

LIGHTING - KEYNOTES

- MOUNT J-BOX INSIDE BUILDING & FLEX CONDUIT THRU WALL FOR POWER SUPPLY TO ILLUMINATED SIGN. EXACT LOCATIONS OF PENETRATIONS SHALL BE COORDINATED WITH SIGN COMPANY. PENETRATIONS SHALL BE BEHIND SIGNAGE. WATERPROOF WITH ELASTOMERIC POLYURETHANE (NO EXCEPTIONS) EQUAL TO "VULKEN" 118. WIRE TO SIGN WITH 15' OF WIRING "WHIP" (SHALL BE FLEX OR TYPE MC CABLE). COIL AND "CABLE TIE" WIRING "WHIP" TO WALL ABOVE CEILING, TYPICAL.
- 2) TO "OPEN" SIGN. SEE SHEET E2.
- SEE "E" PANEL TRANSFER SWITCH SCHEDULES FOR POSITION OF CIRCUIT WIRES THROUGH TRANSFER SWITCH.
- 4 VIA VENSTAR SURVEYOR / LIGHTING CONTROL PANEL. SEE SHEET VS1 AND VENSTAR SCOPE OF WORK (S.O.W.).
- 5 DIMMER LIGHTING CONTROL SWITCHES LOCATED ON OUTSIDE WALL OF OFFICE. SEE LIGHTING PLAN FOR QUANTITY. SEE DETAILS ON SHEET E4 FOR MORE INFORMATION.
- 6 SUSPEND 8'-0" ABOVE FINISHED FLOOR. THIS FIXTURE ONLY.
- ROUTE THE OFFICE AND RESTROOM'S LIGHTING CIRCUIT THRU THE LOCAL OCCUPANCY SENSORS AND DIRECTLY TO THE CIRCUIT BREAKER THESE FIXTURES SHALL NOT BE SWITCHED BY THE LIGHTING CONTROL PANEL. SEE "E" PANEL TRANSFER SWITCH SCHEDULE FOR POSITION OF CIRCUIT WIRES THROUGH TRANSFER SWITCH.
- 8 REFER TO ARCHITECTURAL ELEVATIONS SHEETS SHOWING DIMENSIONED LOCATIONS. TYPICAL ALL WALL SCONCES.
- 9 SECURITY AND EGRESS FIXTURE TO BE AS CLOSE AS POSSIBLE BUT NOT OVER THE OVERHEAD DOOR WHEN OPEN.
- 10) ROUTE SECURITY AND EGRESS LIGHTING CIRCUIT DIRECTLY TO THE ELECTRICAL PANEL.

AUTOMATIC LIGHTING CONTROL

COMPLIANCE WITH ENERGY CODE IS ACHIEVED BY:

ONCE THE EMS HAS BEEN PROGRAMMED, THE INTERIOR AND EXTERIOR LIGHTS WILL TURN ON AND OFF USING THE FOLLOWING

INTERIOR WORK LIGHTS WILL TURN ON WITH FIRST MOTION IN THE STORE AND WILL TURN OFF 15 MINUTES AFTER LAST MOTION ONC

THE STORE IS CLOSED.

INTERIOR SALES LIGHTS WILL TURN ON AT STORE OPENING AND TURN OFF 15 MINUTES AFTER STORE CLOSING.

EXTERIOR SIGN LIGHTS WILL TURN ON WHEN ITS DARK ENOUGH OUTSIDE ANYTIME DURING STORE HOURS, AND WILL TURN OFF AT

EXTERIOR SITE LIGHTS WILL TURN ON WHEN IT IS DARK ENOUGH OUTSIDE AND IT IS WITHIN STORE HOURS OR THERE IS MOTION IN THE STORE. THEY WILL TURN OFF 30 MINUTES AFTER LAST MOTION

FOR NEW CONSTRUCTION LOCATIONS ONLY, THERE IS A TEMPORARY PROGRAM TO KEEP SIGN AND SITE LIGHTS ON UNTIL MIDNIGHT RATHER THAN THE TIMES INDICATED ABOVE. O'REILLY WILL DISABLE THIS PROGRAM ONE YEAR AFTER STORE OPENING.

RESTROOMS AND OFFICES: ALL LIGHTING IN THESE AREAS ARE CONTROLLED BY OCCUPANT—SENSING DEVICES.

SEISMIC RESTRAINTS (ONLY REQUIRED FOR SEISMIC DESIGN CATEGORIES C,D,E,F)

CONTRACTOR TO REFER TO ARCHITECTURAL SHEET G1.1 FOR SEISMIC DESIGN CATEGORY

REQUIRED SEE SEISMIC DETAILS SHEET ME1.

EMERGENCY/EXIT LIGHTING

PLACE EXIT SIGNS HIGH ENOUGH TO BE SEEN ABOVE ALL MERCHANDISI WITH THE FOLLOWING LIMITATION: THE MAXIMUM HEIGHT FOR AN EXIT LIGHT ASSOCIATED WITH A SPECIFIC OPENING (I.E. MOUNTED OVER A DOOR OR OPENING) SHALL BE NO GREATER THAN THE CODE ALLOWED 3'-8" ABOVE THE TOP EDGE OF THE DOOR OR OPENING.

INTERIOR LIGHTING ZONES

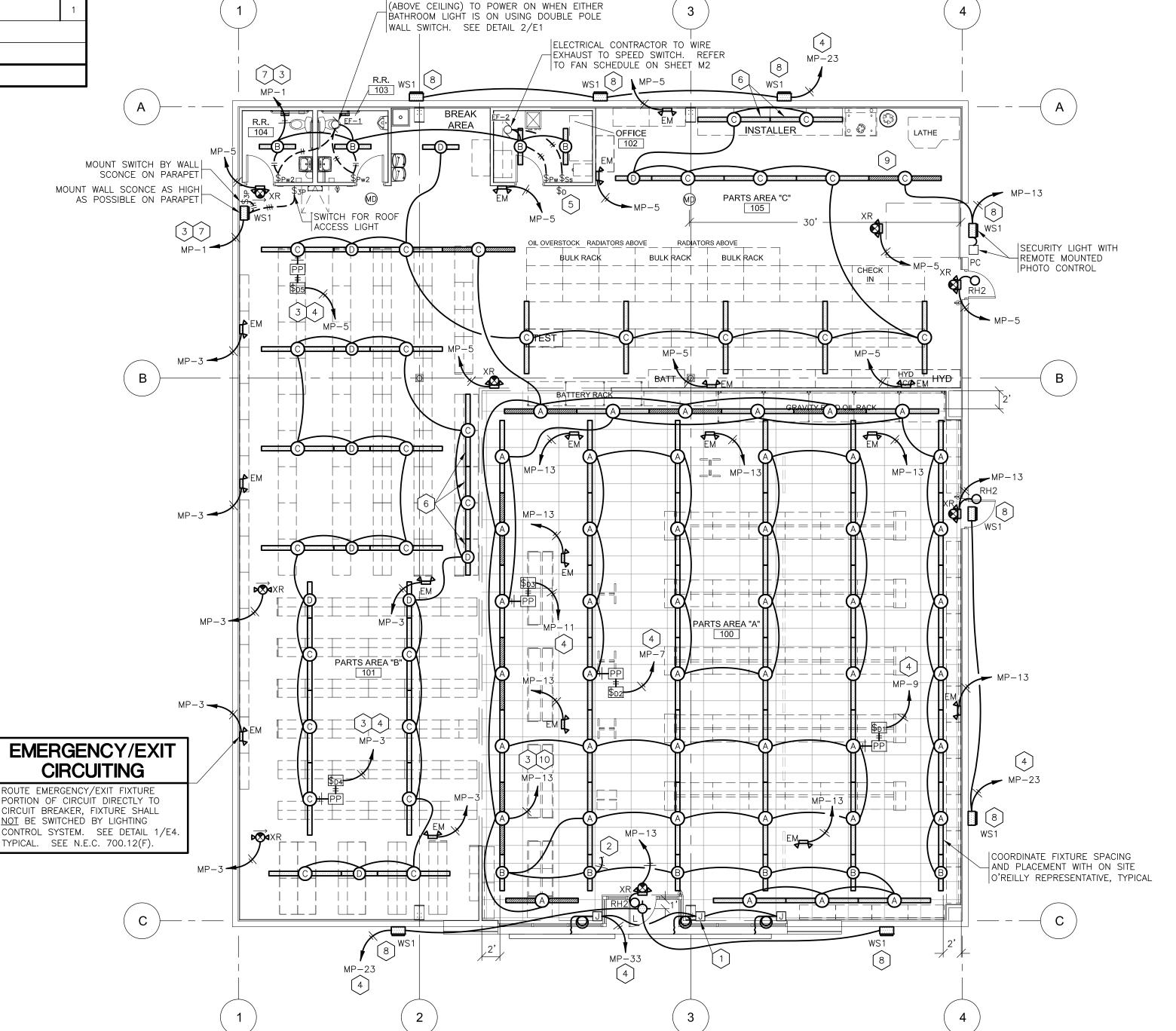
LL INTERIOR LIGHTING WITHIN PARTS AREA "A" SHALL BE CONSIDERED "SALES" ZONE (ON ONLY WHEN STORE IS OPEN FO

ALL INTERIOR LIGHTING WITH PARTS AREA "B", PARTS AREA "C", RESTROOMS, OFFICE, AND BREAK AREA SHALL BE CONSIDERED "WORK" ZONES (ON WHENEVER THERE IS MOTION OR THE STORE S OPEN).

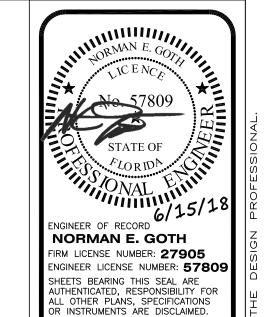
IELECTRICAL CONTRACTOR TO WIRE EXHAUST

LIGHTING PLAN

SCALE: 1/8" = 1'-0"







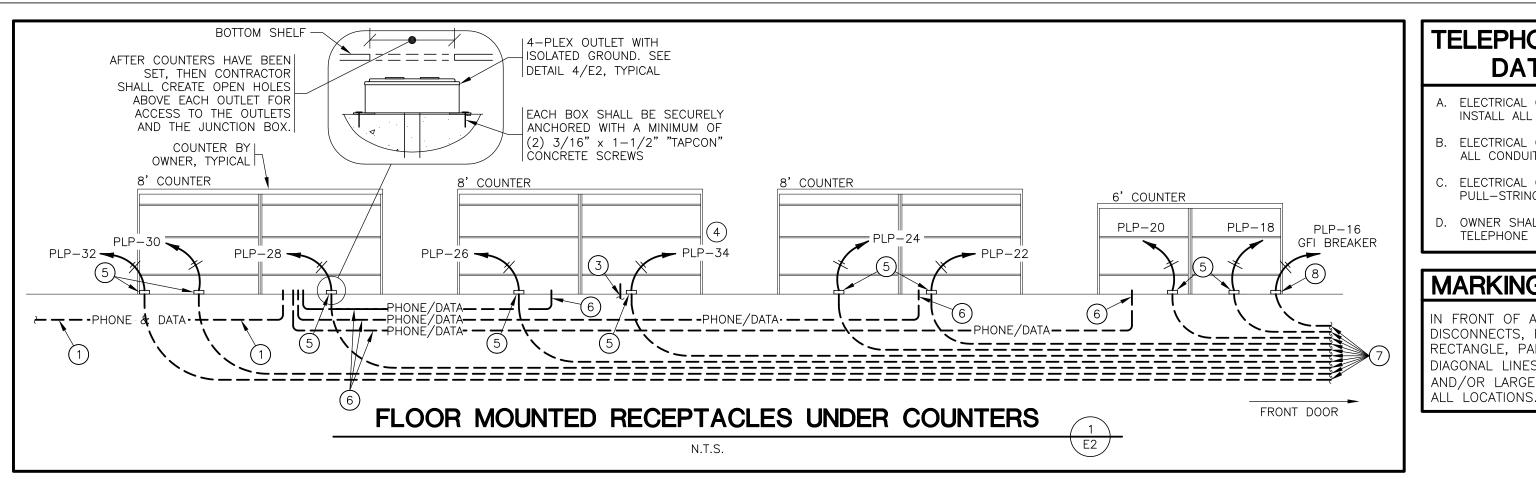


EZ OO PART AUTO

JJW BLC/ALT

06/15/2018 **REVISION:**

PROJECT NUMBER: 18078-OF4



TELEPHONE & COMPUTER DATA SYSTEMS:

- A. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL TELEPHONE AND DATA CONDUITS.
- B. ELECTRICAL CONTRACTOR SHALL VACUUM OUT ALL CONDUITS TO REMOVE WATER.

 C. ELECTRICAL CONTRACTOR SHALL PROVIDE
- PULL—STRING IN EACH CONDUIT.

 D. OWNER SHALL PROVIDE AND INSTALL ALL
 TELEPHONE AND DATA WIRING.

IN THE EVENT A MONITORED FIRE ALARM SYSTEM IS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, THE ALARM SYSTEM WILL BE CONTRACTED DIRECTLY BY THE ALARM SERVICES MANAGER, LEIGH SIDES, WITH THE O'REILLY AUTOMOTIVE CORPORATE OFFICE. TH GENERAL CONTRACTOR SHALL NOT PROCURE ANYONE TO INSTALL OR QUOTE THESE SYSTEM UNLESS THEY HAVE BEEN ASKED TO DO SO BY LEIGH SIDES. PLEASE CONTACT LEIGH

SIDES AT (417) 829-5712 IF A SYSTEM IS

NEEDED OR IF THERE ARE ANY QUESTIONS

FIRE ALARM NOTE:

SEISMIC RESTRAINTS (ONLY REQUIRED FOR SEISMIC DESIGN CATEGORIES C,D,E,F)

CONTRACTOR TO REFER TO ARCHITECTURAL SHEET G1.1 FOR SEISMIC DESIGN CATEGORY.

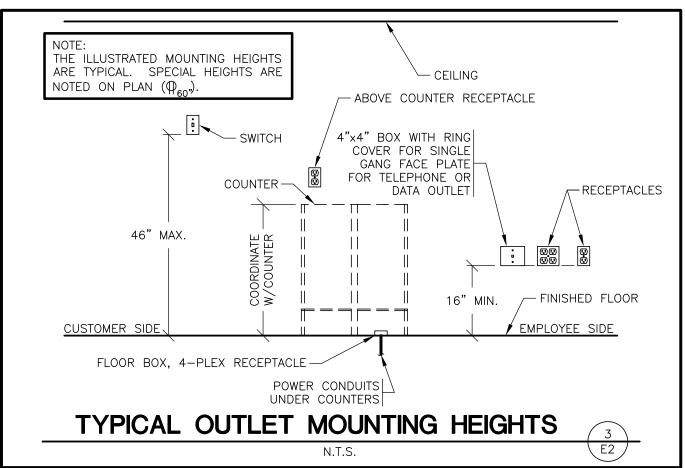
LATHE, 120 VOLTS W/ 1 HPI

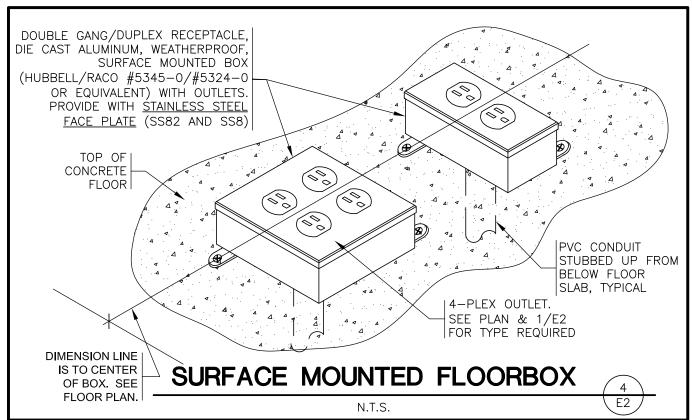
IF REQUIRED SEE SEISMIC DETAILS SHEET ME1.

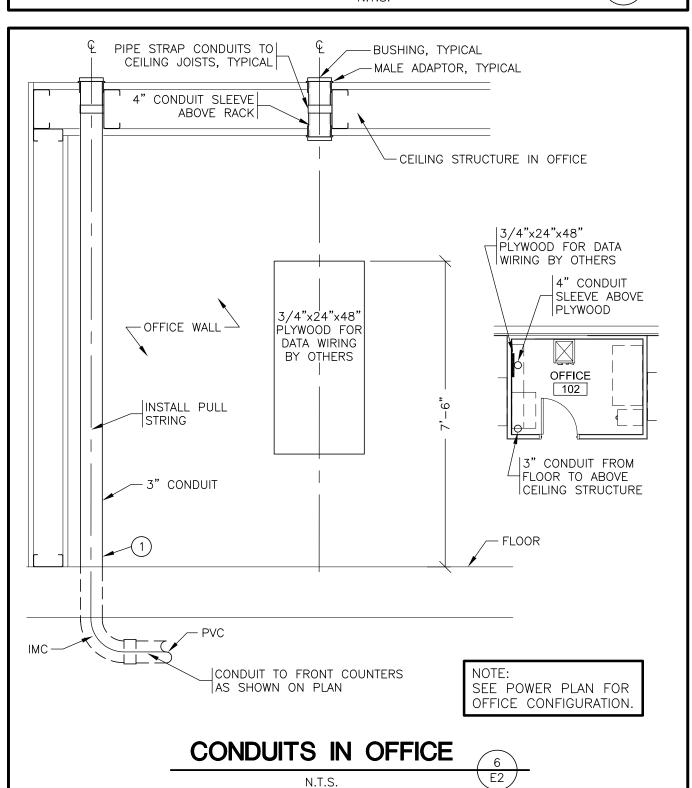
MARKING OF ELECTRICAL WORKING SPACE

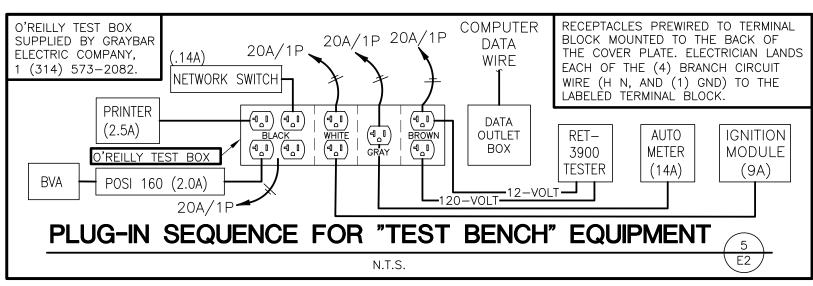


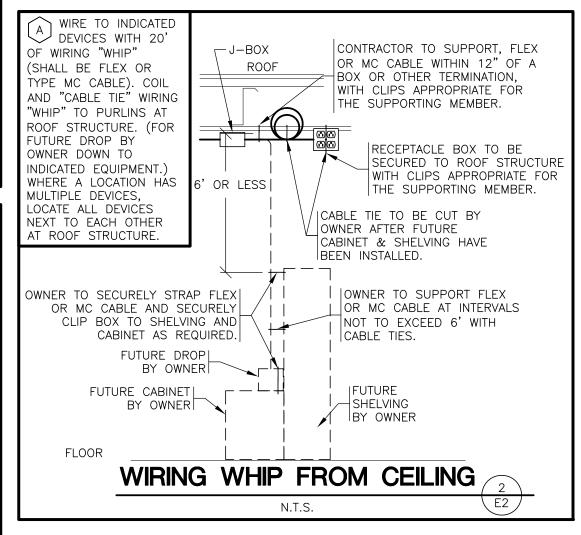
IN FRONT OF ALL METER PANELS, SUB PANELS, TRANSFORMERS, AND DISCONNECTS, PROVIDE A WORKING SPACE IN FRONT, ON THE FLOOR. RECTANGLE, PAINT WITH CONTRASTING COLOR, 4—INCH BRUSH STROKES WITH DIAGONAL LINES INSIDE, WITH 6—INCH LETTERS, "NO STORAGE" BLOCKED IN, AND/OR LARGE STICKER SAYING THE SAME THING. 4'—0" DEPTH TYPICAL AT











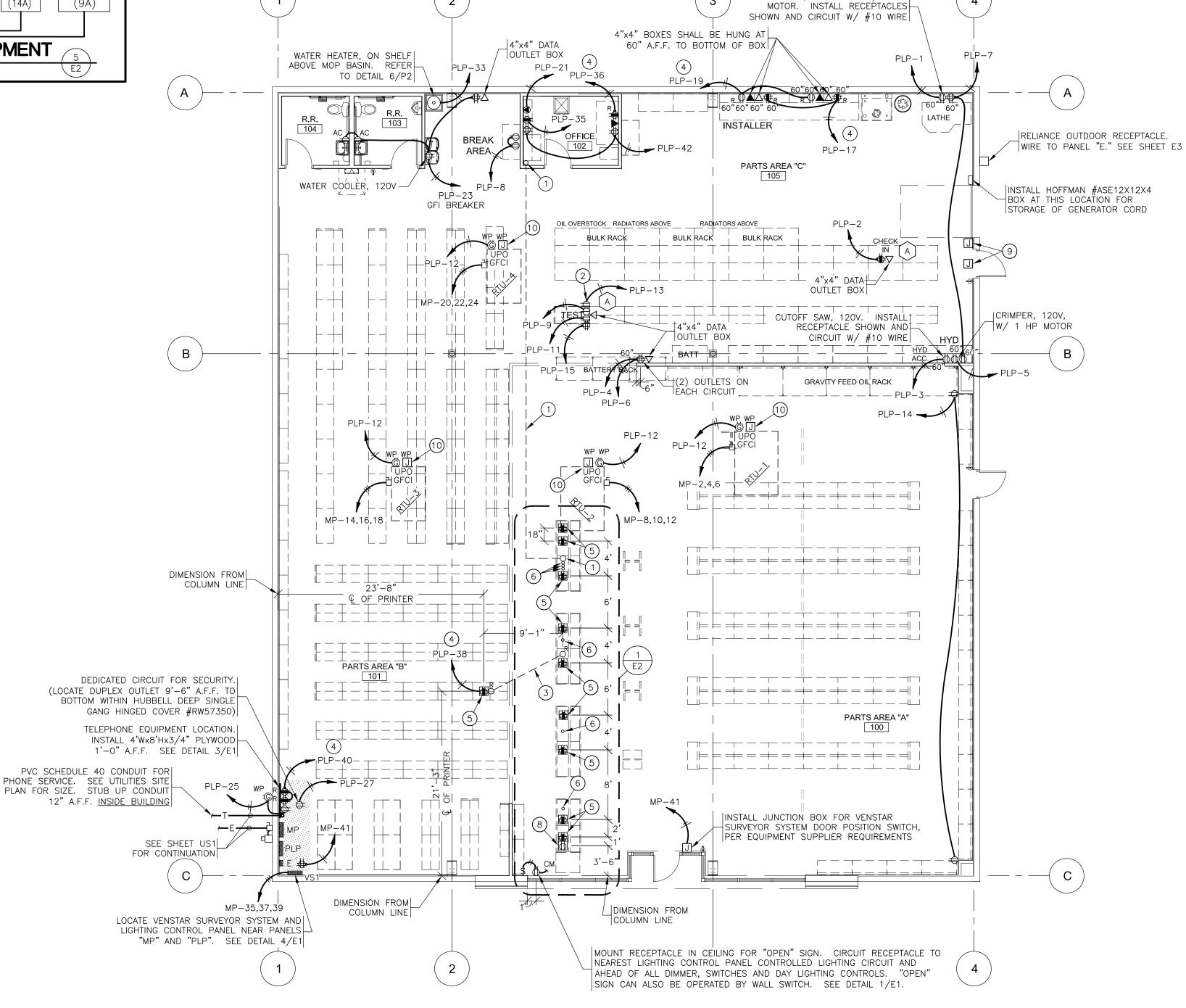
POWER - KEYNOTES

- 1) 3" CONDUIT UNDERSLAB FROM COUNTER TO OFFICE FOR PHONE & DATA WIRING BY OWNER. STUB 3" CONDUIT TO A MINIMUM OF 9 FEET ABOVE FINISH FLOOR IN OFFICE. STUB 3" CONDUIT TO A MINIMUM OF 2—INCHES ABOVE FINISH FLOOR UNDER COUNTER. SEE DETAIL 1/E2 & 6/E2. INSTALL PULL STRING.
- 2 TEST OUTLET BOX. 120V. INSTALL (2) DUPLEX OUTLETS EACH ON THEIR OWN CIRCUIT, (1) SINGLE OUTLET ON ONE CIRCUIT, (1) QUADPLEX OUTLET ON ONE CIRCUIT & A COMPUTER DATA OUTLET BOX. SEE DETAIL 5/E2.
- 4" CONDUIT UNDERSLAB FROM UNDER COUNTER TO PRINTER LOCATION. STUB 4" CONDUIT TO A MINIMUM OF 2-INCHES ABOVE FINISH FLOOR UNDER COUNTER AND PRINTER LOCATION. FOR OWNER TO INSTALL PRINTER CABLE.
- 4) SEE "E" PANEL TRANSFER SWITCH SCHEDULES FOR POSITION OF CIRCUIT WIRES THROUGH TRANSFER SWITCH.
- 5 FLOOR 4-PLEX ISOLATED GROUND RECEPTACLE. SEE DETAIL 4/E2.

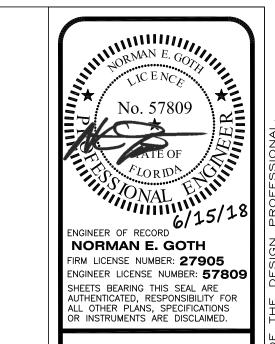
 6 STUB UP 2" CONDUITS (FOR PHONE/DATA) TO A MINIMUM OF 2-INCHES ABOVE FINISH FLOOR. NO BOXES REQUIRED. TYPICAL OF
- ALL COUNTERS. SEE DETAIL 1/E2.

 3/4" PVC CONDUIT UNDERSLAB. RUN ONE PVC CONDUIT FROM EACH FLOOR RECEPTACLE TO PANEL LOCATION.
- 8 FLOOR DUPLEX RECEPTACLE (FOR COKE MACHINE) SEE DETAIL 4/E2
- 9 INSTALL JUNCTION BOXES FOR ENERGY MANAGEMENT SYSTEM DOOR POSITION SWITCHES AND WIRE TO CONTROLLING HVAC IN AREA OF BACK DOOR, PER EQUIPMENT SUPPLIER REQUIREMENTS. SEE SHEET
- (10) CONTRACTOR TO INSTALL J-BOX, CONDUIT, AND PULL STRING FOR FIRE ALARM. MOUNT J-BOX BELOW OPTIONAL CONVENIENCE OUTLET LOCATION. REFERENCE SHEET M2.

NOTE:
ALL PANELBOARDS, TRANSFORMERS, TRANSFER SWITCH KIT AND
DISCONNECTS WILL BE SUPPLIED BY THE OWNER (O'REILLY).
ELECTRICAL GEAR SHALL BE DIRECT ORDERED AND/OR RELEASED
FROM THE LISTED ELECTRICAL EQUIPMENT DISTRIBUTOR LISTED ON
SHEET E3.









SMITH-GO 3855 S. JEF SPRINGFIELD,

3 SW HWY 200 LA, FL 34476

MUTO PARTS

CORPORATE OFFICES
233 SOUTH PATTERSON
SPRINGFIELD, MISSOURI
417) 862-2674 TELEPHON

DRAWN BY: CHECKED BY:

JJW BLC/ALT

DATE:
06/15/2018
REVISION:

PROJECT NUMBER: 18078-OF4

MP

MAINS: 400A MAIN LUGS ONLY

20A/1P | #12s | LIGHTING/EXHAUST FAN | 0.50 | 4.43

LIGHTING

LIGHTING

LIGHTING

LIGHTING

LIGHTING

LIGHTING

SPACE

SPACE

SPACE

SPACE

SITE LIGHTING

SITE LIGHTING

SITE SIGN

SITE SIGN

20A/1P #12s BUILDING LIGHTING

33 | *20A/1P | #12s | LED SIGN BUILDING

20A/1P

GENERATOR (6,000 WATTS) RATED. MAX KVA=5.0 LOAD

TYPE: SQUARE D, NQOD

MOUNTING: SURFACE

20A/1P | #12s

20A/1P |#12s

20A/1P |#12s

20A/1P | #12s

29 | 20A/1P |#12s

3 | 20A/1P | #12s

SCCR: 65/10K AIC

PANELBOARD SCHEDULE

VOLTAGE: 208

PHASE: 3ø,4W

4.80

2.78 | 2.78

0.36 PLP-

0.36 PLP-3

0.50 PLP-3

0.72 PLP-4

0.20 MP-1

WIDTH: 20

SPACE(S): 42

1.08

0.87

0.75 | 3.53

0.47 | 0.47

OFFICE COMPUTER

COUNTER RECEPTACLES

PRINTER

ELEPHONE EQUIPMENT RECEPTACLE

IGHTING OFFICE/BATHROOMS (100% ON)

LIGHTING SECURITY (100% ON) GHTING HARD PARTS (DIMMED TO 20% ON)

GHTING HARD PARTS (DIMMED TO 20% ON

STALLER (ISOLATED GRD RECEPTACLE

INSTALLER (RECEPTACLE

GRAYBAR ELECTRIC CO. INC. 11885 LACKLAND ROAD ST. LOUIS, MO. 63146

ACCESSORIES

EQUIPMENT GROUND BAR

. + MUST BE TYPE "HACR" BREAKER

7.5-TON

7.5-TON

5-TON

5-TON

SPACE

SPACE

SPACE

SPACE

SPACE

ISOLATED GROUND BAR

GRAYBAR OREILLY TEAM EMAIL: oreilly@graybar.com

0.36 ISOLATED GRD. RECEPTS. #12s 20A/1P

0.36 |ISOLATED GRD. RECEPTS.|#12s| 20A/1P

0.36 ISOLATED GRD. RECEPTS. #12s 20A/1P

0.50 | PRINTER RECEPTACLE | #12s | 20A/1P

0.72 | PHONE EQUIP. RECEPTS. | #12s | 15A/1P

|#12s| 20A/1P

TOTAL AMPS

82.00

82.350000

0.36 | 0.36 |ISOLATED GRD. RECEPTS.|#12s| 20A/1P

0.72 | 0.36 | ISOLATED GRD. RECEPTS. | #12s | 20A/1P |

RECEPTACLES

TOTAL CONNECTED LOAD (KVA)

29.54

0.90 | 0.90 |

TOTAL PHASE C (KVA)

8.49

WATER HEATER

TOLL FREE: (314) 573-2080 PANELBOARD SCHEDULE PLP MAINS: 225A MAIN LUGS ONLY VOLTAGE: 208 ACCESSORIES EQUIPMENT GROUND BAR TYPE: SQUARE D, NQOD PHASE: 3ø,4W ISOLATED GROUND BAR . * 'SQ. D' #QO1PA - WITH LOCKABLE CLIPS | 3. *** GFI BREAKER CKT. #16 & #23 MOUNTING: SURFACE WIDTH: 20 4. ** 'SQ. D' #Q01PAF CKT. #33 SCCR: 65/10K AIC 5. + MUST BE TYPE "HACR" BREAKER CKT|CKT BRK|WIRE| LOAD DESCRIPTION |(KVA)|A(KVA)|B(KVA)|C(KVA)|(KVA)| LOAD DESCRIPTION |WIRE|CKT BRK | CKT BRK | WIRE | LOAD DESCRIPTION |(KVA)|A(KVA)|B(KVA)|C(KVA)| (KVA)| LOAD DESCRIPTION | WIRE | CKT BRK |CI 20A/1P | #10s).50 CHECK IN RECEPT. (I.G.) #12s 20A/1P 1.70 | 2.20 | LATHE #8s | +50A/3P CUTOFF SAW 20A/1P | #10s .18 | BATTERY AREA RECEPTS. | #12s | 20A/1P 20A/1P | #12s CRIMPER 1.95 | 0.18 | BATTERY AREA RECEPTS. | #12s | 20A/1P RECEPTACLES).36 |BREAK AREA RECEPTS.|#12s| 20A/1P #8s +50A/3P 20A/1P | #10s | STARTER/ALT. TESTER | SPACE 20A/1P | #10s | STARTER/ALT. TESTER RTU RECEPTACLES | #12s | 20A/1P 20A/1P |#10s|STARTER/ALT. TESTER | RECEPTACLES |#12s| 20A/1P #8s | +45A/3P 15A/1P | #12s .75 |COKE MACHINE (ONLY)|#12s|***20A/1P| RECEPTACLES 20A/1P | #12s | ISOLATED GRD. RECEPTS. | 0.72 1.08 | 0.36 |ISOLATED GRD. RECEPTS.|#12s| 20A/1P 0.36 ISOLATED GRD. RECEPTS. #12s 20A/1P RECEPTACLES #8s | +45A/3P 30A/1P #10s BATTERY BACKUP (I.G 0.36 |ISOLATED GRD. RECEPTS.|#12s| 20A/1P | ***20A/1P | #12s | WATER COOLER RECEPT .26 | 0.36 | ISOLATED GRD. RECEPTS. | #12s | 20A/1P 0.36 ISOLATED GRD. RECEPTS. #12s 20A/1P | 20A/1P |#12s| RECEPTACLES 1.00 | 1.36 |

| | | | | | | | A. C. | | 200 | | | | | | |
|----|---------|--------|--------|----------|---------------------------|------|---------|----------|-------|--------|----------|---------------|-------|-------------------------|------|
| 3 | 5 | | | | | 0.03 | | | 0.03 | 0 | | SPACE | | | 36 |
| 3 | 7 15A | √3P | #12s | | AR SURVEYOR ER MONITOR | 0.03 | 8.43 | | | 8.40 | | | | | 38 |
| 3 | 9 | | | | | 0.03 | | 12.68 | | 12.65 | PLF | PANEL | _ | 100A/3P | 40 |
| 4 | ·1 15A | /1P | #12s | DATA CON | CENTRATOR RECEPT | 0.60 | | | 9.09 | 8.49 | | | | | 42 |
| TO | TAL PH | IASE A | (KVA) | TOTAL | PHASE B (KVA) | TO | TAL PHA | SE C (F | (VA) | TOTAL | CONNECTE | ED LOAD (KVA) | Т | OTAL AMPS | |
| | 2 | 5.94 | | | 30.04 | | 26 | .37 | | | 82.3 | 35 | | 228.59 | |
| | LIGHTI | NG | 7.34 | EXTER | IOR LIGHTING | 5.42 | TOTAL | LIGHTING | 12.76 | HVAC | 4 | 40.26 | RECE | EPTACLES | 12.8 |
| _ | | | | | | | | | | | | | | | |
| | E | | TF | RANS | SFER S | WIT | СН | SCI | HED | ULE | E | CONDUCTO | R ROL | RCUITS SHA JTED WITH | THE |
| P | OSITION | CIRC | UIT BF | REAKER | LOA | DESC | CRIPTIO | N | (| KVA) I | BREAKER | | | MUST HAVE DANCE WITH | |

HAVE AN EQUIPMENT GROUNDING E CIRCUIT CONDUCTORS. THIS MEANS GREEN WIRE INSTALLED IN THEM AND SIZED IN ACCORDANCE WITH TABLE 250.122 OF THE N.E.C.

20A/1P |#12s

MISCELLANEOUS

SECURITY

SPACE

SPACE

SPACE

SPACE

SPACE

12.65

14.79

3 |**20A/1P|#12s| TANK WATER HEATER |

20A/1P #12s ISOLATED GRD. RECEPTS.

OTAL PHASE A (KVA) TOTAL PHASE B (KVA)

DOT-HATCH REPRESENTS CIRCUITS THAT ARE ASSOCIATED WITH OPTIONAL STANDBY GENERATOR CONTROL.

| | ELECTRIC SERV | /ICE RE | SPONS | BILITIES | 3 | |
|-------------|---------------------------------|-------------|------------|-------------------|------------|--|
| SEE | SITE PLAN FOR UTILITY COMPANY C | ONTACT. | | | | |
| ITEM | DESCRIPTION (IF APPLICABLE) | FURNIS | HED BY | D BY INSTALLED BY | | |
| NO. | DESCRIPTION (IF APPLICABLE) | UTILITY CO. | CONTRACTOR | UTILITY CO. | CONTRACTOR | |
| \triangle | SERVICE LATERAL | | X | | X | |
| $\sqrt{2}$ | SERVICE LATERAL RACEWAY | | X | | Х | |
| 3 | METER BASE | X | | | Х | |
| 4 | METER | X | | X | | |
| 5 | CT CABINET | | X | | Х | |
| 6 | OH SERVICE RISER @ BUILDING | | | | | |
| $\sqrt{2}$ | TRANSFORMER | Х | | Х | | |
| 8 | SERVICE RISER @ POLE | | Х | | Х | |
| 9 | TRANSFORMER PAD | | | | | |
| 1 | PAD MOUNT TRANSFORMER | | | | | |

| SEE ELECTRICAL SERVIC | CE DIA | GRAM. | | | | |
|-----------------------|-----------------------|-------------------------------|------------------|--------------------------|-------------------------------|--|
| | LABELS LABELS | | | | | |
| EQUIPMENT | SERVICE DISCONNECT | OPTIONAL STANDBY SOURCE | SERIES RATING | GENERATOR POWER INLET | AVAILABLE FAULT CURRENT | |
| DISCONNECT | Χ | X | X | | | |
| MP | | | X | | | |
| PLP | | | X | | | |
| E | | | | | | |
| GENERATOR POWER INLET | | | | X | | |
| CT CADINET | | | | | | |

EQUIPMENT LABELS CHART

WIRING & LABELING OF EXIT & **EMERGENCY LIGHT CIRCUITS** SEE DETAIL 1/E1 FOR WIRING OF EXIT & EMERGENCY LIGHTS ON THESE CIRCUITS.

ALL EXIT & EMERGENCY LIGHTING CIRCUITS SHALL BE LABELED BY THE CONTRACTOR ON THE "PANEL DIRECTORY". (SPEC: NFPA 70 408.4 & 700.12).

SERVICE DISCONNECT LABEL

THE SERVICE DISCONNECTING MEANS SHALL BE PROPERLY MARKED "SERVICE DISCONNECT". REFER TO SPEC SECTION 26 00 20 FOR FURTHER IDENTIFICATION PLATE REQUIREMENTS.

SERIES RATING LABLES REQUIRED

WHERE CIRCUIT BREAKERS OR FUSES ARE APPLIED IN COMPLIANCE WITH SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER. THE EQUIPMENT CABINET(S) SHALL BE LABELED IN THE FIELD TO INDICATE THE EQUIPMENT IS BEING USED WITH SERIES COMBINATION

THE LABEL(S) SHALL BE READILY VISIBLE AND STATE THE FOLLOWING <u>CAUTION-SERIES COMBINATION SYSTEM</u> RATED 65K/10K AMPERES

INSULATED EQUIPMENT GROUNDING CONDUCTOR EQUIPMENT GROUND BAR -INSULATED EQUIPMENT GROUND BAR INSULATED EQUIPMENT GROUNDING CONDUCTOR TO FEEDING PANEL'S EQUIPMENT GROUND BAR

#6 AWG. CU. BONDING JUMPER TO NEAREST AWG SHALL TERMINATE IN A LISTED INTERSYSTEM BONDING METALLIC GAS PIPING PER NEC SECTION TERMINATION (LOCATED AT METER EQUIPMENT ENCLOSURE) 250.104. E.C. SHALL VERIFY THAT GAS ITH A MINIMUM OF THREE(3) TERMINATIONS FOR GROUNDING SUPPLIER'S EQUIPMENT PROVIDES ELECTRICAL OTHER BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO: ISOLATION BETWEEN BONDED AND UNDERGROUND OPTICAL FIBER, COMMUNICATIONS, CATV, BROADBAND SEGMENTS OF METAL GAS PIPING. SERVICES. REFER TO SECTION 250.94 OF THE N.E.C #2/0 AWG COPPER TO NEARES |METALLIC COLD WATER PIPE |GROUNDING ELECTRODE CONDUCTOR #2/0 ORIZONTAL REBAR #2/0 AWG COPPER TO EXOTHERMIC WELD OR OR TIE WIRES BUILDING STEEL TERMINATE ALL CONDUCTORS AT PANELBOARD GRD. BAR REBAR TYPICAL -- CONCRETE SLAB LOCATE NEAR **EXTERIOR** MAIN PANEL CONCRETE -FOOTING −3/4" PVC PIPE SLEEVE LECTRICAL DETAIL IS FOR CONCEP CTUAL FOOTING TYPE MAY VARY. |BOND ONE REBAR IN THE FOOTING AND ONE REBAR IN THE SLAB WITH #2/0 AWG COPPER TO THE GROUNDING ELECTRODE. THE REST OF THE REBARS IN THE FOOTING AND SLAB ARE PERMITTED (PER NEC 250.52(A)3) TO BE BONDED TOGETHER BY THE USUAL METALLIC TIE WIRES GROUNDING ELECTRODE. THIRTY FEET OF #2/0 BARE COPPER CONDUCTOR.

GROUNDING FLECTRODE TEST MEASURE AND RECORD GROUND RESISTANCE FROM SYSTEM NEUTRAL CONNECTION AT SERVICE ENTRANCE TO CONVENIENT GROUND REFERENCE POINT USING SUITABLE ROUND TESTING EQUIPMENT. MAXIMUM ACCEPTABLE RESISTANCE: 10 OHMS. WHEN RESISTANCE EXCEEDS 10 OHMS; DRIVE AND BOND (#6 COPPER MINIMUM) ANOTHER GROUND ROD, ONE GROUND ROD LENGTH AWAY (MINIMUM 6'-0") AND REPEAT TEST. CONTINUE THIS PROCESS UNTIL RESISTANCE IS BELOW 10 OHMS.

GROUNDING ELECTRODE (UFER TYPE) & BONDING JUMPER(S) DETAIL

N.T.S.

NEUTRAL TERMINAL BLOCK-CONDUCTOR TO GROUND ISOLATED GROUND PANEL METAL BOX BRANCH PANEL SHOWN, SERVICE PANEL SIMILAR) ISOLATED GROUND RECEPTACLE TYPICAL ISOLATED GROUND RECEPTACLE

PERMANENT LABEL SHALL BE 2 x 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. LABEL TO BE PLACED ON DISCONNECT DOOR. CAUTION TWO SOURCES OF SUPPLY STANDBY POWER SOURCE: PORTABLE 6kw GENERATOR

OPTIONAL STANDBY SOURCE

LABEL

EXAMPLE OF OPTIONAL STANDBY SOURCE LABELING ABOVE.

LOCATION: OVERHEAD DOOR.

GENERATOR POWER INLET LABEL

PERMANENT LABEL SHALL BE 2 x 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. LABEL TO BE PLACED 6 INCHES ABOVE GENERATOR RECEPTACLE.

WARNING:

FOR CONNECTION OF A NONSEPARATELY DERIVED (FLOATING NEUTRAL) SYSTEM ONLY (MAXIMUM 6,000 WATT GENERATOR)

EXAMPLE OF LABELING ABOVE.

Series Ratings

1. PROVIDE AT ALL WATER

COLD WATER PIPE AT ELECTRICAL SERVICE

BONDING AT WATER HEATER

IS IN ADDITION TO BONDING

HEATER LOCATIONS.

ENTRANCE.

NQ Panelboards

BOND ALL NONCURRENT CARRYING METAL PARTS OF SERVICE EQUIPMENT (INCLUDING METER

THE GROUNDED NEUTRAL CONDUCTOR SHALL BE RUN TO AND BONDED TO EACH SERVICE

SERVICE EQUIPMENT GROUNDING & BONDING SHALL BE IN ACCORDANCE WITH: *NEC 250-24

*NEC 250-28 *NEC 250-53 *NEC 250-66 *NEC 250-90 *NEC 250-92 *NEC 250-13

BOND METALLIC COLD AND HOT

WITH GREEN INSULATED

CONDUCTOR

WATER PIPING AT WATER HEATER

ICLAMP GREEN INSULATED

- DIELECTRIC UNIONS

✓ WATER HEATER

BONDING JUMPER TO

METALLIC PIPE, TYPICAL

\ E3 /

BONDING REQUIREMENTS

ENCLOSURE) TO GROUNDING ELECTRODE AS REQUIRED. PER NEC 250-92

DISCONNECTING MEANS ENCLOSURE IN ACCORDANCE WITH NEC 250-24c.

METALLIC WATER PIPE BONDING

BONDING OF OTHER ENCLOSURES SHALL BE IN ACCORDANCE WITH NEC 250-96.

SQUARE D

by Schneider Electric www.us.schneider-electric.com FOR CURRENT INFORMATION

This page contains UL Tested and Certified series combination ratings for panelboards. These ratings apply to either an integral main located in the same enclosure or a remote main located in a separate enclosure.

Class 1640

NQ Series Connected Circuit Breaker Ratings Table 9.1: (RMS Symmetrical)

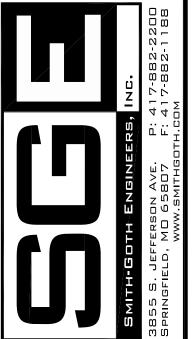
| Max. System | Max. Short Circuit | Square D Brand Integral or Remote Main | Square D Brand Branch Circuit Breaker Catalog Designation and Allowable Ampere Ranges ◆★▼△ | | | | |
|--------------------|--------------------------|---|---|---------|----------|----------|--|
| Voltage AC ▲ ■ | Current Rating | Circuit Breakers and Remote Main Fuses | Туре | 1 Pole | 2 Pole | 3 Pole | |
| 208Y/120 | 200,000 | 200 A Max Class T6 or J Fuses | QO (B) | 15-70 A | 15-125 A | | |
| 3P/4W | 200,000 | 400 A Max Class T3 Fuses | QO (B) | 15-70 A | 15-125 A | 15-100 A | |
| 240/120 V 3P/4W | 100,000 | 200 A Max. Class T3 Fuses | QO (B) | 15-70 A | 15-125 A | 15-100 A | |
| | 200,000 | 400 A Max. Class T3 Fuses | QO (B) | 15-70 A | 15-125 A | 15-100 A | |

- For shown circuit breakers rated less than this maximum voltage, the indicated short circuit current rating also applies, but at the voltage rating of the circuit breaker.
- Short circuit tests are conducted at 100–105% of the maximum rated voltage of the panelboard.
- Suffixes HID, SWD, and SWN may also be applied to the applicable branch circuit breakers shown
- above. Suffix SWN may not be applied in combination with LC main breakers. Where QO (B) circuit breakers are shown above, QO (B) H, QO (B) VH, and QH (B) circuit breakers may
- Where QO (B) GFI circuit breakers are shown above, QO (B) EPD circuit breakers may also be used.

To achieve selective coordination, the rating of the DJ main circuit breaker must be at least two times greater than the ampere rating of any branch circuit breaker.

NGINEER OF RECOR **NORMAN E. GOTH**

FIRM LICENSE NUMBER: 27905 ENGINEER LICENSE NUMBER: 57809 HEETS BEARING THIS SEAL ARE UTHENTICATED, RESPONSIBILITY FOR LL OTHER PLANS, SPECIFICATIONS R INSTRUMENTS ARE DISCLAIMED.



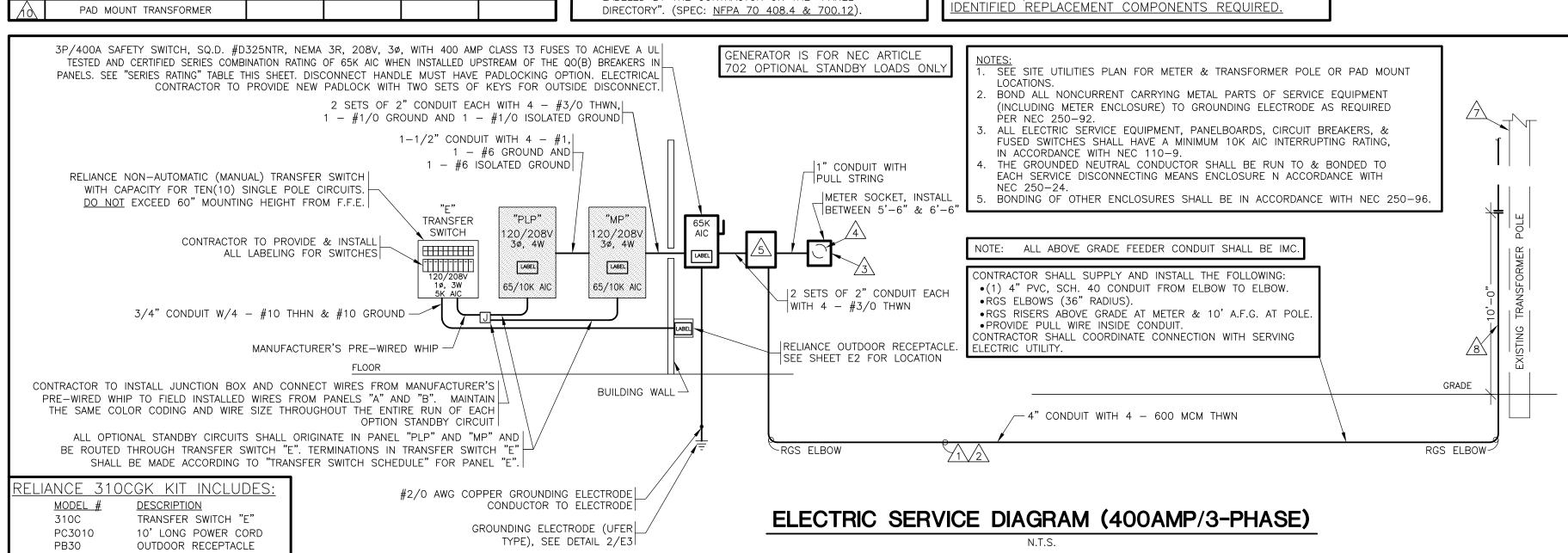
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06/15/2018

REVISION:

PROJECT NUMBER: 18078-OF4



Enclosed Safety Switches General Duty Safety Switches

Table 9: Fusible Safety Switch Short Circuit Current Rating

| Fuse Class | UL Listed Short Circuit Rating |
|--------------------|--------------------------------|
| Plug | 10 kA |
| H, K | 10 kA |
| J ¹ , R | 100 kA |
| T 2 | 100 kA |

- Only applicable to 200–600 A except D325NT, D325NTR, D326NT and D326NTR.
- Only applicable to D325NT, D325NTR, D326NT, D326NTR, T327N and T327NR.

Table 10: Non-Fusible Safety Switch Short Circuit Current Rating

| Fuse Class or Circuit Breaker Type ¹ | UL Listed Short Circuit Rating |
|--|--------------------------------|
| Any Brand Circuit Breaker | 10 kA |
| H or J PowerPact Circuit Breaker | Up to 65 kA ² |
| H, K | 10 kA |
| J, R | 100 kA ³ |
| Т | 100 kA ⁴ |

- Ampere rating of fuse or circuit breaker not to exceed switch ampere ratings.
- Only applicable to DU324 and DU324NRB. HD, JD = 25 kA maximum.
- 3 SCCR = 50 kA, applicable to DU222RB, DU322 and DU322RB.
- Only applicable to DU323, DU323RB, DU325 and DU326.

Standards

General duty safety switches are manufactured in accordance with these

- UL 98, Standard for Enclosed and Dead Front Switches. UL Listed File
- NEMA Standards Publication KS1, Enclosed Switches
- Federal Specifications WS-865c for Type NDS (Type 1) and Type LD (Type 3R)

Table 11: Terminal Lug Data 1

| Ampere Rating | Conductors Per Phase | Wire Range Wire Bending Space Per NEC® Table 312.6 AWG/kcmil | Lug Wire Range AWG/kcmil |
|------------------|-------------------------|---|---|
| 30 ² | 4 | 12-8 (AI) or 14-8 (Cu) | 12-8 (AI) or 14-8 (Cu) |
| 30 | ' | 12-6 (AI) or 14-6 (Cu) | 12-6 (AI) or 14-6 (Cu) |
| 60 | 1 | 12-3 (AI) or 14-3 (Cu) | 12-2 (AI) or 14-2 (Cu) |
| 100 | 1 | 12-1 (Al) or 14-1 (Cu) | 12-1/0 (AI) or 14-1/0 (Cu) |
| | | | |
| 200 | 1 | 6–250 (Al/Cu) | 6–300 (Al/Cu) |
| 400 Type 1 | 1 1 or 2 | 6–250 (Al/Cu) 1/0–600 (Al/Cu) or 1/0–300 (Al/Cu) | 6–300 (Al/Cu) (1) 1/0–750 (Al/Cu) or (2) 1/0–300 (Al/Cu) |
| 400 | 1 | 1/0-600 (Al/Cu) or | (1) 1/0–750 (Al/Cu) or |
| 400 Type 1 | 1 or 2 | 1/0–600 (Al/Cu) or 1/0–300 (Al/Cu) | (1) 1/0–750 (Al/Cu) or (2) 1/0–300 (Al/Cu) (1) 1/0–600 (Al/Cu) |

- 30-100 A switches suitable for 60°C (140°F) or 75°C (167°F) conductors. 200-800 A switches suitable for 75°C (167 °F) conductors.
- ² Light duty switches only.

Heavy Duty

Enclosed Safety Switches General Information

Table 44: Terminal Lug Data 1

| Rating (A) | Wires Per Phase and Neutral | Wire Range Wire Bending Space Per NEC Table 312.6 AWG/kcmil | Lug Wire Range AWG/kcmil | Optional ² Versa-Crimp [™] Compression Lug Field-Installed | Optional Copper Only Versa-Crimp™ Compression Lug Field-Installed ²³ |
|---------------|-----------------------------------|---|---|---|---|
| 30 | 1 | 12–6 (AI) or 14–6 (Cu) | 12–2 (AI) | _ | C10-14 4, D8-14, |
| 30 | 2 | 12–10 (AI) or 14–10 (Cu) | or 14–2 (Cu) | | or E6–14 |
| 60 5 | 1 | 12–3 (AI) or 14–3 (Cu) | 12–2 (AI) or 14–2 (Cu) | - | C10–14 ⁴ , D8–14, or E6–14 |
| 100 6 | 1 | 12–1/0 (AI) or 14–1/0 (Cu) | 12–1/0 (AI) or 14–1/0 (Cu) | VCEL02114S1 | VCELC02114S1 |
| 200 7 | 1 | 6–250 (Al/Cu) | 6-300 (Al/Cu) | VCEL030516H1 | VCELC030516H1 |
| 400 8 | 1 or 2 | 1/0–750 (Al/Cu) or 1/0–300 (Al/Cu) | 1/0–750 (Al/Cu) and 1/0–300 (Al/Cu) | VCEL07512H1 or VCEL030516H1 ⁹ and VCEL05012H1 | VCELC07512H1 or VCELC030516H1 ¹⁰ and VCELC05012H1 |
| 600 | 2 | 3/0-500 (Al/Cu) | 3/0-500 (Al/Cu) | VCEL05012H1 | VCELC05012H1 |
| 800 | 3 | 3/0-750 (Al/Cu) | 3/0-750 (Al/Cu) | H8LKE2 11 | _ |
| 1200 | 4 | 3/0-750 (Al/Cu) | 3/0-750 (Al/Cu) | H12LKE2 12 | _ |

- 1200 4 3/0–750 (Al/Cu) 3/0–750 (Al/Cu) H12LKE2 12 1 30-100 A switches suitable for 60°C (140 °F) or 75°C (167 °F) conductors. 200-1200 A switches suitable for 75°C (167 °F) conductors.
- Hubbell Versa-Crimp™ unless otherwise noted.
- For Type 1, 12/3R, 12K and 4/4X/5 stainless steel switches only. 4 Order C10–14, D8–14 and E6–14 from Thomas and Betts.
- H60XFA and H60XFA1212 use 75°C (167°F) copper wire only. #6 AWG copper wire required for 60 A rating.

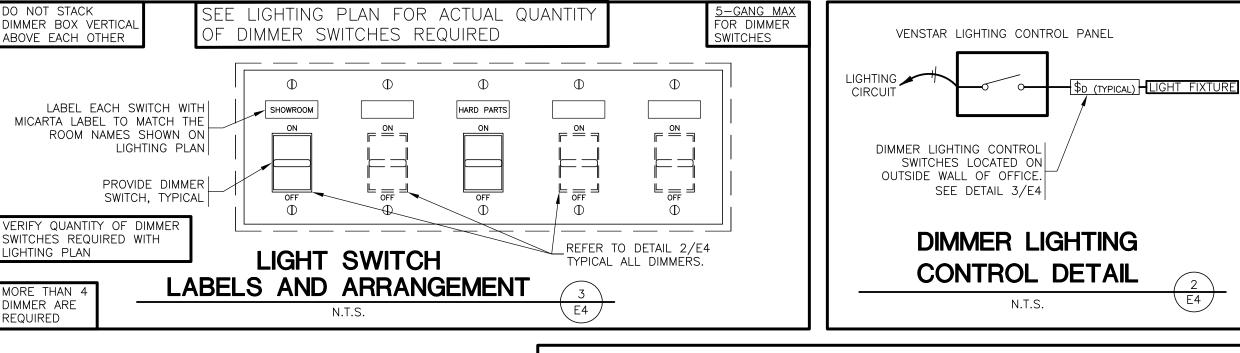
11 For 800 and 1200 A compression lug kits, see Table 37 on page 34 for additional information.

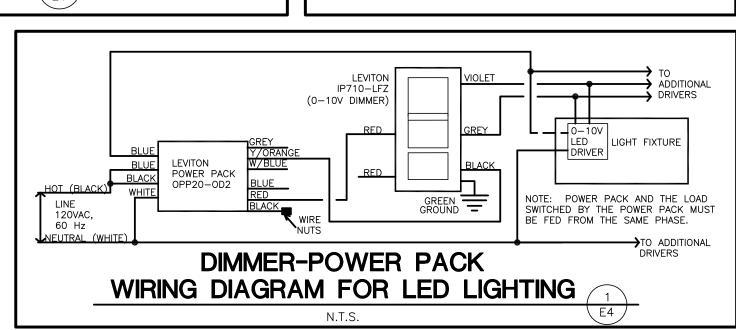
- 6 H100XFA and H100XFA1212 use 75°C (167 °F) copper wire only. #3 AWG copper wire required for 100 A rating. H225XJG and H225XJGAA — use 75°C (167 °F) copper wire only. Lug wire range is #3 AWG – 350 kcmil. Not UL Listed due to inadequate wire bending space
- (5 in. (127 mm) on the ON end, 6 in. (152 mm) on the OFF end). Maximum wire bending space allows for (1) 600 kcmil or (2) 300 kcmil Al/Cu on Type 4/4X/5 stainless steel and Type 12 switches. 9 For Type 1 and 3R only. For Type 4/4X/5 stainless steel and Type 12/3R, 12K use VCEL03038H1 (AI/Cu) or VCELC03038H1 (Cu only). Order two PK516KN mounting
- kits when installing VCEL030518H1 lugs. Only one kit is required on two-pole switches. PK561KN consists of four 5/16-18 (7 mm) Keps Nuts. 10 For Type 4/4X/5 stainless steel and Type 12/3R, 12K use VCEL03038H1 (Al/Cu) or VCELC03038H1 (Cu only). Order two PK516KN mounting kits when installing VCEL030516H1 or VCELC030516H1 lugs. Only one kit is required on two-pole switches. PK561KN consists of four 5/16-18 (7 mm) Keps Nuts.

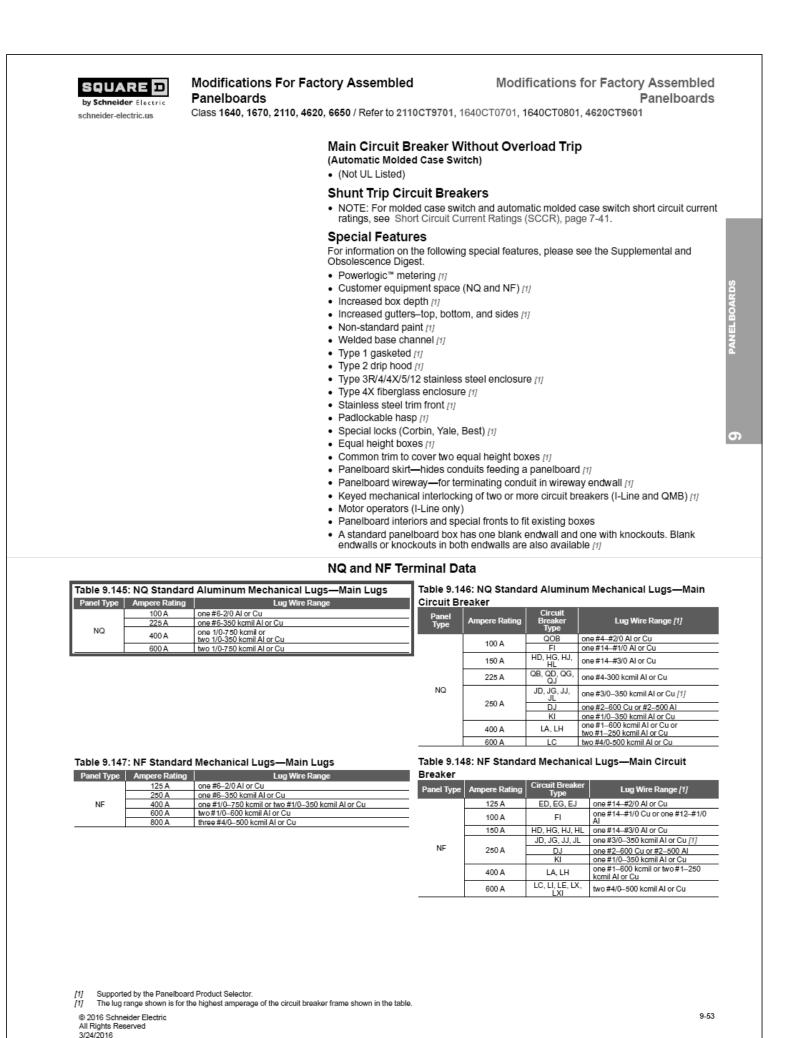
GENERAL ELECTRICAL NOTES

- DRAWINGS ARE DIAGRAMMATIC & ARE NOT TO BE SCALED. SEE THE ARCHITECTURAL PLANS & FIELD VERIFY CONDITIONS FOR DIMENSIONS.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE EDITION OF NFPA 70-NATIONAL ELECTRIC CODE (NEC) AS NOTED ON THE CODE SUMMARY SHEET ALL WIRING SHALL BE IN CONDUIT, EXCEPT THAT MC-CABLE MAY BE SUBSTITUTED ONLY AS FOLLOWS:
- A. MC-CABLE (MAXIMUM CABLE LENGTH OF 10'-0") MAY BE INSTALLED ONLY FOR BRANCH CIRCUIT WIRING TO LIGHT FIXTURES.
- B. MC-CABLE (MAXIMUM CABLE LENGTHS SHOWN ON DETAIL 1/E2) MAY BE INSTALLED ONLY ABOVE SLAB AND INSIDE OF THE FRONT CHECKOUT COUNTERS. FEEDER CONDUIT SHALL BE IMC OR RGS ABOVE GRADE & PVC BELOW GRADE WITH IMC OR RGS ELLS & RISERS. INTERIOR BRANCH CIRCUIT CONDUIT SHALL BE ELECTRICAL METALLIC TUBING. EXTERIOR BRANCH CIRCUIT CONDUIT SHALL BE PVC BELOW GRADE WITH IMC OR RIGID GALVANIZED STEEL CONDUIT CONTINUING
- ABOVE GRADE. (SPEC 26 05 33) COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATION DOES NOT MEAN "I WAS HERE FIRST."
- ALL WIRING IN FINISHED SPACES SHALL BE CONCEALED, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE & FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY
- CALLED OUT. COORDINATE ALL EQUIPMENT ROUGH-IN CONNECTION REQUIREMENTS.
- 9. ALL OUTLET BOXES SHALL BE METALLIC. (SPEC 26 05 34) 10. ALL CAULKING ON BUILDING PENETRATIONS SHALL BE ELASTOMERIC POLYURETHANE (NO EXCEPTIONS), EQUAL TO "VULKEM" 116. ANY CONTRACTOR WHO USES SILICONE OR ANY OTHER CAULKING WILL BE REQUIRED TO
- REMOVE & REPLACE WITH ELASTOMERIC POLYURETHANE. 11. RECEPTACLES INSTALLED IN RESTROOMS SHALL BE GFCI TYPE OR SHALL BE PROTECTED BY A GFI DEVICE.

- 12. ALL DEVICES SHALL BE IVORY & SHALL BE EQUAL TO THE FOLLOWING SINGLE POLE SWITCHES --THREE-WAY SWITCHES --DUPLEX RECEPTACLE -- (SPEC 26 27 26) GFCI DUPLEX RECEPTACLE --
- ISO. GRD. RECEPTACLES --13. USE DEVICE PLATES MANUFACTURED BY THE DEVICE MANUFACTURER. (SPEC 26 27 26)
- 14. FEEDER & BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, STRANDED, 600V THHN/THWN INSULATION EXCEPTION: WIRE SIZES #10 AWG & SMALLER SHALL BE SOLID. (SPEC 26 05 19) 15. CONTRACTOR SHALL PROVIDE A TYPED CIRCUIT DIRECTORY FOR ALL PANELS. (SPEC 26 05 53)
- 16. CONTRACTOR SHALL PROVIDE A ONE(1) YEAR WARRANTY ON ALL WORK PERFORMED. 17. CONTRACTOR SHALL PROVIDE NEW WORKING LAMPS IN ALL LIGHT FIXTURES AT JOB COMPLETION. 18. CONTRACTOR SHALL COORDINATE WITH & SHALL INCLUDE ALL FEES FOR THE SERVING "ELECTRIC UTILITY CO." TO PROVIDE ELECTRIC SERVICE AS SHOWN. CONTRACTOR SHALL ALSO INCLUDE ALL FEES FOR THE "SERVING
- PHONE COMPANY" TO INSTALL NO LESS THAN 10 PAIR CABLE TO BUILDING. 19. CONTRACTOR SHALL ARRANGE FOR & INCLUDE ALL PERMITS & FEES FOR HIS SCOPE OF WORK. 20. CONTROL WIRING BY HVAC CONTRACTOR. FINAL CONNECTIONS BY HVAC CONTRACTOR. SEE SHEET M1. 21. APPROVED MANUFACTURERS:
 - A. <u>PANELBOARDS & SAFETY</u> B. <u>DEVICES:</u> C. <u>FLOOR BOXES:</u> **SWITCHES (DISCONNECTS):** -- 'SQUARE D' -- 'HUBBELL' -- 'STEEL CITY' -- 'G.E.' -- 'LEVITON' -- 'APPLETON' -- 'SEIMENS' -- 'PASS & SEYMOUR' -- 'HUBBELL' -- 'CUTLER-HAMMER'
- (SPEC 26 24 00) (SPEC 26 27 26) (SPEC 26 05 34) 22. MULTIWIRE BRANCH CIRCUITS WITH A "SHARED NEUTRAL" ARE NOT ALLOWED FOR SINGLE PHASE CIRCUITS





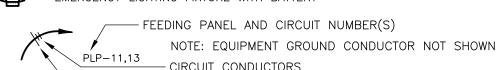


ELECTRICAL SYMBOL LEGEND & ABBREVIATIONS

- SINGLE POLE SWITCH
- TWO POLE SWITCH
- THREE-WAY SWITCH
- MOTOR STARTING SWITCH WITH PILOT LIGHT
- CLASS 1, DIVISION 1 HAZARDOUS LOCATION RATED SWITCH ASSEMBLY
- WALL MOUNTED OCCUPANCY SENSOR EQUAL TO "LEVITON, ODS10-ID"

\$Pw2 WALL MOUNTED OCCUPANCY SENSOR EQUAL TO "LEVITON, OSSMD-MD"

- FAN SPEED SWITCH (SUPPLIED BY HVAC CONTRACTOR / INSTALLED BY ELECTRICAL CONTRACTOR)
- 0-10V LED DIMMER SWITCH, EQUAL TO "LEVITON, IP710-LFZ". SEE DETAILS THIS SHEET (5-GANG MAX)
- LEVITON POWER PACK OPP20-0D2
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- ISOLATED GROUND DUPLEX RECEPTACLE (ORANGE IN COLOR). SEE DETAIL 1/E3
- # QUADPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES IN ONE 2-GANG BOX UNDER A SINGLE COVERPLATE)
- EXISTING UNPOWERED DUPLEX RECEPTACLE
- ISOLATED GROUND QUADPLEX RECEPTACLE (TWO ISO. GRD. DUPLEX RECEPTACLES IN ONE 2-GANG BOX UNDER A SINGLE RED IN COLOR COVERPLATE)
- QUADPLEX RECEPTACLE (CIRCUIT TO BE WIRED THRU OCCUPANCY SENSOR) INSTALL A PERMANENT LABEL ON EACH OUTLET STATING "SENSOR CONTROLLED OUTLET". SEE DETAIL ON SHEET E2
- ABOVE COUNTER GFCI (GROUND FAULT CIRCUIT INTERRUPTING) DUPLEX RECEPTACLE
- WEATHER PROOF GFCI (GROUND FAULT CIRCUIT INTERRUPTING) DUPLEX RECEPTACLE. COVER TO PROVIDE WEATHER PROOF PROTECTION WITH CORD AND PLUG IN USE
- TELE-POWER POLE
- JUNCTION BOX
- PC REMOTE PHOTO CONTROL
- COMPUTER DATA OUTLET BOX
- 4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR W/QUADPLEX RECEPTACLE (SEE ABOVE RECEPTACLE DESCRIPTION). SEE DETAIL 4/E2 FOR INSTALLATION OF BOX
- 4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR W/QUADPLEX ISOLATED GROUND RECEPTACLE (SEE ABOVE ISOLATED GROUND RECEPTACLE DESCRIPTION). SEE DETAIL 4/E2 FOR INSTALLATION OF BOX
- 4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR W/QUADPLEX ISOLATED GROUND RECEPTACLE (SEE ABOVE ISOLATED GROUND RECEPTACLE DESCRIPTION). SEE DETAIL 4/E2 FOR INSTALLATION OF BOX. OUTLET COVER SHALL BE RED IN COLOR
- 2" x 4" RECTANGULAR STEEL BOX MOUNTED FLUSH ON FLOOR W/DUPLEX RECEPTACLE (SEE ABOVE RECEPTACLE DESCRIPTION). SEE DETAIL 4/E2 FOR INSTALLATION OF BOX
- NEMA L5-30R SPECIAL RECEPTACLE
- XX/XX FUSED DISCONNECT (SAFETY) SWITCH W/ SWITCH AMPACITY / FUSE AMPACITY AS INDICATED
- NON-FUSED DISCONNECT (SAFETY) SWITCH
- POWER OR LIGHTING PANEL W/PANEL DESIGNATION SHOWN ON PLAN (SIZES & MOUNTING INDICATED ON PLANS)
- 24 HOUR EGRESS & SECURITY LIGHT, WIRE DIRECT TO ELECTRIC PANEL AHEAD OF ANY LOCAL SWITCHES AND LIGHTING CONTROL PANEL
- WALL/CEILING MOUNTED COMBINATION "EXIT/EMERGENCY" SIGN W/SHADING INDICATING FACES
 - EMERGENCY LIGHTING FIXTURE WITH BATTERY



- CIRCUIT CONDUCTORS - GROUNDED CIRCUIT CONDUCTOR (OR NEUTRAL)
- (MD) MOTION DETECTOR BY VENSTAR. SEE VS SHEETS FOR MORE INFORMATION OCCUPANCY SENSOR EQUAL TO "LEVITON, OSC20-MAW" WITH POWER PACK
- LOCATED ABOVE COUNTER PACKAGED ROOFTOP UNIT ABOVE FINISHED FLOOR INTERMEDIATE METALLIC TUBING
- BCU BLOWER COIL UNIT CDU CONDENSING UNIT EXHAUST FAN U ELECTRIC FURNACE FURN GAS FURNACE

AHU AIR HANDLER

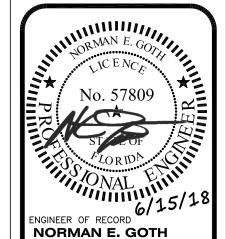
HEAT PUMP UNIT

POWER PACK

- LIGHTING CONTRACTOR MOTOR STARTING RED IN COLOR COVERPLATE MOTOR STARTING W/PILOT LIGHT NIGHT LIGHT PHOTOELECTRIC CONTROL RGS RIGID GALVANIZED STEEL
- JPO UN-POWERED OUTLET S TIME SWITCH WALL OUTLET (46" AFF SEE MOUNTING HEIGHTS) WP WEATHERPROOF (ENCLOSURE) EXPLOSION PROOF ASSEMBLY GFCI GRD./FAULT CIRCUIT INTERRUPT

EMT ELECTRICAL METALLIC TUBING

CM CEILING MOUNTED







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