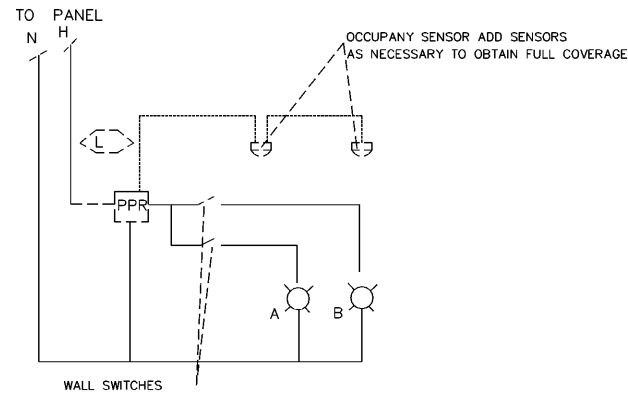


TYPE S SCHEMATIC



TYPE L SCHEMATIC

LOAD CALCULATIONS

BUILDING SIZE 7,336 S.F.

FUTURE TENANT SPACE SIZE 1781 S.F.
TENANT SPACE LOAD

lighting load
1781sq ft x 3 watts x 125%= 6679va
receptacle load=1781va
show window =1200-va
phone board=180va
w-cooler=1200va
sign=1200va
hvac 1@15kw
w-heater=4500 VA
total load
31350va/120/208v 3- phase=87 amps
service to be 200 amp 120/208v 3- phase per owners request

FUTURE TENANT SPACE SIZE 1800 S.F.
TENANT SPACE LOAD

lighting load
1800sq ft x 3 watts x 125%=6750va
recept load
1800 sq ft x 1 watt=1800va
show window=1200-va
phone board=180va
w-cooler=1200va
sign=1200va
hvac 1 @ 15kw
w-heater=4500 VA
total load
31830 va/120/208v 3- phase=88 amps
service to be 200 amp 120/208v 3phase per owners request

FUTURE TENANT SPACE SIZE 1200 S.F.
TENANT SPACE LOAD

lighting load
1200sq ft x 3watts x 125%=4500va
receptacle load
1200 x 1 watt=1200va
show window
1@1200va
phone 1200va
w-cooler
1 @1200va
sign
1@1200va
hvac
1@15kw
w-heat
1@ 4500 VA
total load
22450 va/120/208v 3- phase=80 amps
service to be 200 amps 120/208v 3- phase at owners request

FUTURE TENANT SPACE SIZE 2,458 S.F.
TENANT SPACE LOAD

lighting load
2458sq ft x 3 watts x 125%=9219va
receptacle load
2458 x 1 watt=2458va
show window
1@1200va
phone board=1200va
water cooler=800va
sign=1200va
hvac=2@15kw=30kw
water heater=4500 VA
total load
49556va/120/208v 3- phase=138 amps
service to be 200 amps 120/208v 3-phase per owners request

HOUSE PANEL

CKT	DESCRIPTION	WIRE SIZE	BRK	BRK	WIRE SIZE	DESCRIPTION	CKT
1	WALL PACK BLDG	12	20/1	20/1	12	PARKING LOT	2
3	GOOSENECK LIGHTS BLDG -4 SIDES	12	20/1	20/1	12	PARKING LOT	4
5	LIGHT AT LADDER ROOM	12	20/1	20/1	12	PARKING LOT	6
7	SPEAKERS						8
9	HOLIDAY LIGHTS AT TRELLIS						10
11	UPPER WINDOW LIGHTS						12
13							14
15							16
17							18
19							20
21							22
23							24

TOTAL CONNECTED LOAD = 5.7KVA

TYPICAL PANEL AT EACH TENANT

CKT	DESCRIPTION	WIRE SIZE	BRK	BRK	WIRE SIZE	DESCRIPTION	CKT
1	EMERG/EXIT			20/1	12	TENANT LIGHTING -FUTURE	2
3	N/L/FUTURE	12	20/1	20/1	12	TENANT RECEPT- FUTURE	4
5	PHONE BD	12	20/1	20/1	12	W COOLER-FUTURE	6
7	RECEPT-FUTURE	12	20/1	20/1	12	SHOW RECEPT- FUTURE INTERIOR	8
9	TENANT SIGNS			30/2	10	WATER HEATER -FUTURE	10
11	RTU	6	60/3	30/2	10	WATER HEATER- FUTURE	10
13							14
15							16
17							18
19							20
21							22
23							24

TOTAL CONNECTED LOAD

FUTURE TENANT SPACE SIZE 1781 S.F. = 31350 va
FUTURE TENANT SPACE SIZE 1800 S.F. = 31830 va
FUTURE TENANT SPACE SIZE 1200 S.F. = 22450 va
FUTURE TENANT SPACE SIZE 2,458 S.F. = 49,556 va.

HOUSE LOADS 5,720 VA

TOTAL LOAD FOR BLDG #2

4- TENANT SPACES @ VA = 141,586 VA

146,586 VA/120/208V 3-PHASE = 394 AMPS

SERVICE FOR BLDG #2 TO BE 600 AMPS 120/208V 3 - PHASE

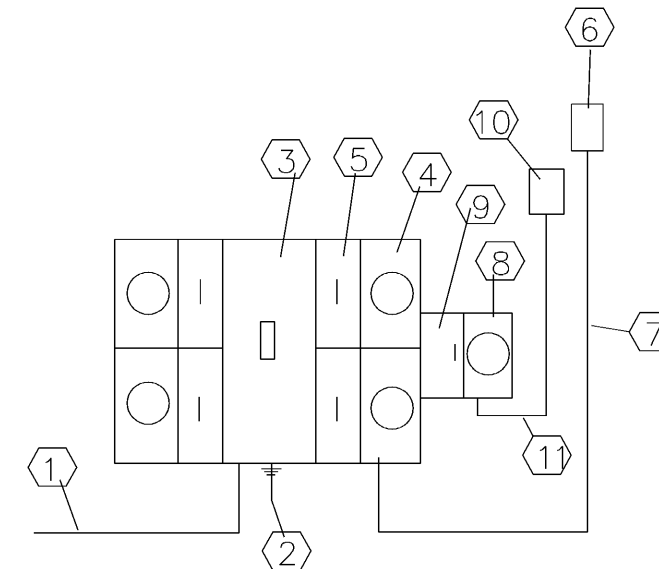
GOOSENECK LIGHTS AND UPPER WINDOW LIGHTS TO BE ON SEPARATE TIMERS

ELECTRICAL LOAD CALCULATION PER NEC 2014 ARTICLE 220.12-60

GENERAL LIGHTING LOAD BASED ON NEC2014 ARTICLE 220.12-16

OTHER LOADS BASED ON INFORMATION PROVIDED BY THE TENANT

SERVICE LOAD BASED ON 220.40 - SHOWN AT 100% OF FULL LOAD , NO DEMAND FACTOR TAKEN



RISER DIAGRAM NOTES:

- 2 -3" sch 4 PVC RACEWAYS EACH WITH 4-500 MCM XHHW AL CONDUCTORS - TO UTILITY CO POWER
- 3/0 THWN CU GROUND PER NEC
- 600 AMP 120/208V 3 -PHASE MCB IN NEMA 3R ENCLOSURE
- 200 AMP 120/208V 3 PHASE METER SOCKET
- 200 AMP 120/208V 3- PHASE TENANT MCB
- 200 AMP 120/208V 3 PHASE TENANT PANEL
- 2 1/2" SCH 40 PVC RACEWAY WITH 4 -250 MCM XHHW AL CONDUCTORS AND 1-#2 XHHW AL GROUND
- 100 AMP 120/208 V 3- PHASE HOUSE METER SOCKET
- 100 AMP 120/208V 3 -PHASE HOSE MCB
- 100 AMP 120/208V 3 -PHASE HOUSE PANEL
- 2" SCH 40 PVC RACEWAY W/4-#2 XHHW AL CONDUCTORS AND 1 #4 XHHW AL GROUND

SERVICE OF KNIGHTS ELECTRIC LLC
KYLAN KNIGHT -DRAWN BY JW 904 334-9390
BR1301-5329
324 N 6TH AVEN , JACKSONVILLE BEACH, FL , 32250

BUILDING #2
BRANAN FIELD WALK
MIDDLEBURG, FLORIDA

RISER DIAGRAM, NOTES AND PANEL SCHEDULE

DATE	REVISIONS:

Date: 10/1/2018
Scale: 3/16" = 1'-0"
Drawn:
Checked:
Sheet No: