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POWER DEVICES

SINGLE RECEPTACLE

DUPLEX RECEPTACLE

FOURPLEX RECEPTACLE

A RECEPTACLE MODIFIER)

DUPLEX DEDICATED RECEPTACLE

SPECIAL RECEPTACLES (LETTER NEXT TO DEVICE IS

TV DUPLEX RECEPTACLE MOUNTED AT 18" AFF

COMBINATION DUPLEX/USB RECEPTACLE

FLOOR MOUNTED DUPLEX RECEPTACLE

CEILING MOUNTED DUPLEX OUTLET

SINGLE POLE TOGGLE SWITCH

THREE WAY TOGGLE SWITCH

GANG LIGHT SWITCH

(P DENOTES PILOT LIGHT)

SINGLE POLE KEYED TOGGLE SWITCH

THREE WAY KEYED TOGGLE SWITCH

SINGLE POLE THERMAL OVERLOAD SWITCH

CEILING MOUNTED MOTION SENSOR SWITCH

WALL MOUNTED MOTION SENSOR SWITCH

(LOWER CASE LETTERS DENOTES SWITCHING)

JUNCTION BOX

DIMMER

SURFACE RACEWAY

FLOOR MOUNTED FOURPLEX RECEPTACLE

13

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12

11

	LIGHTING
	2' x 4' FLUORESCENT FIXTURE
	RECESSED DOWNLIGHT
lacksquare	RECESSED WALL WASHER
	1' x 4' FLUORESCENT FIXTURE
0	SURFACE MOUNTED DOWNLIGH MOUNTED LANDSCAPE LIGHT
	STRIP LIGHT WITH JUNCTION BO
ያ 🖵	WALL MOUNTED FIXTURE
¢	PENDANT
	TRACK LIGHT WITH HEADS
$\Box \underline{\nabla}$	WALL MOUNTED FIXTURE
	SURFACE OR PENDANT MOUNT

EXIT LIGHT

RACEWAY LEGEND

EMERGENCY BATTERY-PACK

EMERGENCY FIXTURES.

	EQUIPMENT	<u>A-2,4</u>
D	DISCONNECT SWITCH	
₽	FUSED DISCONNECT SWITCH	O
M	COMBINATION MOTOR STARTER	
Ń	MOTOR	
	ELECTRICAL PANEL	
	METER	
Ţ	GROUND	
□-⁄-	FUSE & SWITCH	СОМ
\frown	CIRCUIT BREAKER	∇
GFL	GROUND FAULT INTERUPTER BREAKER	▼ ▼
\bigcirc	MECHANICAL EQUIPMENT IDENTIFICATION TAG	7_7/_
T	TRANSFORMER	
XXXX	ELECTRICAL PANEL	

/ 0 \	MOTOR CONNECTION
CON	MUNICATIONS
▽ ▼ ▼	DATA OUTLET TELEPHONE OUTLET COMBINATION TELE/DATA OU

CONDUIT UP

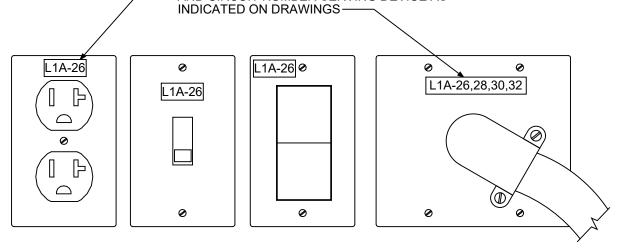
CONDUIT DOWN

OR BELOW GRADE

CEILINGS ARE NOT PRESENT.

TELEPHONE BACKBOARD

- LABEL SHALL INDICATE SERVING PANELBOARD AND CIRCUIT NUMBER SERVING DEVICE AS



TYPICAL DEVICE COVERPLATE IDENTIFICATION

SCALENO SCALE

LABELS SHALL INDICATE SERVING BRANCH CIRCUIT PANELBOARD AS NOTED ON THE DRAWINGS AS WELL AS BRANCH CIRCUIT SERVING DEVICE. EX. "L1A-26" INDICATES PANEL L1A, CIRCUIT 26. LABELS SHALL BE SELF-ADHESIVE TYPE, DYMO LABELS OR APPROVED EQUAL WITH MIN. 1/8" HIGH LETTERS VERIFY WITH BUILDING ENGINEER WHICH OF THE ABOVE PRACTICES IS ACCEPTABLE. PROVIDE BUILDING STANDARD DEVICES UNLESS OTHERWISE DIRECTED BY ARCHITECT, DEVICES ARE SHOWN AS EXAMPLES ONLY.

15

14

13

12

11

10	9	8	7	6	5	4

GHT OR GROUND зох

SURFACE OR PENDANT MOUNTED LINEAR FIXTURE

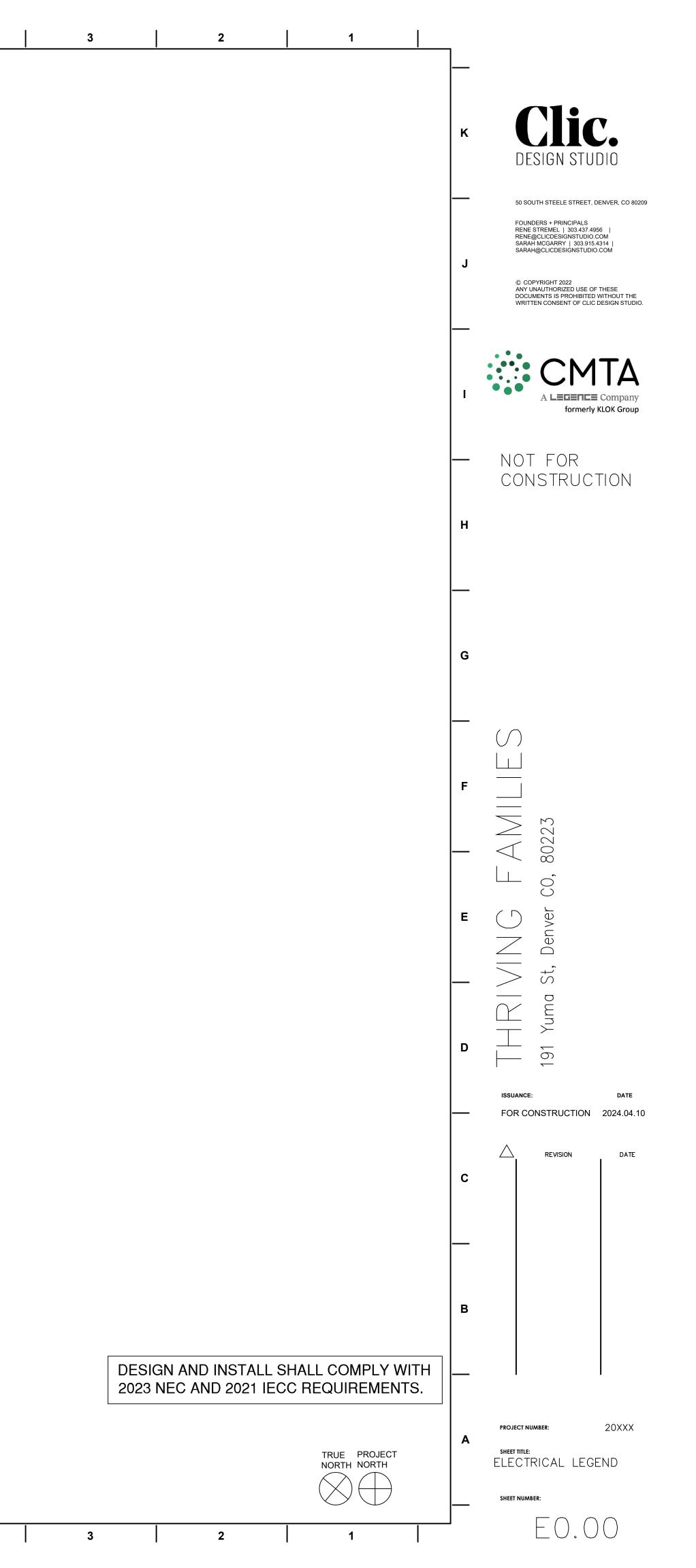
FIXTURES SHADED OR MAKED "EM" ARE

BRANCH CIRCUIT HOMERUN TO PANELBOARD INDICATED. NUMBER OF ARROWS INDICATES NUMBER OF UNGROUNDED CONDUCTORS WHICH EACH REQUIRING A SEPERATE NEUTRAL.

CONDUIT RUNS UNDERFLOOR

CONDUIT RUN CONCEALED IN WALLS OR CEILING , OR EXPOSED WHEN

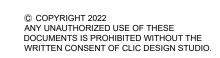
OUTLET



ECTRICAL SPECIFICATIONS	B. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN CHARACTER. LOCATIONS SHOWN FOR ELECTRICAL	TOP OF THE CEILING GRID (TO ACCOMMODATE LIGHT FIXTURES).
GENERAL REQUIREMENTS	EQUIPMENT, DEVICES, CIRCUITING, ETC. ARE APPROXIMATE. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT DEVICE LOCATIONS WITH ARCHITECTURAL AND INTERIOR DESIGN PLANS, ELEVATIONS,	R.PROVIDE TYPEWRITTEN, UPDATED PANEL DOOR DIRECTORIES FOR ALL AFFECTED PANELS, REFLECTING ALI CIRCUITS WITH THEIR ACCURATE DESTINATIONS. CLEARLY MARK JUNCTION BOXES IN CEILING SPACE WITH
A.ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION.	DETAILS, AND MILLWORK SHOP DRAWINGS. ALL DIMENSIONS ARE TO BE TAKEN OFF OF ARCHITECTURAL PLANS OR MANUFACTURER'S SHOP DRAWINGS.	REVISED CIRCUIT NUMBERS. (THIS APPLIES TO BOTH SIDES OF DEMISING WALLS.) PROVIDE NEW ETCHED PLASTIC LAMINATED LABELS TO REPLACE ANY DAMAGED, MISLABELED, TEMPORARY OR OTHERWISE ILLEGIE EXISTING IDENTIFICATION LABELS FOR ALL DISTRIBUTION FOURPMENT AFFECTED BY THIS CONTRACT. PROV
B. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR VERIFICATION OF EXISTING JOB CONDITIONS PRIOR TO BID.	C. VERIFY IN FIELD AND ENSURE ALL ELECTRICAL CLEARANCES FOR ELECTRICAL EQUIPMENT ARE MAINTAINED PER NEC AND APPLICABLE LOCAL CODES REQUIREMENTS, COORDINATE WITH OTHER TRADES FOR SPACE	EXISTING IDENTIFICATION LABELS FOR ALL DISTRIBUTION EQUIPMENT AFFECTED BY THIS CONTRACT. PROV FOR PERMANENT ATTACHMENT TO EQUIPMENT WITH RIVETS OR SCREWS. SELF ADHESIVE TYPE IS NOT ACCEPTABLE.
NO ADDITIONAL COSTS SHALL BE AWARDED TO THE SUCCESSFUL CONTRACTOR OR THEIR SUBCONTRACTORS, AFTER BIDS HAVE BEEN SUBMITTED AND CONTRACTS AWARDED, FOR FAILURE TO VERIFY EXISTING JOB	CONFLICTS PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT. DO NOT SCALE OFF OF ELECTRICAL PLANS.	
CONDITIONS. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR ALTERNATIVE METHODS OF INSTALLATION (3) DAYS MINIMUM PRIOR TO BIDDING OF JOB. TO ALLOW FOR ISSUANCE OF CLARIFICATIONS.	D. WHEN DIMENSIONS ARE SHOWN ON ELECTRICAL PLANS OR DETAILS, THESE DIMENSIONS ARE TO BE FIELD VERIFIED BY THE ELECTRICAL CONTRACTOR AGAINST FIELD CONDITIONS, INSTALLATION REQUIREMENTS OF	3. TESTING
C. THE CONTRACTOR SHALL VISIT AND INSPECT THE SITE AND SHALL ASCERTAIN CONDITIONS UNDER WHICH THE	OTHER TRADES, AND THE MANUFACTURER'S SUBMITTALS FOR EQUIPMENT TO BE INSTALLED. SHOULD ANY CONFLICTS ARISE, WHICH CANNOT BE EASILY RESOLVED IN THE FIELD WITHOUT CHANGING THE DESIGN INTENT, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.	A.EVERY PART OF THE INSTALLATION SHALL BE TESTED, OPERATED AND LEFT IN PERFECT WORKING ORDER. SCHEDULE ACCEPTANCE TESTS TO SUIT THE CONVENIENCE OF THE TENANT.
WORK MUST BE PERFORMED INCLUDING THE HANDLING OF MATERIALS, SECURITY AND LIMITING FIELD DIMENSIONS. ANY ADDITIONAL COSTS RESULTING FROM CONTRACTOR'S FAILURE TO DO SO SHALL BE	E.FOR SITE WORK, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR LOCATING, VERIFYING, AND AVOIDING ANY	B. TEST ALL WIRES AND CABLES INSTALLED UNDER THIS CONTRACT WITH A 1,000 VOLT MEGOHMMETER. FURN
CONTRACTOR'S RESPONSIBILITY AND SHALL BE CONTRACTOR'S RESPONSIBILITY.	NEW AND EXISTING UNDERGROUND SERVICES/UTILITIES.	THE ENGINEER A COPY OF THE RESULTS TOGETHER WITH AN OUTLINE OF THE METHOD USED. IF IN THE OPINION OF THE ENGINEER, ANY READINGS ARE LOWER THAN REQUIRED BY GOOD PRACTICE OR APPLICABI CODES PROMPTLY REPLACE THE MATERIALS OR EQUIPMENT INVOLVED AND RE-TEST.
PARTICULARLY DEMOLITION, ARCHITECTURAL AND MECHANICAL, TO DETERMINE ANY ADDITIONAL WORK THAT MAY BE REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION AND SHALL INCLUDE AN	F. THE ELECTRICAL CONTRACTOR OR COMPANIES SUBCONTRACTED UNDER THEIR SCOPE OF WORK SHALL ARRANGE FOR ALL INSPECTIONS WHEN THEY BECOME DUE. ALL WORK PERFORMED UNDER THIS CONTRACT	[NOTE TO SPEC WRITER: REMOVE NEXT 3 SECTIONS IF NO NEW PANELBOARDS OR DISTRIBUTION]
ALLOWANCE FOR THIS WORK IN THEIR BID.	SHALL REMAIN EXPOSED TO VIEW UNTIL APPROVED BY THE INSPECTION AUTHORITY.	C.SHORT-CIRCUIT STUDY
E. ALL WORK SHALL BE DONE IN COMPLIANCE WITH ALL NATIONAL CODES, INCLUDING THE NEC, NFPA, IBC, IECC AND ALL APPLICABLE LOCAL CODES AND ORDINANCES, AND OTHER AUTHORITIES HAVING JURISDICTION OVER ELECTRICAL CONSTRUCTION WORK AND THE PROJECT. FILE PLANS WITH AND OBTAIN APPROVALS FROM	G.ELECTRICAL ITEMS AFFECTED BY REMODEL WORK ARE SHOWN ON DRAWINGS ALONG WITH EXISTING	THE ELECTRICAL EQUIPMENT MANUFACTURER SHALL PERFORM A SHORT-CIRCUIT ANALYSIS OF THE SPECIFIE ELECTRICAL POWER DISTRIBUTION SYSTEM. THIS ANALYSIS SHALL INCLUDE:
MUNICIPAL AGENCIES. ALL REQUIRED PERMITS AND CERTIFICATIONS OF INSPECTION SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR AND PERTINENT CERTIFICATES SHALL BE DELIVERED TO THE TENANT'S	ELECTRICAL INSTALLATION. EXISTING ELECTRICAL SHOWN IS NOT NECESSARILY ALL-INCLUSIVE.	(1)CALCULATION OF THE MAXIMUM RMS SYMMETRICAL THREE-PHASE SHORT-CIRCUIT CURRENT AVAILABLE
REPRESENTATIVE BEFORE FINAL BILLING. F. TENANT REGULATIONS	[NOTE TO SPEC WRITER: DELETE THE FOLLOWING SECTION FOR NEW CONSTRUCTION.]	SIGNIFICANT LOCATIONS IN THE ELECTRICAL SYSTEM. THE RESULTS SHALL REPRESENT THE HIGHEST SHORT-CIRCUIT CURRENTS TO WHICH THE EQUIPMENT MIGHT BE SUBJECTED UNDER THE REPORTED
(1)ALL WORK SHALL BE IN COMPLIANCE WITH ALL BUILDING REGULATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN FROM THE BUILDING MANAGER A COPY OF ALL BUILDING RULES AND		SYSTEM CONDITIONS. THE SHORT-CIRCUIT CURRENTS SHALL BE CALCULATED WITH THE AID OF A DIGITA COMPUTER. APPROPRIATE MOTOR SHORT-CIRCUIT CONTRIBUTION SHALL BE INCLUDED IN THE CALCULATION.
REGULATIONS. CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH COMPLYING WITH SUCH REGULATIONS IN THEIR BID.	(1)THE CONTRACTOR SHALL INCLUDE ALL COSTS FOR REMOVALS AND RELOCATIONS IN THE CONTRACT. THESE COSTS SHALL INCLUDE WORK DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS WITH ALLOWANCES FOR NORMAL UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO	(2) THE STUDY SHALL INCLUDE ALL PORTIONS OF THE ELECTRICAL DISTRIBUTION SYSTEM FROM THE NORM
(2) ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE FINISH SPECIFICATIONS (ELECTRICAL CONTRACTOR SHALL VERIFY IF SPECIFICATIONS ARE AVAILABLE IN THE MANAGEMENT OFFICE). DRAWINGS, AND LATEST	CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN SPECIFIC CASES CONSIDERED JUSTIFIABLE BY THE ENGINEER OR ARCHITECT.	SOURCES OF POWER THROUGHOUT THE LOW-VOLTAGE DISTRIBUTION SYSTEM. NORMAL SYSTEM OPERATING METHOD, AND OPERATIONS WHICH COULD RESULT IN MAXIMUM FAULT CONDITIONS SHALL B THOROUGHLY COVERED IN THE STUDY.
SHALL VERIFY IF SPECIFICATIONS ARE AVAILABLE IN THE MANAGEMENT OFFICE), DRAWINGS, AND LATEST REVISIONS ON CONTRACT DOCUMENTS FOR ELECTRICAL WORK. ENSURE ALL NEW EQUIPMENT IS PROVIDED AND INSTALLED PER BUILDING STANDARD REQUIREMENTS.	[NOTE TO SPEC WRITER: SELECT APPROPRIATE PARTY.]	(3)THE STUDY SHALL BE CALCULATED FROM THE UTILITY METER TO THE UNIT SUBSTATION/SERVICE SWITCHBOARD TO THE LOWEST OVERCURRENT DEVICE OR EQUIPMENT ON THE ELECTRICAL DISTRIBUTION
(3) THE CONTRACTOR SHALL NOT DRILL HOLES INTO EXISTING SLABS OR STRUCTURAL MEMBERS FOR THE	(2) ALL PRESENT ELECTRICAL MATERIAL AND EQUIPMENT WHICH IS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF AND SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR.	SYSTEM. STUDY SHALL MEET LOCAL AHJ REQUIREMENTS AND INCLUDE NO LESS THAN WHAT IS SHOWN I DESIGN DOCUMENTS. THE UTILITY CONDUCTORS SHALL NOT BE USED FOR CALCULATIONS.
PURPOSE OF SUPPORTING ANY LOADS, OR ROUTING ANY FEEDERS, UNLESS WRITTEN APPROVAL IS OBTAINED FROM ENGINEER.	COORDINATE WITH OWNER FOR ALL ELECTRICAL EQUIPMENT BEING REMOVED AND NOT REUSED. VERIFY, PRIOR TO DEMOLITION, IF EQUIPMENT IS TO BE DISPOSED OF OR STOCKPILED.	(4)AN EVALUATION OF THE ADEQUACY OF THE SHORT-CIRCUIT RATINGS OF THE ELECTRICAL EQUIPMENT SUPPLIED BY THAT MANUFACTURER.
(4) THE CONTRACTOR SHALL REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED IN THE PERFORMANCE OF THIS CONTRACT.	(3) THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES	[NOTE TO SPEC WRITER: SELECT APPROPRIATE PARTY.]
G.SHOP DRAWINGS	WITH THE NEW ARCHITECTURAL AND ELECTRICAL LAYOUTS. ALL WORK WHICH IS NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY AND REMOVED IN ITS ENTIRETY.	(5)PROVIDE ELECTRONIC COPIES OF THE SHORT-CIRCUIT ANALYSIS FOR THE ENGINEER'S APPROVAL WITHIN DAYS OF CONTRACT AWARD. DOCUMENTATION SHALL INCLUDE THE FOLLOWING:
(1) SUBMIT "SHOP DRAWINGS" AND "SAMPLES" FOR REVIEW. SHOP DRAWINGS SUBMITTAL SHALL INCLUDE	(4) ALL RACEWAYS WHICH BECOME EXPOSED BEYOND FINISHED SURFACES BECAUSE OF THE ALTERATION	 INPUT DATA, CALCULATED RESULTS, AND AN EXPLANATION OF HOW TO INTERPRET THE PRINTOUTS. A ONE-LINE DIAGRAM IDENTIFYING ALL BUS LOCATIONS AND THE MAXIMUM AVAILABLE SHORT-CIRCUIT CURRENT AT EACH BUS.
DIMENSIONS, THICKNESS, PROFILES, TYPE OF MATERIAL, METHOD OF FASTENING, RELATION TO ADJACENT WORK AND ALL OTHER NECESSARY DETAILS TO FULLY DESCRIBE THE ITEM SUBMITTED. ALL SHOP DRAWINGS AND CUTS WILL BE SIGNED "REVIEWED" FOR DESIGN APPEARANCE ONLY. THE CONTRACTOR	WORK SHALL BE REMOVED AND REPOUTED BEHIND THE FINISHED SURFACES. REMOVE ABANDONED SURFACE MOUNTED CONDUITS.	 A BUS-TO-BUS LISTING OF THE MAXIMUM AVAILABLE SHORT-CIRCUIT CURRENT EXPRESSED IN RMS SYMMETRICAL AMPERES AND THE X/R RATIO OF THE FAULT CURRENT.
SHALL ASSUME ALL RESPONSIBILITY FOR ERRORS ON THEIR DRAWINGS.	(5)PORTIONS OF FEEDER LINES THAT HAVE TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK BUT ARE REQUIRED TO CONTINUE TO FUNCTION SHALL BE CUT AT CONVENIENT LOCATIONS,	 A TABLE OF EQUIPMENT SHORT-CIRCUIT RATINGS VERSUS CALCULATED SHORT-CIRCUIT CURRENT VALUES.
(2) WHERE THE TERM "OR EQUIVALENT" IS USED, IT SHALL BE UNDERSTOOD THAT THE REFERENCE IS MADE TO THE RULING AND JUDGEMENT OF THE ENGINEER AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.	REROUTED AND RECONNECTED FOR CONTINUATION OF THEIR PRESENT FUNCTION. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING FEEDERS IN ALL RESPECTS, INCLUDING CONDUCTOR CAPACITY,	 AN ANALYSIS OF THE RESULTS IN WHICH ANY INADEQUACIES SHALL BE CALLED TO THE ATTENTION OF ENGINEER AND RECOMMENDATIONS MADE FOR IMPROVEMENTS. THESE RECOMMENDATIONS SHALL INCORPORATED BY THE ELECTRICAL EQUIPMENT MANUFACTURER TO THE ELECTRICAL EQUIPMENT A
SUBMIT ACTUAL SAMPLES OF ALL SUBSTITUTIONS. (3) THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH CONTRACT DOCUMENTS	CONDUITS SIZE, ETC.	COST TO THE TENANT, WHERE APPROVED BY THE ENGINEER.
PRIOR TO SUBMITTING TO ENGINEER. CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT WITH SUBMITTAL STATING THAT SUCH A REVIEW HAS BEEN MADE. ALL SUBMITTALS MADE WITHOUT SUCH A	(6)REMOVE CONDUCTORS FROM EXISTING CONDUITS THROUGH WHICH NEW CONDUCTORS ARE TO BE PULLED.	(1) AT THE TIME OF THE FINAL INSPECTION AND TESTS, ALL CONNECTIONS AT THE PANELS AND ALL SPLICES ETC., MUST HAVE BEEN COMPLETED. ALL FUSES MUST BE IN PLACE AND THE CIRCUITS CONTINUOUS FRO
STATEMENT SHALL BE RETURNED UNREVIEWED.	SCHEDULED FOR DEMOLITION. ALL UNUSED POWER WIRING SHALL BE REMOVED BACK TO ELECTRICAL PANEL FEEDING THE CIRCUIT.	SERVICE SWITCHES TO ALL RECEPTACLES, OUTLETS, MOTORS, ETC.
(4)CONTRACTOR TO CONFIRM DEFERRED SUBMITTALS WITH ARCHITECT, OWNER AND GENERAL CONTRACTOR. ALL APPROVED DEFERRED SUBMITTALS SHALL BE REVIEWED AND COORDINATED WITH CONTRACT DRAWINGS PRIOR TO PROCUREMENT AND ROUGH-IN.	(8)FOR UNUSED JUNCTION BOXES, REMOVE WIRING AND PROVIDE BLANK COVER PLATE, OR COORDINATE WITH GENERAL CONTRACTOR FOR PATCHING OF WALL TO MATCH ADJACENT WALL FINISH PER DIRECTION OF	D.PROTECTIVE DEVICE COORDINATION STUDY THE ELECTRICAL EQUIPMENT MANUFACTURER SHALL PERFORM A PROTECTIVE DEVICE TIME-CURRENT
H. LEAVE WORK READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. PROVIDE ACCESS HATCHES	GENERAL CONTRACTOR FOR PATCHING OF WALL TO MATCH ADJACENT WALL FINISH PER DIRECTION OF ARCHITECT.	COORDINATION ANALYSIS OF THE SPECIFIED ELECTRICAL POWER DISTRIBUTION SYSTEM. THIS ANALYSIS SI INCLUDE:
AS REQUIRED.	(9)ALL UNUSED CIRCUITS THAT ARE SPARES SHALL BE TURNED OFF AND LABELED AS SPARES ON REVISED PANEL DIRECTORIES.	(1)A DETERMINATION OF SETTINGS OR RATINGS FOR THE OVER-CURRENT PROTECTIVE DEVICES SUPPLIED. WHERE NECESSARY, AN APPROPRIATE COMPROMISE SHALL BE MADE BETWEEN SYSTEM PROTECTION A
T. MAINTAIN A FIELD REPRESENTATIVE ON THE PREMISES AT ALL TIMES DURING THE COURSE OF THE CONSTRUCTION WORK.	(10) RETAIN CIRCUIT CONTINUITY FOR EXISTING ELECTRICAL EQUIPMENT, FIXTURES, AND DEVICES THAT ARE TO REMAIN, SUCH EQUIPMENT SHALL BE RECONNECTED TO EXISTING	SERVICE CONTINUITY WITH SYSTEM PROTECTION AND SERVICE CONTINUITY CONSIDERED TO BE OF EQUIMPORTANCE. THE TIME-CURRENT COORDINATION ANALYSIS SHALL BE PERFORMED WITH THE AID OF A
J. COORDINATE SEQUENCE OF WORK WITH ALL OTHER TRADES	CIRCUITS OR NEW CIRCUIT(S) AS INDICATED ON DRAWINGS. IF SUFFICIENT CIRCUITS ARE NOT AVAILABLE FOR CONSTRUCTION REMODEL OR THE CIRCUIT IS BEING OVERLOADED, CONTACT ENGINEER IMMEDIATELY.	DIGITAL COMPUTER. (2) AN EVALUATION TO THE DEGREE OF SYSTEM PROTECTION AND SERVICE CONTINUITY POSSIBLE WITH
K.NO REMOVALS SHALL BE MADE WITHOUT ARCHITECT'S OR ENGINEER'S APPROVAL. ALL EXISTING DEMOLISHED EQUIPMENT, MATERIALS, ETC., NOT REQUIRED TO BE INCORPORATED BACK INTO THE NEW WORK SHALL BE REMOVED AND DISPOSED OF BY THIS CONTRACTOR, UNLESS OTHERWISE NOTED.	REMOVE JUNCTION BOX COVER PLATES WITH INACCURATE PANEL/CIRCUIT IDENTIFICATION AND REPLACE WITH NEW COVERS REFLECTING ACCURATE PANEL/CIRCUIT INFORMATION.	OVERCURRENT DEVICES SUPPLIED.
L. THIS CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO BRING THE ELECTRICAL AND COMMUNICATION	(11) CONTRACTOR SHALL ENSURE THAT CIRCUITS SHARED BETWEEN PROJECT AREA AND EXISTING SPACES REMAIN INTACT PER ORIGINAL DESIGN INTENT.	[NOTE TO SPEC WRITER: SELECT APPROPRIATE PARTY.] (3)PROVIDE ELECTRONIC COPIES OF THE PROTECTIVE DEVICE TIME-CURRENT COORDINATION ANALYSIS FC
SERVICES TO THE SPACE AND SHALL PROVIDE A SYSTEM OF TEMPORARY LIGHTING AND POWER OUTLETS FOR THEIR WORK AND THE WORK OF OTHER TRADES AND SHALL REMOVE ALL TEMPORARY WORK PRIOR TO THE COMPLETION OF THE JOB.	(12) ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TRACING OUT ALL EXISTING TO REMAIN CIRCUITS WHICH ARE OR MAY BE AFFECTED BY THIS PROJECT. TO ENSURE CIRCUIT	THE ENGINEER'S APPROVAL. WITHIN 60 DAYS OF CONTRACT AWARD. DOCUMENTATION SHALL INCLUDE THE FOLLOWING:
M.THE CONTRACTOR SHALL SUPPLY ALL EQUIPMENT, LABOR SERVICES AND MATERIALS REQUIRED FOR THE	CONTINUITY AND TO PREVENT OVERLOADING OF ANY SINGLE CIRCUIT. MAXIMUM OF NINE (9) RECEPTACLES SHALL BE CONNECTED TO A 20-AMP CIRCUIT UNLESS OTHERWISE NOTED OR A MAXIMUM OF 16-AMPS SHALL	 LOG-LOG PLOTS OF TIME-CURRENT CHARACTERISTIC CURVES. A TABULATION OF THE SUGGESTED SETTINGS OF THE ADJUSTABLE OVERCURRENT PROTECTIVE DEVISUPPLIED.
COMPLETE INSTALLATION OF THE LIGHTING, POWER AND COMMUNICATION SYSTEMS SHOWN IN THE DRAWINGS AND HEREIN SPECIFIED. ALL MATERIALS SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE AND SHALL	BE CONNECTED TO A 20-AMP CIRCUIT.	 SUPPLIED. THE KEY OR LIMITING OVERCURRENT DEVICE CHARACTERISTICS, LOAD CHARACTERISTICS, AND PROTECTION REQUIREMENTS AFFECTING THE SETTING OR RATINGS OF THE OVERCURRENT PROTECT
BEAR THE UNDERWRITER'S LABORATORY OR APPROVE LISTING AGENCY LABEL.	[NOTE TO SPEC WRITER: SELECT APPROPRIATE PARTY.]	DEVICES SUPPLIED. • THE DEGREE OF SERVICE CONTINUITY AND SYSTEM PROTECTION ACHIEVED WITH THE OVERCURRENT
N. ALL WIRING, INCLUDING LOW VOLTAGE SIGNAL AND TELEPHONE, SHALL BE INSTALLED IN CONDUIT. UL APPROVED PLENUM CABLE MAY BE USED WITHOUT CONDUIT WHERE CONCEALED AND IF ACCEPTABLE TO BOTH LOCAL AUTHORITIES HAVING JURISDICTION AND THE OWNER.	(13) FOR EXISTING FLOOR-MOUNTED DEVICES (POKE-THRUS) BEING ABANDONED, REMOVE EXISTING DEVICES, CONDUIT, AND ASSOCIATED WIRING BACK TO POINT OF ORIGIN. MAINTAIN CIRCUIT CONTINUITY FOR REMAINING DEVICES, IF REQUIRED. PROVIDE A FIRE-RATED PLUG AND	 PROTECTIVE DEVICES SUPPLIED. AN ANALYSIS OF THE RESULTS IN WHICH ANY INADEQUACIES SHALL BE CALLED TO THE ATTENTION OF ENGINEER AND RECOMMENDATIONS MADE FOR IMPROVEMENTS. THESE RECOMMENDATIONS SHALL INFORMATIONS SHALLING SHALL INFORMATIONS SHALL INFORMATIONS SHALL INFORMATIONS SHA
O.IT IS THE INTENT OF THIS SPECIFICATION THAT CONTINUITY OF ELECTRICAL SERVICE BE MAINTAINED. ALL	FLUSH ABANDONMENT KIT. COORDINATE WITH BUILDING MANAGEMENT TO INFORM TENANT BELOW PRIOR TO COMMENCEMENT OF WORK. ALL WORK WITHIN EXISTING TENANT SPACE(S) SHALL BE PERFORMED OFF HOURS UNLESS BUILDING MANAGEMENT AUTHORIZES DIFFERENT HOURS	ENGINEER AND RECOMMENDATIONS MADE FOR IMPROVEMENTS. THESE RECOMMENDATIONS SHALL I INCORPORATED BY THE ELECTRICAL EQUIPMENT MANUFACTURER TO THE ELECTRICAL EQUIPMENT A COST TO THE TENANT, WHERE APPROVED BY THE ENGINEER.
REQUIRED SHUTDOWNS SHALL BE COORDINATED IN ADVANCE WITH THE OWNER AND SHALL BE SCHEDULED OUTSIDE NORMAL WORKING HOURS. CONTRACTOR SHALL INCLUDE ALL PREMIUM TIME COSTS FOR SUCH SHUTDOWNS IN HIS BID.	HOURS UNLESS BUILDING MANAGEMENT AUTHORIZES DIFFERENT HOURS.	E. ARC FLASH HAZARD ANALYSIS
(1) WHEN INSTALLATION OF A NEW SYSTEM REQUIRES THE TEMPORARY SHUTDOWN OF AN EXISTING	(14) TENANT'S COMMUNICATIONS VENDOR SHALL REMOVE ALL ABANDONED AND	(1)PROVIDE MANUFACTURER ARC FLASH LABELING/IDENTIFICATION ON ALL NEW EQUIPMENT PER NEC. (2)(2) PROVIDE WITH THE COORDINATION AND SHORT CIRCUIT STUDIES AN ARC FLASH STUDY AND DEVICE F
OPERATING SYSTEM, THE CONNECTION OF THE NEW SYSTEM SHALL BE PERFORMED AT SUCH TIME AS DESIGNATED BY THE OWNER.	UNUSED PHONE/DATA CABLING, CABLE SUPPORTS, CONDUIT, JUNCTION BOXES AND ASSOCIATED WIRING LOCATED IN THE CEILING SPACE BACK TO POINT OF ORIGIN, UNLESS THE TENANT'S COMMUNICATIONS CONTRACTOR IS CONTRACTED TO REMOVE THE PHONE/DATA CABLING UNDER A SEPARATE CONTRACT. THE	DEVICE LISTING OF PPE REQUIREMENTS AND RATINGS AS REQUIRED BY THE NEC AND NFPA 70E. ALL EQUIPMENT SHALL HAVE APPROPRIATE LABELING PROVIDED AND INSTALLED BY THE ELECTRICAL
(2) THE OWNER SHALL BE NOTIFIED OF THE ESTIMATED DURATION OF THE SHUTDOWN PERIOD TWO WEEKS IN ADVANCE OF THE DATE THE WORK IS TO BE PERFORMED.	CONTRACTOR IS CONTRACTED TO REMOVE THE PHONE/DATA CABLING UNDER A SEPARATE CONTRACT. THE GENERAL CONTRACTOR SHALL COORDINATE THE APPROPRIATE CONTRACTOR FOR THE REMOVAL OF THE PHONE /DATA CABLING. PRIOR TO DISCONNECTING AND REMOVING ANY EQUIPMENT, DEVICES OR CABLING,	CONTRACTOR/MANUFACTURER AS DETERMINED BY THE STUDY.
(3) WORK SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE, INCLUDING OVERTIME, AT NO EXTRA COST	THE APPROPRIATE CONTRACTOR SHALL ENSURE EQUIPMENT IS ABANDONED AND CAN BE REMOVED. COORDINATE WITH OWNER PRIOR TO REMOVAL.	4. ELECTRIC SERVICE
TO THE OWNER TO ASSURE THAT EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTIONS.	I. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOXES, NEW CONDUIT AND WIRING AS REQUIRED TO REPAIR. REROUTE AND RECONNECT CONDUCTORS THAT ARE DAMAGED. DISTURBED OR OTHERWISE	A.PROVIDE PERMANENT UTILITY SERVICE ENTRANCE COMPLETE AND FULLY OPERATIONAL.
P. VERIFY SOURCE OF POWER TO ALL EQUIPMENT WITH BUILDING MANAGEMENT PRIOR TO INSTALLATION.	ADVERSELY AFFECTED BY THE DEMOLITION AND REMODEL WORK.	C.CONTRACTOR SHALL OBTAIN THE LATEST UTILITY STANDARDS FOR MATERIALS AND INSTALLATION
Q.THE CONTRACTOR, BEFORE FINAL ACCEPTANCE WILL BE GRANTED, SHALL CLEAN ALL LIGHTING FIXTURES, DEVICE PLATES, SERVICE FITTINGS, AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT. CONTRACTOR	J. ALL NEW AND RELOCATED MATERIALS INSTALLED IN CEILING PLENUM SHALL BE UL LISTED FOR PLENUM INSTALLATION. LOW VOLTAGE CABLE AND CONDUCTORS NOT ENCLOSED IN CONDUIT SHALL BE UL CLASS I RATED, WITH INSULATION MEETING, NON TOXICITY REQUIREMENTS.	REQUIREMENTS AND COMPLY FULLY.
SHALL ENSURE THAT ALL DIRECTORIES ARE IN PLACE WITH COMPLETED SCHEDULES, PANELBOARDS ARE VACUUMED AND ALL IDENTIFICATIONS AND MARKINGS OF EQUIPMENT, CABLES, AND OTHER ITEMS ARE COMPLETED.	RATED, WITH INSULATION MEETING NON-TOXICITY REQUIREMENTS.	D. SERVICE ENTRANCE EQUIPMENT
COMPLETED. R. ALL AREAS AFFECTED BY THIS REMODEL MUST BE LEFT CLEAN. ALL CEILING TILES MUST BE CLEAN.	COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTION WITH MECHANICAL/PLUMBING CONTRACTOR. ELECTRICAL CONTRACTOR SHALL OBTAIN MECHANICAL SUBMITTALS TO	(1)FRONTS SHALL BE SURFACE OR FLUSH TYPE AS INDICATED ON PANEL SCHEDULES AND/OR PLANS.
UNDAMAGED AND IN PLACE.	COORDINATE DISCONNECT MEANS, SPECIFICATIONS, AND VOLTAGE REQUIREMENTS PRIOR TO ROUGH-IN. VERIFY UNIT WHEN DELIVERED TO SITE. IF DISCREPANCIES OCCUR, NOTIFY ELECTRICAL ENGINEER IMMEDIATELY.	(2)MULTI-SECTION PANELBOARD CABINETS SHALL BE OF THE SAME HEIGHT AND FURNISHED WITH BUSHED, MINIMUM 3" DIAMETER OPENINGS BETWEEN SECTIONS, LOCATED NEAR TOP AND BOTTOM END GUTTERS ALLOW FOR CABLE TIE BETWEEN SECTION BUSSES. FLUSH TYPE TRIMS FOR MULTI-SECTION PANELS SHA
S.AS-BUILT DRAWINGS	IMMEDIATELY.	BE SHEARED TO ALLOW FOR JOINING OF SECTION CABINETS.
(1) THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF ALL WORK AS ACTUALLY INSTALLED. THE RECORD SET SHALL BE AVAILABLE AT THE SITE AT ALL TIMES.	FITTINGS TO MODULAR FURNITURE ELECTRIFIED BASES. COORDINATE ALL CONNECTION LOCATIONS WITH FURNITURE SUBCONTRACTOR PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR TO MAKE FINAL ELECTRICAL	E. METERING
DTE TO SPEC WRITER: SELECT APPROPRIATE PARTY.]	CONNECTIONS TO FURNITURE SYSTEMS.	(1)PROVIDE KW AND KWH METER BASES, METER RACEWAY AND METERING CONDUCTORS PER UTILITY REQUIREMENTS, FROM CURRENT TRANSFORMERS (CTS) TO METER LOCATION(S). (2)THE SWITCHBOARD MANUFACTURER SHALL CONFIRM ALL LOCAL UTILITY REQUIREMENTS AND SHALL
(2) AT CONCLUSION OF WORK, SUBMIT ORIGINAL LEGIBLE REPRODUCIBLE COPY ALONG WITH AN ELECTRONIC FILE REFLECTING AS-BUILT CONDITION TO ELECTRICAL ENGINEER OF RECORD AND SUBMIT TO BUILDING	PROPERLY. REPLACE DAMAGED RECEPTACLES OR WIRING WITH NEW WHERE REQUIRED.	PROVIDE THE EQUIPMENT THAT MEETS THESE REQUIREMENTS. F. WORK BY UTILITY
MANAGEMENT/ TENANT.	N.FOR DEVICES OR JUNCTION BOXES LOCATED IN WALLS, WHICH MUST REMAIN IN PLACE FOR CIRCUIT CONTINUITY, PROVIDE BLANK COVER PLATES TO MATCH NEW/EXISTING COVER PLATES.	(1)PRIMARY CONDUCTORS AND TERMINATIONS. (2)UTILITY SERVICE TRANSFORMER(S). (2)TERMINATION OF SERVICE ENTRANCE SECONDARY CONDUCTORS AT UTILITY CONDUCTION POINT
T. GUARANTEES (1)CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATE OF	O.PROVIDE ALL CUTTING AND PATCHING OF THE STRUCTURE REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. ALL STRUCTURAL CORES SHALL BE COORDINATED WITH STRUCTURAL ENGINEER PRIOR TO CUTTING.	(3) TERMINATION OF SERVICE ENTRANCE SECONDARY CONDUCTORS AT UTILITY CONNECTION POINT. (4) CURRENT TRANSFORMERS AND UTILITY REVENUE METERS. (5) VALUET LIGHTING AND MISCELLANEOUS RECEPTACIES.
ACCEPTANCE OF THE PROJECT. IT IS UNDERSTOOD BY THEIR ACCEPTANCE OF THE CONTRACT THAT THEY WILL MAKE GOOD ON ALL WORK AND MATERIALS WHICH ARE DEFECTIVE OR DAMAGED BY ELECTRIC TRADE	P. PRIOR TO CORE DRILLING THROUGH FLOORS, VERIFY CLEARANCE OF BEAMS, DUCTWORK, ETC. IN CEILING	(5) VAULT LIGHTING AND MISCELLANEOUS RECEPTACLES. G.WORK BY ELECTRICAL CONTRACTOR (1) PRIMARY RACEWAY AND PULL CORDS.
OR OTHER TRADES FOR THE DURATION OF THE STIPULATED GUARANTEE PERIOD.	SPACE BELOW AND USE X-RAY/GPR SCANS FOR CONDUIT AND/OR REBAR IN SLAB. COORDINATE WITH OWNER TO INFORM TENANT BELOW OF SCHEDULING FOR CORE DRILLING AND TO ADVISE CONCERNING PROTECTION OF ANY SENSITIVE EQUIPMENT PRIOR TO COMMENCEMENT OF WORK. ALL X-RAYS AND CORE DRILLS MUST BE	(2)SERVICE ENTRANCE RACEWAYS AND CONDUCTORS PER UTILITY STANDARDS. (3)GROUNDING RODS AND GROUNDING CONDUCTOR AT TRANSFORMER VAULTS.
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A. THE WORK UNDER THIS SECTION CONSISTS OF FORNISHING ALL LABOR, MATERIALS, EQUIPMENT AND APPLICATIONS INDICATED OR NECESSARY FOR ALL ELECTRICAL WORK AS INDICATED ON THE DRAWINGS OR	Q.ENSURE ALL NEW AND EXISTING CONDUITS. COMMUNICATION AND DATA CABLES. AND FIRE ALARM CABLES ARE	(6)CURRENT TRANSFORMER ENCLOSURES PER UTILITY REQUIREMENTS. (7)BUILDING SERVICE ENTRANCE RACEWAYS AND CONDUCTORS PER UTILITY REQUIREMENTS.

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 K SOUND LEVELS SHALL NOT EXCEED THE FOLLOWING FEATURES AND RATINGS: L TRANSTORMERS SHALL MUET UL 500 RUQURUMUNTS. (1) INCLOSURAS SHALL MUET UL 500 RUQURUMUNTS. (2) INCLOSURAS SHALL MUET UL 500 RUQURUMUNTS. (3) INSULATION CLASSE ISSCI CLASS DOB JÄKKNA TA MNSPORMERS OS ANM JLER; 200 CLASS DOB JÄKKNA TA MNSPORMERS IS ARM JLER; 200 CLASS DOB JÄKKNA TA MNSPORMERS IS ARM JLER; 200 CLASS DOB JÄKKNA TA MNSPORMERS OS ARM JLER; 200 CLASS DOB JÄKKNA TA MNSPORMERS IS ARM JLER; 200 CLASS INSULATION; 1150 MASHMURS ID RASE ROL 1255 TABS, TWO AROYE ARD TAO BELOW NORMAL VOLTAGE. (4) SKNA THROICHS SNV AND LARGER, PULL CAPACITY TAPS IN HIGH-VOLTAGE WINDING AS FOLLOWS: (5) SKNA THROICHS SNV AND LASSE, TADS, TAND NA DARDY BAND TWO BELOW NORMAL VOLTAGE. (4) SKNA THROICHS SNV AND LASSE TADS, TWO AROYE AND TWO BELOW NORMAL VOLTAGE. (5) SKNA THROICHS SNV AND LASSE TADS, TAND TWO BELOW NORMAL VOLTAGE. (4) SKNA THROICHS SNV AND LASSE TADS, TWO AROYE AND TWO BELOW NORMAL VOLTAGE. (5) SKNA THROICHS SNV AND LARGER TO BE MOINTED ON RUBBER WIDR ATION ISOLATORS ON CONCRELL PADS. (6) SKNA THROICHS SNALL BE MAINTAINED PER NEC REQUIREMENTS. ELECTRICAL CONTRACTOR SNALL FIELD TO IS SNA WALL MOINTING IS NDICATED ON DRAWINGS. (7) SAETY SWITCHES SHALL BE MAINTAINED PER NEC REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL FIELD AND SAND SCHEDULES, STANDARD BULCOSURE INDOROS AND WAATHER-TIGHT NEAR SINDICATED ON PLANS AND SCHEDULES. STANDARD BURCHSCHES STANDARD BURCHSCHES SWITCHES SNALL BE HEAVY DUTY TYPE, RATED FOR MOTORS OR EQUIPMENT AS INDICATED ON PLANS AND SCHEDULES, STANDARD BURLOSURE INDOROS AND WAATHER-TIGHT NEAR SINDICATED ON PLANS AND SCHEDULES. STANDARD BURLOSURE INDOROS AND WAATHER-TIGHT NEAR SINDICATED ON PLANS AND SCHEDULES. STANDARD BURLOSURE IN THE CONCELS FOR CHEME TO SUMICATED ON NEAR MARKES. SHOULD FURGE SHALL BE CONTRACTOR SHALL BE HEAVY DUTY TYPE, RATED FOR MOTORS OR EQUIPMENT AS INDICATED ON PLANS AND SCHEDUNG TO A BAND SCHE	J. TRANSFO FANS TO	RMERS SHALL MEET					
 (1) ENCLOSURES SHALL MEET LL 500 REQUIREMENTS. (2) ENCLOSURES INDUCASS, ISC CLASS INDER 37% KVA. (3) INSULATION CLASS, ISC CLASS INDER 37% KVA. (4) INSULATION CLASS, ISC CLASS INDUCATION. (5) FOR TRANSPORTER ATURE RESP. ISC: MAXIMUM RISE ABOVE 40C, FOR 220C CLASS INSULATION; ISC MAXIMUM RISE FOR ISS CLASS INSULATION. (6) FOR TRANSPORTER SIVA AND LARGER, FULL CAPACITY TAPS IN HIGH-VOLTAGE WINDING AS FOLLOWS: (7) SKVA THROUGH 300 KVA: FOUR 2.5% TAPS, TWO ABOVE AND TWO BELOW NORMAL VOLTAGE. (8) SKVA THROUGH 500 KVA: FOUR 2.5% TAPS, TWO ABOVE AND TWO BELOW NORMAL VOLTAGE. (9) SKVA THROUGH 500 KVA: FOUR 2.5% TAPS, TWO ABOVE AND TWO BELOW NORMAL VOLTAGE. (9) SKVA THROUGH 500 KVA: FOUR 2.5% TAPS, TWO ABOVE AND TWO BELOW NORMAL VOLTAGE. (1) WALL MOUNTING BRACKETS: MANUFACTURERS STANDARD BRACKETS FOR TRANSFORMERS SIZED UP TO IS KVA WILLER WALL MOUNTING IS INDICATED ON DRAMINGS. (2) CCR AND COLL ASSEMBLIES 30 KVA AND LARGER TO BE MOUNTED ON RUBBER VIBRATION ISOLATORS ON CONCRETE FADS. (2) ALL CLEARANCES SHALL BE MAINTAINED PER NEC REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL FIELD VERTY PHALL LOCATION, HEIGH TRESTRUCTIONS AND CLEARANCES FINOR TO PUPCHASING TRANSFORMERS THAT ARE INDICATED TO BE MOUNTED IN PLENUM SPACE OR CELLING MOUNTED. (7) SAFETY SWITCHES (4) SAFETY SWITCHES (5) SAFETY SWITCHES SHALL BE MEANY DUTY TYPE, RATED FOR MOTORS OR EQUIPMENT AS INDICATED ON PLANS AND SCHEDULES FOR THE CHASING TRANSFORMERS. THAT ARE INDICATED TO BE MOUNTED ON RAWINGS. (5) ELECTRICAL, CONTRACTOR SHALL BE NOTICED ON MECHANICAL PLUMBER VIBRO PLANS, MECHANICAL EDUIPMENT, SCHEPY WHICHES SHALL BE VERTIFICATION MOTORS OR EQUIPMENT AS INDICATED ON PLANS AND SCHEPT TO THE COULS FOR OTHER REQUIREMENTS, WHERE TO THE SHALL BE REPORTED TO BE MOUNTED ON RAWINGS. (6) ELECTRICAL MONTRACTOR SHALL BE DESCENTION UNCLANDARY AND DRIANSPACE AND ORDINANCES. SHOULD TAKE PLANS ON THE ON TRACTOR SHA		VELS SHALL NOT EX	CEED THE FOLL	OWING: 150 KVA Al	ND BELOW, 50 DB	; ABOVE 150 KVA	4, 60 DB.
 (2) ENCLOSURE: ENDORE, VENTILATED, DRIP PROOF IN ELECTRIC ROOMS. (3) INSULATION CLASS INSC CLASS FOR 37% KVA. TRANSFORMERS OR SMALLER: 220C CLASS FOR TRANSFORMERS LARGIE VTANS 1000 2000 2000 2000 2000 2000 2000 200					ATINGS:		
 TRANSHORMERS LARGER THAN 37% KYA. (4)(INSULTION TEMPERATURE RES: SOC MAXIMUM RISE ABOVE 40C, FOR 220C CLASS INSULATION, ILSC MAXIMUM RISE FOR ISSC CLASS INSULATION. (6)FOR TRANSFORMER SYA AND LARGER, FULL CAPACITY TAPS IN HIGH-VOLTAGE WINDING AS FOLLOWS: 3 KYA THROUGH 30 KYA: FOUR 2.5% TAPS, TWO ABOVE AND TWO BELOW NORMAL VOLTAGE. 3 KYA THROUGH 30 KYA: FOUR 2.5% TAPS, TWO ABOVE AND TWO BELOW NORMAL VOLTAGE. 3 KYA THROUGH 50 KYA: FOUR 2.5% TAPS, TWO ABOVE AND TWO BELOW NORMAL VOLTAGE. (1)WALL MOUNTING BRACKETS: MANUFACTURERS STANDARD BRACKETS FOR TRANSFORMERS SIZED UP TO IS KYA WHERE WALL MOUNTING IS INDICATED ON DRAWINGS. (2)CORE AND COLL ASSEMBLIES 30 KYA AND LARGER TO BE MOUNTED ON RUBBER VIBRATION ISOLATORS ON CONCRETE PADS. (2)CORE AND COLL ASSEMBLIES 30 KYA AND LARGER TO BE MOUNTED ON RUBBER VIBRATION ISOLATORS ON CONCRETE PADS. (3) ALL CLEARANCES SHALL BE MAINTAINED PER NEC REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY FINAL LOCATION, HIEGHT RESTRICTIONS AND CLEARANCES PRIOR TO PURCHASING TRANSFORMERS THAT ARE INDICATED OS BE MOUNTED IN PLENUM SPACE OCELING MOUNTED. 7. SAFETY SWITCHES A SAFETY SWITCHES A SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE, RATED FOR MOTORS OR EQUIPMENT AS INDICATED ON PLANS AND SCHEDULES; OT AND/ARD EXAMOLES INDICATED ON MEXTHER. FLUER REQUIREMENTS, WHERE FUSED TO MOKINGAULES; STANDARD PLANC SMEDIATED ON MEXTHER. FLUER REPORTER REPORT FOR THE REPORT REPORT ON THE AND AND SCHEDULES; OT AND/ARD SA DECED ON DRAWINGS. B ELECTRICAL CONTRACTOR SHALL PROVIDE SAFETY DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT, EXCEPT WHERE FLUES DON DRAWINGS. B ELECTRICAL CONTRACTOR SHALL PROVIDE SAFETY DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT, EXCEPT WHERE OTHERWING SHELOWER AND WHICH SHALL BE AND RECHANICAL PLUMBING PLANS, REFER TO MICHAURAL PLUMBING PLANS, REFER TO MICHAURAL PLANS, REFER TO DO MARWINGS. B ELECTRICAL CON	(2)ENCLO	SURE: INDOOR, VEN	ITILATED, DRIP P	PROOF IN ELECTRIC			
 MAXIMUM RISE FOR ISSC CLASS INSULATION. (SPOR TRANSFORMER XVA AS DU RACREP, PULL CAPACITY TAPS IN HIGH-VOLTAGE WINDING AS FOLLOWS: 3 KVA THROUGH 30 KVA: FOUR 2.5% TAPS, TWO ABOVE AND TWO BELOW NORMAL VOLTAGE. 30 KVA THROUGH 30 KVA: FOUR 2.5% TAPS, TWO ABOVE AND TWO BELOW NORMAL VOLTAGE. 30 KVA THROUGH 30 KVA: FOUR 2.5% TAPS, TWO ABOVE AND TWO BELOW NORMAL VOLTAGE. MAXIMUM RISE FOR ISSC CLASS MAND FACTURERS STANDARD BRACKETS FOR TRANSFORMERS SIZED UP TO ISK VA WITCHE WALL MOUNTING IN CALTORS IN DO NDAWINGS. (2)CORE AND COIL ASSEMBLIES 30 KVA AND LARGER TO BE MOUNTED ON RUBBER VIBRATION ISOLATORS ON CONCRETE PADS. N ALL CLEARANCES SHALL BE MAINTAINED PER NEC REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL FIELD VERYF FINAL LOCATION, HEIGHT RESTRICTIONS AND CLEARANCES PRIOR TO PURCHASING TRANSFORMERS THAT ARE INDICATED TO BE MOUNTED IN PLENUM SPACE OR CELLING MOUNTED. ASAFETY SWITCHES A SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE. RATED FOR MOTORS OR EQUIPMENT AS INDICATED ON PLANS AND SCHEDULES: STANDARD ENCLOSURE INDOORS AND WEATHER-TIGHT NEMA 3R ENCLOSURE OUTDOORS, FUSED OR NON-FUSED AS NOTED ON DRAWINGS. B ELECTRICAL CONTRACTOR SHALL PROVIDE SAFETY DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT, EXCEPT WHENE OTHER NOTED ON DRAWINGS. B ELECTRICAL CONTRACTOR SHALL PROVIDE SAFETY DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT, EXCEPT WHENE OTHER NOTED ON DRAWINGS. B ELECTRICAL CONTRACTOR SHALL PROVIDE SAFETY DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT, EXCEPT WHENE ON THE ON CONCORTS AND UNT NAMEPLATED. D SWITCHES SHALL BE ORDUPINED TO SCHEDULES FOR AND CONDINACES. SHOULD FUSE REQUIREMENTS BE OTHER THAN SHOWN, NOTIFY ENGINEER IMMEDIATELY. C.SWITCHES UTHER WIND WIND MAY AND SHOULD SARE AS PROUNDED VL COAL CORE AND ONDINANCES. SHOULD FUSE REQUIR	TRANS	FORMERS LARGER T	HAN 37½ KVA.				N; 115C
 MACCESSORES: (1) WALL MOUNTING BRACKETS: MANUFACTURERS STANDARD BRACKETS FOR TRANSFORMERS SIZED UP TO 15 KVA WITER WALL MOUNTING IS INDICATED ON DRAWINGS. (2) CORE AND COLL ASSEMBLIES 30 KVA AND LARGER TO BE MOUNTED ON RUBBER VIBRATION ISOLATORS ON CONCRETE PADS. N ALL CLEARANCES SHALL BE MAINTAINED PER NEC REQUIREMENTS: ELECTRICAL CONTRACTOR SHALL FIELD VERIFY FINAL LOCATION, HEIGHT RESTRICTIONS AND CLEARANCES PRIOR TO PURCHASING TRANSFORMERS THAT ARE INDICATED TO BE MOUNTED IN PLENUM SPACE OR CELLING MOUNTED. 7. SAFETY SWITCHES A SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE. RATED FOR MOTORS OR EQUIPMENT AS INDICATED ON PLANS AND SCHEDULES: STANDARD ENCLOSURE INDOORS AND WEATHER-TIGHT NEMA 3R ENCLOSURE OUTDOORS, FUSED OR NON-FUSED AS NOTED ON DRAWINGS. B. ELECTRICAL CONTRACTOR SHALL PROVIDE SAFETY DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT, EXCEPT WHERE OTHERWISE SPECIFICALLY INDICATED ON MECHANICAL/PLUMBING PLANS, (REFRE TO MECHANICAL/PLUMBING PLANS AND EQUIPMENT SCHEDULES FOR OTHER REQUIREMENTS). WHERE FUSED DISCONNECTS ARE UTILIZED, FUSE SIZE SHALL BE VERIFIED WITH MANUFACTURER'S CUT SHEETS AND UNIT NAMEPLATE DATA WHEN UNIT ARRIVES ON SITE OR AS REQUIRED BY LOCAL CODE AND ORDINANCES. SHOULD FUSE REQUIREMENTS BE OTHER THAN SHOWN, NOTIFY ENGINEER IMMEDIATELY. C. SWITCHES UP TO AND INCLUDING 600 AMPERES SHALL BE HORSEPOWER RATED. D. SWITCHES SHALL HAVE A QUICK-MADE, QUICK-BREAK OPERATING HANDLE AND MECHANISM WHICH SHALL BE AN INTEGRAL PART SE OTHER THAN SHOWN, NOTIFY ENGINEER IMMEDIATELY. G. SWITCHES SHALL BE CAPABLE OF WITHSTANDING THE AVAILABLE FAULT LET-THROUGH CURRENT BEFORE THE FUSE OPERATES WITHOUT DAMAGE OR CHANGE IN RATING. G. FUSE CLESS, WHERE REQUIRED, SHALL BE OF THE REJECTION TYPE AND SHALL ACCOMMODATE DUAL ELEMENT, CURRENT LIMITING FUSES SHALL BE OF THE REJECTION TYPE AND SHALL ACCOMMODATE DUAL ELEMENT, CURRENT LIMITING FUSES SHALL OVERLOAD SWITCHES WITH LOCKOUT MEANS TO MEET NEC REQUIREMENTS WERE	MAXIN (5)FOR TH • 3 KV	IUM RISE FOR 185C C ANSFORMER 3KVA A /A THROUGH 30 KVA	LASS INSULATIC AND LARGER, FU .: FOUR 2.5% TAP	DN. JLL CAPACITY TAPS S, TWO ABOVE ANE	S IN HIGH-VOLTA TWO BELOW NO	GE WINDING AS I PRMAL VOLTAGE	FOLLOWS: E.
 (2) CORE AND COLL ASSEMBLIES 30 KVA AND LARGER TO BE MOUNTED ON RUBBER VIBRATION ISOLATORS ON CONCRETE PADS. N. ALL CLEARANCES SHALL BE MAINTAINED PER NEC REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL FIELD VEREY FINAL LOCATION, HEIGHT RESTRICTIONS AND CLEARANCES PRIOR TO PURCHASING TRANSFORMERS THAT ARE INDICATED TO BE MOUNTED IN PLENUM SPACE OR CEILING MOUNTED. 7. SAFETY SWITCHES A.SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE, RATED FOR MOTORS OR EQUIPMENT AS INDICATED ON PLANS AND SCHEDULES, STANDARD ENCLOSURE INDOORS AND WEATHER TIGHT NEMA 3R ENCLOSURE OUTDOORS, FUSED OR NON-YUSED AS NOTED ON DRAWINGS. B. ELECTRICAL CONTRACTOR SHALL PROVIDE SAFETY DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT, EXCEPT WHERE CHERNISE SPECIFICALLY INDICATED ON MECHANICAL/PLUMBING PLANS, REFER TO MERCE POR TOTHER REQUIREMENTS, WHERE FUSED DISCONNECTS ARE UTILIZED, FUSE SIZE SHALL BE VERIFIED WITH MANUFACTURERYS OUT SHEETS AND UNIT NAMEPLATE DATA WHEN WITT NARRYSE ON STADE TO RANGE POR TORER DATAL COLL CODE AND ORDINANCES. SHOULD FUSE REQUIREMENTS BE OTHER THAN SHOWN, NOTIFY ENGINEER IMMEDIATELY. C. SWITCHES UP TO AND INCLUDING 600 AMPERES SHALL BE HORSEPOWER RATED. D. SWITCHES SHALL BAC QUICK-BREAK OPERATING HANDLE AND MECHANISM WHICH SHALL BE AN INTEGRAL PART OF THE ENCLOSURE, ON THE COVER. E. PROVIDE INTERLOCKS TO PREVENT OPENING THE COVER WITH THE SWITCH IN THE "ON" POSITION OR CLOSING OF THE SWITCH WITH THE DOOR OPEN. F. SWITCHES SHALL BE CAPABLE OF WITH STANDING THE AVAILABLE FAULT LET-THROUGH CURRENT BEFORE THE FUSE OPERATES ONLY. FUSES SHALL BE OF THE RELECTION TYPE AND SHALL ACCOMMODATE DUAL ELEMENT, CURRENT HINTING FUSES ONLY. FUSES SHALL BE OF THE RELECTION TYPE AND SHALL ACCOMMODATE DUAL ELEMENT, CURRENT LIMITING FUSES ONLY. FUSES SHALL BE OFTHER TRUCKS. F. SWITCHES SHALL BE CAPABLE OF WITH STANDING THE AVAILABLE FAULT LET-THROUGH CURRENT BEFORE THE FUSE OPERATES MITHOUT DAMAGE OR CHANGE IN RATING. G.FUSE CLEPS, WHERE REQUIR	M.ACCESSO	RIES:					
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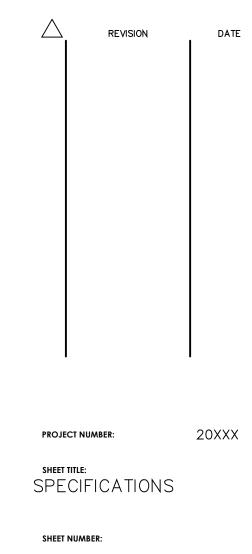




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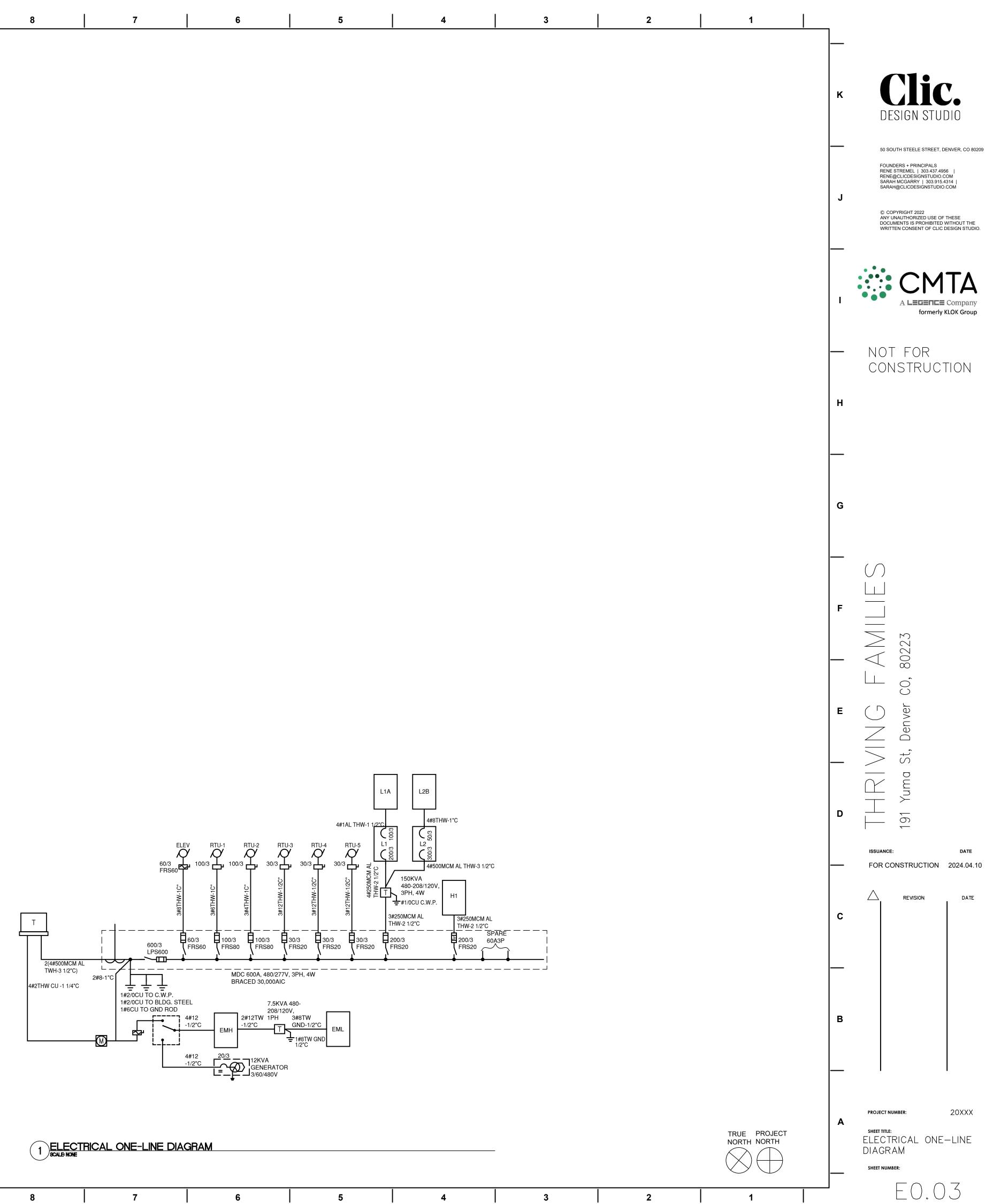
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(2)PIPE STARPS SHALL BE TYPE ISTULE A OR BIN ACCORDANCE WITH FEDERAL SPECIFICATION PF-378A0. FROM HIGHER VOLTAGE SYSTEMS, PROVIDE 600 VOLT INSULATION ALL PARTS AND HARDWARE POR MUSICIPE CALVAREED THE NAME INSULATION TYPE IF USED FOR CALVAREED FOR MUSICIPE CALVAREED FOR CALVAREED FOR MUSICIPE CALVAREED FOR CALVAREED FOR MUSICIPE CALVAREED FOR CALVAREED FOR CALVAREED FOR CALVAREED FOR MUSICIPE CALVAREED FOR MUSICIPE CALVAREED FOR THE FOLDER FOR THE FOLDER FOR THE FOLDER FOR THE ALAVEE SECURE FOR THE FOR THE CALVAREED FOR THE FOR TH			EW CONDUIT IS SUPPORTED SEPAR	RATELY FROM BUILDING STRUCTURE	(4)W	VIRING IN HIGH TEN		AS GREATER THAN	N 90 DEGREE C: TYPE
(3)INDIVIDUAL AND MULTIPLE PRE-HANGERS AND RISE CLAMPS INCLUDING ALL PARTS AND HARDWARE FOR HANGER ASSEMBLY AND CONDUITS SHALL BE PROVIDED. EACH MULTIPLE HANGER SHALL BE CONDUCTORS OF SAME INSULATION TYPE IF USED FOR HANGER ASSEMBLY AND CONDUITS SHALL BE PROVIDED. EACH MULTIPLE HANGER SHALL BE CONDUCTORS OF SAME INSULATION TYPE IF USED FOR HANGER ASSEMBLY AND CONDUTS. SHALL BE PROVIDED. EACH MULTIPLE HANGER SHALL BE CONDUCTORS OF SAME INSULATION TYPE IF USED FOR HANGER ASSEMBLY AND CONDUTS. (4) HANGER AND HARDWARE SHALL BE IN ACCORDANCE WITH FEDERAL SPECIFICATIONS WH-H-I/D. (1) HANGER SAME INSULATION TYPE IF USED FOR SUBJECT AND	—	(2)PIPE STRAPS SHALL BE TYPE I STYI	LE A OR B IN ACCORDANCE WITH FE	EDERAL SPECIFICATION PF-S-760A.	FI	ROM HIGHER VOLT	TAGE SYSTEMS, P	PROVIDE 600 VOLT	INSULATION.
C SUPPORT A LOAD EQUAL TO OR GREATER THAN THE SUM OF THE WEIGHTS OF THE CONDUITS, WIRES AND HANGER TISELF. LOPPER ONLY. HANGER TISELF, FULS 200 POUNDS. (1)HANGER TISELF, FULS 200 POUNDS. (4)HANGER TISELF, FULS 200 POUNDS. (1)HANGER TISELF, FULS 200 POUNDS. (4)HANGER TISELF, FULS 200 POUNDS. (1)HANGER TISELF, FULS 200 POUNDS. (4)HANGER TISELF, FULS 200 POUNDS. (1)HANGER TISELF, FULS 200 POUNDS. (4)HANGER TISELF, FULS 200 POUNDS. (1)HANGER TISELF, FULS 200 POUNDS. (1)OUTDOOR UNDERGROUND CONCRETE ENCASED, BELOW BUILDING OR AWAY FROM BUILDING - RMC, PVC (1)HOUTDOOR ABOVE GROUND FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC LFMC (3)OUTDOOR ABOVE GROUND FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC LFMC (6)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN 'BACK OF HOUSE' SPACES SUCH AS MECHANICAL, ELECTRICAL BASEMENTS, ATTICE, ETC RMC, MIT (6)INDOOR EXPOSED BELOW 10 FEET TO FLOOR - EMT, RA (6)INDOOR EXPOSED BELOW 10 FEET. OTHER THAN BACK OF HOUSE' SPACES SUCH AS MECHANICAL, ELECTRICAL BASEMENTS, ATTICE, ETC. RMC, ETT O FLOOR - EMT, RA (6)INDOOR EXPOSED BELOW 10 FEET. OTHER THAN BACK OF HOUSE SPACES - EMT (1)INDOR EXPOSED BELOW 10 FEET. OTHER THAN BACK OF HOUSE SPACES - EMT (7)INDOOR EXPOSED BELOW 10 FEET. TO FLOOR - EMT, RA (9)INDOOR CONCEALED HOMERUN TO PANELBOARD SAND FOR BRANCH CIRCUITS - EMT (10) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS,		BE HOT-DIPPED GALVANIZED THRO	UGHOUT. ALL U-BOLTS, CLAMPS, A	TTACHMENTS AND HARDWARE FOR	(7)P	ROVIDE CONDUCT			
(4)HANGERS AND HARDWARE SHALL BE IN ACCORDANCE WITH FEDERAL SPECIFICATIONS WW-H-1/ID. SIZES ACCORDINCLY AND NOTE CHANGES ON TECOND DRAWING E UTILIZATION (1)OUTDOOR UNDERGROUND CONCRETE ENCASED, BELOW BUILDING OR AWAY FROM BUILDING - RMC, PVC (2)OUTDOOR ABOVE GROUND EXPOSED OR CONCEALED - LMFC (2)OUTDOOR ABOVE GROUND FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, (3)OUTDOOR ABOVE GROUND FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, (4)INDOOR 500 VOLTS AND ABOVE CONCRETE ENCASED - RMC (4)INDOOR 500 VOLTS AND ABOVE CONCRETE ENCASED - RMC (6)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN "BACK OF HOUSE" SPACES SUCH AS MECHANICAL, (6)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN "BACK OF HOUSE" SPACES SUCH AS MECHANICAL, (6)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN "BACK OF HOUSE" SPACES SUCH AS MECHANICAL, (6)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN "BACK OF HOUSE" SPACES SUCH AS MECHANICAL, (7)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN "BACK OF HOUSE" SPACES SUCH AS MECHANICAL, (7)INDOOR EXPOSED BELOW 10 FEET TO FLOOR - EMT, RA (6)INDOOR CONCEALED HOMERUN TO PANELBOARDS AND FOR BRANCH CIRCUITS - EMT (1)MERE ME TYPE FLEXIBLE CARLED IS INSTALLED IN LIEU OF WIRE, SALLED EN NOT IN CURRENT, RANGE CONDUCTORS, STALL OR BUILDING, NOTORS, ETC., IN MORY AREAS - FMC (10) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MORY AREAS - FMC (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MORY AREAS - FMC <tr< th=""><th>с</th><th>SUPPORT A LOAD EQUAL TO OR GR</th><th>REATER THAN THE SUM OF THE WEI</th><th></th><th>(1)N (2)N</th><th>IO. 2 AWG AND LAR</th><th>RGER BASED ON C</th><th>COPPER OR ALUMI</th><th></th></tr<>	с	SUPPORT A LOAD EQUAL TO OR GR	REATER THAN THE SUM OF THE WEI		(1)N (2)N	IO. 2 AWG AND LAR	RGER BASED ON C	COPPER OR ALUMI	
E. UTILIZATION (1)OUTDOOR UNDERGROUND CONCRETE ENCASED, BELOW BUILDING OR AWAY FROM BUILDING - RMC, PVC (2)OUTDOOR ABOVE GROUND EXPOSED OR CONCEALED - LMFC (3)OUTDOOR ABOVE GROUND FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC LFMC (3)OUTDOOR ABOVE GROUND FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS ETC LFMC (4)INDOOR 600 VOLTS AND ABOVE CONCRETE ENCASED - RMC (5)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN TACK OF HOUSE" SPACES SUCH AS MECHANICAL. (6)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN TACK OF HOUSE" SPACES SUCH AS MECHANICAL. (7)INDOOR EXPOSED BELOW 10 FEET TO FLOOR - EMT, RA (8)INDOOR CONCEALED HOMERUN TO PANELBOARDS AND FOR BRANCH CIRCUITS - EMT (9)INDOOR CONCEALED HOMERUN TO PANELBOARDS AND FOR BRANCH CIRCUITS - EMT (10) INDOOR FLOOR - EMT, RA (11) INDOOR FLOOR CONCEALED HOMERUN TO PARELES AND LIGHT FIXTURE - MC (10) INDOOR FLOOR CONCEALED HOMERUN TO PARELES AND LIGHT FIXTURE - MC (10) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORNOSIVE ARBAS - LFMC (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN DRY AREAS - FMC (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORNOSIVE AREAS - LFMC		(4)HANGERS AND HARDWARE SHALL E	BE IN ACCORDANCE WITH FEDERAL	SPECIFICATIONS WW-H-1/1D.	S	IZES ACCORDINGL	LY AND NOTE CHA	NGES ON "RECOR	RD DRAWINGS."
(1)OUTDOOR UNDERGROUND CONCRETE ENCASED, BELOW BUILDING OR AWAY FROM BUILDING - RMC, PVC BE STRANDED. (2)OUTDOOR ABOVE GROUND EXPOSED OR CONCEALED - LMFC (6)PROVIDE THE FOLLOWING MINIMUM WIRE SIZES, EXCEPT WHERE SHOWN ON MANUFACTURER'S WIRING DIAGRAMS. ALL SIZES SHOULD STRANDED. (3)OUTDOOR ABOVE GROUND FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC LFMC (6)INDOOR ABOVE CONCRETE ENCASED - RMC (4)INDOOR 600 VOLTS AND ABOVE CONCRETE ENCASED - RMC • BRANCH CIRCUITS: ND. 12 AWG, WHEN PROTECTED BY A 15- CONCRETE ENCASED FOR TO FLOOR IN "BACK OF HOUSE" SPACES SUCH AS MECHANICAL, ELECTRICAL, BASEMENTS, ATTICS, ETC RMC, EMT (6)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN "BACK OF HOUSE" SPACES SUCH AS MECHANICAL, ELECTRICAL, BASEMENTS, ATTICS, ETC RMC, EMT • BRANCH CIRCUITS: ND. 12 AWG, WHEN PROTECTED BY A 15- CONCOURCE SPACES TO NO. 10 AWG TO OFFSET DERA. (6)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN "BACK OF HOUSE SPACES - EMT • BRANCH CIRCUITS: ND. 12 AWG, WHEN PROTECTED BY A 15- CONCOURCE SPACES AND THE THAN BACK OF HOUSE SPACES - EMT (6)INDOOR EXPOSED ABOVE 10 FEET TO FLOOR - EMT, RA • INORRASE CONDUCTORS ARE NOT TO FLOOR - EMT, RA (8)INDOOR CONCEALED HOMERUN TO PANELBOARDS AND FOR BRANCH CIRCUITS - EMT (1)WHE SIZES ARE RATED FOR 75 DEGRE C THMERET CARRYING CONDUCTORS. (10) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC. IN DRY AREAS - FMC (2)SERVICE FLEXIBLE CABLE IS INSTALLED IN LIEU OF WIRE, SOLENOIDS, MOTORS, ETC. IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC (2)SERVICE FLEXIBLE		E. UTILIZATION			Í SI M	HALL NOT BE ALLC	OWED, UNLESS AF PMENT).	PPROVED BY THE	TRADE THAT IS PROVID
B (3)OUTDOR ABOVE GROUND FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC LFMC UNLESS SPECIFICALLY NOTED OTHERWISE: - LOW VOLTAGE SWITCHING CIRCUITS: NO. 18 AWG. B (4)INDOOR 600 VOLTS AND ABOVE CONCRETE ENCASED - RMC - IS BRANCH CIRCUITS: NO. 12 AWG, WHEN PROTECTED BY A 15- CONCRETE ROM PANEL TO FIRST ELECTRICAL DEVICE IS 75 OR 150 FEET OR GREATER FOR 277 VOLT CIRCUITS, NO. 10 AWG. (5)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN "BACK OF HOUSE" SPACES SUCH AS MECHANICAL, ELECTRICAL, BASEMENTS, ATTICS, ETC RMC, EMT - IF DISTANCE FROM PANEL TO FIRST ELECTRICAL DEVICE IS 75 OR 150 FEET OR GREATER FOR 277 VOLT CIRCUITS, NO. 10 AWG. (6)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN "BACK OF HOUSE SPACES - EMT - CABLE FOR FIRE ALARM SYSTEMS AND OTHER SPECIAL INSTALLED IN SINGLE RACEWAY. (7)INDOOR EXPOSED ABOVE 10 FEET TO FLOOR - EMT, RA (8)INDOOR CONCEALED HOMERUN TO PANELBOARDS AND FOR BRANCH CIRCUITS - EMT (1)WHERE MC TYPE FLEXIBLE CABLE IS INSTALLED IN NEUSE WRITE TEMPERATURE RATURE RATIVE RATIVE RATURE RATIVE RATIVE RATURE RATIVE RATIVE RATURE CARTING CONDUCTORS. (10) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC 277.VOLTS 277.VOLTS 212.VOLTS PHASE (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC 277.VOLTS 212.VOLTS PHASE (1	—	(1)OUTDOOR UNDERGROUND CONCR	ETE ENCASED, BELOW BUILDING OF	R AWAY FROM BUILDING - RMC, PVC	B	E STRANDED.			
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 (b)INDOOR EXPOSED BELOW 10 FEET TO FLOOR IN BACK OF HOUSE' SPACES SUCH AS MECHANICAL, ELECTRICAL, BASEMENTS, ATTICS, ETC RMC, EMT (b)INDOOR EXPOSED BELOW 10 FEET, OTHER THAN BACK OF HOUSE SPACES - EMT (c)INDOOR EXPOSED ABOVE 10 FEET TO FLOOR - EMT, RA (d)INDOOR CONCEALED HOMERUN TO PANELBOARDS AND FOR BRANCH CIRCUITS - EMT (d)INDOOR CONCEALED HOMERUN TO PANELBOARDS AND FOR BRANCH CIRCUITS - EMT (d)INDOOR CONCEALED HOMERUN TO PANELBOARDS AND FOR BRANCH CIRCUITS - EMT (f)INDOOR CONCEALED FINAL BRANCH WIRING TO RECEPTACLES AND LIGHT FIXTURE - MC (g)INDOOR CONCEALED FINAL BRANCH WIRING TO RECEPTACLES AND LIGHT FIXTURE - MC (g)INDOOR S, ETC. IN DRY AREAS - FMC (h) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC. IN DRY AREAS - FMC (h) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC (h) MEDOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC (h) MEDOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC 		(4)INDOOR 600 VOLTS AND ABOVE CO	NCRETE ENCASED - RMC			IF DISTANCE FRO	OM PANEL TO FIRS	ST ELECTRICAL DE	EVICE IS 75 FEET OR G
(6)INDOOR EXPOSED BELOW 10 FEET, OTHER THAN BACK OF HOUSE SPACES - EMI SECTIONS OF SPECIFICATIONS, NOTED ON DRAWINGS, OR REC (7)INDOOR EXPOSED ABOVE 10 FEET TO FLOOR - EMT, RA - ALL WIRE SIZES ARE RATED FOR 75 DEGREE C TEMPERATURE TEMPERATURE RATINGS SHALL NOT BE USED UNLESS WRITTE (8)INDOOR CONCEALED HOMERUN TO PANELBOARDS AND FOR BRANCH CIRCUITS - EMT (1)WHERE MC TYPE FLEXIBLE CABLE IS INSTALLED IN LIEU OF WIRE, SHALL BE RUN WITH CURRENT CARRYING CONDUCTORS. (9)INDOOR CONCEALED FINAL BRANCH WIRING TO RECEPTACLES AND LIGHT FIXTURE - MC (2)SERVICE FEEDER AND BRANCH CIRCUIT CONDUCTORS THROUGH COLOR CODED AS FOLLOWS: (10) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC. IN DRY AREAS - FMC 277 VOLTS 120 VOLTS PHASE BROWN BLACK A (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC YELLOW BLUE C (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC GREY WHITE NEUTRAL GREEN GREEN GREEN GREEN GROUND				ACES SUCH AS MECHANICAL,	•	INCREASE COND	DUCTOR SIZES TO	NO.10 AWG TO OF	FFSET DERATING FACT
(7)INDOOR EXPOSED ABOVE 10 FEET TO FLOOR - EMT, RA TEMPERATURE RATINGS SHALL NOT BE USED UNLESS WRITTE (8)INDOOR CONCEALED HOMERUN TO PANELBOARDS AND FOR BRANCH CIRCUITS - EMT (1)WHERE MC TYPE FLEXIBLE CABLE IS INSTALLED IN LIEU OF WIRE. SHALL BE RUN WITH CURRENT CARRYING CONDUCTORS. (9)INDOOR CONCEALED FINAL BRANCH WIRING TO RECEPTACLES AND LIGHT FIXTURE - MC (2)SERVICE FEEDER AND BRANCH CIRCUIT CONDUCTORS THROUGH COLORD AS FOLLOWS: (10) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC. IN DRY AREAS - FMC 277 VOLTS PHASE (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC 9 BROWN BLACK A (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC GREY WHITE NEUTRAL GREEN	—	(6)INDOOR EXPOSED BELOW 10 FEET,	OTHER THAN BACK OF HOUSE SPA	CES - EMT		SECTIONS OF SP	PECIFICATIONS, N	OTED ON DRAWIN	IGS, OR RECOMMENDE
A (9)INDOOR CONCEALED FINAL BRANCH WIRING TO RECEPTACLES AND LIGHT FIXTURE - MC (2)SERVICE FEEDER AND BRANCH CIRCUIT CONDUCTORS. (10) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC. IN DRY AREAS - FMC 277 VOLTS 120 VOLTS PHASE (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC YELLOW BLUE C (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC YELLOW BLUE C GREEN GREEN GREEN GROUND		(7)INDOOR EXPOSED ABOVE 10 FEET	TO FLOOR - EMT, RA		•				
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(10) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, Image: Connection to vibrating equipment: transformers, BROWN BLACK A 0RANGE RED B (11) INDOOR FINAL CONNECTION TO VIBRATING EQUIPMENT: TRANSFORMERS, YELLOW BLUE C SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC GREY WHITE NEUTRAL GREEN GREEN GREEN GROUND	A				Ć	OLOR CODED AS F	FOLLOWS:		
SOLENOIDS, MOTORS, ETC., IN MOIST, HUMID, WET, OR CORROSIVE AREAS - LFMC GREEN GREEN GREEN GREEN GROUND				INLITE TIVINOI UNIVIENO,	0	RANGE	BLACK	в	A
				,	G	BREY	WHITE	С	
15 14 13 12 11	L	15	14	13	1			11	1(

14	13	12	11	10	9		8	7		6	5	4	3	2	1	<u> </u>
		(12) BOXES. MAXIMUM S AND ARCHITECT - R	IZES AND LOCATIONS OF CONDUIT	LABS, OR CONNECTIONS TO CAST-IN SUBJECT TO APPROVAL BY STRUCT		D.CABLE SPLICING AN (1)SPLICES IN WIRE CONNECTORS, "S	SIZES NO. 8 AWG AND SMAL	LLER SHALL BE MADE W	/ITH INSULATED SPRING	TYPE WIRE	F. PROVIDE NEW HANGERS FOR NEW A HANGERS UP TO STRUCTURE PER A		E LOCATIONS. PROVIDE NO LESS THAN TWO			
BLE EQUIPMENT REGARDLES	SS OF WHICH TRADE HAS FURNISHED	(13)	HAZARDOUS AREAS -			(2)SPLICES IN LARG	GER WIRE AND CABLES SHALI	L BE MADE WITH INDEN	IT CONNECTORS APPRO	/ED FOR THE	G.SUPPORT FIXTURES IN SUSPENDED CEILING SYSTEMS. LAY-IN FIXTURES		S OR TIE BARS ATTACHED TO RUNNERS OF RTHQUAKE CLIPS".			
ES SHOWN ON THE DRAWIN	NGS OR AS RECOMMENDED BY	(14) TERRAZZO - RMC	TERRAZZO FLOOR WI	TH CONDUIT ROUTED UNDERNEATH	NOT WITHIN	PURPOSE. (3)ALL INSULATING	TAPE USED ON 600 VOLTS AI	AND LESS SHALL BE 3-M	#88 OR PLYMOUTH SLIPI	(NOT GRAY.	H. ALL RECESSED FIXTURES SHALL BE CONNECTED TO THE BRANCH WIRING SYSTEM VIA A 6'-0" FLEXIBLE CONDUIT. A MAXIMUM OF FOUR (4) FIXTURES MAY BE CONNECTED TO A SINGLE OUTLET BOX.					к
(15) FIRE ALARM INITIATING CIRCUITS AND SIGNALING CIRCUITS - EMT BUSSMAN MANUFACTURING CO., FERRAZ SHAWMUT, OR CEFCO. (16) FIRE ALARM SYSTEM AUTO DIALER TELEPHONE CIRCUIT - RMC							ERIALS FOR SPLICES AND CO			,			SULATED "WIRE NUT" TYPE MECHANICAL ONDITIONS TO WHICH THEY ARE SUBJECTED			DE
E) OF EACH SIZE AND TYPE.	CH SIZE AND TYPE. SPARE FUSES SHALL BE TURNED F. INSTALLATION					MANUFACTURER	'S RECOMMENDATIONS.			_	J. ALL PENDANT MOUNTED FIXTURES CANOPIES. NO CHAINS WILL BE PER		GID CONDUIT STEMS AND BALL ALIGNER TYPE			50 SC
		EXPOSED ON DRAW		ONCEALED, EXCEPT WHERE SHOWN RIZONTALLY AND VERTICALLY SQUAF			/ITHOUT RINGING OR NICKING	IG CONDUCTOR. REDO	DAMAGED CONDUCTOR	5.			FIXTURES FROM THE GRID SUPPORT SYSTEM	I.		FOUN RENE RENE
ND HAVE AN INTERRUPTING	CAPACITY OF AT LEAST 200,000	LINES. (2)THE SIZE OF EACH F	RUN OF CONDUIT OR EMT SHALL BI	E THE LARGER OF THE FOLLOWING:		WIRE BRUSH	DUND: PREPARE WIRE IN ACC PLATED LUGS. REMOVE EXC RGIZING SYSTEM.				IF IMPOSSIBLE, CONTACT ARCHITEC		OR CEILING SUPPORTS, RELOCATE SUPPORTS NECTOR LIGHT FIXTURES UNDER LOW	5.		SARA SARA
D RATINGS SHALL BE SUCH	THAT POSITIVE SELECTIVE	THE MINIMUM SIZ SYSTEM.	ZE, WHICH SHALL BE 3/4 IN UNLESS	OTHERWISE SPECIFIED FOR PARTIC	JLAR ITEM OR		NDY HY-PLUG TYPE AYP OR IT LUGS. ALLOW FOR EXTRA				DUCTWORK. M.ALL BUILDING STANDARD LIGHT FIX	TURES AND EXIT SIGNS IN GOOI	D WORKING CONDITION THAT ARE NOT BEING	i		© CC ANY U
		THE SIZE NOTED	ON THE DRAWINGS.			E.INSTALLATION	LES CONNECTED TO EQUIPM		0 TO 480 VOLTS SHALL BI	FRATED AT 600	REUSED SHALL BE RETURNED TO B					DOCU WRIT
		SPECIFIED OR RE	EQUIRED. ELECTRICAL CONTRACTO	E THE NUMBER, SIZE AND TYPE OF V DR SHALL ADJUST CONDUIT SIZE FOF	CONDUIT FILL AND	VOLTS MINIMUM. WIRES OR CABLE	WHERE SPECIFIED OR WHEI ES MAY BE INSULATED FOR 3 /OLTAGE SYSTEMS.	ERE THE OPERATING VC	OLTAGE IS LESS THAN 100) VOLTS, THE	ENGINEER OR BUILDING MANAGEME	ENT IN WRITTEN FORM.	G AND EXIT SIGN REQUIREMENTS. REPLACE			
OT DIP GALVANIZED, THREA	DED, MINIMUM 3/4".		NUMBER OF HOT CURRENT CONDU	CTORS, VOLTAGE DROP AND DERATI	IG OF THE	()	LES FOR SECONDARY SERVIO	-)	NCH CIRCUIT SHALL BE S	INGLE	ALL EXISTING BATTERY PACKS FOR	EXISTING AND RELOCATED LIGH REMODELED AREA. IF NEW FIXT	,			
IVE COATS OF ASPHALTUM	COMPOUND WHERE LOCATED		SHALL BE IN ELECTRICAL METALLIG			(3)BRANCH CIRCUIT	FEEDERS ROUTED UNDER F	RAISED FLOOR IN DATA					ED PER CODE. BATTERY PACKS SHALL BE SHTING CIRCUIT SERVING THE RESPECTIVE			
		G.EXPANSION JOINTS				NOTED.			DECCAL CODES UNLESS	OTHERWISE	AREA AND PER NEC REQUIREMENTS	S.				
ANIZED, THREADLESS, MININ	/IUM 3/4", MAXIMUM 2".		ON JOINTS FOR ALL CONDUITS CRO	SSING STRUCTURAL EXPANSION JOI	ITS, AND IN ALL	(4)PROVIDE SEPARA	ATE NEUTRAL FOR ALL CIRCU	UITS.			Q.INSPECT ALL EXISTING AND RELOCA COMPONENTS AS REQUIRED TO MA	- , -	N LENSES AND REPLACE ALL NECESSARY THROUGHOUT SPACE.			— NO1
TED ABOVE 600 VOLTS.		()	,	QUIPMENT GROUNDING CONDUCTOF		BOXES AND AT T	DENTIFYING TAGS SHALL BE ERMINATIONS. TAGS SHALL E R MARKED SO THAT THE CAE	BE STAMPED OR EMBO	SSED TO CORRESPOND	WITH MARKINGS		TANDARD MANUFACTURER THRO	EX (CRI) AND COLOR TEMPERATURE (KELVIN) OUGHOUT THE REMODELED AREA. VERIFY FURER WITH BUILDING ENGINEER.			CON
T DIP GALVANIZED INSIDE A	ND OUTSIDE, THREADED, MINIMUM 3/4".	H.FITTINGS				PROVIDED, THEY MONOFILAMENT	' SHALL BE ATTACHED BY AP LINE ATTACHED TO TAG, USI FIC CABLE LACING UNIT.	PPROXIMATELY 1/32 IN D	DIAMETER NYLON 55 POU	ND TEST	15. COMMUNICATIONS					
IVE COATS OF ASPHALTUM	COMPOUND WHERE LOCATED	(1)ONLY THREADED FI	TTINGS SHALL BE USED WITH IMC.				ETHODS OT LARGER THAN NO. 10 AW0 UCTORS LARGER THAN NO. 1					NSULATED BUSHING SIX INES AB	BOVE BOTTOM OF HUNG CEILING AND DRAG			
BE CONTINUOUS SINGLE ST	RIP, GALVANIZED, MINIMUM 3/4".	()	ADED COUPLINGS SHALL BE USED ONS WHEN STANDARD THREADED (TO JOIN TWO CONDUITS COMING TO COUPLINGS CAN NOT BE USED.	GETHER FROM	CABLED AS INDIV	/IDUAL CIRCUITS. BUNDLING HING NYLON. EACH STRAP SI	AND CABLING SHALL B	E DONE WITH STRAPS M	ADE OF	AND STUB-UP WITH VENDOR. ALL C	ABLE, CONNECTORS, OUTLETS A	TE SIZE AND QUANTITY OF JUNCTION BOX AND FINAL CONNECTIONS ARE BY OTHERS.			
,	CORE OF FLEXIBLE GALVANIZED SHEET NYL CHLORIDE (PVC). FLEXIBLE METAL W-C-566 AND UL-360.	SHALL NOT BE USE	D. SPLIT COUPLINGS SHALL NOT BE	NDUITS. CONDUIT NIPPLES WITH RU USED UNLESS SPECIFICALLY APPRO COUPLINGS CAN NOT BE EMPLOYED	VED BY THE	DISCONNECT SW	RING TO AND BETWEEN MOT (ITCHES AND OTHER RELATE), OR EXISTING TO REMAIN.	- , ,		- ,	PROVIDE 4" SQUARE X 2-1/8"JUNCTIO	EPHONE AND DATA SERVICE PC ON BOX WITH TWO 1" CONDUITS	N N N N N N N N N N N N N N N N N N N			
LIQUID-TIGHT FLEXIBLE CON	NLY, RAIN AND CONCRETE TIGHT AND NDUIT SHALL BE IN ACCORDANCE WITH HREADED GROUND CONE, A STEEL OR	10. BOXES				(-)	ND BRANCH CIRCUIT WIRING L SYSTEMS, SHALL BE TAGG					· · ·	NDUIT ABOVE CEILING LINE AND BUSH. /ITH TELECOMMUNICATIONS CONTRACTOR			
	S SHALL BE MADE OF STEEL ONLY	A.PULL BOXES	SED TO RAIN OR INSTALLED IN WET	LOCATIONS SHALL BE OF CAST VAPO	R TIGHT TYPE	WITH SYMBOLS A	AND DESIGNATIONS SHOWN (ON THE DRAWINGS OR	AS DIRECTED BY THE EN	IGINEER.	CONTRACTOR SHALL BE RESPONSI	BLE FOR COORDINATING JUNCT	ED BY TENANT'S VENDOR. THE ELECTRICAL ION BOX ROUGH-IN, CONDUIT RACEWAY'S,			G
NOT BE USED ON EMT, FLE	X AND MC CONDUIT.	()	ECTED TO CONCEALED CONDUITS \$	SHALL BE PROVIDED WITH ACCESS B		A. ALL ELECTRICAL INS	STALLATIONS SHALL BE GRO			CODE, LOCAL		ZED PRESSED STEEL, 4" SQUARE	E X 1-1/2" DEEP MINIMUM, WITH SINGLE GANG			
HALL BE IN ACCORDANCE W ISULATED THROATS.	/ITH FEDERAL SPECIFICATION W-F-406B		HALL BE HOT DIPPED GALVANIZED S	B. A COMPLETE GROU	RITIES AND THE REQUIREME	ISTALLED TO PROVIDE (GROUNDING FOR EQUIPN		RINGS AND A 3/4" CONDUIT WITH PU CONTRACTOR OR TENANT. STUB CO TELECOMMUNICATION CONTRACTO	ONDUIT 6" ABOVE CEILING LINE						
BE USED ON ANY TYPE OF I	RIGID FLEXIBLE CONDUIT.	B.INSTALLATION					E PROPOSED INSTALLATION. NG SYSTEM SERVING THIS PI		TEM IS TO BE CONNECTE	D TO THE	DEVICE WITH TELECOMMUNICATION		NE PORTS TO BE INCLUDED IN POKE-THRU APPROPRIATE POKE-THRU DEVICES PRIOR			
TITTING-CROUSE HINDS, TYF	PE XD OR O.Z. TYPE DX.	(1)WHERE CONCEALED CONDUITS ARE TO BE CONNECTED TO A SURFACE WITH MOUNTED CABINET, A FLUSH CABINET BACKPLATE SHALL BE PROVIDED WITH AN ACCESSIBLE OPENING OF SIZE TO MATCH THE PULL BO							IF NOTED, THE AWINGS. THE	TO ORDERING. G.ALL TEL/DATA INSTALLATIONS SHAL	LL BE COORDINATED WITH THE F	RESPECTIVE VENDOR PRIOR TO			F	
ITY TYPE EF OR O.Z., TYPE E	EX.			RIDS OR OTHER SUPPORTS TO WHIC PPORTED LENGTH OF MORE THAN 30		DEVICES. ENSURE F	LL BE CONNECTED FROM THI FULL SIZE GROUND BUS HAS EQUIRED, PROVIDE GROUND	BEEN INSTALLED PER I	NEC IN ALL ELECTRICAL	PANELS (NEW R NEC. ARTICLE	INSTALLATION. 16. FIRE ALARM					
		()	Y COMPANY OR ANY OTHER AGEN OXES, THEY SHALL BE PROVIDED.	CY REQUIRE BARRIERS BETWEEN GF	OUPS OF		L BOXES, JUNCTION BOXES			BONDING	A.GENERAL CONTRACTOR SHALL SOL		ER'S DESIGNATED FIRE ALARM CONTRACTOR			
IALL BE FIRE STOPPED ONC	RPOSE OF ROUTING ELECTRICAL E SERVICE CONDUITS, SLEEVES, OR LING AFTER CONDUIT OR CABLING HAS	C.OUTLET BOXES					D TO CONDUIT BY MEANS OF ITY OF THE EQUIPMENT GRO		S OR GROUND CLAMPS,	TO MAINTAIN THE	WITH ALL APPLICABLE CODES AND A	ALL REQUIREMENTS OF AUTHOR	STEM AND DEVICES WHICH SHALL COMPLY RITIES HAVING JURISDICTION. GENERAL ING DESIGNATED FIRE ALARM CONTRACTOR			
,	ATING EQUAL TO THE MATERIAL OF		URE BOXES WITH BAR HANGERS. A	EL, 4" SQUARE X 1-1/2" DEEP MINIMUN ADD SINGLE-GANG RING FOR ALL NE		13. WIRING DEVICES					B. REQUIRED MODIFICATIONS TO EXIS	TING FIRE ALARM SYSTEM SHAL	L BE PROVIDED ON A DESIGN/BUILD BASIS BY	(
	E OF WATER, SMOKE AND FUMES. NISHED ROOMS, THE FINISH OF THE	(2)FLOOR BOXES SHAL	LL BE OF THE CAST TYPE WITH THR	READED CONDUIT ENTRIES FOR FLUS	HDOOR	RATED UNLESS OTH	ALL DEVICES (SWITCHES, RE IERWISE SPECIFIED OR DIRE D BY CHIEF BUILDING ENGIN	ECTED BY BUILDING EN	GINEER. COLOR AND DE		,		EXISTING FIRE ALARM SYSTEM CAPABILITY			
	CEILING OR WALL FINISHES. "CHASE FOAM" TYPE CTC PR-855	11. 600 VOLT WIRE AND C	ANGE FOR THE FLOOR MATERIAL S ABLE	PEGIFIED.		B.NEW POWER, DATA	AND COMMUNICATIONS DEV (FROM FLOOR TO CENTERLI	/ICES, FLUSH OR SURFA	ACE MOUNTED ON WALLS	,	AND FIRE ALARM DEVICE LOCATION ALARM SYSTEM SHALL BE UPGRADE		REQUIRED BY LOCAL JURISDICTION, FIRE			
			ABLE COMPRISED OF COPPER OR A STM AND IPCEA STANDARDS.	LUMINUM CONDUCTORS, PER DRAW	NGS, IN	48" A.F.F., IN ORDER	TO COMPLOOR TO CENTERLI TO COMPLY WITH ADA REQU TO ARCHITECTURAL DRAWIN	UIREMENTS, UNLESS O	THERWISE NOTED ON AF		STROBES, SPEAKERS, ETC., BASED EXISTING SYSTEM AS REQUIRED. AL	ON REMODELED AREA MODIFIC	NDICATOR LIGHTS, FIRE ALARM HORNS, ATION. RECONNECT RELOCATED DEVICES TO HALL BE OF THE SAME MANUFACTURER AS)		$- \geq$
	ILE IRON PIPE WHEN THEY ARE	B.INSULATION SHALL BE	TYPE RECOGNIZED BY NEC AS APP		,	C. PROVIDE TAMPER-F	RESISTANT RECEPTACLES WI	/HERE REQUIRED BY NE	EC AND LOCAL CODES.		REQUIRED. PROVIDE SYNCHRONIZIN	IAM'S AND OTHER EQUIPMENT N NG MODULES FOR STROBES. IF I	ECESSARY IN ORDER TO EXPAND SYSTEM AS REQUIRED, REPLACE EXISTING FIRE ALARM	3		$\bigcap $
ATIONS. IN OTHER LOCATION AVING LOCK SEAM JOINTS.	NS, SLEEVES SHALL BE CONSTRUCTED	(1)FEEDERS AND ALL E (2)USE OF RWH OR SIN	BRANCH WIRING: TYPE THW, OR TH	NSULATION RATINGS OR VALUES AS HNN, THWN OR XHHW. E IS ACCEPTABLE WHERE ALLOWED A		D. WHERE MORE THAN OF DEVICES AS REC	I ONE DEVICE IS BEING INSTA QUIRED.	ALLED, PROVIDE MULTI	PLE GANG DEVICE PLATE	ES FOR NUMBER	FIRE ALARM DEVICES.	Y BUILDING STANDARD OR COM	IPATIBLE WITH NEW BUILDING STANDARD			D T
	ATELY FROM BUILDING STRUCTURE	CODE. (3)WIRING IN LIGHTING VOLT.	G FIXTURE CHANNELS: TYPE THHN,	OR OTHER RATED 90 DEGREE C OR	GREATER, 600		HALL BE BRUSHED STAINLES				OR NEW FIRE ALARM SYSTEM. MOD MANUFACTURER'S REQUIREMENTS.	IFY EXISTING ALARM CIRCUIT CO	GH INTENSITY, COMPATIBLE WITH EXISTING ONDUCTORS AND FIRE ALARM PANEL PER			
		TYPE AVL IN WET, 6	00 VOLT.	N 90 DEGREE C: TYPE AVA IN DRY LC			ERS ARE REQUIRED, PROVID				F. REPLACE EXISTING STROBE LIGHTS STROBE LIGHTS ARE SYNCHRONIZE		D COLOR STROBE LIGHTS AND ENSURE ALL			ISSUANCE FOR CO
	DERAL SPECIFICATION PF-S-760A.	(6)FLAME RETARDANT	TAGE SYSTEMS, PROVIDE 600 VOLT AND MOISTURE RESISTANT IN ELE TORS OF SAME INSULATION TYPE IF	VATOR MACHINE ROOMS, PER NEC A	RTICLE 620.	NIPPLE (LENGTH AS TO MINIMIZE SOUNE	REQUIRED) TO OFFSET FOR TRANSMISSION.	R ALL OUTLETS SHOWN	ON OPPOSITE SIDES OF	A COMMON WALL	SHOP DRAWINGS, EQUIPMENT BROO JURISDICTION, SUCH AS FIRE DEPA	CHURES, AND SEQUENCE OF OF RTMENT, BUILDING DEPARTMEN	ACTOR SHALL PREPARE AND SUBMIT ALL PERATION TO ALL AUTHORITIES HAVING IT, ETC., AS REQUIRED, FOR REVIEW AND			
BE PROVIDED. EACH MULTI	TACHMENTS AND HARDWARE FOR PLE HANGER SHALL BE DESIGNED TO GHTS OF THE CONDUITS, WIRES AND	C.CONDUCTORS (1)NO. 4 AWG AND SMA					ACLES WITH PANEL DESIGNA BELS SHALL BE BLACK TEXT (APPROVAL. CONTRACTOR SHALL AL CALCULATIONS AND EQUIPMENT SU					
CORDANCE WITH FEDERAL	SPECIFICATIONS WW-H-1/1D.	(3)CONTRACTOR MAY SIZES ACCORDINGL	Y AND NOTE CHANGES ON "RECOR	PER ON EQUAL AMPACITY BASIS. INC		PREPARATION AREA	HASE, 15 AND 20 AMPERE RE AS, AT VENDING MACHINES, A LT CIRCUIT-INTERRUPTER PF	AT EXTERIOR OF THE B	UILDING OR WITHIN 6'-0"	OF SINK SHALL		INISHED FLOOR. WHERE LOW CE	ITIRE LENS IS NOT LESS THAN 80" AND NOT EILING HEIGHTS DO NOT PERMIT WALL HIN 6".			C
		SHALL NOT BE ALLC MECHANICAL EQUIP	OWED, UNLESS APPROVED BY THE PMENT).	SOLID: NO. 6 AWG AND LARGER CO	PMENT (I.E.	TELEPHONE/DATA, A	ED WIREMOLD POKE-THRUS, 1 AT EACH FURNITURE SYSTEN LEPHONE/DATA AS SHOWN (M SERVICE CONNECTIO	N FOR POWER AND ANO	THER SEPARATE	INDICATING LIGHT AND TEST SWITC	H, FOR ALL MECHANICAL AIR-MC	T DETECTORS (120V OR 24V), WITH REMOTE OVING SYSTEMS WHERE REQUIRED BY CODE IUFACTURER OF THE EXISTING FIRE ALARM			
ASED, BELOW BUILDING OR	AWAY FROM BUILDING - RMC, PVC	BE STRANDED. (6)PROVIDE THE FOLLO	OWING MINIMUM WIRE SIZES, EXCE	PT WHERE OTHERWISE NOTED ON D	RAWINGS, OR	PROVIDED WITH PR DEVICE SHALL BE P	LEPHONE/DATA AS SHOWN C OVISION OF A 3/4" POWER WI ROVIDED WITH 2" CONDUIT S RAWINGS FOR EXACT LOCATI	/HIP CONNECTION. CON SLEEVE FOR PHONE/DA	IDUIT AND THE PHONE/DA TA CABLING. REFER TO	ATA POKE-THRU	HARDWIRE DETECTOR TO THE FAN	SHUTDOWN UPON DETECTION OF MOTOR (THROUGH A POWER-IN	OF SMOKE. ELECTRICAL CONTRACTOR SHALL ITERRUPTING RELAY) FOR SHUTDOWN UPON			<u> </u>
	IENT: TRANSFORMERS, SOLENOIDS,	UNLESS SPECIFICAL LOW VOLTAGE S¹ 	LLY NOTED OTHERWISE: WITCHING CIRCUITS: NO. 18 AWG.			14. LIGHTING FIXTURE					ALARM SYSTEM AS TROUBLE ALARM	M. COORDINATE ALL REQUIREM M REPRESENTATIVE. SUBMIT DR	RM CONTRACTOR SHALL CONNECT TO FIRE IENTS AND SPECIFICATIONS WITH BUILDING RAWINGS AND EQUIPMENT CUT SHEETS FOR			
ENCASED - RMC		RECOMMENDATI	ONS.	D BY A 15- OR 20-AMP CIRCUIT BREAK		A.PROVIDE ALL LIGHT	ING FIXTURES AS SPECIFIED	D BY ARCHITECT AND SH	HOWN ON DRAWINGS.		J. IF A PRE-ACTION DRY-PIPE FIRE SPF	RINKLER SYSTEM IS REQUIRED F				В
OR IN "BACK OF HOUSE" SPA MC, EMT	CES SUCH AS MECHANICAL,	OR 150 FEET OR • INCREASE COND	GREATER FOR 277 VOLT CIRCUITS OUCTOR SIZES TO NO.10 AWG TO OF	EVICE IS 75 FEET OR GREATER FOR 1 , NO. 10 AWG WIRING SHALL BE INST FFSET DERATING FACTOR WHERE M	LLED.	COMPLIANCE WITH	FIXTURES RECOMMENDED E UL, ENERGY MODEL/COMCHE APPLICABLE). THE CONTRAC	IECK, DESIGNED FOOT	CANDLE LEVELS AND ALL	LEED	PRE-ACTION FIRE ALARM SYSTEM C CONTROL PANEL (FACP) IN THE FIRE		IATED ON THE BUILDING MAIN FIRE ALARM			
THAN BACK OF HOUSE SPA	CES - EMT	CABLE FOR FIRE		EWAY. CIAL INSTALLATIONS: AS DESCRIBEI IGS, OR RECOMMENDED BY MANUFA			IRES SHALL HAVE VALID WAF				SYSTEM AND CRAC UNITS SHALL BE PRE-ACTION FIRE ALARM CONTROL	E CONNECTED TO THE BUILDING PANEL. THE UPS SYSTEM AND C	CRAC UNITS SERVING THE COMPUTER ROOM			
DR - EMT, RA				PERATURE UNLESS OTHERWISE NO SS WRITTEN APPROVAL IS GIVEN BY		HARDWARE. ELECT	ALL LIGHTING FIXTURES COM RICAL CONTRACTOR SHALL S S BEEN AWARDED, TO ENGIN	SUBMIT FIXTURE CUT S	HEETS, WITHIN THREE W	ORKING DAYS	PROVIDE WIRING FROM CRAC UNIT MECHANICAL CONTROL AND ALARM	TO MOISTURE SENSORS OR SIT	ROVIDE INTERFACE WIRING AS REQUIRED. E LINK IF IT IS PROVIDED UNDER ALL SHUT DOWN AND ALARM UPON DUCT OF THE ABOVE WITH APPROPRIATE UPS.			
30ARDS AND FOR BRANCH (SHALL BE RUN WITH	H CURRENT CARRYING CONDUCTO	U OF WIRE AND CONDUIT, FULL-SIZE RS. S THROUGHOUT THE ELECTRICAL SY		ORDERING THE FIXT ORDERED WITHIN T MOUNTING REQUIRE	FURES. AFTER RECEIVING FIN WO WORKING DAYS. ELECTF EMENTS, FINISHES, FIXTURE	INAL APPROVAL FROM A RICAL CONTRACTOR SH AVAILABILITY AND LEA	ARCHITECT, LIGHT FIXTUI HALL ALSO VERIFY QUAN D TIME FOR DELIVERY TO	RES SHALL BE TITIES,) SITE. WHERE	PDU AND CRAC UNIT MANUFACTURE					
NAL CONNECTION TO VIBRA	ATING EQUIPMENT: TRANSFORMERS,	COLOR CODED AS F 277 VOLTS	FOLLOWS: <u>120 VOLTS</u> PHASE			MANAGEMENT FOR	ARE STOCKPILED IN THE BU PURCHASE OF SUCH FIXTUR	RES FOR INSTALLATION	ON THE PROJECT AS AP	PLICABLE.			S AND REQUIREMENTS FOR ALL JUNCTION		TRUE PROJECT NORTH NORTH	A sheet title: SPECIF
FMC	ATING EQUIPMENT: TRANSFORMERS,	BROWN ORANGE YELLOW	BLACK RED B BLUE C	~		D.LIGHTING FIXTURE (THEY ARE APPLIED.	COMPONENTS SHALL BE SUIT	ITABLE FOR THE VOLTA	GE OF THE BUILDING CIR	CUITS TO WHICH	SECURITY CONTRACTOR PRIOR TO SECURITY CONTRACTOR FOR INTER	ROUGH-IN. THE FIRE ALARM CO RFACING SECURITY SYSTEM WIT	QUIREMENTS FOR SECURITY SYSTEM WITH INTRACTOR SHALL ALSO COORDINATE WITH TH FIRE ALARM SYSTEM AS REQUIRED PER			
ID, WET, OR CORROSIVE AR		GREY GREEN	WHITE GREEN	NEUTRAL GROUND		E. ALL LIGHT FIXTURE BUILDING ENGINEEF	LAMPS SHALL BE BUILDING S	STANDARD MANUFACT			LOCAL CODES AND FIRE DEPARTME	LIN I .			\checkmark	



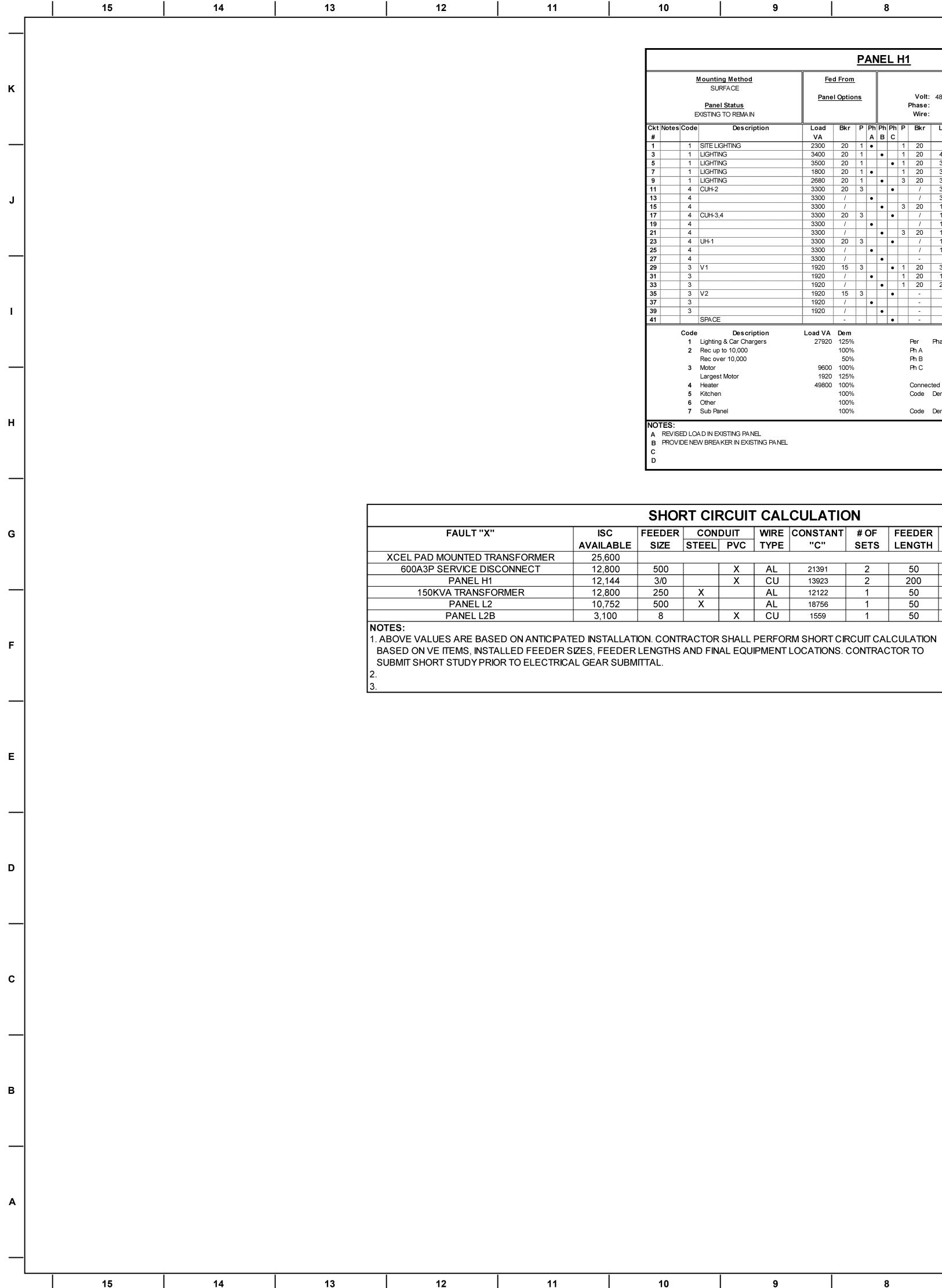
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κ	GENERAL NOTES:	one-line - general notes:	POWER – GENERAL NOTES:	LIGHTING – GENERAL NOTES:	DEMOLITION - GENERAL NC
	 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO THE START-UP OF THE CONSTRUCTION PROJECT FOR RULES AND REGULATIONS. REFER TO BUILDING STANDARDS, SAFETY, NEC, LOCAL, AND OTHER APPLICABLE CODES. 	 NOT ALL RISER OFFSETS OR SUPPORT BOXES ARE SHOWN. THE CONTRACTOR SHALL PROVIDE OFFSETS AND SUPPORT BOXES AS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FIELD CONDITIONS AND INCLUDING ALL NECESSARY OFFSET COSTS IN THE BID PRICE. 	 THE ELECTRICAL CONTRACTOR SHALL PROVIDE PRINTED LABELS FOR ALL ELECTRICAL RECEPTACLES AND SWITCHES WITH PANEL DESIGNATION AND CIRCUIT NUMBER ON THE COVER PLATE. COORDINATE LABEL PLACEMENT WITH OWNER. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION. 	1. ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE PER IBC, UBC, AND NEC.	 PRIOR TO BID, THE CONTRACTOR SHALL VERIFY ALL WORK ASSOCIAT CONDITIONS TO DETERMINE NECESSARY WORK. ANY DISCREPANCIE SITE SHALL BE BROUGHT UP TO THE ARCHITECT'S AND ENGINEER'S A BID.
	2. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. LOCATIONS SHOWN FOR ELECTRICAL EQUIPMENT, DEVICES, CIRCUITING, FIXTURES, ETC., ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND MILLWORK SHOP DRAWINGS. ALL DIMENSIONS ARE TO BE TAKEN OFF THE ARCHITECTURAL PLANS OR THE MANUFACTURER'S	 CONDUIT SEGMENTS ARE SHOWN ON ONE-LINES FOR REFERENCE ONLY. CONTRACTOR TO DETERMINE AND PROVIDE FINAL ROUTING. REFER TO FEEDER TABLE FOR FEEDER AND CONDUIT SIZES. 	2. THE ELECTRICAL CONTRACTOR SHALL REFER TO OTHER DESIGN TEAM DRAWINGS FOR LOCATIONS OF OWNER'S EQUIPMENT AND FURNITURE SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VERIFY FINAL FIELD CONDITIONS AND COORDINATE THE EXACT LOCATION WITH THE APPROPRIATE CONTRACTOR PRIOR TO ROUGH-IN.	 INSPECT ALL EXISTING AND RELOCATED FIXTURES. RELAMP, CLEAN LENSES AND REPLACE ALL NECESSARY COMPONENTS AS REQUIRED TO MAINTAIN LIKE-NEW APPEARANCE THROUGHOUT SPACE. ENSURE THAT ALL LAMPS HAVE THE SAME COLOR TEMPERATURE (KELVIN) THROUGHOUT. 	 UP-TO-DATE AS-BUILT ELECTRICAL PLANS ARE NOT AVAILABLE FOR INFORMATION FOR THE EXISTING CIRCUITRY IS BASED ON EXISTING DIRECTORIES, AVAILABLE DRAWINGS, AND ASSUMPTIONS. IF SIGNIF DISCREPANCIES ARE FOUND THAT CANNOT BE EASILY RESOLVED, C ARCHITECT OR ENGINEER.
	 SHOP DRAWINGS. DO NOT SCALE OFF THE ELECTRICAL PLANS. 3. UPON COMPLETION OF THE PROJECT, THE OWNER SHALL BE ISSUED WITH UPDATED PANEL SCHEDULES, AS-BUILT DRAWINGS, CATALOG CUTS SHEETS, WARRANTIES, AND OPERATING INSTRUCTIONS FOR ANY INSTALLED EQUIPMENT. THIS SHALL BE ISSUED PRIOR TO THE 	 REFER TO TRANSFORMER TABLE FOR FEEDER AND CONDUIT SIZES. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT VOLTAGE DROP FOR FEEDERS TO DISTRIBUTION EQUIPMENT DOES NOT EXCEED 2%. VOLTAGE DROP IN BRANCH CIRCUITING DOES NOT EXCEED 3%. OVERALL VOLTAGE DROP SHALL BE MAXIMUM OF 5%. INDICATED 	 PRIOR TO X-RAYING/GPR SCANNING, CHOPPING, OR CORE-DRILLING, THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND SCHEDULE WITH THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE DISCONNECTS ARE INDICATED IN DRAWINGS, CONTRACTOR SHALL PROVIDE FINAL 	 WHERE LIGHT FIXTURE LOCATION INTERFERES WITH DUCTWORK OR CEILING SUPPORTS, CONTACT THE DESIGN TEAM FOR WORK COORDINATION. COORDINATE INSTALLATION WITH APPROPRIATE CONTRACTOR. LOWERCASE LETTER ADJACENT TO SWITCH INDICATES CONTROL OF LIGHT FIXTURES 	 REFER TO OTHER DISCIPLINES, IF APPLICABLE, FOR ADDITIONAL DEI INFORMATION INCLUDING AREAS TO BE DEMOLISHED. ALL CIRCUIT BREAKERS THAT ARE SPARES SHALL BE TURNED OFF A
J	 REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE SPECIFICATIONS UNLESS OTHERWISE 	 6. INDICATED FEEDER LENGTHS IN SHORT CIRCUIT CALCULATIONS ARE FOR DESIGN 	 WHERE DISCONNECTS ARE INDICATED IN DRAWINGS, CONTRACTOR SHALL PROVIDE FINAL CONNECTION FROM DISCONNECT TO THE EQUIPMENT BEING SERVED. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. THE CONTRACTOR SHALL COORDINATE 	WITH MATCHING LOWERCASE LETTER. WHERE NO LOWERCASE LETTERING IS SHOWN (EITHER ON THE FIXTURE OR ADJACENT TO SWITCHES), THE SWITCH IS ASSUMED TO BE DEDICATED TO THE FIXTURES IN THE LOCAL/CONFINED AREA.	 ALL CIRCUIT BREAKERS THAT ARE SPARES SHALL BE TURNED OFF A MARKED ON THE REVISED PANEL DIRECTORIES. THE CONTRACTOR SHALL DEMOLISH ALL UNUSED POWER FEEDERS CABLING, CABLE SUPPORTS, CONDUIT, JUNCTION BOXES, AND ASSO
	 DIRECTED BY THE ENGINEER IN WRITTEN FORM. 5. ENSURE THAT ALL NEW DEVICES ARE INSTALLED PLUMB, SQUARE, AND AT THE REQUIRED HEIGHTS. REFER TO DETAILS, ARCHITECTURAL DRAWINGS, AND APPLICABLE CODES FOR 	PURPOSES ONLY. FINAL FEEDER LENGTHS AND EQUIPMENT INTERRUPTING RATINGS SHALL BE CONFIRMED BY THE CONTRACTOR AND PROVIDED IN THE SUBMITTAL.7. CONTRACTOR SHALL PROVIDE SUITABLE LUGS WITH APPROPRIATE SIZE AND	THE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY, AND GYP. WALLS.6. ALL DATA/TELECOMMUNICATIONS CABLING SHALL BE INSTALLED UNDER SEPARATE	 THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FINAL LIGHT SWITCH LOCATIONS AND MOUNTING HEIGHTS WITH THE ARCHITECT PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT FIXTURE LENGTHS FOR ALL 	LOCATED IN THE CEILING, WALL, AND FLOOR SPACES BACK TO POIN UNLESS OTHERWISE NOTED. COORDINATE WITH THE APPROPRIATE EQUIPMENT DEMOLISHED WITHIN THEIR SCOPE. FOR ANY EXISTING TO REMAIN, PROVIDE SUPPORTS PER CODE.
	HEIGHT REQUIREMENTS.6. ENSURE THAT ALL CEILING-MOUNTED DEVICES ARE CENTERED IN CEILING TILES. IF A CONFLICT OCCURS, CONTACT THE DESIGN TEAM.	TEMPERATURE RATING FOR TERMINATIONS FOR ALL EQUIPMENT.8. PROVIDE FULL BUSSING FOR ALL SPACES INDICATED ON PANELBOARDS AND DISTRIBUTION BOARDS.	CONTRACT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE JUNCTION BOX SIZES, CONDUIT SIZES, POWER REQUIREMENTS, AND EXACT LOCATIONS WITH THE COMMUNICATION CONTRACTOR PRIOR TO ROUGH-IN.	 CONTINUOUS LINEAR FIXTURES. 8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE CONTRACTOR FOR THE PLACEMENT OF FIXTURES IN MEPT ROOMS TO PROVIDE UNIFORM 	 THE ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF EX EXISTING TO REMAIN DEVICES, UNLESS OTHERWISE NOTED. ALL MATERIAL AND EQUIPMENT THAT HAS BEEN REMOVED SHALL BE DEPENDENT TO EXPERIENCE OF THE OWNER OW
1	 THE ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND FIELD VERIFY WITH THE APPROPRIATE MILLWORK CONTRACTOR TO COORDINATE THE FINAL LOCATION OF ALL DEVICES, AND THE EXACT HEIGHT, LOCATION, AND ROUTING OF CONDUIT PRIOR TO ROUGH-IN. ALL CONDUIT RUNS SHALL BE RUN PERPENDICULAR AND PARALLEL TO COLUMNS AND 	 CONNECT ALL TRANSFORMER GROUNDING ELECTRODES TO THE GROUND BUS RISER. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE NECESSARY WORK. FOR EXISTING PANELBOARD REPLACEMENTS, THE CONTRACTOR IS RESPONSIBLE FOR ALL 	7. ALL SECURITY SYSTEM CABLING SHALL BE INSTALLED UNDER SEPARATE CONTRACT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE JUNCTION BOX SIZES, CONDUIT SIZES, POWER REQUIREMENTS, AND EXACT LOCATIONS WITH THE SECURITY CONTRACTOR PRIOR TO ROUGH-IN. IF APPLICABLE, THE SECURITY SYSTEM SHALL INTERFACE WITH THE FIRE ALARM SYSTEM.	LIGHT LEVELS. 40% OF ALL FIXTURES SHALL BE PROVIDED WITH BATTERIES/ON EMERGENCY POWER. PROVIDE MOUNTING HARDWARE AS REQUIRED.	 DISPOSAL AS DIRECTED BY THE OWNER. ALL EXISTING FIRE ALARM DEVICES SHALL REMAIN OPERATIONAL D AND CONSTRUCTION. PROVIDE TEMPORARY SUPPORTS AND ADEQ DURING DEMOLITION AND CONSTRUCTION. WORK OUTSIDE OF PRIMARY AREAS OF WORK SHALL BE COORDINA
	BEAMS. ALL EXPOSED RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND DO NOT OBSTRUCT PASSAGEWAYS OR ACCESS TO EQUIPMENT. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUPED TOGETHER. THE LOCATION OF PUBLICLY VISIBLE RACEWAYS SHALL BE APPROVED BY THE DESIGN TEAM PRIOR TO INSTALLATION.	 POR EXISTING PARELEGAND REPLACEMENTS, THE CONTRACTOR IS RESPONSIBLE FOR ALL ASSOCIATED WORK. THIS INCLUDES NEW JUNCTION BOXES, WIRE GUTTER, SPLICES, ETC. AS NEEDED TO PERFORM THIS WORK. THE CONTRACTOR SHALL VISIT THE SITE BEFORE BID AND INCLUDE ALL NECESSARY WORK IN THE BID PRICE. ALL WORK INDICATED ON ONE-LINES IS NEW UNLESS OTHERWISE NOTED. 	 ALL AV SYSTEM CABLING SHALL BE INSTALLED UNDER SEPARATE CONTRACT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE JUNCTION BOX SIZES, CONDUIT SIZES, POWER REQUIREMENTS, AND EXACT LOCATIONS WITH THE AV CONTRACTOR PRIOR TO ROUGH-IN. ALL CONDUIT FOR LOW VOLTAGE SYSTEMS SHALL BE PROVIDED WITH PULL WIRE AND CONDUCT RUGUNDO. 		 WORK OUTSIDE OF PRIMARY AREAS OF WORK SHALL BE COORDINA OWNER.
	 EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL. 9. PROVIDE FIRESTOPPING PER ARCHITECTURAL AND ELECTRICAL SPECIFICATIONS OR AS REQUIRED BY AHJ IN COMPLIANCE WITH ASTME 814 AND UL STANDARDS. 		CONDUIT BUSHING. 10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL/PLUMBING/FIRE PROTECTION EQUIPMENT LOCATIONS FOR POINTS OF CONNECTION WITH APPROPRIATE CONTRACTOR PRIOR TO POUND IN DEFER TO MER SQUEED IN SCIENCE AND		
	 ALL WORK AFFECTING BUSINESS AND BUILDING OPERATIONS SHALL BE COORDINATED WITH OWNER. CONTRACTOR TO COORDINATE FIRE ALARM DEVICE LOCATIONS WITH ALL TRADES. 		CONTRACTOR PRIOR TO ROUGH-IN. REFER TO MEP SCHEDULES, SPECIFICATIONS, AND SUBMITTALS FOR ADDITIONAL INFORMATION. 11. EXACT LOCATIONS AND QUANTITIES OF FIRE/SMOKE AND MOTORIZED DAMPERS SHALL BE COORDINATED WITH MECHANICAL DRAWINGS.		
н	 INITIATING DEVICES SUCH AS SMOKE, HEAT, AND CARBON MONOXIDE DETECTORS/ALARMS SHALL BE INSTALLED PER CODE AND A MINIMUM OF 3 FEET AWAY FROM HEATING ELEMENTS. 12. FIRE ALARM ARE DEVICES SHOWN FOR REFERENCE ONLY. A COMPLETE FIRE ALARM SYSTEM SHALL BE PROVIDED AS DESIGNED BY THE FIRE ALARM CONTRACTOR. AN 		 AREAS OF DRYWALL CEILING SHALL BE COORDINATED SUCH THAT ACCESS PANELS ARE NOT REQUIRED. ELEMENTS REQUIRING ACCESS SHOULD BE LOCATED IN ACCESSIBLE CEILING. GENERAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT PRIOR TO ORDERING OR INSTALLATION. 		
	APPROVED FIRE ALARM SYSTEM SHALL COMPLY WITH ALL APPLICABLE CODES AND ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.		 ALL DEVICES LISTED IN NEC 210.8 (A) THROUGH (F) SHALL BE PROVIDED WITH GFCI PROTECTION. PROVIDE A REMOTE GFCI DEVICE OR CIRCUIT BREAKER FOR ALL INACCESSIBLE DEVICES. LABEL REMOTE GFCI DEVICE INDICATING EQUIPMENT BEING 		
			PROTECTED. SEE NEC 210.8 FOR ADDITIONAL INFORMATION.14. ELECTRICAL CONDUITS LOCATED IN MECHANICAL SHAFTS SHALL BE COORDINATED WITH DUCTS, PIPING, AND ACCESS PANELS.		
G			 FOR MEETING ROOMS, PROVIDE RECEPTACLES AS DESIGNED TO COMPLY WITH NEC 210.65. ALL EXISTING POWER RECEPTACLES AND DATA OUTLETS SHALL BE PROVIDED WITH NEW 		
			COVER PLATES TO MATCH NEW OUTLETS.		
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 THE ELECTRICAL CONT PRIOR TO THE START-U REFER TO BUILDING ST THE ELECTRICAL DRAW 	GENERAL NOTES: RACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR IP OF THE CONSTRUCTION PROJECT FOR RULES AND REGULATIONS. ANDARDS, SAFETY, NEC, LOCAL, AND OTHER APPLICABLE CODES. JINGS ARE DIAGRAMMATIC. LOCATIONS SHOWN FOR ELECTRICAL	 NOT ALL RISER OFFSETS OR SUPPORT BOXES ARE SHOWN. THE CONTRACTOR SHALL PROVIDE OFFSETS AND SUPPORT BOXES AS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FIELD CONDITIONS AND INCLUDING ALL NECESSARY OFFSET COSTS IN THE BID PRICE. CONDUIT SEGMENTS ARE SHOWN ON ONE-LINES FOR REFERENCE ONLY. CONTRACTOR TO 	 POWER – GENERAL NOTES: 1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE PRINTED LABELS FOR ALL ELECTRICAL RECEPTACLES AND SWITCHES WITH PANEL DESIGNATION AND CIRCUIT NUMBER ON THE COVER PLATE. COORDINATE LABEL PLACEMENT WITH OWNER. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION. 2. THE ELECTRICAL CONTRACTOR SHALL REFER TO OTHER DESIGN TEAM DRAWINGS FOR 	 LIGHTING - GENERAL NOTES: ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE PER IBC, UBC, AND NEC. INSPECT ALL EXISTING AND RELOCATED FIXTURES. RELAMP, CLEAN LENSES AND REPLACE ALL NECESSARY COMPONENTS AS REQUIRED TO MAINTAIN LIKE-NEW 	 DEMOLITION – GENERAL NOTES: PRIOR TO BID, THE CONTRACTOR SHALL VERIFY ALL WORK ASSOCIATED WITH EXISTING CONDITIONS TO DETERMINE NECESSARY WORK. ANY DISCREPANCIES OBSERVED ON SITE SHALL BE BROUGHT UP TO THE ARCHITECT'S AND ENGINEER'S ATTENTION PRIOR TO BID. UP-TO-DATE AS-BUILT ELECTRICAL PLANS ARE NOT AVAILABLE FOR THIS BUILDING. 		K Clic. DESIGN STUDIO
CONTRACTOR IS RESPONDED ARCHITECTURAL PLANS DIMENSIONS ARE TO BE SHOP DRAWINGS. DO N 3. UPON COMPLETION OF SCHEDULES, AS-BUILT INSTRUCTIONS FOR AN LAST PAYMENT. REFER 4. REFER TO SPECIFICATIONS	THE PROJECT, THE OWNER SHALL BE ISSUED WITH UPDATED PANEL DRAWINGS, CATALOG CUTS SHEETS, WARRANTIES, AND OPERATING Y INSTALLED EQUIPMENT. THIS SHALL BE ISSUED PRIOR TO THE TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.	 DETERMINE AND PROVIDE FINAL ROUTING. REFER TO FEEDER TABLE FOR FEEDER AND CONDUIT SIZES. REFER TO TRANSFORMER TABLE FOR FEEDER AND CONDUIT SIZES. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT VOLTAGE DROP FOR FEEDERS TO DISTRIBUTION EQUIPMENT DOES NOT EXCEED 2%. VOLTAGE DROP FOR FEEDERS TO DOES NOT EXCEED 3%. OVERALL VOLTAGE DROP SHALL BE MAXIMUM OF 5%. INDICATED FEEDER LENGTHS ARE FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL CONFIRM FINAL FEEDER LENGTHS. 	 LOCATIONS OF OWNER'S EQUIPMENT AND FURNITURE SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VERIFY FINAL FIELD CONDITIONS AND COORDINATE THE EXACT LOCATION WITH THE APPROPRIATE CONTRACTOR PRIOR TO ROUGH-IN. PRIOR TO X-RAYING/GPR SCANNING, CHOPPING, OR CORE-DRILLING, THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND SCHEDULE WITH THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE DISCONNECTS ARE INDICATED IN DRAWINGS, CONTRACTOR SHALL PROVIDE FINAL CONNECTION FROM DISCONNECT TO THE EQUIPMENT BEING SERVED. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. ALL VERTICAL 	 APPEARANCE THROUGHOUT SPACE. ENSURE THAT ALL LAMPS HAVE THE SAME COLOR TEMPERATURE (KELVIN) THROUGHOUT. WHERE LIGHT FIXTURE LOCATION INTERFERES WITH DUCTWORK OR CEILING SUPPORTS, CONTACT THE DESIGN TEAM FOR WORK COORDINATION. COORDINATE INSTALLATION WITH APPROPRIATE CONTRACTOR. LOWERCASE LETTER ADJACENT TO SWITCH INDICATES CONTROL OF LIGHT FIXTURES WITH MATCHING LOWERCASE LETTER. WHERE NO LOWERCASE LETTERING IS SHOWN (EITHER ON THE FIXTURE OR ADJACENT TO SWITCHES), THE SWITCH IS ASSUMED TO BE DEDICATED TO THE FIXTURES IN THE LOCAL/CONFINED AREA. 	 INFORMATION FOR THE EXISTING CIRCUITRY IS BASED ON EXISTING PANEL DIRECTORIES, AVAILABLE DRAWINGS, AND ASSUMPTIONS. IF SIGNIFICANT DISCREPANCIES ARE FOUND THAT CANNOT BE EASILY RESOLVED, CONTACT THE ARCHITECT OR ENGINEER. REFER TO OTHER DISCIPLINES, IF APPLICABLE, FOR ADDITIONAL DEMOLITION INFORMATION INCLUDING AREAS TO BE DEMOLISHED. ALL CIRCUIT BREAKERS THAT ARE SPARES SHALL BE TURNED OFF AND SHALL BE MARKED ON THE REVISED PANEL DIRECTORIES. THE CONTRACTOR SHALL DEMOLISH ALL UNUSED POWER FEEDERS, PHONE/DATA ONDUNCO AND LE OUNDERT IN UNDED POWER FEEDERS, PHONE/DATA 		50 SOUTH STEELE STREET, DENVER, CO 802 FOUNDERS + PRINCIPALS RENE STREMEL 303.437.4956 RENE@CLICDESIGNSTUDIO.COM SARAH MCGARRY 303.915.4314 SARAH@CLICDESIGNSTUDIO.COM J © COPYRIGHT 2022 ANY UNAUTHORIZED USE OF THESE
DIRECTED BY THE ENGI 5. ENSURE THAT ALL NEW HEIGHTS. REFER TO DI HEIGHT REQUIREMENT 6. ENSURE THAT ALL CEIL CONFLICT OCCURS, CO 7. THE ELECTRICAL CONT VERIFY WITH THE APPE	ING-MOUNTED DEVICES ARE CENTERED IN CEILING TILES. IF A INTACT THE DESIGN TEAM. RACTOR SHALL REFER TO ARCHITECTURAL PLANS AND FIELD ROPRIATE MILLWORK CONTRACTOR TO COORDINATE THE FINAL	 INDICATED FEEDER LENGTHS IN SHORT CIRCUIT CALCULATIONS ARE FOR DESIGN PURPOSES ONLY. FINAL FEEDER LENGTHS AND EQUIPMENT INTERRUPTING RATINGS SHALL BE CONFIRMED BY THE CONTRACTOR AND PROVIDED IN THE SUBMITTAL. CONTRACTOR SHALL PROVIDE SUITABLE LUGS WITH APPROPRIATE SIZE AND TEMPERATURE RATING FOR TERMINATIONS FOR ALL EQUIPMENT. PROVIDE FULL BUSSING FOR ALL SPACES INDICATED ON PANELBOARDS AND DISTRIBUTION BOARDS. CONNECT ALL TRANSFORMER GROUNDING ELECTRODES TO THE GROUND BUS RISER. 	 SECTIONS OF CONDUIT SHALL BE CONCEALED. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY, AND GYP. WALLS. 6. ALL DATA/TELECOMMUNICATIONS CABLING SHALL BE INSTALLED UNDER SEPARATE CONTRACT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE JUNCTION BOX SIZES, CONDUIT SIZES, POWER REQUIREMENTS, AND EXACT LOCATIONS WITH THE COMMUNICATION CONTRACTOR PRIOR TO ROUGH-IN. 7. ALL SECURITY SYSTEM CABLING SHALL BE INSTALLED UNDER SEPARATE CONTRACT. THE ELECTRICAL CONTRACTOR SHALL BE INSTALLED UNDER SEPARATE CONTRACT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE JUNCTION BOX SIZES, POWER REQUIREMENTS, AND EXACT LOCATIONS WITH THE SECURITY CONTRACTOR 	 THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FINAL LIGHT SWITCH LOCATIONS AND MOUNTING HEIGHTS WITH THE ARCHITECT PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT FIXTURE LENGTHS FOR ALL CONTINUOUS LINEAR FIXTURES. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE CONTRACTOR FOR THE PLACEMENT OF FIXTURES IN MEPT ROOMS TO PROVIDE UNIFORM LIGHT LEVELS. 40% OF ALL FIXTURES SHALL BE PROVIDED WITH BATTERIES/ON EMERGENCY POWER. PROVIDE MOUNTING HARDWARE AS REQUIRED. 	 CABLING, CABLE SUPPORTS, CONDUIT, JUNCTION BOXES, AND ASSOCIATED WIRING LOCATED IN THE CEILING, WALL, AND FLOOR SPACES BACK TO POINT OF ORIGIN, UNLESS OTHERWISE NOTED. COORDINATE WITH THE APPROPRIATE CONTRACTOR FOR EQUIPMENT DEMOLISHED WITHIN THEIR SCOPE. FOR ANY EXISTING CONDUIT/CABLING TO REMAIN, PROVIDE SUPPORTS PER CODE. 6. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF EXITING CIRCUIT FOR EXISTING TO REMAIN DEVICES, UNLESS OTHERWISE NOTED. 7. ALL MATERIAL AND EQUIPMENT THAT HAS BEEN REMOVED SHALL BE HELD FOR DISPOSAL AS DIRECTED BY THE OWNER. 8. ALL EXISTING FIRE ALARM DEVICES SHALL REMAIN OPERATIONAL DURING DEMOLITION 	-	DOCUMENTS IS PROHIBITED WITHOUT T WRITTEN CONSENT OF CLIC DESIGN ST
PRIOR TO ROUGH-IN. 8. ALL CONDUIT RUNS SH. BEAMS. ALL EXPOSED WALLS OR STRUCTURA CONTOURS AND DO NO RACEWAYS SHOULD BE VISIBLE RACEWAYS SH. EXTRA TIME SHOULD BE	RACEWAYS ARE TO BE INSTALLED PARALLEL OR PERPENDICULAR TO IL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE IT OBSTRUCT PASSAGEWAYS OR ACCESS TO EQUIPMENT. MULTIPLE INSTALLED GROUPED TOGETHER. THE LOCATION OF PUBLICLY	 THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE NECESSARY WORK. FOR EXISTING PANELBOARD REPLACEMENTS, THE CONTRACTOR IS RESPONSIBLE FOR ALL ASSOCIATED WORK. THIS INCLUDES NEW JUNCTION BOXES, WIRE GUTTER, SPLICES, ETC. AS NEEDED TO PERFORM THIS WORK. THE CONTRACTOR SHALL VISIT THE SITE BEFORE BID AND INCLUDE ALL NECESSARY WORK IN THE BID PRICE. ALL WORK INDICATED ON ONE-LINES IS NEW UNLESS OTHERWISE NOTED. 	 PRIOR TO ROUGH-IN. IF APPLICABLE, THE SECURITY SYSTEM SHALL INTERFACE WITH THE FIRE ALARM SYSTEM. 8. ALL AV SYSTEM CABLING SHALL BE INSTALLED UNDER SEPARATE CONTRACT. THE ELECTRICAL CONTRACTOR SHALL COORDINATE JUNCTION BOX SIZES, CONDUIT SIZES, POWER REQUIREMENTS, AND EXACT LOCATIONS WITH THE AV CONTRACTOR PRIOR TO ROUGH-IN. 9. ALL CONDUIT FOR LOW VOLTAGE SYSTEMS SHALL BE PROVIDED WITH PULL WIRE AND CONDUIT BUSHING. 10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL/PLUMBING/FIRE 		 AND CONSTRUCTION. PROVIDE TEMPORARY SUPPORTS AND ADEQUATE PROTECTION DURING DEMOLITION AND CONSTRUCTION. 9. WORK OUTSIDE OF PRIMARY AREAS OF WORK SHALL BE COORDINATED WITH THE OWNER. 	_	A LEGENCE Compa formerly KLOK Gro
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			COVER PLATES TO MATCH NEW OUTLETS.			-	
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	PANEL H1															
		<u> </u>	Mounting Method	Fec	l From								Panel Information			
		E	SURFACE <u>Panel Status</u> XISTING TO REMAIN	Panel	<u> Optior</u>	<u>15</u>					Volt: Phase: Wire:	-	Bus Rating Main Breaker AIC Rating	r: MLO		
Ckt	Notes	Code	Description	Load	Bkr	P	Ph	Ph	Ph	P	Bkr	Load	Description	Code	Notes	Ckt
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1		1	SITE LIGHTING	2300	20	1	٠			1	20		SPARE	6		2
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5		1	LIGHTING	3500	20	1			٠	1	20		LIGHTING	1		6
7		1	LIGHTING	1800	20	1	٠			1	20		LIGHTING	1		8
9		1	LIGHTING	2680	20	1		٠		3	20	3300	CUH-1	4		10
11		4	CUH-2	3300	20	3			٠		/	3300		4		12
13		4		3300	/		٠				/	3300		4		14
15		4		3300	/			•		3	20	1700	UH-2	4		16
17		4	CUH-3,4	3300	20	3			٠		/	1700		4		18
19		4		3300	1		٠				/	1700		4		20
21		4		3300	1			٠		3	20	1700	UH-3	4		22
23		4	UH-1	3300	20	3			٠		/	1700		4		24
25		4		3300	/		٠				/	1700		4		26
27		4		3300	/		_	•			-		SPACE			28
29		3	V1	1920	15	3	_		٠	1	20	3340	LIGHTING	1		30
31		3		1920	/		•			1	20	1646	LIGHTING - SOUTH		A,B	32
33		3		1920	/		_	•		1	20	2082	LIGHTING - NORTH		A,B	34
35		3	V2	1920	15	3	_		•		-		SPACE			36
37		3		1920	/		•				-		SPACE			38
39		3		1920	/		_	•			-	1	SPACE			40
41		-	SPACE		-		_		•		-		SPACE			42
			1													
	C	Code 1	Description Lighting & Car Chargers	Load VA 27920	Dem 125%						Per	Phase	Load Summary			
		2	Rec up to 10,000		100%						Ph A	16359	VA			
			Rec over 10,000		50%						Ph B	18975	VA			
		3	Motor	9600	100%						Ph C	16753	VA			
			Largest Motor	1920	125%											
		4	Heater	49800	100%						Connec	cted	8924	0 VA		
		5	Kitchen		100%						Code	Demand	9670	0 VA		
		6	Other		100%											
		7	Sub Panel		100%						Code	Demand	116.4	5 Amps		
	REVISE		A D IN EXISTING PANEL W BREAKER IN EXISTING PANEL													

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EEDER	CON	DUIT	WIRE	CONSTANT	# OF	FEEDER	VOLTS	"F"	"M"	ISC AT					
SIZE	STEEL	PVC	TYPE	"C"	SETS	LENGTH	LTOL	FACTOR	MULTIPLIE	FAULT					
500		Х	AL	21391	2	50	480	0.0540	0.9488	12,144					
3/0		Х	CU	13923	2	200	480	0.3147	0.7606	9,237					
250	Х		AL	12122	1	50	480	0.1905	0.8400	10,752					
500	Х		AL	18756	1	50	208	0.2387	0.8073	3,100					
8		Х	CU	1559	1	50	208	0.8279	0.5471	1,696					

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		_	<u>Aounting Method</u> SURFACE <u>Panel Status</u> XISTING TO REMAIN	150KVA TI	I From RANSFO Option	ORM	FR			Volt Phase Wire		<u>Panel Information</u> Bus Ratin Main Breake AIC Ratin	r: MLO		
Ckt	Notes	Code	Description	Load	Bkr	P	Ph P		P	Bkr	Load	Description	Code	Notes	Ck
#				VA	_		AE	3 C			VA				#
1			EF-17	530	20	1	•		1	20	530	EF-21	3		2
3			EF-16	700	20	1	-		1	20	530	EF-19	3		4
5			EF-15	900	20	1		•	1	20	700	EF-18	3		6
7			EF-14	900	20	1	•	_	1	20	900	EF-10	3		8
9			EF-12 EF-1	530 530	20 20	1	-	_	1	20 20	900 900	EF-11 EF-9	3		10
1 3			EF-7	700	20	1	-	•	1	20	300	LIGHTS	3		12 14
15			EF-4	530	20	1	•		1	20	700	EGINS EF-3	3		14
17	A,C		RECEPT'S - FURN. FEED	1080	20	3		•	<u> </u>	20	530	EF-2	3		18
, 9	A,C		RECEPT'S - FURN. FEED	900	- 1		•		1	20	300	AIR PURIFIERS	2		20
1	A,C		RECEPT'S - FURN. FEED	900	- <u>'</u>			<u> </u>	1	20	1200	DISHWASHER	5	A,B,C	
' 3	A,C		RECEPT'S - FURN. FEED	1080	20	3		•	<u> </u>	20	1200	MICROWAVE	5	A,B,C	
5	A,C		RECEPT'S - FURN. FEED	1080			•	+-	1	20	900	REFRIGERATOR	5	A,B,C	
7	A,C		RECEPT'S - FURN. FEED	900	1				1	20	1200	PHONE ROOMS	6	A,B,C	
9	A,C		RECEPT'S - FURN. FEED	900	20	1		•	1	20	1128	LIGHTING AND RECEPT'S	6	A,C	30
1	A,C	2	RECEPT'S - FURN. FEED	1080	20	3	•		1	20	1080	RECEPT'S - CONF.			32
3	A,C	2	RECEPT'S - FURN. FEED	900	1			•		· ·		SPACE			34
5	A,C		RECEPT'S - FURN. FEED	900	- I			•		-		SPACE			36
7	A,C		RECEPT'S - FURN. FEED	900	20	1	•			· ·		SPACE			38
39	A,C		RECEPT'S - FURN. FEED	900	20	1	•			<u> </u>		SPACE			40
11	A,B,C	5	GARBAGE DISPOSAL	850	20	1		•		-		SPACE			42
			Description Lighting & Car Chargers	Load VA	125%					Per	Phase	Load Summary			
		2	Rec up to 10,000	10000						Ph A	8120				
			Rec over 10,000	2120	50%					Ph B	8270				
		3	Motor	10110						Ph C	8518	VA			
			Largest Motor	900	125%					_					
			Heater		100%					Conne			08 VA		
			Kitchen		80%					Code	Demand	277	83 VA		
			Other	2328	100%					A 1	D				
		7	Sub Panel		100%					Code	Demand	77 :	21 Amps		

DESCRIPTION	LIGHTING	RECEPTACLE	LARGEST MOTOR	MOTOR	HEATER	KITCHEN	OTHER	
PANEL L1	5285	33880	0	0	0	0	0	3916
PANEL L1A	0	8340	0	0	0	9500	0	17840
PANEL L2	0	4320	2200	16900	20300	1000	21500	66220
PANEL L2B	0	12120	900	10110	0	3950	0	2708
	5285	58660	3100	27010	20300	14450	21500	15030
REACE INTION								
DESCRIPTION					Tota	l Code Deman	d	
DESCRIPTION LIGHTING	LOAD VA 5285	DEM FAC.	DEM. VA 6606	12807	Tota 71.25 VA / 480 =	l Code Deman 267	d AMPS	
				12807				
LIGHTING	5285	1.25	6606	12807				
LIGHTING REC UP TO 10,000	5285 10000	1.25 1.00	6606 10000			267		VA
LIGHTING REC UP TO 10,000 REC. OVER 10,000	5285 10000 48660	1.25 1.00 0.50	6606 10000 24330		71.25 VA / 480 =	267	AMPS	VA
LIGHTING REC UP TO 10,000 REC. OVER 10,000 MOTOR LARGEST MOTOR	5285 10000 48660 27010	1.25 1.00 0.50 1.00	6606 10000 24330 27010		71.25 VA / 480 =	267 Load =	AMPS	
LIGHTING REC UP TO 10,000 REC. OVER 10,000 MOTOR	5285 10000 48660 27010 3100	1.25 1.00 0.50 1.00 1.25	6606 10000 24330 27010 3875		71.25 VA / 480 = Total Connected	267 Load =	AMPS 150305	

DESCRIPTION	LIGHTING	RECEPTACLE	LARGEST MOTOR	MOTOR	HEATER	KITCHEN	OTHER	TOTAL CONNECTED
PANEL L1	5285	33880	0	0	0	0	0	3916
PANEL L1A	0	8340	0	0	0	9500	0	1784
PANEL L2	0	4320	2200	16900	20300	1000	21500	6622
PANEL L2B	0	12120	900	10110	0	3950	0	2708
	5285	58660	3100	27010	20300	14450	21500	15030
]					
DESCRIPTION		DEM FAC.	DEM. VA		Tota	l Code Deman	d	
DESCRIPTION LIGHTIN G	LOAD VA 5285	DEM FAC. 1.25	DEM. VA 6606	12807	Tota 71.25 VA / 480 =	l Code Deman 267	d AMPS	
				12807				
LIGHTING	5285	1.25	6606	12807				
LIGHTING REC UP TO 10,000	5285 10000	1.25 1.00	6606 10000			267		VA
LIGHTING REC UP TO 10,000 REC. OVER 10,000	5285 10000 48660	1.25 1.00 0.50	6606 10000 24330		71.25 VA / 480 =	267	AMPS	VA
LIGHTING REC UP TO 10,000 REC. OVER 10,000 MOTOR LARGEST MOTOR	5285 10000 48660 27010	1.25 1.00 0.50 1.00	6606 10000 24330 27010		71.25 VA / 480 =	267 Load =	AMPS	
LIGHTING REC UP TO 10,000 REC. OVER 10,000 MOTOR	5285 10000 48660 27010 3100	1.25 1.00 0.50 1.00 1.25	6606 10000 24330 27010 3875		71.25 VA / 480 = Total Connected	267 Load =	AMPS 150305	

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	Project Energy Coc Project Title					[EL2 C40 [EL2	r 5.2.5	applic respor section Additional
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	Allowed	Interior Lighting Power A Area Category		B Floor Area Allo	C D owed Allowed	[EL2	27] ² 6 (E	efficie C405. Efficie under
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	-	ed Interior Lighting Power A ure ID : Description / Lamp / Wa	ttage Per Lamp	/ Ballast Lamps/ #	C D E of Fixture (CXD) ture Watt.		05.9.2 v 28] ² a r F J	with A autom reduce permit ASME local c
	Office (73 LED: F1: LED: F2: LED: F3:	Other: Other: Other:			82 35 2870 19 22 428 4 35 140 0 27 242	C40 [EL2)5.10 7 29] ² 0	passei Total v combi circuit
	LED: F4: LED: F5:			1 1 Total Pro	9 27 243 1 48 48 pposed Watts = 3728	C40 [EL3	30]² p k	At leas perma have l lumina
	Interior Stateme Compliance building pla systems ha	Lighting Compliance ent e Statement: The proposed interior ligh ans, specifications, and other calculation ave been designed to meet the 2021 IEC	ns submitted with th CC requirements in	his permit application. The propo COM <i>check</i> Version COMcheckWe	sed interior lighting		05.11, 5 05.11.1 i 05.11.2 r 05.11.1 r	or con 50% o
	applicable	mandatory requirements listed in the Ir n Cahan - Electrical Engineer	spection Checklist.	Mul M	04.04.2024		f a	and > for mc autom accorc
	Text in th requirem	nents: 100.0% were addressed on the "Comments/Assumptions" colum ent, the user certifies that a code re claimed. Where compliance is itemi: Plan Review Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	n is provided by t equirement will be zed in a separate Complies Does Not Not Observable	he user in the COMcheck Rec e met and how that is docum table, a reference to that tab Comments/A Requirement will be met.	ented, or that an exception le is provided.	[FI5]	7] ¹ c r s f b 8.2.5 6] ³ f c c c b 8.3 3] ¹ c	Build docu owne manu speci proce to ow syste main Furni elect of sy:
	Section	Pough-In Electrical Inspection	Complias?	Commonts//	Accumptions			
	# & Req.ID C405.2.3. 1 [EL22] ¹	Rough-In Electrical Inspection Spaces required to have light- reduction controls have a manual control that allows the occupant to	Complies?	Comments/A Requirement will be met.	งรรณแµน005			
		reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent. Occupancy sensors installed in	□Not Observable □Not Applicable □Complies	Requirement will be met.		_		
	C405.2.1. 1 [EL18] ¹	classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	Does Not Not Observable Not Applicable					
	C405.2.1. 2 [EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time- switch.	Does Not	Exception: Requirement does i	not apply.			
	C405 2 1	Occupant sensor control function in		Requirement will be met.]		

 C405.2.2,
 Each area not served by occupancy

 C405.2.2.
 sensors (per C405.2.1.1) have time

 1
 switch controls and functions detailed

 [EL21]²
 in sections C405.2.2.1.

 □Not Applicable

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zone general lighting power within 20 minutes of all occupants leaving that

control zone.

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on .ID	Rough-In Electrical Inspection	Complies?	Comment	s/Assumptions	
.4, .4.	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Dayligh responsive control function and section C405.2.3.2 Sidelit zone.	Complies Does Not Not Observable Not Applicable	Requirement will be met.		
.5	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
!	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	Complies Does Not Not Observable Not Applicable	Exception: Requirement do	es not apply.	
2	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	Complies Does Not Not Observable	Requirement will be met.		
	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement do	es not apply.	
0	Total voltage drop across the combination of feeders and branch circuits <= 5%.	Complies Does Not Not Observable Not Applicable	Requirement will be met.		
.1	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement do	es not apply.	
	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.		
on	Final Inspection	Complies?	Comment	s/Assumptions	

ו D	Final Inspection	Complies?	Comments/Assumptions
•	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

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TYPE	LAMP & KELVIN	DESCRIPTION	MOUNTING	MOUNTING HEIGHT				CONTROL	MANUFACTURER/CAT. NO.	NOTES
F1	3500K LED	2'X4' GRID TROFFER	RECESSED	TBD	35	4000	120-277	0-10V DIMMING 10%	LITHONIA LIGHTING - STAKS 2X4 AL06 SWW7	1,2,3
F2	3500K LED	6" ROUND DOWNLIGHT	RECESSED	TBD	22.5	2006	120-277	0-10V DIMMING 10%	LITHONIA LIGHTING - LDN6 35/20 L06 * * * MVOL GZ10	Г 1,2,3
F3	4000K LED	4' LINEAR STRIP LIGHT	SURFACE	TBD	35.3	4298	120-277	NON-DIMMING	LITHONIA LIGHTING - CSS L48 4000LM MVOLT 40K 80CRI	1,2,3
F4	3500K LED	DECORATIVE VANITY SCONCE	SURFACE	TBD	27	1690	120-277	NON-DIMMING	LITHONIA LIGHTING - FMVCCLS 24IN MVOLT 30K35K40K 90CRI BN M6	1,2,3
F5	3500K LED	13' PERIMETER COVE LIGHTING	RECESSED	TBD	48.1	4108	120	DIMMING	MARK ARCHITECTURAL LIGHTING - SL4L LOP 13 RLP WFL 80CRI 35K 400LMF WW DARK 57VDC DCHUB	1,2,3

2. CONTRACTOR TO VERIFY DIMMING CONTROLS ARE COMPATIBLE WITH LIGHT FIXTURE'S PURCHASED.

3. CONTRACTOR TO PROVIDE ALL PARTS AND ACESSORIES FOR A COMPLETE, AND FUNCTIONING SYSTEM.

Work Room, Huddle, Wellness, Copy/Print

Break Room, Waiting Room

Open Office, Medium Conference

Open Office - Daylight

Storage, IDF Closet

NOTES: Α.

occu	PAN	CY SEN	NSOR		DAYLIGHT SENSOR		OTHE	R
× VACANCY MODE (MANUAL ON)	× × × × × × OCCUPANCY MODE (AUTO ON)	0 0 0 0 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	X X X X X X DUAL TECHNOLOGY	X X X X X MANUALDIMMING	DNIMMIQ x x x x x x x x	0 0 0 0 0 0 0 1 TARGET LIGHTING LEVEL (FC)	× × PLUG LOAD CONTROL	× LOCAL HVAC INTERACE

NOTES:

SOO

Corridor

Restroom

Туре LC1

LC2

LC3

LC4

LC5

LC6

LC7

1 IF SHOWN ON LIGHTING PLANS - PROVIDE SECONDARY DAYLIGHT SIDE DAYLIGHT ZONE IF >300w IN BOTH THE PRIMARY AND SECONDARY ZONE. 2 OCCUPANCY ZONES TO BE NO GREATER THAN 600sqft

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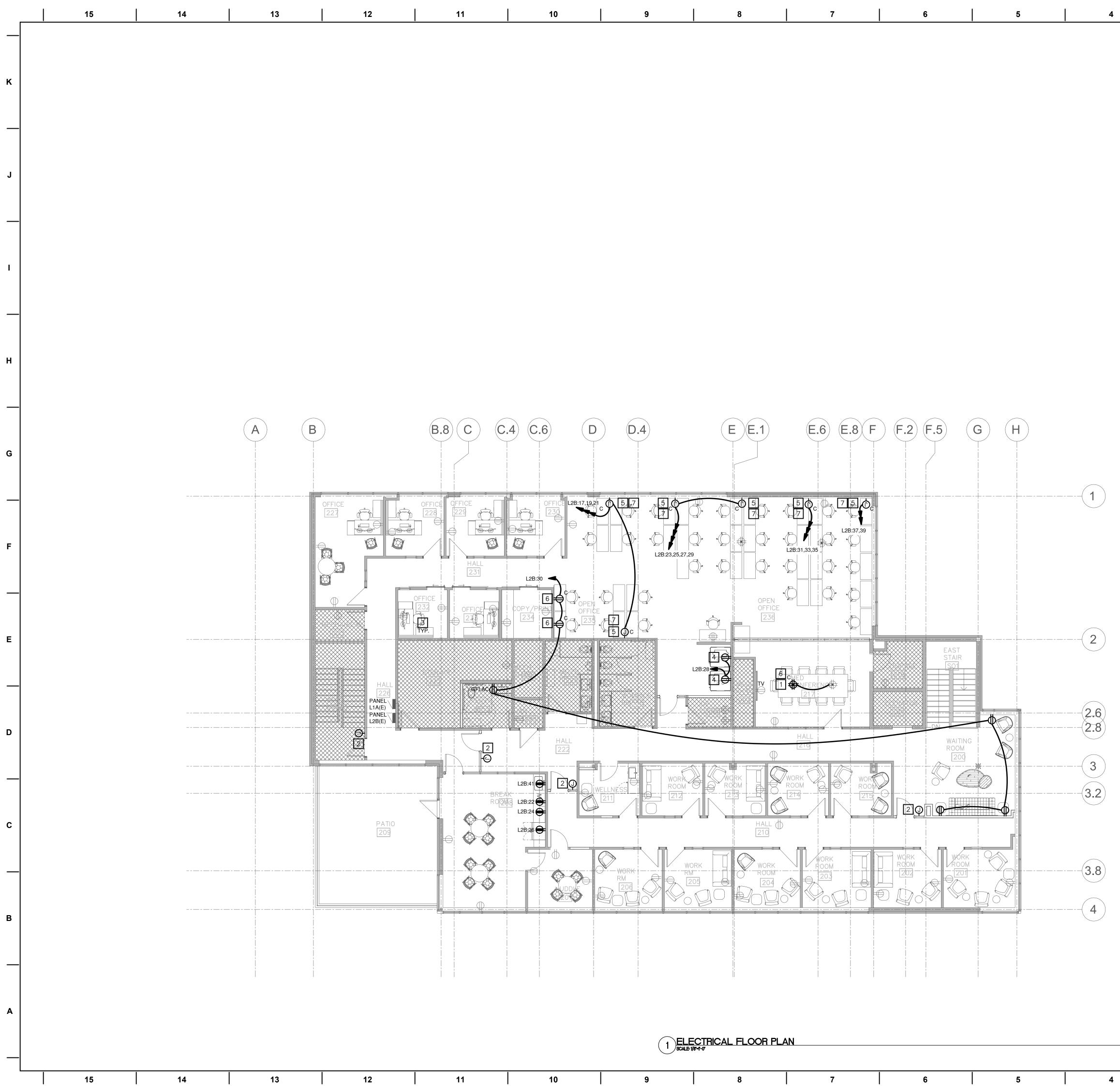
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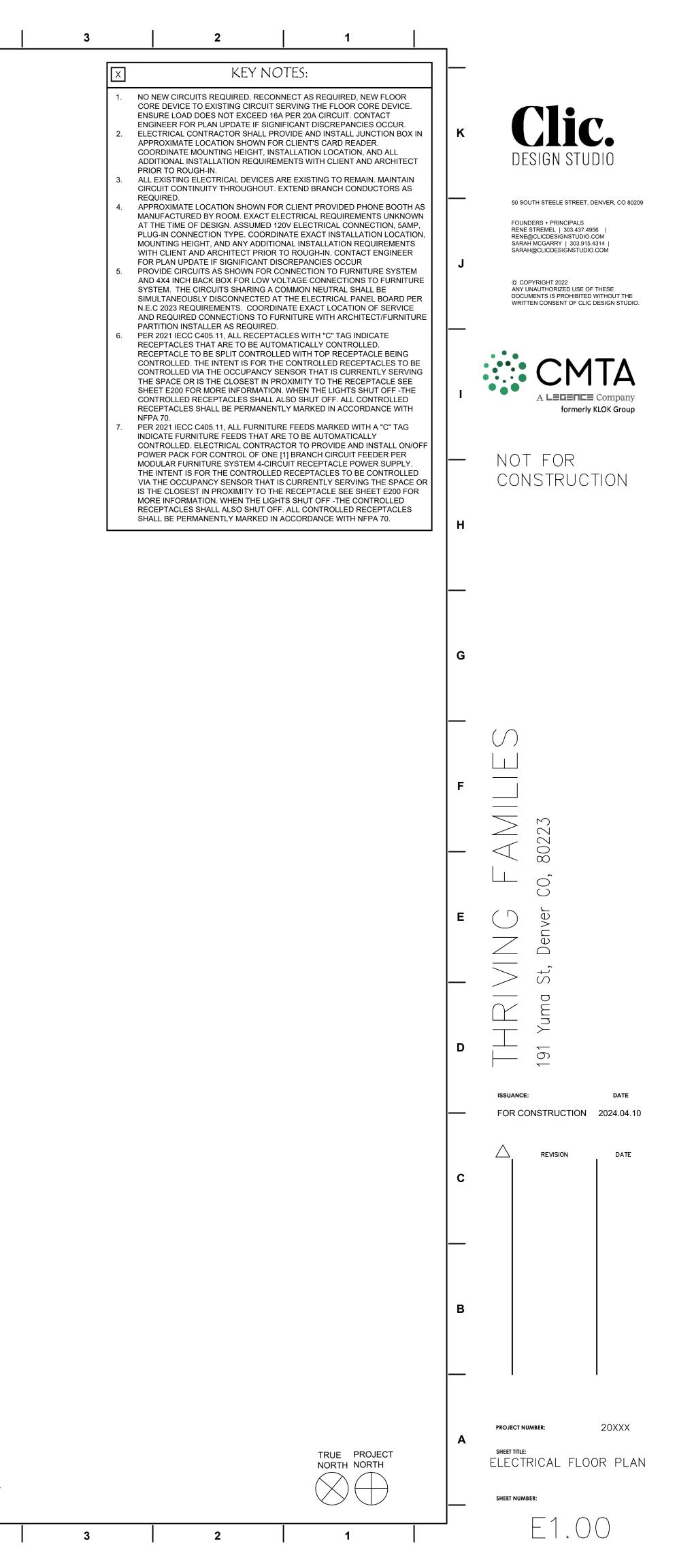
Clic. Κ DESIGN STUDIO 50 SOUTH STEELE STREET, DENVER, CO 80209 FOUNDERS + PRINCIPALS RENE STREMEL | 303.437.4956 | RENE@CLICDESIGNSTUDIO.COM SARAH MCGARRY | 303.915.4314 | SARAH@CLICDESIGNSTUDIO.COM J © COPYRIGHT 2022 ANY UNAUTHORIZED USE OF THESE DOCUMENTS IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF CLIC DESIGN STUDIO. • • • A LEGENCE Company formerly KLOK Group NOT FOR _____ CONSTRUCTION Н G ()_____ F _____ _____ FAM co, 80223 _____ \sim Е De St, σ Yuı ____ 191 D ISSUANCE: DATE FOR CONSTRUCTION 2024.04.10 \triangle REVISION DATE С В PROJECT NUMBER: 20XXX Α sheet title: LIGHTING SCHEDULES SHEET NUMBER: E0.07

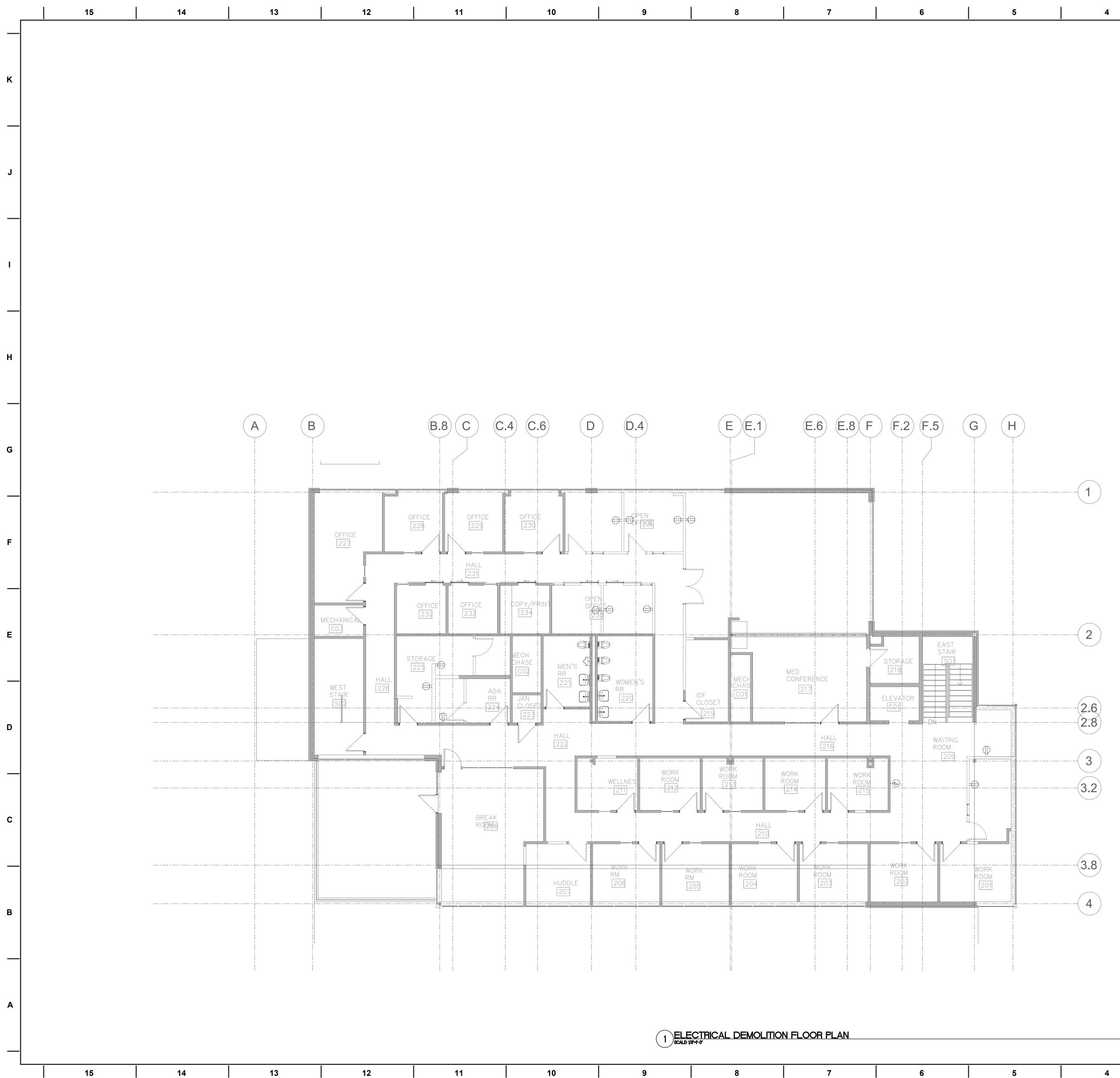
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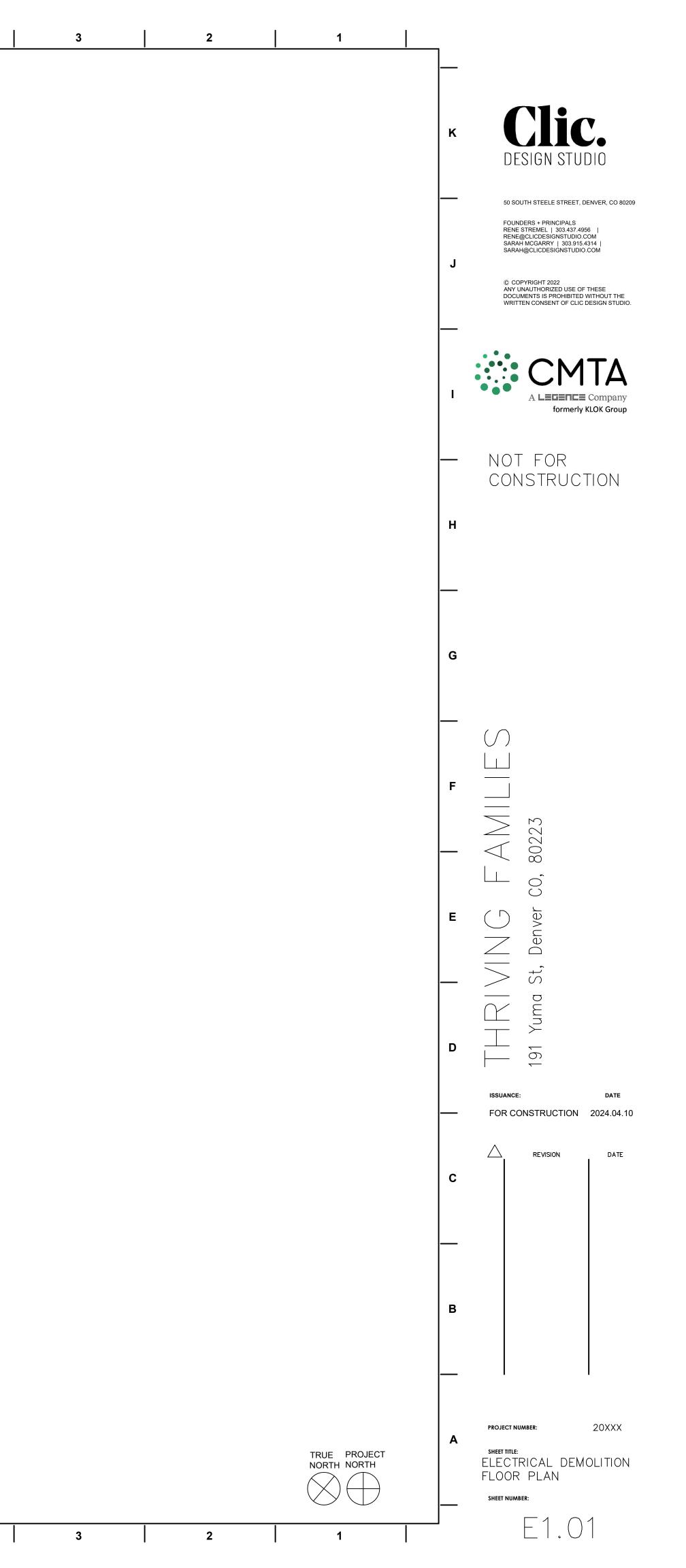


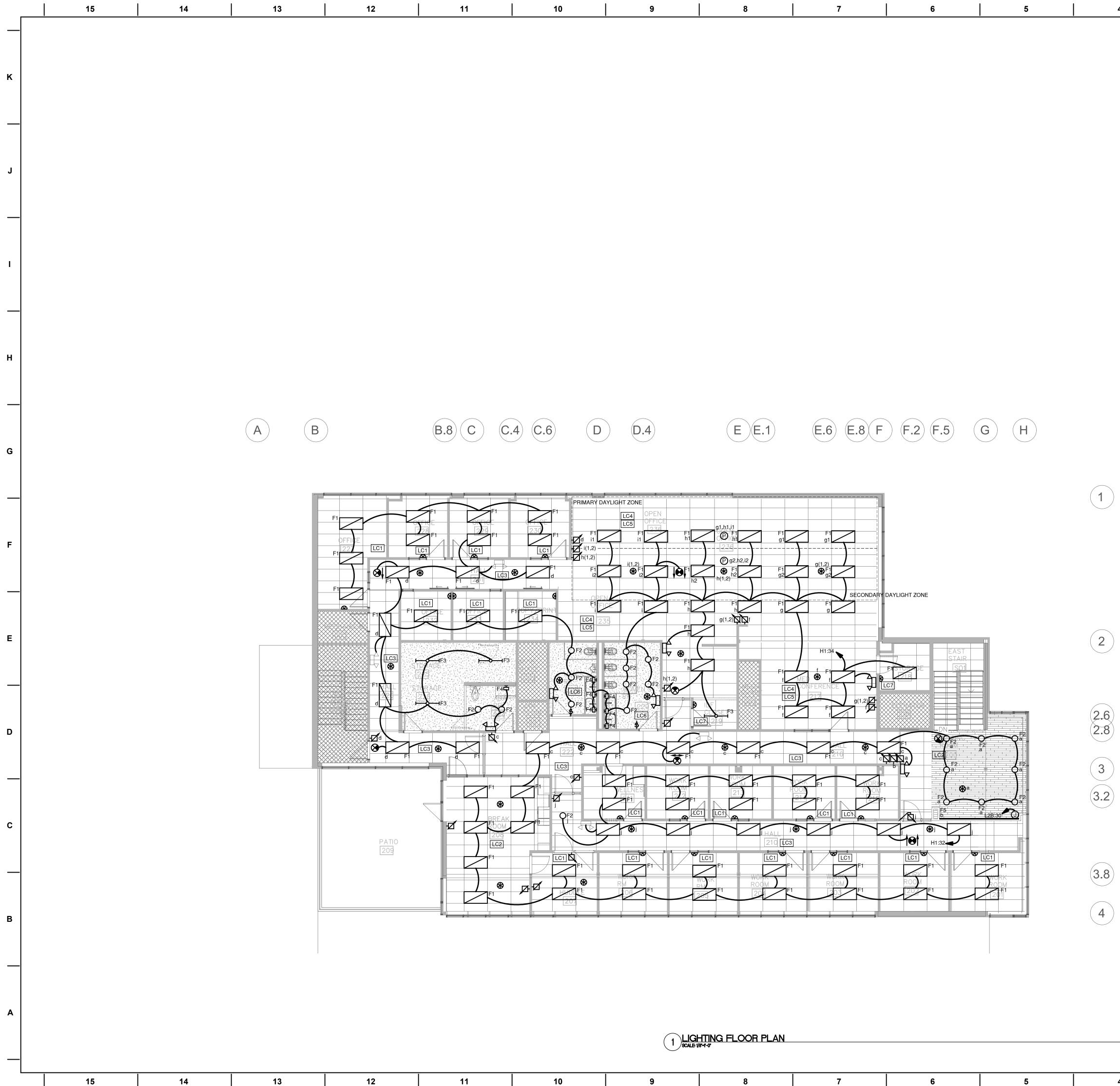
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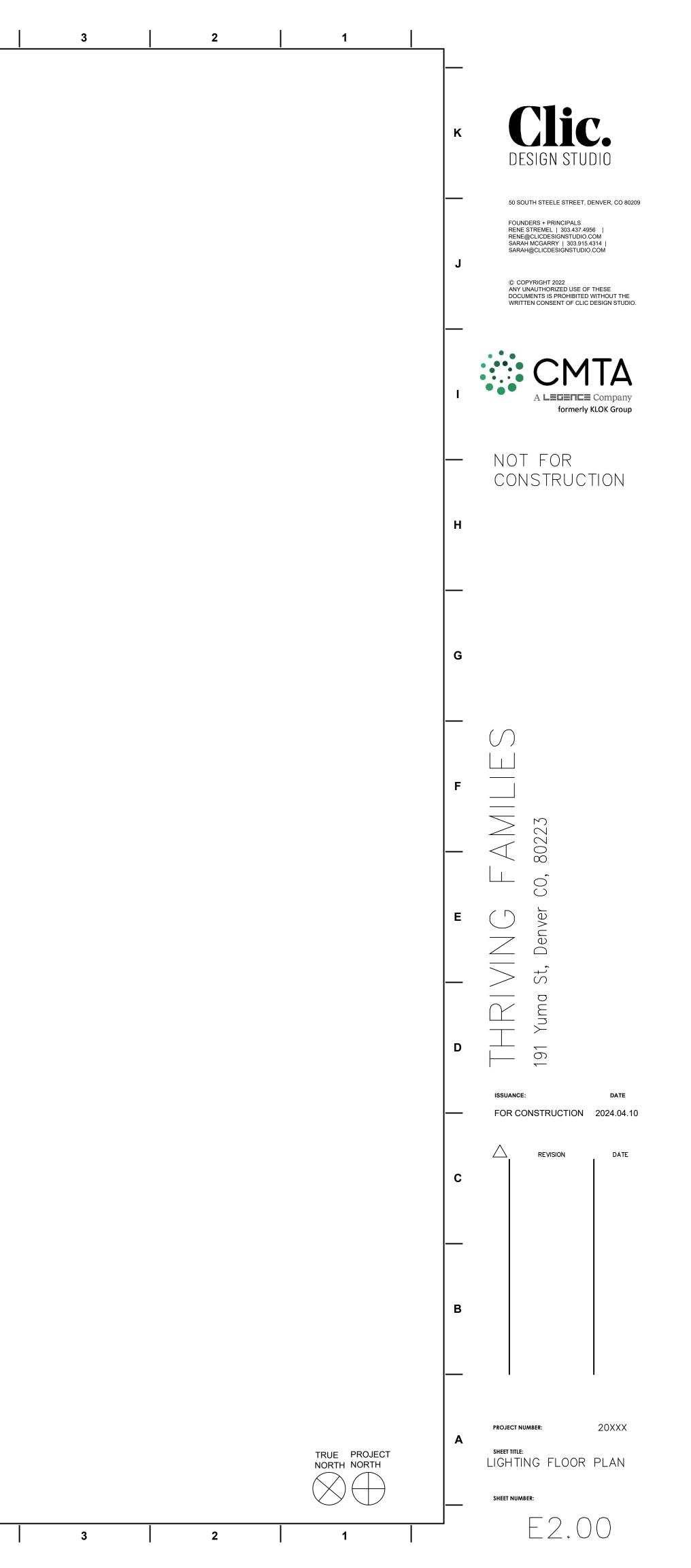
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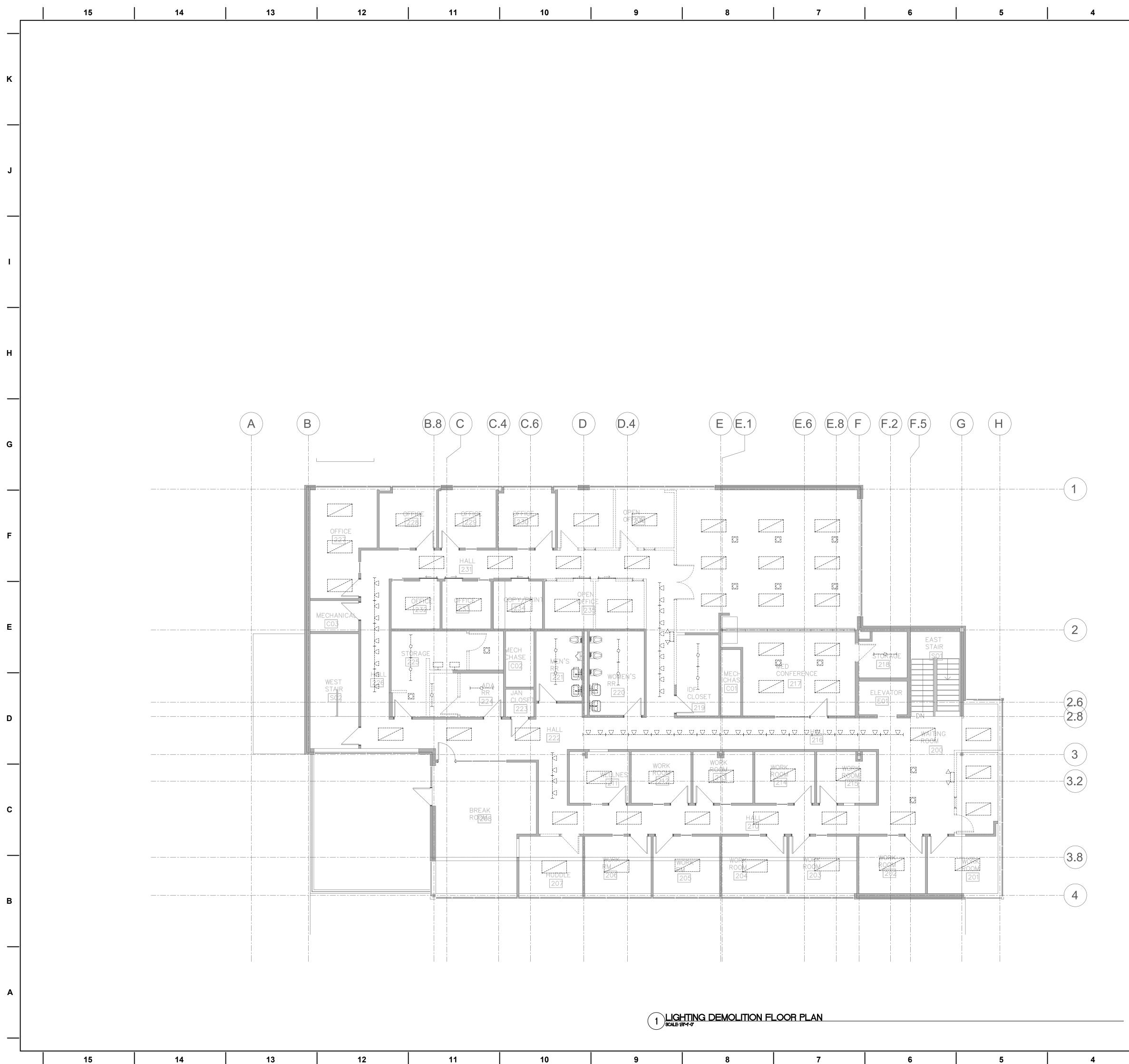




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