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SITE DEVELOPMENT PLANS
FOR
FY24 GENERATOR REPLACEMENT

8000 IKEA WAY
BLOOMINGTON, HENNEPIN COUNTY, MN

PROJECT TEAM:

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.



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STRUCTURAL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.



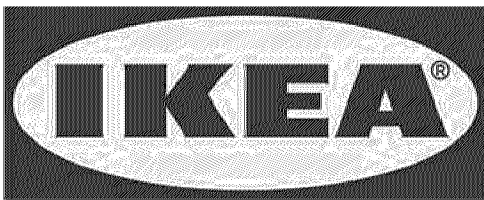
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ELECTRICAL ENGINEER
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OWNER / DEVELOPER
IKEA MINNEAPOLIS

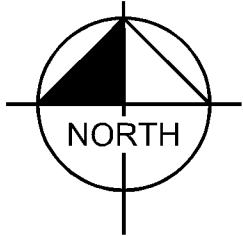


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VICINITY
N.T.S.



SITE

NOTES:

- CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS FOR THE SITE MATCH WHAT IS SHOWN ON THE DRAWINGS INCLUDED PRIOR TO CONSTRUCTION.
- IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A 22x34 SHEET.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

Sheet List Table	
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C000	COVER SHEET
C100	GENERAL NOTES
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E300	EXISTING ONE-LINE DIAGRAM
E301	EXISTING ONE-LINE DIAGRAM
E400	PROPOSED ONE-LINE DIAGRAM
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S1.01	STRUCTURAL EQUIPMENT PAD LAYOUT
S1.02	STRUCTURAL EQUIPMENT PAD DETAILS



FY24 GENERATOR REPLACEMENT
PREPARED FOR
IKEA MINNEAPOLIS
BLOOMINGTON MN

SHEET NUMBER
C000

COVER SHEET

PL202400054
PL2024-54

Kimley»Horn

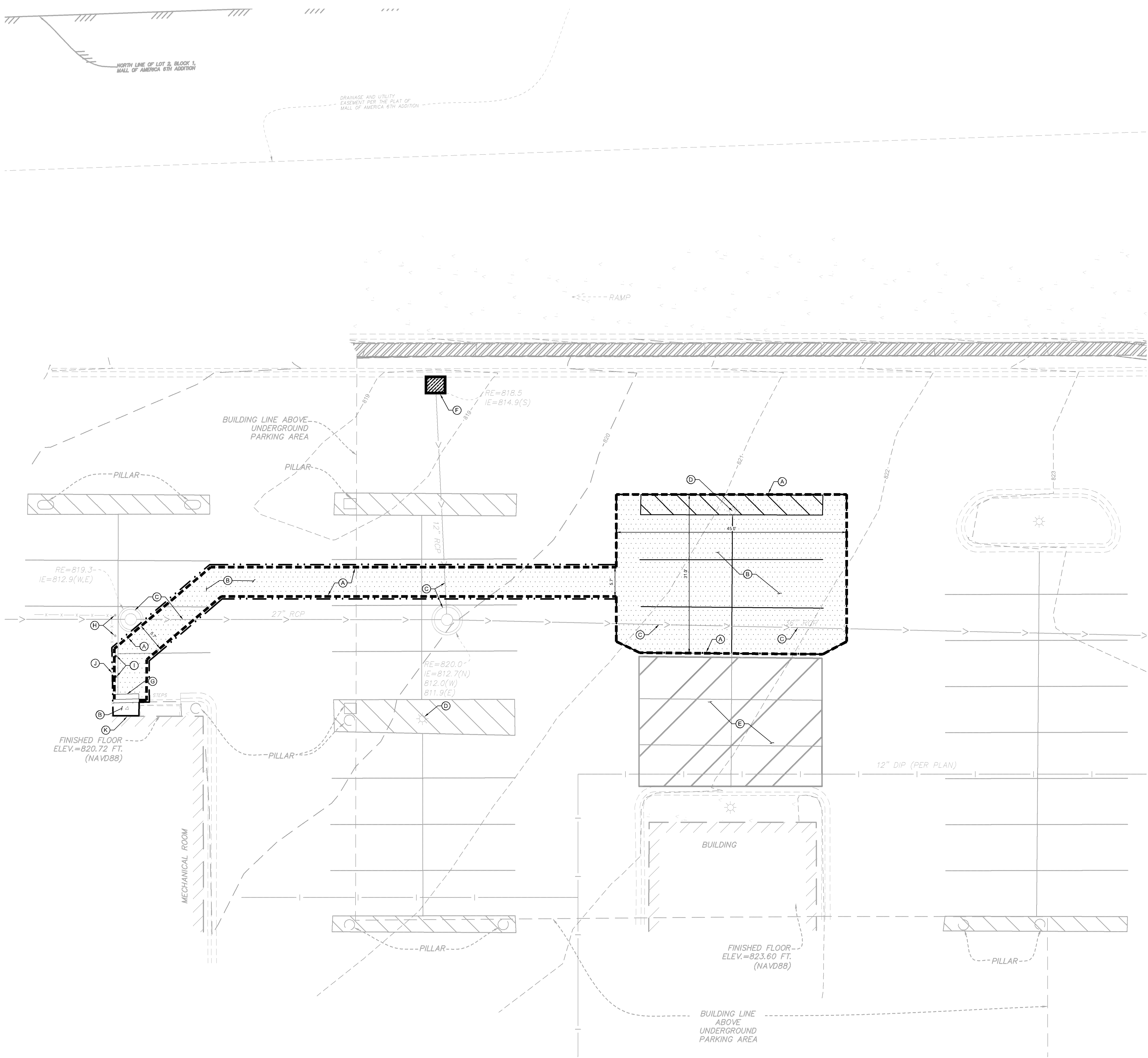
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REVISIONS

DATE

BY

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DEMOLITION PLAN NOTES

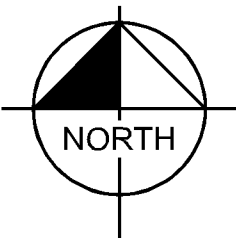
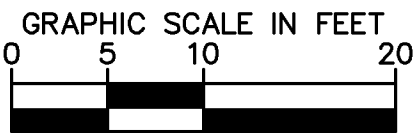
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS ON THE PLANS CAN BE CONSTRUCTED. FACILITIES 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 |

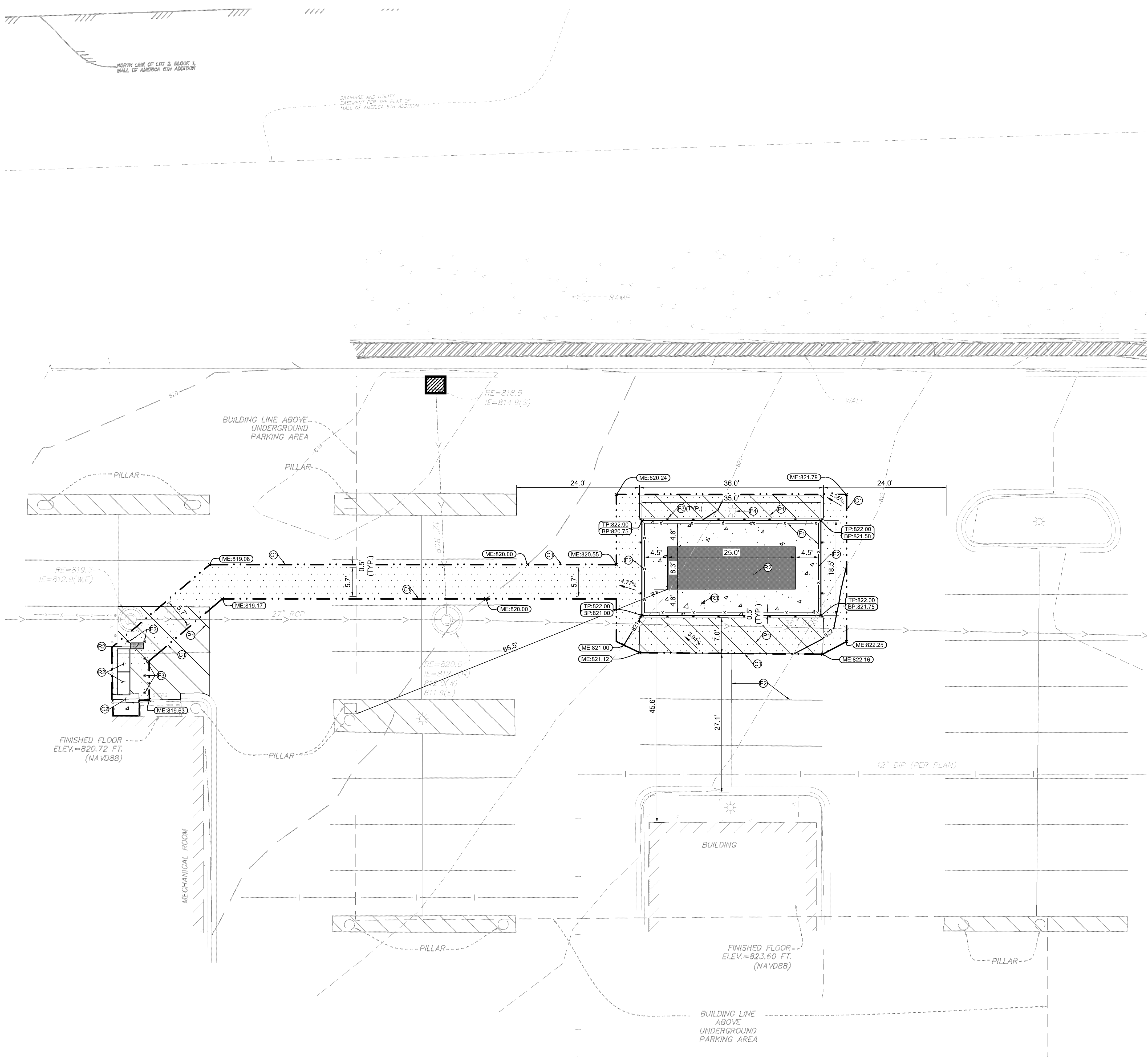
LEGEND

- | | |
|-----------|--------------------------------|
| --- | 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 PREPARED FOR IKEA MINNEAPOLIS BLOOMINGTON MN		SHEET NUMBER C200	
EXISTING CONDITIONS AND REMOVALS PLAN		KIMLEY»Horn	
KHA PROJECT 93659017 DATE 06/12/2024 SCALE AS SHOWN DESIGNED BY RWC DRAWN BY RWC CHECKED BY TJJ		© 2024 KIMLEY-HORN AND ASSOCIATES, INC. 767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114 PHONE: 651-945-4197 WWW.KIMLEY-HORN.COM	
THOMAS J. KIMLEY, INC. 06/12/2024 MN LIC. 21433		No. REVISIONS DATE BY	

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SITE PLAN NOTES

- REFER TO THE SITE ELECTRICAL PLAN FOR LOCATIONS OF PROPOSED LIGHT POLES, CONDUITS, AND ELECTRICAL EQUIPMENT.
- REFER TO CERTIFIED SITE SURVEY OR PLAT FOR EXACT LOCATION OF EXISTING EASEMENTS, PROPERTY BOUNDARY DIMENSIONS, AND ADJACENT RIGHT-OF-WAY & PARCEL INFORMATION.
- DIMENSIONS AND RADII ARE DRAWN TO THE FACE OF CURB, UNLESS OTHERWISE NOTED. DIMENSIONS ARE ROUNDED TO THE NEAREST TENTH FOOT, AND AREAS ARE ROUNDED TO THE NEAREST SQUARE FOOT.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING EXISTING SITE IMPROVEMENTS THAT CONFLICT WITH THE PROPOSED WORK, INCLUDING BUT NOT LIMITED TO TRAFFIC SIGNS, LIGHT POLES, ABOVEGROUND UTILITIES, ETC. PERFORM WORK IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS. COST SHALL BE INCLUDED IN BASE BID.
- TYPICAL PARKING STALL DIMENSIONS SHALL BE 9.0-FEET IN WIDTH AND 18-FEET IN LENGTH UNLESS OTHERWISE INDICATED.

GRADING PLAN NOTES

- PERFORM GRADING WORK IN ACCORDANCE WITH APPLICABLE CITY SPECIFICATIONS AND BUILDING PERMIT REQUIREMENTS.
- CONTACT STATE 811 CALL-BEFORE-YOU-DIG LOCATING SERVICE AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION FOR UNDERGROUND UTILITY LOCATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
- FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO THE START OF LAND DISTURBING ACTIVITIES. NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR VARIATIONS IMPACTING THE PROPOSED DESIGN OF THE PROJECT.
- IN PAVED AREAS, ROUGH GRADE TO SUBGRADE ELEVATION AND LEAVE THE SITE READY FOR SUB-BASE.
- SUBGRADE EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AFTER EXCAVATION TO HELP OFFSET ANY STABILITY PROBLEMS DUE TO WATER SEEPAGE OR STEEP SLOPES. WHEN PLACING NEW SURFACE MATERIAL ADJACENT TO EXISTING PAVEMENT, THE EXCAVATION SHALL BE BACKFILLED PROMPTLY TO AVOID UNDERMINING OF EXISTING PAVEMENT.
- ELEVATIONS SHOWN REPRESENT FINISHED SURFACE GRADES. SPOT ELEVATIONS ALONG CURB & GUTTER REPRESENT THE FLOW LINE UNLESS OTHERWISE NOTED
- EXCESS MATERIAL, BITUMINOUS SURFACING, CONCRETE ITEMS, ABANDONED UTILITY ITEMS, AND OTHER UNSTABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE CONSTRUCTION SITE.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF PAVEMENTS AND CURB AND GUTTER WITH SMOOTH UNIFORM SLOPES THAT PROVIDE POSITIVE DRAINAGE TO COLLECTION POINTS. MAINTAIN A MINIMUM SLOPE OF 1.25% IN ASPHALT PAVEMENT AREAS AND A MINIMUM SLOPE OF 0.50% IN CONCRETE PAVEMENT AREAS.
- MAINTAIN A MINIMUM SLOPE OF 0.50% ALONG CURB & GUTTER. REVIEW PAVEMENT GRADIENT AND CONSTRUCT "INFALL" CURB WHERE PAVEMENT DRAINS TOWARD THE GUTTER, AND "OUTFALL" CURB WHERE PAVEMENT DRAINS AWAY FROM THE GUTTER.
- INSTALL A MINIMUM OF 4-INCHES OF AGGREGATE BASE MATERIAL UNDER PROPOSED CONCRETE CURB & GUTTER, SIDEWALKS, AND TRAILS UNLESS OTHERWISE NOTED.
- GRADING FOR SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING CROSSING DRIVEWAYS, SHALL CONFORM TO CURRENT STATE & NATIONAL ADA STANDARDS:

ACCESSIBLE RAMP SLOPES SHALL NOT EXCEED 8.3% (1:12).
SIDEWALK CROSS-SLOPES SHALL NOT EXCEED 2.0%.
LONGITUDINAL SIDEWALK SLOPES SHALL NOT EXCEED 5.0%.
ACCESSIBLE PARKING STALLS AND ACCESS AISLES SHALL NOT EXCEED 2.0% IN ANY DIRECTION. A MAXIMUM SLOPE OF 1.50% IS PREFERRED.

SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVEMENT INSTALLATION. CHANGE ORDERS WILL NOT BE ACCEPTED FOR ADA COMPLIANCE ISSUES.
- UPON COMPLETION OF LAND DISTURBING ACTIVITIES, RESTORE ADJACENT OFFSITE AREAS DISTURBED BY CONSTRUCTION TO MATCH OR EXCEED THE ORIGINAL CONDITION. LANDSCAPE AREAS SHALL BE RE-VEGETATED WITH A MINIMUM OF 4-INCHES OF TOPSOIL.
- EXCAVATE DRAINAGE TRENCHES TO FOLLOW PROPOSED STORM SEWER ALIGNMENTS. REFER TO THE UTILITY PLANS FOR LAYOUT AND ELEVATIONS FOR PROPOSED SANITARY SEWER, WATER MAIN, AND OTHER BUILDING UTILITY SERVICE CONNECTIONS.

KEYNOTE LEGEND

PAVEMENT

- (C1) MATCH EXISTING EDGE OF PAVEMENT - SEE DETAIL
- (C2) REPLACE CONCRETE CURB & GUTTER (MATCH EXISTING) - SEE DETAIL

SITE FIXTURES

- (F1) CHAIN-LINK FENCE - REFER TO STRUCTURAL PLANS
- (F2) 48" CHAIN-LINK FENCE SWING GATE, CENTERED ON
- (F3) 6" CONCRETE FILLED PIPE BOLLARD - SEE DETAIL
- (F4) PROTECT EXISTING LIGHT POLE

PAVEMENT MARKINGS

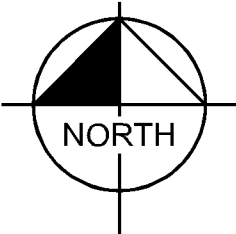
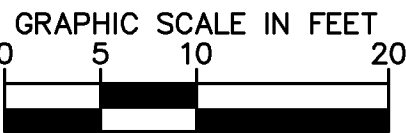
- (P1) STRIPED WHITE CROSS-HATCH AREA 4" SOLID LINES @ 45° 2' O.C.
- (P2) 4" WIDE WHITE PAINTED SOLID PARKING LOT LINE

REFERENCE NOTES

- (R2) EMERGENCY GENERATOR / GENERATOR CABINET - REFER TO ELECTRICAL PLANS
- (R3) EMERGENCY GENERATOR PAD - REFER TO STRUCTURAL PLANS

LEGEND

- LIMITS OF DISTURBANCE
- x-x-x-x-x-x- PROPOSED CHAINLINK FENCE
- [Pattern] STANDARD DUTY ASPHALT PAVEMENT
SEE DETAILS FOR SECTION
- [Pattern] HEAVY DUTY EMERGENCY GENERATOR CONCRETE PAD
REFER TO STRUCTURAL PLANS FOR SECTION
- - - - - EXISTING CONTOUR
- - - - - PROPOSED CONTOUR
- (100.00) PROPOSED SPOT ELEVATION
- (ME:0.0) MATCH EXISTING ELEVATION
- (TP:0.0 BP:0.0) PROPOSED TOP/BOTTOM OF PAD ELEVATION
- 0.0% PROPOSED DRAINAGE DIRECTION
- [Pattern] PROPOSED INLET PROTECTION



Know what's below.
Call before you dig.

FY24 GENERATOR REPLACEMENT		MIN	
PREPARED FOR			
IKEA MINNEAPOLIS			
BLOOMINGTON			
SHEET NUMBER			
C400			
KHA PROJECT 93559017		SPECIFICATION OR REPORT WAS PREPARED BY THIS FIRM OR BY AN INDIVIDUAL EMPLOYED BY THIS FIRM AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	
DATE 06/12/2024		DATE 06/12/2024	
SCALE AS SHOWN		MIN SCALE 1"=40'	
DESIGNED BY RWC		THOMAS J. RYAN 0202400055	
DRAWN BY RWC		DATE 06/12/2024	
CHECKED BY TJL		DATE 06/12/2024	
		REVISIONS	
		DATE	
		BY	
		No.	

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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 (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 X = CLOSED CONTACT 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 X=CLOSED CONTACT 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: 1 = WALL, 2 = FLOOR. SEE NOTE C.		KIRK KEYED INTERLOCK SWITCH						
	WALL SWITCH, SUBSCRIPT INDICATES TYPE (X): 2 = DOUBLE POLE 3 = THREE WAY 4 = FOUR WAY D = DIMMER T = THERMAL SWITCH 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		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	
GENERAL NOTES: A. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PROJECT DRAWINGS. B. MOUNTING PER SPECIFICATIONS UNLESS NOTED OTHERWISE. REFER TO PLAN DRAWINGS AND SECTIONS FOR MOUNTING HEIGHTS. C. NEMA 1 UNLESS INDICATED OTHERWISE: 3R=NEMA 3R, X=EXPLOSION PROOF 4X=NEMA 4X, WP=WEATHERPROOF. D. SEE CONTROL DIAGRAMS FOR OPERATIONAL SCHEMATIC. E. PROVIDE HOUSEKEEPING PAD AS REQUIRED PER SPECIFICATIONS. COORDINATE EXACT DIMENSIONS WITH MANUFACTURER'S SUBMITTALS. F. CONDUIT ZONE ELEVATIONS ARE ABOVE FINISHED FLOOR, UON.	SPECIAL NOTES: 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 REPLACEMENT PREPARED FOR IKEA MINNEAPOLIS BLOOMINGTON	MINN	ELECTRICAL SYMBOLS AND NOTES		KIMLEY HORN		KIMLEY HORN & ASSOCIATES, INC. 767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114 PHONE: 651-445-4197 WWW.KIMLEY-HORN.COM		No.		Revisions		Date		By	
		SHEET NUMBER E000		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.		SCALE AS SHOWN DESIGNED BY AB DRAWN BY AB CHECKED BY JDC		DATE: 06/12/2024 DATE: 06/12/2024 DATE: 06/12/2024 DATE: 06/12/2024		DATE: 06/12/2024 DATE: 06/12/2024 DATE: 06/12/2024 DATE: 06/12/2024		DATE: 06/12/2024 DATE: 06/12/2024 DATE: 06/12/2024 DATE: 06/12/2024		DATE: 06/12/2024 DATE: 06/12/2024 DATE: 06/12/2024 DATE: 06/12/2024	



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:

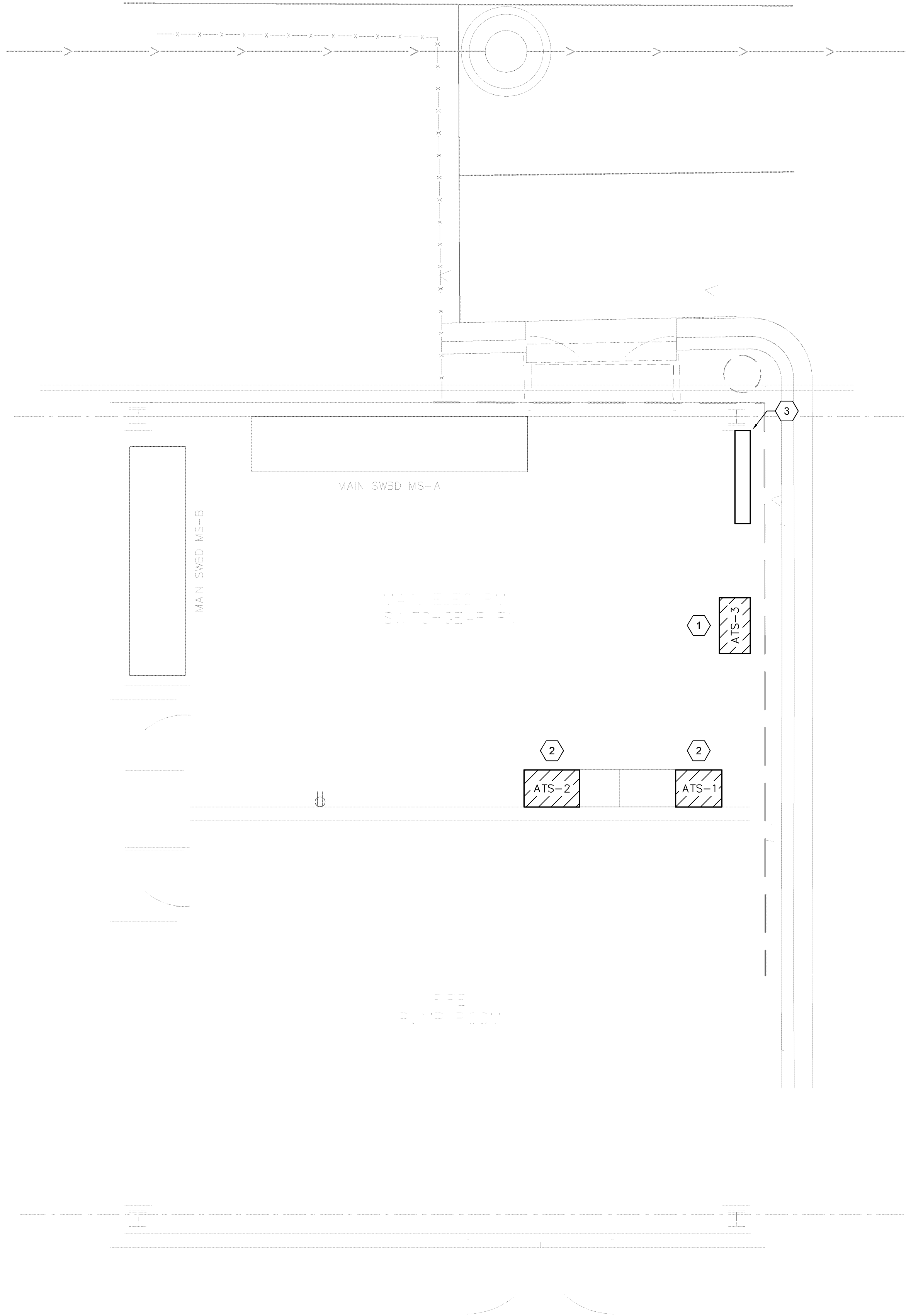
- 1 CONFIRM ROUTE OF LIGHTING CONDUITS. COORDINATE RELOCATION ROUTE WITH NEW GENERATOR PAD AS NEEDED.

FY24 GENERATOR REPLACEMENT		BLOOMINGTON		MINN	
PREPARED FOR IKEA MINNEAPOLIS					
SHEET NUMBER E100					
EXISTING ELECTRICAL SITE PLAN					
KHA PROJECT 93659017					
DATE 06/12/2024					
SCALE AS SHOWN					
DESIGNED BY AB					
DRAWN BY AB					
CHECKED BY JDC					
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.					
JERRY HORN JERRY HORN 06/12/2024 DATE: 06/12/2024 LIC. NO. 46246					
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Kimley»»»Horn					
No.					
Revisions					
Date					
By					

1

ELECTRICAL ENLARGED PLAN – DEMO

SCALE: 1/4"=1'-0"

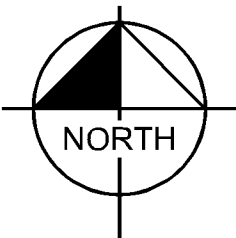


GENERAL NOTES:

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- 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:

- DEMOLISH AUTOMATIC TRANSFER SWITCH. DEMOLISH GENERATOR SIDE CONDUCTORS TO SOURCE.
- 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.
- SOLAR EQUIPMENT TO BE REPLACED BY OTHERS.



FY24 GENERATOR
REPLACEMENT
PREPARED FOR
IKEA MINNEAPOLIS

BLOOMINGTON MN

EXISTING
ELECTRICAL
SITE PLAN

KHA PROJECT
93659017
DATE
06/12/2024
SCALE AS SHOWN
DESIGNED BY AB
DRAWN BY AB
CHECKED BY JDC

LICENSE CERTIFY THAT THIS PLAN
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ME OR UNDER MY DIRECT SUPERVISION AND
THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE OF
MINNESOTA.
06/12/2024
JDC
06/12/2024
JDC
46246

Kimley»Horn

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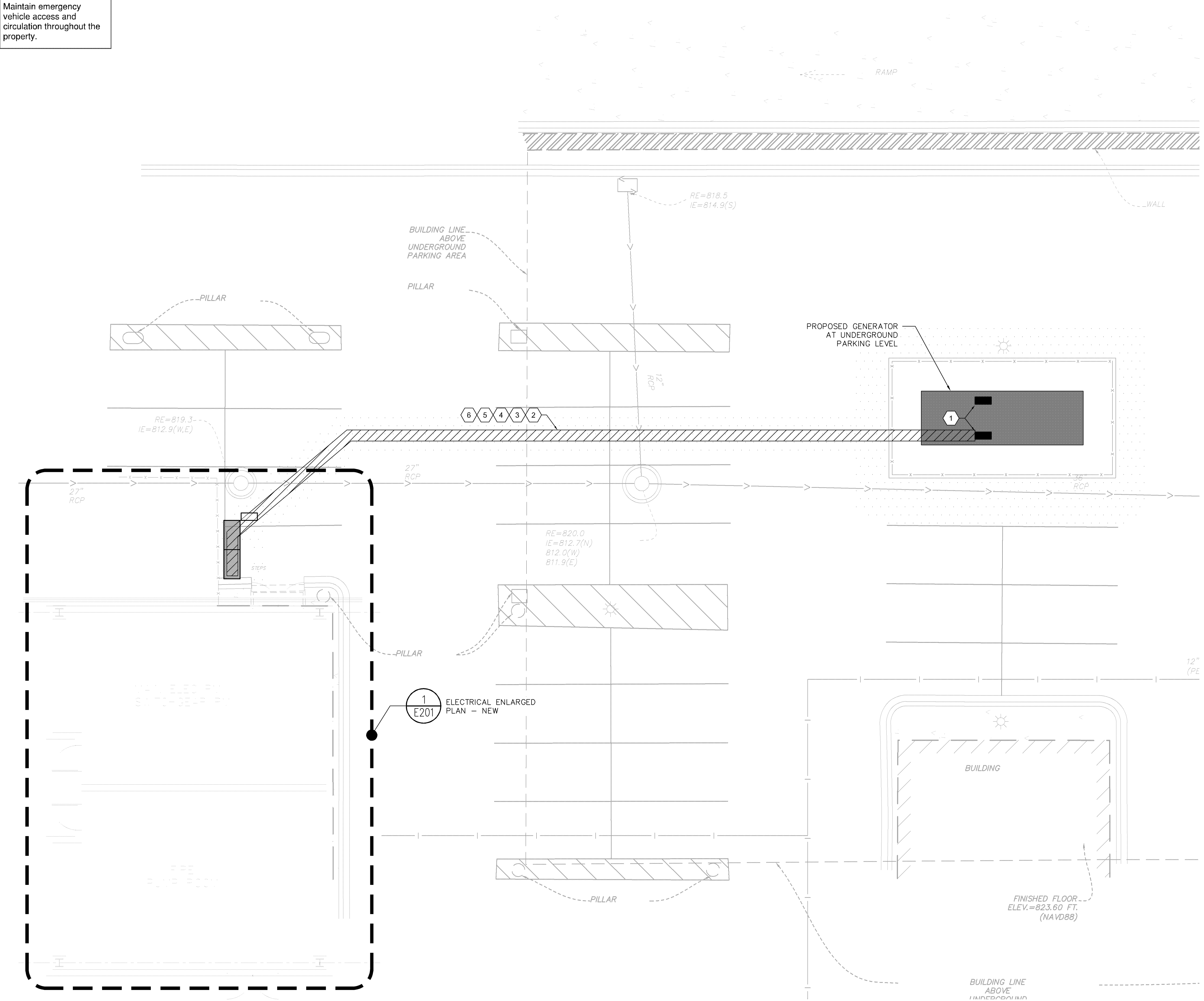
No.	REVISIONS	DATE	BY

SHEET NUMBER
E101

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

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. Rouse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Maintain emergency vehicle access and circulation throughout the property.



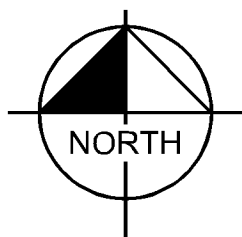
1 ELECTRICAL SITE PLAN - NEW
SCALE: 1/8"=1'-0"

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:

- 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.



FY24 GENERATOR REPLACEMENT PREPARED FOR IKEA MINNEAPOLIS		BLOOMINGTON MN	
SHEET NUMBER E200		DATE	
KHA PROJECT 93659017		DATE 06/12/2024	
SCALE AS SHOWN		DESIGNED BY AB	
DRAWN BY AB		CHECKED BY JDC	
LICENSE 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.		JERRY D. JONES 06/12/2024 MN LIC. #46246	
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BLOOMINGTON MN

10

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MINNESOTA.

[Signature]

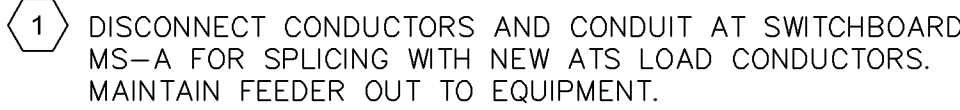
JEREMY D. BOGARD

DATE: 08/12/2024 MIN 46246

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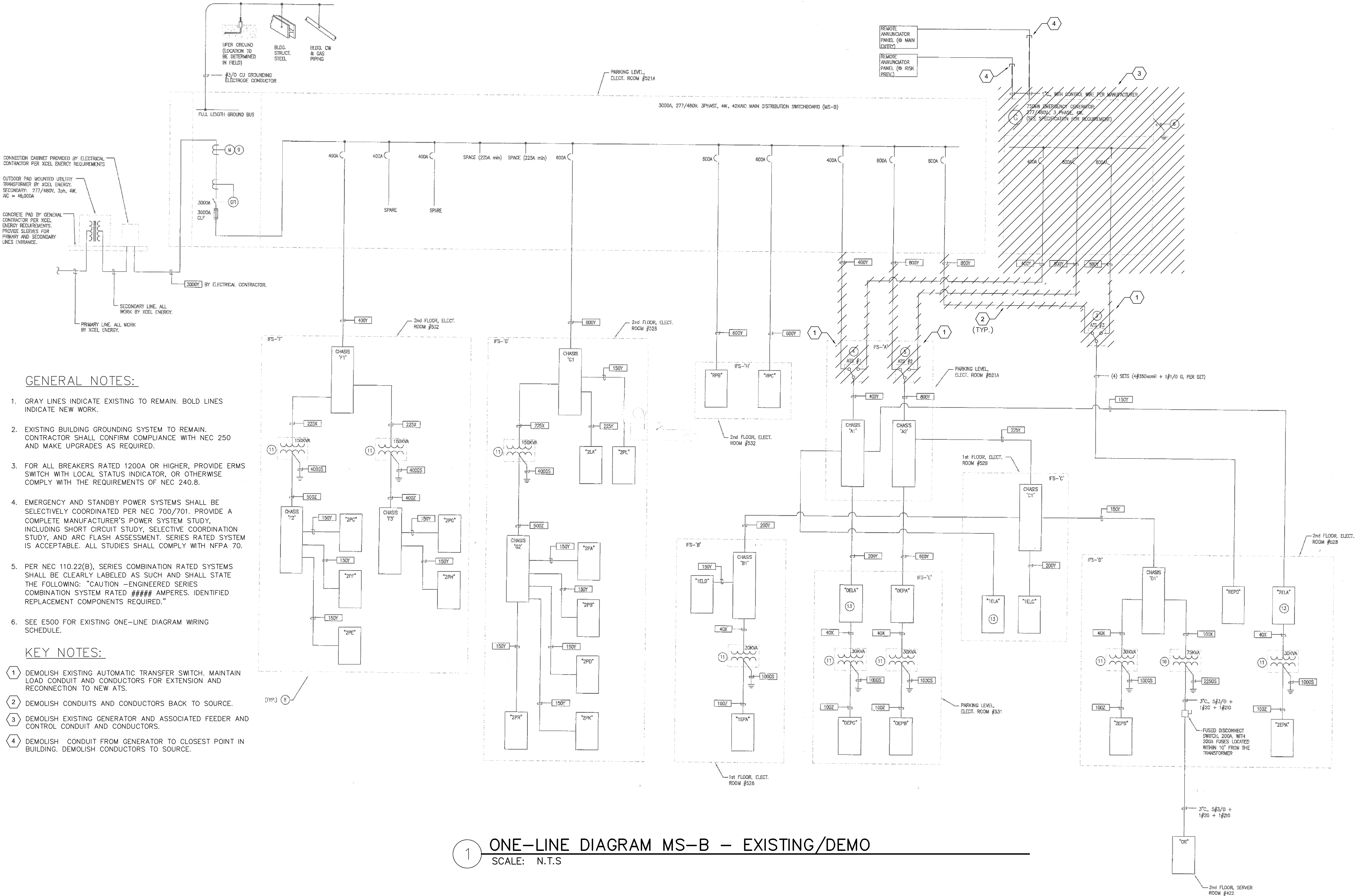
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6. PROTECT ALL CIRCUITS AND WIRING THAT ARE TO REMAIN.

- 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.



1

SHEET NUMBER
E300



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.
- 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.
- 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."
- SEE E500 FOR EXISTING ONE-LINE DIAGRAM WIRING SCHEDULE.

KEY NOTES:

- DEMOLISH EXISTING AUTOMATIC TRANSFER SWITCH. MAINTAIN LOAD CONDUIT AND CONDUCTORS FOR EXTENSION AND RECONNECTION TO NEW ATS.
- DEMOLISH CONDUITS AND CONDUCTORS BACK TO SOURCE.
- DEMOLISH EXISTING GENERATOR AND ASSOCIATED FEEDER AND CONTROL CONDUIT AND CONDUCTORS.
- 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

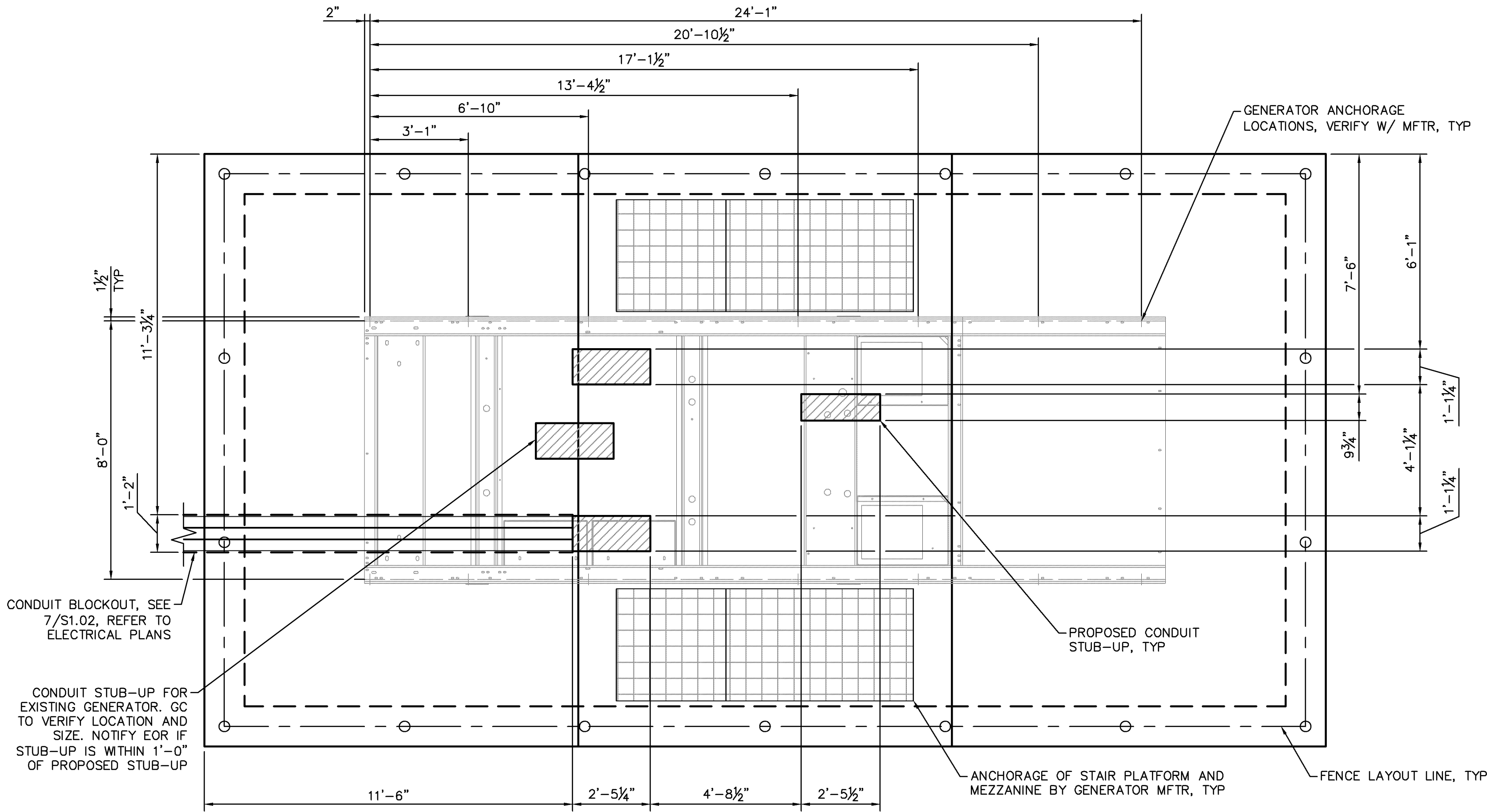
FY24 GENERATOR REPLACEMENT PREPARED FOR IKEA MINNEAPOLIS BLOOMINGTON MN		SHEET NUMBER E301	
EXISTING ONE-LINE DIAGRAM		KIMLEY-HORN	
KHA PROJECT 93659017 DATE 06/12/2024 SCALE AS SHOWN AB AB JDC		DESIGNED BY AB AB JDC	
LIBRARY CERTIFY THAT THIS PLAN OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		DATE 06/12/2024	
KIMLEY-HORN AND ASSOCIATES, INC. 767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114 PHONE: 651-445-4197 WWW.KIMLEY-HORN.COM		DATE 06/12/2024	
REVISIONS		BY	
No.		DATE	



- ### KEY NOTES:

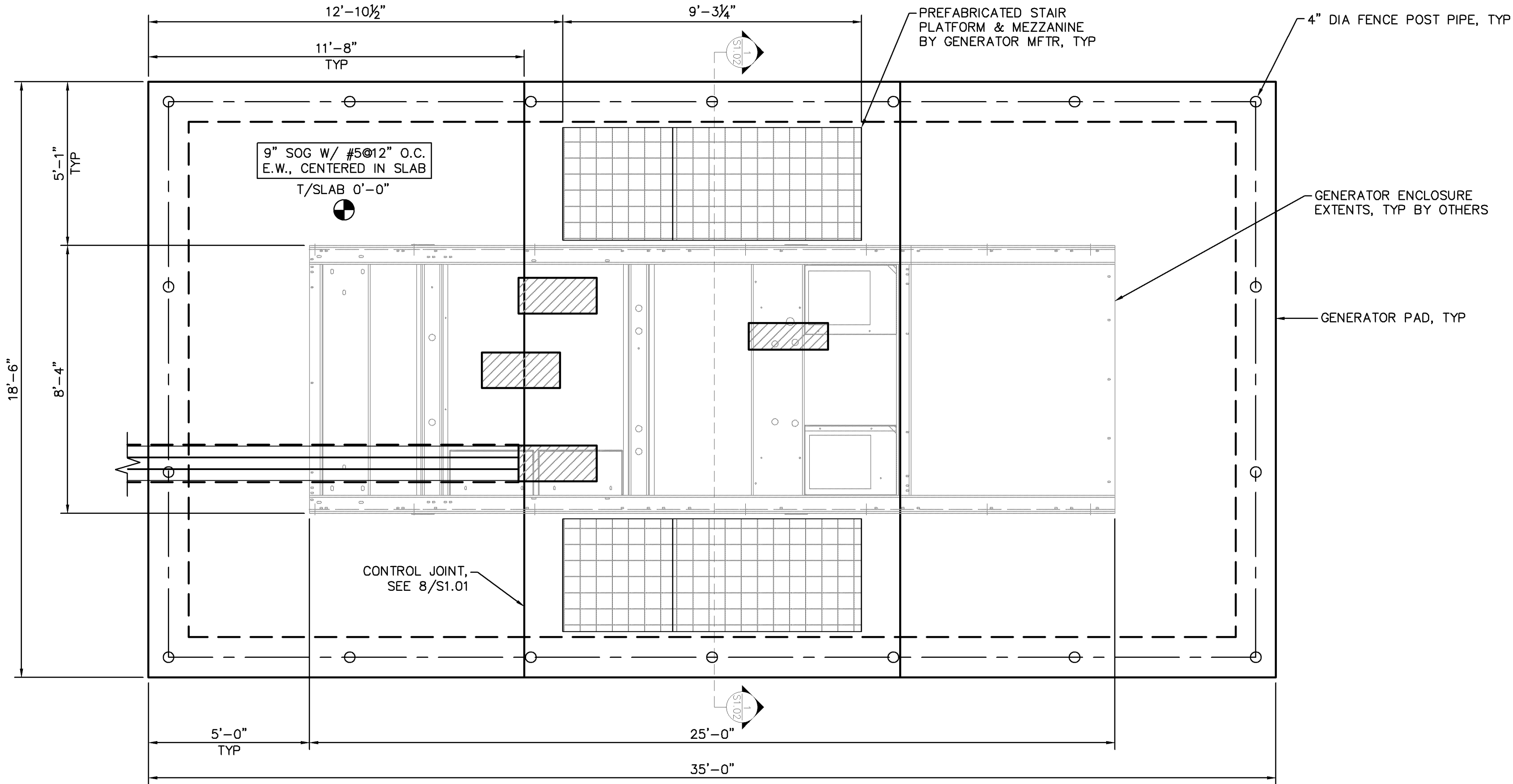
- 1 ONE-LINE DIAGRAM MS-A - EXISTING/NEW
SCALE: N.T.S

FY24 GENERATOR REPLACEMENT PREPARED FOR IKEA MINNEAPOLIS BLOOMINGTON		MIN		PROPOSED ONE-LINE DIAGRAM		KHA PROJECT 936590017		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.		KIMLEY»»Horn © 2024 KIMLEY-HORN AND ASSOCIATES, INC. 767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114 PHONE 651-656-4197 WWW.KIMLEY-HORN.COM		No.		REVISIONS		DATE		BY	
						DATE 06/12/2024		SCALE AS SHOWN		DESIGNED BY AB		DRAWN BY AB		CHECKED BY JDC		DATE 06/12/2024		LIC. NO. 46246	



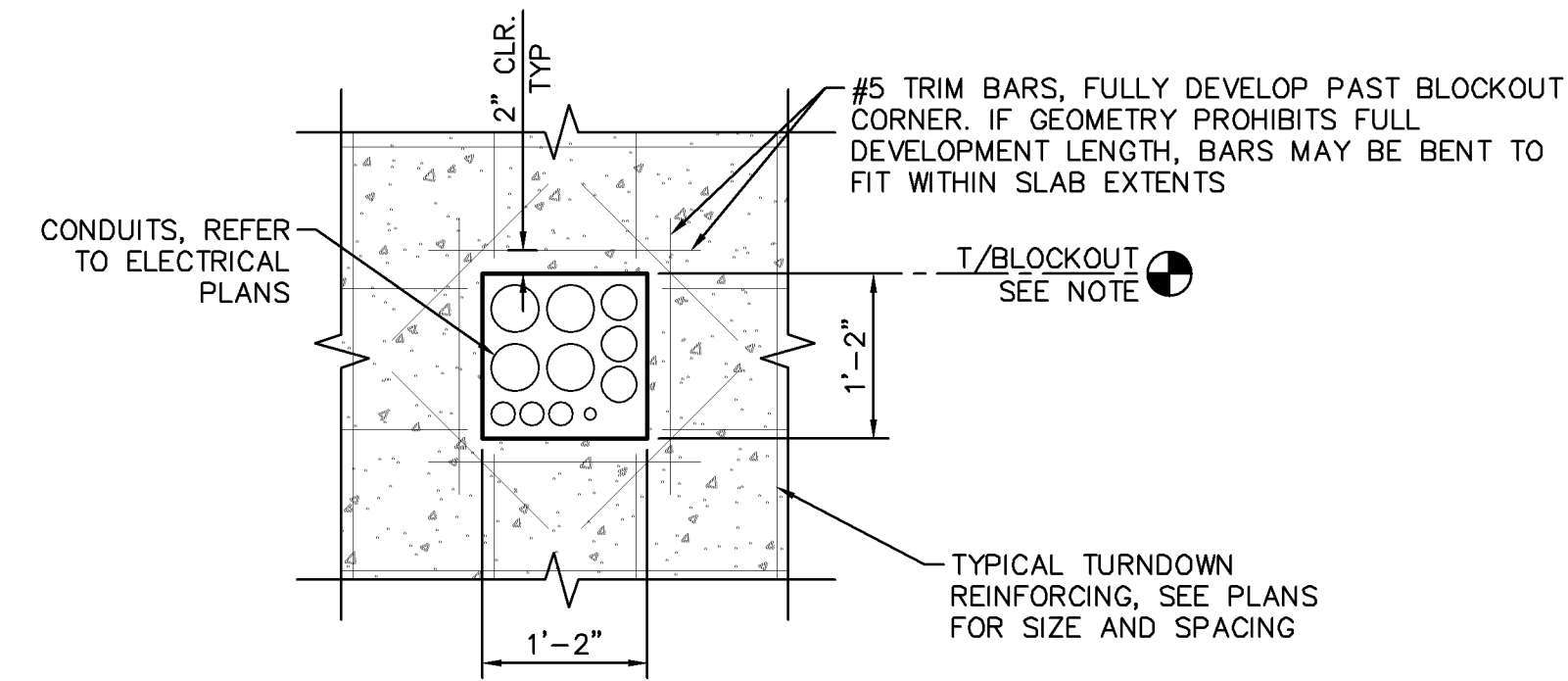
A Building Permit is required for the new generator pad and the fence (if over 7' in height). Structural Engineer plans shall be submitted with permit application.

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 IKEA MINNEAPOLIS		BLOOMINGTON MN	
SHEET NUMBER S1.01		STRUCTURAL EQUIPMENT PAD LAYOUT	
KHA PROJECT 93659017		KHA PROJECT 93659017	
DATE 05/09/2024		DATE 05/09/2024	
SCALE: AS SHOWN		SCALE: AS SHOWN	
DESIGNED BY: CMC		DESIGNED BY: CMC	
DRAWN BY: CMC		DRAWN BY: CMC	
CHECKED BY: ALB		CHECKED BY: ALB	
NEIL A. HORN MINNESOTA 024-8-005		NEIL A. HORN MINNESOTA 024-8-005	
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.		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.	
Kimley»Horn		Kimley»Horn	
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REVISIONS		REVISIONS	
No.		No.	
DATE		DATE	
BY		BY	



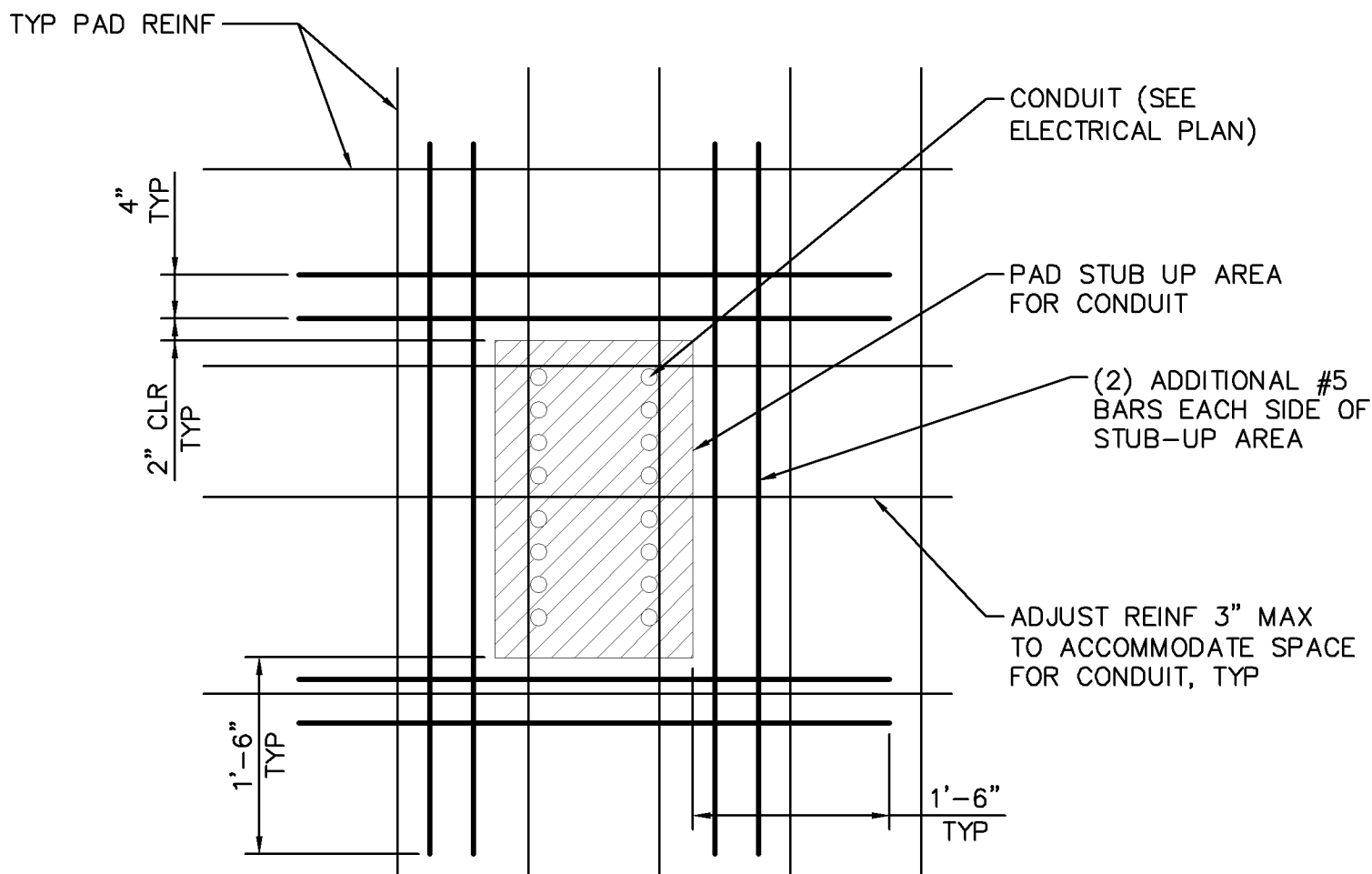
NOTE:
CONDUIT BLOCKOUT TO BE SET 2'-0" MIN BELOW
FINISHED GRADE. CONFIRM CONDUIT ELEVATION
AND LOCATION WITH ELECTRICAL PLANS.

7

TYPICAL CONDUIT BLOCKOUT

S1.02

SCALE: 3/4" = 1'-0"



NOTES:

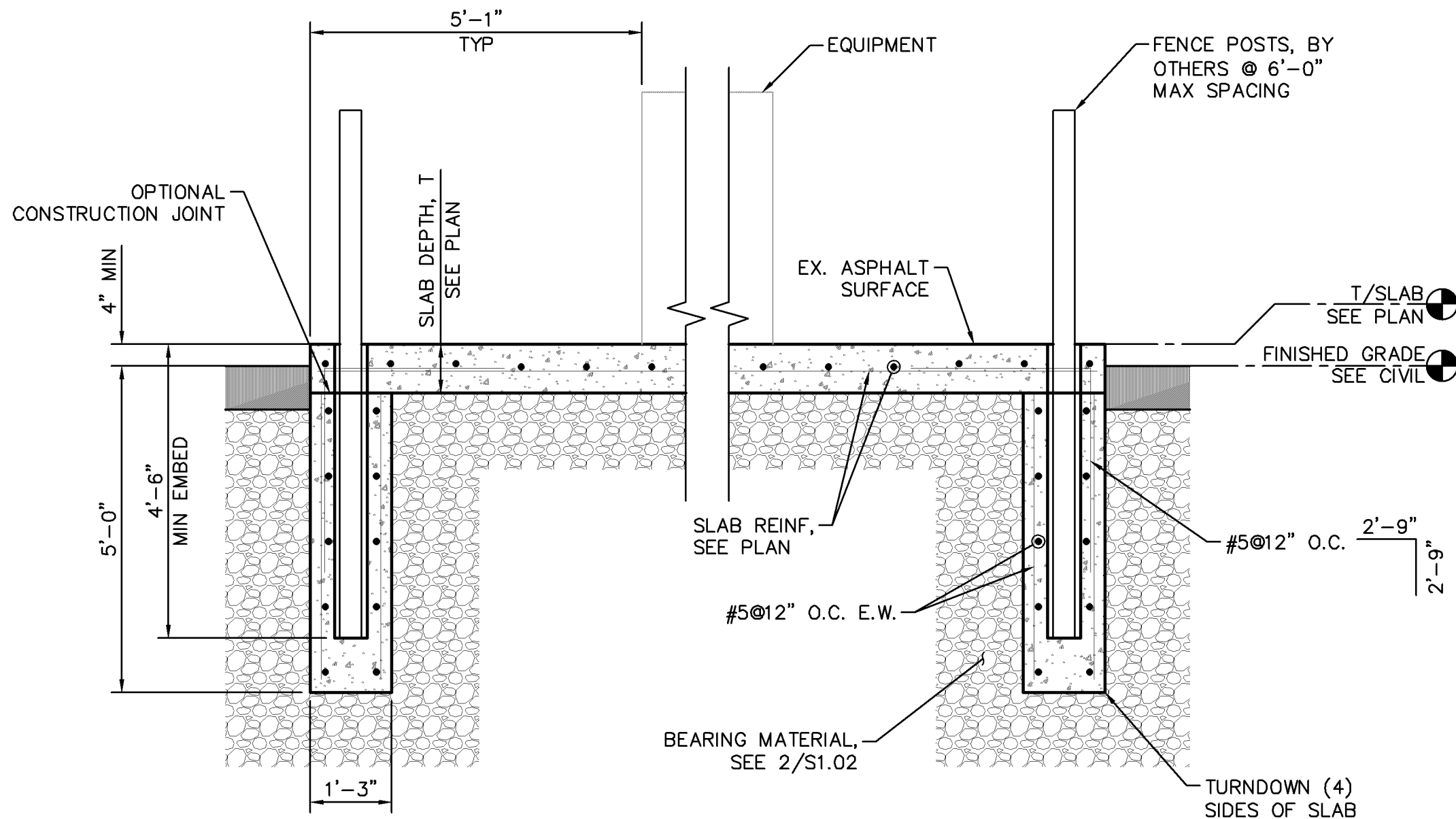
- CONDUIT SHALL BE IN PLACE PRIOR TO CONCRETE POUR.
- CONCRETE POUR SHALL BE CONTINUOUS THROUGHOUT. THERE SHALL BE NO SEPARATE POUR FOR STUB UP AREA.

4

TYP. CONDUIT STUB UP DETAIL

S1.02

SCALE: 3/4" = 1'-0"

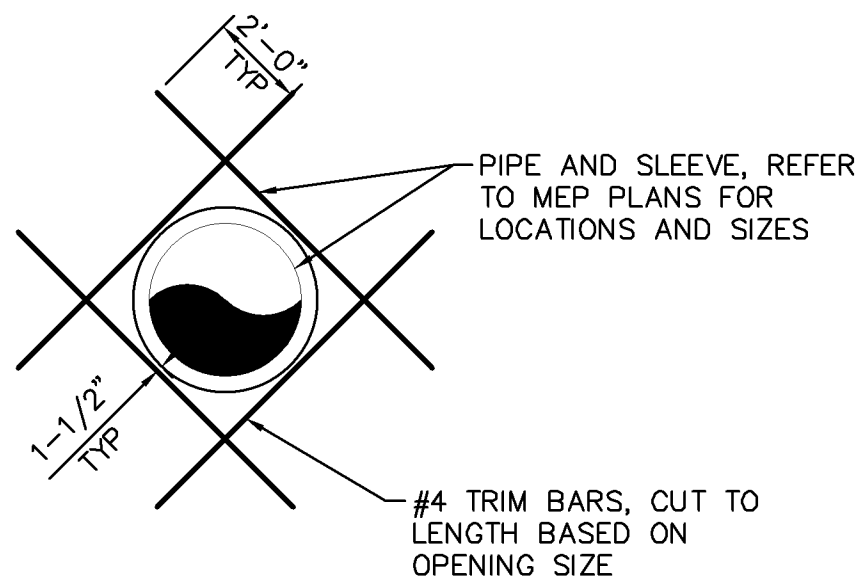


1

TYPICAL SECTION THROUGH EQUIPMENT PAD

S1.02

SCALE: 1/2" = 1'-0"



SINGLE PIPE

NOTES:

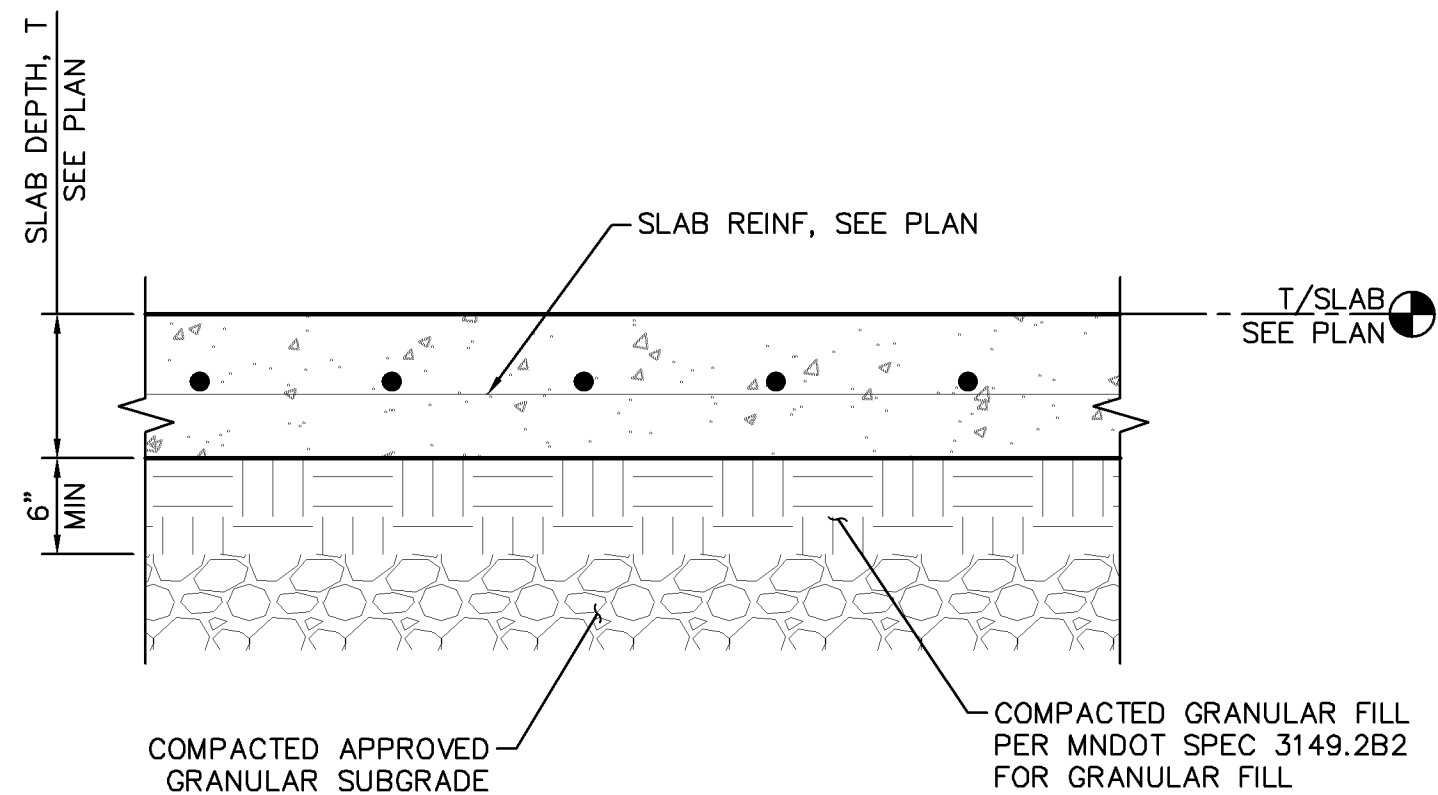
- FOR SINGLE PIPE OPENINGS PLACE TRIM BARS AT 45 DEGREES TO PRIMARY SLAB REINF.
- DO NOT POUR CONCRETE TIGHT TO PIPES, PROVIDE ISOLATION MATERIAL. ISOLATION NOT REQ'D WHERE SHRINKAGE COMPENSATING CONC IS USED.

5

CIRCULAR WALL/SLAB OPENING DETAIL

S1.02

SCALE: 3/8" = 1'-0"

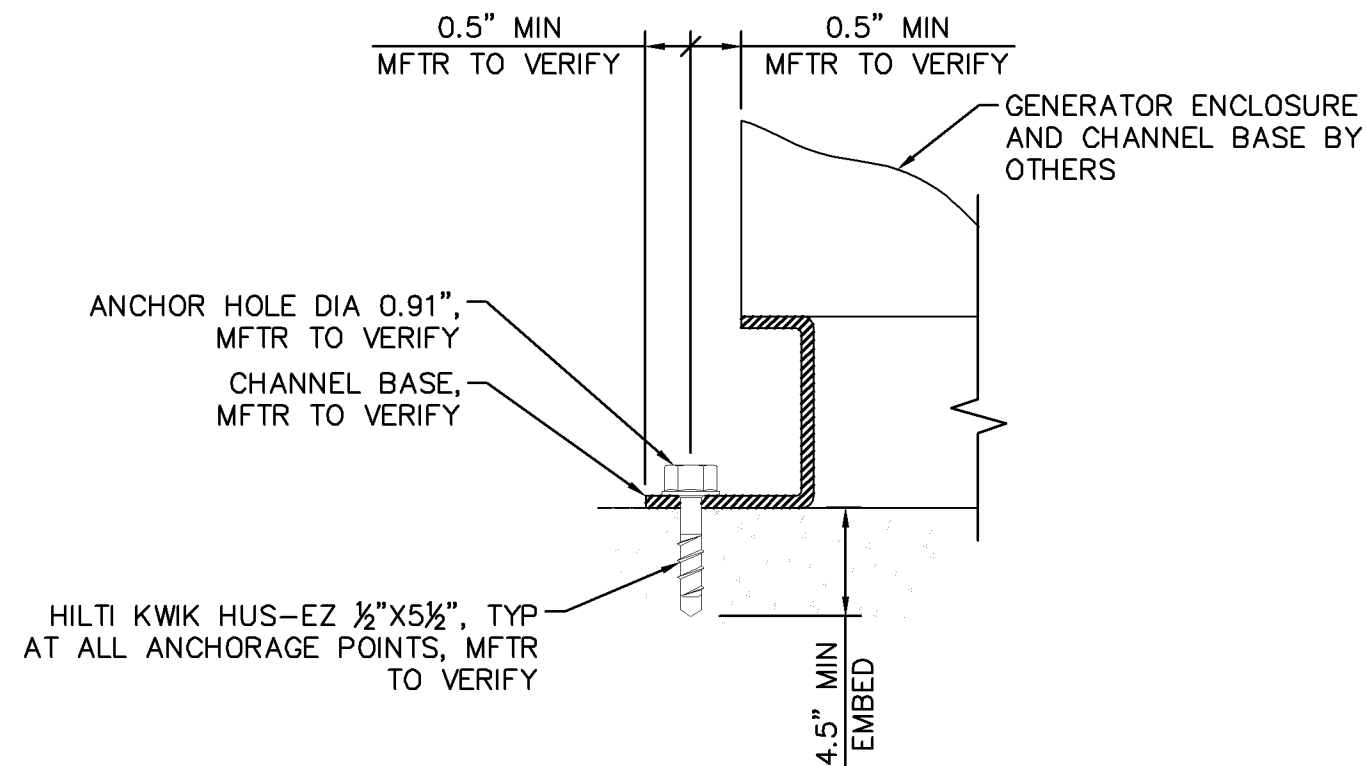


2

TYPICAL SLAB-ON-GRADE

S1.02

SCALE: 1" = 1'-0"

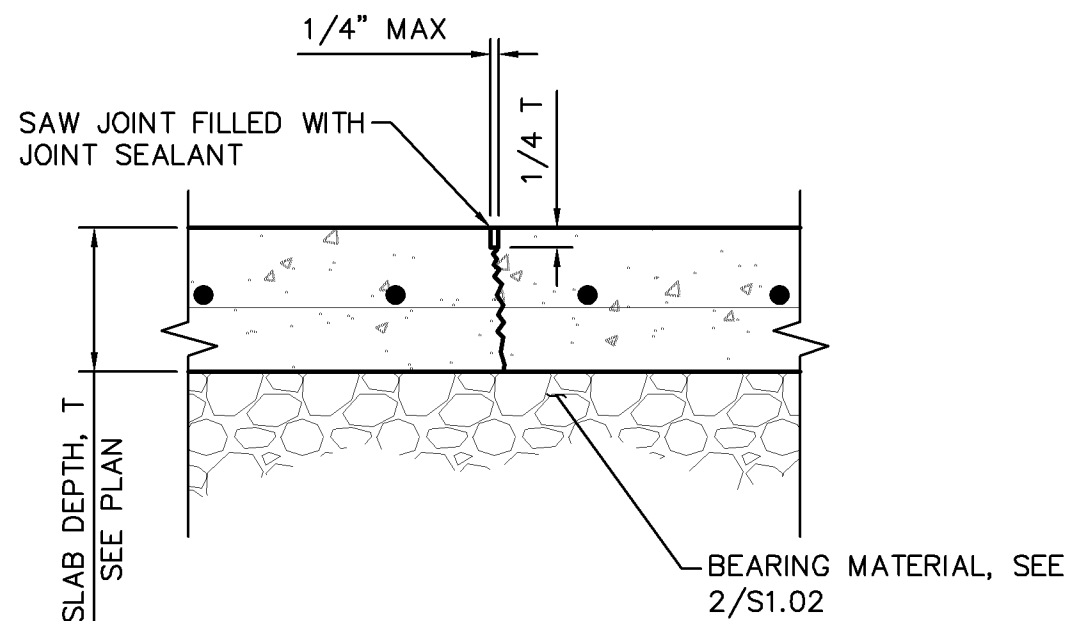


6

TYPICAL EQUIPMENT PAD ANCHORAGE

S1.02

SCALE: NTS



NOTES:

- JOINT SHALL BE SAWED IMMEDIATELY AFTER INITIAL SET, BEFORE CONCRETE BEGINS TO COOL, AS SOON AS CONCRETE SURFACE IS FIRM ENOUGH NOT TO BE DAMAGED BY THE BLADE, AND BEFORE RANDOM DRYING SHRINKAGE CRACKS CAN FORM.
- JOINT SHALL BE CUT A DEPTH EQUAL TO 1/4 OF SLAB THICKNESS.
- MAX JOINT SPACING SHALL BE 15'-0" O.C.

3

TYPICAL CONTROL JOINT

S1.02

SCALE: 1" = 1'-0"

Kimley»Horn

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767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114
PHONE: 651-645-4197
WWW.KIMLEY-HORN.COM

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NEIL A. HORN
05/09/2024
44774

KHA PROJECT
93659017
DATE
05/09/2024
SCALE: AS SHOWN
DESIGNED BY: CMC
DRAWN BY: CMC
CHECKED BY: ALB

**STRUCTURAL
EQUIPMENT PAD
DETAILS**

**FY24 GENERATOR
REPLACEMENT
PREPARED FOR
IKEA MINNEAPOLIS**

**SHEET NUMBER
S1.02**