

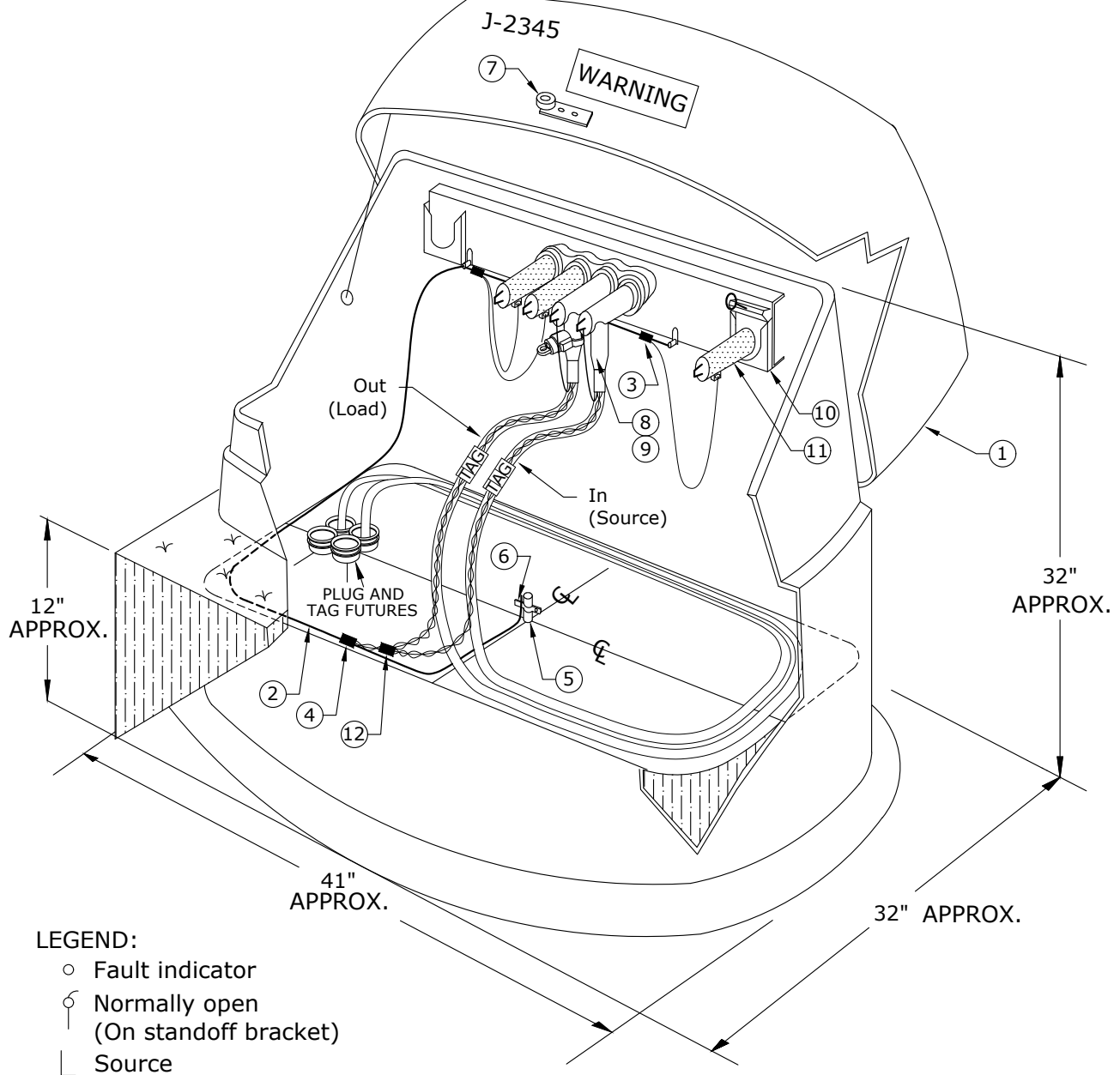
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UNDERGROUND J-BOXES & VAULTS

3/14/2023

~	UJ1	1Ø Junction Box 4-Way
~	UJ2	1Ø Junction Box 5-Way
~	UJ3	3Ø Junction Box 4-Way
~	UJ3F	3Ø Junction Box 4-Way Flush-Mount
~	UJ4	3Ø Junction Box 5-Way
~	UJM	Primary Junction Box 1Ø & 3Ø Material List
~	UJMP	Junction Box Marker
~	ULE	Loop Enclosure

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



Rev. 5 - Added "Plug and Tag Future Conduits" to drawings, added Notes #4-6, and corrected material issue.

UJM4	UJM41	UJM42	UJM44	UJM45	UJM46	UJM47	UJM48	UJM49

ITEM NO.	DESCRIPTION	QTY	S/N
1	Box, Junction, 1Ø, Fiberglass w/LBC4 Installed	1	194
2	Conductor, Cu, #4 Solid, 1C, Bare, Soft-Drawn	15	376
3	Connector, Crimpet, Cu, Run & Tap #6 Sol - #4 Str (4C4)	3	450
4	Connector, Crimpet, Cu, Run #4 Sol - #2 Str, Tap #8 Sol - #4 Str (2C4)	1	454
5	Rod, Ground 5/8" x 8'	1	1124
6	Clamp, Ground Rod, 5/8", Bronze, Small	1	281
7	Lock, Equipment, UG	1	837



CONSTRUCTION STANDARDS

1Ø JUNCTION BOX 4-WAY

REVISIONS

Δ	DATE	ENGR	OPS
2	9/23/04	LB	AH
3	12/29/04	LB	AH
4	4/29/09	CM	AH
5	3/12/20	CM	GM

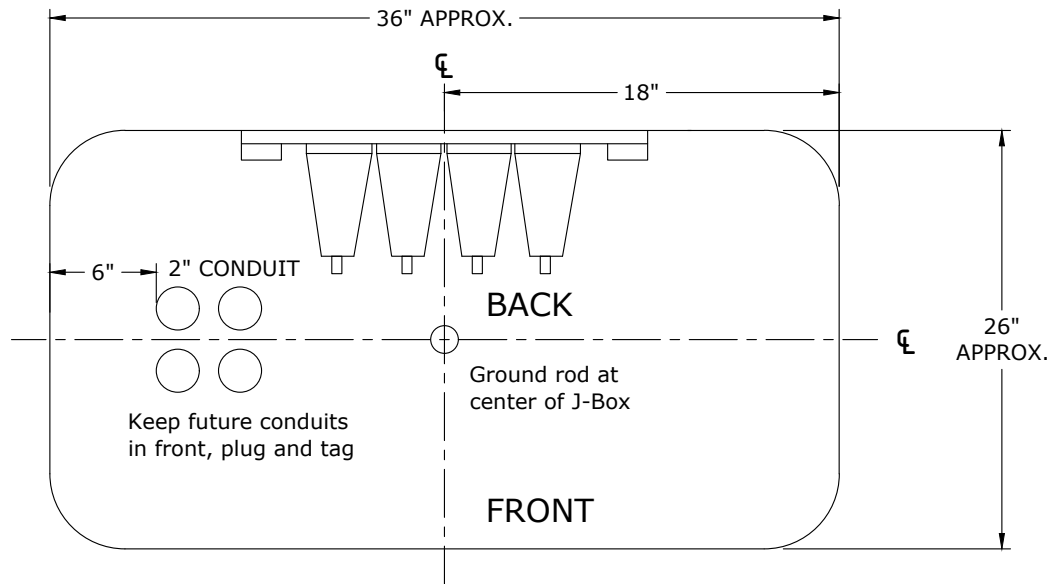
PAGE:
1 of 2

UJ1

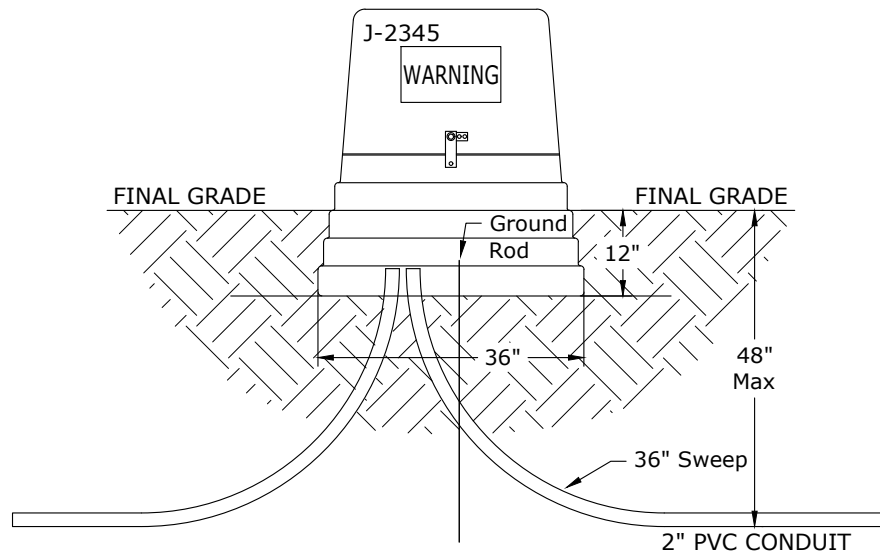
CAD FILE:
UJ1

APP: HWH/GGW
DATE: 1/22/80

SECTION
1500



Plan View 1-Phase J-Box



Primary J-Box Conduit Arrangement

Notes:

1. Typical elbow arrangement is shown.
2. Do not put dirt inside junction box. Space is required for cable slack and operating clearance.
3. Leave cable slack for future operations.
4. Future conduits shall be plugged w/
S/N 2697- 2" plastic conduit plug, or
S/N 2698- 4" plastic conduit plug.
5. Futures should be tagged with direction and length of conduit. See Std UID2.
6. Proof conduit and install sequentially numbered, 2500 lb mule tape in all futures.

Rev. 5 - Added "Plug and Tag Future Conduits" to drawings, added Notes #4-6, and corrected material issue.



CONSTRUCTION STANDARDS

1Ø JUNCTION BOX
4-WAY

PAGE:
2 of 2

UJ1

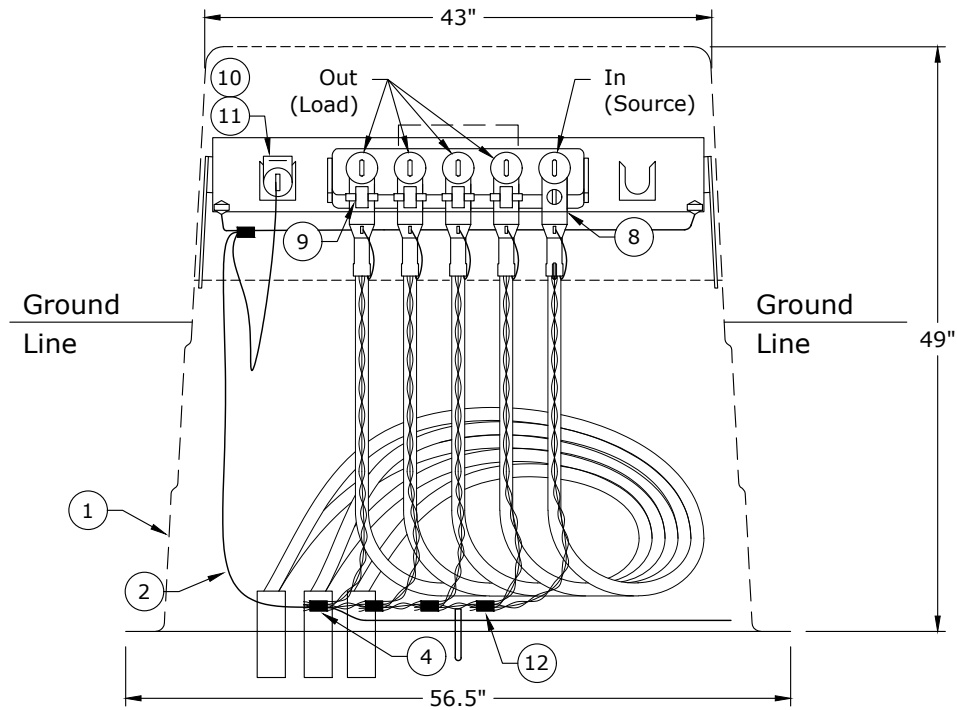
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UJ1

REVISIONS

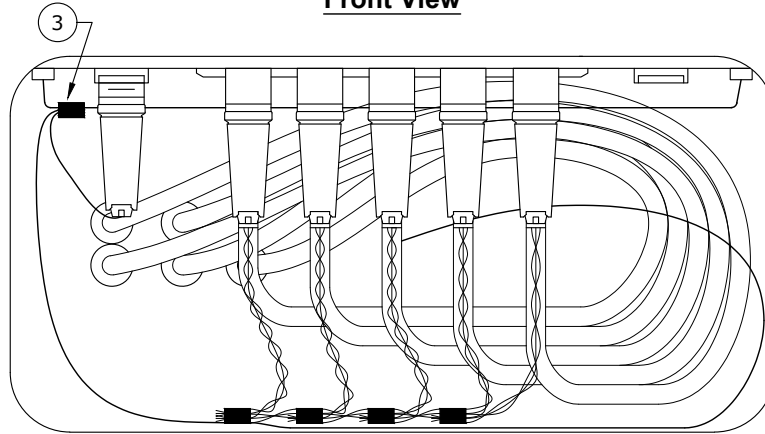
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3	12/29/04	LB	AH
4	4/29/09	CM	AH
5	3/12/20	CM	GM

APP: HWH/GGW
DATE: 1/22/80

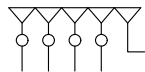
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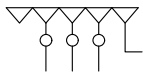
Front View



Top View



UJM5



UJM51

LEGEND:

○ Fault indicator

└ Source

ITEM	DESCRIPTION	QTY	S/N
1	Box, Jct., 1Ø, Fiberglass w/ LBC5 and 200A bushing inserts installed	1	2940
2	Conductor, Cu, #4 Sol, 1C, Bare, Soft Drawn	25	376
3	Connector, Crimpet, Cu, Run & Tap #6 Sol - #4 Str (4C4)	1	450
4	Connector, Crimpet, Cu, Run #4 Sol - #2 Str, Tap #8 Sol - #4 Str (2C4)	1	454
5	Rod, Ground 5/8" x 8'	1	1124
6	Clamp, Ground Rod 5/8", Bronze, Small	1	281
7	Lock, Equipment UG	1	837



CONSTRUCTION STANDARDS

1Ø JUNCTION BOX
5-WAY

REVISIONS

DATE	ENGR	OPS

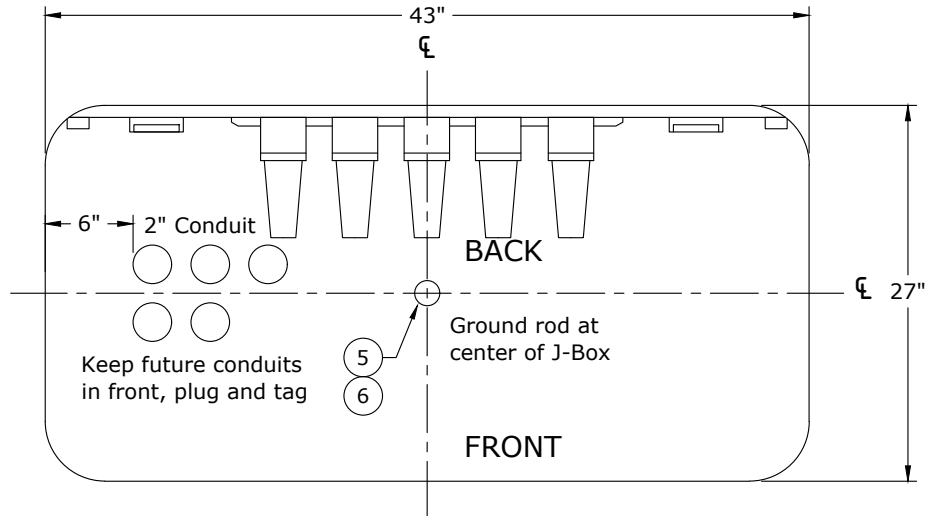
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UJ2

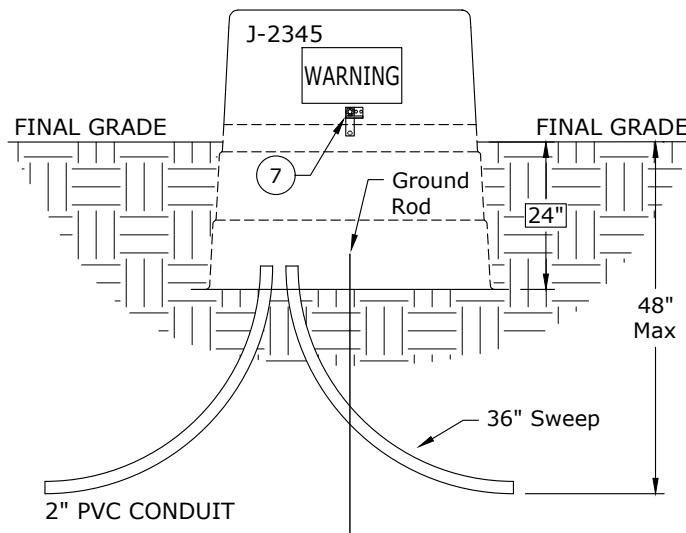
CAD FILE:
UJ2

APP: CM/GM
DATE: 3/12/20

SECTION
1500



Plan View



Primary J-Box Conduit Arrangement

Notes:

1. Typical elbow arrangement is shown.
2. Do not put dirt inside junction box. Space is required for cable slack and operating clearance.
3. Leave cable slack for future operations.
4. Future conduits shall be plugged with S/N 2697 - 2" plastic conduit plug, or S/N 2698 - 4" plastic conduit plug.
5. Futures should be tagged with direction and length of conduit. See Std UID2.
6. Proof conduit and install sequentially numbered, 2500 lb mule tape in all futures.



CONSTRUCTION STANDARDS

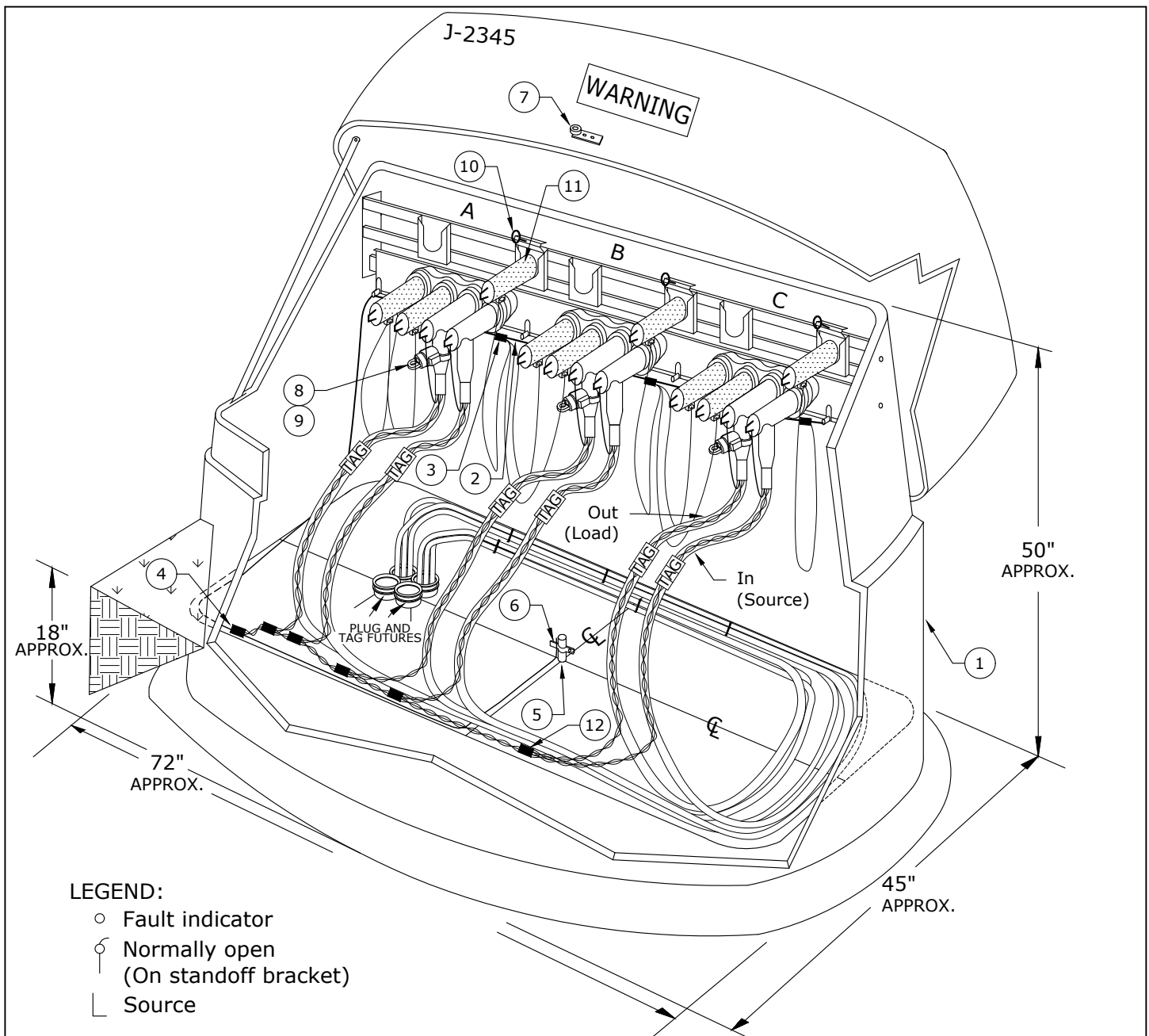
10 JUNCTION BOX
5-WAY

PAGE:
2 of 2

UJ2

CAD FILE:
UJ2

REVISIONS			
Δ	DATE	ENGR	OPS
APP: CM/GM		SECTION	
DATE: 3/12/20		1500	



Rev. 4 - Added "Plug and Tag Future Conduits" to drawings and Notes #4 - #6.

UJM4	UJM41	UJM42	UJM44	UJM45	UJM46	UJM47	UJM48	UJM49

ITEM NO.	DESCRIPTION	QTY	S/N
1	Box, Junction, 3Ø, Fiberglass w/LBC4 Installed, 49" High	1	2047
2	Conductor, Cu, #4 Solid, 1C, Bare, Soft-Drawn	25	376
3	Connector, Crimpet, Cu, Run & Tap #6 Sol - #4 Str (4C4)	5	450
4	Connector, Crimpet, Cu, Run #4 Sol - #2 Str, Tap #8 Sol - #4 Str (2C4)	1	454
5	Rod, Ground 5/8" x 8'	1	1124
6	Clamp, Ground Rod, 5/8", Bronze, Small	1	281
7	Lock, Equipment, UG	1	837



CONSTRUCTION STANDARDS

3Ø JUNCTION BOX
4-WAY

PAGE:
1 of 2

UJ3

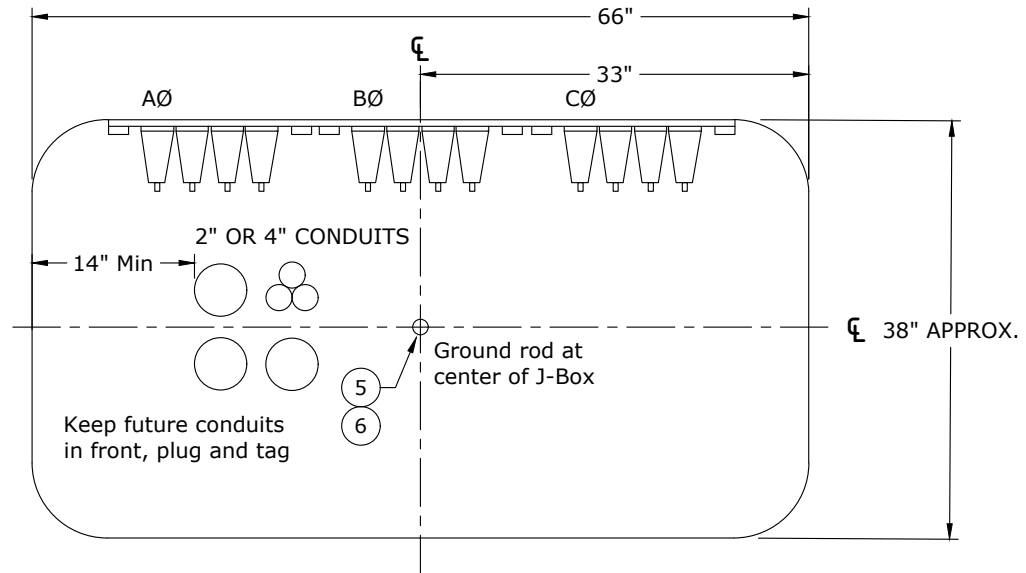
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UJ3

REVISIONS

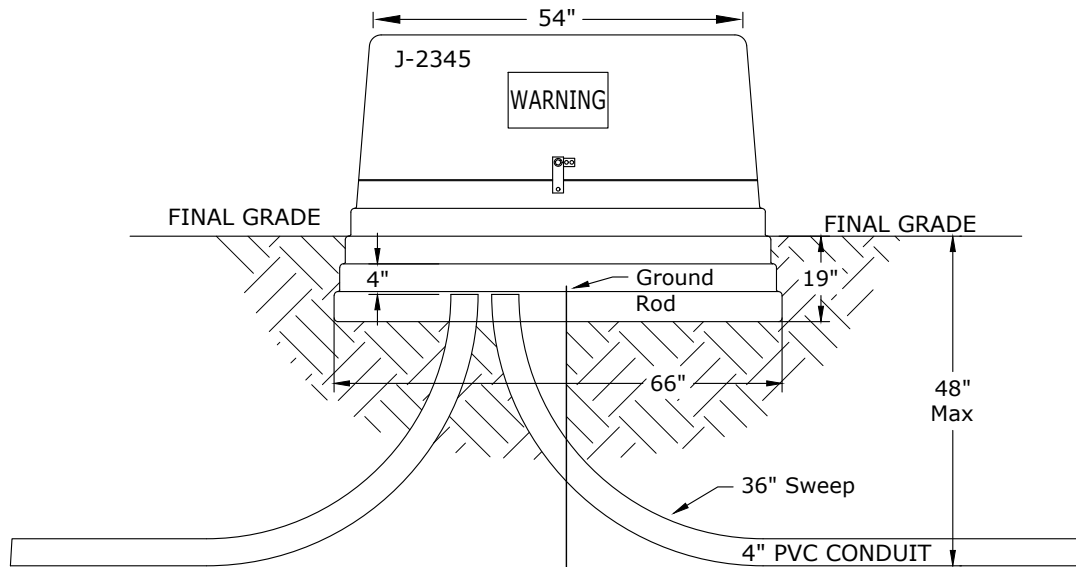
R	DATE	ENGR	OPS
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2	12/29/04	LB	AH
3	4/29/09	CM	AH
4	3/12/20	CM	GM

APP: HWH/GGW
DATE: 1/22/80

SECTION
1500



Plan View 3-Phase J-Box



Primary J-Box Conduit Arrangement

Notes:

1. Typical elbow arrangement is shown.
2. Do not put dirt inside junction box. Space is required for cable slack and operating clearance.
3. Leave cable slack for future operations.
4. Future conduits shall be plugged w/
S/N 2697- 2" plastic conduit plug, or
S/N 2698- 4" plastic conduit plug.
5. Futures should be tagged with direction and length of conduit. See Std UID2.
6. Proof conduit and install sequentially-numbered, 2500 lb, mule tape in all futures.

Rev. 4 - Added "Plug and Tag Future Conduits" to drawings and Notes #4 - #6.



CONSTRUCTION STANDARDS

3Ø JUNCTION BOX
4-WAY

PAGE:
2 of 2

UJ3

CAD FILE:
UJ3

REVISIONS

△ R	DATE	ENGR	OPS
1	9/23/04	LB	AH
2	12/29/04	LB	AH
3	4/29/09	CM	AH
4	3/12/20	CM	GM

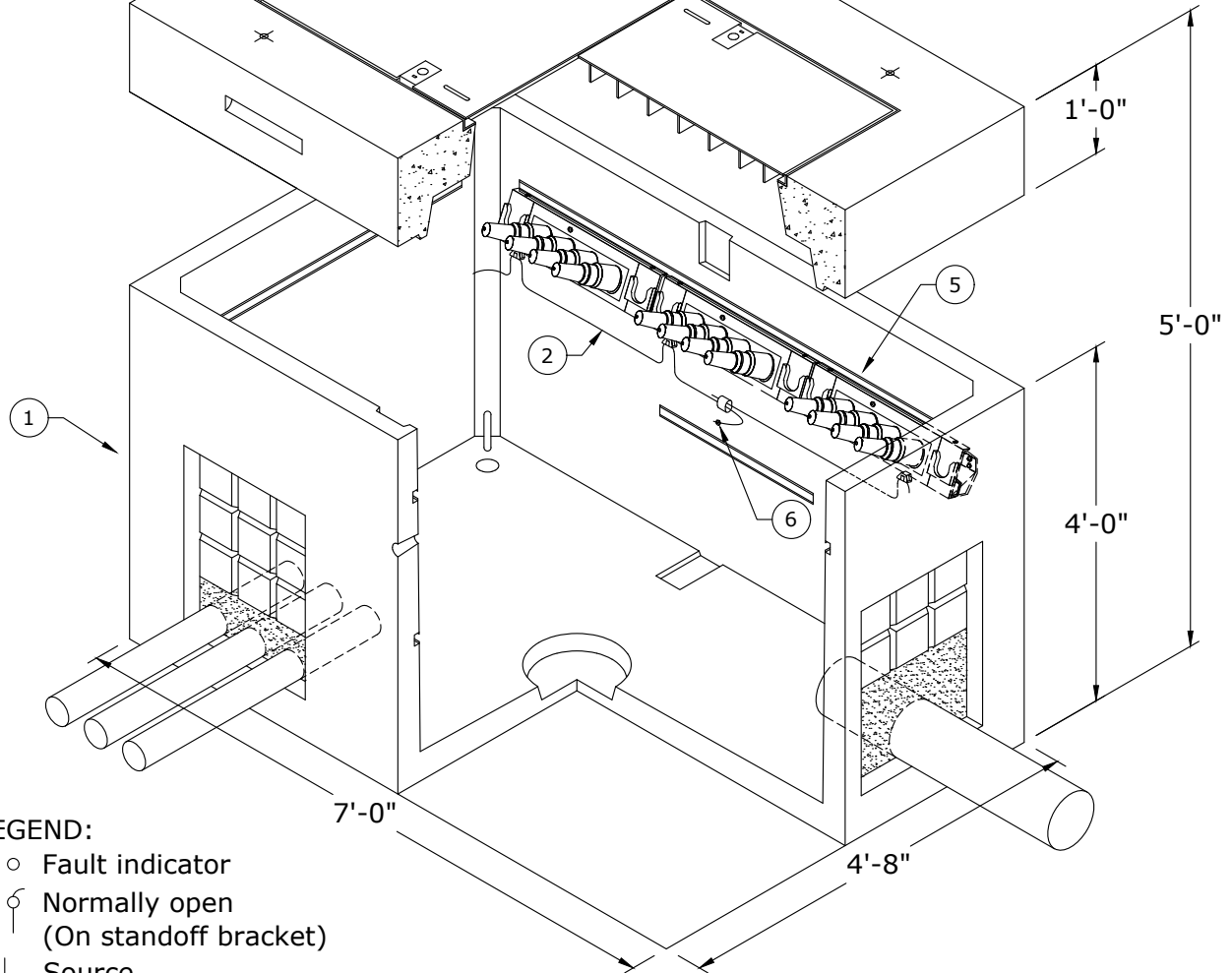
APP: HWH/GGW
DATE: 1/22/80

SECTION
1500

Lid
2,400 lb

Full 180° Open

NOTE: CPU will engrave J-box #
on brass plate



LEGEND:

- Fault indicator
- ⌋ Normally open
(On standoff bracket)
- └ Source

UJM4	UJM41	UJM42	UJM44	UJM45	UJM46	UJM47	UJM48	UJM49

ITEM NO.	DESCRIPTION	QTY	S/N
1	Vault, 575LA, Flush Mount J-box or EE, Ufer Ground, Non-Slip Lid	1	2722
2	Conductor, Cu, #4 Solid, 1C, Bare, Soft-Drawn	30	376
3	Connector, Crimpet, Cu, Run & Tap #6 Sol - #4 Str	7	450
4	Connector, Crimpet, Cu, Run #4 Sol - #2 Str, Tap #8 Sol - #4 Str	1	454
5	Module, LBC4 UG w/Bracket	3	900
6	Lug, Grounding, #8 Sol - 2/0 Str, 4-way	2	842



CONSTRUCTION STANDARDS
3Ø JUNCTION BOX
4-WAY
FLUSH-MOUNT

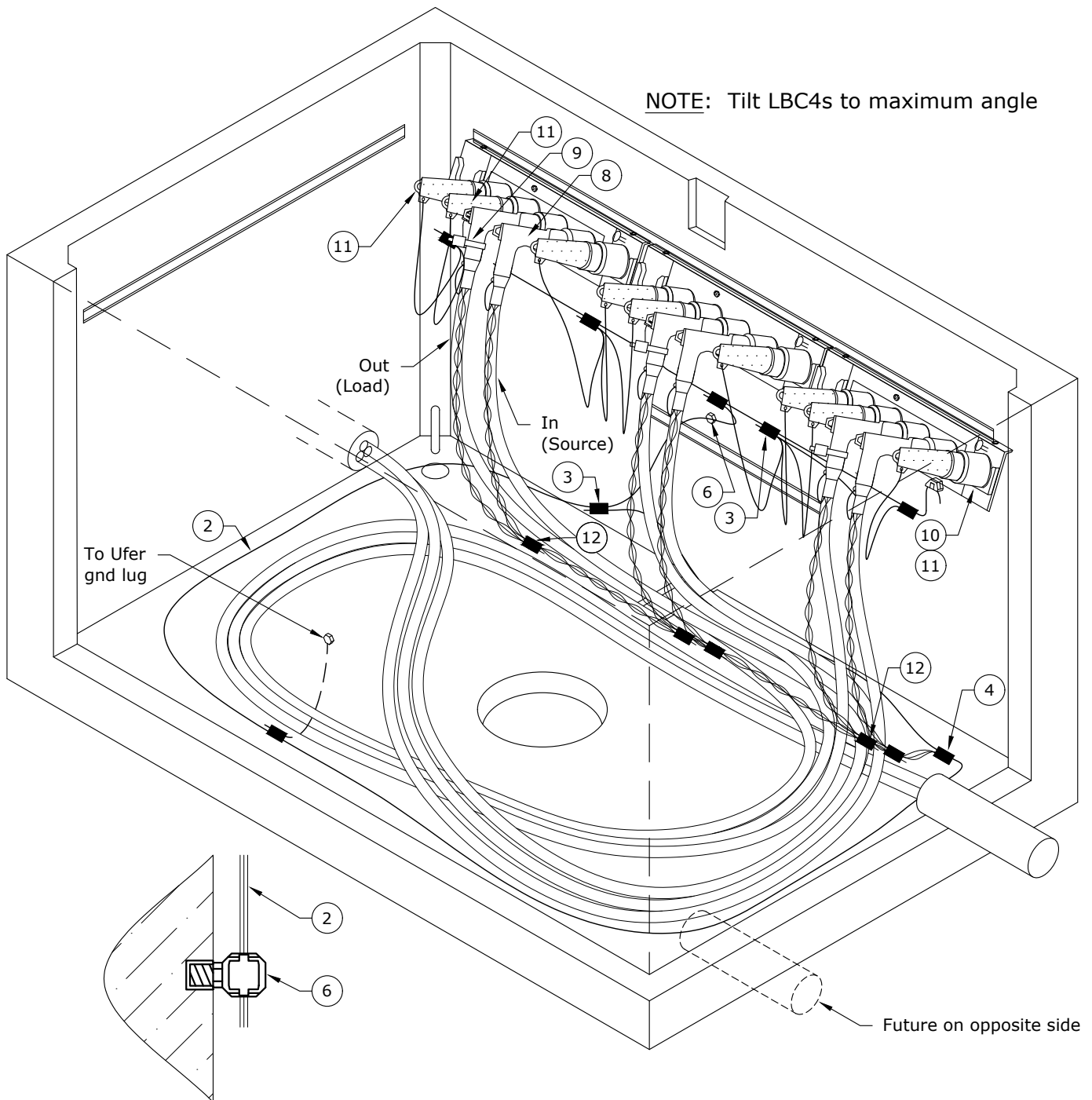
PAGE:
1 of 2

UJ3F

CAD FILE:
UJ3F

REVISIONS			
DATE	ENGR	OPS	
12/9/22	CRM	GM	
APP:	CM/GM	SECTION	
DATE:	3/12/20	1500	

NOTE: Tilt LBC4s to maximum angle



UFER GROUND CONNECTION

Notes:

1. Fully seal knockouts with grout around conduit.
2. Std UJM44 configuration shown in drawing.
3. See Std UJM for cable configurations and material items #8-12.
4. Bring concentrics down on front side of elbows. Leave cable slack for future operations.
5. Future conduits shall be plugged w/
S/N 2697 - 2" plastic conduit plug, or
S/N 2698 - 4" plastic conduit plug.
6. Futures should be tagged with direction and length of conduit. See Std UID2.
7. Proof conduit and install sequentially-marked, 2500 lb mule tape in all futures.



CONSTRUCTION STANDARDS

3Ø JUNCTION BOX
4-WAY
FLUSH-MOUNT

PAGE:
2 of 2

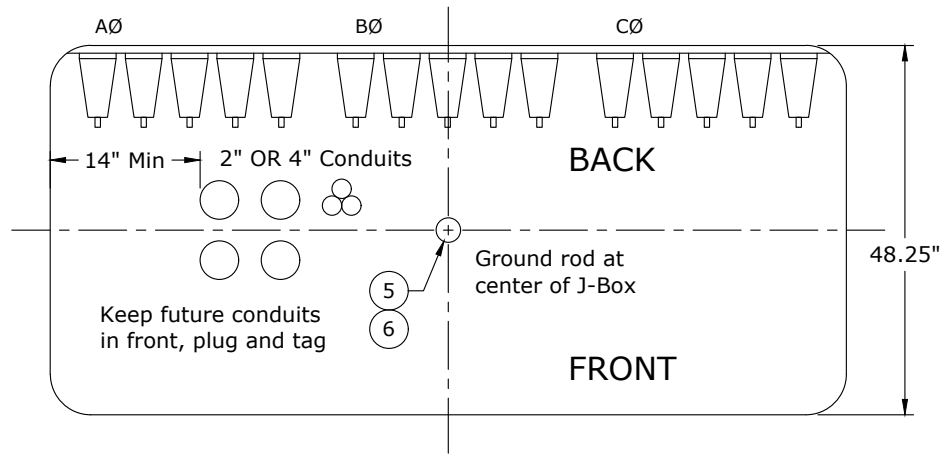
UJ3F

CAD FILE:
UJ3F

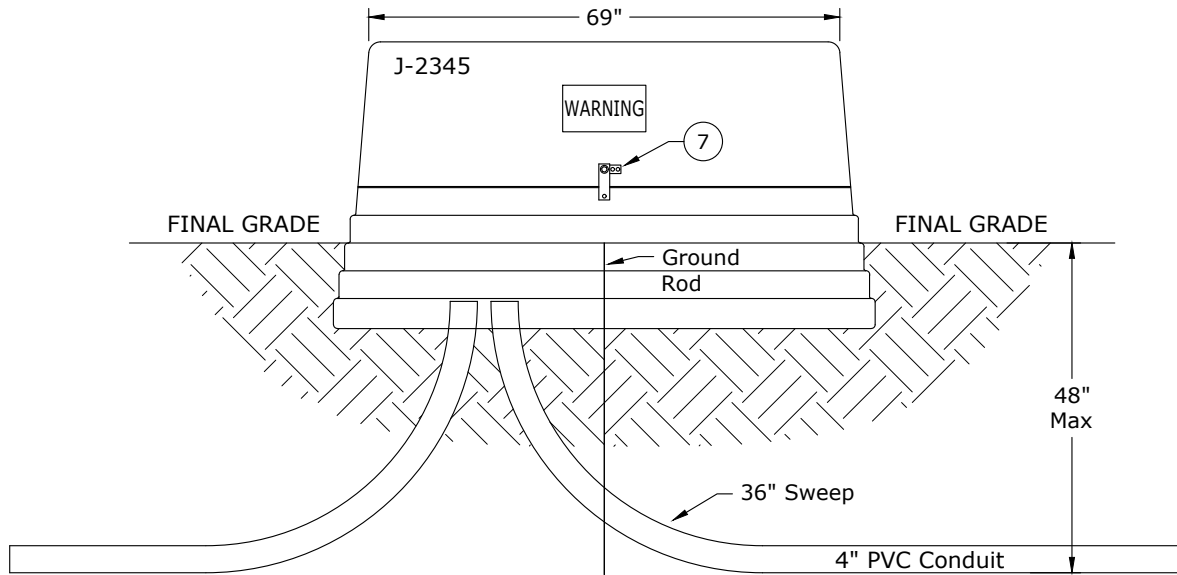
REVISIONS

Δ	DATE	ENGR	OPS
1	12/9/22	CRM	GM

APP:	CM/GM	SECTION
DATE:	3/12/20	1500



Plan View 3-Phase J-Box



Primary J-Box Conduit Arrangement

Notes:

1. Typical elbow arrangement is shown.
2. Do not put dirt inside junction box. Space is required for cable slack and operating clearance.
3. Leave cable slack for future operations.
4. Future conduits shall be plugged with S/N 2697- 2" plastic conduit plug, or S/N 2698- 4" plastic conduit plug.
5. Futures should be tagged with direction and length of conduit. See Std UID2.
6. Proof conduit and install sequentially numbered, 2500 lb mule tape in all futures.



CONSTRUCTION STANDARDS

3Ø JUNCTION BOX
5-WAY

PAGE:
2 of 2

UJ4

CAD FILE:
UJ4

REVISIONS

△ R	DATE	ENGR	OPS

APP: CM/GM
DATE: 3/12/20

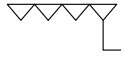
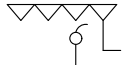
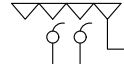
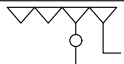
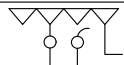
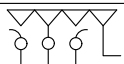
SECTION
1500

LEGEND:

- Fault indicator
- ⌋ Normally open
(On standoff bracket)
- └ Source

The following are for Standards UJ1, UJ3, and UJ3F:

Rev. 4 - Removed LBC4 (installed at factory) from material issue, corrected material issue, and added LBC5 configurations.

ITEM NO.	DESCRIPTION		UJM4	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		1	1312
10	Bushing, Standoff Insulated, 200A		1	252
11	Cap, Protective Insulated, 200A, 15kV UG		4	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		1	455
ITEM NO.	DESCRIPTION		UJM41	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		2	1312
9	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø		1	2694
10	Bushing, Standoff Insulated, 200A		1	252
11	Cap, Protective Insulated, 200A, 15kV UG		3	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		2	455
ITEM NO.	DESCRIPTION		UJM42	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		3	1312
9	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø		2	2694
10	Bushing, Standoff Insulated, 200A		2	252
11	Cap, Protective Insulated, 200A, 15kV UG		3	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		3	455
ITEM NO.	DESCRIPTION		UJM44	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		2	1312
9	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø		1	2694
10	Bushing, Standoff Insulated, 200A		1	252
11	Cap, Protective Insulated, 200A, 15kV UG		3	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		2	455
ITEM NO.	DESCRIPTION		UJM45	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		3	1312
9	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø		2	2694
10	Bushing, Standoff Insulated, 200A		1	252
11	Cap, Protective Insulated, 200A, 15kV UG		2	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		3	455
ITEM NO.	DESCRIPTION		UJM46	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		4	1312
9	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø		3	2694
10	Bushing, Standoff Insulated, 200A		2	252
11	Cap, Protective Insulated, 200A, 15kV UG		2	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		4	455



CONSTRUCTION STANDARDS

PRIMARY JUNCTION BOX
SINGLE AND THREE PHASE
MATERIAL LIST

PAGE:

1 of 2

UJM

CAD FILE:

UJM

REVISIONS

REV	DATE	ENGR	OPS
1	9/23/04	LB	AH
2	12/29/04	LB	AH
3	4/29/09	CM	AH
4	3/12/20	CM	GM

APP: HWH/GGD

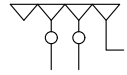
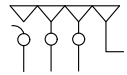
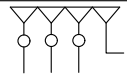
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SECTION

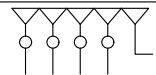
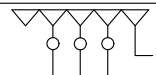
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The following are for Standards UJ1, UJ3, and UJ3F:

Rev. 4 - Removed LBC4 (installed at factory) from material issue, corrected material issue, and added LBC5 configurations.

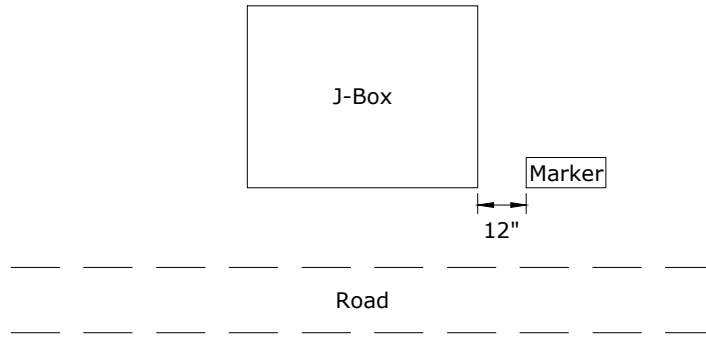
ITEM NO.	DESCRIPTION		UJM47	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		3	1312
9	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø		2	2694
10	Bushing, Standoff Insulated, 200A		1	252
11	Cap, Protective Insulated, 200A, 15kV UG		2	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		3	455
ITEM NO.	DESCRIPTION		UJM48	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		4	1312
9	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø		3	2694
10	Bushing, Standoff Insulated, 200A		1	252
11	Cap, Protective Insulated, 200A, 15kV UG		1	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		4	455
ITEM NO.	DESCRIPTION		UJM49	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		4	1312
9	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø		3	2694
10	Bushing, Standoff Insulated, 200A		1	252
11	Cap, Protective Insulated, 200A, 15kV UG		1	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		4	455

The following are for Standards UJ2 and UJ4:

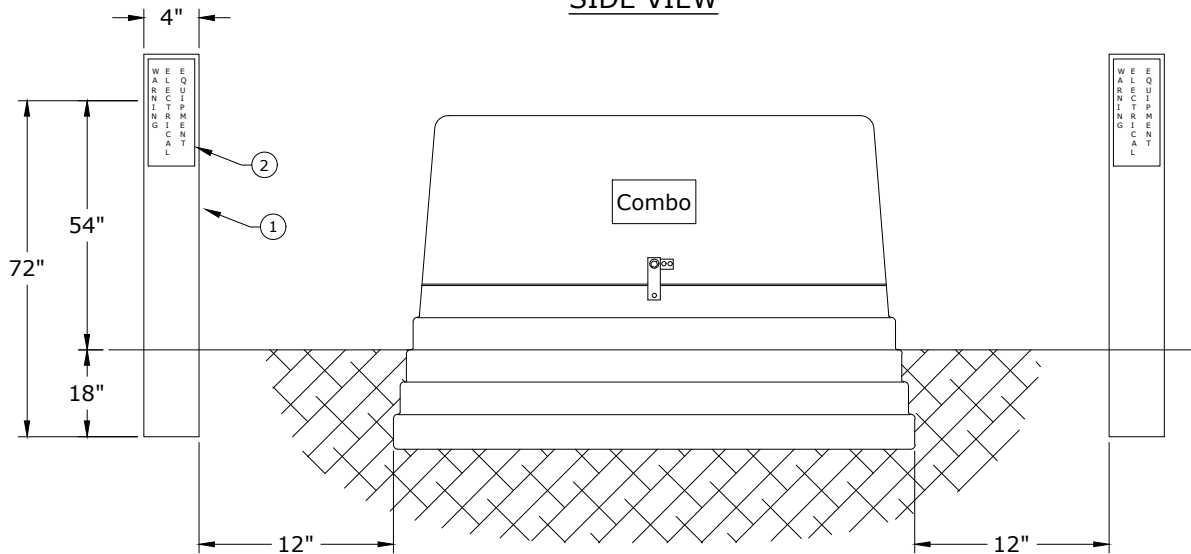
ITEM NO.	DESCRIPTION		UJM5	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		5	1312
9	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø		4	2694
10	Bushing, Standoff Insulated, 200A		1	252
11	Cap, Protective Insulated, 200A, 15kV UG		1	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		5	455
ITEM NO.	DESCRIPTION		UJM51	
			QTY.	S/N
8	Elbow, 200A, LB, 1/0, 175 & 220 mil, Test Point, 15kV, w/Jacket Seal		4	1312
9	Indicator, Fault, UG, 400A, Test Point, Voltage Reset, 1Ø		3	2694
10	Bushing, Standoff Insulated, 200A		1	252
11	Cap, Protective Insulated, 200A, 15kV UG		2	265
12	Connector, Crimpet, Cu, Run & Tap #2 Sol - #2 Str (2C2)		4	455

	CONSTRUCTION STANDARDS PRIMARY JUNCTION BOX SINGLE AND THREE PHASE MATERIAL LIST			REVISIONS			
				REV	DATE	ENGR	OPS
				1	9/23/04	LB	AH
				2	12/29/04	LB	AH
PAGE: 2 of 2	UJM		CAD FILE: UJM	APP: HWH/GGD		SECTION 1500	
				DATE: 1/22/80			

TOP VIEW



SIDE VIEW

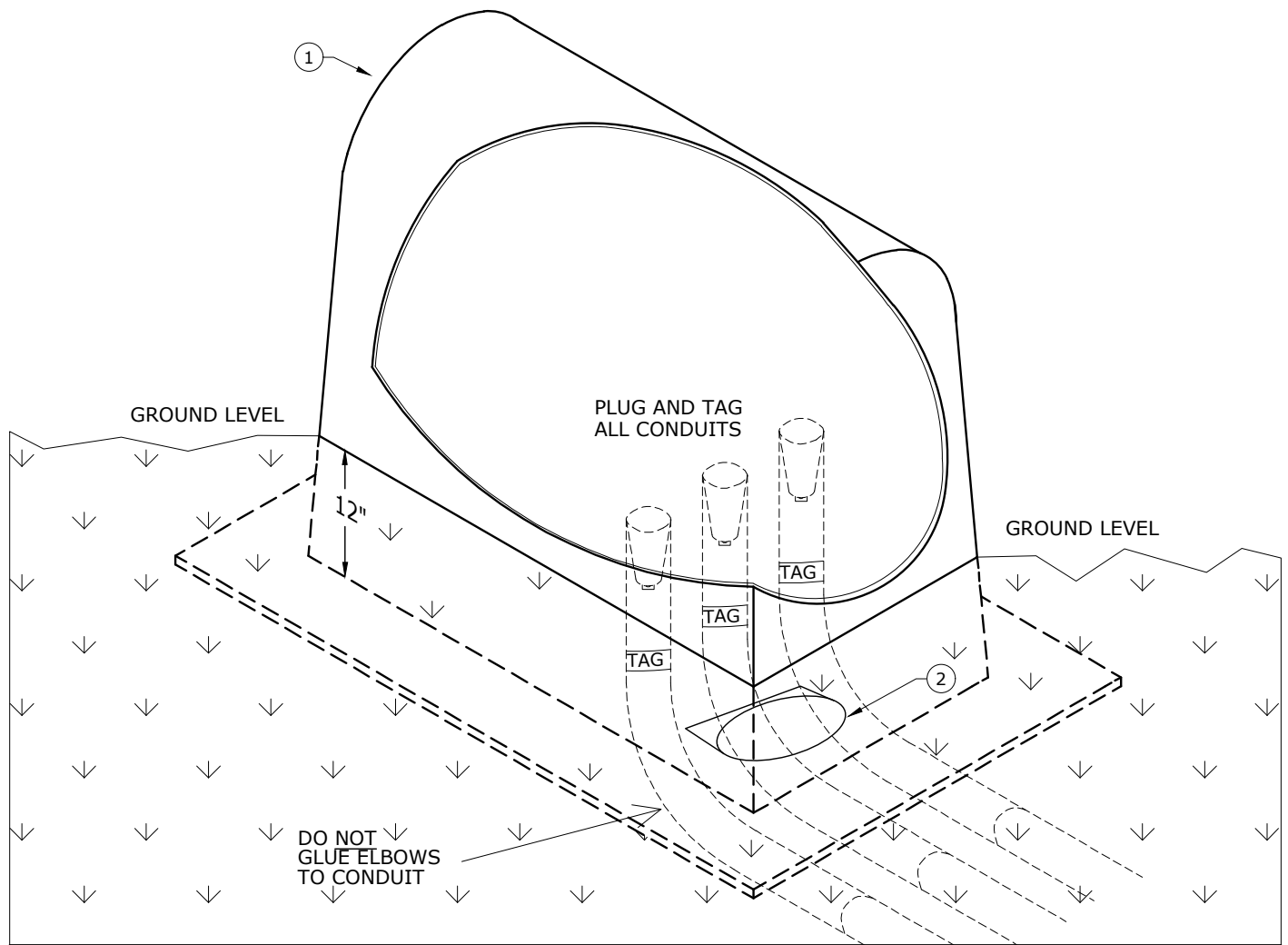


Notes:

1. Use marker when view of J-box may be obscured by terrain or foliage.
2. Call for locates before installing.

ITEM NO.	DESCRIPTION	UJMP	
		QTY.	S/N
1	Marker, Post, Red, 6', Electrical Equipment	2	2896
2	Marker, Post, Marker, Electrical Equipment	2	2893

		CONSTRUCTION STANDARDS JUNCTION BOX MARKER		REVISIONS			
					DATE	ENGR	OPS
PAGE: 1 of 1		UJMP		CAD FILE: UJMP		APP: CM/GM DATE: 3/12/20	SECTION 1500



Notes:

1. Bury approximately one foot of the enclosure.
2. Conduits shall be buried 42" to 48" deep unless otherwise approved by CPU.
3. The disc marker is to be installed flat with the instructions facing up.
4. The disc should be placed in radius of elbow.
5. CPU has the locator for finding these markers.
6. The markers are reusable.
7. Loop enclosures and marker discs provided by CPU.
8. All conduits shall be plugged w/
S/N 2697- 2" plastic conduit plug or
S/N 2698- 4" plastic conduit plug.
9. All conduits should be tagged with direction and length of conduit. See Std. UID2.
10. Proof conduit and install sequentially-numbered, 2500 lb, mule tape in all futures.

Rev. 2 - Added Notes #8, #9, & #10 and added plugs and tags to drawings.

ITEM	DESCRIPTION	QTY	S/N
1	Enclosure, Cable Loop, Fiberglass, 30" x 30" x 8" w/ 5" Flange	1	1821
2	Marker, UG, Disc, Full Range	1	2210

		CONSTRUCTION STANDARDS LOOP ENCLOSURE		REVISIONS		
				DATE	ENGR	OPS
0	9/23/04	LB	AH			
1	12/29/04	LB	AH			
2	3/12/20	CM	GM			

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