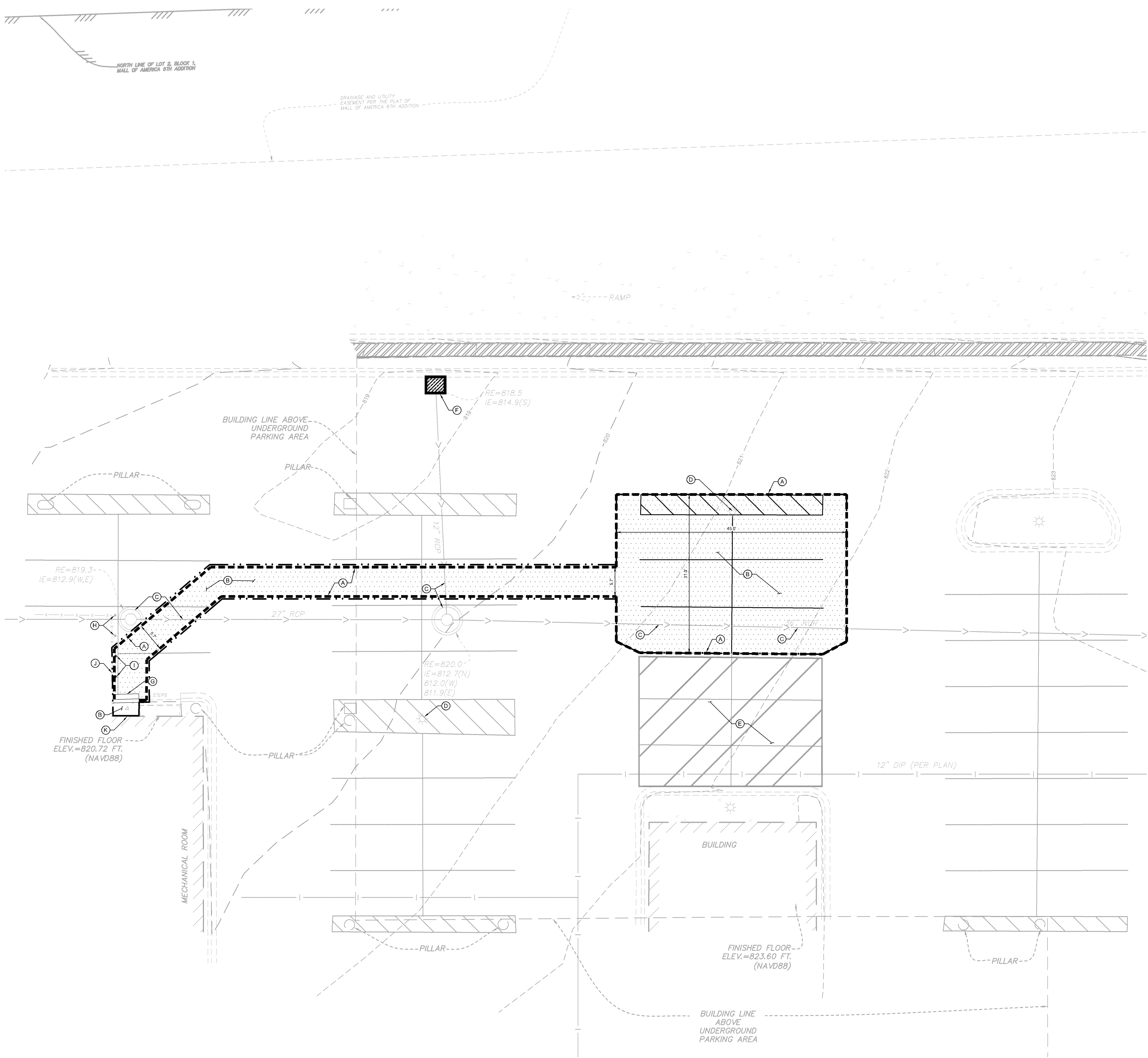


**8000 IKEA WAY  
BLOOMINGTON, HENNEPIN COUNTY, MN**

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kinley-Horn and Associates, Inc. shall be without liability to Kinley-Horn and Associates, Inc.



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DEMOLITION PLAN NOTES

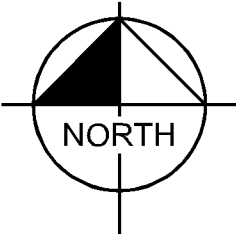
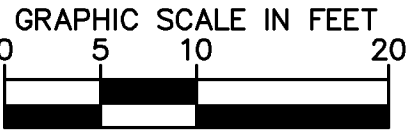
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS ON THE PLANS CAN BE CONSTRUCTED. FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE PROJECT DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN A LAWFUL MANNER AND IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS FOR DEMOLITION AND DISPOSAL FROM THE APPROPRIATE LOCAL AND STATE AGENCIES. CONTRACTOR SHALL PROVIDE COPIES OF THE PERMIT AND RECEIPTS OF DISPOSAL OF MATERIALS TO THE OWNER AND OWNERS REPRESENTATIVE, INCLUDING THE TYPE OF DEBRIS AND LOCATION WHERE IT WAS DISPOSED.
- THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ADJACENT PROPERTIES AT ALL TIMES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE CONSTRUCTION MANAGER AND COORDINATION WITH THE ADJACENT PROPERTIES AND/OR THE CITY.
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY COMPANIES TO PROVIDE LOCATIONS OF EXISTING UTILITIES WITHIN PROPOSED WORK AREA.
- EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE BASED ON AVAILABLE RECORD PLAN DATA AND/OR FIELD UTILITY MARKINGS AND ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION. ADDITIONAL UNMARKED OBSTACLES MAY EXIST ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED UNDERGROUND FEATURES. GIVE NOTICE TO AFFECTED UTILITY COMPANIES REGARDING REMOVAL OF SERVICE LINES AND CAP ANY ABANDONED LINES BEFORE PRECEDING WITH THE PROPOSED WORK.
- ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC, AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
- CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE CONSTRUCTION MANAGER. MAINTENANCE OF TRAFFIC CONTROL SHALL BE COORDINATED IN ACCORDANCE WITH THE CITY, COUNTY, AND STATE DOT AS NECESSARY.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION, AND SHALL NOTIFY ADJACENT PROPERTY OWNERS IF ACCESS WILL BE INTERRUPTED OR ALTERED AT ANY TIME DURING CONSTRUCTION.
- PRIOR TO THE START OF DEMOLITION, INSTALL EROSION CONTROL BMP'S IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLANS / SWPPP.
- CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT OR CURB, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
- THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE CITY WATER AND FIRE DEPARTMENTS TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE AND SURROUNDING PROPERTIES THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE CITY. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
- IN THE EVENT A WELL IS FOUND, THE CONTRACTOR SHALL CONTACT THE ENGINEER AND OWNER IMMEDIATELY. ALL WELLS SHALL BE SEALED BY A LICENSED WELL CONTRACTOR IN ACCORDANCE WITH STATE REQUIREMENTS.
- IN THE EVENT THAT UNKNOWN CONTAINERS OR TANKS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER AND/OR OWNERS REPRESENTATIVE IMMEDIATELY. ALL CONTAINERS SHALL BE DISPOSED OF AT A PERMITTED LANDFILL PER THE PROJECT DOCUMENTS.
- CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY EXISTING DRAIN TILE IS ENCOUNTERED ON SITE; ACTIVE DRAIN TILE SHALL NOT BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.
- IF CONTAMINATED MATERIAL IS ENCOUNTERED ON THE PROJECT SITE, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER AND ENGINEER IMMEDIATELY.

KEYNOTE LEGEND

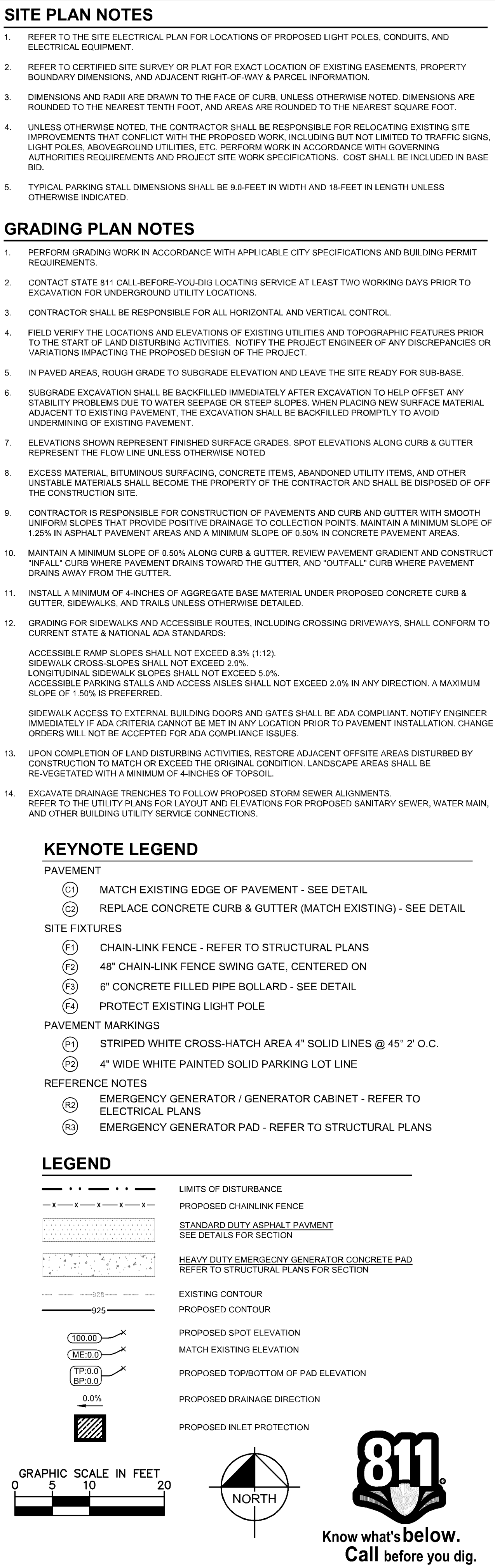
- |     |                                               |
|-----|-----------------------------------------------|
| (A) | FULL DEPTH SAWCUT EXISTING PAVEMENT           |
| (B) | REMOVE EXISTING PAVEMENT                      |
| (C) | PROTECT EXISTING STORM SEWER LINE / STRUCTURE |
| (D) | PROTECT EXISTING LIGHT POLE                   |
| (E) | CONTRACTOR LAYDOWN AREA                       |
| (F) | INLET PROTECTION - SEE DETAIL                 |
| (G) | REMOVE CURBS AND GUTTER                       |
| (H) | PROTECT EXISTING BOLLARD                      |
| (I) | REMOVE EXISTING BOLLARD                       |
| (J) | PROTECT EXISTING FENCE / CONCRETE PAD         |
| (K) | PROTECT BUILDING                              |

LEGEND

- |           |                                |
|-----------|--------------------------------|
| ---       | PROPERTY LINE                  |
| [Pattern] | REMOVE BITUMINOUS SURFACE      |
| ----      | FULL DEPTH SAWCUT              |
| - . - . - | LIMITS OF CONSTRUCTION         |
| [Pattern] | EXISTING CHAINLINK FENCE       |
| [Pattern] | EXISTING RETAINING WALL        |
| [Symbol]  | EXISTING SANITARY SEWER        |
| [Symbol]  | EXISTING STORM SEWER           |
| [Symbol]  | EXISTING WATERMAIN             |
| [Symbol]  | EXISTING GAS MAIN              |
| [Symbol]  | EXISTING UNDERGROUND TELEPHONE |
| [Symbol]  | EXISTING UNDERGROUND CABLE     |
| [Symbol]  | EXISTING CONTOUR               |
| [Symbol]  | EXISTING CURB & GUTTER         |
| [Symbol]  | EXISTING SIGN                  |
| [Symbol]  | EXISTING LIGHT POLE            |
| [Symbol]  | PROPOSED INLET PROTECTION      |



|                                                                |  |                                          |  |                                                                                                                                           |  |
|----------------------------------------------------------------|--|------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|--|
| FY24 GENERATOR REPLACEMENT<br>PREPARED FOR<br>IKEA MINNEAPOLIS |  | EXISTING CONDITIONS AND<br>REMOVALS PLAN |  | KIMLEY»Horn                                                                                                                               |  |
| BLOOMINGTON MN                                                 |  | SHEET NUMBER<br>C200                     |  | © 2024 KIMLEY-HORN AND ASSOCIATES, INC.<br>767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114<br>PHONE: 651-945-4197<br>WWW.KIMLEY-HORN.COM |  |
| DESIGNED BY<br>THOMAS J. KIMLEY                                |  | CHECKED BY<br>T.J.L.                     |  | DATE<br>06/12/2024                                                                                                                        |  |
| DRAWN BY<br>RWC                                                |  | SCALE<br>AS SHOWN                        |  | DATE<br>06/12/2024                                                                                                                        |  |
| PROJECT<br>93659017                                            |  | KHA PROJECT                              |  | LICENSING<br>IKEA MINNEAPOLIS                                                                                                             |  |
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| DRAWN BY<br>RWC                                                |  | DRAWN BY<br>RWC                          |  | DRAWN BY<br>RWC                                                                                                                           |  |
| CHECKED BY<br>T.J.L.                                           |  | CHECKED BY<br>T.J.L.                     |  | CHECKED BY<br>T.J.L.                                                                                                                      |  |
| DATE<br>06/12/2024                                             |  | DATE<br>06/12/2024                       |  | DATE<br>06/12/2024                                                                                                                        |  |
| PROJECT<br>93659017                                            |  | PROJECT<br>93659017                      |  | PROJECT<br>93659017                                                                                                                       |  |
| KHA PROJECT                                                    |  | KHA PROJECT                              |  | KHA PROJECT                                                                                                                               |  |
| LICENSING<br>IKEA MINNEAPOLIS                                  |  | LICENSING<br>IKEA MINNEAPOLIS            |  | LICENSING<br>IKEA MINNEAPOLIS                                                                                                             |  |
| DATE<br>06/12/2024                                             |  | DATE<br>06/12/2024                       |  | DATE<br>06/12/2024                                                                                                                        |  |
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| DRAWN BY<br>RWC                                                |  | DRAWN BY<br>RWC                          |  | DRAWN BY<br>RWC                                                                                                                           |  |
| CHECKED BY<br>T.J.L.                                           |  | CHECKED BY<br>T.J.L.                     |  | CHECKED BY<br>T.J.L.                                                                                                                      |  |
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| PROJECT<br>93659017                                            |  | PROJECT<br>93659017                      |  | PROJECT<br>93659017                                                                                                                       |  |
| KHA PROJECT                                                    |  | KHA PROJECT                              |  | KHA PROJECT                                                                                                                               |  |
| LICENSING<br>IKEA MINNEAPOLIS                                  |  | LICENSING<br>IKEA MINNEAPOLIS            |  | LICENSING<br>IKEA MINNEAPOLIS                                                                                                             |  |
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| KHA PROJECT                                                    |  | KHA PROJECT                              |  | KHA PROJECT                                                                                                                               |  |
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| CHECKED BY<br>T.J.L.                                           |  | CHECKED BY<br>T.J.L.                     |  | CHECKED BY<br>T.J.L.                                                                                                                      |  |
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| PROJECT<br>93659017                                            |  | PROJECT<br>93659017                      |  | PROJECT<br>93659017                                                                                                                       |  |
| KHA PROJECT                                                    |  | KHA PROJECT                              |  | KHA PROJECT                                                                                                                               |  |
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| KHA PROJECT                                                    |  | KHA PROJECT                              |  | KHA PROJECT                                                                                                                               |  |
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| DRAWN BY<br>RWC                                                |  | DRAWN BY<br>RWC                          |  |                                                                                                                                           |  |



|                               |           |                |    |                                                                                                                                                                                                                                 |  |
|-------------------------------|-----------|----------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| FY24 GENERATOR<br>REPLACEMENT |           |                |    |                                                                                                                                                                                                                                 |  |
| PREPARED FOR                  |           |                |    |                                                                                                                                                                                                                                 |  |
| IKEA MINNEAPOLIS              |           |                |    |                                                                                                                                                                                                                                 |  |
| BLOOMINGTON MN                |           |                |    |                                                                                                                                                                                                                                 |  |
| SHEET NUMBER                  |           |                |    |                                                                                                                                                                                                                                 |  |
| C400                          |           |                |    |                                                                                                                                                                                                                                 |  |
| KHA PROJECT<br>93659017       |           | SCALE AS SHOWN |    | I HEREBY CERTIFY THAT THIS PLAN,<br>SPECIFICATION OR REPORT WAS PREPARED BY<br>ME OR UNDER MY CLOSE PERSONAL SUPERVISION<br>AND THAT I AM A DULY LICENSED PROFESSIONAL<br>ENGINEER UNDER THE LAWS OF THE STATE OF<br>MINNESOTA. |  |
| DATE<br>06/12/2024            |           |                |    | DESIGNED BY<br>RWC                                                                                                                                                                                                              |  |
|                               |           |                |    | DRAWN BY<br>RWC                                                                                                                                                                                                                 |  |
|                               |           |                |    | CHECKED BY<br>TJL                                                                                                                                                                                                               |  |
|                               |           |                |    | DATE<br>06/12/2024                                                                                                                                                                                                              |  |
|                               |           |                |    | LIC. NO.<br>2-1433                                                                                                                                                                                                              |  |
|                               |           |                |    | THOMAS J. LUND<br>02-2480-054                                                                                                                                                                                                   |  |
|                               |           |                |    | © 2024 KIMLEY-HORN AND ASSOCIATES, INC.<br>767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114<br>PHONE: 651-845-4197<br>WWW.KIMLEY-HORN.COM                                                                                       |  |
|                               |           |                |    | Kimley»Horn                                                                                                                                                                                                                     |  |
| No.                           | REVISIONS | DATE           | BY |                                                                                                                                                                                                                                 |  |



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# ELECTRICAL SYMBOLS

| POWER  |                                                                                                                                                                               |        |                                                                                                                     | GROUNDING |                                                                                           | ONE-LINE SYMBOLS |                                                 |     |                                                                              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------|------------------|-------------------------------------------------|-----|------------------------------------------------------------------------------|
| SYMBOL | DESCRIPTION                                                                                                                                                                   | SYMBOL | DESCRIPTION                                                                                                         | SYMBOL    | DESCRIPTION                                                                               | SYM              | DESCR.                                          | SYM | DESCR.                                                                       |
|        | CONNECTION POINT TO EQUIPMENT SPECIFIED, SUPPLIED AND INSTALLED UNDER OTHER DIVISIONS. RACEWAY, CONDUCTORS AND CONNECTIONS UNDER THIS DIVISION.                               |        | 3#10 AWG CONDUCTORS<br>(1 NEUTRAL, 1 HOT, 1 GROUND)                                                                 |           | INDICATING LIGHT, WALL MTD, LETTER INDICATES COLOR. (A=AMBER, G=GREEN, R=RED)             |                  | SERVICE ENTRANCE SECTION (SES)                  |     | CIRCUIT BREAKER, 3 POLE 100A                                                 |
|        | EQUIPMENT TAG NUMBER. SEE NOTE B.                                                                                                                                             |        | SWITCHED CONDUCTOR                                                                                                  |           | INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR. (A=AMBER, G=GREEN, R=RED)         |                  | PANELBOARD                                      |     | CIRCUIT BREAKER                                                              |
|        | CIRCUIT SCHEDULE TAG NUMBER SEE ELECTRICAL CIRCUIT LEGEND OR CIRCUIT RACEWAY SCHEDULE                                                                                         |        | CONDUIT UP & DOWN                                                                                                   |           | INDICATING LIGHT, PANEL MTD, LETTER INDICATES COLOR. (A=AMBER, G=GREEN, R=RED)            |                  | PUSH BUTTON NO                                  |     | MOTOR WITH DISCONNECT                                                        |
|        | POWER CONDUIT CALL-OUT. (X=2,3,4,...) WHEN TWO OR MORE CONDUITS HAVE THE SAME NUMBER.                                                                                         |        | CONDUIT DOWN, UP AND STUBBED & CAPPED                                                                               |           | GROUND TEST WELL                                                                          |                  | PUSH BUTTON NC                                  |     | NEW MOTOR (ESTIMATED HP SHOWN)                                               |
|        | MAJOR ELECTRICAL EQUIPMENT OR DEVICE, I.E., MOTOR CONTROL CENTER, SWITCHBOARD, ETC.                                                                                           |        | C = CONTROL SYSTEM CONDUIT                                                                                          |           | 1#12 GROUND                                                                               |                  | PUSH BUTTON NC LOCKOUT                          |     | EXISTING MOTOR (ESTIMATED HP SHOWN)                                          |
|        | PANELBOARD - SURFACE OR FLUSH MOUNTED AS INDICATED.                                                                                                                           |        | CLK = CLOCK CONDUIT                                                                                                 |           | 1#12 GROUND, ISOLATED                                                                     |                  | PUSH BUTTON NC LOCKOUT                          |     | PILOT LIGHT, Y=YELLOW, R=RED, A=AMBER, B=BLUE, W=WHITE, G=GREEN. SEE NOTE 3. |
|        | TERMINAL JUNCTION BOX (TJB). SURFACE OR FLUSH MOUNTED AS INDICATED. SEE NOTE D.                                                                                               |        | EM = EMERGENCY POWER SYSTEM WIRING CONDUIT                                                                          |           | 3 POSITION SELECTOR SWITCH, MAINTAINED CONTACTS<br>X = CLOSED CONTACT<br>O = OPEN CONTACT |                  | EMERGENCY STOP PUSH BUTTON (MAINTAINED CONTACT) |     | BELL                                                                         |
|        | MOTOR CONNECTION. FOR HORSEPOWER, REFER TO ONE-LINE DIAGRAM OR EQUIPMENT SCHEDULE.                                                                                            |        | FO = FIBER OPTIC                                                                                                    |           | SELECTOR SWITCH, MAINTAINED CONTACTS<br>X=CLOSED CONTACT<br>O=OPEN CONTACT                |                  | STOP PUSH BUTTON START/STOP                     |     | HORN OR SIREN                                                                |
|        | EMERGENCY/STANDBY ENGINE GENERATOR. RATING AS INDICATED ON ONE-LINE DIAGRAM.                                                                                                  |        | P = PRIMARY VOLTAGE DISTR SYS DUCT BANK                                                                             |           | NORMALLY OPEN I/O CONTACT WITH ADDRESS                                                    |                  |                                                 |     |                                                                              |
|        | CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE DUPLEX WITH TELEPHONE OR DATA AS INDICATED. SEE NOTE D.                                                                  |        | T = TELECOM DISTRIBUTION SYSTEM DUCT BANK                                                                           |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | CONVENIENCE RECEPTACLE-SINGLE, DUPLEX, 4-PLEX, WP=WEATHER PROOF, GFCI=GROUND FAULT CIRCUIT INTERRUPTER, IG=ISOLATED GROUND. SEE NOTE D. * INDICATES RECEPTACLE ABOVE COUNTER. |        | LV = LOW VOLTAGE PWR & CNTRL SYSTEMS DUCT BANK                                                                      |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | RECEPTACLE, SPECIAL PURPOSE-NEMA CONFIGURATION AND AMPERAGE AS INDICATED. SEE NOTE D.                                                                                         |        | DENOTES CIRCUIT WHICH IS ROUTED IN EMBEDDED OR PARTIALLY EMBEDDED CONDUIT INSTALLED BY OTHERS                       |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | DUPLEX CONVENIENCE RECEPTACLE-FLUSH MOUNTED IN FLOOR.                                                                                                                         |        | EXOTHERMIC WELD                                                                                                     |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | DUPLEX RECEPTACLE W/ DATA AND TELEPHONE CONNECTIONS                                                                                                                           |        | EMH WITH TAPS                                                                                                       |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | WALL CLOCK WITH CLOCK HANGER OUTLET                                                                                                                                           |        | ELECTRICAL MANHOLE                                                                                                  |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | JUNCTION BOX, CONCEALED ABOVE CEILING UNLESS NOTED OTHERWISE. SUBSCRIPTS DENOTE:<br>1 = WALL, 2 = FLOOR. SEE NOTE C.                                                          |        | KIRK KEYED INTERLOCK SWITCH                                                                                         |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | WALL SWITCH, SUBSCRIPT INDICATES TYPE (X):<br>2 = DOUBLE POLE<br>3 = THREE WAY<br>4 = FOUR WAY<br>D = DIMMER<br>T = THERMAL SWITCH<br>M = MANUAL MOTOR STARTER SWITCH         |        | CONTROL RELAY OR MOTOR CONTACTOR COIL                                                                               |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | NON-FUSED DISCONNECT SWITCH. AMPERAGE INDICATED. SEE NOTE D.                                                                                                                  |        | NO CONNECTION                                                                                                       |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | FUSED DISCONNECT SWITCH (40/60, 40=FUSE AMPERAGE, 60=SWITCH AMPERAGE). SEE NOTE D.                                                                                            |        | CONNECTION AS INDICATED                                                                                             |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | ENCLOSED CIRCUIT BREAKER WITH SHORT CIRCUIT AND OVERCURRENT PROTECTION. SEE SPECIFICATION FOR TYPE OF TRIP. (175/225, 175=TRIP AMPERAGE, 225=FRAME AMPERAGE). SEE NOTE D.     |        | MEDIUM VOLTAGE CABLE TERMINATION                                                                                    |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | ENCLOSED CONTACTOR, MAGNETIC, AMPERAGE INDICATED. SEE NOTES D AND E.                                                                                                          |        | MEDIUM VOLTAGE PLUG TERMINATION, WHERE "X" = PLUGS PER PHASE.                                                       |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | ENCLOSED STARTER, MAGNETIC. *1 = SIZE 1, RV = REDUCED VOLTAGE, 2S = 2 SPEED, R = REVERSING.                                                                                   |        | MAGNETIC STARTER, NEMA SIZE INDICATED, WITH OVERLOADS.                                                              |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | ENCLOSED STARTER, COMBINATION MAGNETIC, NEMA SIZE INDICATED. SEE NOTES D AND E.                                                                                               |        | CIRCUIT BREAKER, MAGNETIC TRIP ONLY (MOTOR CIRCUIT PROTECTOR). FRAME SIZE SHOWN, 3 POLE UNLESS INDICATED OTHERWISE. |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | CONTROL STATION. SEE NOTES D & E.                                                                                                                                             |        | FUSED SWITCH, SWITCH CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.                                   |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | MULTI-DUPLEX OUTLET ASSEMBLY                                                                                                                                                  |        | SWITCH CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.                                                 |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | CABLE TRAY, WIDTH AS INDICATED                                                                                                                                                |        | CIRCUIT BREAKER, RATING INDICATED, SOLID STATE TRIP, DRAW-OUT TYPE                                                  |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | INDICATES CHANGE IN ELEVATION USING VERTICAL ADJUSTABLE SIDE PLATES OF CABLE TRAY.                                                                                            |        | CIRCUIT BREAKER MEDIUM VOLTAGE, RATING INDICATED, DRAW-OUT TYPE                                                     |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | OVERHEAD CONDUIT ZONE                                                                                                                                                         |        | SURGE ARRESTOR                                                                                                      |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | UNDERSLAB OR BELOW GRADE CONDUIT DUCT BANK                                                                                                                                    |        | CAPACITOR-KVA INDICATED, 3 PHASE UNLESS INDICATED OTHERWISE.                                                        |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | UNDERSLAB OR BELOW GRADE CONDUIT DUCT BANK                                                                                                                                    |        | METER WITH SWITCH (V=VOLTMETER, A=AMMETER) SWITCH AND SCALE RANGE AS INDICATED.                                     |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | BUSWAY, RATINGS PER SPECIFICATIONS AND/OR ONE-LINE DIAGRAM                                                                                                                    |        | MOTORIZED BELL SWITCH                                                                                               |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | WIREWAY, SIZE AS INDICATED                                                                                                                                                    |        | TRANSFORMER                                                                                                         |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | BUSWAY-FEEDER OR PLUG-IN DISCONNECT(S) AS INDICATED ON ONE-LINE DIAGRAMS. PLUG-IN DEVICE TYPE AND RATING AS INDICATED.                                                        |        | MEDIUM VOLTAGE SWITCH OPERATOR WITH SOURCE TRANSFER CONTROL RATING AS INDICATED.                                    |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | BRANCH CIRCUIT(S) HOMERUN TO PANELBOARD.                                                                                                                                      |        | 600V AUTOMATIC TRANSFER SWITCH CURRENT RATING AS INDICATED.                                                         |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | THREE PHASE CIRCUIT WITH GROUND.                                                                                                                                              |        | INSTRUMENTATION VOLTAGE TRANSFORMER.                                                                                |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | CONDUIT AND CONDUCTORS CONCEALED IN FINISHED SPACES AND EXPOSED ELSEWHERE UNLESS INDICATED OTHERWISE, SITE CONDUITS                                                           |        | CURRENT TRANSFORMER. RATIO AND QUANTITY INDICATED.                                                                  |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | UNDERSLAB CONDUIT AND CONDUCTORS BELOW GRADE OR SLAB.                                                                                                                         |        | GROUND SENSOR CURRENT TRANSFORMER. RATIO & QUANTITY INDICATED.                                                      |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | 1#12 AWG HOT                                                                                                                                                                  |        | CURRENT SENSOR                                                                                                      |           |                                                                                           |                  |                                                 |     |                                                                              |
|        | 1#12 AWG NEUTRAL                                                                                                                                                              |        | POWER MONITOR                                                                                                       |           |                                                                                           |                  |                                                 |     |                                                                              |
|        |                                                                                                                                                                               |        | RESISTOR AND SPACE HEATER                                                                                           |           |                                                                                           |                  |                                                 |     |                                                                              |

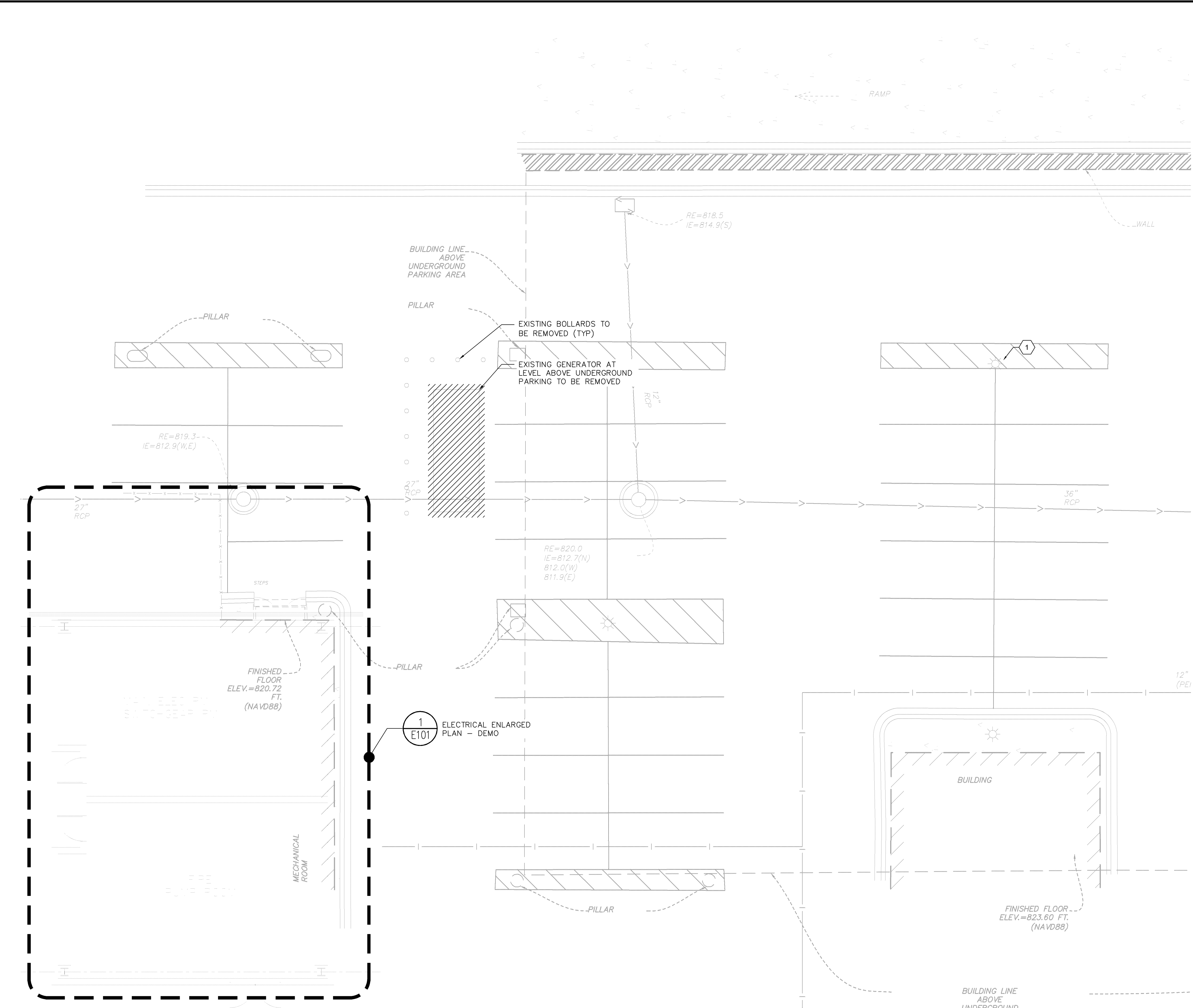
| SYMBOL | DESCRIPTION             | SYMBOL | DESCRIPTION           |
|--------|-------------------------|--------|-----------------------|
|        | G = GROUNDING CONDUCTOR |        | GROUND ROD (ONE-LINE) |
|        | GROUNDING BUS           |        | EMBEDDED GROUND PAD   |
|        | GROUND TEST WELL        |        | 1#12 GROUND           |
|        | 1#12 GROUND, ISOLATED   |        | GROUND BOX            |

| SYM | DESCR.                                          | SYM | DESCR.                  |
|-----|-------------------------------------------------|-----|-------------------------|
|     | PANELBOARD                                      |     | PUSH BUTTON NO          |
|     | PUSH BUTTON NO                                  |     | PUSH BUTTON NC          |
|     | PUSH BUTTON NC LOCKOUT                          |     | PUSH BUTTON NC LOCKOUT  |
|     | EMERGENCY STOP PUSH BUTTON (MAINTAINED CONTACT) |     | TRANSFORMER             |
|     | UTILITY METER                                   |     | GROUND FAULT PROTECTION |
|     | POTENTIAL TRANSFORMER                           |     | POWER TRANSFORMER       |
|     | CURRENT TRANSFORMER                             |     | CONTROL TRANSFORMER     |

| ELECTRICAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GENERAL NOTES:</b><br>A. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PROJECT DRAWINGS.<br>B. MOUNTING PER SPECIFICATIONS UNLESS NOTED OTHERWISE. REFER TO PLAN DRAWINGS AND SECTIONS FOR MOUNTING HEIGHTS.<br>C. NEMA 1 UNLESS INDICATED OTHERWISE: 3R=NEMA 3R, X=EXPLOSION PROOF 4X=NEMA 4X, WP=WEATHERPROOF.<br>D. SEE CONTROL DIAGRAMS FOR OPERATIONAL SCHEMATIC.<br>E. PROVIDE HOUSEKEEPING PAD AS REQUIRED PER SPECIFICATIONS. COORDINATE EXACT DIMENSIONS WITH MANUFACTURER'S SUBMITTALS.<br>F. CONDUIT ZONE ELEVATIONS ARE ABOVE FINISHED FLOOR, UON. | <b>SPECIAL NOTES:</b><br>1. INTEGRATED EQUIPMENT RATING (IER) REFERS TO THE SHORT CIRCUIT RATING OF THE ELECTRICAL COMPONENT THAT HAS THE LOWEST SHORT CIRCUIT RATING. |

| GENERAL SYMBOLS |                                                |  |                                                                                |
|-----------------|------------------------------------------------|--|--------------------------------------------------------------------------------|
|                 | POINT OF CONNECTION                            |  | SECTION CUT                                                                    |
|                 | POINT OF DISCONNECTION                         |  | ELEVATION VIEW                                                                 |
|                 | REVISION NUMBER                                |  | DETAIL CALLOUT                                                                 |
|                 | EQUIPMENT MARK                                 |  | CALLOUT                                                                        |
|                 | KEYNOTE NOTE                                   |  | LIGHTING FIXTURE TYPE A, 100 WATTS, WITH 1 LAMP. SEE LIGHTING FIXTURE SCHEDULE |
|                 | EQUIPMENT, PIPE OR MATERIAL TAG                |  | MATCH LINE                                                                     |
|                 | CONDUIT CONTINUATION (ONE-LINE & DOUBLE LINES) |  | REFER TO SHEET XX-###                                                          |

|                                                                                              |  |      |  |                                    |  |             |  |                                                                                                                                  |  |     |  |           |  |      |  |    |  |  |  |
|----------------------------------------------------------------------------------------------|--|------|--|------------------------------------|--|-------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|-----|--|-----------|--|------|--|----|--|--|--|
| FY24 GENERATOR<br>REPLACEMENT<br><br>PREPARED FOR<br><br>IKEA MINNEAPOLIS<br><br>BLOOMINGTON |  | MINN |  | ELECTRICAL<br>SYMBOLS AND<br>NOTES |  | KIMLEY HORN |  | KIMLEY HORN & ASSOCIATES, INC.<br>767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114<br>PHONE: 651-445-4197<br>WWW.KIMLEY-HORN.COM |  | No. |  | Revisions |  | Date |  | By |  |  |  |
| SHEET NUMBER<br>E000                                                                         |  |      |  |                                    |  |             |  |                                                                                                                                  |  |     |  |           |  |      |  |    |  |  |  |



1 ELECTRICAL SITE PLAN – DEMO  
SCALE: 1/8"=1'-0"

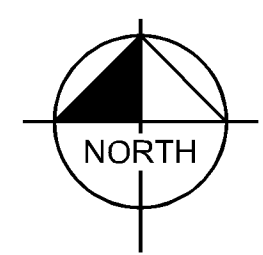
GENERAL NOTES:

- GRAY LINES INDICATE EXISTING TO REMAIN. BOLD LINES INDICATE NEW WORK.
- EXISTING BUILDING GROUNDING SYSTEM TO REMAIN. CONTRACTOR SHALL CONFIRM COMPLIANCE WITH NEC 250 AND MAKE UPGRADES AS REQUIRED.
- REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
- EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS
- EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION.
- PROTECT ALL CIRCUITS AND WIRING THAT ARE TO REMAIN.

KEY NOTES:

- CONFIRM ROUTE OF LIGHTING CONDUITS. COORDINATE RELOCATION ROUTE WITH NEW GENERATOR PAD AS NEEDED.

|                                                                |  |                                  |  |                                                                                                                                |  |                                                                                                                                                                                                                                                                            |  |                                                                                                                                                          |  |                       |  |    |  |
|----------------------------------------------------------------|--|----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|----|--|
| FY24 GENERATOR REPLACEMENT<br>PREPARED FOR<br>IKEA MINNEAPOLIS |  | EXISTING ELECTRICAL<br>SITE PLAN |  | KHA PROJECT<br>93659017<br>DATE<br>06/12/2024<br>SCALE<br>AS SHOWN<br>DESIGNED BY<br>AB<br>DRAWN BY<br>AB<br>CHECKED BY<br>JDC |  | Licensure Certificate No. 02400054<br>I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of Minnesota.<br>Date: 06/12/2024<br>Signature: [Signature]<br>JDC |  | Kimley»Horn<br>© 2024 KIMLEY-HORN AND ASSOCIATES, INC.<br>767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114<br>PHONE: 651-445-4197<br>WWW.KIMLEY-HORN.COM |  | REVISIONS<br>No. DATE |  | BY |  |
|----------------------------------------------------------------|--|----------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|----|--|



1. GRAY LINES INDICATE EXISTING TO REMAIN. BOLD LINES INDICATE NEW WORK.
2. EXISTING BUILDING GROUNDING SYSTEM TO REMAIN. CONTRACTOR SHALL CONFIRM COMPLIANCE WITH NEC 250 AND MAKE UPGRADES AS REQUIRED.
3. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
4. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS
5. EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION.
6. PROTECT ALL CIRCUITS AND WIRING THAT ARE TO REMAIN.

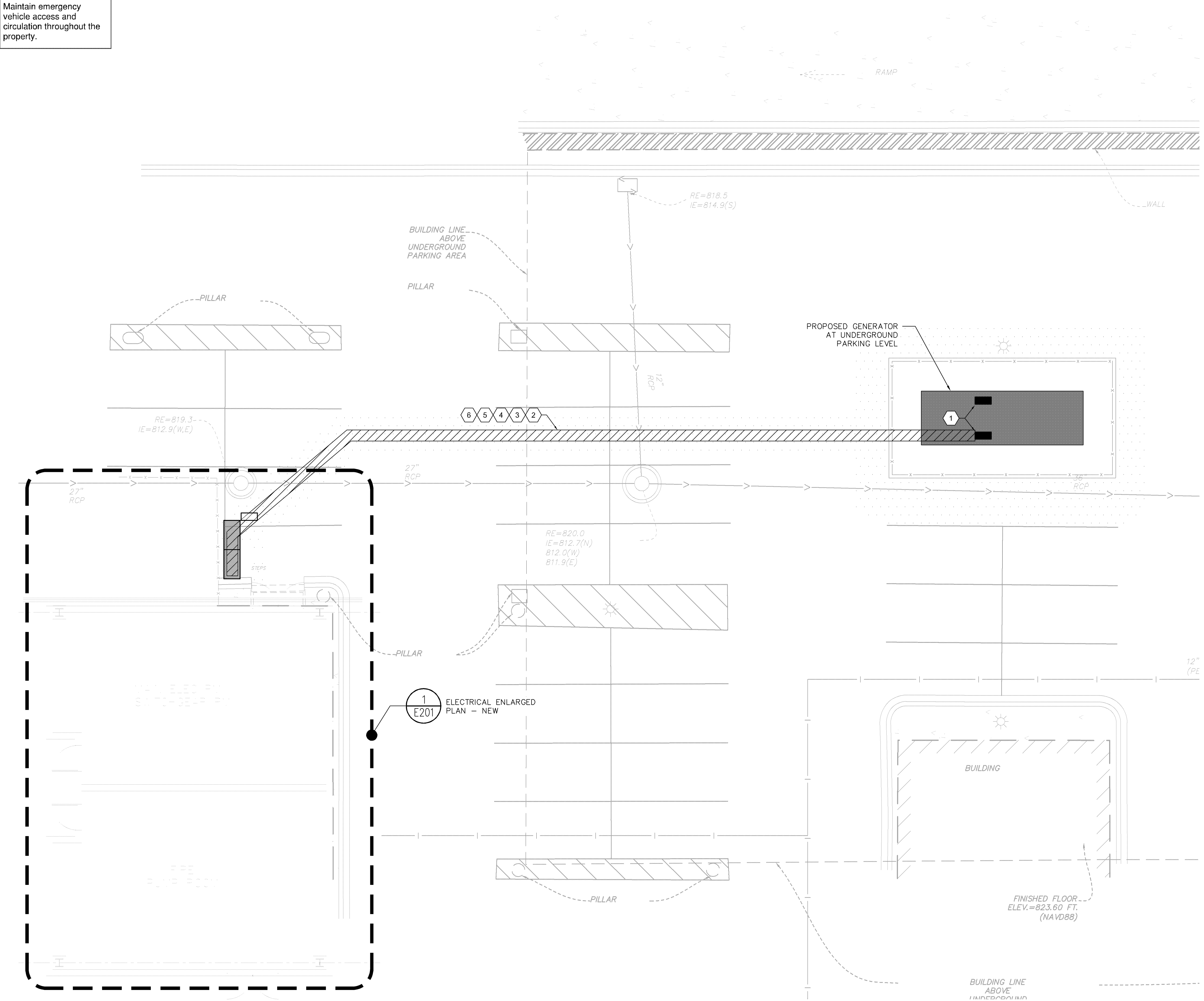
- 1 DEMOLISH AUTOMATIC TRANSFER SWITCH. DEMOLISH GENERATOR SIDE CONDUCTORS TO SOURCE.
- 2 EXISTING AUTOMATIC TRANSFER SWITCHES ARE BUILT INTO SWITCHBOARD. REMOVE ALL CONTROLS AND POWER WIRING. REMOVE FRONT COVER PLATE AND REPLACE WITH BLANK COVER. EMPTY SECTION TO BE USED FOR NEW PULL SECTION AFTER REPLACEMENT ATS IS INSTALLED.
- 3 SOLAR EQUIPMENT TO BE REPLACED BY OTHERS.

[illegible]

K:\TWC\_LDEV\IKEASTO212 - Emergency Generator Replacement -Bloomington, MN\3 Design\CAD\PlanSheets\E2-PROPOSED SITE PLAN.dwg June 12, 2024 - 7:48am

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Maintain emergency vehicle access and circulation throughout the property.



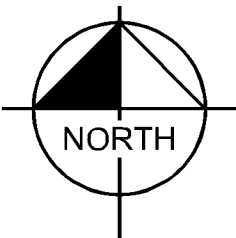
### GENERAL NOTES:

- GRAY LINES INDICATE EXISTING TO REMAIN. BOLD LINES INDICATE NEW WORK.
- EXISTING BUILDING GROUNDING SYSTEM TO REMAIN. CONTRACTOR SHALL CONFIRM COMPLIANCE WITH NEC 250 AND MAKE UPGRADES AS REQUIRED.
- REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
- EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS
- EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION.
- PROTECT ALL CIRCUITS AND WIRING THAT ARE TO REMAIN.

### KEY NOTES:

- ELECTRICAL CONDUIT STUB LOCATIONS.
- PROVIDE (1) 1" C FOR GENERATOR BLOCK HEATER AND BATTERY CHARGER. USE EXISTING CIRCUITS WHERE POSSIBLE.
- PROVIDE (1) 2" C FOR REMOTE ANNUNCIATOR PANELS AND AUXILLARY STARTER.
- PROVIDE 4 SETS OF 4#600 KCM CU, 1#4/0 GND, 3-1/2" C.
- PROVIDE 3 SETS OF 4#300 KCM CU, 1#1/0 CU GND, 3" C.
- PROVIDE 2 SETS OF 4#3/0 KCM CU, 1#2 CU GND, 2" C.

1 ELECTRICAL SITE PLAN - NEW  
SCALE: 1/8"=1'-0"



|                                                                                                                                                                                                                                                                                                          |  |                |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|--|
| FY24 GENERATOR REPLACEMENT PREPARED FOR IKEA MINNEAPOLIS                                                                                                                                                                                                                                                 |  | BLOOMINGTON MN |  |
| SHEET NUMBER E200                                                                                                                                                                                                                                                                                        |  | DATE           |  |
| PROPOSED SITE PLAN                                                                                                                                                                                                                                                                                       |  | REVISIONS      |  |
| KHA PROJECT 93659017                                                                                                                                                                                                                                                                                     |  | BY             |  |
| DATE 06/12/2024                                                                                                                                                                                                                                                                                          |  | DATE           |  |
| SCALE AS SHOWN                                                                                                                                                                                                                                                                                           |  | REVISIONS      |  |
| DESIGNED BY AB                                                                                                                                                                                                                                                                                           |  | No.            |  |
| DRAWN BY AB                                                                                                                                                                                                                                                                                              |  | DATE           |  |
| CHECKED BY JDC                                                                                                                                                                                                                                                                                           |  | REVISIONS      |  |
| LICENSING CERTIFICATION: I AM A PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. |  | REVISIONS      |  |
| JERRY D. JONES                                                                                                                                                                                                                                                                                           |  | REVISIONS      |  |
| 06/12/2024                                                                                                                                                                                                                                                                                               |  | REVISIONS      |  |
| 46246                                                                                                                                                                                                                                                                                                    |  | REVISIONS      |  |
| © 2024 KIMLEY-HORN AND ASSOCIATES, INC. 767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114 PHONE: 651-445-4197 WWW.KIMLEY-HORN.COM                                                                                                                                                                         |  | REVISIONS      |  |
| Kimley»Horn                                                                                                                                                                                                                                                                                              |  | REVISIONS      |  |



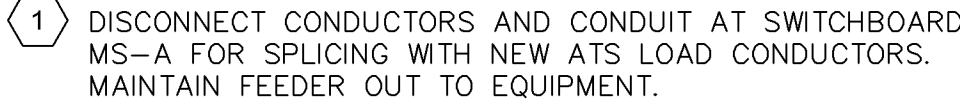
1. GRAY LINES INDICATE EXISTING TO REMAIN. BOLD LINES INDICATE NEW WORK.
2. EXISTING BUILDING GROUNDING SYSTEM TO REMAIN. CONTRACTOR SHALL CONFIRM COMPLIANCE WITH NEC 250 AND MAKE UPGRADES AS REQUIRED.
3. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
4. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS
5. EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION.
6. PROTECT ALL CIRCUITS AND WIRING THAT ARE TO REMAIN.

KEY NOTES:

- ① USE ABANDONED ATS SECTION AS NEW PULL SECTION.
- ② SOLAR EQUIPMENT TO BE RELOCATED BY OTHERS.
- ③ PROVIDE CABLE TRANSMISSION CABINET AS JUNCTION BOX. PROVIDE UNISTRUT TO CEILING FOR NEW CONDUITS.
- ④ PROVIDE UNISTRUT FOR GCC.
- ⑤ PROVIDE PROTECTION VIA BOLLARDS.

|                                                                   |  |                   |  |                                                                                                                                                                                                                                 |  |
|-------------------------------------------------------------------|--|-------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| FY24 GENERATOR<br>REPLACEMENT<br>PREPARED FOR<br>IKEA MINNEAPOLIS |  | BLOOMINGTON       |  | MINN                                                                                                                                                                                                                            |  |
| SHEET NUMBER<br>E201                                              |  |                   |  |                                                                                                                                                                                                                                 |  |
| PROPOSED SITE<br>PLAN                                             |  |                   |  |                                                                                                                                                                                                                                 |  |
| KHA PROJECT<br>93659017                                           |  | SCALE AS SHOWN    |  | I HEREBY CERTIFY THAT THIS PLAN,<br>SPECIFICATION OR REPORT WAS PREPARED BY<br>ME OR UNDER MY CLOSE PERSONAL SUPERVISION<br>AND THAT I AM A DULY LICENSED PROFESSIONAL<br>ENGINEER UNDER THE LAWS OF THE STATE OF<br>MINNESOTA. |  |
| DATE<br>06/12/2024                                                |  | DESIGNED BY<br>AB |  | DATE<br>06/12/2024                                                                                                                                                                                                              |  |
|                                                                   |  | DRAWN BY<br>AB    |  | DATE<br>06/12/2024                                                                                                                                                                                                              |  |
|                                                                   |  | CHECKED BY<br>JDC |  | DATE<br>06/12/2024                                                                                                                                                                                                              |  |
|                                                                   |  |                   |  | LIC. NO.<br>46246                                                                                                                                                                                                               |  |
|                                                                   |  |                   |  | JERRY M. HORN<br>JERRY HORN                                                                                                                                                                                                     |  |
|                                                                   |  |                   |  | © 2024 KIMLEY-HORN AND ASSOCIATES, INC.<br>767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114<br>PHONE: 651-454-1197<br>WWW.KIMLEY-HORN.COM                                                                                       |  |
|                                                                   |  |                   |  | Kimley»Horn                                                                                                                                                                                                                     |  |
|                                                                   |  |                   |  | No.                                                                                                                                                                                                                             |  |
|                                                                   |  |                   |  | REVISIONS                                                                                                                                                                                                                       |  |
|                                                                   |  |                   |  | DATE                                                                                                                                                                                                                            |  |
|                                                                   |  |                   |  | BY                                                                                                                                                                                                                              |  |

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1 ONE-LINE DIAGRAM MS-A – EXISTING/DEMO  
SCALE: N.T.S

|                                                                                  |  |                      |  |                                 |  |                                                                                                                                                                                                                                                                                                |  |                                                                                                                                   |  |                                                                                                                                   |  |                       |  |
|----------------------------------------------------------------------------------|--|----------------------|--|---------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|
| FY24 GENERATOR<br>REPLACEMENT<br>PREPARED FOR<br>IKEA MINNEAPOLIS<br>BLOOMINGTON |  | SHEET NUMBER<br>E300 |  | EXISTING<br>ONE-LINE<br>DIAGRAM |  | KHA PROJECT<br>93659017<br>DATE<br>06/12/2024<br>SCALE AS SHOWN<br>DESIGNED BY AB<br>DRAWN BY AB<br>CHECKED BY JDC                                                                                                                                                                             |  | KIMLEY-HORN AND ASSOCIATES, INC.<br>767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114<br>PHONE 651-656-4197<br>WWW.KIMLEY-HORN.COM |  | KIMLEY-HORN AND ASSOCIATES, INC.<br>767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114<br>PHONE 651-656-4197<br>WWW.KIMLEY-HORN.COM |  | NO. REVISIONS DATE BY |  |
|                                                                                  |  |                      |  |                                 |  | I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.<br>Jung P. Park<br>06/12/2024<br>05/12/2024<br>DATE: 06/12/2024 LIC. NO. 46246 |  |                                                                                                                                   |  |                                                                                                                                   |  |                       |  |



1. GRAY LINES INDICATE EXISTING TO REMAIN. BOLD LINES INDICATE NEW WORK.
2. EXISTING BUILDING GROUNDING SYSTEM TO REMAIN. CONTRACTOR SHALL CONFIRM COMPLIANCE WITH NEC 250 AND MAKE UPGRADES AS REQUIRED.
3. FOR ALL BREAKERS RATED 1200A OR HIGHER, PROVIDE RMS SWITCH WITH LOCAL STATUS INDICATOR, OR OTHERWISE COMPLY WITH THE REQUIREMENTS OF NEC 240.8.
4. EMERGENCY AND STANDBY POWER SYSTEMS SHALL BE SELECTIVELY COORDINATED PER NEC 700/701. PROVIDE A COMPLETE MANUFACTURER'S POWER SYSTEM STUDY, INCLUDING SHORT CIRCUIT STUDY, SELECTIVE COORDINATION STUDY, AND ARC FLASH ASSESSMENT. SERIES RATED SYSTEM IS ACCEPTABLE. ALL STUDIES SHALL COMPLY WITH NFPA 70.
5. PER NEC 110.22(B), SERIES COMBINATION RATED SYSTEMS SHALL BE CLEARLY LABELED AS SUCH AND SHALL STATE THE FOLLOWING: "CAUTION -ENGINEERED SERIES COMBINATION SYSTEM RATED ##### AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED."
6. SEE E500 FOR EXISTING ONE-LINE DIAGRAM WIRING SCHEDULE.

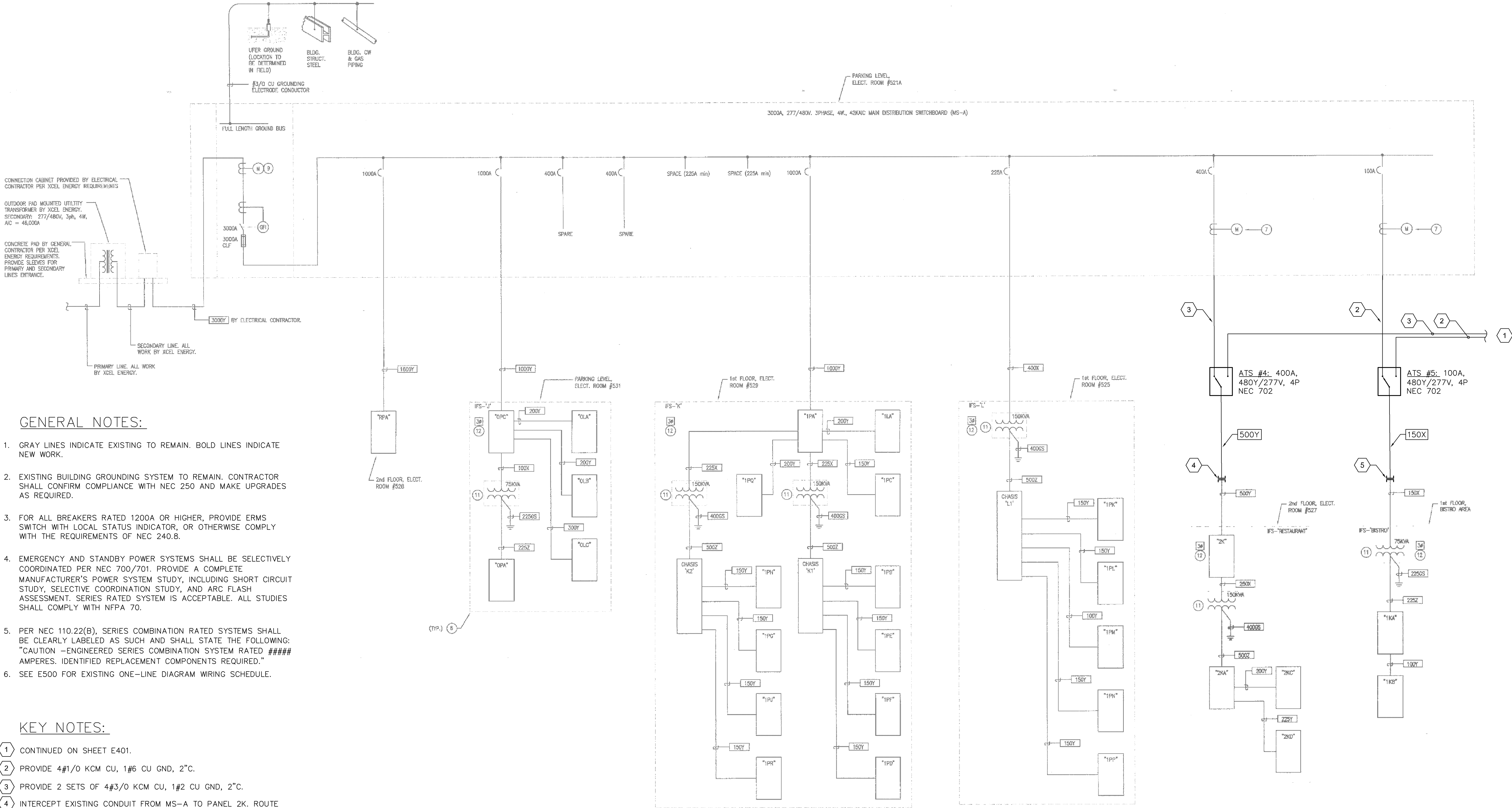
### KEY NOTES:

- 1 DEMOLISH EXISTING AUTOMATIC TRANSFER SWITCH. MAINTAIN LOAD CONDUIT AND CONDUCTORS FOR EXTENSION AND RECONNECTION TO NEW ATS.
- 2 DEMOLISH CONDUITS AND CONDUCTORS BACK TO SOURCE.
- 3 DEMOLISH EXISTING GENERATOR AND ASSOCIATED FEEDER AND CONTROL CONDUIT AND CONDUCTORS.
- 4 DEMOLISH CONDUIT FROM GENERATOR TO CLOSEST POINT IN BUILDING. DEMOLISH CONDUCTORS TO SOURCE.

1 ONE-LINE DIAGRAM MS-B – EXISTING/DEMO  
SCALE: N.T.S

|                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| FY24 GENERATOR<br>REPLACEMENT<br>PREPARED FOR<br>IKEA MINNEAPOLIS<br>BLOOMINGTON                                                                                                                                             |  | MINN                                                                                                                                                                                                                         |  |
| SHEET NUMBER<br>E301                                                                                                                                                                                                         |  |                                                                                                                                                                                                                              |  |
| EXISTING<br>ONE-LINE<br>DIAGRAM                                                                                                                                                                                              |  |                                                                                                                                                                                                                              |  |
| KHA PROJECT<br>93659017                                                                                                                                                                                                      |  | KHA PROJECT<br>93659017                                                                                                                                                                                                      |  |
| DATE<br>06/12/2024                                                                                                                                                                                                           |  | DATE<br>06/12/2024                                                                                                                                                                                                           |  |
| SCALE AS SHOWN                                                                                                                                                                                                               |  | SCALE AS SHOWN                                                                                                                                                                                                               |  |
| DESIGNED BY<br>AB                                                                                                                                                                                                            |  | DESIGNED BY<br>AB                                                                                                                                                                                                            |  |
| DRAWN BY<br>AB                                                                                                                                                                                                               |  | DRAWN BY<br>AB                                                                                                                                                                                                               |  |
| CHECKED BY<br>JDC                                                                                                                                                                                                            |  | CHECKED BY<br>JDC                                                                                                                                                                                                            |  |
| HEREBY CERTIFY THAT THIS PLAN<br>SPECIFICATION OR REPORT WAS PREPARED BY<br>ME OR UNDER MY CLOSE PERSONAL SUPERVISION<br>AND THAT I AM A DULY LICENSED PROFESSIONAL<br>ENGINEER UNDER THE LAWS OF THE STATE OF<br>MINNESOTA. |  | HEREBY CERTIFY THAT THIS PLAN<br>SPECIFICATION OR REPORT WAS PREPARED BY<br>ME OR UNDER MY CLOSE PERSONAL SUPERVISION<br>AND THAT I AM A DULY LICENSED PROFESSIONAL<br>ENGINEER UNDER THE LAWS OF THE STATE OF<br>MINNESOTA. |  |
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| Kimley»Horn                                                                                                                                                                                                                  |  | Kimley»Horn                                                                                                                                                                                                                  |  |
| No.                                                                                                                                                                                                                          |  | No.                                                                                                                                                                                                                          |  |
| REVISIONS                                                                                                                                                                                                                    |  | REVISIONS                                                                                                                                                                                                                    |  |
| DATE                                                                                                                                                                                                                         |  | DATE                                                                                                                                                                                                                         |  |
| BY                                                                                                                                                                                                                           |  | BY                                                                                                                                                                                                                           |  |

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GENERAL NOTES:

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- EXISTING BUILDING GROUNDING SYSTEM TO REMAIN. CONTRACTOR SHALL CONFIRM COMPLIANCE WITH NEC 250 AND MAKE UPGRADES AS REQUIRED.
- FOR ALL BREAKERS RATED 1200A OR HIGHER, PROVIDE ERMS SWITCH WITH LOCAL STATUS INDICATOR, OR OTHERWISE COMPLY WITH THE REQUIREMENTS OF NEC 240.8.
- EMERGENCY AND STANDBY POWER SYSTEMS SHALL BE SELECTIVELY COORDINATED PER NEC 700/701. PROVIDE A COMPLETE MANUFACTURER'S POWER SYSTEM STUDY, INCLUDING SHORT CIRCUIT STUDY, SELECTIVE COORDINATION STUDY, AND ARC FLASH ASSESSMENT. SERIES RATED SYSTEM IS ACCEPTABLE. ALL STUDIES SHALL COMPLY WITH NFPA 70.
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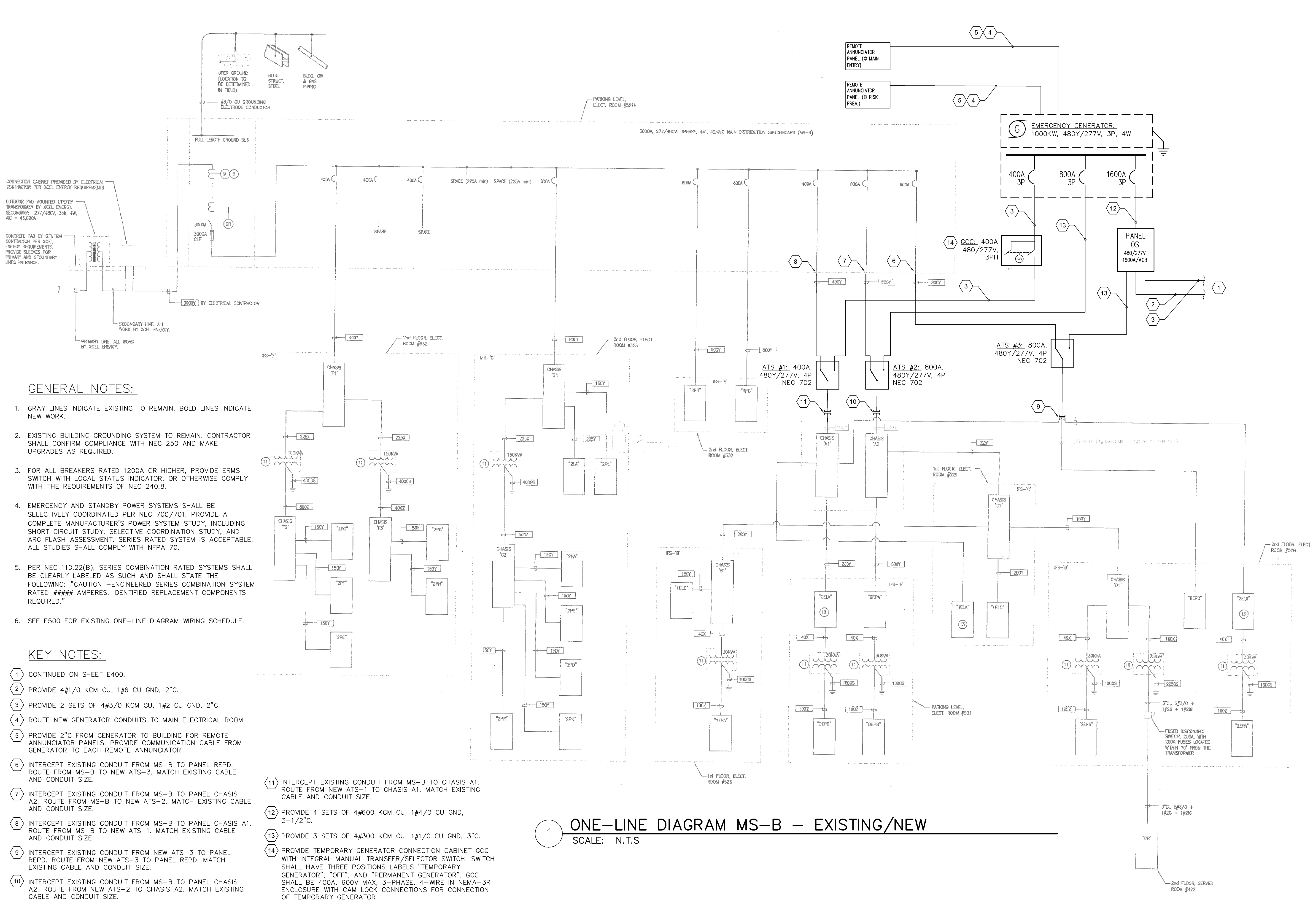
KEY NOTES:

- CONTINUED ON SHEET E401.
- PROVIDE 4#1/0 KCM CU, 1#6 CU GND, 2"C.
- PROVIDE 2 SETS OF 4#3/0 KCM CU, 1#2 CU GND, 2"C.
- INTERCEPT EXISTING CONDUIT FROM MS-A TO PANEL 2K. ROUTE FROM NEW ATS-4 TO PANEL 2K. PROVIDE ADDITIONAL CONDUCTORS AND CONDUIT AS NECESSARY AND MATCH EXISTING.
- INTERCEPT EXISTING CONDUIT FROM MS-A TO BISTRO TRANSFORMER. ROUTE FROM NEW ATS-5 TO BISTRO TRANSFORMER. PROVIDE ADDITIONAL CONDUCTORS AND CONDUIT AS NECESSARY AND MATCH EXISTING.

1 ONE-LINE DIAGRAM MS-A - EXISTING/NEW  
SCALE: N.T.S

|                                                                               |                             |                           |                                                                                                                                |                                                                                                                                                                                                                                          |                                                                                                                                           |             |           |      |    |
|-------------------------------------------------------------------------------|-----------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|------|----|
| FY24 GENERATOR REPLACEMENT<br>PREPARED FOR<br>IKEA MINNEAPOLIS<br>BLOOMINGTON | SHEET NUMBER<br><b>E400</b> | PROPOSED ONE-LINE DIAGRAM | KHA PROJECT<br>93659017<br>DATE<br>06/12/2024<br>SCALE<br>AS SHOWN<br>DESIGNED BY<br>AB<br>DRAWN BY<br>AB<br>CHECKED BY<br>JDC | LIBRARY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.<br><br>Judy D. Jensen<br>JUN 13 2024<br>MINN<br>LIC 46246 | © 2024 KIMLEY-HORN AND ASSOCIATES, INC.<br>767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114<br>PHONE: 651-445-4197<br>WWW.KIMLEY-HORN.COM | Kimley»Horn | REVISIONS | DATE | BY |
|                                                                               |                             |                           | No.                                                                                                                            |                                                                                                                                                                                                                                          |                                                                                                                                           |             |           |      |    |

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|                                         |  |                         |  |                        |  |                       |  |                       |  |                       |  |                       |  |
|-----------------------------------------|--|-------------------------|--|------------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|
| KHA PROJECT<br>93659017                 |  | KHA DATE<br>06/12/2024  |  | KHA SCALE<br>AS SHOWN  |  | KHA DESIGNED BY<br>AB |  | KHA DRAWN BY<br>AB    |  | KHA CHECKED BY<br>JDC |  |                       |  |
|                                         |  | KHA PROJECT<br>93659017 |  | KHA DATE<br>06/12/2024 |  | KHA SCALE<br>AS SHOWN |  | KHA DESIGNED BY<br>AB |  | KHA DRAWN BY<br>AB    |  | KHA CHECKED BY<br>JDC |  |
| FY24 GENERATOR REPLACEMENT PREPARED FOR |  | Ikea MINNEAPOLIS        |  | BLOOMINGTON            |  | MN                    |  | SHEET NUMBER<br>E401  |  | DATE                  |  | BY                    |  |

**Kimley»Horn**

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LIBRARY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

*[Signature]*  
JUN 12 2024  
JUN 12 2024

DATE: 06/12/2024  
LIC. NO. 46246

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| 3 WIRE FEEDER & GROUND FEEDERS |                                            | 4 WIRE FEEDER & GROUND FEEDERS |                                            | 4 WIRE FEEDERS (FROM XFMR) |                                       |
|--------------------------------|--------------------------------------------|--------------------------------|--------------------------------------------|----------------------------|---------------------------------------|
| SYMBOL                         | CONDUIT & CONDUCTOR SIZE                   | SYMBOL                         | CONDUIT & CONDUCTOR SIZE                   | SYMBOL                     | CONDUIT & CONDUCTOR SIZE              |
| 20X                            | 1/2" C, 3#12 + 1#12G                       | 20Y                            | 3/4" C, 4#12 + 1#12G                       | 50Z                        | 1-1/4" C, 4#6 + 1#6G                  |
| 30X                            | 3/4" C, 3#10 + 1#10G                       | 30Y                            | 3/4" C, 4#10 + 1#10G                       | 100Z                       | 2" C, 4#1 + 1#6G                      |
| 40X                            | 1" C, 3#8 + 1#8G                           | 40Y                            | 3" C, 4#8 + 1#8G                           | 150Z                       | 2" C, 4#1/0 + 1#6G                    |
| 50X                            | 1-1/4" C, 3#6 + 1#10G                      | 50Y                            | 1-1/4" C, 4#6 + 1#10G                      | 225Z                       | 3" C, 4#4/0 + 1#2G                    |
| 60X                            | 1-1/4" C, 3#4 + 1#10G                      | 60Y                            | 1-1/4" C, 4#4 + 1#10G                      | 350Z                       | 4" C, 4#500kcmil + 1#1/0G             |
| 70X                            | 1-1/4" C, 3#4 + 1#8G                       | 70Y                            | 1-1/2" C, 4#4 + 1#8G                       | 400Z                       | 2 SETS OF (2" C, 4#3/0kcmil + 1#4G)   |
| 80X                            | 1-1/2" C, 3#2 + 1#8G                       | 80Y                            | 2" C, 4#2 + 1#8G                           | 500Z                       | 2 SETS OF (3" C, 4#250kcmil + 1#2/0G) |
| 90X                            | 1-1/2" C, 3#2 + 1#8G                       | 90Y                            | 2" C, 4#2 + 1#8G                           | 800Z                       | 2 SETS OF (4" C, 4#600kcmil + 1#3/0G) |
| 100X                           | 1-1/2" C, 3#1 + 1#8G                       | 100Y                           | 2" C, 4#1 + 1#8G                           | 1000Z                      | 3 SETS OF (4" C, 4#400kcmil + 1#3/0G) |
| 125X                           | 2" C, 3#1/0 + 1#6G                         | 125Y                           | 2" C, 4#1/0 + 1#6G                         |                            |                                       |
| 150X                           | 2" C, 3#1/0 + 1#6G                         | 150Y                           | 2" C, 4#1/0 + 1#6G                         |                            |                                       |
| 175X                           | 2" C, 3#2/0 + 1#6G                         | 175Y                           | 2-1/2" C, 4#2/0 + 1#6G                     |                            |                                       |
| 200X                           | 2" C, 3#3/0 + 1#6G                         | 200Y                           | 2-1/2" C, 4#3/0 + 1#6G                     |                            |                                       |
| 225X                           | 2-1/2" C, 3#4/0 + 1#4G                     | 225Y                           | 3" C, 4#4/0 + 1#4G                         |                            |                                       |
| 250X                           | 2-1/2" C, 3#250kcmil + 1#4G                | 250Y                           | 3" C, 4#250kcmil + 1#4G                    |                            |                                       |
| 300X                           | 3" C, 3#350kcmil + 1#4G                    | 300Y                           | 3-1/2" C, 4#350kcmil + 1#4G                |                            |                                       |
| 350X                           | 3" C, 3#500kcmil + 1#2G                    | 350Y                           | 4" C, 4#500kcmil + 1#2G                    |                            |                                       |
| 400X                           | 2 SETS OF (2" C, 3#3/0kcmil + 1#2G)        | 400Y                           | 2 SETS OF (2" C, 4#3/0kcmil + 1#2G)        |                            |                                       |
| 500X                           | 2 SETS OF (2-1/2" C, 3#250kcmil + 1#2G)    | 500Y                           | 2 SETS OF (3" C, 4#250kcmil + 1#2G)        |                            |                                       |
| 600X                           | 2 SETS OF (3" C, 3#350kcmil + 1#1G)        | 600Y                           | 2 SETS OF (3-1/2" C, 4#350kcmil + 1#1G)    |                            |                                       |
| 800X                           | 3 SETS OF (3" C, 3#300kcmil + 1#1/0G)      | 800Y                           | 3 SETS OF (3" C, 4#300kcmil + 1#1/0G)      |                            |                                       |
| 1000X                          | 3 SETS OF (3" C, 3#400kcmil + 1#2/0G)      | 1000Y                          | 3 SETS OF (3" C, 4#400kcmil + 1#2/0G)      |                            |                                       |
| 1200X                          | 3 SETS OF (3" C, 3#250kcmil + 1#3/0G)      | 1200Y                          | 5 SETS OF (3" C, 4#250kcmil + 1#3/0G)      |                            |                                       |
| 1600X                          | 3 SETS OF (4" C, 3#400kcmil + 1#4/0G)      | 1600Y                          | 5 SETS OF (4" C, 4#400kcmil + 1#4/0G)      |                            |                                       |
| 2000X                          | 6 SETS OF (4" C, 3#500kcmil + 1#250kcmilG) | 2000Y                          | 6 SETS OF (4" C, 4#500kcmil + 1#250kcmilG) |                            |                                       |
| 2500X                          | 7 SETS OF (4" C, 3#500kcmil + 1#350kcmilG) | 2500Y                          | 7 SETS OF (4" C, 4#500kcmil + 1#350kcmilG) |                            |                                       |
| 3000X                          | 8 SETS OF (4" C, 3#500kcmil + 1#400kcmilG) | 3000Y                          | 8 SETS OF (4" C, 4#500kcmil + 1#400kcmilG) |                            |                                       |
|                                |                                            |                                |                                            | SYMBOL                     | CONDUIT & CONDUCTOR SIZE              |
|                                |                                            |                                |                                            | 506S                       | 1/2" C, 1#8                           |
|                                |                                            |                                |                                            | 1006S                      | 1/2" C, 1#8                           |
|                                |                                            |                                |                                            | 1506S                      | 1/2" C, 1#2                           |
|                                |                                            |                                |                                            | 2256S                      | 1/2" C, 1#2                           |
|                                |                                            |                                |                                            | 3506S                      | 3/4" C, 1#1/0                         |
|                                |                                            |                                |                                            | 4006S                      | 3/4" C, 1#1/0                         |
|                                |                                            |                                |                                            | 8006S                      | 3/4" C, 1#3/0                         |
|                                |                                            |                                |                                            | 10006S                     | 3/4" C, 1#3/0                         |

+ IG: PROVIDE ADDITIONAL ISOLATED GROUND WIRE TO FEEDER AS INDICATED. INCREASE CONDUIT SIZE AS REQUIRED.

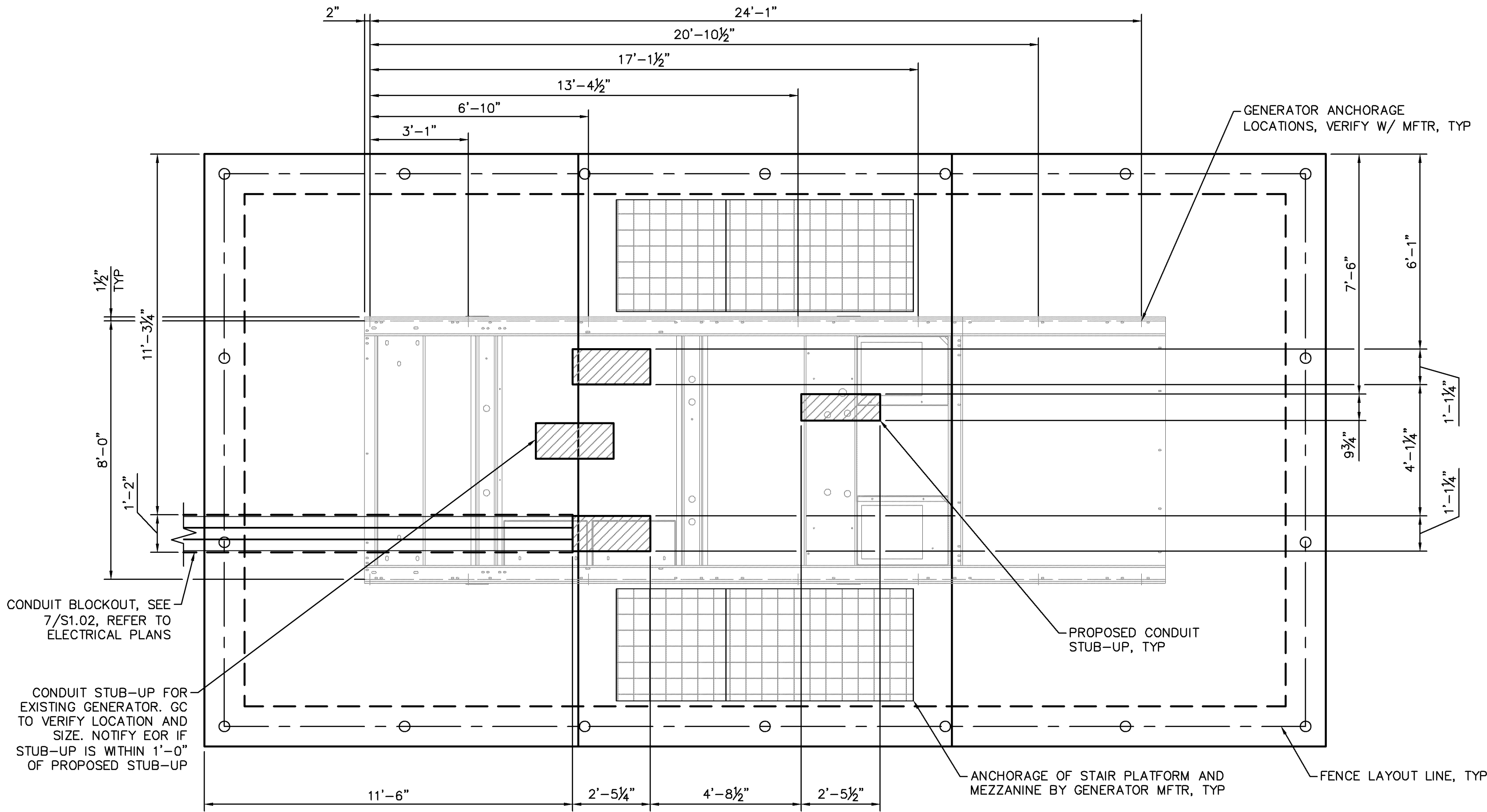
NOTE:

1. WIRING SCHEDULE IS FROM EXISTING BUILDING RECORD DRAWINGS AND PROVIDED AS REFERENCE. CONTRACTOR TO CONFIRM EXISTING WIRING FOR MODIFIED FEEDERS.

## EXISTING ONE-LINE DIAGRAM WIRE SCHEDULE

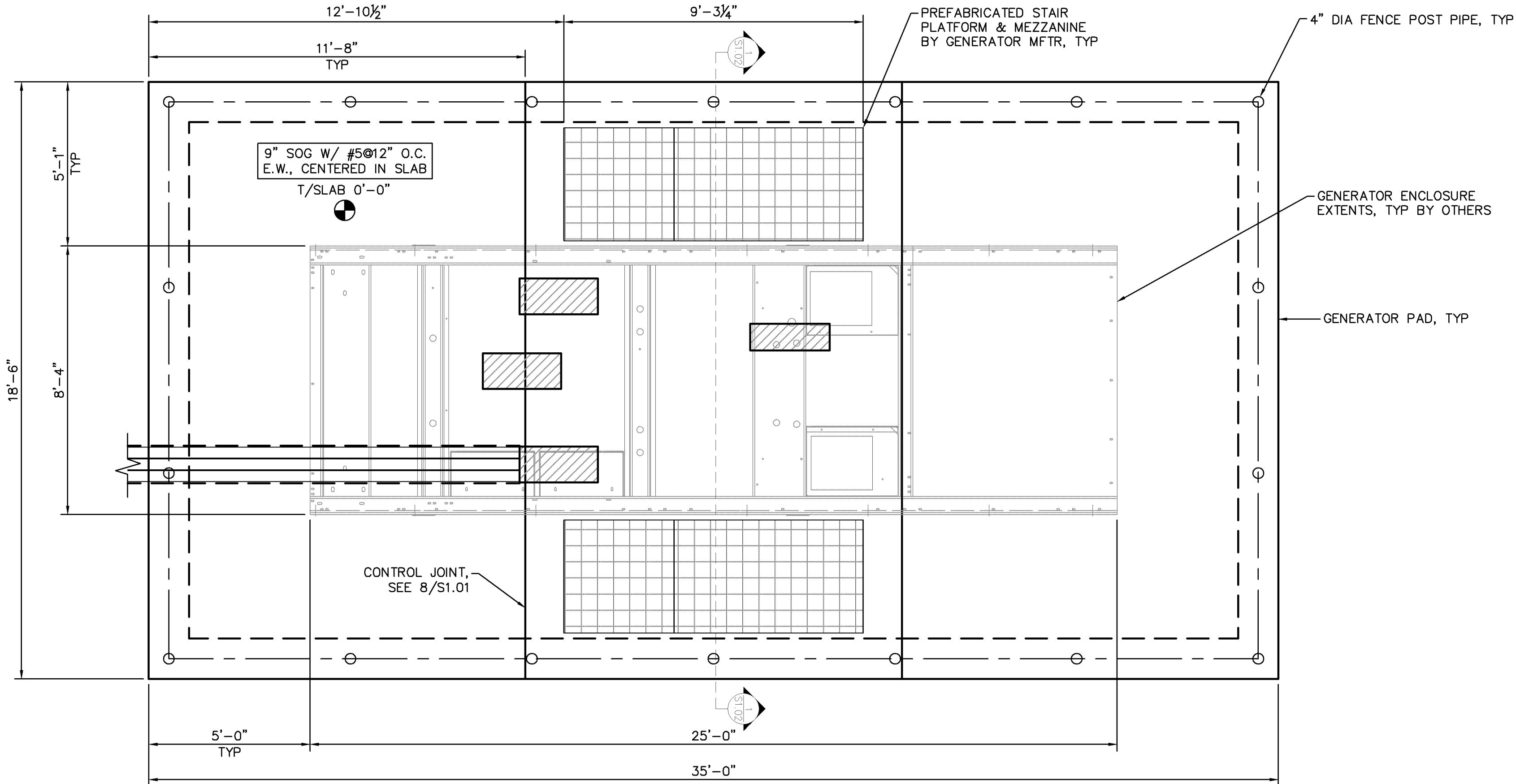
SCALE:NTS





A Building Permit is required for the new generator pad and the fence (if over 7' in height). Structural Engineer plans shall be submitted with permit application.

2  
S1.01  
GENERATOR PAD STUB & ANCHORAGE LAYOUT  
SCALE: 3/8" = 1'-0"



1  
S1.01  
GENERATOR PAD LAYOUT  
SCALE: 3/8" = 1'-0"

|                                                             |             |    |                                 |                                                                                                                          |                                                                                                                                                                                                                                                                                                             |                                                                                                                          |                                                                                                                                                         |     |           |      |    |
|-------------------------------------------------------------|-------------|----|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|------|----|
| FY24 GENERATOR REPLACEMENT PREPARED FOR<br>IKEA MINNEAPOLIS | BLOOMINGTON | MN | STRUCTURAL EQUIPMENT PAD LAYOUT | KHA PROJECT<br>93659017<br>DATE<br>05/09/2024<br>SCALE: AS SHOWN<br>DESIGNED BY: CMC<br>DRAWN BY: CMC<br>CHECKED BY: ALB | I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, AND CALCULATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.<br><br>Neil A. Horn<br>0248-0050<br>NEIL A. HORN<br>MIN. LIC. NO. 44774<br>DATE: 05/09/2024 | KHA PROJECT<br>93659017<br>DATE<br>05/09/2024<br>SCALE: AS SHOWN<br>DESIGNED BY: CMC<br>DRAWN BY: CMC<br>CHECKED BY: ALB | Kimley»Horn<br>© 2024 KIMLEY-HORN AND ASSOCIATES, INC.<br>767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114<br>PHONE 651-645-4197<br>WWW.KIMLEY-HORN.COM | No. | REVISIONS | DATE | BY |
|                                                             |             |    |                                 |                                                                                                                          |                                                                                                                                                                                                                                                                                                             |                                                                                                                          |                                                                                                                                                         |     |           |      |    |

