# ELECTRICAL SYMBOLS LIST

**ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT**

- SINGLE RECEPTACLE: 20A HUBBELL HBL5361 W 18" TO CENTER UNO
- DUPLEX RECEPTACLE: 20A HUBBELL HBL5362W (NEMA 5-20R) 18" TO CENTER UNO, WHITE
- DUPLEX GFI RECEPTACLE: 20A HUBBELL GFR5362SGW 18" TO CENTER UNO, WHITE
- FOURPLEX RECEPTACLE - (2) 20A DUPLEX 18" TO CENTER UNO
- FOURPLEX GFI RECEPTACLE - (2) 20A DUPLEX 18" TO CENTER UNO
- WEATHERPROOF COVERS:
  WP FOR SINGLE RECEPTACLES, 'TAYMAC' MODEL NO. MM410C
  WP FOR DUPLEX RECEPTACLES, 'HUBBELL' MODEL NO. WP826MP
- IG COMPUTER RECEPTACLE AT 18" AFF TO CENTER UNO, HUBBELL #IG5362 ORANGE
- SPECIAL RECEPTACLE AS NOTED ON DRAWINGS 18" TO CENTER UNO
- DATA/TELEPHONE BOX & WHITE COVER PLATE AT 18" AFF TO CENTER UNO. PROVIDE 3/4" CONDUIT WITH PULL STRING TO 6" A.F.C.
- JUNCTION BOX IN ACCESSIBLE LOCATION
- JUNCTION BOX MTD. IN JOIST AREA. CONDUITS CONNECTED BETWEEN SUCH BOXES SHALL BE ROUTED IN JOIST AREA
- INDICATES CIRCUIT IN CONDUIT RUN BELOW SLAB
- INDICATES CIRCUIT IN CONDUIT CONCEALED IN WALLS OR ABOVE CEILING
- INDICATES HOMERUN TO PANELBOARD OR AS NOTED
- EMS NATIONAL ACCOUNTS VENDOR PUSH-BUTTON OVERRIDE - FURNISHED BY EMS NATIONAL ACCOUNTS VENDOR, INSTALLED & WIRED BY EC
- LAY-IN SPEAKER - REFER TO 1/EDC AND EDC SYMBOLS LISTS FOR FURTHER INFORMATION. NO CONDUIT STUB NEEDED
- ONE-WAY FLEX HORN - REFER TO 1/EDC AND EDC SYMBOLS LISTS FOR FURTHER INFORMATION. NO CONDUIT STUB NEEDED
- PENDANT MOUNTED SPEAKER - REFER TO 1/EDC AND EDC SYMBOLS LISTS FOR FURTHER INFORMATION. NO CONDUIT STUB NEEDED
- DOOR BUZZER EDWARDS #1065-G5, 24V, 6 WATT, WITH LOUVERED COVER PLATE
- DOOR HORN EDWARDS #867AQ, 24V, 4.8 WATT
- PUSH-BUTTON - LOW VOLTAGE (24VOLT, 10.0 AMP AC, 4.0 AMP DC)
  AT VESTIBULE PROVIDE - EDWARDS #690-W - FLUSH MOUNT WITH SNAP FIT MOUNTING, INSTALLED AT 44" A.F.F.
  AT RECEIVING PROVIDE - EDWARDS #691-W - FLUSH MOUNT WITH LOCKNUT FIT MOUNTING, INSTALLED AT 54" A.F.F.
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- VOLUME CONTROL, BY OTHERS - PROVIDE SINGLE GANG BOX AT 42" AFF UNO & 1/2" CONDUIT TO CEILING SPACE
- MOTOR - SIZE AS INDICATED ON DRAWINGS
- DISCONNECT SWITCH - SIZE AND FUSES AS PER MANUFACTURER'S RECOMMENDATIONS (WP WHERE OUTSIDE)

- PANELBOARD - MOUNT AT 6'-6" TO TOP
- $S_M$ H.P. RATED MANUAL MOTOR STARTER (WP WHERE OUTSIDE)
- MD MOTORIZED DAMPER
- $S_P$ SINGLE POLE SWITCH W/PILOT LIGHT AT 44" AFF OR AS NOTED. 20A, HUBBELL 1221- PLC/1221-PLC C7
- WF WATER FLOW SWITCH
- TS TAMPER SWITCH
- C DOOR CONTACT, SEE DETAIL 5/E3.0
- AFC ABOVE FINISHED CEILING
- TMB 3/4" PLYWOOD TELEPHONE MOUNTING BOARD WITH #6 CU. GROUND AND DEDICATED DUPLEX CONV ENIENCE RECEPTACLES AS SHOWN ON PLANS. FURNISH IN ACCORDANCE WITH TELCO REQUIREMENTS. SIZE AS NOTED
- WP WEATHERPROOF (RAIN TIGHT)
- SES SERVICE ENTRANCE SECTION
- EWC ELECTRIC WATER COOLER
- UNO UNLESS NOTED OTHERWISE
- C CONDUIT
- EF EXHAUST FAN - 120V. UNLESS OTHERWISE NOTED
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- IG ISOLATED GROUND
- SACP SPRINKLER ALARM CONTROL PANEL
- S SENSOR - SEE MECHANICAL & ELECTRICAL SHEETS FOR EXACT LOCATIONS. SENSORS (GENERAL) AT 90" AFF TO CENTER UNO.
- H COMBINATION TEMPERATURE / HUMIDITY SENSOR - SEE MECHANICAL PLANS. SENSORS (GENERAL) AT 90" AFF - UNO.
- T ADJUSTABLE THERMOSTAT - SEE MECHANICAL PLAN FOR EXACT LOCATIONS. SENSORS (GENERAL) AT 90" AFF TO CENTER UNO.
- E EMS TEMPERATURE SENSOR
- CO2 CO2 SENSOR - SEE MECHANICAL & ELECTRICAL SHEETS FOR EXACT LOCATIONS - AT 54" AFF TO CENTER UNO.
- NH EMS NATIONAL ACCOUNTS VENDOR HUMIDITY SENSOR - SEE MECHANICAL PLAN FOR EXACT LOCATION. SENSORS (GENERAL) AT 90" AFF TO CENTER UNO.
- NT EMS NATIONAL ACCOUNTS VENDOR TEMPERATURE SENSOR - SEE MECHANICAL PLAN FOR EXACT LOCATION. SENSORS (GENERAL) AT 90" AFF - UNO.
- DSD DUCT SMOKE DETECTOR
- MOTOR CONTROLLER - PROVIDED BY EC - SIZE AS NOTED
- MOTOR CONTROLLER - FURNISHED WITH MOTOR

# LIGHTING SYMBOLS

**ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT**

- 4 1/2" x 49" TYPE 'A4' LED LIGHT.
- 4 1/2" x 97" TYPE 'A8' LED LIGHT.
- 24" x 24" LED LIGHT.
- 24" x 24" NIGHT LED LIGHT.
- 48" LINEAR WALL MOUNTED LED LIGHT.
- EXTERIOR RECESSED LED DOWN LIGHT.
- EXTERIOR WALL MOUNTED FIXTURE.
- SURGERY AND TREATMENT LIGHT
- EXIT SIGNS (PENDANT MOUNTED).
- EXIT SIGNS (WALL / BULKHEAD MOUNTED).
- TWO-HEAD EMERGENCY FIXTURE.
  MOUNT TO STRUCTURE (UNDERSIDE OF JOIST) IN SALES & RECEIVING. CEILING MOUNT IN ROOMS WITH LAY-IN CEILINGS.
- TWO-HEADED EMERGENCY EGRESS FIXTURE.
- EMERGENCY EGRESS FIXTURE BATTERY UNIT.
- $ SINGLE POLE TOGGLE SWITCH MOUNTED AT 42" A.F.F. TO CENTER OR AS NOTED HUBBELL #1221, 20A, 120/277V, (WHITE).
- $D SINGLE POLE DIMMER SWITCH MOUNTED AT 42" A.F.F. TO CENTER OR AS NOTED LUTRON #DVSTV-WH, 8A, 120/277V, (WHITE). PROVIDE PURPLE AND GRAY WIRES TO LIGHTS CONTROLLED.
- $3 THREE WAY TOGGLE SWITCH MOUNTED AT 42" A.F.F. TO CENTER OR AS NOTED HUBBELL #1223, 20A, 120/277V, (WHITE).
- M CEILING MOTION SENSOR - 'SENSOR SWITCH' MODEL #OAC-DT, LINE VOLTAGE - MICROSET DUAL TECH
- NL NIGHT LIGHT WIRED TO AN UNSWITCHED CIRCUIT.
- EM EMERGENCY LIGHT WIRED TO AN UNSWITCHED CIRCUIT.

# WALL DEVICES & COVER PLATE FINISHES

ALL WALL DEVICES (RECEPTACLES, SWITCHES, DATA OUTLETS, ETC) AND COVER PLATES TO BE WHITE, EXCEPT:

- RECEIVING - ROOM 117, MECHANICAL ROOMS, AND SIMILAR AREAS WITH EXPOSED CONDUIT TO HAVE GALVANIZED STEEL COVER PLATES.
- IG RECEPTACLES TO BE ORANGE.

# INTERGRATED POWER CENTER (IPC)

**GENERAL NOTES AND CRITICAL DESIGN REQUIREMENTS**

1. THE INTEGRATED POWER CENTER (IPC) SHALL BE DELIVERED IN TWO (2) SHIPPING SPLITS, SEE ELEVATION 6/E3.0 FOR ADDITIONAL INFORMATION. INSURE THAT ALL INTERNAL CONDUCTORS ARE TERMINATED PROPERLY. CONNECT CABINET SECTIONS FOR A COMPLETE INSTALLATION. SEE NOTE 11 BELOW.
2. PROVIDE A MAXIMUM OF 10'-0" PRODUCT WIDTH TO MEET THE FOOTPRINT REQUIREMENTS (INCLUDES N.E.C. CODE CLEARANCE).
3. TOP LIFT PROVISIONS FOR EASE OF LIFTING AND SETTING THE INTEGRATED POWER CENTER (IPC) AGAINST BUILDING WALL. THE ESTIMATED INTEGRATED POWER CENTER (IPC) WEIGHT IS 1800 LBS.
4. THE INTEGRATED POWER CENTER (IPC) WILL BE DELIVERED WITH THE TRANSFORMER LOOSE.
5. E.C. SHALL BE RESPONSIBLE FOR THE PURCHASE OF NATIONAL ACCOUNTS VENDOR'S INTEGRATED POWER CENTER (IPC) AND LOOSE PANELS INDICATED. E.C. SHALL PROVIDE PURCHASE ORDER TO NATIONAL ACCOUNTS VENDOR A MINIMUM OF 8 WEEKS PRIOR TO DELIVERY REQUIREMENTS (TO GUARANTEE A MANUFACTURING SLOT IN THE SCHEDULE TO MEET REQUESTED DELIVER DATE). CONTACT NATIONAL ACCOUNTS VENDORS FOR PURCHASING, DELIVERY, AND PRODUCT COORDINATION REQUIREMENTS. SEE SHEET F2.0 FOR NATIONAL ACCOUNT VENDORS CONTACT INFORMATION. NOTE: CONTACT NATIONAL ACCOUNTS VENDOR 2 WEEKS PRIOR TO DELIVERY TO CONFIRM DELIVERY AND OBTAIN SITE SPECIFIC PRODUCT DRAWINGS (FINAL EQUIPMENT LOCATIONS - STUB-UP COORDINATION).
6. E.C. RESPONSIBLE TO RE-TORQUE ALL PRE- WIRED FEEDER/ BRANCH CIRCUIT TERMINATIONS UPON DELIVERY OF THE INTEGRATED POWER CENTER (IPC).
7. E.C. RESPONSIBLE FOR OFF LOADING AND SETTING THE PREFABRICATED INTEGRATED POWER CENTER (IPC) WHEN IT ARRIVES ON SITE.
8. IT IS THE E.C.'S RESPONSIBILITY TO OBTAIN QUOTES FROM NATIONAL ACCOUNT VENDOR(S).
9. E.C. IS RESPONSIBLE TO GIVE NATIONAL ACCOUNTS VENDOR A 6 WEEK WRITTEN REQUEST OF THE REQUIRED ON-SITE DATE. SEE CONTACT INFORMATION FURNISHED IN #5 ABOVE.
10. E.C. IS TO CONTACT NATIONAL ACCOUNTS VENDOR TO OBTAIN SITE SPECIFIC DRAWINGS. DRAWINGS IN THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. NATIONAL ACCOUNTS VENDOR WILL PROVIDE A SET OF "AS-BUILT" DRAWINGS TO THE SUCCESSFUL E.C. SO ACCURATE ROUGH-IN COORDINATION CAN BE COMPLETED.
11. IT THE THE RESPONSIBILITY OF THE E.C. TO DETERMINE IF AN EXTERIOR MEANS OF DISCONNECT IS REQUIRED. IF SO, PLEASE REFER TO THE OPTIONS SECTION IN THE NATIONAL ACCOUNTS VENDOR PROPOSAL TO CHOOSE THE PRICE ADDER FOR A SHUNT TRIP OR FUSIBLE DISCONNECT.

# ELECTRICAL GENERAL NOTES

1. ALL LED AND/OR FLUORESCENT LAMPS NOT INCLUDED WITH FIXTURES ARE FURNISHED BY THE GENERAL CONTRACTOR THROUGH NATIONAL ACCOUNT VENDOR.
2. PROVIDE FIXTURE SAFETY CHAINS WHERE REQUIRED.
3. ALL LAY-IN FIXTURES SHALL BE FURNISHED WITH "FIXTURE SUPPORT CLIPS" PER NEC SECTION 410.
4. OFFSET LIGHT FIXTURES AS NEEDED TO CLEAR STRUCTURAL BRIDGING ACROSS STORE.
5. ALL LIGHT SWITCHES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO ADJACENT DOOR FRAMES AT A.D.A. HEIGHTS. COORDINATE LOCATIONS WITH ALL FIXTURES/EQUIPMENT.
6. ALL LIGHTING SHALL BE CIRCUITED AS SHOWN TO ALLOW MULTI-LEVEL SWITCHING FOR ENERGY MANAGEMENT CONTROL, SEE SHEET EM2.
7. CONDUIT AND PIPING SHALL BE ROUTED PARALLEL WITH WALLS IN MAIN SALES AND RECEIVING. RUNS SHALL BE GROUPED TOGETHER WHERE PRACTICAL & HOLD AS HIGH AS POSSIBLE AND SUSPEND TIGHT TO UNDERSIDE OF THE TOP CORD OF JOIST. ENTIRE INSTALLATION SHALL BE INSTALLED PER THE NEC.
8. PROVIDE ZERO DEGREE BALLASTS FOR FIXTURES LOCATED OUTSIDE.
9. ALL ELECTRICAL CONDUITS/WIRING MUST RUN OVERHEAD (UNO) UNLESS REQUIRED TO RUN UNDERGROUND. ANY EXCEPTIONS MUST BE APPROVED BY PETSMART CONSTRUCTION MANAGER.
10. SNAP SWITCHES THAT ARE GROUPED OR GANGED IN AN ENCLOSURE WITH OTHER SNAP SWITCHES OR SIMILAR DEVICES THAT THE VOLTAGE BETWEEN THE ADJACENT DEVICES EXCEEDS 300 VOLTS, MUST HAVE A PERMANENT BARRIER INSTALLED BETWEEN THE ADJACENT DEVICES PER THE N.E.C.
11. GENERAL CONTRACTORS SHALL CONTACT NATIONAL ACCOUNT VENDOR FOR BID PRICING ON FIRE AND BURGLAR ALARM SYSTEMS - SEE SPECIFICATIONS.
12. PROVIDE (2) PULL STRINGS IN EACH EMPTY CONDUIT FOR DATA & PHONE BOXES.
13. REFER TO ENERGY MANAGEMENT SHEETS EM1 & EM2 FOR SENSOR MOUNTING.
14. SEE ARCHITECTURAL ELEVATION DRAWINGS FOR EXACT PLACEMENT OF OUTLETS.
15. E.C. TO VERIFY EXACT CONDUIT SIZE PRIOR TO ROUGH-IN OF BOXES FOR PHONE AND DATA.
16. WHERE CONDUITS, DEVICE BOXES, ETC. ARE SURFACE MOUNTED, SEAL ALL PENETRATIONS WITH SIKA, SIKAFLEX 1A POLYURETHANE SEALANT.
17. ALL LIGHT FIXTURES DESIGNATED 'EM' OR 'NL' TO BE UNSWITCHED, UNO .
18. SEE SHEET E0.1 FOR ONE LINE DIAGRAM KEYED NOTES.
19. PROVIDE CONDUIT FOR LOW VOLTAGE WIRING WHEN REQUIRED BY CODE. TERMINATE PHONE & DATA WIRING AT PETSMART SERVER LOCATION.
20. ALARM PACKAGE: THE ALARM PACKAGE WILL REQUIRE AN AVERAGE OF 15 CONDUIT DROPS WITH BOXES, AND 35 BACK BOXES (ONLY) FOR CEILING MOUNTED DEVICES - THIS IS SUBJECT TO CHANGE BASED ON LOCAL REQUIREMENTS AND FINAL STORE DESIGN. ALL CEILING MOUNTED ALARM & INTRUSION DEVICES WILL REQUIRE A BACK BOX PROVIDED BY THE E .C. ANY QUESTIONS, CONTACT NATIONAL ACCOUNT VENDOR - ADT COMMERCIAL (954) 235-9411. SEE ARCHITECTURAL DRAWING F2.0 PRODUCT SCHEDULE.
21. LED CIRCUIT: WHEN USING MULTI-BRANCH WIRE CIRCUITS WITH A SHARED NEUTRAL, DO NOT OPERATE ANY CIRCUIT WITH THE NEUTRAL OPEN. ALSO ENSURE ALL NEUTRAL CONNECTIONS ARE SECURE BEFORE ENERGIZING THE CIRCUIT. AN OPEN NEUTRAL CAN CAUSE AN OVERVOLTAGE CONDITION AT THE LUMINAIRE POWER SUPPLY.
22. E.C. IS RESPONSIBLE TO OBTAIN QUOTES FROM NATIONAL ACCOUNTS VENDOR.

# MINIMUM WIRE & CONDUIT SIZES

**FOR CIRCUIT BREAKERS AND FUSES**

| AMPS | FEEDER | GROUND | CONDUIT |
|---|---|---|---|
| 15 | #12 | #12 | 3/4" |
| 20 | #12 | #12 | 3/4" |
| 25 | #10 | #10 | 3/4" |
| 30 | #10 | #10 | 3/4" |
| 35 | #8 | #10 | 3/4" |
| 40 | #8 | #10 | 3/4" |
| 45 | #8 | #10 | 3/4" |
| 50 | #8 | #10 | 3/4" |
| 60 | #6 | #10 | 3/4" |
| 70 | #4 | #8 | 1" |
| 80 | #4 | #8 | 1" |
| 90 | #3 | #8 | 1-1/4" |
| 100 | #3 | #8 | 1-1/4" |

PROVIDE THE FOLLOWING QUANTITIES:

- 1 POLE CIRCUIT - 1 HOT, 1 NEUTRAL, 1 GROUND
- 2 POLE CIRCUIT - 2 HOT, 1 GROUND
- 3 POLE CIRCUIT - 3 HOT, 1 GROUND
- 1 POLE IG CIRCUIT - 1 HOT, 1 NEUTRAL, 1 GROUND, 1 ISOLATED GROUND.

# FAULT CURRENT SUMMARY

| | |
|---|---|
| UTILITY X.F.M.R. SECONDARY: | 20,056 A.I.C. |
| FUSED DISCONNECT SWITCH: | 17,955 A.I.C. |
| MAIN DISTRIBUTION PANEL: | 17,800 A.I.C. |
| PANEL "HA": | 16,070 A.I.C. |
| PANEL "LDP": | 9,012 A.I.C. |
| LIGHTING CONTACTORS: | 7,187 A.I.C. |
| PANEL "LA": | 6,640 A.I.C. |
| PANEL "LB": | 1,776 A.I.C. |
| PANEL "FC": | 4,479 A.I.C. |
| PANEL "GA": | 2,848 A.I.C. |
| PANEL "VA": | 2,733 A.I.C. |
| RTU-8 (NEAREST RTU/HIGHEST AVAILABLE FAULT CURRENT) | 3,610 A.I.C. |

CALCULATION BASED ON BUSSMANN 'POINT-TO-POINT' METHOD USING A 500kVA XFMR WITH 3% IMPENDENCE AND 833 A MOTOR CONTRIBUTION

# ONE LINE DIAGRAM SYMBOL LEGEND

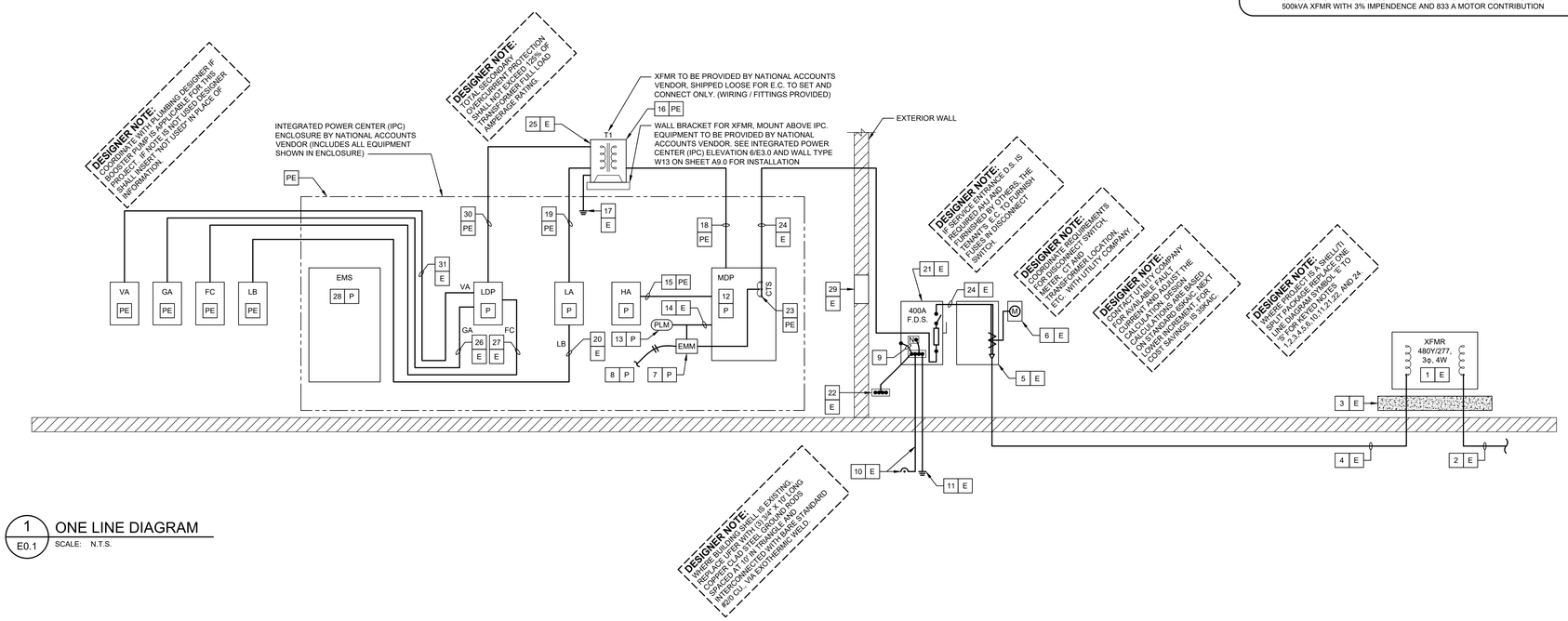
- P FURNISHED BY NATIONAL ACCOUNTS VENDOR WITHIN THE INTEGRATED POWER CENTER WITH EQUIPMENT INSTALLED AND FACTORY WIRED. E.C. SHALL WALL MOUNT AND RE-TORQUE ALL CONNECTIONS.
- E PROVIDED BY ELECTRICAL CONTRACTOR.
- PE FURNISHED BY NATIONAL ACCOUNTS VENDOR, INSTALLED BY ELECTRICAL CONTRACTOR.
- EX EXISTING TO REMAIN.
- S INSTALLED UNDER SHELL PORTION OF CONTRACT BY LANDLORD'S ELECTRICAL CONTRACTOR.

# ONE LINE DIAGRAM KEYED NOTES

1. POWER COMPANY TRANSFORMER: ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH UTILITY COMPANY. VERIFY SERIES RATING OF FUSE AND MAIN CIRCUIT BREAKER SUCH THAT THEIR A.I.C. RATING IS GREATER THAN AVAILABLE FAULT. SEE FAULT CALCULATION THIS SHEET.
2. PRIMARY SERVICE: CONDUIT SIZE PER UTILITY COMPANY PRIMARY FEED.
3. TRANSFORMER PAD: 6" MINIMUM CONCRETE, PER UTILITY COMPANY REQUIREMENTS.
4. 400A ELECTRICAL SERVICE: TWO (2) SETS OF 3" C. WITH (4) 3/0 CU (XHHW) PER UTILITY COMPANY REQUIREMENTS.
5. EXTERIOR C/T CABINET: PER UTILITY COMPANY REQUIREMENTS.
6. UTILITY COMPANY METER: PER UTILITY COMPANY REQUIREMENTS.
7. ENERGY MONITORING METER: SMARTCELL PHASE LOSS MONITOR KW PULSE METER PROVIDED, INSTALLED, & WIRED BY NATIONAL ACCOUNTS VENDOR IN INTEGRATED POWER CENTER (IPC) ENCLOSURE.
8. E.M.S. CONTROLLER: TO (E.M.S.) CONTROLLER. CONTRACTOR TO COORDINATE REQUIREMENTS WITH NATIONAL ACCOUNTS VENDOR.
9. MAIN BONDING JUMPER: #2/0 CU (VERIFY).
10. GROUND BOND: #2/0 CU. BOND TO COLD WATER MAIN AND BUILDING STEEL, EXTEND SYSTEM GROUND TO SPRINKLER.
11. GROUND ROD: THREE (3) 3/4" X 10' LONG COPPER CLAD STEEL RODS 10'-0" APART, PER N.E.C. 250.52 (3).
12. MDP: SEE MDP SCHEDULE.
13. PHASE LOSS MONITOR: PROVIDED BY NATIONAL ACCOUNTS VENDOR - INSTALLED WITHIN THE INTEGRATED POWER CENTER (IPC). (1) 2 CONDUCTOR 18 GA. TO EMS NATIONAL ACCOUNTS VENDOR CONTROLLER.
14. PHASE LOSS FEEDER: PROVIDE (3)#12 THHN CU. 1/2"C TO PHASE LOSS MONITOR - SEE SHEET EM2 FOR CONNECTION REQUIREMENT. CONDUCTOR LENGTH SHALL BE 12' MINIMUM.
15. 100A "HA" FEEDER: (4) #3 (XHHW) CU., (1) #8 CU. GROUND.
16. DISTRIBUTION TRANSFORMER: 150 KVA TP-1 ENERGY EFFICIENT XFMR. PRI: 480V DELTA, SEC: 120/208 WYE, 150°C RISE.
17. TRANSFORMER GROUND: PROVIDE #2/0 CU. GROUND TO BUILDING STEEL.
18. TRANSFORMER FEEDER: (3) #4/0 KCMIL (XHHW) CU., (1) #4 CU. GROUND, (IN 2 1/2" C. OUTSIDE OF NATIONAL ACCOUNTS VENDOR INTEGRATED POWER CENTER (IPC) ENCLOSURE).
19. 200A "LA" FEEDER: (4)#3/0 (XHHW) CU., (1) #6 CU. GROUND, (1) #6 ISOLATED GROUND, (IN 2 1/2" C. OUTSIDE OF NATIONAL ACCOUNTS VENDOR INTEGRATED POWER CENTER (IPC) ENCLOSURE).
20. 60A "LB" FEEDER: PROVIDE (4) #6 (XHHW) CU, (1) #8 CU GROUND, (1) #8 ISOLATED GROUND, (IN 1 1/2" CONDUIT OUTSIDE OF NATIONAL ACCOUNTS VENDOR INTEGRATED POWER CENTER (IPC) ENCLOSURE).
21. SERVICE ENTRANCE DISCONNECT: PROVIDE SERVICE ENTRANCE RATED 400A 3 PHASE - 480V WP DISCONNECT WITH 400A LPS OR LPJ FUSES.
22. INTERSYSTEM GROUND BAR: PROVIDE INTERSYSTEM GROUND BAR. PROVIDE #6 CU TO SERVICE GROUND PER NEC.
23. METER WIRING: SERVICE FEEDERS ROUTED THRU CT'S FOR SMARTCELL ENERGY MONITORING METER READINGS.
24. 400A ELECTRICAL SERVICE FEEDER WITH GROUND: TWO (2) SETS OF (4) #3/0 CU (THWN/THHN), ONE (1) #3 CU. GROUND, IN TWO (2) 3" C. EACH.
25. ISOLATED GROUND: TERMINATE ISOLATED GROUND CONDUCTORS AT TRANSFORMER GROUND TAP.
26. 125A "GA" FEEDER: (4) #1 (THWN/THHN) CU., (1) #6 CU. GROUND, (1) #6 ISOLATED GROUND, (IN 2" CONDUIT OUTSIDE OF NATIONAL ACCOUNTS VENDOR INTEGRATED POWER CENTER (IPC) ENCLOSURE).
27. 200A "FC" FEEDER: (4) #3/0 (THWN/THHN) CU., (1) #6 CU. GROUND, (1) #6 ISOLATED GROUND (IN 2 1/2" CONDUIT OUTSIDE OF NATIONAL ACCOUNTS VENDOR INTEGRATED POWER CENTER (IPC) ENCLOSURE).
28. EMS: EMS/MISC CONTROL EQUIPMENT FURNISHED, INSTALLED AND WIRED BY NATIONAL ACCOUNTS VENDOR INTERNAL TO INTEGRATED POWER CENTER (IPC). EQUIPMENT TO INCLUDE: E.M.S., LIGHTING CONTACTORS, CONTROL POWER TRANSFORMERS, RELAYS/BASES & COMPUTER SHELF. REFER TO ENERGY MANAGEMENT SYSTEM DRAWINGS EM1, EM2, & E2.1 FOR ADDITIONAL INFORMATION.
29. ACCESS BOX FOR FUTURE TEMPORARY GENERATOR: FOR TEMPORARY CONNECTION TO GENERATOR (CONNECTION NOT IN CONTRACT). BOTTOM OF BOX AT 48" AFF. SEE DETAIL 11/E3.0.
30. 350A "LDP" FEEDER: TWO (2) SETS OF (4)#2/0 (XHHW) CU., (1) #3 CU. GROUND, (1) #6 ISOLATED GROUND, (IN 2 1/2" C. OUTSIDE OF NATIONAL ACCOUNTS VENDOR INTEGRATED POWER CENTER (IPC) ENCLOSURE).
31. 175A "VA" FEEDER": (4) #2/0 (THWN/THHN) CU., (1) #6 CU. GROUND, (1) #6 ISOLATED GROUND (IN 2" CONDUIT OUTSIDE OF NATIONAL ACCOUNTS VENDOR INTEGRATED POWER CENTER (IPC) ENCLOSURE).

# GENERAL UTILITIES NOTES

A. TEMPORARY POWER TO BE SUPPLIED AND PAID FOR BY THIS CONTRACTOR.
B. THE CONTRACTOR IS TO PAY FOR ALL THE UTILITIES USED IN THEIR SCOPE OF WORK.
C. PROVIDE TEMPORARY 480V POWER FOR FLOOR POLISHER, AND IF REQUIRED 208V TO 480V STEP-UP TRANSFORMER.




1 / E0.1 ONE LINE DIAGRAM

SCALE: N.T.S.

TENANT: PETSMART

19601 North 27th Avenue
Phoenix, Arizona 85027 - (623) 580-6100

PROJECT:

18K 2025 U.S. VET SERVICES INSTRUCTION SET

**FEBRUARY 12, 2025**

ARCHITECT:

CONSULTANT:

SEAL:

CITY SEAL:


DISCLAIMER:

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**THIS DRAWING IS NOT TO BE SCALED.**


ISSUED FOR:

| # | DESCRIPTION | DATE |
|---|---|---|

PROJECT NO: 18K 2025 US INSTRUCTION SET

ORIGINAL SCALE: AS INDICATED

DRAWN BY: XXX

CHECKED BY: XXX

PAGE #: 01 OF: 56

IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE — 1"

DISCIPLINE: ELECTRICAL

TITLE: ELECTRICAL NOTES AND ONE-LINE DIAGRAM

SHEET NUMBER: **E0.1**