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ELECTRICAL PLAN

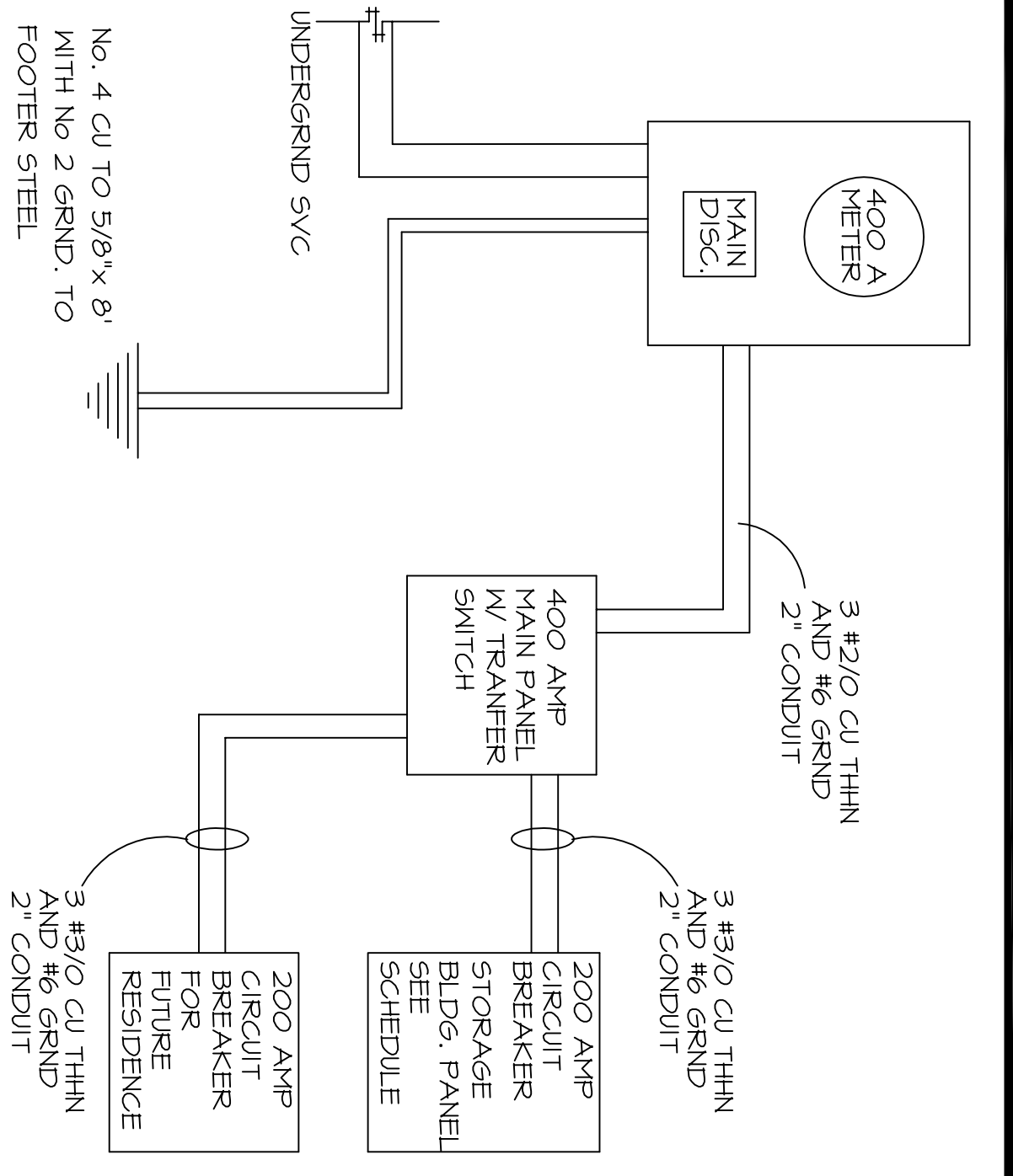
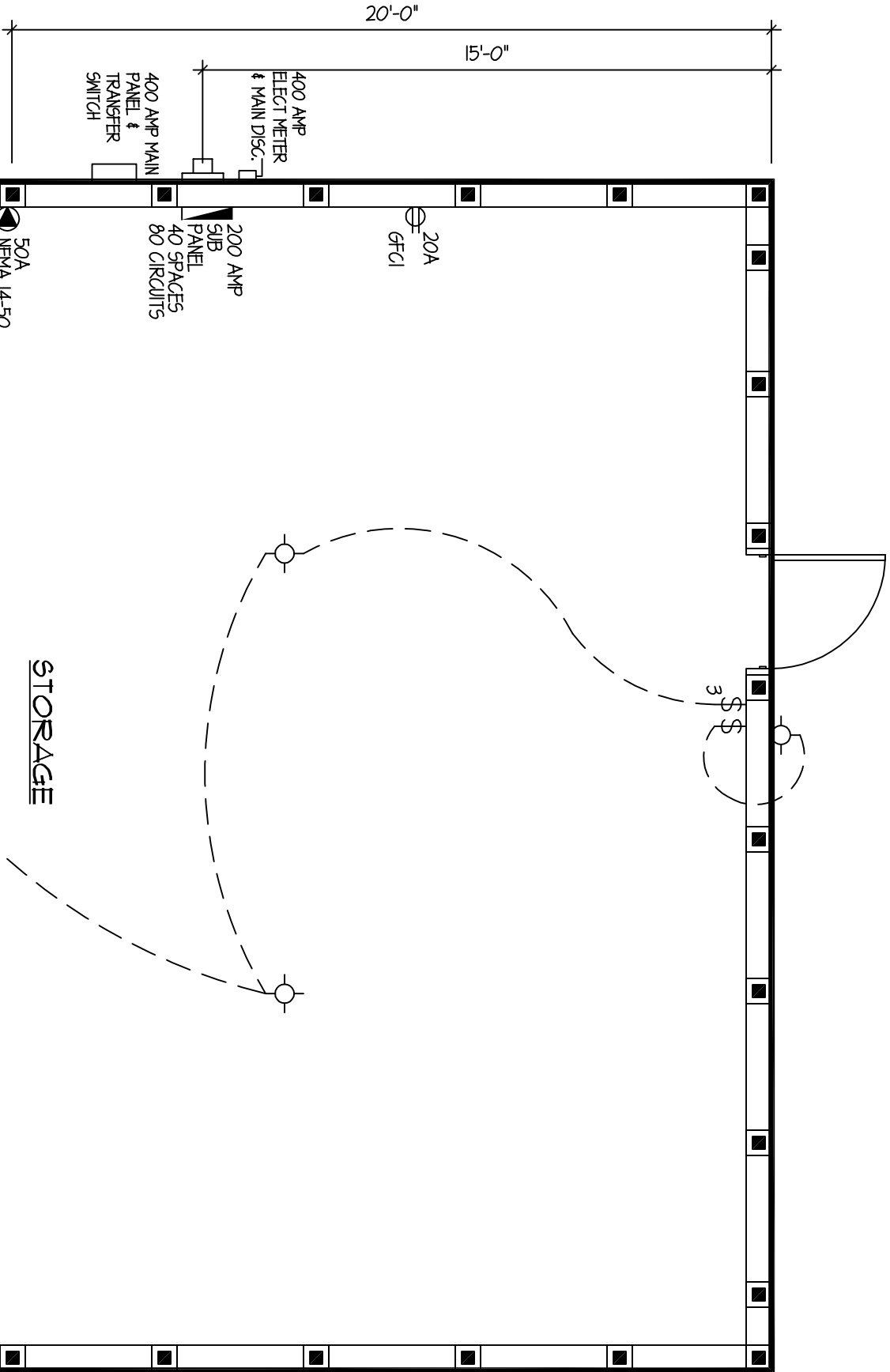
OF 4 SHEETS



**ARCHTYPE
DESIGN
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**AA0003503
AR0015890**












ELECTRICAL RISER

NOT TO SCALE

ELECTRIC CONTRACTOR TO VERIFY ALL PANEL LOADS AND
CIRCUITS PRIOR TO CONSTRUCTION AND THE ENGINEER SHALL BE
NOTIFIED OF ANY DISCREPANCY FROM THE PLANS PRIOR TO
CONSTRUCTION.

ELECTRICAL EQUIPMENT		WATTS
1 CAR CHARGER -	50 AMP	9600
1 WELDER CIRCUIT -	30 AMP	3000
4 GENERAL OUTLET CIRCUITS -	10 AMP	1200
1 LIGHTING CIRCUIT -	5 AMP	1200

TOTAL	15000 W
TOTAL SERVICE LOAD 15000 :- 240V	62.5 AMPs

ELECTRICAL SYMBOL LEGEND	
	DUPLEX RECEPTACLE
	GROUND-Fault INTERRUPT WATER PROOF
	240 VOLT OUTLET
	SWITCH
	3 WAY SWITCH
	SWITCH-CONTROLLED LIGHTING
	WALL MOUNTED LIGHTING
	ELECT. PANEL
	ELECT. METER

ELECTRICAL NOTES:

1. CONTRACTOR SHALL VERIFY WITH FPL THE LOCATION OF SERVICE AND SHALL LOCATE METER AND PANELS AS REQUIRED.
2. ALL WIRE SHALL BE THIN COPPER UNLESS OTHERWISE NOTED.
3. WHERE REQUIRED BY OTHER CODES, SERVICE AND FEEDER CONDUCTORS SHALL BE COPPER OF EQUAL AMPACITY.
4. ALL BRANCH CIRCUITS IN RACEWAY OR NON-METALLIC SHEATHED CABLE.
5. COORDINATE RACEWAY INSTALLATIONS WITH OTHER TRADES PRIOR TO CONSTRUCTION.
6. VERIFY ALL CONDUCTORS AND BREAKERS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
7. PROVIDE DISCONNECT SWITCH OF SIZE AS REQUIRED BY LOAD AND UNITS.
8. PROVIDE NON-REMOVABLE GENERAL DUTY SAFETY SWITCHES AT A/C EQUIPMENT AND AT PLACES NOT VISIBLE FROM CIRCUIT BREAKER PANEL AND AS PER MANUFACTURERS RECOMMENDATIONS.
9. PROVIDE GFI BREAKERS OR OUTLETS FOR ALL BATHROOMS, GARAGE AND EXTERIOR OUTLETS AND AS SHOWN ON PLANS.
10. ELECTRICAL FIXTURES, TRIM AND APPLIANCES SHALL BE UL APPROVED AND AS SELECTED BY OWNER.
11. PROVIDE PRE-WIRED TELEPHONE OUTLETS AS SHOWN ON PLANS.
12. PROVIDE PRE-WIRED TV OUTLETS FOR CABLE AS SHOWN ON PLANS.
13. SHOCK DETECTORS TO BE 20V, INTERCONNECTED W/ BATTERY BACKUP & WIRED ON KITCHEN OR BATHROOM LITS CIRCUITS AND AROUND ALL SWITCHES.
14. AFCI CIRCUIT RECD FOR ALL BEDROOM RECEPTACLES.

STRUCTURAL NOTES - CONCRETE

UNLESS OTHERWISE CALLED FOR IN SPECS OR DRAWINGS, ALL CONCRETE WORK SHALL BE CONFORM TO ALL REQUIREMENTS AND RECOMMENDATIONS OF THE FBC 2023 8th ED. CHAPTER 8, AND ACC 318-14.

CONCRETE TO BE A MIX DESIGNED IN ACCORDANCE WITH ASTM C94/C94M-13 TO ACHIEVE A STRENGTH IN 28 DAYS AS STATED BEFORE A 1.5% ALLOWANCE BE SUBTRACTED. NO MIXES IS TO BE CODED AFTER A MAX. 1.5% ALLOWANCE. PRIOR TO APPROVAL OF THE ENGINEER OR PLANT ENGINEER, PLANT CONTROL SHALL BE REQUIRED. MAX. MIX TIME AT POINT OF DEPOSIT SHALL BE 90 MINUTES. MIN. COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS: (UN)

CONCRETE BALCONY/TERACE/ 4000 PSI

COLUMN & BEAMS - 4000 PSI
 CONCRETE STRENGTH & 28 DAYS SHALL BE MIN. 4000 PSI
 ALL REINFORCING STEEL SHALL BE A603, 60,000 PSI
 CONCRETE SLUMP REQUIRED - 8" TO 10" LAYER
 ALL REBAR SHALL BE 1/2" DIA. 60,000 PSI
 REINFORCING STEEL SHALL CONFORM TO ASTM A603, 60,000 PSI, GRADE 60.
 ALL REINFORCING STEEL SHALL BE WELDED TOGETHER TO PROVIDE A
 CONTINUOUS REINFORCING STEEL THROUGHOUT THE ENTIRE
 STRUCTURE. JOINTS & DISCONTINUITIES FOR REINFORCING PROVIDE CONCRETE
 SHALL BE 12" X 8" X 8" BARS. CLEAR COVER FOR REINFORCING BARS SHALL BE:
 3/4" FOR TOP REINFORCING BARS
 1" FOR BOTTOM REINFORCING BARS

[illegible][illegible][illegible][illegible]

STRICT COMPLIANCE WITH ACI 347. PROVIDE CHAIRS AT ALL CORNERS IN CONCRETE MEMBERS EXPOSED TO VIEW. FORM JOINTS TO REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED Adequate STRENGTH TO SUPPORT ALL DEAD LOADS PLUS A MINIMUM OF 50 PSF. OR ADDITIONAL CONSTRUCTION LOAD. CONTRACTOR SHALL COORDINATE ALL OPENINGS AS REQUIRED FOR OTHER TRADES. OPENINGS WHERE SHOWN ON THE STRUCTURAL DRAWINGS ARE TO IDENTIFY DESIGN INTENT ONLY. THE SPECIFIC DIMENSIONS AND LOCATIONS SHALL BE FURNISHED OR CONFIRMED BY THE TRADE REQUIRING THE OPENING.

REINFORCING STEEL:

REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615-12.
GRADE 60 ($F_y = 60\text{KSI}$).
WELDED WIRE FABRIC SHALL BE 6"x6"-#8x10

THE WELDS SHALL CONFORM WITH A517, A57, REBAR IN BEAMS, COLUMNS, AND SLABS SHALL BE FULLY SECURED PRIOR TO FINAL POUR.

REINFORCING STEEL SHALL BE CLEAN AND FREE FROM FOREIGN DEBRIS, NONMETALLIC COATINGS, THE REINFORCING STEEL SHALL ALSO BE FREE FROM OIL, GREASE, AND OTHER CONTAMINANTS. THE MINIMUM TENSILE STRENGTH SHALL BE 60,000 PSI, THE MINIMUM YIELD STRENGTH SHALL BE 45,000 PSI, AND THE MINIMUM ELONGATION SHALL BE 18 PERCENT. THE STEEL SHALL BE MORE THAN 2% OF THE TOTAL CROSS-SECTIONAL AREA OF ANY BEAM.

REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM COVER:	
ANY CONCRETE POURED AGAINST EARTH	3Ø'
ALL FOOTINGS TOP BOTTOM AND SIDES	3Ø'

BEAMS PRIMARY REINFORCEMENT AND STIRRUPS	15"
TOP AND BOTTOM SIDES	
COLUMNS PRIMARY REINFORCEMENT, TIES AND SPIRALS	15"
SLAB-ON-GRADE BOTTOM COVER	20"

VERTICAL BARS IN CONCRETE COLUMNS MUST BE CONTINUOUS. REBARS SHALL BE LAPPED EQUIVALENT TO 42 DIAMETER OF LARGER SIZE LAPPING BARS OR MINIMUM 30 INCHES OR OTHERWISE AS NOTED. LAPPING BARS MUST

CORNER BARS IN CONCRETE BEAMS MUST LAP WITH MAIN BARS IN BEAMS A LENGTH EQUIVALENT TO 42 BAR DIAMETER OF LARGER SIZE BARS OR VERTICAL COLUMN REINFORCEMENT MUST LAP WITH HORIZONTAL REBARS IN

BEAMS A LENGTH EQUIVALENT TO 15 BAR DIAMETER OF LAPPING
BARS OR MINIMUM 12 INCHES OR OTHERWISE AS NOTED. LAPPING BARS MUST
CORNER BARS IN CONCRETE FOOTERS MUST LAP WITH ALL MAIN FOOTER
BARS OR MINIMUM 4 TWIST TIES.

BE SECURED WITH MINIMUM 3 TIE BARS A LENGTH EQUIVALENT TO 42 BAR DIAMETER OF LARGER SIZE REBAR OR MINIMUM 36 INCHES OR OTHERWISE AS NOTED. LAPING BARS SHALL BE STAGGERED. VERTICAL COLUMN REINFORCEMENT MUST LAP WITH HORIZONTAL REBARS IN

FOOTER AND SLAB A LENGTH EQUIVALENT TO 15 BAR DIAMETER OF LARGER SIZE LAPPING BARS OR MINIMUM 12 INCHES OR OTHERWISE AS NOTED. LAPPING LABS MUST BE DESCRIBED BY MINIMUM 3 TIESET TIE.

REINFORCED UNIT MASONRY NOTES

STRUCTURE IS BASED ON RATIONAL ANALYSIS PER FBC
MASONRY BLOCK:
ALL BLOCK WALLS SHALL BE TWO-CELL HOLLOW CONC.

LABORATORY REGULAR SIZE BLOCK TRANS IN CONFORMANCE W/ ASTM C90 & FEB 2017 6TH ED. CHAPTER 21, NI OR NII, PROVIDE PRECAST LINELS AS NECESSARY. SHALL HAVE A MINIMUM PRISM STRENGTH OF

C1314-07. UNITS SHALL BE A MINIMUM OF 48 BLOCKS
SHALL BE PLACED USING RUNNING BOND ON LAY-UP
MASONRY WALLS TO BTM. OF THE BEAMS BEFORE

GRROUT:
GRROUT USED TO FILL MASONRY CELLS SHALL COMPLY W/
ASTM C-416, & SHALL BE OF PEA ROCK PUMP MIX AND

AT 28 DAYS THE GROUT MIX SHALL HAVE A MAX. 3/8" COARSE AGGREGATE, & SHALL BE PLACED W/ A SLUMP OF 8" TO 10". PLACE GROUT IN ACCORDANCE WITH FBC

MORTAR: IN ACCORDANCE WITH FBC 2011 - 6th

PROJECT. MORTAR SHALL BE PROPORTIONED & MIXED ACCORDING TO THE MIXTURE PROPORTIONS LISTED ON THE MIXTURE DESIGN REPORT. MORTAR JOINTS SHALL BE 3/8" THICK. REMOVE MORTAR PROTRUSIONS THAT EXTEND BEYOND THE FACE OF THE CONCRETE.

PORTER TO CURE BEFORE PLACING GROUT.
REINFORCEMENT:
CONCRETE MASONRY BLOCKS SHALL BE INSTALLED WITH

MASONRY JOINT REINFORCEMENT AT OTHER COURSE.
REINFORCEMENT SHALL BE CONTINUOUS WITH (?) BLOCK
WIDTH LAPSE AT ENDS AND SHALL BE INSERTED INTO
CELLS OR THE COLUMN MIN. 4'

THE MINIMUM SIZE OF HORIZONTAL JOINT REINFORCEMENT SHALL BE GAUGE 9 "LADDER" TYPE REINFORCEMENT.

UNIT MASONRY SHALL BE BY PROFESSIONAL ENGINEER

MINIMUM IF (1) • 5 VERTICAL AT EACH CORNER, EACH SIDE OF WALL, OPENINGS, AND MAXIMUM OF 4'-0" THEREAFTER SEE PLAN FOR LOCATION AND SIZE OF REINFORCEMENT

REINFORCING BARS SHALL BE NEW BILLET STEEL PER
AISC GRADE 60, LAP REINFORCING AS NOTED ON
PLANS.

THE BEAM AND FILLED CELLS SHALL BE PLACED IN
SEPARATE LIFTS AND CONSOLIDATED AS REQUIRED TO
COMPLETELY FILL EACH CELL. CLEAN OUT OPENINGS
SHALL BE PROVIDED AT THE BOTTOM OF ALL FILLED

CELLS FOR INSPECTION.
CLEANOUT OPENINGS SHALL BE PROVIDED AT THE
BOTTOM OF GROUTED CELLS AT EACH LIFT OVER 4'-0".
EACH CLEANOUT SHALL BE SEALED AFTER CLEANING.

ELECTRICAL PLAN

SCALE 1/4" = 1'-0"

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STEVES S.	
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JOHN L.	
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2.15.2024	
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ELECTRICAL PLAN

OF 4 SHEETS

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2.1.2024	
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SITE PLAN	
FOUNDATION PLAN	
FLOOR PLAN	
OF	
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SHEETS	