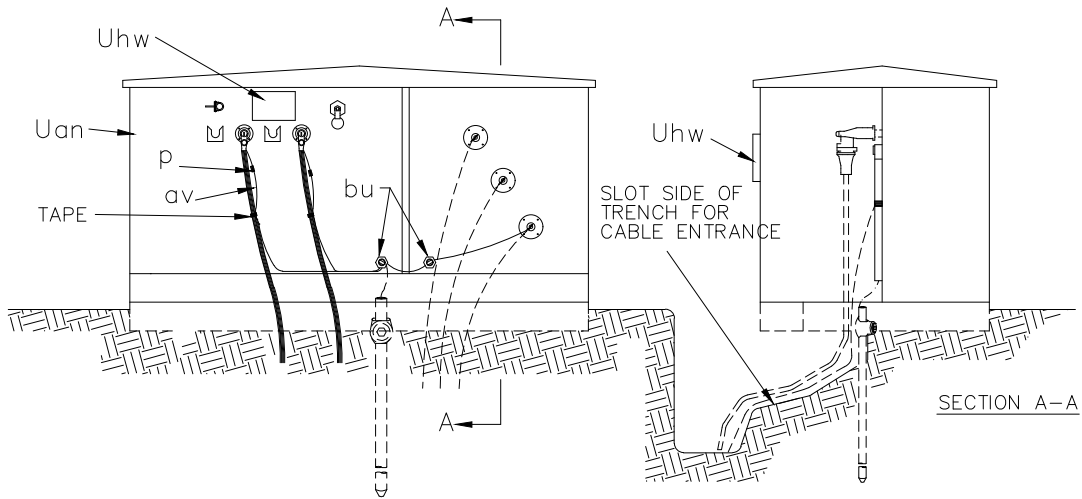
ITEM	QTY.	MATERIAL
p		Connectors, as required
av		Jumpers, copper as required
bu	2	Connector, equipment ground
Uan	1	Transformer, pad mounted, single primary load break bushing and internal fuse (UG6 & UG6B).
Uhw	2	Signs, "DANGER" and "WARNING"
		Tape, as required

SINGLE PHASE
PAD - MOUNTED TRANSFORMER
(RADIAL FEED)

Sept. - 18
FDEC

1 - PHASE PRIMARY
12.47/7.2 kV

UG6,
UG6B



WIRING DIAGRAM
UG7

DESIGNATE AS:

TRANSFORMER WITHOUT SECONDARY BREAKERS	TRANSFORMER WITH SECONDARY BREAKERS	
UG7	UG17B	UNIT WITH INTERNAL FUSE

NOTES:

1. PROVIDE SUFFICIENT PRIMARY NEUTRAL PIGTAIL AND CABLE SLACK TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND. TRAIN CABLES AS SHOWN.
2. INSTALL WITH UNIT UM48-1 OR OTHER GROUNDING UNIT TO BE SPECIFIED SEPARATELY.
3. SPECIFY PAD OR SLEEVE UNIT SEPARATELY.
4. INSTALL "DANGER" SIGN ON TRANSFORMER AND "WARNING" SIGN ON ENCLOSURE.

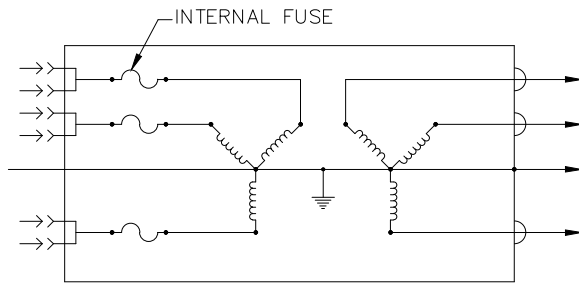
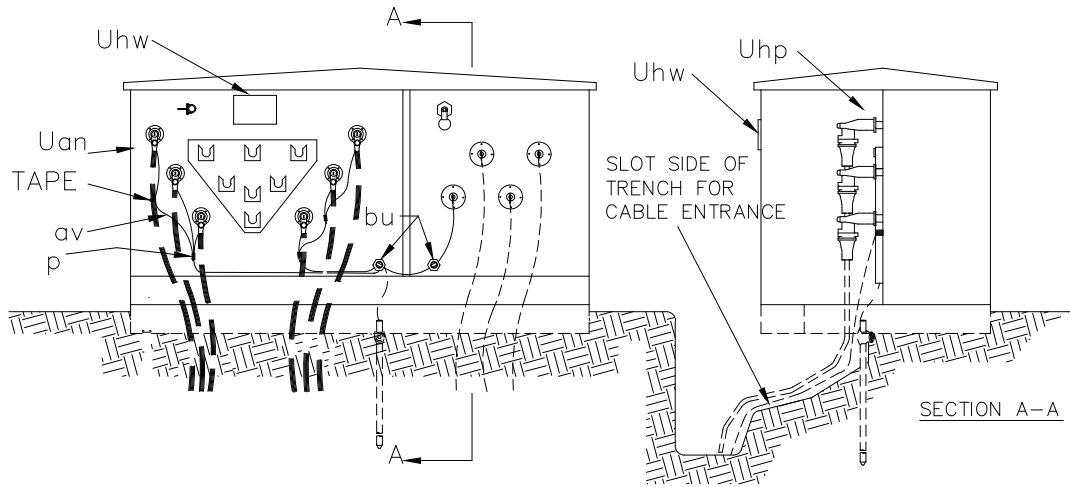
ITEM	QTY.	MATERIAL
p		Connectors, as required
av		Jumpers, copper as required
bu	2	Connector, equipment ground
Uan	1	Transformer, pad mounted, single phase with one load break bushing per phase and internal fuses (UG7 & UG17B)
Uhw	2	Signs, "DANGER" and "WARNING"
Uhp	1	Elbow Termination
		Ground wire (See Note #3)
		Tape, as required

SINGLE PHASE
PAD MOUNTED TRANSFORMER
(LOOP FEED)

Sept. - 18
FDEC

1 - PHASE PRIMARY
12.47/7.2 kV

UG7,
UG7B



WIRING DIAGRAM
UG17-2

DESIGNATE AS:

TRANSFORMER WITHOUT SECONDARY BREAKERS	TRANSFORMER WITH SECONDARY BREAKERS	
UG17-2	UG17-2B	UNIT WITH INTERNAL FUSE

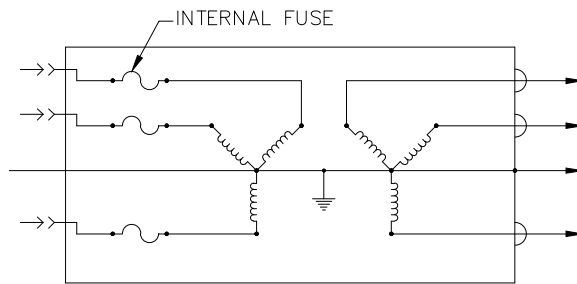
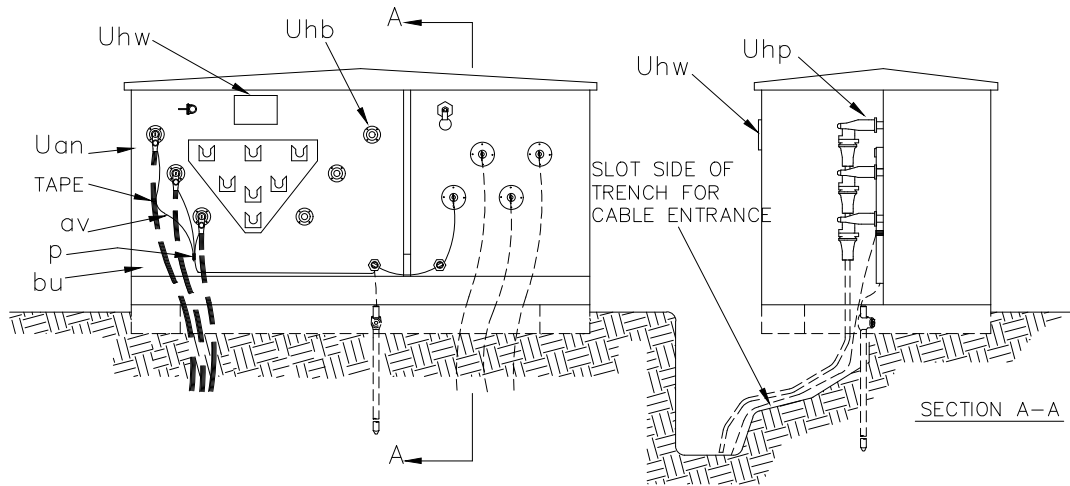
NOTES:

- ONLY THE WYE-WYE CONNECTION SHOULD BE USED TO AVOID FERRORESONANCE.
- PROVIDE SUFFICIENT PRIMARY NEUTRAL PIGTAIL AND CABLE SLACK TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND. TRAIN CABLES AS SHOWN.
- INSTALL WITH GROUNDING ASSEMBLY TO BE SPECIFIED.
- SPECIFY kVA SIZE OF TRANSFORMER.
- SPECIFY PAD OR SLEEVE UNIT SEPARATELY.
- INSTALL "DANGER" SIGN ON TRANSFORMER INSIDE ENCLOSURE. INSTALL "WARNING" SIGN ON OUTSIDE SURFACE OF ENCLOSURE.

ITEM	QTY.	MATERIAL
p		Connectors, as required
av		Jumpers, copper, as required
bu	2	Connector, equipment ground
Uan	1	Transformer, pad mounted, three phase with two load break bushings per phase and internal fuse.
Uhw	2	Signs, "DANGER" and "WARNING"
Uhp	6	Elbow termination
		Tape, as required
		Ground wire (See Note #3)

THREE PHASE
PAD MOUNTED TRANSFORMER
(LOOP FEED)

Sept. - 18	3 - PHASE PRIMARY	UG17 - 2,
FDEC	12.47/7.2 kV	UG17 - 2B



WIRING DIAGRAM

DESIGNATE AS:

TRANSFORMER WITHOUT SECONDARY BREAKERS	TRANSFORMER WITH SECONDARY BREAKERS	
UG17-3	UG17-3B	UNIT WITH INTERNAL FUSE

NOTES:

- ONLY THE WYE-WYE CONNECTION SHOULD BE USED TO AVOID FERRORESONANCE.
- PROVIDE SUFFICIENT PRIMARY NEUTRAL PIGTAIL AND CABLE SLACK TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND. TRAIN CABLES AS SHOWN.
- INSTALL WITH GROUNDING ASSEMBLY TO BE SPECIFIED SEPARATELY.
- SPECIFY PAD OR SLEEVE UNIT SEPARATELY.
- INSTALL "DANGER" SIGN ON TRANSFORMER INSIDE ENCLOSURE. INSTALL "WARNING" SIGN ON OUTSIDE SURFACE OF ENCLOSURE.

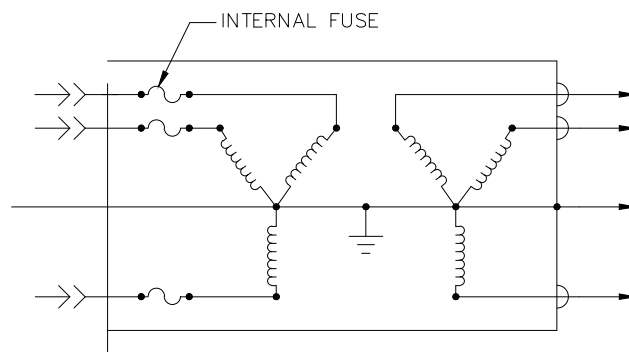
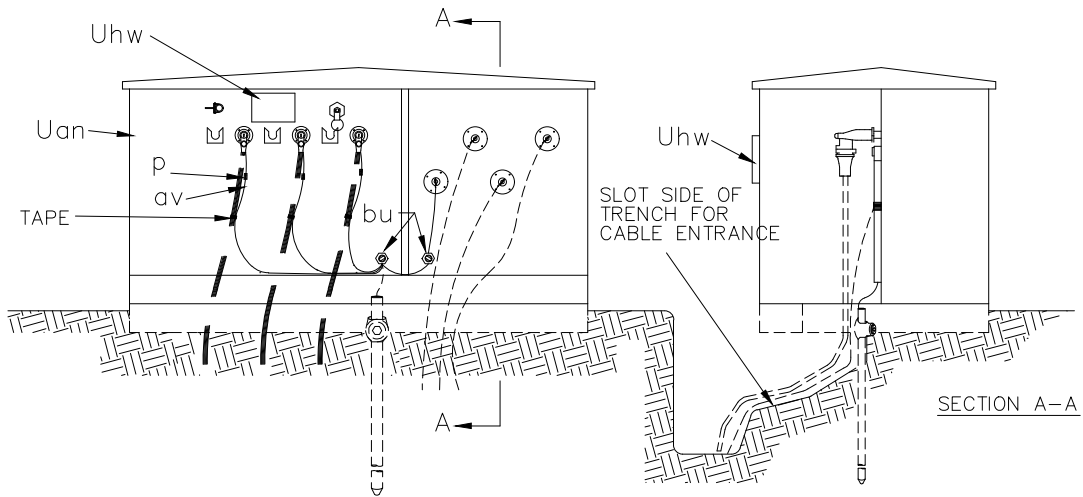
ITEM	QTY.	MATERIAL
p		Connectors, as required
av		Jumpers, copper, as required
bu	2	Connector, equipment ground
Uan	1	Transformer, pad mounted, three phase, with two load break bushings per phase and internal fuse.
Uhb	3	Insulated covers
Uhw	2	Signs, "DANGER" and "WARNING"
Uhp	3	Elbow termination
		Tape, as required
		Ground wire (See Note #3)

THREE PHASE
PAD MOUNTED LOOP FEED
TRANSFORMER WITH RADIAL FEED

Sept. - 18
FDEC

3 - PHASE PRIMARY
12.47/7.2 kV

UG17 - 3,
UG17 - 3B



WIRING DIAGRAM
UG 17

DESIGNATE AS:

TRANSFORMER WITHOUT SECONDARY BREAKERS	TRANSFORMER WITH SECONDARY BREAKERS	UNIT WITH INTERNAL FUSE
UG17	UG17B	

NOTES:

- ONLY THE WYE-WYE CONNECTION SHOULD BE USED TO MINIMIZE FERRO-RESONANCE.
- PROVIDE SUFFICIENT PRIMARY NEUTRAL PIGTAIL AND CABLE SLACK TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND. TRAIN CABLES AS SHOWN.
- INSTALL WITH UNIT UM48-1 OR OTHER GROUNDING UNIT TO BE SPECIFIED SEPARATELY.
- SPECIFY PAD OR SLEEVE UNIT SEPARATELY.
- INSTALL "DANGER" SIGN ON TRANSFORMER INSIDE ENCLOSURE. INSTALL "WARNING" SIGN ON OUTSIDE SURFACE OF ENCLOSURE.
- THREE PHASE SWITCHING OF PRIMARY SHOULD BE INSTALLED WHERE FERRORESONANCE MAY OCCUR.

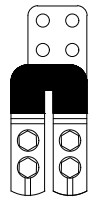
ITEM	QTY.	MATERIAL
p		Connectors, as required
av		Jumpers, copper as required
bu	2	Connector, equipment ground
Uan	1	Transformer, pad mounted, three phase with one load break bushing per phase and internal fuses (UG17 & UG17B)
Uhw	2	Signs, "DANGER" and "WARNING"
Uhp	3	Elbow Termination
		Ground wire (See Note #3)
		Tape, as required

THREE PHASE
PAD MOUNTED TRANSFORMER
(RADIAL FEED)

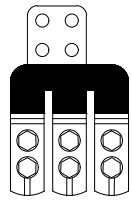
Sept. - 18
FDEC

3 - PHASE PRIMARY
12.47/7.2 kV

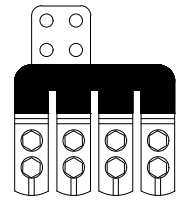
UG17,
UG17B



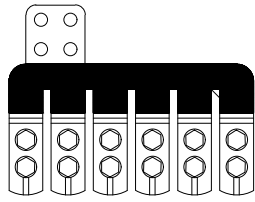
UJ1-2



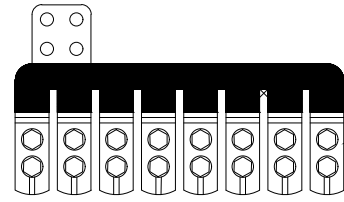
UJ1-3



UJ1-4



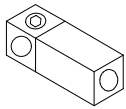
UJ1-6



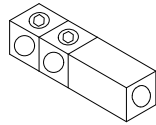
UJ1-8

Ugp

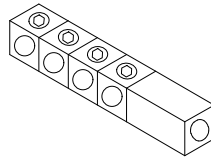
CONNECTOR BLOCKS



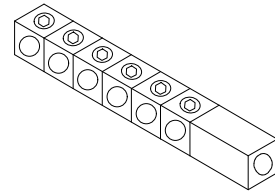
UJ2-1



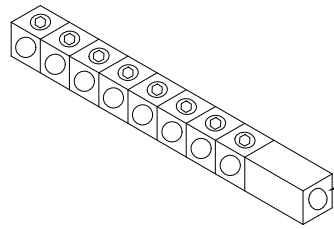
UJ2-2



UJ2-4



UJ2-6



UJ2-8

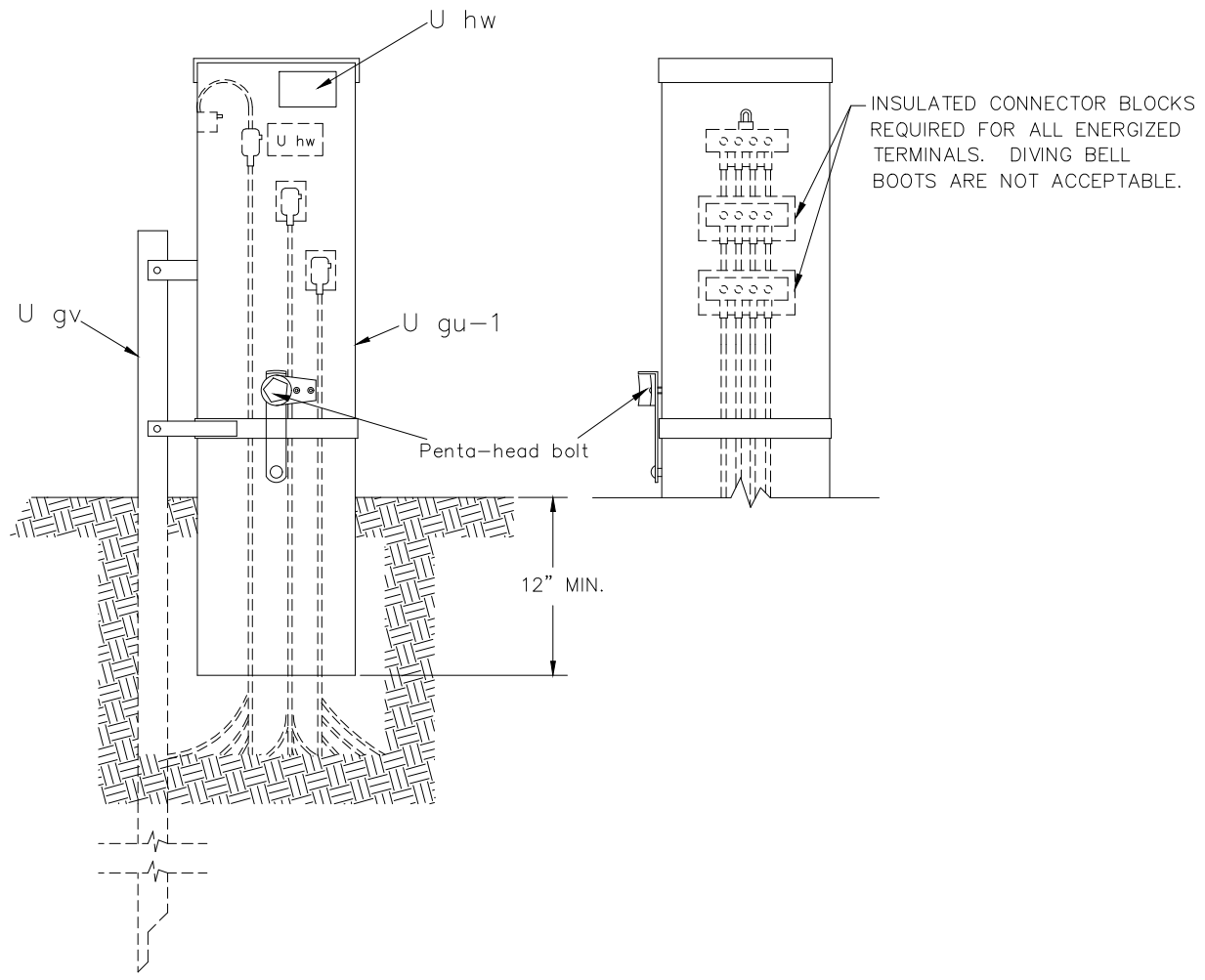
Ufz

TRANSFORMER CONNECTOR BLOCKS

NOTE: Insulated covers are not shown.

SECONDARY CONNECTOR BLOCKS

ITEM	QTY.	MATERIAL		
Ufz		Transformer connector blocks,		
		as required		
Ugp		Connector blocks, as required	Sept. - 18	UJ1, UJ2
			FDEC	



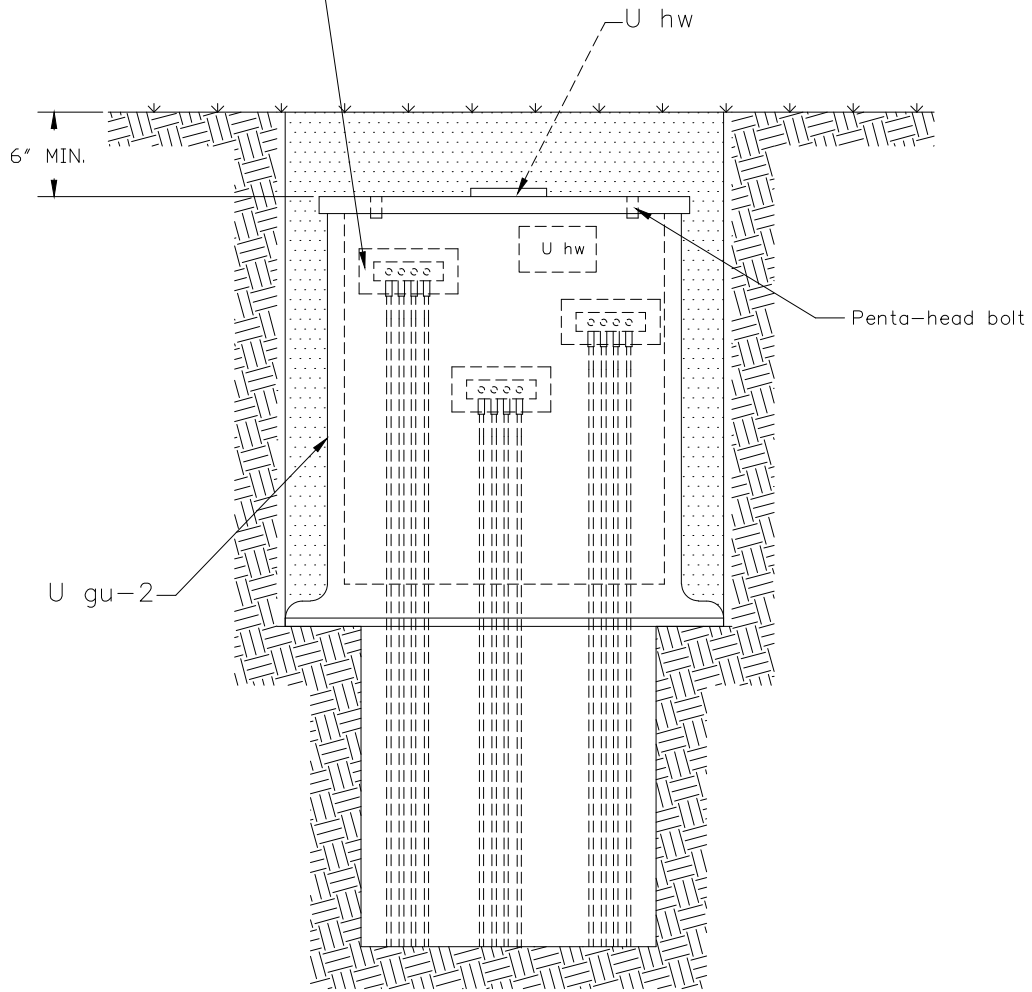
NOTES:

1. INSTALL "WARNING" SIGN ON OUTSIDE OF PEDESTAL.
2. ITEM Ugv OPTIONAL – SEE PEDESTAL MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
3. ALL PEDESTALS SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL SAFETY CODE (NESC).

ITEM	QTY.	MATERIAL
Ugu-1	1	Power pedestal
Ugv	1	Stake (if necessary)
Uhw	1	Sign, "WARNING" (outside pedestal)
Uhw	1	Sign, "DANGER" (inside pedestal)

SECONDARY PEDESTAL UNDERGROUND CABLE		
Sept. – 18		
FDEC		UK5

INSULATED SUBMERSIBLE CONNECTOR BLOCKS
 REQUIRED FOR ALL TERMINALS.
 DIVING BELL BOOTS ARE NOT ACCEPTABLE.



NOTES:

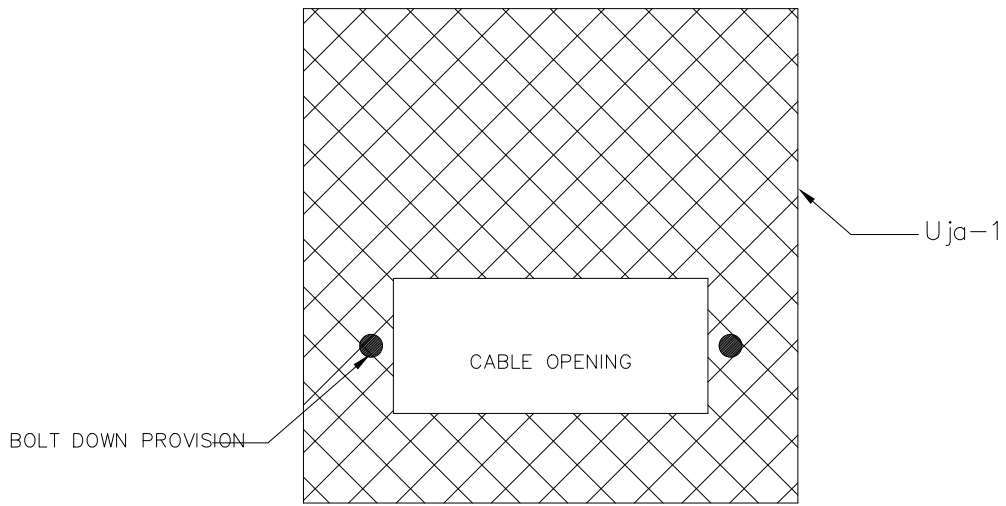
1. OWNER TO SPECIFY WHETHER UNIT IS TO BE BURIED AS SHOWN OR INSTALLED FLUSH WITH FINAL GRADE. METAL COVER IF USED SHOULD BE GROUNDED.
2. ALL PEDESTALS SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL SAFETY CODE (NESC).

SECONDARY CABLE
 UNDERGROUND CABLE

ITEM	QTY.	MATERIAL
U gu-2	1	Power pedestal, buried type
U hw	1	Sign, "DANGER" (inside pedestal)
U hw	1	Sign, "WARNING" (outside pedestal)

Sept. - 18
 FDEC

UK6



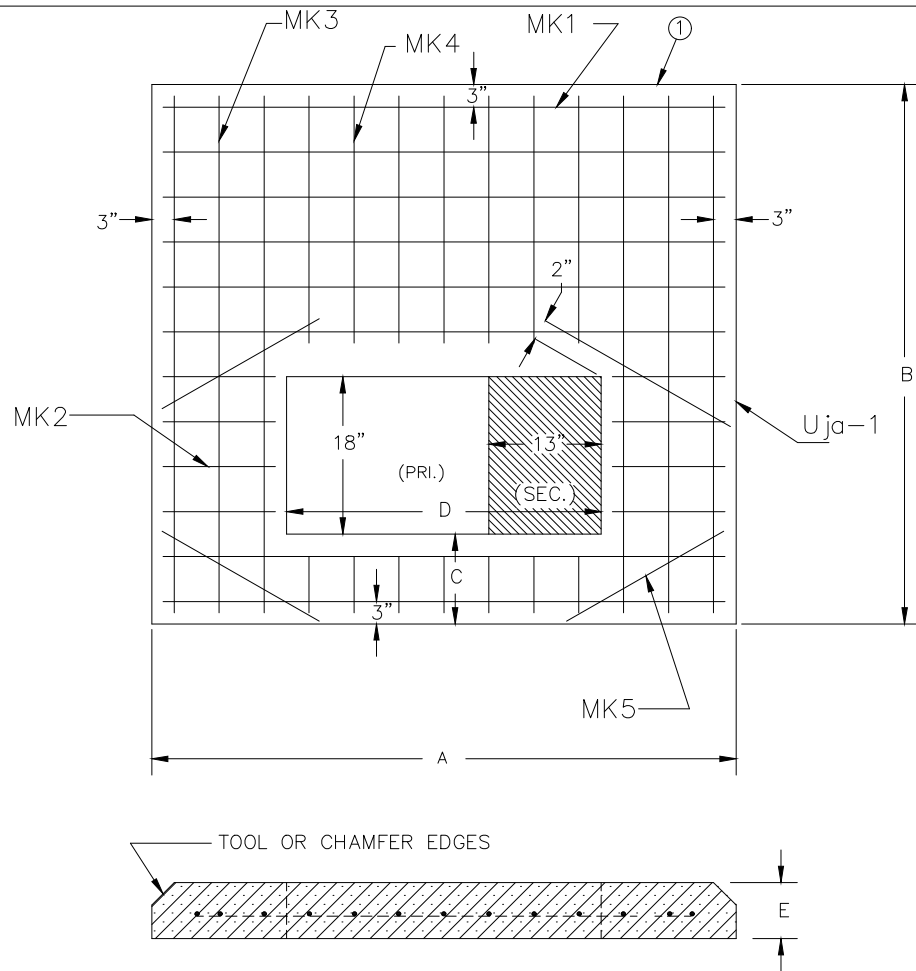
NOTES:

1. PAD ASSEMBLIES INCLUDE SITE PREPARATION, BEDDING AND DRAINAGE.
2. EQUIPMENT SHALL BE SECURED TO PAD IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
3. CABLE OPENING AND PAD DIMENSIONS SHALL BE AS REQUIRED.

UNIT DESIGNATION:

UM1-5C	CONCRETE
UM1-5NC	NON-CONCRETE

PAD ASSEMBLIES		
Sept. - 18		UM1 - 5C, UM1 - 5NC
FDEC		

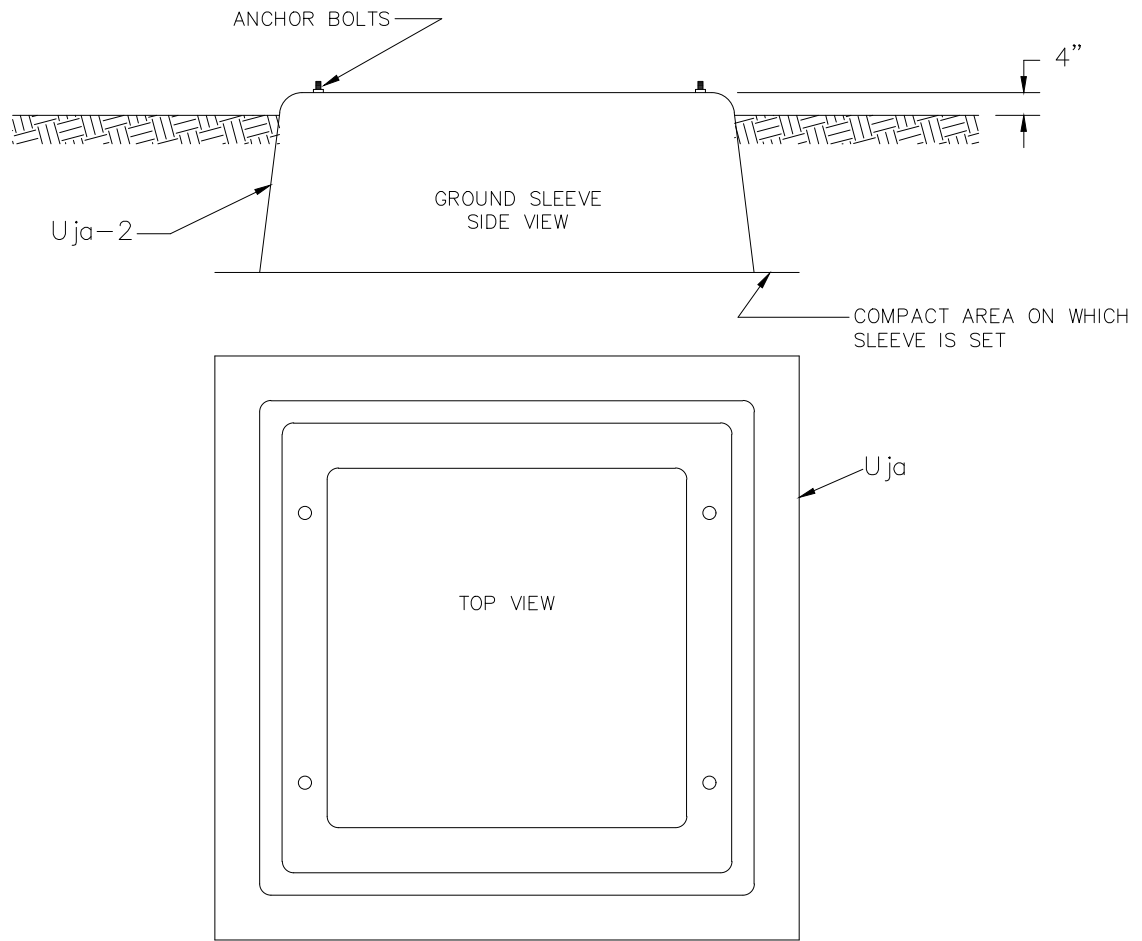


PAD	3-PHASE TRANSF. kVA	DIMENSIONS IN INCHES					REINFORCING BARS				
		A	B	C	D	E	MK1	MK2	MK3	MK4	MK5
#1	75, 112 1/2, 150, 225, 300, 500	76	62	10	42	6	7 #4 70"	4 #4 10"	6 #4 57"	6 #4 28"	4 #4 26"
#2	750, 1000 1500, 2500	104	100	10	54	8	12 #4 98"	6 #4 19"	6 #4 94"	7 #4 66"	4 #4 29"

NOTES:

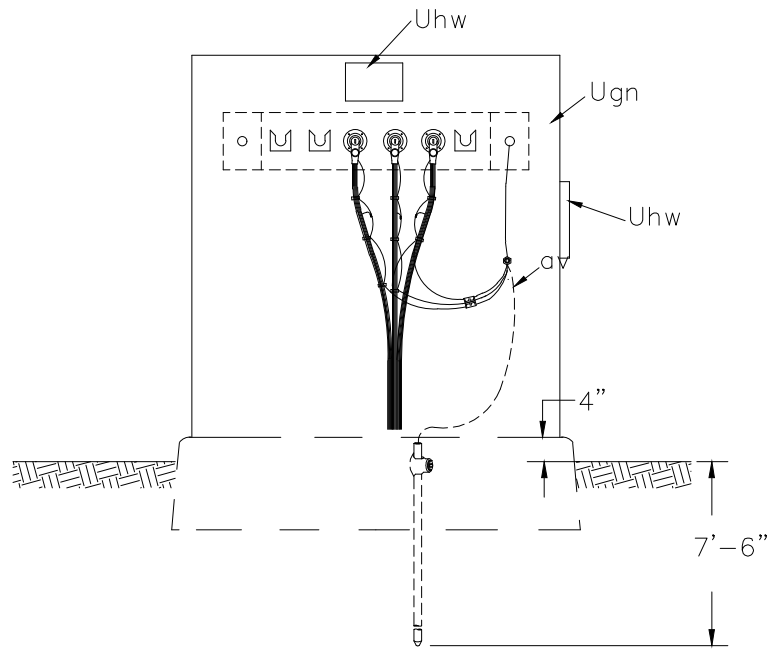
1. CONCRETE TESTING, 3000 POUNDS MIN. PER SQUARE INCH; 4% TO 6% ENTRAINED AIR, 3/4" MAXIMUM SIZE AGGREGATE.
2. REINFORCING STEEL, ATSM-A615 GRADE 60, PLACE APPROX. 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.
3. MINIMUM CONCRETE COVER OVER REINFORCING STEEL 2 INCHES UNLESS NOTED.
4. WOOD FLOAT FINISH, LEAVING NO DEPRESSIONS.

THREE PHASE TRANSFORMER CONCRETE PADS		
Sept. - 18	3 - PHASE PRIMARY 12.47/7.2 kV	UM1 - 6C
FDEC		



UNIT DESIGNATIONS:
 UM1-7C CONCRETE
 UM1-7NC NON-CONCRETE

GROUND SLEEVE ASSEMBLY		
Sept. - 18		UM1 - 7C, UM1 - 7NC
FDEC		



NOTE:

1. THE FOLLOWING UNITS/ASSEMBLIES ARE NOT PART OF THIS UNIT. SPECIFY SEPARATELY:
 - A. MULTIPOINT TERMINATION AND OTHER ACCESSORIES
 - B. FUSED OR NON-FUSED LOADBREAK ELBOWS
 - C. GROUNDING ASSEMBLY UM48-1 OR OTHER
 - D. PAD OR SLEEVE (IF REQUIRED)

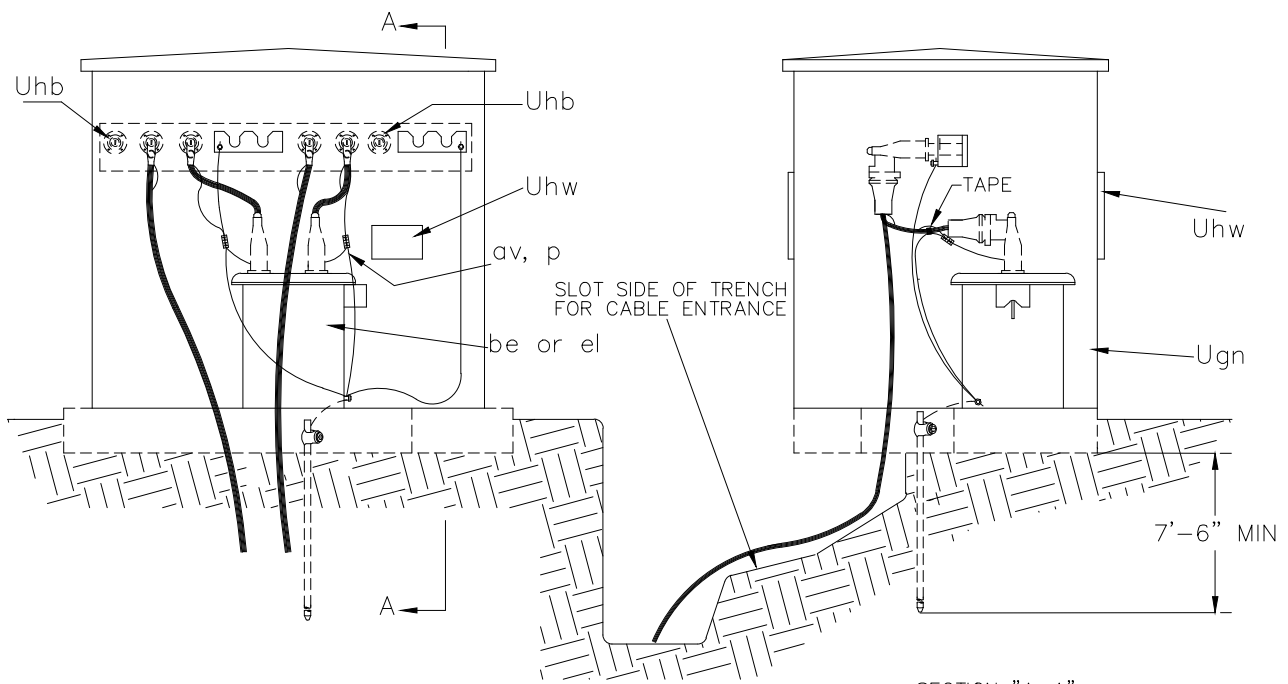
2. INSTALL "WARNING" SIGN ON OUTSIDE SURFACE OF ENCLOSURE AND "DANGER" SIGN INSIDE ENCLOSURE.

3. PROVIDE SUFFICIENT PRIMARY NEUTRAL PIGTAIL AND CABLE SLACK TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND.

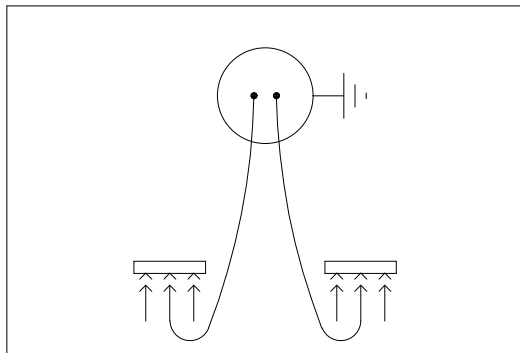
ITEM	QTY.	MATERIAL
p		Connectors, as required
av		Jumpers, as required
Ugn	1	Enclosure
Uhw	2	Signs, "DANGER" and "WARNING"
Ugc		Cable riser shield, length as required

SINGLE PHASE
SECTIONALIZING ENCLOSURE

Sept. - 18	1 - PHASE PRIMARY 12.47/7.2 kV	UM3 - 14
FDEC		



DESIGNATE AS:
 RECLOSER ASSEMBLY UM3-44
 SECTIONALIZER ASSEMBLY UM3-45



WIRING DIAGRAM

NOTES:

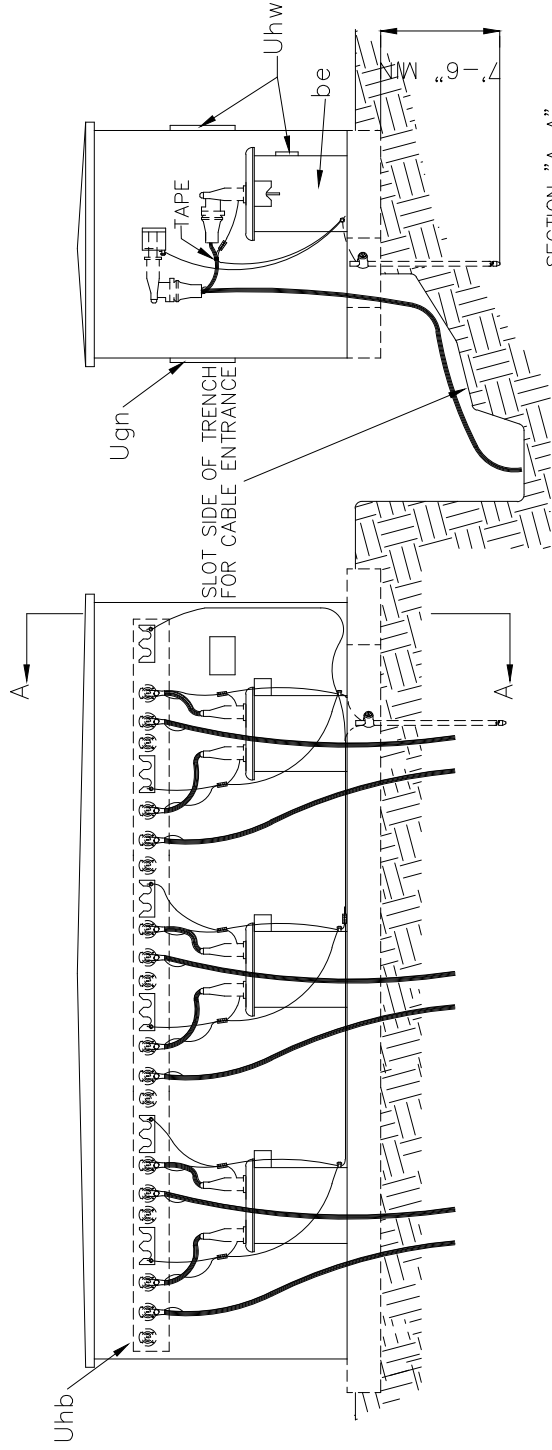
1. THE FOLLOWING UNITS/ASSEMBLIES ARE NOT PART OF THIS UNIT. SPECIFY SEPARATELY:
 A. MULTIPoint TERMINATIONS AND OTHER ACCESSORIES
 B. LOADBREAK ELBOWS
 C. GROUNDING ASSEMBLY UM48-1 OR OTHER
 D. PAD ASSEMBLY
2. PROVIDE SUFFICIENT SLACK IN ALL CABLES TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND.
3. ANCHOR RECLOSER AND ENCLOSURE TO PAD.
4. INSTALL "WARNING" SIGN OUTSIDE SURFACE OF ENCLOSURE AND "DANGER" SIGN INSIDE ENCLOSURE.

SINGLE PHASE PAD MOUNTED
 SECTIONALIZER OR RECLOSER

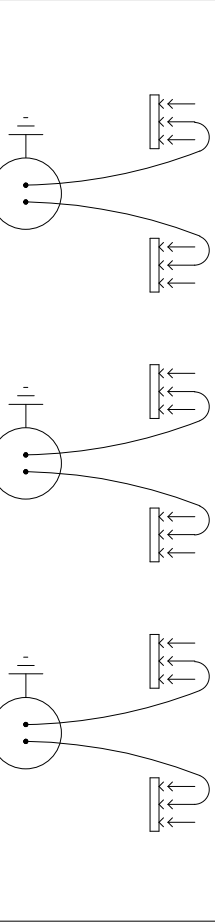
ITEM	QTY.	MATERIAL
p		Connectors, as required
av		Jumpers, as required
be	1	Recloser, oil circuit with bushing wells (UM3-44).
el	1	Sectionalizer, with bushing wells (UM3-45).
Ugn	1	Enclosure
Uhb	2	Insulated covers
Uhw	2	Signs, "DANGER" and "WARNING"

Sept. - 18
 FDEC

1 - PHASE PRIMARY
 12.47/7.2 kV
 UM3 - 44,
 UM3 - 45



SECTION "A-A"



WIRING DIAGRAM

NOTES:

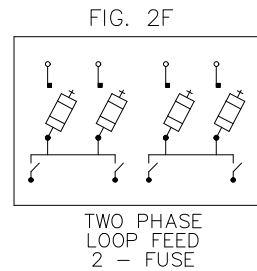
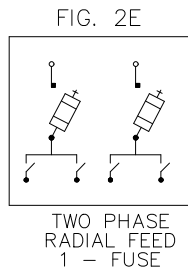
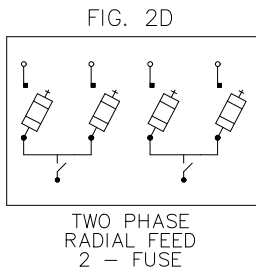
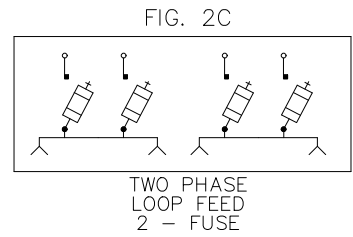
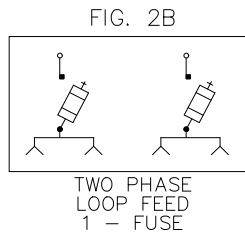
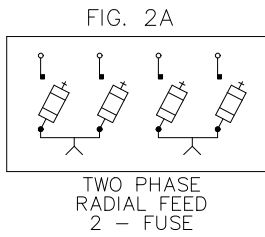
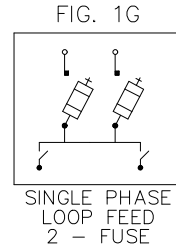
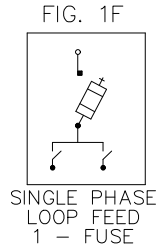
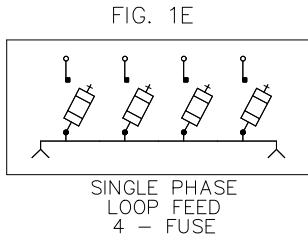
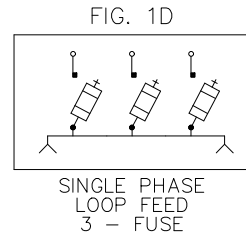
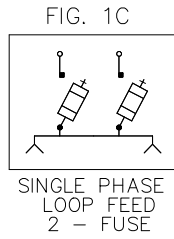
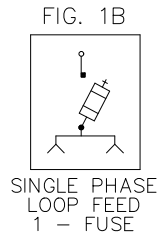
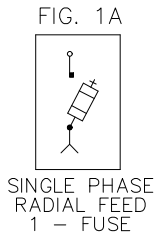
1. THE FOLLOWING UNITS/ASSEMBLIES ARE NOT PART OF THIS UNIT. SPECIFY SEPARATELY:
 - A. MULTIPoint TERMINATIONS AND OTHER ACCESSORIES
 - B. LOADBREAK ELBOWS
 - C. GROUNDING ASSEMBLY UM48-1 OR OTHER
 - D. PAD ASSEMBLY
2. PROVIDE SUFFICIENT SLACK IN ALL CABLES TO PERMIT READY DISCONNECTION OF ELBOW AND MOUNTING ON PARKING STAND.
3. ANCHOR RECLOSER AND ENCLOSURE TO PAD.
4. INSTALL "WARNING" SIGN OUTSIDE SURFACE OF ENCLOSURE AND "DANGER" SIGN INSIDE ENCLOSURE.

ITEM	QTY.	MATERIAL
be	3	Recloser, oil circuit with bushing wells
Ugn	1	Enclosure
Uhb	6	Insulated covers
Uhw	2	Signs, "DANGER" and "WARNING"

THREE, SINGLE PHASE
PAD MOUNTED RECLOSERS

Sept. - 18 3 - PHASE PRIMARY
FDEC 12.47/7.2 kV

UM3-46



— FUSE

• — TERMINATIONS CAN BE WITH ELBOWS, STRESS CONES OR TERMINATORS

^ — LOADBREAK ELBOW LINE SWITCHING

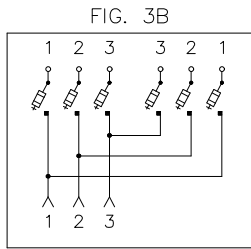
— SINGLE POLE SOLID BLADE SWITCHING

SINGLE POLE SWITCHING
200 AMP FUSE ENCLOSURE
INSTALLATION WIRING DIAGRAMS
(SINGLE PHASE AND TWO PHASE)

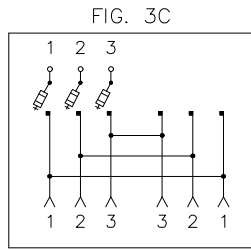
Sept. - 18
FDEC

2 - PHASE PRIMARY
12.47/7.2 kV

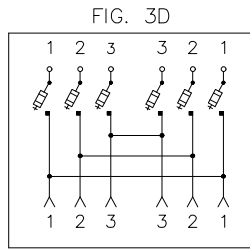
UM3E - 1,
UM3E - 2



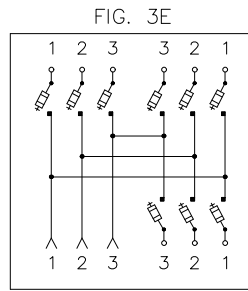
ELBOW SWITCH
2 - FUSE



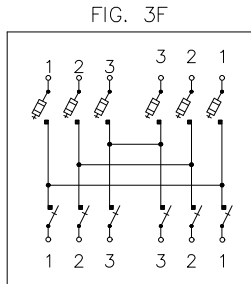
ELBOW SWITCH
1 - FUSE



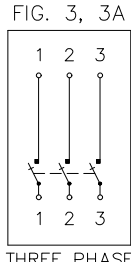
ELBOW SWITCH
2 - FUSE



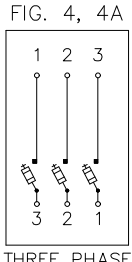
ELBOW SWITCH
3 - FUSE



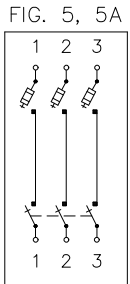
SINGLE POLE SWITCH
2 - FUSE



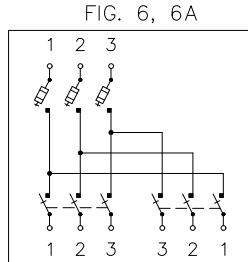
THREE PHASE
SWITCH



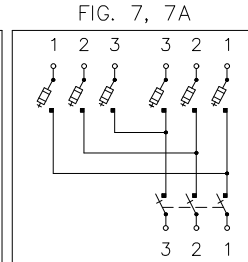
THREE PHASE
SINGLE POLE
SWITCH OR
FUSE



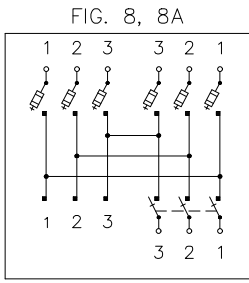
THREE PHASE
SWITCH
1 - FUSE



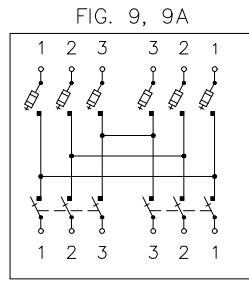
THREE PHASE
SWITCHES
1 - FUSE



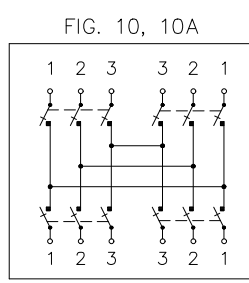
THREE PHASE
SWITCH
2 - FUSE



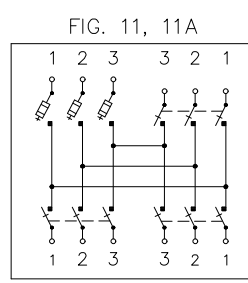
THREE PHASE SWITCHES
2 - FUSE
1 - TERMINAL



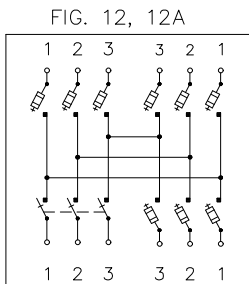
THREE PHASE SWITCHES
2 - FUSES



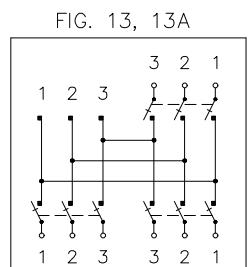
THREE PHASE SWITCHES



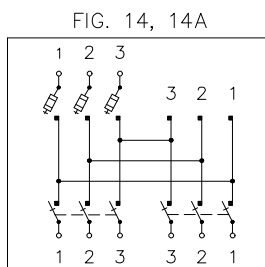
THREE PHASE SWITCHES
1 - FUSE



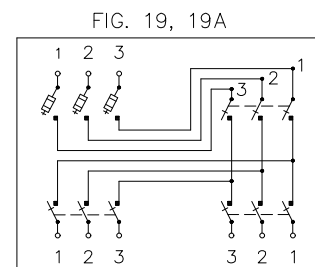
THREE SWITCHES
3 - FUSES



THREE PHASE SWITCHES
1 - TERMINAL



THREE PHASE SWITCHES
1 - FUSE
1 - TERMINAL



THREE PHASE SWITCHES
THREE PHASE SWITCHED / FUSE TAP

EXAMPLE:

FIG. 3 = 600 AMP MAIN
LINE SWITCH

FIG. 3A = 200 AMP MAIN
LINE SWITCH

▭ - FUSE

• - TERMINATIONS CAN BE
WITH ELBOWS, STRESS
CONES OR TERMINATORS

△ - LOADBREAK ELBOW LINE
SWITCHING

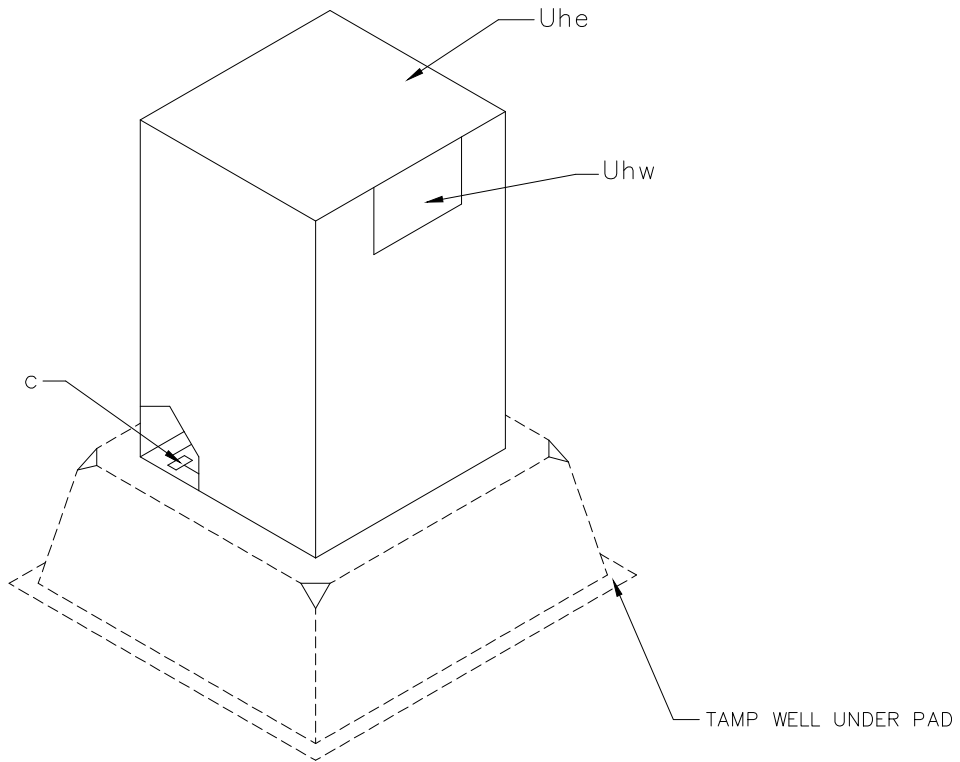
FUSE ENCLOSURE (200 - 600 AMP)
WIRING DIAGRAMS
(THREE PHASE)

Sept. - 18

FDEC

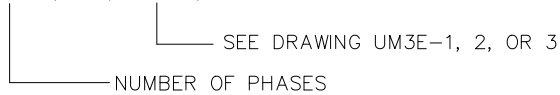
3 - PHASE PRIMARY
12.47/7.2 kV

UM3E - 3



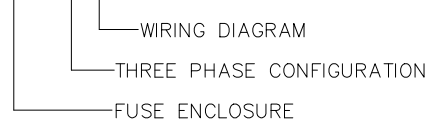
SPECIFICATION NUMBERING CODES:

UM3E-(1,2 or 3) - (FIG. NO.)



EXAMPLE:

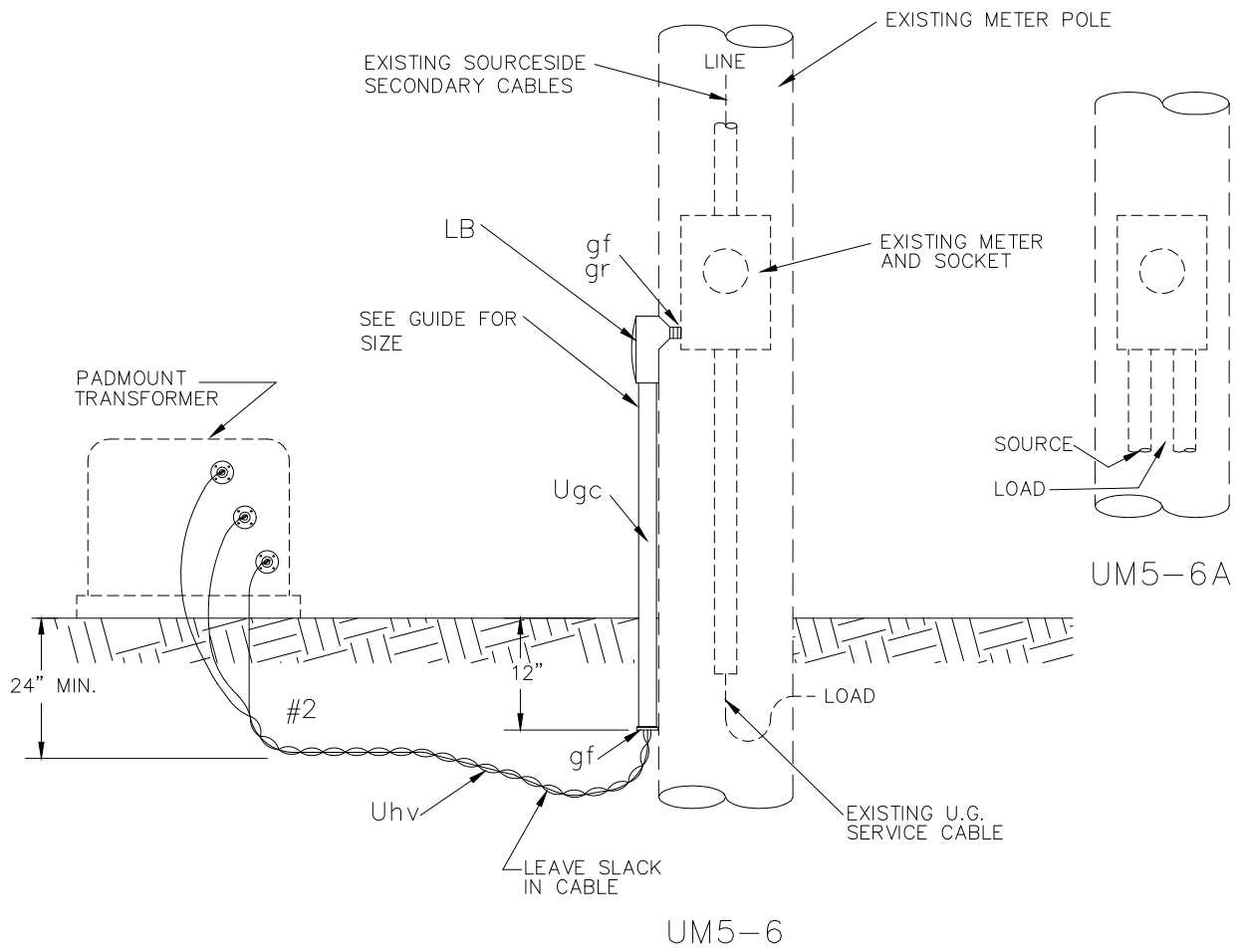
UM3E-3-9



NOTES:

1. PAD OR GROUND SLEEVE LOAD BREAK ELBOWS, STRESS CONES, FUSES OR SWITCH BLADES ARE NOT PART OF THIS ASSEMBLY. THEY SHOULD BE SPECIFIED SEPARATELY ON THE STAKING SHEETS.
2. TAMP WELL UNDER SLEEVE. LEAVE SLACK COIL OF CABLE IN GROUND SLEEVE.
3. PLACE 6" OF FILL AGAINST INSIDE EDGE OF GROUND SLEEVE.
4. ON DEAD FRONT FUSE ENCLOSURES USE GROUNDING ASSEMBLY TO BE SPECIFIED SEPARATELY.
5. TOP OF GROUND SLEEVE TO BE INSTALLED 3" ABOVE GROUND LEVEL.
6. INSTALL "DANGER" SIGN ON EQUIPMENT INSIDE ENCLOSURE. INSTALL "WARNING" SIGN ON OUTSIDE SURFACE OF ENCLOSURE.
7. GROUND SLEEVES ARE SPECIFIED.

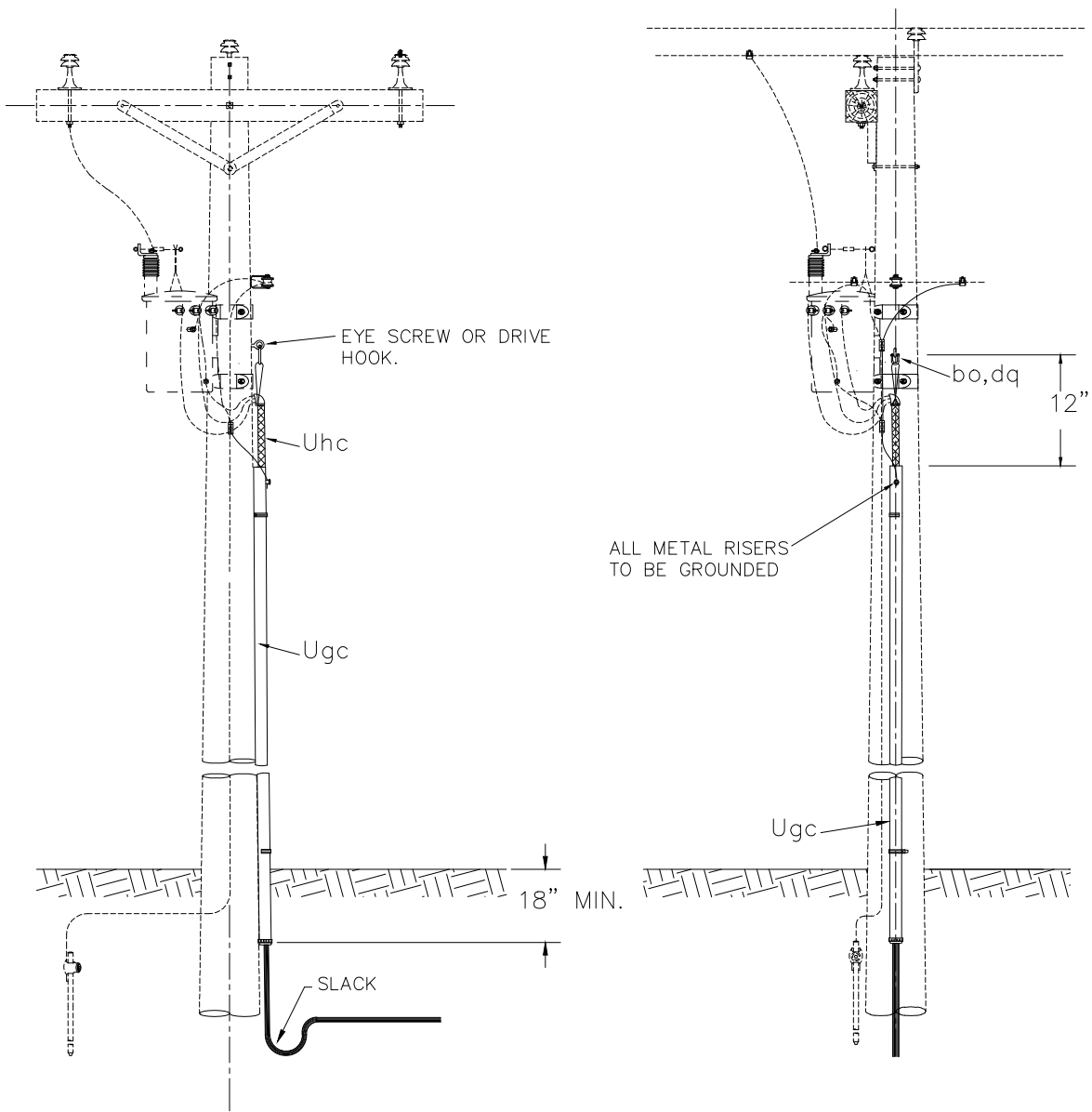
ITEM	QTY.	MATERIAL			
C		Bolt, machine, as necessary	FUSE / SWITCH ENCLOSURE INSTALLATION		
Uhe	1	Enclosure as specified			
Uhw	2	Signs, "DANGER" and "WARNING"			
			Sept. - 18		
			FDEC		UM3E



NOTES:

1. DISCONNECT SOURCESIDE CONDUCTORS IN METER SOCKET.
2. CONNECT NEW CABLE TO SOURCESIDE OF METER SOCKET.
3. SECONDARY CABLE, UNIT Uhv, SPECIFIED ON SEPARATE UNIT.
4. IF UNIT UM5-6A IS SPECIFIED, EXISTING METER SOCKET AND TYPE "LB" CONDUIT FITTING ARE REPLACED BY A METER SOCKET WITH TWO CONDUIT KNOCKOUTS ON BOTTOM SIDE.

ITEM	QTY.	MATERIAL		
gf	2	Bushings, insulated	SECONDARY CABLE TERMINAL TO METER BASE	
gr	2	Locknut		
	1	Type "LB" conduit fitting		
	1	conduit short nipple, with bushing		
Ugc		Conduit, as required	Sept. - 18	UM5 - 6, UM5 - 6A
Uhv		Cable, underground, 600 V, as required	FDEC	



NOTES:

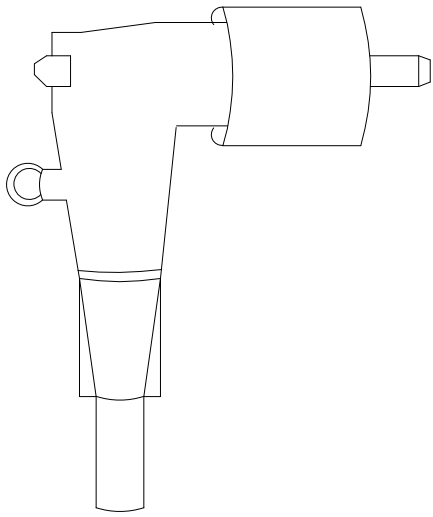
1. ALLOW MINIMUM CABLE SLACK OF 24" AT BOTTOM OF RISER.

ITEM	QTY.	MATERIAL
bo		Anchor, shackle. Do not use if drive hook is used.
dq	1	Eye screw, elliptical or drive hook.
Ugc	1	Cable riser shield. Length as required.
Uhc	1	Cable support.

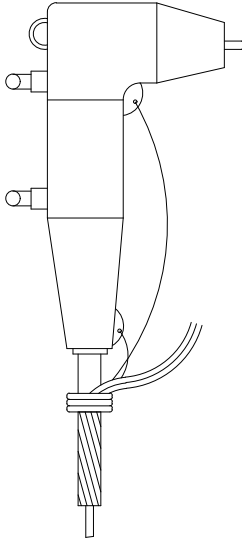
Sept. - 18
FDEC

SECONDARY CABLE TERMINAL POLE

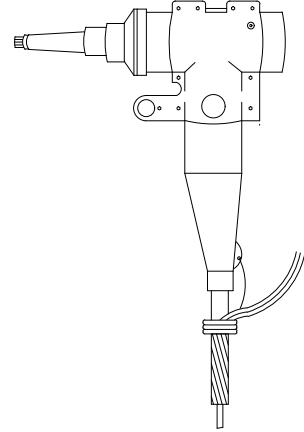
UM5



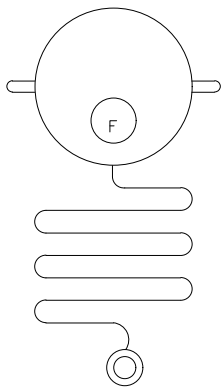
UM6-1 Uhp
LOAD BREAK ELBOW
(200 A)



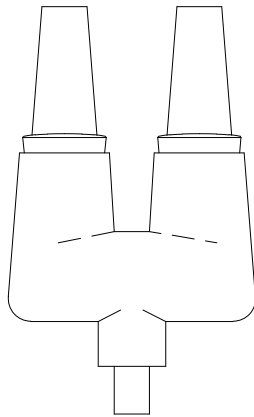
UM6-2 Uhp
FUSED ELBOW TERMINATION
(200 A)



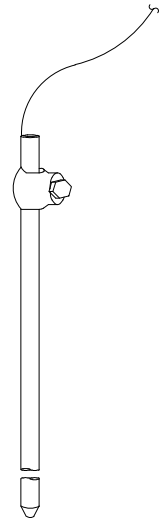
UM6-3 Uhb
DEAD BREAK TERMINATION
(600 A)



UM6-4 Ugo
FAULT INDICATOR



UM6-5 Uhb
FEED THROUGH LOAD BREAK INSERT



UM6-6 ai, aj, cj
GROUND ROD ASSEMBLY

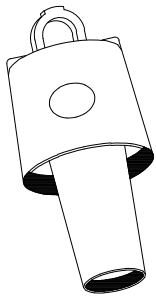
MICELLANEOUS ACCESSORIES

Sept. - 18

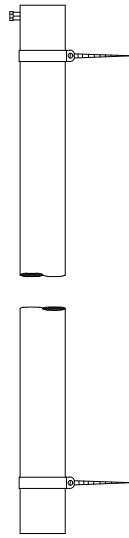
FDEC

PAGE 1 OF 8

UM6 - 1



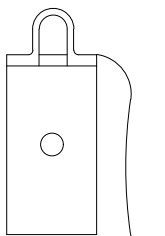
UM6-7 Uhb
BUSHING WELL PLUG
(200 A)



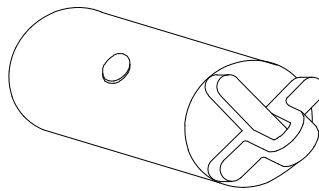
UM6-8 Ugc
RISER SHIELD (U GUARD)



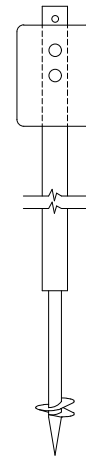
UM6-9 Ugc
CONDUIT CABLE RISER



UM6-10 Uhb
INSULATED PROTECTIVE CAP
(200 A)



UM6-11 Uhb
INSULATED PROTECTIVE CAP
(600 A)



UM6-12 Uhx
CABLE MARKER ASSEMBLY

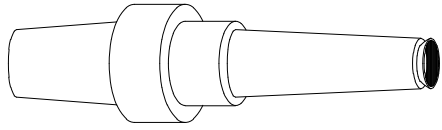
MISCELLANEOUS ACCESSORIES

Sept. - 18

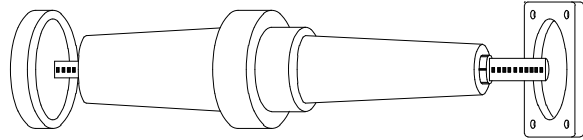
PAGE 2 OF 8

FDEC

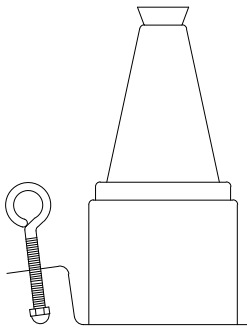
UM6 - 2



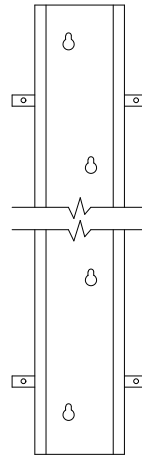
UM6-13 Uhb
LOAD BREAK INSERT
(200 A)



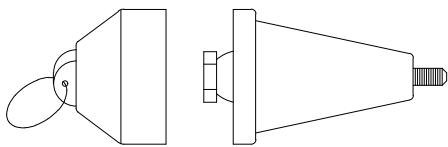
UM6-14 Uhb
DEADBREAK INSERT
(600 A)



UM6-15 Uhq
STAND-OFF INSULATOR
(200 A)



UM6-18
BACKING PLATE FOR
U-GUARD RISER SHIELD



UM6-17 Uhb
INSULATING PLUG
600 AMP CONNECTOR

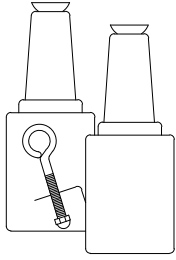
MISCELLANEOUS ACCESSORIES

Sept. - 18

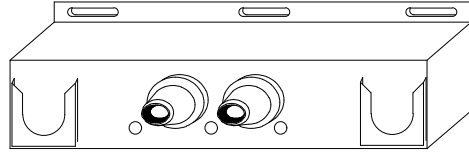
PAGE 3 OF 8

FDEC

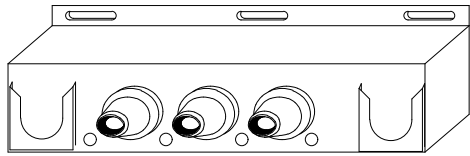
UM6 - 3



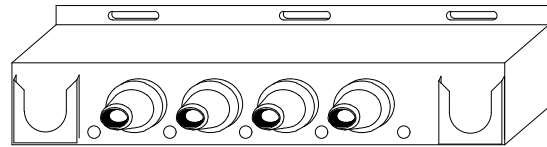
UM6-19 Uhq
STAND-OFF INSULATOR
FEED THROUGH
(200 A)



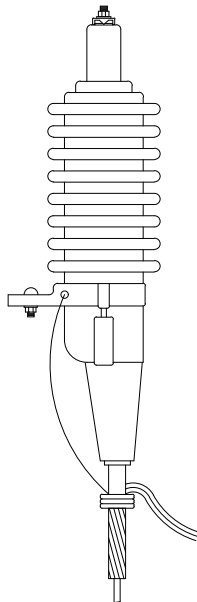
UM6-20 Uhq
TWO POINT JUNCTION
(200 A)



UM6-21 Uhq
THREE POINT JUNCTION
(200 A)



UM6-22 Uhq
FOUR POINT JUNCTION
(200 A)



UM6-24 Ugk
OUTDOOR TERMINATION

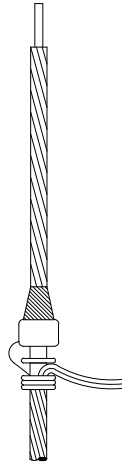
MISCELLANEOUS ACCESSORIES

Sept. - 18

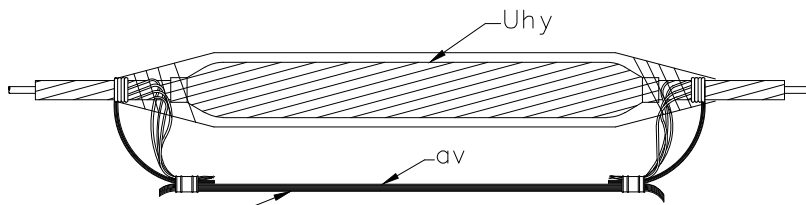
PAGE 4 OF 8

FDEC

UM6 - 4



UM6-26 U_{gk}
INDOOR STRESS RELIEF CONE



CONCENTRIC NEUTRAL
OR
EQUIVALENT EXTENSION

UM6-28 U_{hy}
IN LINE PRIMARY SPLICE
(FOR JACKETED CABLE)

NOTES:

1. Jacketed cable restoration and termination sealing kits (items U_{hf}) are available for resealing concentric neutral wires after installation of splices, elbows, and outdoor terminations; also for connecting a grounding lead wire to the concentric neutral wires and resealing the jacket.

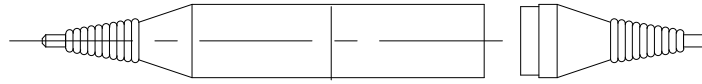
MISCELLANEOUS ACCESSORIES

Sept. - 18

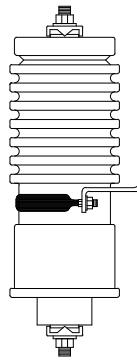
PAGE 5 OF 8

FDEC

UM6 - 5



UM6-32 U_{gq}
BOOT OR SLEEVE - INSULATED
(600 VOLT)



UM6-33 U_{ae}
SURGE ARRESTER

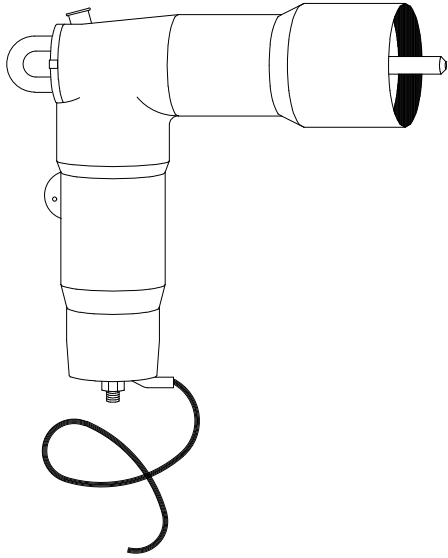
MISCELLANEOUS ACCESSORIES

Sept. - 18

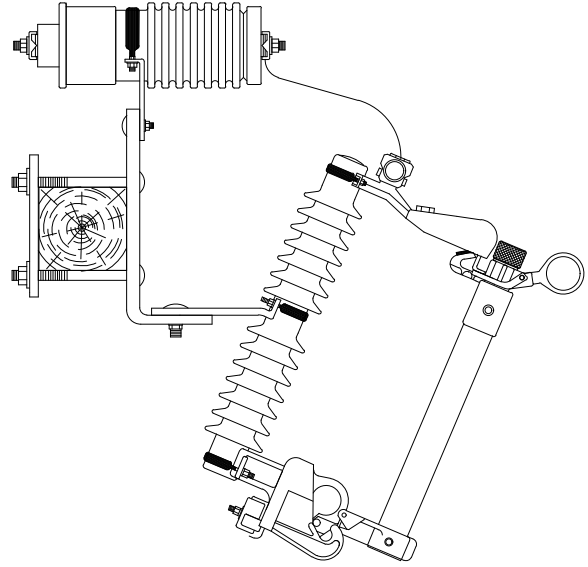
PAGE 6 OF 8

FDEC

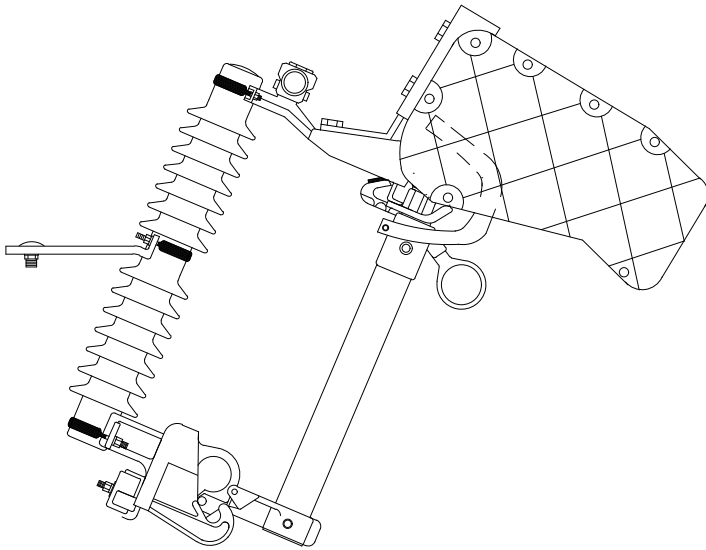
UM6 - 6



UM6-34 Uae
DEAD BREAK ELBOW
SURGE ARRESTER

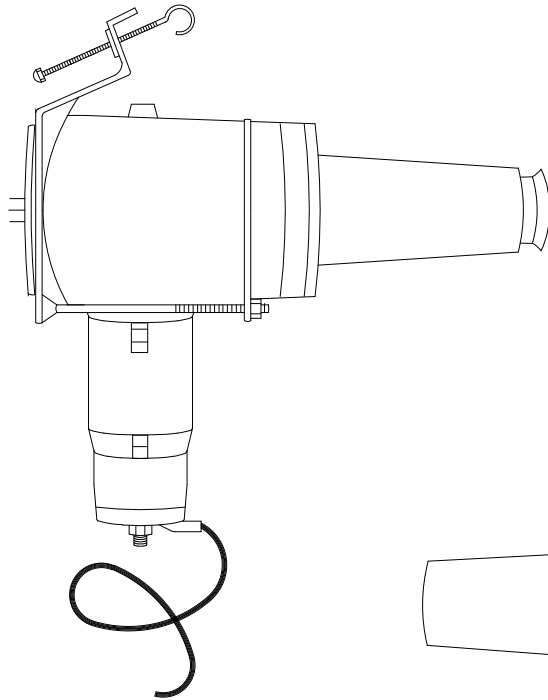


UM6-35 Uax
CUTOUT-ARRESTER COMBINATION

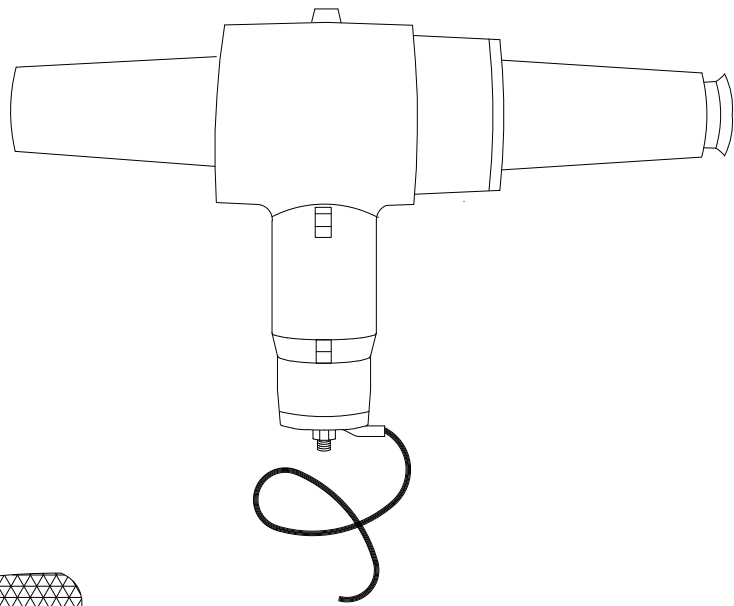


UM6-36 of
LOAD BREAK CUTOUT

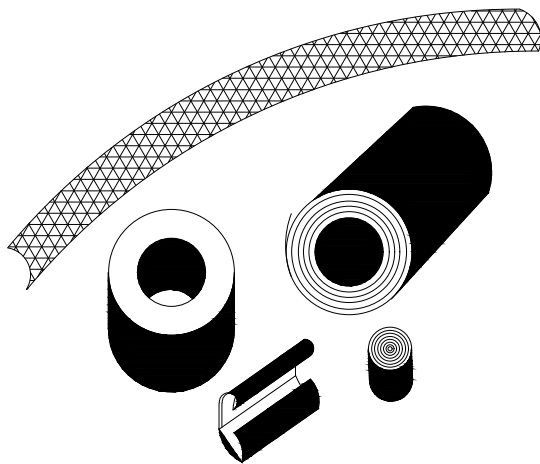
MISCELLANEOUS ACCESSORIES



UM6-37 Uae
PARKING STAND ARRESTER



UM6-38 Uae
BUSHING ARRESTERS



UM6-39 Uhf
JACKETED CABLE GROUNDING KITS

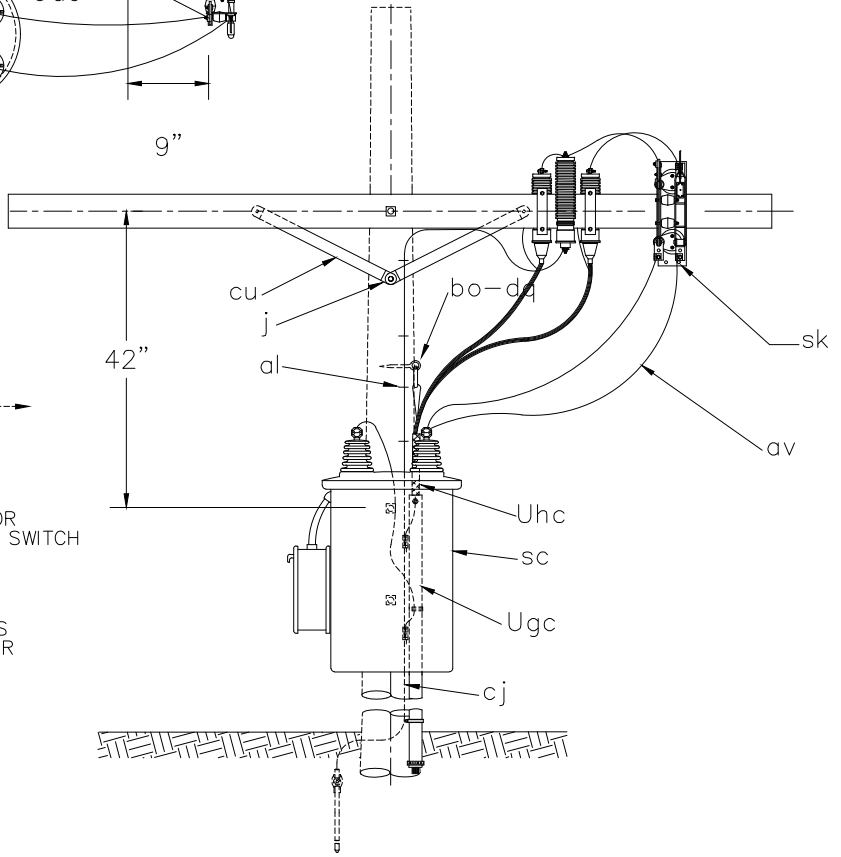
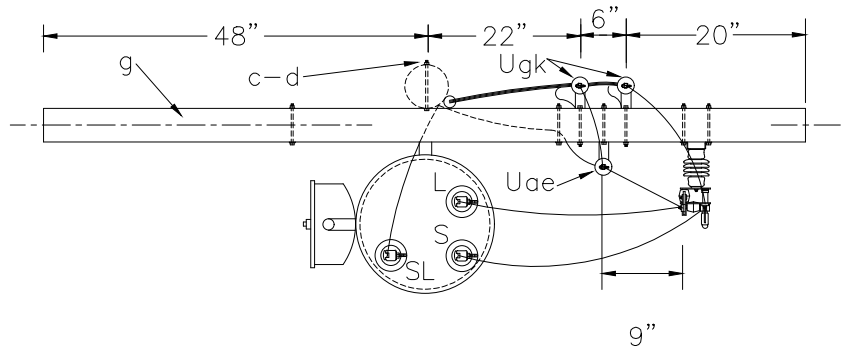
MISCELLANEOUS ACCESSORIES

Sept. - 18

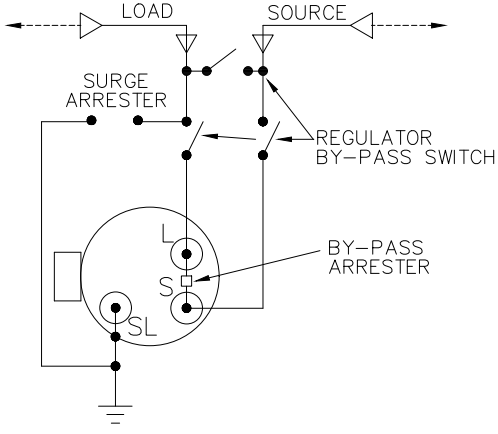
PAGE 8 OF 8

FDEC

UM6 - 8



PLAN VIEW



WIRING DIAGRAM

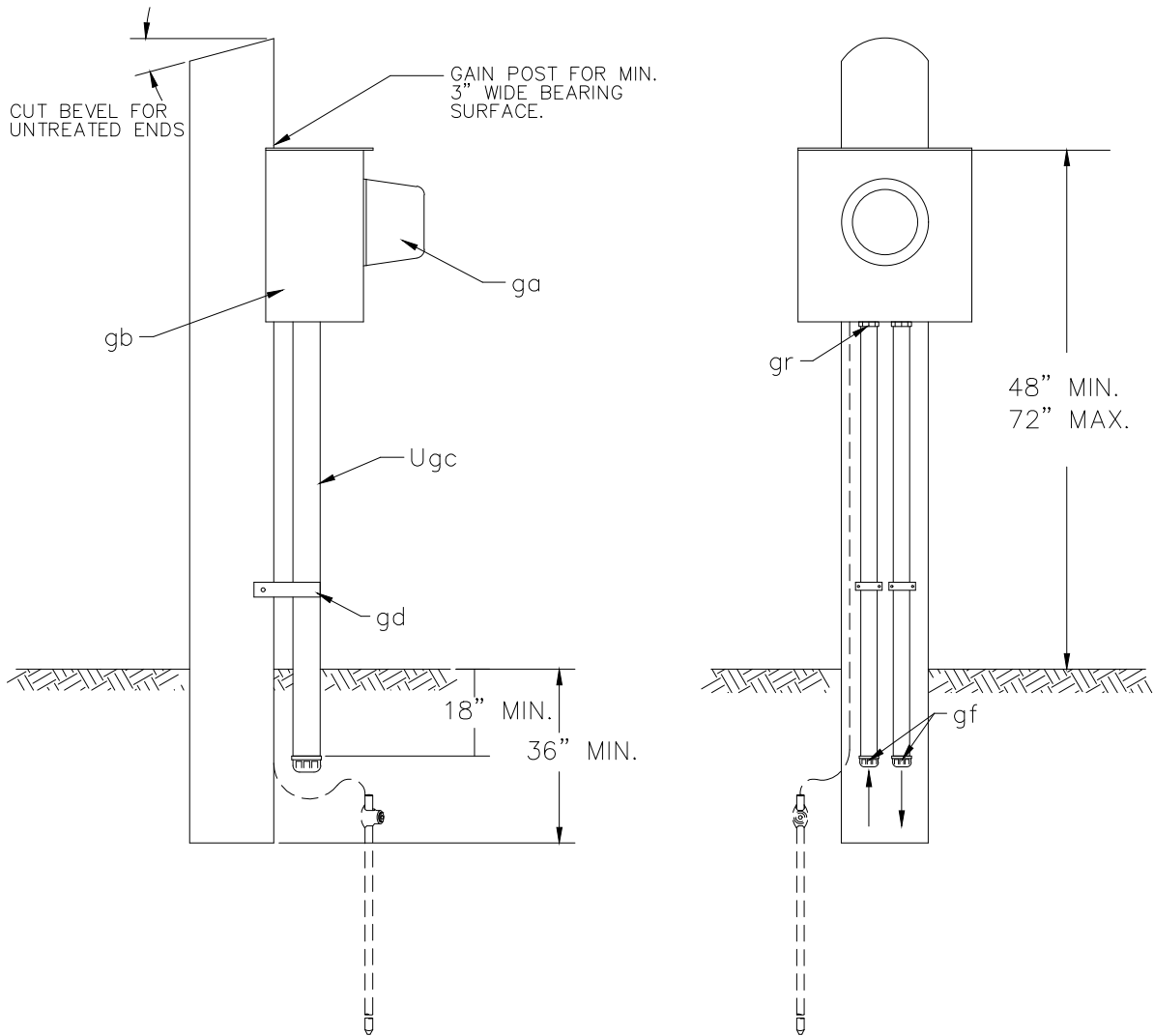
ITEM	QTY.	MATERIAL
c	5	Bolt, machine, 5/8" x required length.
d	6	Washer, square 2 1/4".
g	1	Crossarm, 3 5/8" x 4 5/8" x 8'-0".
i	2	Bolt, carriage, 3/8" x 4 1/2"
j		Screw, lag 1/2" x 4" as required.
p		Connectors, as required.
al		Staples, as required.
av		Jumpers, as required.
bo	1	Anchor, shackle. Omit if drive hook is used.
cj		Ground wire, as required.
cu	2	Brace, wood, 28"
dq	1	Eye screw, elliptical or drive hook.
ek		Locknuts
fn	1	Bracket, cutout, extension.
sc	1	Regulator, step type.
sk	1	Regulator, by-pass switch.
Uae	1*	Surge arrester
Ugc	1	Cable riser shield. Length as required.
Ugk	2	Cable termination.
Uhc	2	Cable support.
Uhd	2	Crossarm mounting bracket.

NOTES:

1. Three of these assemblies may be used for three phase installation.
2. Total arrester lead length must be under 3 feet if possible.
3. All clearances must meet NESC requirements.

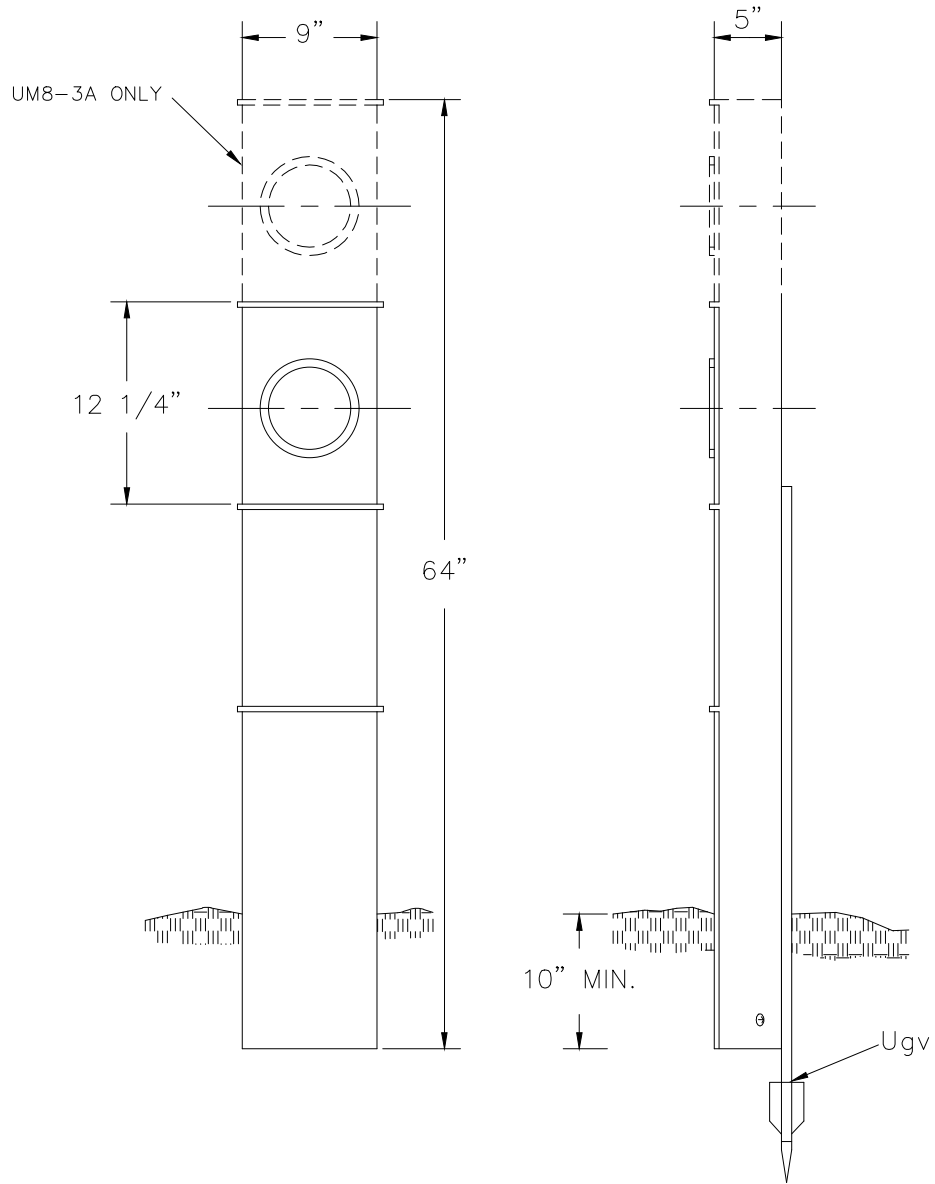
SINGLE PHASE REGULATOR ASSEMBLY WITH BY - PASS SWITCHING FUNCTION UNDERGROUND TO UNDERGROUND

Sept. - 18	1 - PHASE PRIMARY	UM7 - 1
FDEC	12.47/7.2 kV	

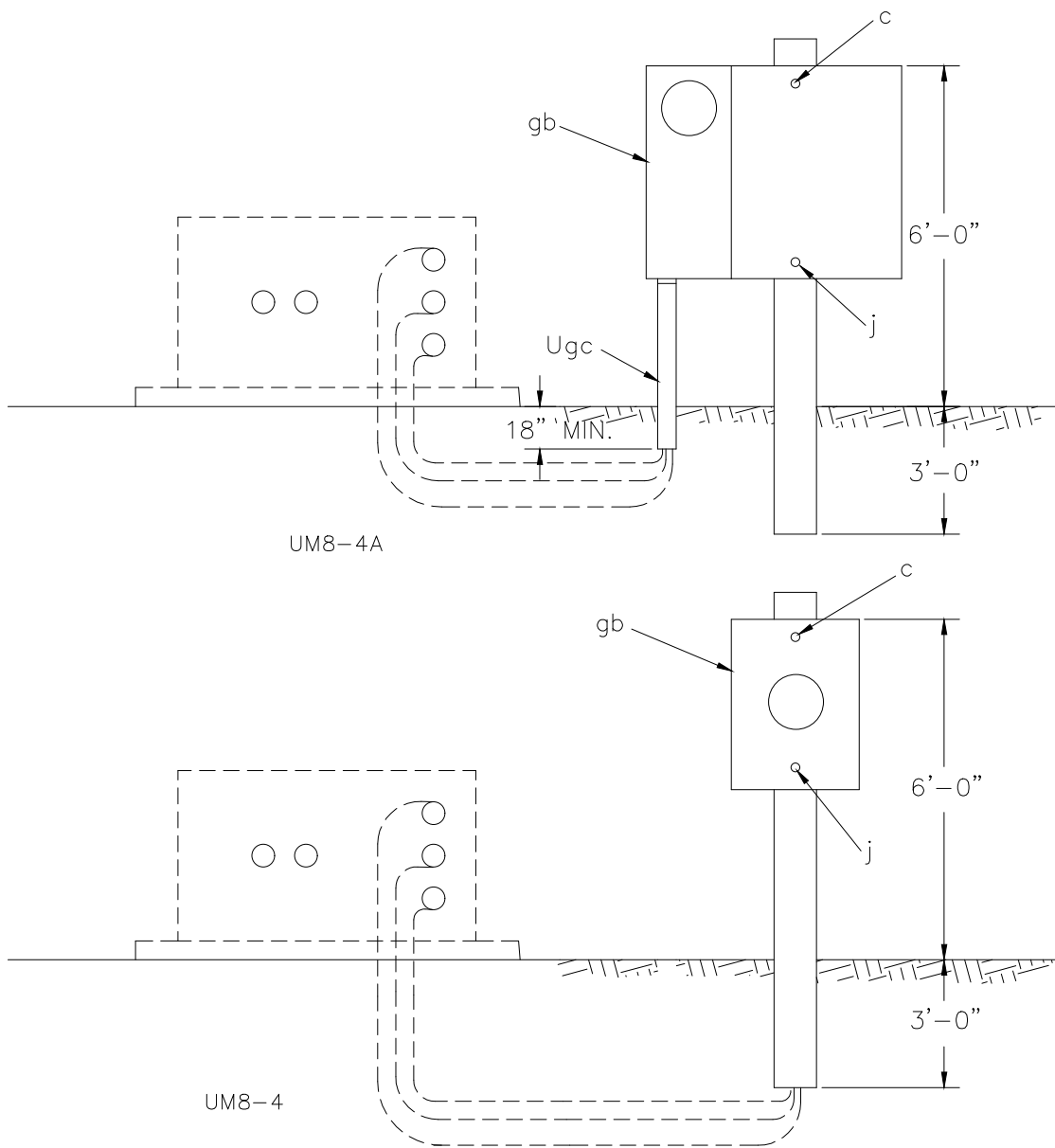


NOTE: MINIMUM POST SIZE SHALL BE FOUR INCHES SQUARE OR IN DIAMETER.

ITEM	QTY.	MATERIAL		
	1	Wood post, approx. 9 ft. long, treated		
ga	1	Meter, as required	WOOD POST METER PEDESTAL	
gb	1	Meter socket		
gd	1	Pipe strap		
gf	2	Insulated bushings, size as required		
gr	2	Conduit locknuts, size as required		
Ugc	2	Conduit, diameter and length as required		
			Sept. - 18	
			FDEC	
				UM8 - 2



ITEM	QTY.	MATERIAL	THROUGH TYPE METER PEDESTAL			
	1	Meter, pedestal, 200 A Main, 200 Amp. per position (UM8-3)				
	1	Meter, pedestal, 400 A Main, 200 Amp. per position (UM8-3A)				
			Sept. - 18			
Ugv	1	Stake, support	FDEC	UM8 - 3		

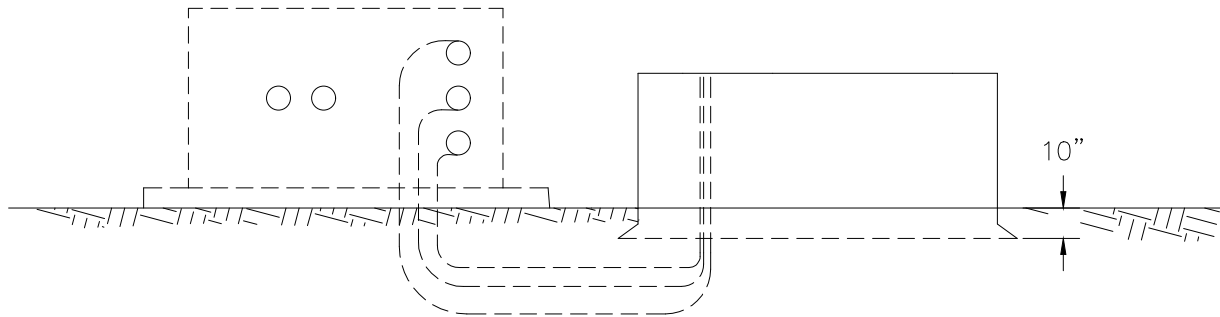


ITEM	QTY.	MATERIAL
		Stub pole, 9'-0"
		Switch, as required
c	1	Machine bolt, 1/2" x 10"
d	1	Washer, square, 2" x 2"
j	1	Lag screw, 1/2" x 4"
ek	1	Locknut, 1/2"
gb		Meter base, as required
Ugc		Conduit, as required

METER & SWITCH INSTALLATION
UNDERGROUND SOURCE

Sept. - 18
FDEC

UM8 - 4,
UM8 - 4A



NOTE:

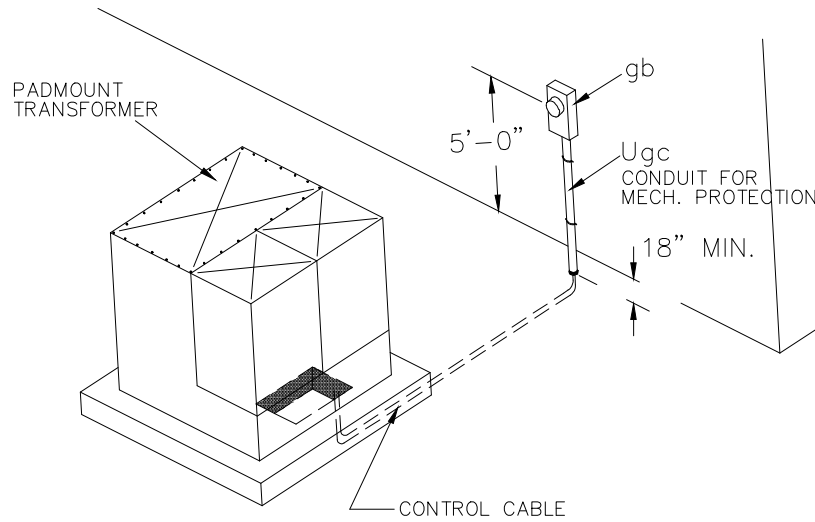
SPECIFY PAD OR SLEEVE UNIT SEPARATELY

ITEM	QTY.	MATERIAL
	1	Switch, as required

PAD MOUNTED SWITCH INSTALLATION UNDERGROUND SOURCE		
Sept. - 18		
FDEC		UM8 - 5

METHOD 1

PREFERRED METHOD FOR INSTALLATION OF METERING IS TO MOUNT METER SOCKET ON BUILDING WALL.



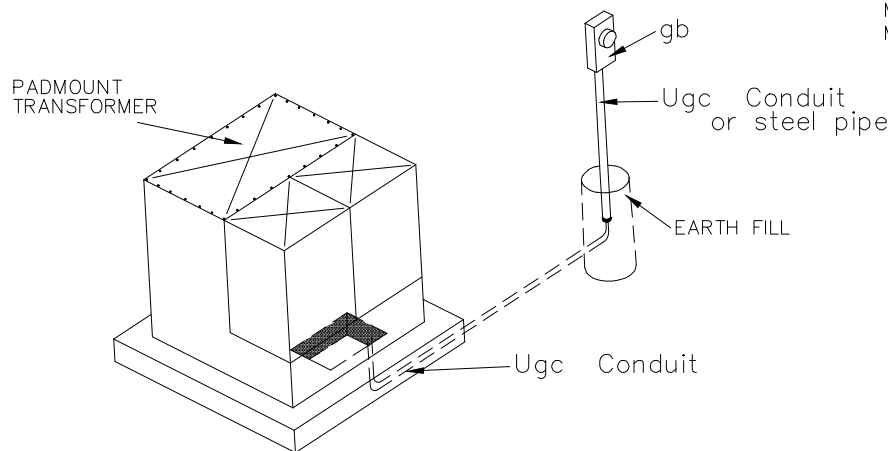
METER HEIGHT SHALL BE 5'-0" TO CENTER OF METER.

METER SOCKET MUST NOT BE ATTACHED DIRECTLY TO PADMOUNTED TRANSFORMER.

CONDUIT SHALL BE USED FOR SECONDARY CONTROL WIRES TO METER SOCKETS.

METHOD 2

METHOD TO USE IF METER CABINET MUST BE MOUNTED FREE STANDING.



METER SOCKET MUST NOT BE ATTACHED DIRECTLY TO PADMOUNTED TRANSFORMER.

4'-0" MINIMUM HEIGHT TO CENTER OF METER.

CONDUIT SHALL BE USED FOR SECONDARY CONTROL WIRES TO METER SOCKET.

NOTE: CT & PT TO BE MOUNTED AS REQUIRED IN TRANSFORMER ENCLOSURE.

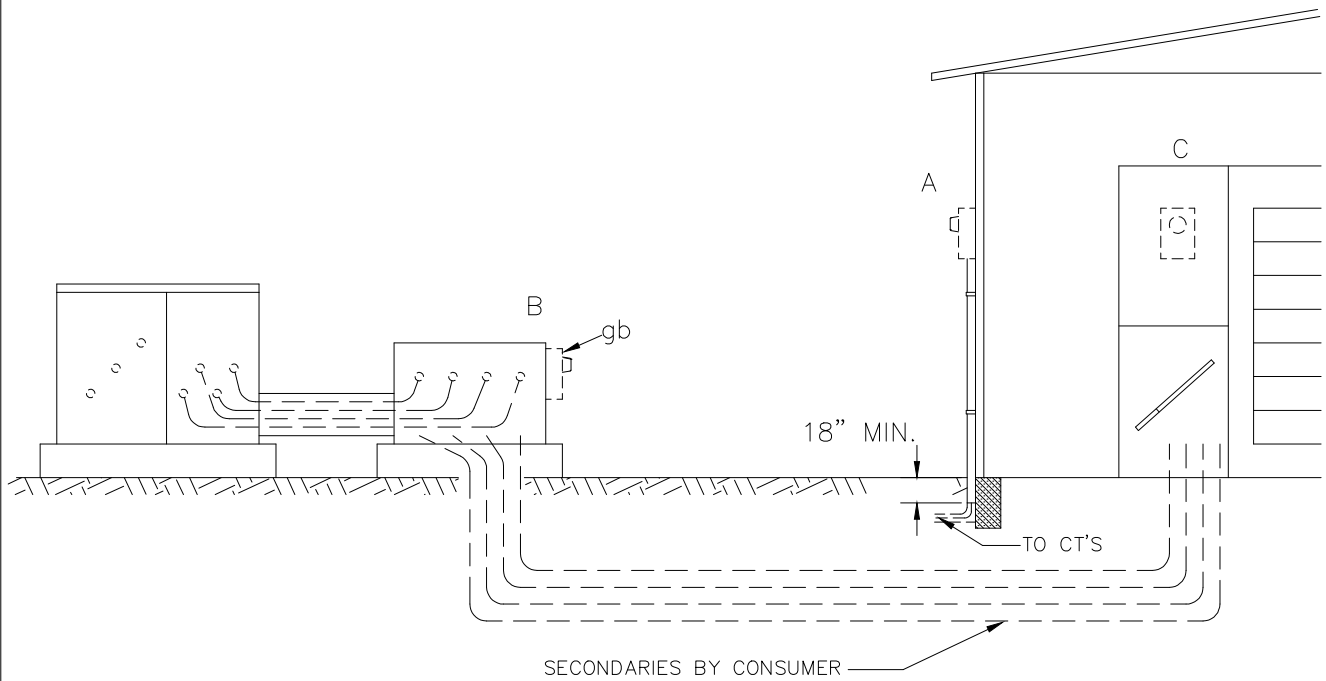
ITEM	QTY.	MATERIAL
		Control cable, as required
		Pipe strap, as required
gb	1	Meter socket
se		Potential transformer, as required
Ugc		Steel pipe, as required
Ugc		Conduit, as required
Usd		Current transformer, as required

C.T. METER INSTALLATION
SINGLE PHASE

Sept. - 18	1 - PHASE PRIMARY 12.47/7.2 kV	UM8 - 6
FDEC		

- UM8-7-A METER ON BUILDING
- UM8-7-B METER ON TAP BOX
- UM8-7-C METER ON LOAD CENTER

METER SOCKET MUST NOT BE ATTACHED DIRECTLY TO PADMOUNTED TRANSFORMER.



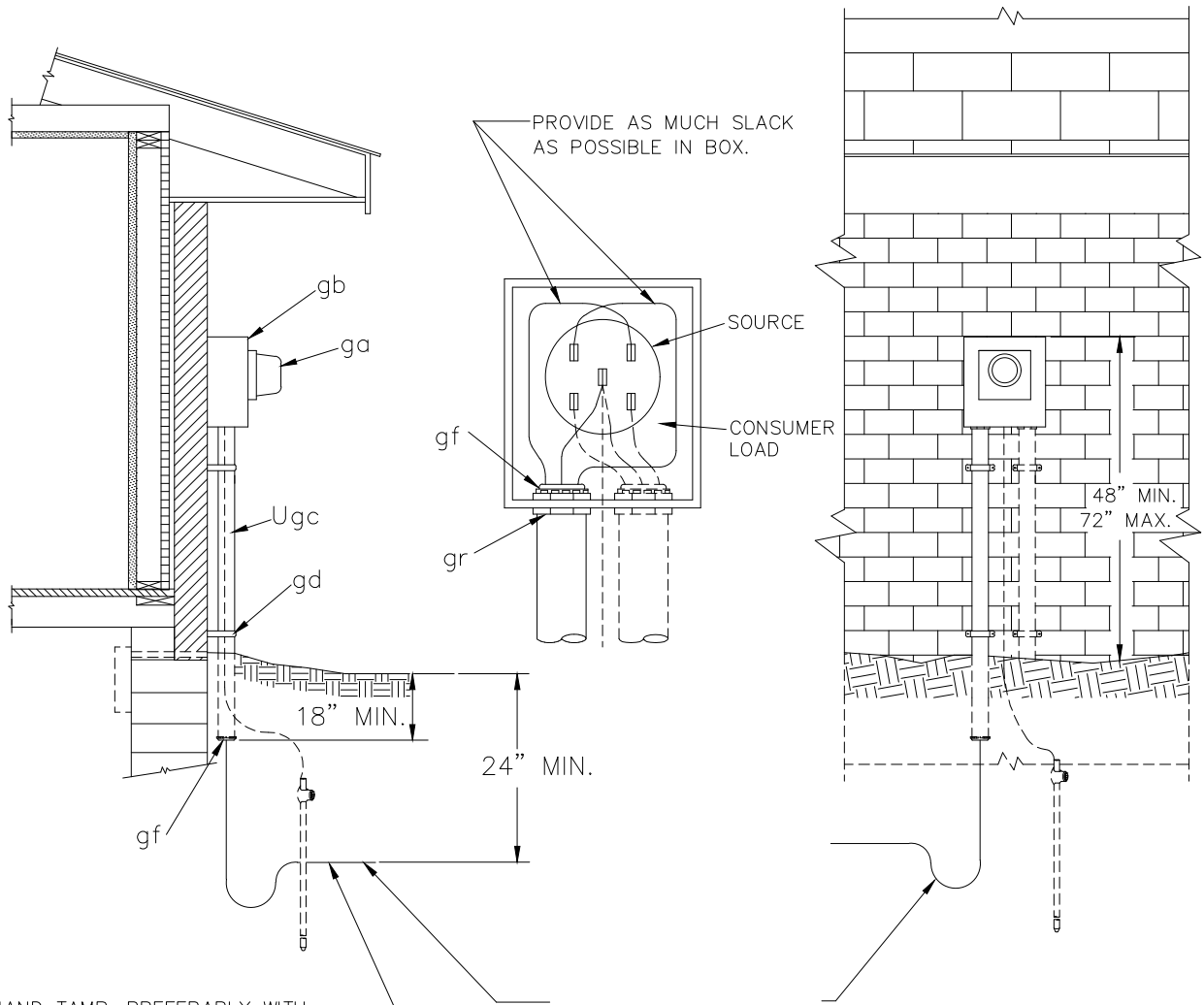
ITEM	QTY.	MATERIAL
		Control cable, as required
		Pipe strap, as required
gb	1	Meter socket
se		Potential transformer, as required
Ugc		Conduit, as required
Ugc		Steel pipe, as required
Usd		Current transformer, as required

C.T. METER INSTALLATION
THREE PHASE

Sept. - 18
FDEC

3 - PHASE PRIMARY
12.47/7.2 kV

UM8 - 7



HAND TAMP, PREFERABLY WITH PNEUMATIC TOOL. BACKFILL WITH CLEAN MATERIAL.

SLACK SHALL BE PROVIDED TO PREVENT DAMAGING STRAIN ON THE CABLE AFTER BACKFILLING.

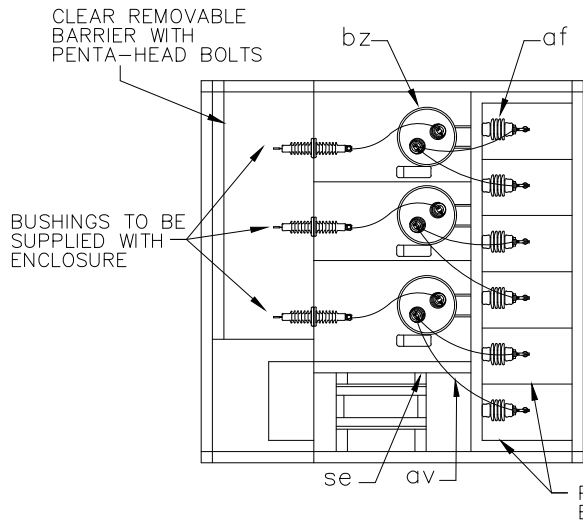
ITEM	QTY.	MATERIAL
ga	1	Meter, as required
gb	1	Meter socket
gd	2	Pipe strap
gf	2	Insulated bushing, size as required
gr	2	Conduit locknuts, size as required
Ugc	1	Conduit, diameter and length as required

METER INSTALLATION UNDERGROUND SOURCE

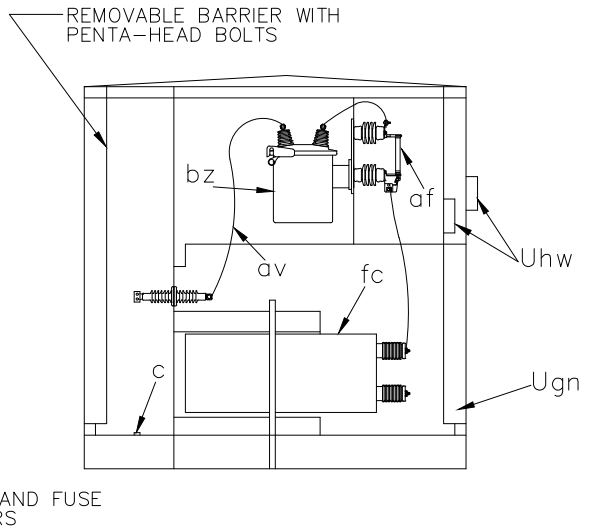
Sept. - 18

FDEC

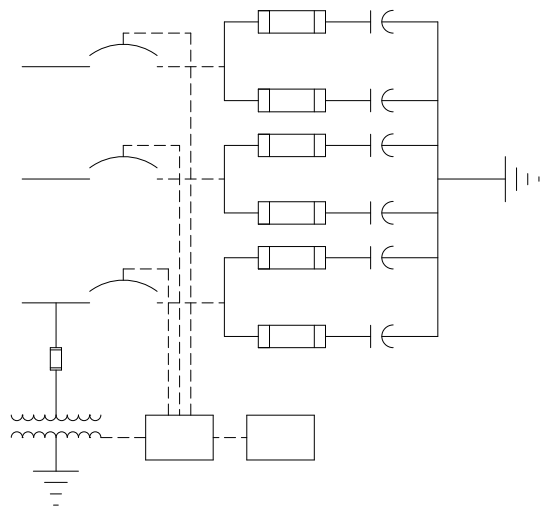
UM8



TOP VIEW



SIDE VIEW



ONE LINE DIAGRAM

NOTES:

1. LOAD BREAK ELBOWS, STRESS CONES, FUSES OR SWITCH BLADES; GROUND SLEEVE IS NOT PART OF THIS ASSEMBLY. THEY SHOULD BE SPECIFIED SEPARATELY ON THE STAKING SHEETS.
2. TAMP WELL UNDER SLEEVE, LEAVE SLACK COIL OF CABLE IN GROUND SLEEVE.
3. PLACE 6" OF FILL AGAINST INSIDE EDGE OF GROUND SLEEVE.
4. GROUNDING UNIT TO BE SPECIFIED SEPARATELY.
5. INSTALL "WARNING" SIGN ON OUTSIDE OF ENCLOSURE AND "DANGER" SIGN INSIDE ENCLOSURE.

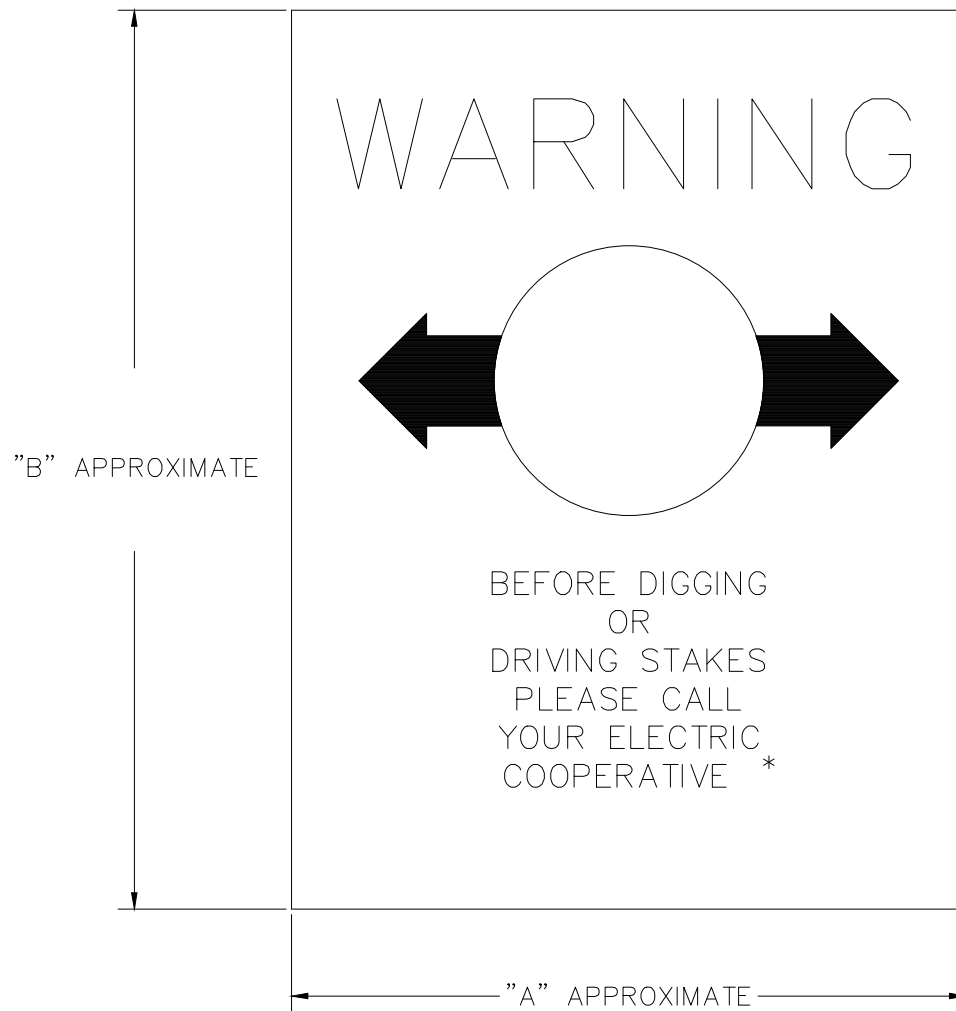
ITEM	QTY.	MATERIAL
c		Bolts, machine, as required
af	6	Power fuse, current limiting
av		Jumpers, copper, as required
bz	3	Single phase oil switch
fc	6	Shunt capacitor
se	1	Potential transformer line voltage to 120 VAC
	3	Bushing with spade
Ugn	1	Enclosure, as specified
Uhw	2	Signs, "DANGER" and "WARNING"

PAD MOUNTED SWITCHED CAPACITOR ENCLOSURE

Sept. - 18

FDEC

UM9 - 2



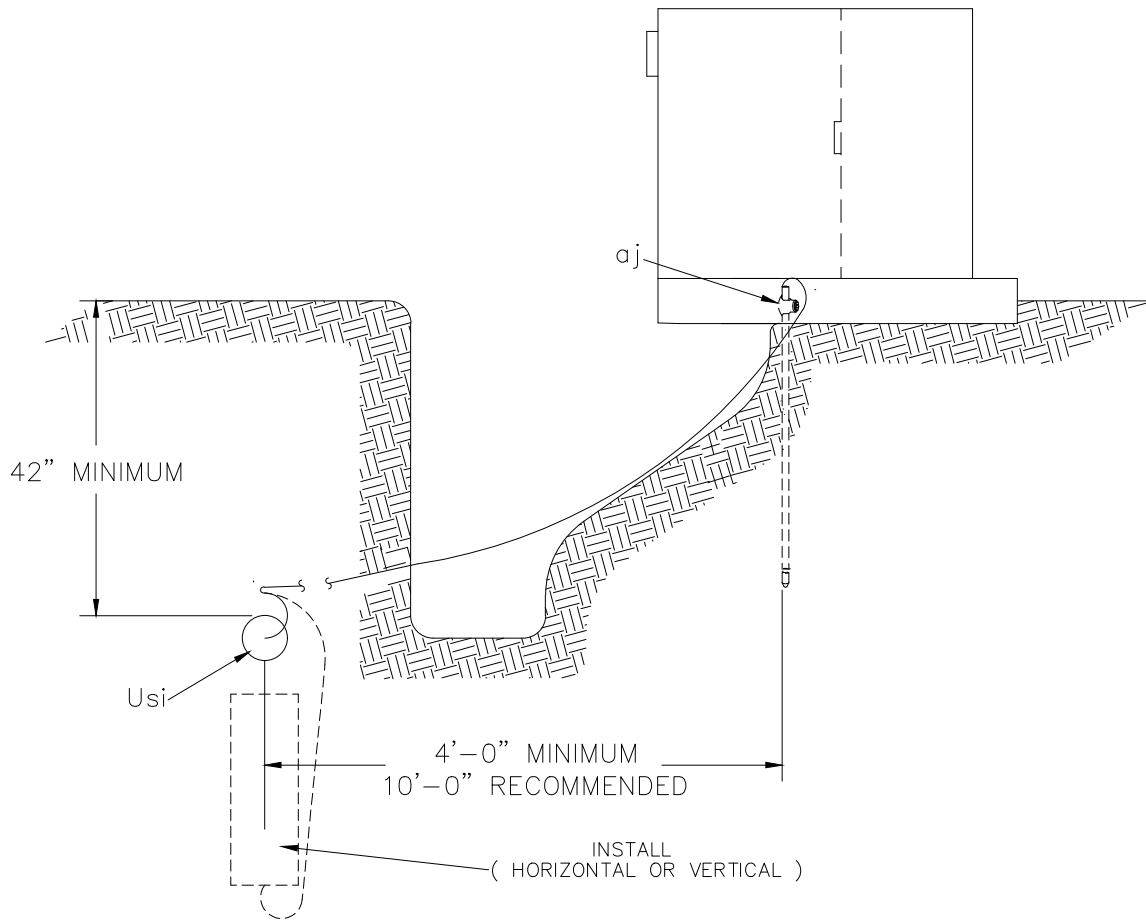
* COOPERATIVE NAME AND TELEPHONE NUMBER MAY BE INSERTED AS AN ALTERNATE.

NOTES:

1. BACKING MATERIAL SHALL BE 16 GAUGE GALVANIZED STEEL, OR EQUAL.
2. SIGN SHALL HAVE A YELLOW BACKGROUND WITH BLACK LETTERS.
3. SIGN SHALL BE SUPPORTED AND DISPLAYED AS SPECIFIED BY OWNER.
4. SIGN SHALL MEET ANSI Z535 STANDARD.

WIDTH ("A")	HEIGHT ("B")
4"	5"
7"	12"
3"	12"

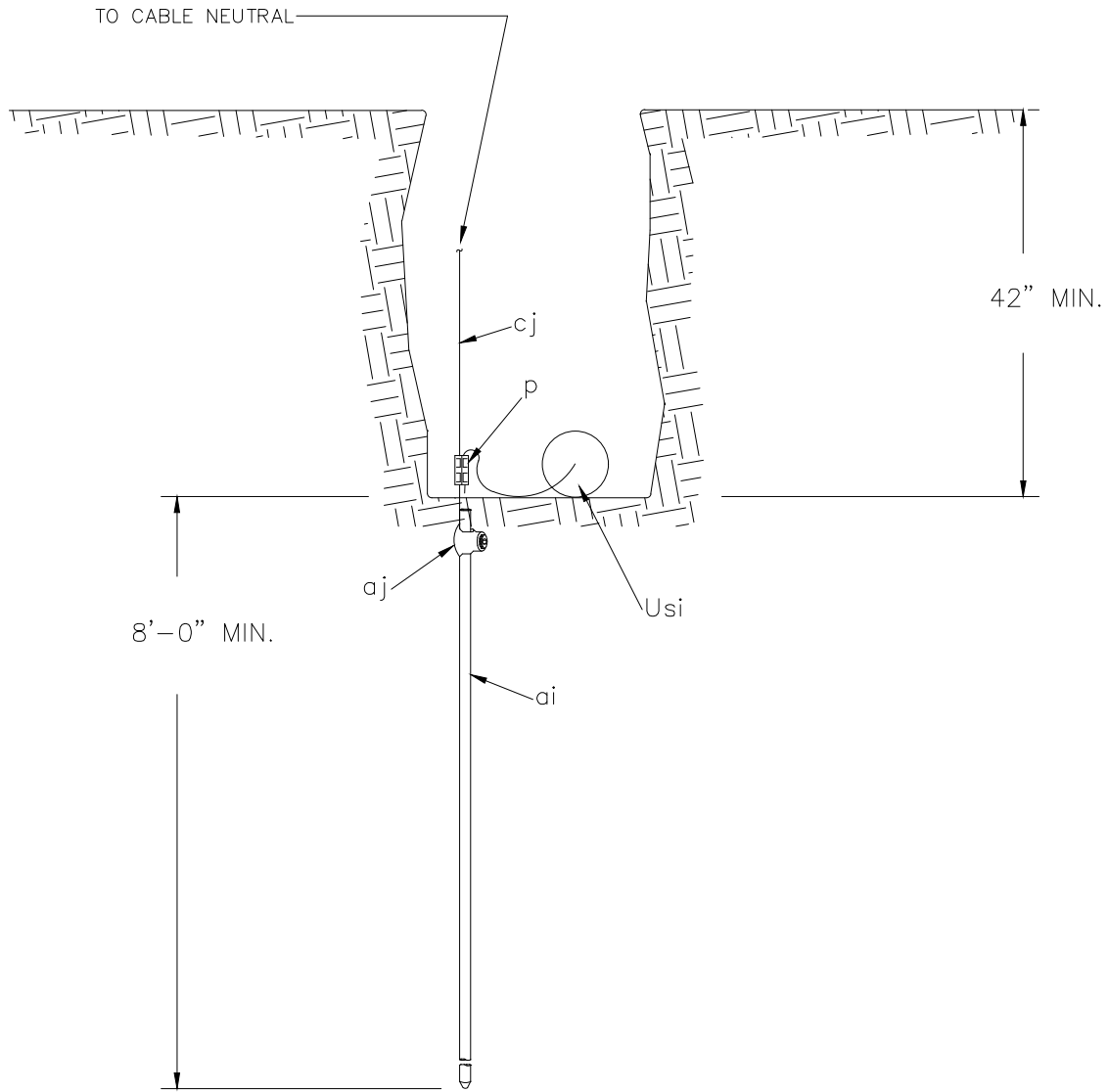
CABLE ROUTE MARKER		
Sept. - 18		
FDEC		UM12



NOTE:

1. CONNECT ANODE LEAD WIRE INSIDE PADMOUNTED EQUIPMENT TO ENABLE TESTING OF ANODE OUTPUT.

ITEM	QTY.	MATERIAL	SACRIFICIAL ANODE FOR EQUIPMENT GROUND PROTECTION		
p		Connectors, compression, as required			
aj		Clamps, ground rod, as required			
Usi		Anode, sacrificial, as required	Sept. - 18		
			FDEC		UM27 - 2



NOTES:

1. INSTALLATION OF AN ANODE IS NOT REQUIRED AT ALL GROUNDING LOCATIONS.
2. ROUTE ANODE LEAD SO AS TO BE ACCESSIBLE FOR TESTING WHENEVER FEASIBLE. (SEE UNITS UM28 OR UM28-1.)

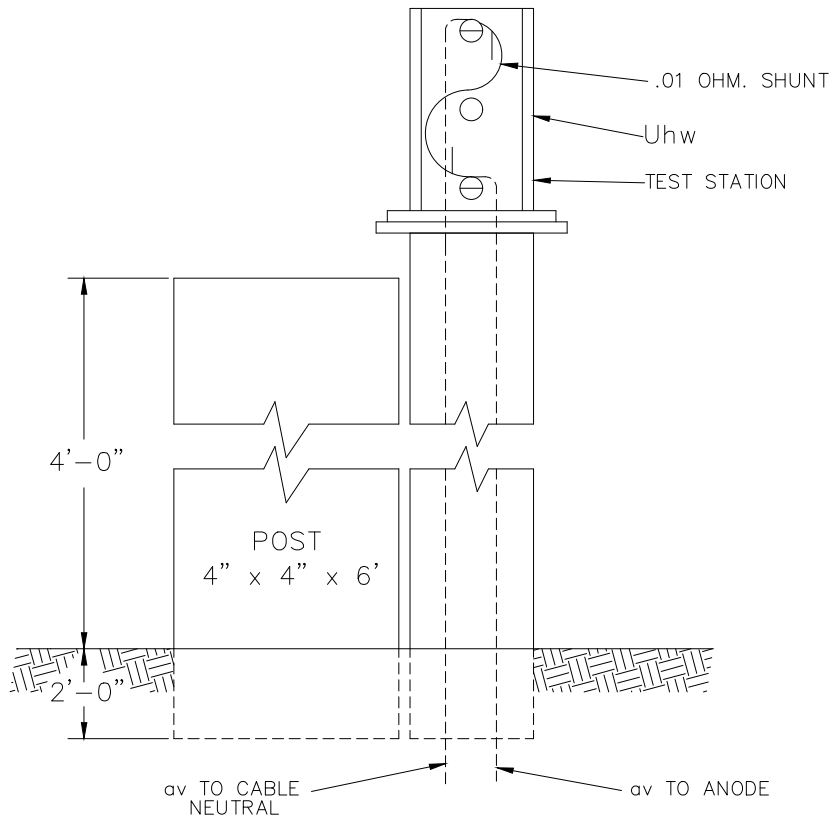
ITEM	QTY.	MATERIAL
p	1	Connector, compression
ai	1	Ground rod, 5/8" x 8'-0" Copper clad
aj	1	Clamp, ground rod
cj		Ground wire, #6 S.D. copper (min.)
Usi	1	Anode, sacrificial

SACRIFICIAL ANODE
FOR
CABLE GROUND PROTECTION

Sept. - 18

FDEC

UM27 - 3



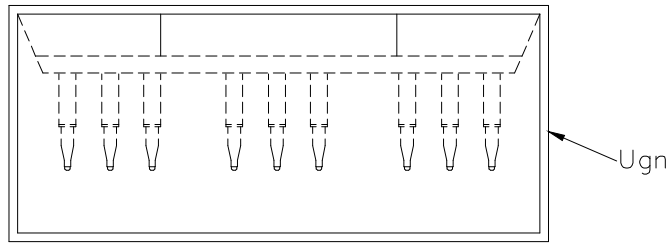
UM28 ABOVE GROUND LEVEL.

UM28-1 FLUSH WITH GROUND LEVEL
 (DELETE POST AND ADD SUITABLE METHOD
 FOR LOCATING.)

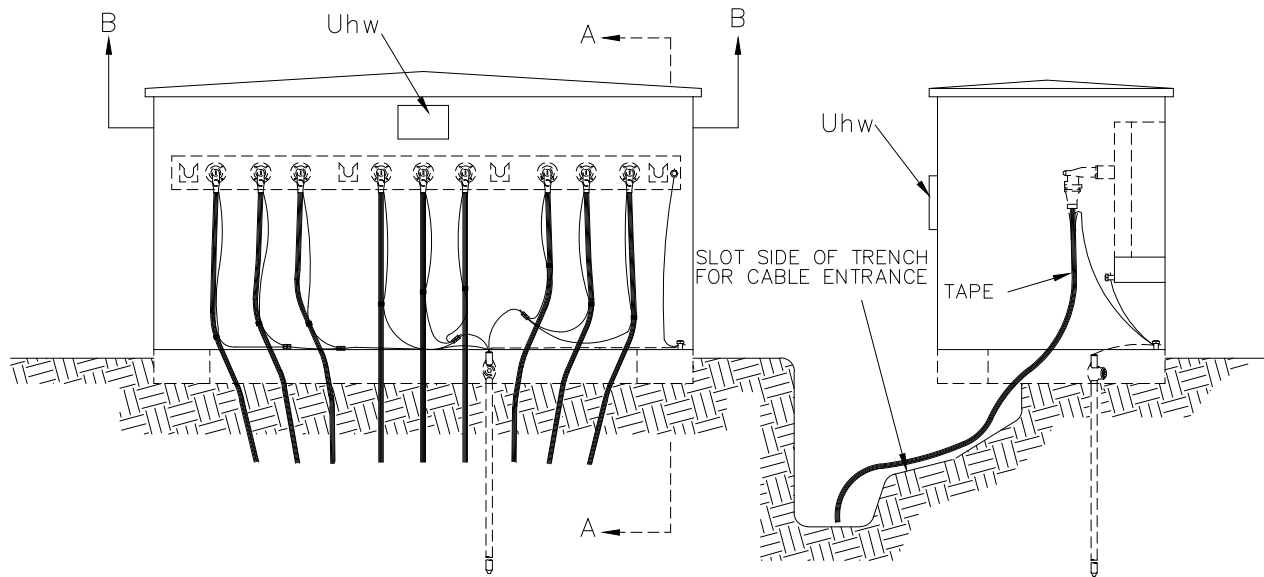
NOTE:

CONNECTIONS TO BE MADE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

ITEM	QTY.	MATERIAL	TEST STATION		
	1	4" x 4" x 6' Treated post			
	1	Test station, anode			
	1	Shunt, anode			
av		Jumper, insulated, as required	Sept. - 18		UM28
			FDEC		
Uhw	1	Sign, "WARNING"			



SECTION "B-B"



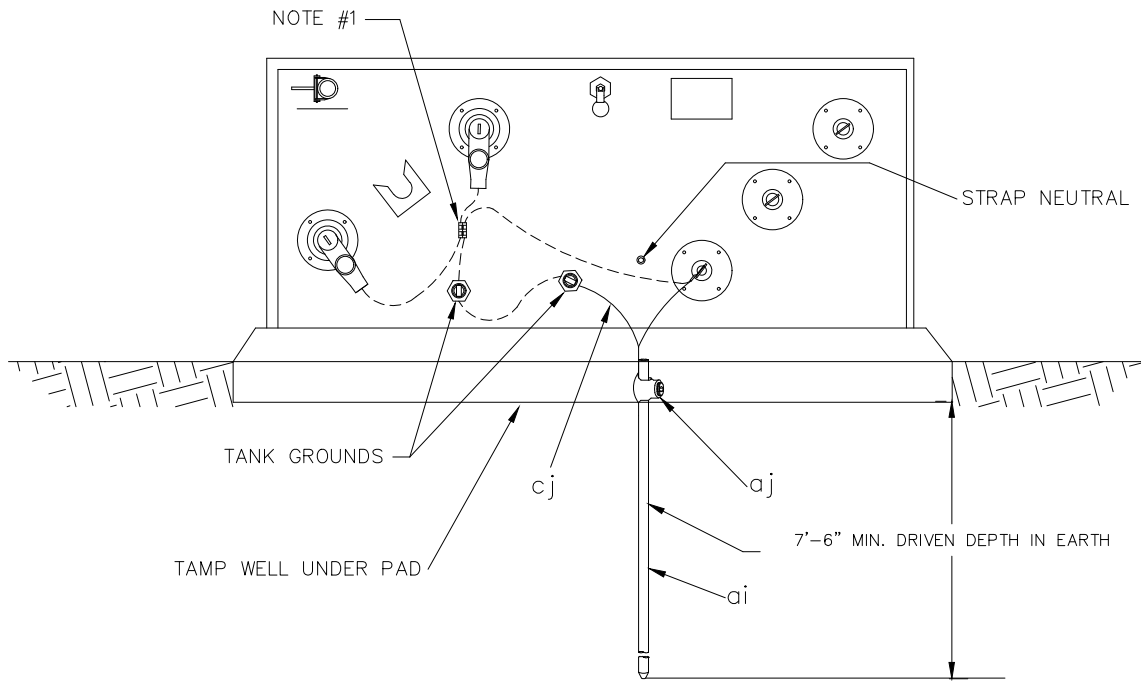
SECTION "A-A"

NOTES:

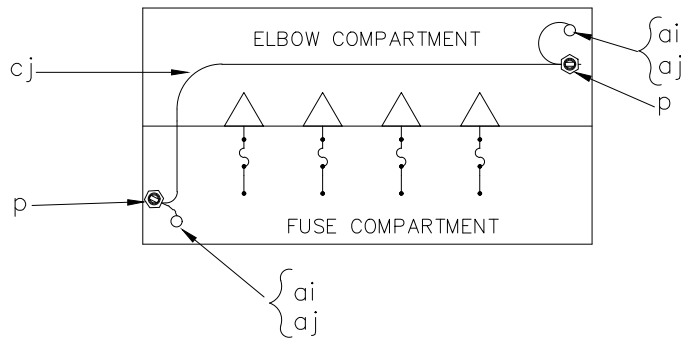
1. THE FOLLOWING UNITS/ASSEMBLIES ARE NOT PART OF THIS UNIT. SPECIFY SEPARATELY:
 - A. MULTIPoint TERMINATIONS AND OTHER ACCESSORIES
 - B. FUSED OR NON-FUSED LOADBREAK ELBOWS
 - C. GROUNDING ASSEMBLIES UM48-1 OR OTHER
 - D. PAD OR SLEEVE ASSEMBLIES (IF REQUIRED)
2. ALL NEUTRALS AND METALLIC NON-CURRENT CARRYING PARTS SHALL BE INTERCONNECTED AND GROUNDED.
3. INSTALL "WARNING" SIGN ON OUTSIDE SURFACE OF ENCLOSURE AND "DANGER" SIGN INSIDE ENCLOSURE.

ITEM	QTY.	MATERIAL			
p		Connectors, as required	MULTI PHASE SECTIONALIZING ENCLOSURE PAD OR SLEEVE MOUNTED		
av		Jumpers, as required			
Ugn	1	Enclosure	Sept. - 18	3 - PHASE PRIMARY	UM33
Uhw	2	Signs, "DANGER" and "WARNING"	FDEC	12.47/7.2 kV	

TRANSFORMER INSTALLATION
(FRONT VIEW)



DEADFRONT FUSE ENCLOSURE
(TOP VIEW)

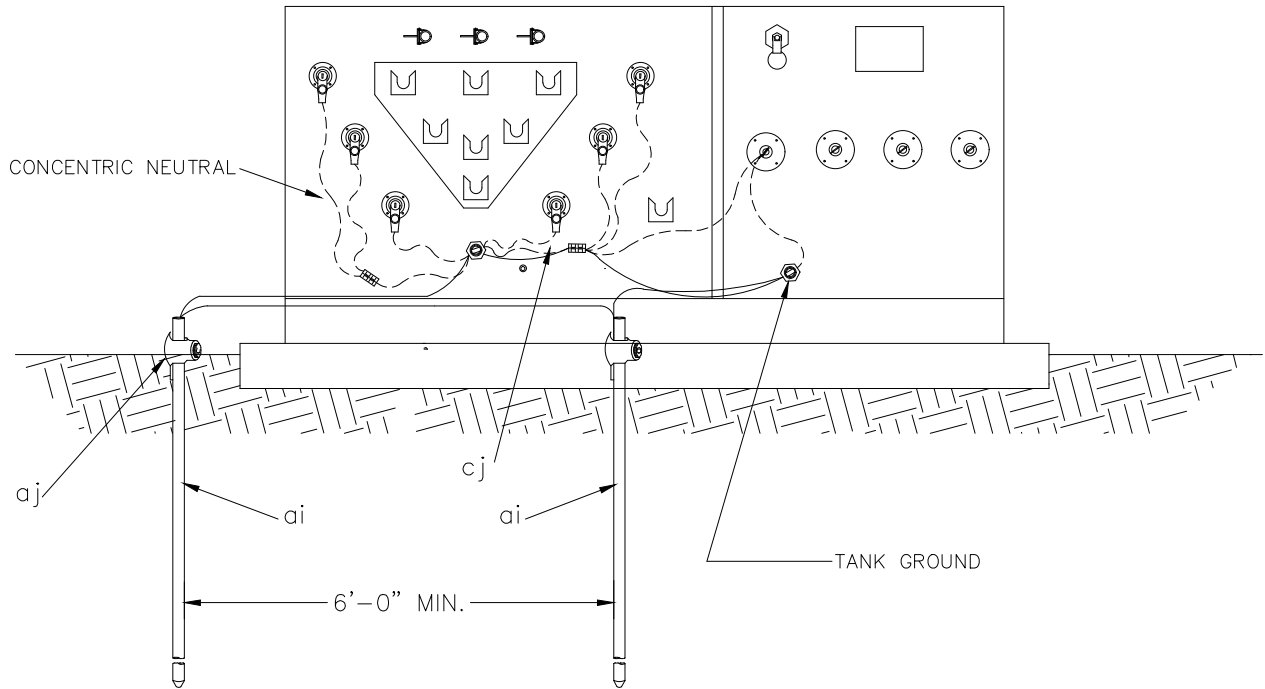


NOTES:

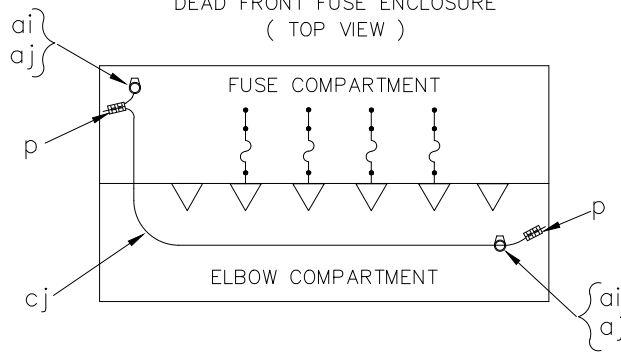
1. TIE CONCENTRIC NEUTRALS TOGETHER BEFORE TAP TO GROUND LOOP TO ASSURE SAME CONDUCTIVITY AS CABLE NEUTRAL.

ITEM	QTY	MATERIAL	GROUNDING ASSEMBLY FOR PAD MOUNTED SINGLE PHASE TRANSFORMERS AND ENCLOSURES		
p		Connectors, (as required)			
ai		Ground rods, specify number and length			
aj		Clamp, ground rod (1 per rod)			
cj		Ground wire, #4 copper (as required)			

TRANSFORMER INSTALLATION
(FRONT VIEW)



DEAD FRONT FUSE ENCLOSURE
(TOP VIEW)



NOTES:

1. TIE CONCENTRIC NEUTRALS TOGETHER BEFORE TAP TO GROUND LOOP TO ASSURE SAME CONDUCTIVITY AS CABLE NEUTRAL.
2. MULTIPLE RODS MAY NOT FIT INSIDE ENCLOSURE. ONLY 1 ROD MUST BE INSTALLED INSIDE ENCLOSURE.
3. THE QUANTITY OF RODS IS TO BE DETERMINED BY THE SPECIFIER. THE USE OF TWO RODS RATHER THAN ONE AT A MULTI-PHASE TRANSFORMER OR ENCLOSURE IS NOT A STANDARD OR REQUIREMENT BY RUS.

ITEM	QTY	MATERIAL
p		Connectors, as required
ai		Ground rods, specify number and length
aj		Clamp, ground rod (1 per rod)
		Jumpers, copper, as required
cj		Ground wire, #4 copper min. (as required)

GROUNDING AND ASSEMBLY FOR
PAD MOUNTED MULTI PHASE
TRANSFORMERS AND ENCLOSURES

Sept. - 18

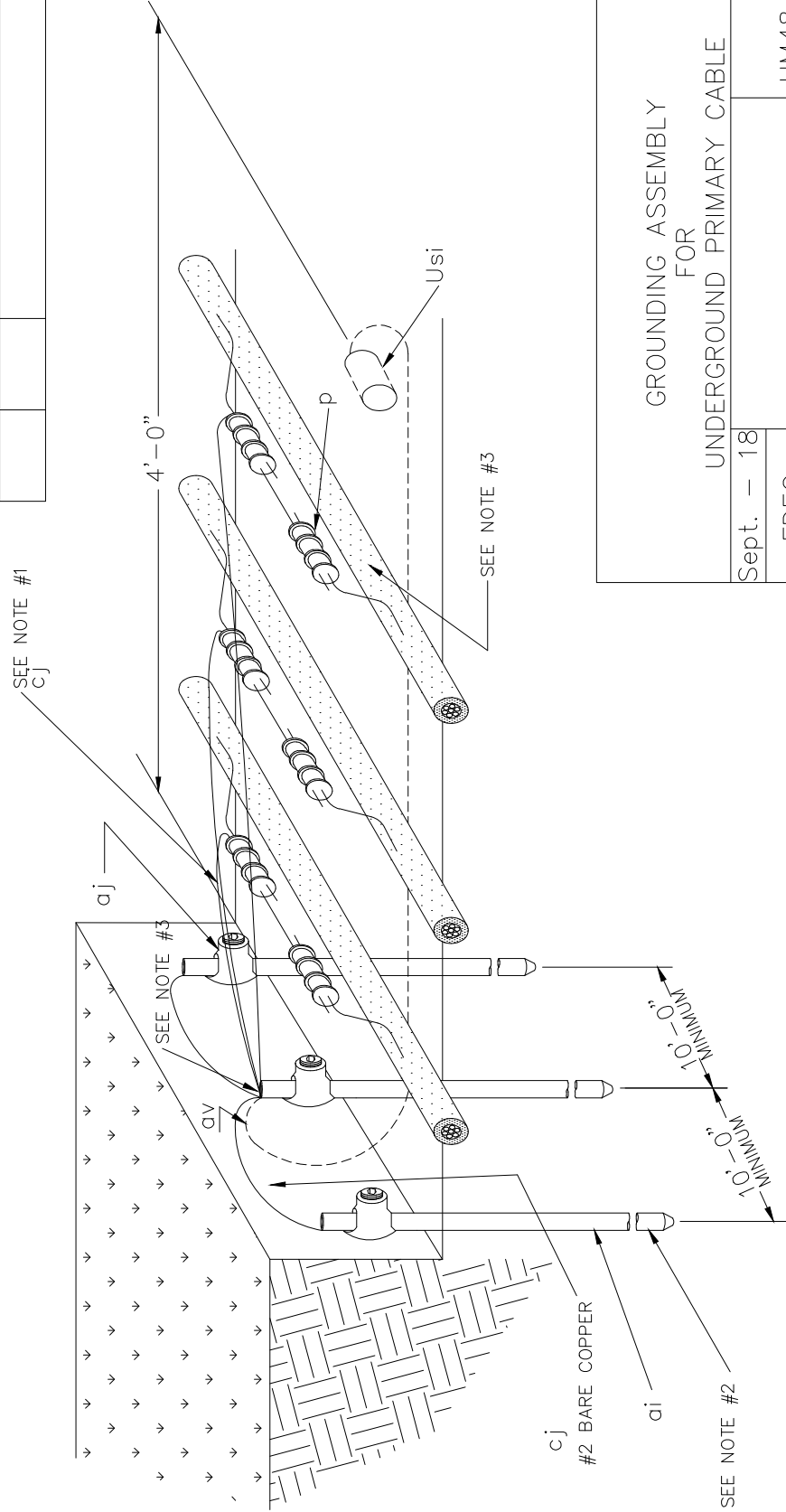
FDEC

3 - PHASE PRIMARY
12.47/7.2 kV

UM48 - 2

NOTES:

- #2 THRU 4/0 CONDUCTOR - USE #4 BARE, SOLID CU JUMPER (av) #4 STRD CU GROUND WIRE (cj) 500 MCM CONDUCTOR - USE #2/0 BARE SOLID CU JUMPER (av) #2 STRD CU GROUND WIRE (cj).
- ENGINEER TO SPECIFY NUMBER AND LENGTH OF GROUND RODS.
- MOISTURE SEAL AROUND CONNECTIONS TO THE JACKETED CABLE NEUTRAL. USE SOLID COPPER INSIDE AND EXTENDED THROUGH MOISTURE SEAL.
- FOUR GROUNDS PER MILE MINIMUM. MORE REQUIRED WITH HIGH GROUND RESISTANCE.
- GROUND RODS MAY BE INSTALLED IN SEPARATE PITS SPACED 30 FEET APART.



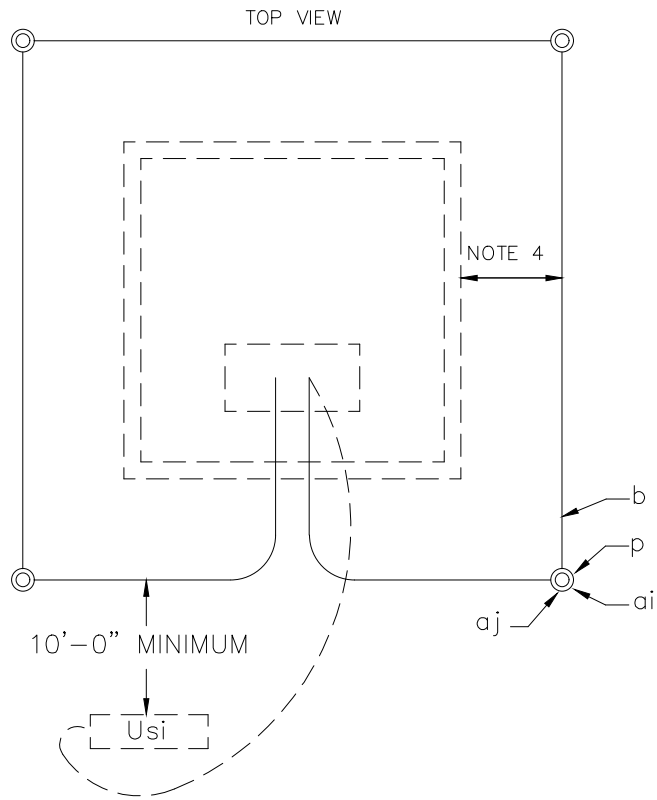
ITEM	QTY.	MATERIAL
p		Connector, compression as required
ai		Ground rods
aj		Clamp, ground rod, as required
av		Jumper, See Note #1
cj		Grounding wire, #4, #2, copper
cj		Jumpers, (2) - #14 stranded leads

GROUNDING ASSEMBLY
FOR
UNDERGROUND PRIMARY CABLE

Sept. - 18

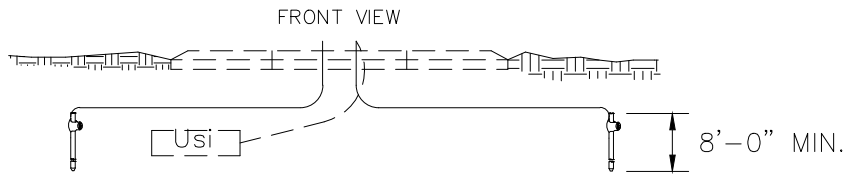
FDEC

UM48 - 3



NOTE:

CONNECT ANODE, LEAD INSIDE PAD MOUNTED ENCLOSURES FOR TESTING PURPOSES.



NOTES:

1. PLACE ONE GROUND ROD AT EACH CORNER.
2. GROUNDING GRID 1/0 BARE COPPER BURIED 6" BELOW GROUND, RUN WIRE INTO BASEMENT AND ALLOW 5'-0" FOR GROUNDING LIVE FRONT SWITCH / FUSE ENCLOSURES.
3. PAD OR BASEMENT IS NOT PART OF THIS UNIT.
4. PLACE GROUND WIRE A MINIMUM OF 24" AWAY FROM THE SIDE OR SIDES OF PAD THAT A PERSON WOULD STAND TO OPERATE THE EQUIPMENT. THE GROUND WIRE MAY BE PLACED WITHIN 12" OF THE OTHER SIDES.
5. SPECIFY LENGTH OF GROUND RODS AT EACH CORNER.

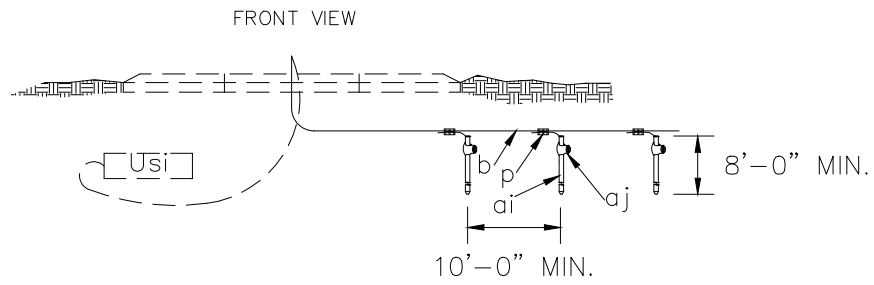
ITEM	QTY.	MATERIAL
av		1/0 bare copper (as required) 30'-0" Min.
p		Connectors (as required)
ai	4	Ground rods
aj	4	Clamp, ground rod, 1 per rod

GROUNDING GRID FOR PAD MOUNTED EQUIPMENT INSTALLATION

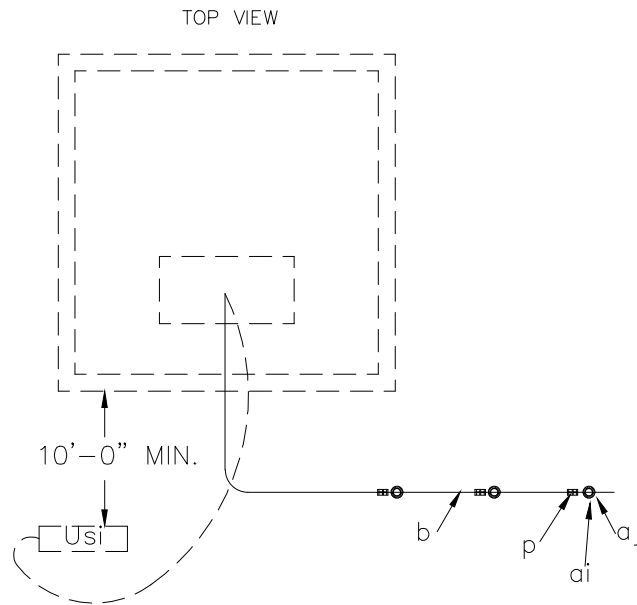
Sept. - 18

FDEC

UM48 - 5



NOTE:
CONNECT ANODE LEAD INSIDE PAD MOUNTED
ENCLOSURES FOR TESTING PURPOSES

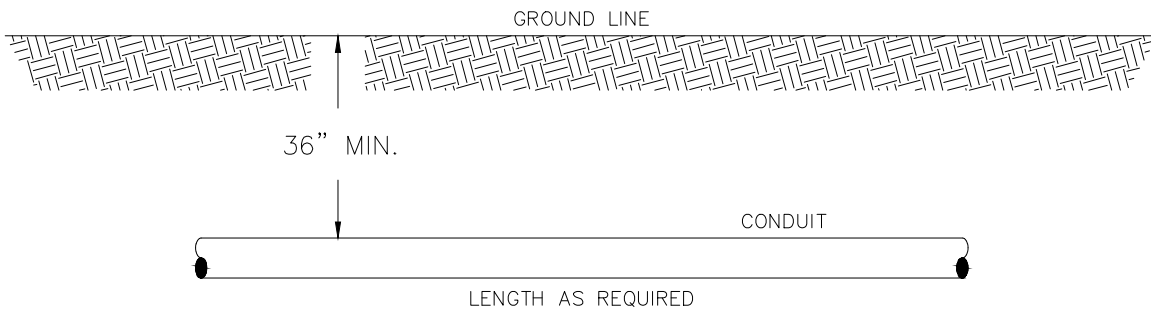


NOTES:

1. PLACE A MINIMUM OF TWO GROUND RODS IN SERIES. MINIMUM DISTANCE BETWEEN GROUND UNIT ASSEMBLIES - 10'-0".
2. GROUNDING GRID 1/0 BARE COPPER BURIED 6" BELOW GROUND, RUN WIRE INTO BASEMENT AND ALLOW 5'-0" FOR GROUNDING LIVE FRONT SWITCH / FUSE ENCLOSURES.
3. PAD OR BASEMENT IS NOT PART OF THIS UNIT.
4. SPECIFY NUMBER AND LENGTH OF GROUND RODS.

ITEM	QTY.	MATERIAL
av		1/0 bare copper as required
p		Connectors, as required
ai		Ground rods
aj		Clamp, ground rod, 1 per rod

GROUNDING ARRAY FOR PAD MOUNTED EQUIPMENT INSTALLATION		
Sept. - 18		
FDEC		UM48 - 6



SPECIFICATION NUMBER CODES:
 UM50-(P,S OR H)-(DIAMETER)

EXAMPLE: UM50-S-3
 IS 3" STEEL CONDUIT

MATERIAL	-P-2	-P-2.5	-P-3	-P-3.5	-P-4	-P-5	-P-6
1-2" P.V.C CONDUIT	1						
1-2.5" P.V.C CONDUIT		1					
1-3" P.V.C CONDUIT			1				
1-3.5" P.V.C CONDUIT				1			
1-4" P.V.C CONDUIT					1		
1-5" P.V.C CONDUIT						1	
1-6" P.V.C CONDUIT							1
MATERIAL	-S-2	-S-2.5	-S-3	-S-3.5	-S-4	-S-5	-S-6
1-2" Steel CONDUIT	1						
1-2.5" Steel CONDUIT		1					
1-3" Steel CONDUIT			1				
1-3.5" Steel CONDUIT				1			
1-4" Steel CONDUIT					1		
1-5" Steel CONDUIT						1	
1-6" Steel CONDUIT							1
MATERIAL	-H-2	-H-2.5	-H-3	-H-3.5	-H-4	-H-5	-H-6
1-2" H.D.P.E CONDUIT	1						
1-2.5" H.D.P.E CONDUIT		1					
1-3" H.D.P.E CONDUIT			1				
1-3.5" H.D.P.E CONDUIT				1			
1-4" H.D.P.E CONDUIT					1		
1-5" H.D.P.E CONDUIT						1	
1-6" H.D.P.E CONDUIT							1

NOTE:

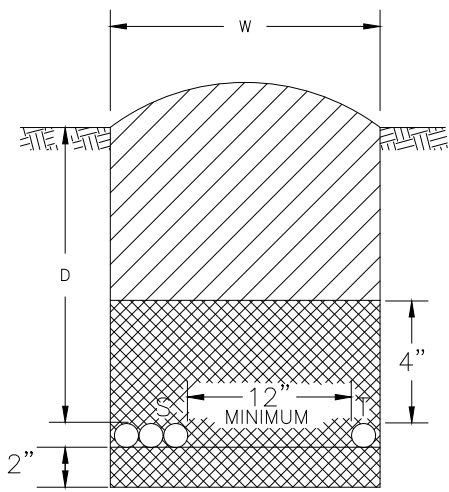
SPECIFY TRENCH UNIT SEPARATELY

MISCELLANEOUS CONDUIT
 INSTALLATION

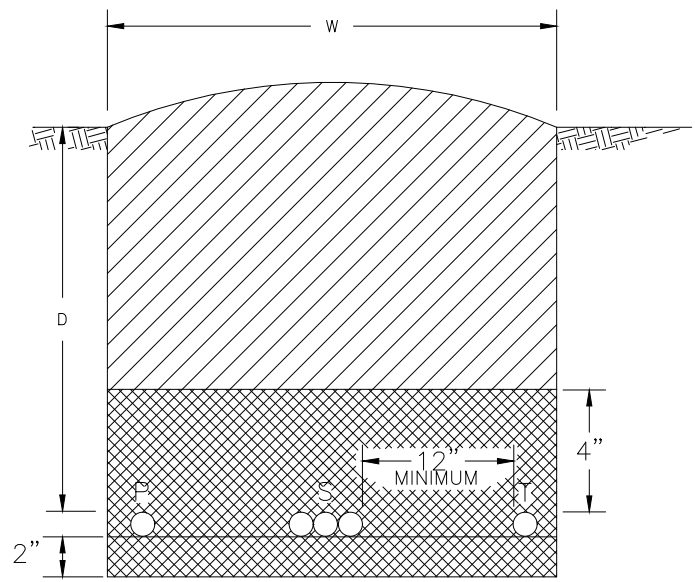
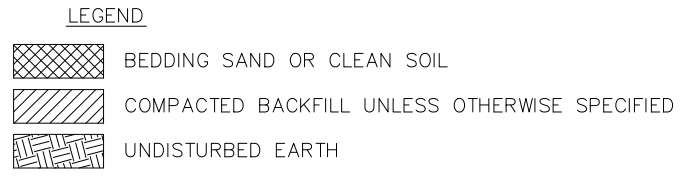
Sept. - 18

FDEC

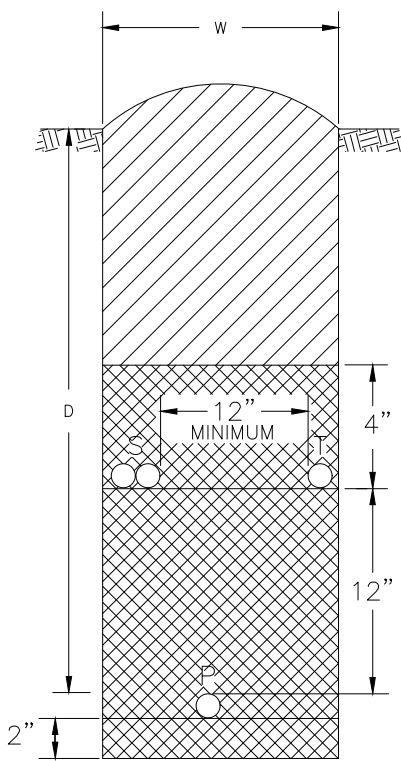
UM50-__-__



UR2-3 (D x W)
SERVICE OR SECONDARY
AND
TELEPHONE



UR2-5 (D x W)
PRIMARY, SECONDARY
AND
TELEPHONE

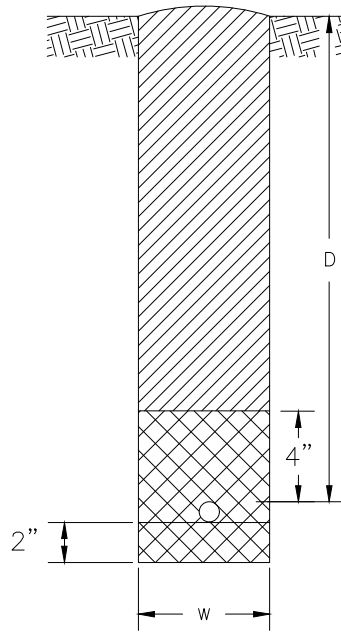


UR2-4 (D x W)
PRIMARY
AND
SECONDARY OR TELEPHONE

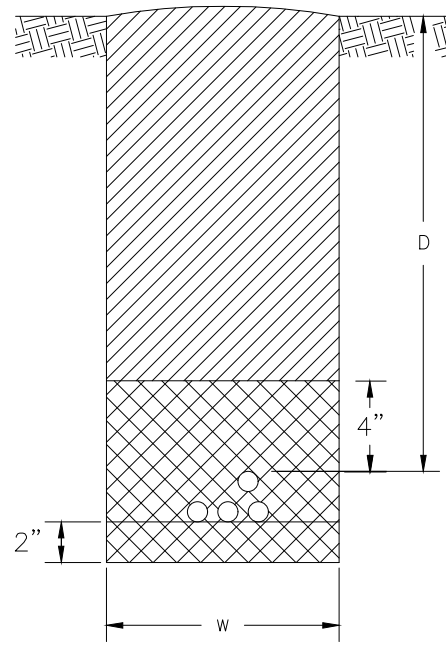
NOTES:

1. DEPTH (D) AND WIDTH (W) ARE SPECIFIED IN DESCRIPTION OF UNITS.
2. DEPTHS SPECIFIED ARE TO FINISHED GRADE.
3. OVER-EXCAVATE TRENCHES AS NECESSARY TO ALLOW FOR (a) SAND BEDDING OR (b) LOOSE AND SANDY SOILS OR (c) WHERE MORE THAN ONE CABLE WILL BE INSTALLED IN TRENCH AND LAYING OF FIRST CABLE MAY CAUSE TRENCH DAMAGE AND REDUCTION IN DEPTH.
4. SAND BEDDING IS NOT PART OF THESE UNITS AND WILL BE SPECIFIED AS NEEDED.
5. BACKFILLING IS PART OF ALL TRENCHING UNITS INCLUDING JOINT-USE TRENCHES.

TRENCHES FOR DIRECT BURIAL CABLES		
Sept. - 18		UR2 - 3, UR2 - 5
FDEC		






UR2 (D x W)
TRENCHING UNIT
ONE CABLE OR
CABLE ASSEMBLY



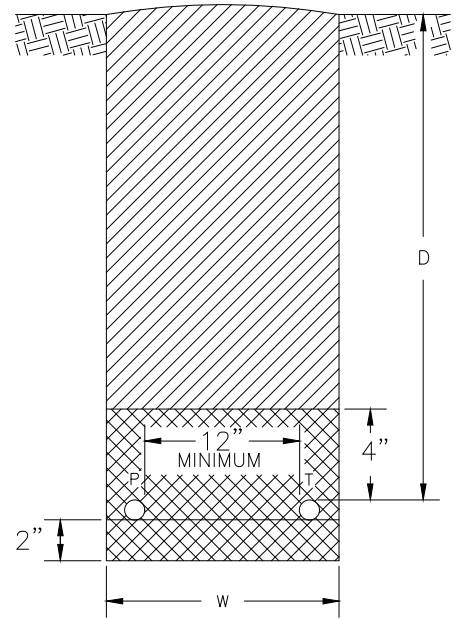
UR2-1 (D x W)
TRENCHING UNIT
MULTIPLE POWER CABLES
PRIMARY, SECONDARY OR SERVICE

LEGEND

-  SAND OR CLEAN SOIL
-  COMPACTED BACKFILL UNLESS OTHERWISE SPECIFIED
-  UNDISTURBED EARTH

NOTES:

1. DEPTH (D) AND WIDTH (W) ARE SPECIFIED IN DESCRIPTION OF UNITS.
2. DEPTHS SPECIFIED ARE TO FINISHED GRADE.
3. OVER-EXCAVATE TRENCHES AS NECESSARY TO ALLOW FOR (a) SAND BEDDING OR (b) LOOSE SANDY SOILS OR (c) WHERE MORE THAN ONE CABLE WILL INSTALLED IN TRENCH AND LAYING FIRST CABLE MAY CAUSE TRENCH DAMAGE AND REDUCTION IN DEPTH.
4. SAND BEDDING IS NOT PART OF THESE UNITS AND WILL BE SPECIFIED AS NEEDED.
5. BACKFILLING IS PART OF ALL TRENCHING UNITS INCLUDING JOINT-USE TRENCHES.
6. OPTIONAL WARNING TAPE IS RECOMMENDED TO BE PLACED ABOVE THE INSTALLED CABLE.

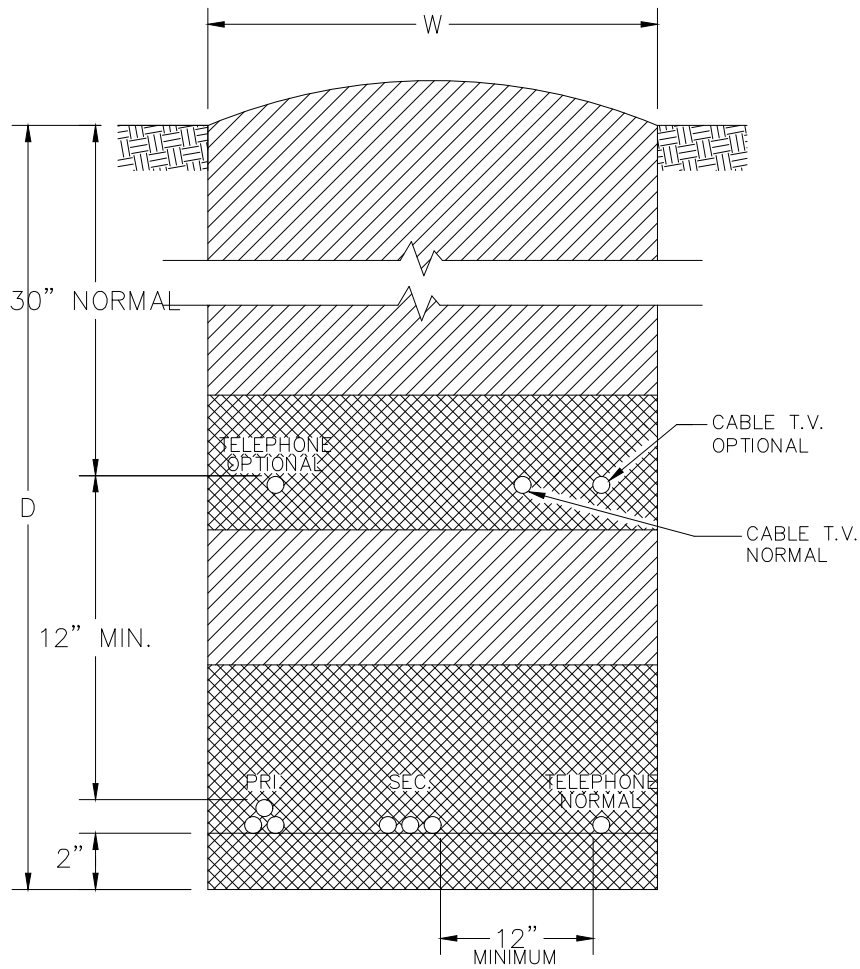


UR2-2 (D x W)
TRENCHING UNIT
POWER AND TELEPHONE CABLE

TRENCHES FOR DIRECT
BURIAL CABLES

Sept. - 18
FDEC


UR2,
UR2 - 2



LEGEND

 BEDDING SAND OR CLEAN SOIL

 COMPACTED BACKFILL UNLESS OTHERWISE SPECIFIED

 UNDISTURBED EARTH

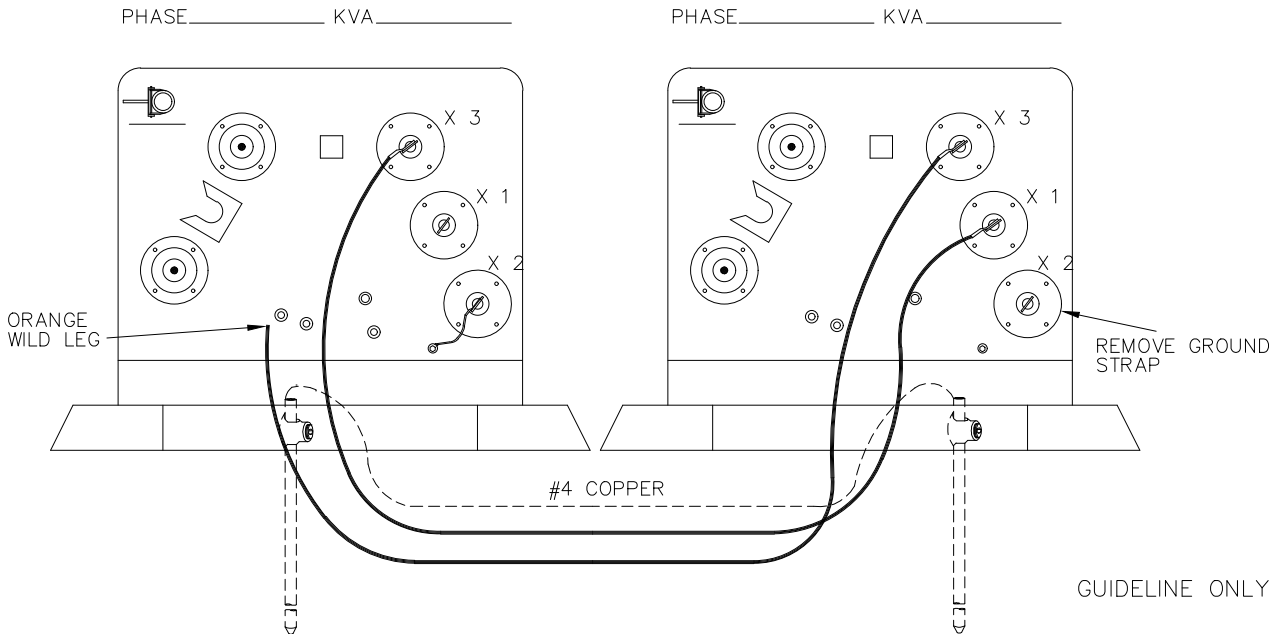
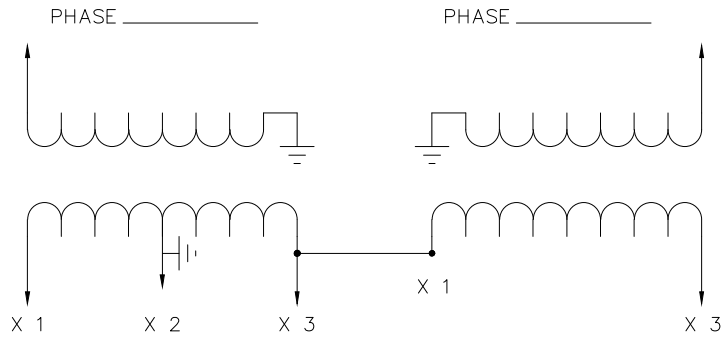
PRI. = PRIMARY SUPPLY CABLES
SEC. = SECONDARY OR STREETLIGHT WIRES

URT-NT = NORMAL TRENCH 42" - 48" DEPTH
URT-ST = SUPER TRENCH 60" + DEPTH
W = 18" - 24" NORMAL

NOTES:

1. DEPTH (D) AND WIDTH (W) ARE SPECIFIED IN DESCRIPTION OF UNITS.
2. DEPTHS SPECIFIED ARE TO FINISHED GRADE.
3. OVER-EXCAVATE TRENCHES AS NECESSARY TO ALLOW FOR (a) SAND BEDDING OR (b) LOOSE AND SANDY SOILS OR (c) WHERE MORE THAN ONE CABLE WILL BE INSTALLED IN TRENCH AND LAYING OF FIRST CABLE MAY CAUSE TRENCH DAMAGE AND REDUCTION IN DEPTH.
4. SAND BEDDING IS NOT PART OF THESE UNITS AND WILL BE SPECIFIED AS NEEDED.
5. BACKFILLING IS PART OF ALL TRENCHING UNITS INCLUDING JOINT-USE TRENCHES.

TRENCHES FOR DIRECT BURIAL CABLE		
Sept. - 18		
FDEC		UR2 - NT, UR2 - ST



NOTE:

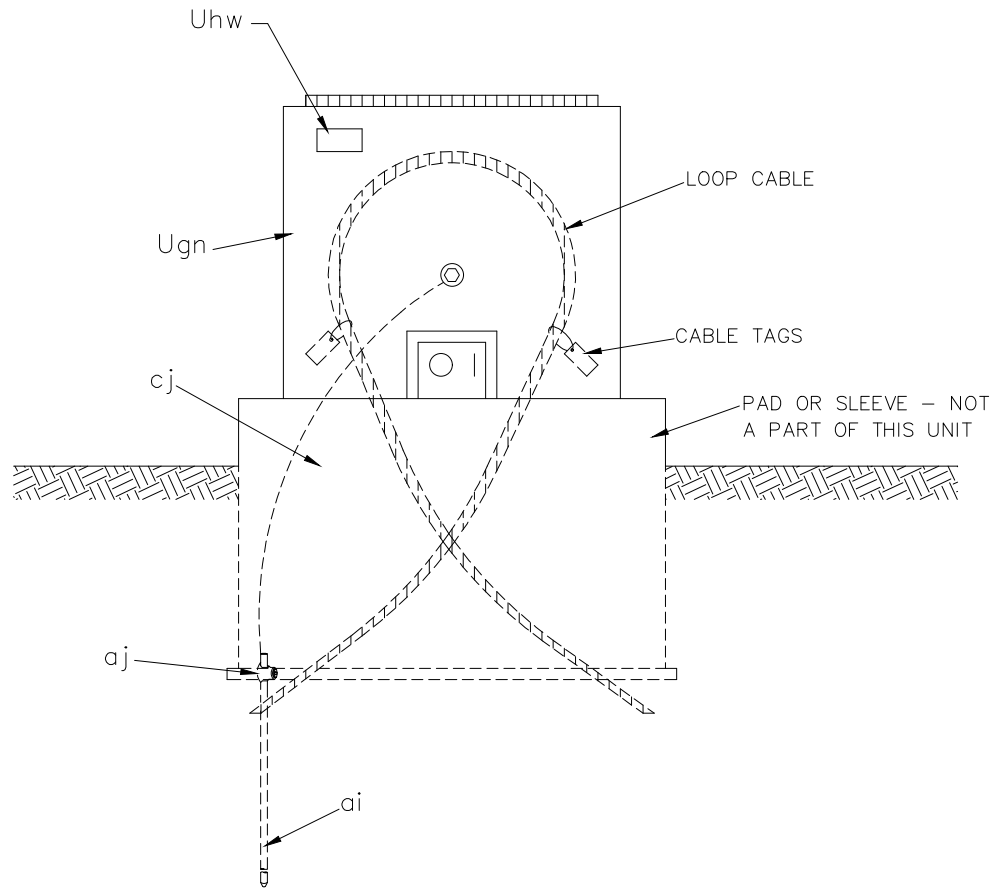
1. SPECIFY (2) APPLICABLE SINGLE PHASE TRANSFORMER ASSEMBLIES.

OPEN DELTA CONNECTION
WITH SINGLE PHASE
PADMOUNT TRANSFORMERS

Sept. - 18
FDEC

1 - PHASE PRIMARY
12.47/7.2 kV

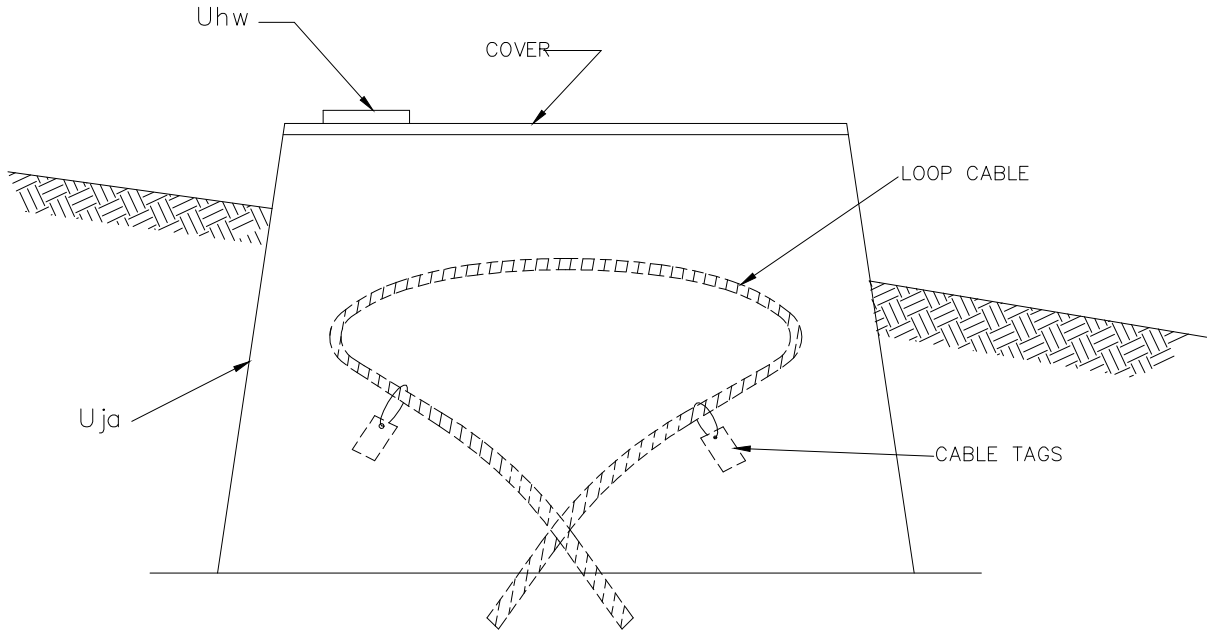
UX1



INSTALLATION NOTES:

1. LOOP CABLE TO PROVIDE SUFFICIENT LENGTH FOR TERMINATING IN A PAD-MOUNTED TRANSFORMER.
2. INSTALL CABLE TAGS ON CABLE.

ITEM	QTY.	MATERIAL	SINGLE PHASE PAD MOUNTED TRANSFORMER DEFERRED UNIT PEDESTAL TYPE		
ai	1	Ground rod			
aj	1	Clamp, ground rod			
cj		As required			
Ugn	1	Primary junction enclosure	Sept. - 18	1 - PHASE PRIMARY 12.47/7.2 kV	UX2
Uhw	1	Sign, "WARNING"	FDEC		

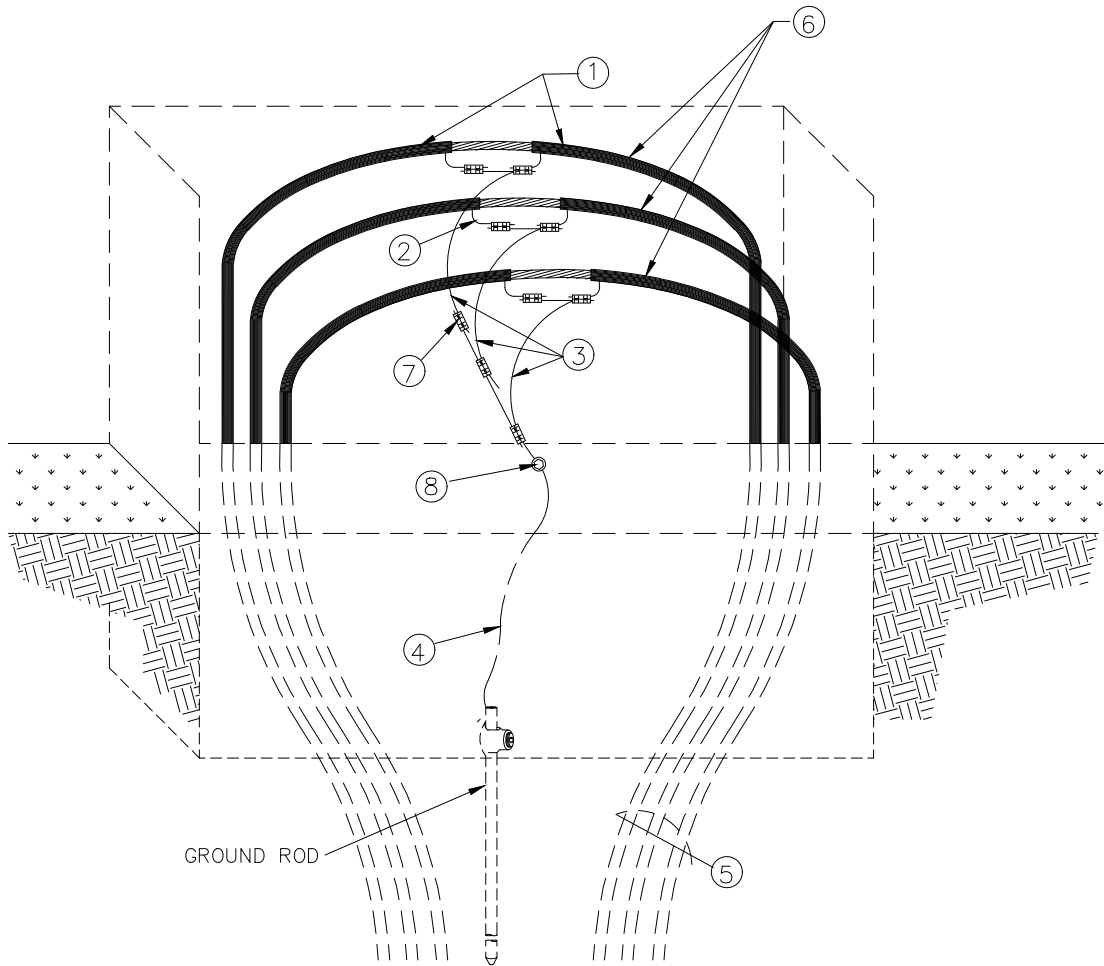


INSTALLATION NOTES:

1. LOOP CABLE TO PROVIDE SUFFICIENT LENGTH FOR TERMINATING IN A LOW PROFILE TRANSFORMER.
2. INSTALL CABLE TAGS ON CABLE.
3. COVER, IF METAL, SHALL BE GROUNDED

ITEM	QTY.	MATERIAL
Uhw	1	Sign, "WARNING"
Uja	1	Transformer pad-sleeve combination
Uja	1	Cover

SINGLE PHASE PAD MOUNTED TRANSFORMER DEFERRED UNIT PAD SLEEVE TYPE		
Sept. - 18	1 - PHASE PRIMARY 12.47/7.2 kV	UX3
FDEC		



GROUND ROD

GUIDELINE ONLY

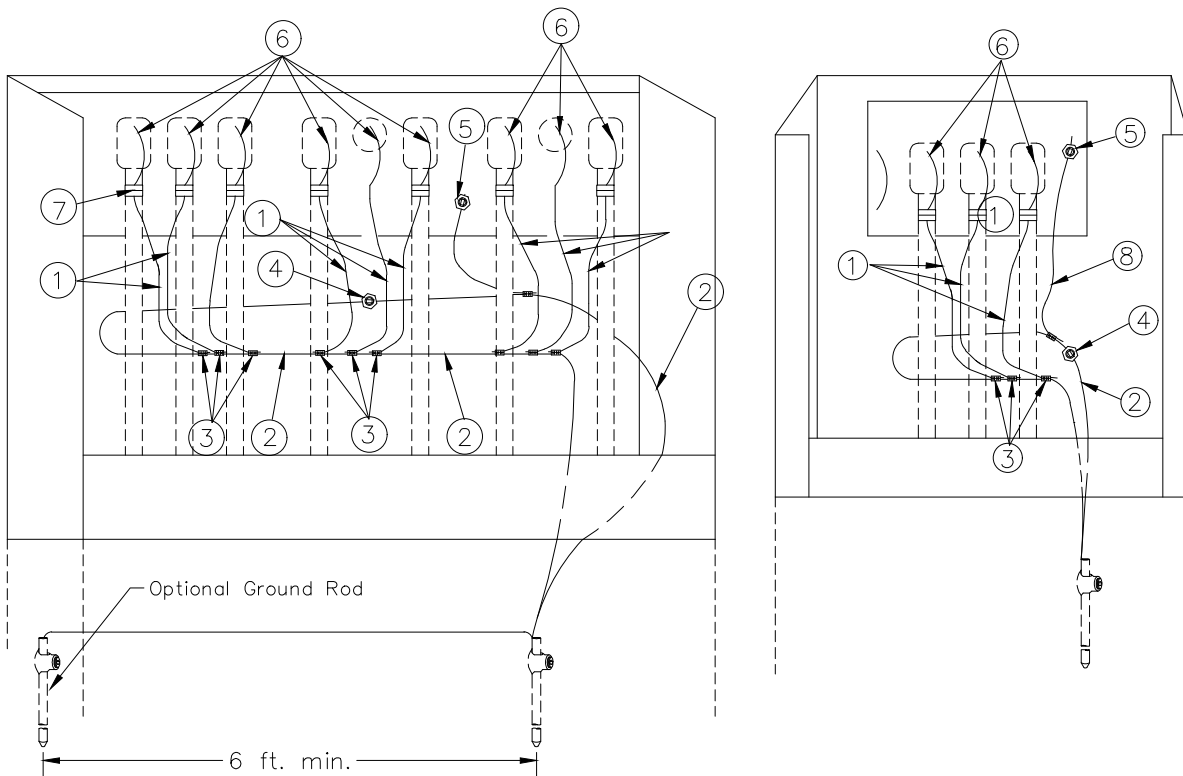
REFERENCE NO.	MATERIAL
①	Label cable for direction leaving sectionalizer
②	Seal cable
③	Neutral extension
④	Ground bus
⑤	Leave sufficient slack in cable for future terminating
⑥	Label cable per phase (A, B or C)
⑦	Parallel compression connector
⑧	Box grounding connector

INSTALLATION OF
NEUTRAL CONNECTION IN
ABOVE GRADE PEDESTAL

Sept. - 18

FDEC

UX4



NOTE:

1. LEAVE SUFFICIENT SLACK IN NEUTRAL EXTENSION AND GROUND BUS TO FACILITATE REMOVAL AND PARKING OF PRIMARY CABLES.
2. MULTIPLE GROUND RODS MAY NOT FIT INSIDE ENCLOSURE.
3. MULTIPLE GROUND RODS MAY NOT BE NECESSARY.

REFERENCE NO.	MATERIAL
①	Neutral extension
②	Ground bus
③	Parallel compression connector
④	Box grounding connector
⑤	Plate grounding connector
⑥	Bleed wire from elbow termination
⑦	Bleed wire compression connector
⑧	#6 SD CU

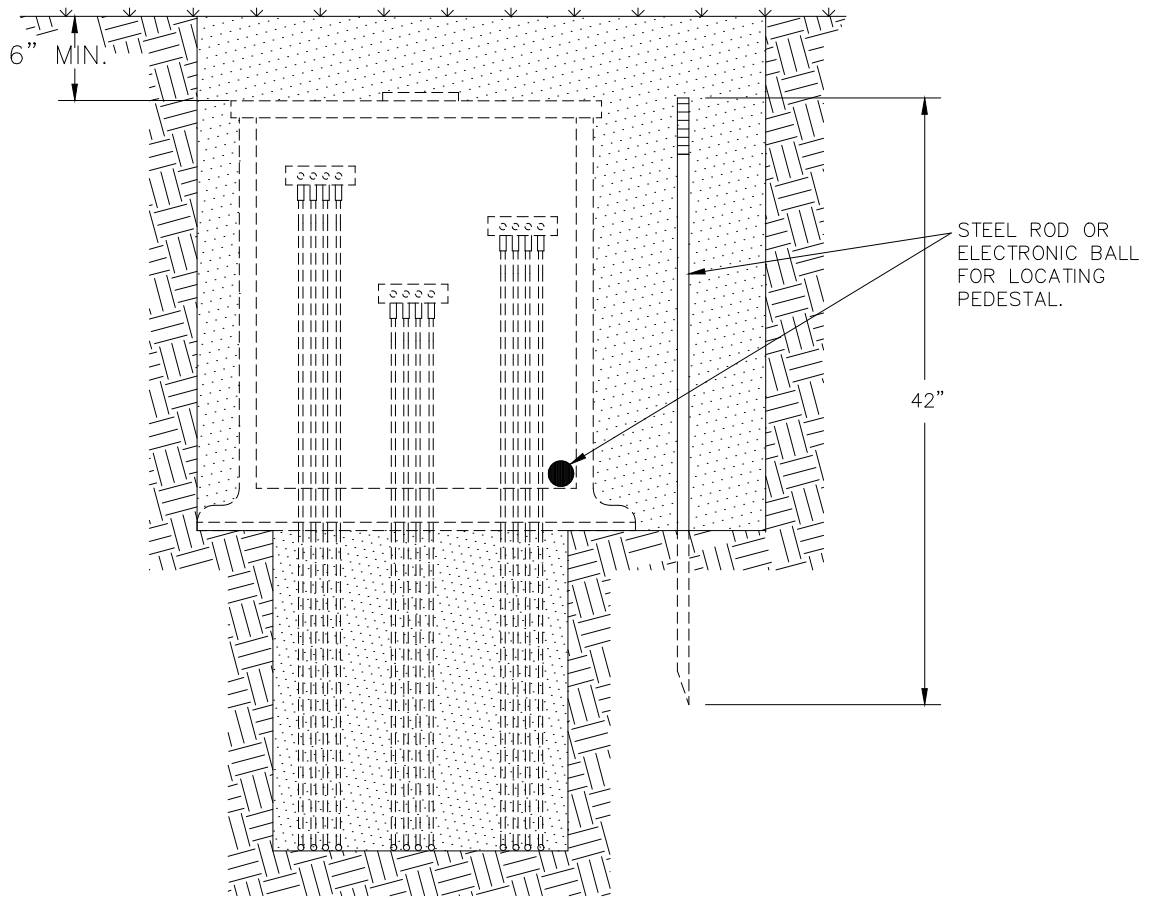
GUIDELINE ONLY

SECTIONALIZING PEDESTAL GROUNDING

Sept. - 18

FDEC

UX5



NOTE:

SEE DRAWING UK6

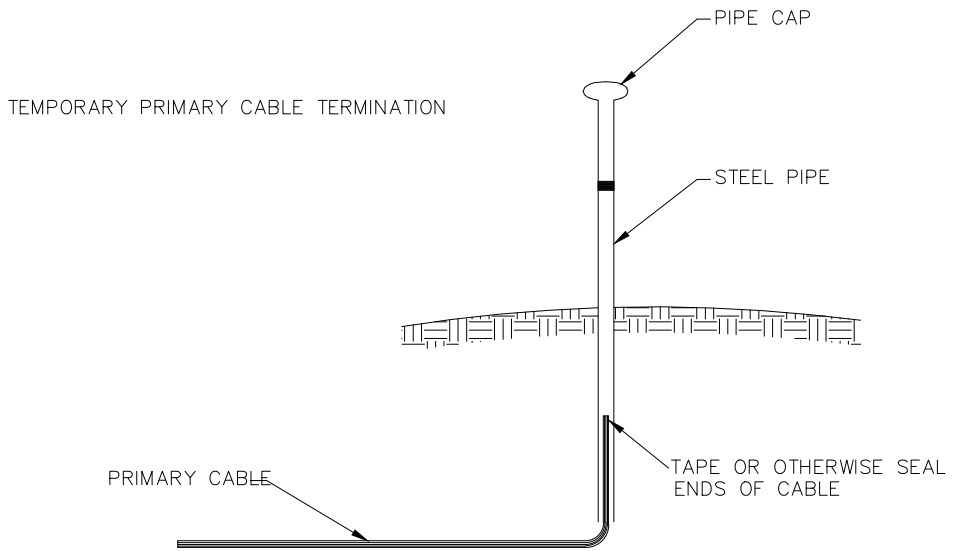
GUIDELINE ONLY

LOCATION METHODS FOR
BELOW GRADE ENCLOSURE

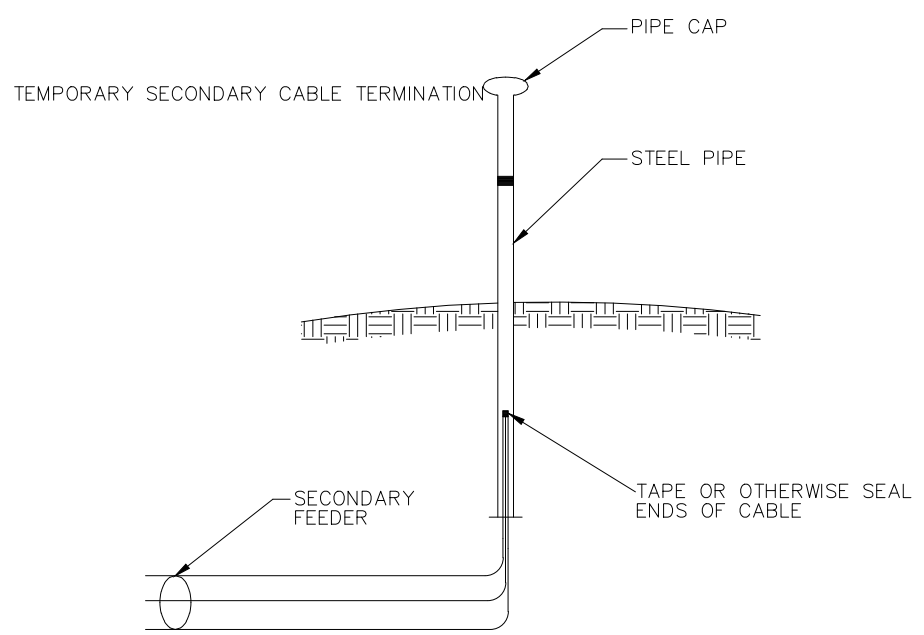
Sept. - 18

FDEC

UX7

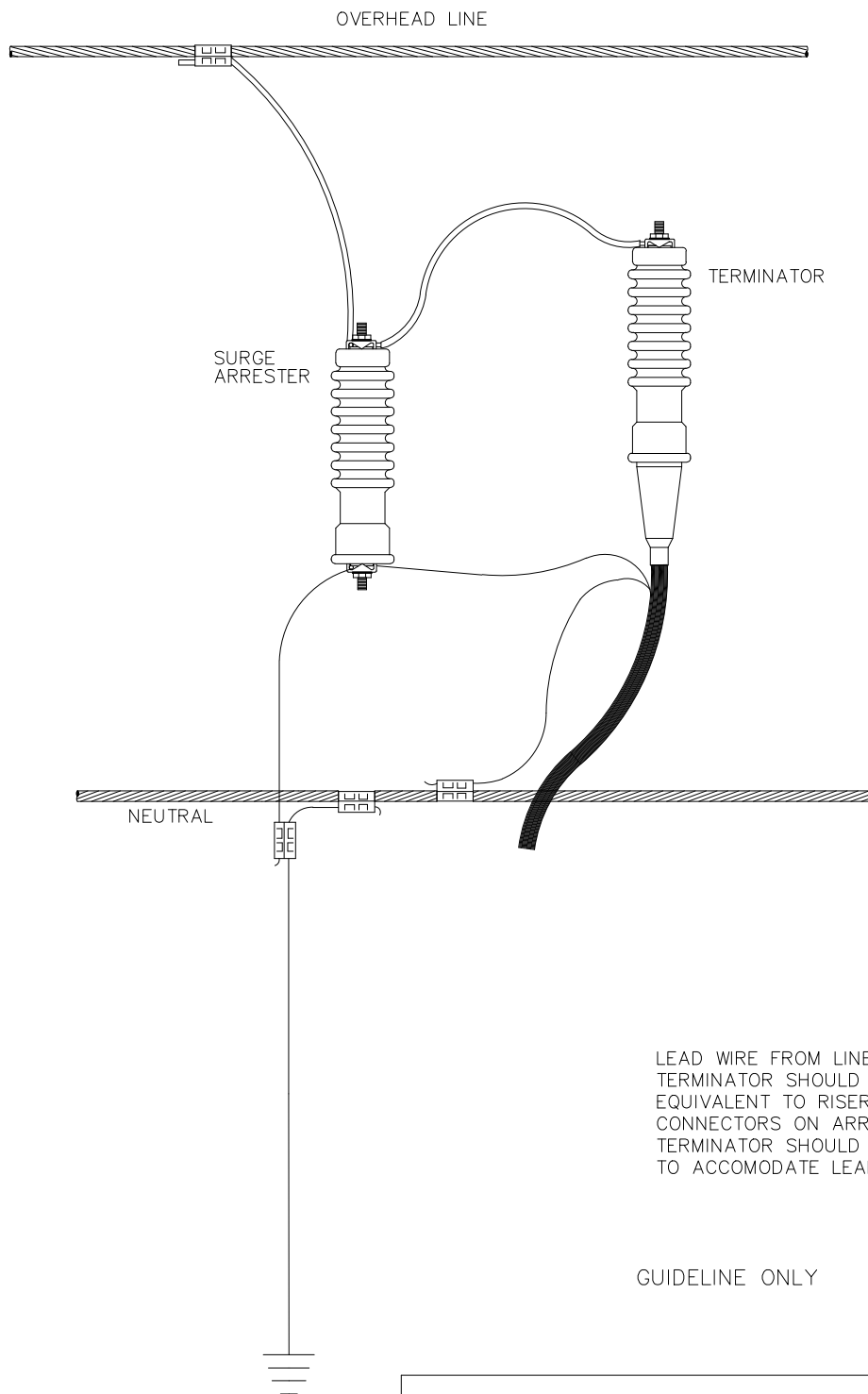


OR



GUIDELINE ONLY

TEMPORARY PRIMARY OR SECONDARY SECONDARY CABLE TERMINATION FOR FUTURE USE		
Sept. - 18		
FDEC		UX8



CONNECTION OF
TERMINATOR / ARRESTER
TO OVERHEAD LINE

Sept. - 18

FDEC

UX11