

CU FEEDER SCHEDULE				AL FEEDERS		
STD. FUSE OR C/B TRIP SIZE	# OF SETS	BUILDING WIRE QUANTITY & SIZE. TYPE THHN - DRY TYPE THHN - WET	MINIMUM CONDUIT SIZE	# OF SETS	BUILDING WIRE QUANTITY & SIZE. TYPE THHN - DRY TYPE THHN - WET	MINIMUM CONDUIT SIZE
30	1	4 #10, #10 G	1/2"	N/A	N/A	N/A
35	1	4 #8, #10 G	3/4"	N/A	N/A	N/A
40	1	4 #8, #10 G	3/4"	N/A	N/A	N/A
45	1	4 #5, #10 G	1"	N/A	N/A	N/A
50	1	4 #5, #10 G	1"	N/A	N/A	N/A
60A	1	3 #5, #10 G	1"	N/A	#2, #2 W/ #4 G SER	N/A
60	1	4 #5, #10 G	1"	N/A	N/A	N/A
70	1	4 #4, #8 G	1 1/4"	N/A	N/A	N/A
80	1	4 #3, #8 G	1 1/4"	N/A	N/A	N/A
90	1	4 #2, #8 G	1 1/4"	N/A	N/A	N/A
100A	1	3 #1, #8 G	1 1/4"	1	1/0, 1/0, 1/0 W/ #2 G SER	N/A
100	1	4 #3, #8 G	1 1/4"	1	4 #1, #6 G	2"
110	1	4 #1, #6 G	1 1/2"	1	4 #1/0, #4 G	2"
125	1	4 #1, #6 G	1 1/2"	1	4 #2/0, #4 G	2"
125A	1	3 #1, #6 G	1 1/2"	1	3 #2/0, #4 G	2"
150	1	4 #1/0, #5 G	2"	1	4 #3/0, #4 G	2 1/2"
150A	1	3 #1/0, #5 G, SER CABLE	-	1	3 #4/0, #4 G	2 1/2"
175A	1	3 #2/0, #5 G	2"	1	3 #4/0, #4 G	2 1/2"
200	1	4 #3/0, #5 G	2"	1	4 -250KCMIL #4 G	3"
200A	1	3 #3/0, #5 G, SER CABLE	-	1	3 -250KCMIL #4 G	3"
225	1	4 #4/0, #4 G	2 1/2"	1	4 -300KCMIL #2 G	3"
225A	1	3 #4/0, #4 G	2 1/2"	1	3 -300KCMIL #2 G	3"
250	1	4 - 250KCMIL #4 G	2 1/2"	1	4 - 350KCMIL #2 G	3"
300	1	4 - 350KCMIL #4 G	2 1/2"	1	4 - 500KCMIL #2 G	3 1/2"
350	2	4 #2/0, #3 G	2"	1	4 - 750KCMIL #1 G	5"
400	2	4 - #3/0, #3 G	2 1/2"	2	4 - 250KCMIL #1 G	3"
450	2	4 #4/0, #2 G	2 1/2"	2	4 - 300KCMIL #1/0 G	3"
500	2	4 - 250KCMIL #2 G	2 1/2"	2	4 - 350KCMIL #1/0 G	3"
600	2	4 - 350KCMIL #1 G	3"	2	4 - 500KCMIL #2/0 G	3 1/2"
700	2	4 - 500KCMIL #1/0 G	3"	2	4 - 700KCMIL #3/0 G	4"
800	3	4 - 300KCMIL	3"	3	4 - 400KCMIL	3 1/2"
1000	3	4 - 400KCMIL	3"	3	4 - 600KCMIL	4"
1200	4	4 - 350KCMIL	3"	4	4 - 500KCMIL	3 1/2"

- NOTES:  
 1. ALL FEEDER SIZES LISTED MAY NOT BE USED IN PROJECT RISER DIAGRAM.  
 2. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.  
 3. REFER TO LATEST EDITION OF NEC FOR CONDUIT TYPES REQUIRED PER THEIR LOCATION. IF CONDUIT OTHER THAN 'EMT' IS REQUIRED USE SIZE PER MAXIMUM FILL TABLES.  
 4. FEEDER SIZES SHOWN IN PROJECT RISER WITH A DELTA SYMBOL 'Δ' ARE 3W, 3 WIRE FEEDERS, A NEUTRAL WIRE IS NOT REQUIRED.  
 5. FEEDER SIZES SHOWN IN PROJECT RISER WITH A DELTA SYMBOL 'Δ' ARE 1W, 3 WIRE FEEDERS.

PROVIDE SEPARATE LINE ITEM IN BID FOR ALUMINUM FEEDERS. THE OWNER SHALL DECIDE IF ALUMINUM FEEDER SHALL BE ACCEPTED.

**VOLTAGE DROP SCHEDULE**

120 VOLT BRANCH CIRCUITS UP TO 8 AMPS

RUN DISTANCE IN FEET	WIRE SIZE AWG
1' - 120'	#12
121' - 190'	#10
191' - 300'	#8
301' - 470'	#6

120 VOLT BRANCH CIRCUITS 9 AMPS TO 14 AMPS

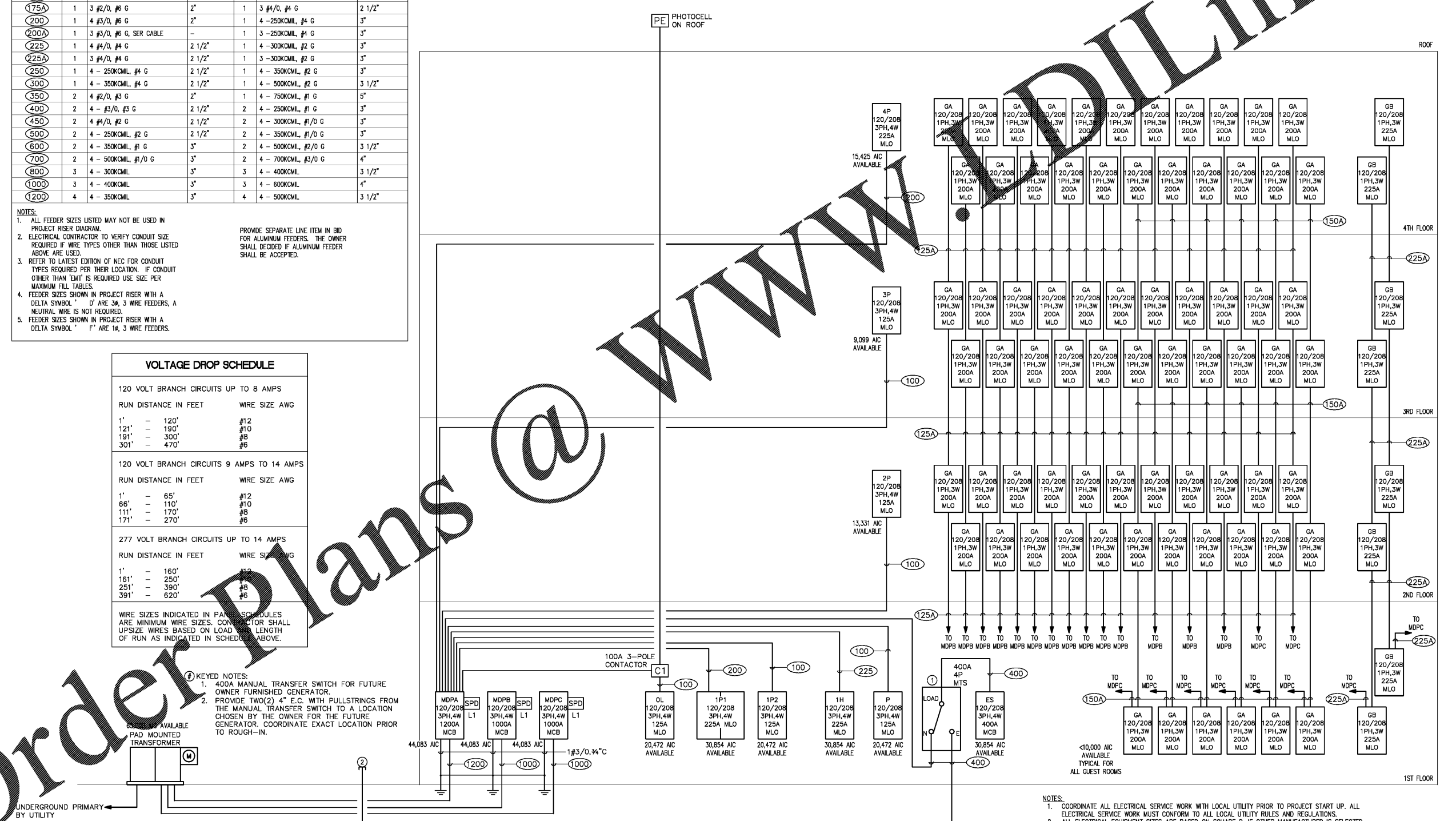
RUN DISTANCE IN FEET	WIRE SIZE AWG
1' - 65'	#12
66' - 110'	#10
111' - 170'	#8
171' - 270'	#6

277 VOLT BRANCH CIRCUITS UP TO 14 AMPS

RUN DISTANCE IN FEET	WIRE SIZE AWG
1' - 180'	#12
181' - 250'	#10
251' - 390'	#8
391' - 620'	#6

WIRE SIZES INDICATED IN PARALLEL SCHEDULES ARE MINIMUM WIRE SIZES. CONTRACTOR SHALL UPSIZE WIRES BASED ON LOAD AND LENGTH OF RUN AS INDICATED IN SCHEDULE ABOVE.

- KEYED NOTES:  
 1. 400A MANUAL TRANSFER SWITCH FOR FUTURE OWNER FURNISHED GENERATOR.  
 2. PROVIDE TWO(2) 4" E.C. WITH PULLSTRINGS FROM THE MANUAL TRANSFER SWITCH TO A LOCATION CHOSEN BY THE OWNER FOR THE FUTURE GENERATOR. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

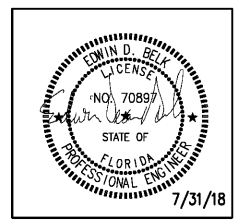


Order Plans @

**REVISIONS**

No.	Date	Description

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KEY PLAN

VTM Hotels, LLC

Home2Suites

2630 Wilde Lake Blvd.  
Pensacola, FL 32526

Drawing Title  
Power Riser Diagram

Phase  
Construction Documents

Project No. 17-101

Prepared by MSM

Checked by EDB

Date July 31, 2018

Sheet No.

E401

Home2Suites

Review

1 POWER RISER DIAGRAM  
E401 NO SCALE

- NOTES:  
 1. COORDINATE ALL ELECTRICAL SERVICE WORK WITH LOCAL UTILITY PRIOR TO PROJECT START UP. ALL ELECTRICAL SERVICE WORK MUST CONFORM TO ALL LOCAL UTILITY RULES AND REGULATIONS.  
 2. ALL ELECTRICAL EQUIPMENT SIZES ARE BASED ON SQUARE D. IF OTHER MANUFACTURER IS SELECTED IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL EQUIPMENT FITS IN ELECTRICAL ROOMS PROVIDED.  
 3. ALL WIRE SIZES INDICATED ARE BASED ON COPPER CONDUCTORS RATED 75°C. FEEDER CONDUCTORS 100A AND LARGER MAY BE ALUMINUM. INCREASE SIZE AND CONDUIT AS REQ'D.  
 4. PROVIDE EXTRA GUTTER IN GUESTROOM PANEL.