
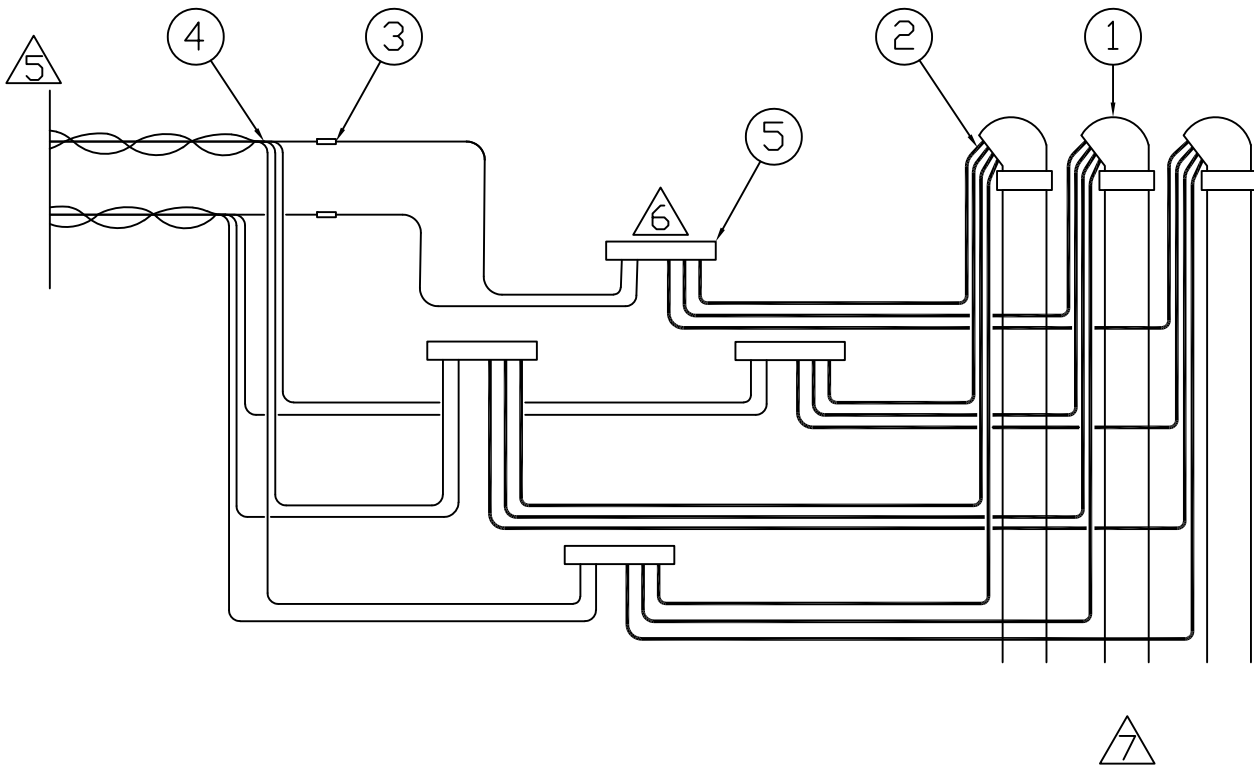


STANDARD SERVICE DROP CONDUCTORS

SERVICE DISCONNECT AMPACITY	# OF SERVICE PHASES	SERVICE DROP CONDUCTOR SIZE & TYPE	C.U. SERVICE DROP RATED AMPACITY	MAXIMUM SERVICE DROP LENGTH
100 AMP	1 PH	#4 TPX ALUM	100 AMP	100'
100 AMP	1 / 3 PH	#1/0 QUAD ALUM	180 AMP	60'
200 AMP	1 PH	#2 TPX ALUM	135 AMP	80'
200 AMP	1 / 3 PH	#1/0 QUAD ALUM	180 AMP	60'
320-400 AMP	1 PH	#4/0 TPX ALUM	280 AMP	60'
320-400 AMP	1 / 3 PH	#4/0 QUAD ALUM	280 AMP	50'
600 AMP	1 PH	3 - #4/0 WP CU	360 AMP	50'
600 AMP	1 PH	2 RUNS - 1/0 TPX ALUM	360 AMP	50'
600 AMP	1 / 3 PH	4 - #4/0 WP CU	360 AMP	45'
600 AMP	1 / 3 PH	2 RUNS - 1/0 QUAD ALUM	360 AMP	45'
800 AMP	1 PH	3 - 350 MCM WP CU	505 AMP	45'
800 AMP	1 PH	2 RUNS - 4/0 TPX ALUM	560 AMP	45'
800 AMP	1 / 3 PH	4 - 350 MCM WP CU	505 AMP	40'
800 AMP	1 / 3 PH	2 RUNS - 4/0 QUAD ALUM	560 AMP	40'
1000 AMP	1 PH	3 - 350 MCM WP CU	505 AMP	45'
1000 AMP	1 PH	2 RUNS - 4/0 TPX ALUM	560 AMP	40'
1000 AMP	1 / 3 PH	4 - 350 MCM WP CU	505 AMP	40'
1000 AMP	1 / 3 PH	2 RUNS - 4/0 QUAD ALUM	560 AMP	35'
1200 AMP	1 PH	3 - 500 MCM WP CU	620 AMP	40'
1200 AMP	1 / 3 PH	4 - 500 MCM WP CU	620 AMP	35'

	<i>GENERAL NOTES</i>		ELECTRIC SERVICE STANDARD CITY UTILITIES OF SPRINGFIELD MO.					
	<ol style="list-style-type: none"> 1. ALL NEW THREE PHASE SERVICES SHALL BE A COMBINATION 1 PH/3 PH SERVICE. 2. WHEN WORKING ON AN EXISTING SERVICE REWIRE, CONTACT CITY UTILITIES TO DETERMINE GUIDELINES FOR THESE SERVICES. 3. THIS TABLE ASSUMES A 50% LOAD FACTOR. IF CALCULATED LOADS ARE AVAILABLE, THE SERVICE DROP CONDUCTOR SIZES MAY BE ADJUSTED. 4. MAXIMUM SERVICE DROP LENGTHS ARE BASED ON MECHANICAL LIMITATION AND DO NOT TAKE INTO CONSIDERATION POWER QUALITY ISSUES (VOLTAGE DROP, FLICKER, ETC.). SEE POWER QUALITY GUIDELINES. 		SERVICE OVERHEAD SERVICE DROP CONDUCTOR APPLICATION GUIDE					
			DRAWN BY: G.GUEVARA		REV BY: K.DENTON		FILE: SO-GN41	
			APPROVED: 10/29/14		REVISED: 02/20/18		SHEET OF 1 OF 2	
				STD. NO. SO - GN4				



MATERIAL LIST

QTY.	DESCRIPTION	STOCK NO.	QTY.	DESCRIPTION	STOCK NO.
FURNISHED and INSTALLED BY CUSTOMER.			FURNISHED and INSTALLED BY CITY UTILITIES.		
1. AS REQD	CUSTOMERS MULTIPLE RISER CONDUITS AND WEATHER HEADS.		4. AS REQD	#1/0 ALUM. TRIPLEX CONDUCTOR.	101124
2. AS REQD	CUSTOMERS SERVICE ENTRANCE CONDUCTORS.			OR #1/0 ALUM. QUADRAPLEXED CONDUCTOR.	101123
3. AS REQD	SERVICE DROP ATTACHMENT POINT. (FURNISHED BY CITY UTILITIES. INSTALLED BY CUSTOMER.)			OR #4/0 ALUM. TRIPLEX CONDUCTOR.	149453
				OR #4/0 ALUM. QUADRAPLEXED CONDUCTOR.	101132
			5. 4	SIZE AS REQUIRED. INSULATED BAR, 8-PORT, (#6-500 MCM).	148670
				OR INSULATED BAR, 6-PORT, (#6-500 MCM).	148697
				OR INSULATED BAR, 6-PORT, (250 MCM-750 MCM).	149480
				OR INSULATED BAR, 8-PORT, (250 MCM-750 MCM).	149507
				OR INSULATED BAR, 4-PORT, (#10-350 MCM).	109031



GENERAL NOTES

- WHEN INSTALLING TWO RUNS OF TRIPLEX OR QUADRAPLEX CONDUCTORS, CONNECT THE TRANSFORMER LEADS TO THE SERVICE DROP CONDUCTORS, USING CONNECTORS AS DETAILED IN ITEM #5 ON SHEET #2 OF THIS STANDARD.
- AT THE CONNECTION POINT BETWEEN CITY UTILITIES TRIPLEX OR QUADRAPLEX CONDUCTORS, AND THE CUSTOMERS SERVICE ENTRANCE CONDUCTORS, ALL LIKE PHASES OF BOTH SETS OF CONDUCTORS SHALL BE CONNECTED TOGETHER IN A COMMON CONNECTOR.
- ALL MATCHING PHASES OF THE CUSTOMERS SERVICE ENTRANCE CONDUCTORS SHALL BE CONNECTED TOGETHER IN A GUTTER, A SINGLE SERVICE DISCONNECT, OR OTHER SERVICE EQUIPMENT.

**ELECTRIC SERVICE STANDARD
CITY UTILITIES OF SPRINGFIELD MO.**

DRAWN BY: FOWLER	SERVICE OVERHEAD SERVICE DROP CONDUCTOR APPLICATION GUIDE		
REV BY: K.DENTON			
FILE: SO-GN42			
APPROVED: 10/29/14	REVISED: 02/20/18	SHEET OF 2 2	STD. NO. SO-GN4