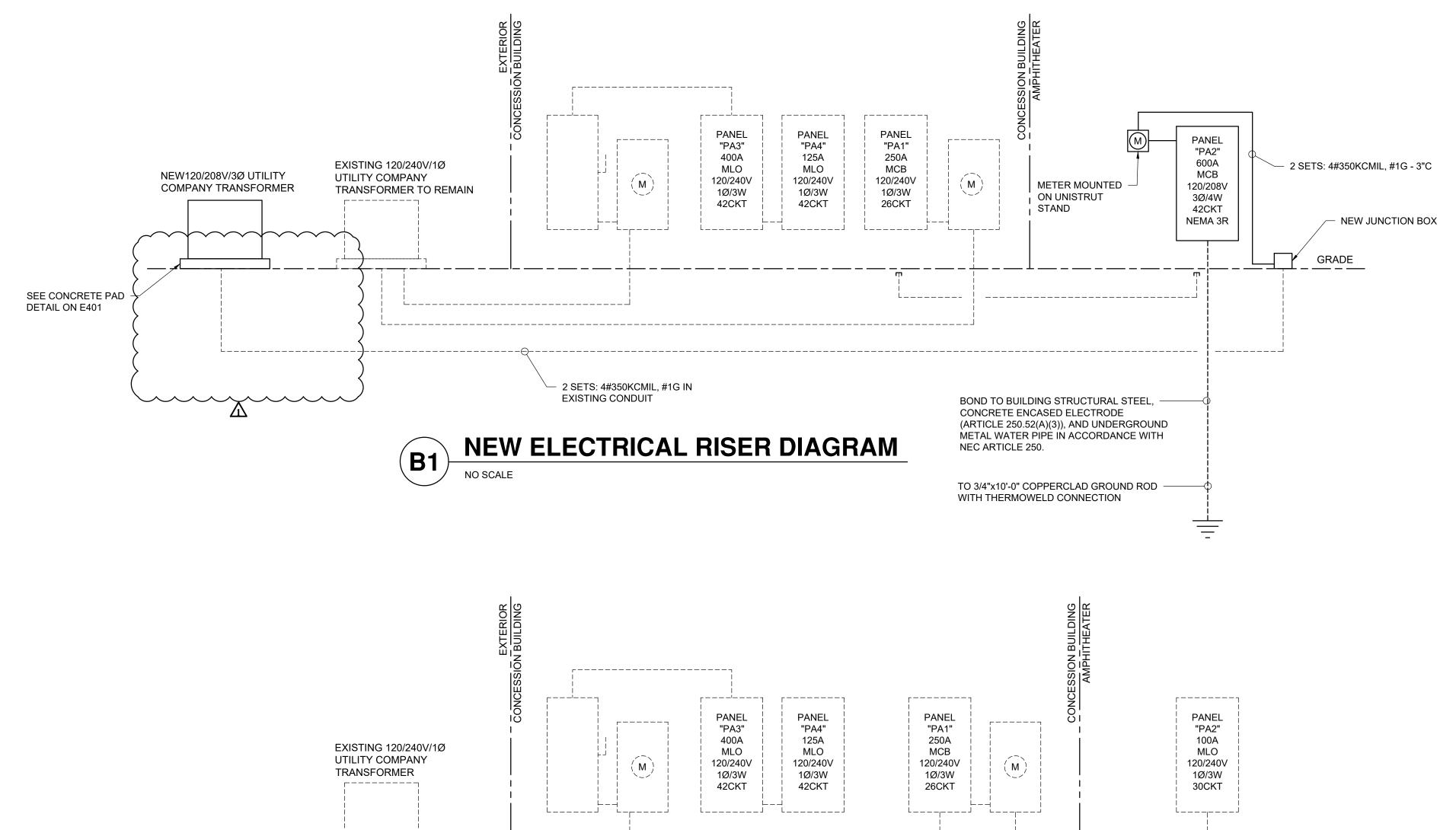
ELECTRICAL PANEL "PA2" SCHEDULE (NEW)* PANEL SIZE & TYPE: MAIN SIZE & TYPE: VOLTS/PHASE/WIRE: CABINET: MIN SCC: | FED FROM: NOTES: NEMA 3R; BOTTOM FEED; 120-208/3/4 600A 600A MCB SURFACE 22KAIC XFMR SERVICE/ENTRANCE/ RATED NO TRIP TRIP NO **AREA SERVED** A B C A | B | **AREA SERVED** 1 20 EXISTING 1920 1920 EXISTING 20 2 3 20 EXISTING 1920 EXISTING 1920 5 20 EXISTING 1920 EXISTING 20 6 1920 7 20 EXISTING EXISTING 20 8 9 20 EXISTING EXISTING 1920 1920 20 | 10 11 20 EXISTING 1920 EXISTING 20 12 13 20 EXISTING EXISTING 20 14 1920 1920 15 20 EXISTING EXISTING 20 | 16 1920 1920 17 20 EXISTING 1920 EXISTING 19 20 EXISTING 1920 EXISTING 20 20 1920 20 22 21 20 EXISTING 1920 1920 EXISTING 23 20 EXISTING 20 24 1920 1920 EXISTING 25 20 SPARE 26 19200 200 28 2496 CAM-LOCK BOX 19200 EXISTING 30 19200 2496 32 19200 TOUR BUS PEDESTAL 200 34 CAM-LOCK BOX 4160 19200 36 19200 TOUR BUS PEDESTAL 4160 20 38 39 20 SPARE Χ SPARE 20 40 41 20 SPARE X SPARE 20 42 TOTAL CONNECTED LOAD = 182912 TOTAL DEMAND = AMPS TOTAL DEMAND = 182912 * EXISTING BRANCH CIRCUITS SHALL BE RECONNECTED IN NEW PANEL TO THE SAME CIRCUIT NUMBER AS CURRENTLY INSTALLED. ALL BREAKERS ARE NEW. MAXIMUM LOADS PER BRANCH CIRCUIT ARE SHOWN FOR REFERENCE ONLY.



EXISTING ELECTRICAL RISER DIAGRAM

ELECTRICAL SPECIFICATIONS

WIRING METHODS

- 1. SECTION REQUIREMENTS 1.A. Summary: Building wires and cables and associated splices, connectors, and terminations for
- wiring systems rated 600 V and less, and twisted-pair cable; and raceways and boxes. 2. WIRES AND CABLES
- 2.A. Building Wires and Cables: Type THHN/XHHW copper conductor rated for operation at 90° C. 2.B. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated. Terminals to be rated for operation at 75°C.
- 2.C. Use of type MC Cable is permitted in accordance with NEC. RACEWAYS
- 3.A. Conduit: Comply with the following:
- 3.A.1. Rigid Steel Conduit: ANSI C80.1. 3.A.2. Intermediate Metal Conduit: ANSI C80.6.
- 3.A.3. Electrical Metallic Tubing: ANSI C80.3. 3.A.4. Rigid Nonmetallic Conduit: NEMA TC 2, Schedule 40.
- 3.B. Wireways: Hinged type, with manufacturer's standard finish.
- 3.C. Floor Boxes: Concrete, fully adjustable, rectangular. 3.D. Pull and Junction Boxes: Small sheet metal boxes.
- 4. INSTALLATION
- 4.A. Install wires and cables according to the NECA's "Standard of Installation." 4.B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.
- 4.C. Outdoors Wiring Methods: As follows:
- 4.C.1. Exposed: Rigid or intermediate metal conduit.
- 4.C.2. Concealed: Rigid or intermediate metal conduit.
- 4.C.3. Underground, Single Run: Rigid nonmetallic conduit. 4.C.4. Underground, Grouped: Rigid nonmetallic conduit.
- 4.D. Use Raceway fittings compatible with raceway and suitable for use and location. For
- intermediate steel conduit, use threaded rigid steel conduit fittings, unless otherwise indicated. 4.E. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and
- leave at least 1-inch concrete cover. 4.F. Install exposed raceways parallel to or at right angles to nearby surfaces or structural
- members, and follow the surface contours as much as practical. 4.G. Join raceways with fittings designed and approved for the purpose and make joints tight. Use
- bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
- 4.H. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb tensile strength. Leave not less than 12 inches of c
- slack at each end of the pull wire.
- 4.1. Stub-up Connections: Extend conductors to equipment with rigid steel conduit; flexible metal conduit may be used 6 inches above the floor.
- 4.J. Install a separate green ground conductor in all raceways.

WIRING DEVICES

- 1. SECTION REQUIREMENTS
- 1.A. Submit Product Data
- 2. DEVICES
- 2.A. General Purpose Wiring Devices: Comply with NEMA WD1.
- 2.B. Color: White.
- 2.C. Receptacles: UL 498, general-use grade except as indicated otherwise. 3. INSTALLATION
- 3.A. Install devices and assemblies plumb and secure.
- 3.B. Mount devices flush, with long dimension vertical, and grounding terminal of receptacles on
- 3.C. Protect devices and assemblies during painting.

PANELBOARDS

- 1. SECTION REQUIREMENTS
- 1.A. Submit Product Data.
- 2. PANELBOARDS AND LOAD CENTERS 2.A. Surface-mounted, NEMA PB , Type 3R.
- 2.A.1. Front: Secured to box (with concealed) trim clamps. 2.A.2. Bus: Hard drawn copper of 98 percent conductivity.
- 2.B. Molded-Case Circuit Breaker: NEMA AB 1; no tandem circuit breakers; single handle for multiple circuit breakers.
- 3. INSTALLATION
- 3.A. Install panelboards and accessory items according to NEMA PB 1.1. Indicate installed circuit loads on a typed circuit directory, after balancing panelboard loads, showing as-built
- 3.B. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties.









DESIGNED BY: DRAWN BY: **CHECKED BY:** DATE: JOB NUMBER

19-080

E301

PERMIT DOCUMENTS