



1 ELECTRICAL SINGLE LINE DIAGRAM
 SCALE: N.T.S.
NOTES BY SYMBOLS
 1 PROVIDE WIRING AND CONDUIT BETWEEN CT CABINET AND METER AS REQUIRED BY UTILITY REQUIREMENTS.

COPPER WIRING FEEDER SCHEDULE			
AMP RATING	FEEDER TAG	CONDUCTOR	RACEWAY SIZE
60	60Y	3 #6 AWG + 1 #6 AWG NEUTRAL + 1 #10 AWG GROUND	1"
	60K	3 #6 AWG + 1 #4 AWG NEUTRAL + 1 #10 AWG GROUND	1 1/2"
	60G	3 #6 AWG + 1 #6 AWG NEUTRAL + 1 #10AWG GROUND + 1 #10 AWG ISOLATED GROUND	1 1/2"
	70Y	3 #4 AWG + 1 #4 AWG NEUTRAL + 1 #8 AWG GROUND	1 1/2"
70	70K	3 #4 AWG + 1 #1/0 AWG NEUTRAL + 1 #8 AWG GROUND	1 1/2"
	70G	3 #4 AWG + 1 #4 AWG NEUTRAL + 1 #8 AWG GROUND + 1 #8 AWG ISOLATED GROUND	1 1/2"
	100Y	3 #1 AWG + 1 #1 AWG NEUTRAL + 1 #8 AWG GROUND	1 1/2"
100	100K	3 #1 AWG + 1 #3/0 AWG NEUTRAL + 1 #8 AWG GROUND	2"
	100G	3 #1 AWG + 1 #1/0 AWG NEUTRAL + 1 #8 AWG GROUND + 1 #8 AWG ISOLATED GROUND	2"
	125Y	3 #1/0 AWG + 1 #1/0 AWG NEUTRAL + 1 #6 AWG GROUND	2"
125	125K	3 #1/0 AWG + 2 #1/0 AWG NEUTRAL + 1 #6 AWG GROUND	2 1/2"
	125G	3 #1/0 AWG + 1 #1/0 AWG NEUTRAL + 1 #6 AWG GROUND + 1 #6 AWG ISOLATED GROUND	2 1/2"
	150Y	3 #1/0 AWG + 1 #1/0 AWG NEUTRAL + 1 #6 AWG GROUND	2"
150	150K	3 #1/0 AWG + 2 #1/0 AWG NEUTRAL + 1 #6 AWG GROUND	2 1/2"
	150G	3 #1/0 AWG + 1 #1/0 AWG NEUTRAL + 1 #6 AWG GROUND + 1 #6 AWG ISOLATED GROUND	2 1/2"
	175Y	3 #2/0 AWG + 1 #2/0 AWG NEUTRAL + 1 #6 AWG GROUND	2"
175	175K	3 #2/0 AWG + 2 #2/0 AWG NEUTRAL + 1 #6 AWG GROUND	2 1/2"
	175G	3 #2/0 AWG + 1 #2/0 AWG NEUTRAL + 1 #6 AWG GROUND + 1 #6 AWG ISOLATED GROUND	2 1/2"
200	200K	3 #3/0AWG + 1 #3/0AWG NEUTRAL + 1 #6AWG GROUND	2"
	200G	3 #3/0AWG + 2 #3/0AWG NEUTRAL + 1 #6AWG GROUND	2 1/2"
	200Y	3 #3/0AWG + 1 #3/0AWG NEUTRAL + 1 #6AWG GROUND + 1 #6 AWG ISOLATED GROUND	2 1/2"
225	225Y	3 #4/0AWG + 1 #4/0AWG NEUTRAL + 1 #4AWG GROUND	2 1/2"
	225K	3 #4/0AWG + 2 #4/0AWG NEUTRAL + 1 #4AWG GROUND	2 1/2"
	225G	3 #4/0AWG + 1 #4/0AWG NEUTRAL + 1 #4 AWG GROUND + 1 #4 AWG ISOLATED GROUND	2 1/2"
250	250Y	3 #250 KCMIL + 1 #250 KCMIL NEUTRAL + 1 #4 AWG GROUND	3"
	250K	3 #250 KCMIL + 2 #250 KCMIL NEUTRAL + 1 #4 AWG GROUND	3"
	250G	3 #250 KCMIL + 1 #250 KCMIL NEUTRAL + 1 #4 AWG GROUND + 1 #4 AWG ISOLATED GROUND	3"
300	300Y	3 #350 KCMIL + 1 #350 KCMIL NEUTRAL + 1 #4 AWG GROUND	3"
	300K	3 #350 KCMIL + 2 #350 KCMIL NEUTRAL + 1 #4 AWG GROUND	3"
	300G	3 #350 KCMIL + 1 #350 KCMIL NEUTRAL + 1 #4 AWG GROUND + 1 #4 AWG ISOLATED GROUND	3"
350	350Y	3 #500 KCMIL + 1 #500 KCMIL NEUTRAL + 1 #3 AWG GROUND	4"
	350K	3 #500 KCMIL + 2 #500 KCMIL NEUTRAL + 1 #3 AWG GROUND	4"
	350G	3 #500 KCMIL + 1 #500 KCMIL NEUTRAL + 1 #3 AWG GROUND + 1 #3 AWG ISOLATED GROUND	4"
400	400Y	3 #600 KCMIL + 1 #600 KCMIL NEUTRAL + 1 #3 AWG GROUND	4"
	400K	3 #600 KCMIL + 2 #600 KCMIL NEUTRAL + 1 #3 AWG GROUND	4"
	400G	3 #600 KCMIL + 1 #600 KCMIL NEUTRAL + 1 #3 AWG GROUND + 1 #3 AWG ISOLATED GROUND	4"
500	500Y	2 SETS OF (3 #250 KCMIL + 1 #250 KCMIL NEUTRAL + 1 #2 AWG GROUND)	(2) 3"
600	600Y	2 SETS OF (3 #250 KCMIL + 1 #250 KCMIL NEUTRAL + 1 #2 AWG GROUND)	(2) 3 1/2"
800	800Y	2 SETS OF (3 #500 KCMIL + 1 #500 KCMIL NEUTRAL + 1 #1/0 AWG GROUND)	(2) 4"
1000	1000Y	3 SETS OF (3 #500 KCMIL + 1 #500 KCMIL NEUTRAL + 1 #2/0 AWG GROUND)	(3) 3 1/2"
1200	1200Y	3 SETS OF (3 #600 KCMIL + 1 #600 KCMIL NEUTRAL + 1 #3/0 AWG GROUND)	(3) 4"
1600	1600Y	4 SETS OF (3 #600 KCMIL + 1 #600 KCMIL NEUTRAL + 1 #4/0 AWG GROUND)	(4) 4"
2000	2000Y	5 SETS OF (3 #600 KCMIL + 1 #600 KCMIL NEUTRAL + 1 #250 KCMIL GROUND)	(5) 4"
2500	2500Y	6 SETS OF (3 #600 KCMIL + 1 #600 KCMIL NEUTRAL + 1 #350 KCMIL GROUND)	(6) 4"
3000	3000Y	8 SETS OF (3 #500 KCMIL + 1 #500 KCMIL NEUTRAL + 1 #400 KCMIL GROUND)	(8) 4"
3500	3500Y	9 SETS OF (3 #600 KCMIL + 1 #600 KCMIL NEUTRAL + 1 #500 KCMIL GROUND)	(9) 4"
4000	4000Y	10 SETS OF (3 #600 KCMIL + 1 #600 KCMIL NEUTRAL + 1 #500 KCMIL GROUND)	(10) 4"

NOTES:
 1. ALL AMPACITIES ARE BASED ON 90°C TEMPERATURE RATING OF CONDUCTORS AS INDICATED IN THE NATIONAL ELECTRIC CODE.
 2. FEEDERS MAY HAVE A COMBINATION OF OVERSIZED NEUTRAL AND ISOLATED GROUND. REFER TO SINGLE LINE DIAGRAM FOR FEEDER TYPES.

VOLTAGE DROP SCHEDULE	
120 VOLT	
WIRE SIZE	CONDUIT/FEEDER LENGTH
#12 AWG	0'-1" TO 65'-0"
#10 AWG	65'-1" TO 120'-0"
#8 AWG	120'-1" TO 180'-0"
#6 AWG	180'-1" AND ABOVE

MEISTER COX ARCHITECTS
 INFO@MEISTER-COX.COM
 PHONE: 610-375-1331 FAX: 610-375-4555
 1522 PENN AVENUE WYOMISSING, PA 19610
 WWW.MEISTER-COX.COM

ELECTRICAL SINGLE LINE DIAGRAM

HOLIDAY INN EXPRESS & SUITES
 INTERSECTION OF HAYNES PLACE & LAMM RD.
 WILSON, NC 27883

STATUS: FOR BID
PROJ. DATE: 06/06/2019
PROJ. NO.: 19-116
PRINTED: 06/06/2019
DRAWN BY: jlm/brm/jpk
CHECKED BY: brm
SHEET NO.: E6.1
SCALE: AS NOTED