

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
A/C	AIR CONDITIONING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AI	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
ATC	AUTOMATIC TEMPERATURE CONTROL
AWG	AMERICAN WIRE GAUGE
BTU	BRITISH THERMAL UNITS
C	CONDUIT
CATV	CABLE TELEVISION
CB	CRITICAL BRANCH CIRCUIT BREAKER
C/B	CERTIFIED BALLAST MANUFACTURER
CBM	CLOSED CIRCUIT TELEVISION CANCELA CIRCUIT
CCTV	CURRENT LIMITING FUSE
CD	CONTROL POWER TRANSFORMER
CLF	CURRENT TRANSFORMER
CT	COPPER
CU	CURRENT TRANSFORMER
DB	DECIBEL
DC	DIRECT CURRENT
DIA	DIAMETER
EB	EQUIPMENT BRANCH ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EP	EMERGENCY POWER
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
F	FUSE
FA	FIRE ALARM
FAC	FIRE ALARM ANNUNCIATOR
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
G	GROUND
GFCL, GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRMC	GALVANIZED RIGID METAL CONDUIT
HOA	HAND-OFF-AUTOMATIC SWITCH
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HZ	HERTZ
IEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INT	INTERLOCK
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KVAR	KILOVOLT-AMPERES REACTIVE
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LITG	LIGHTING
LRA	LOCK ROTOR AMPS
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MI	MINERAL INSULATED
MLO	MAIN LUGS ONLY
MW	MEGAWATT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NO	NORMALLY OPEN
P	POLE
PB	PUSH BUTTON OR PANIC BUTTON OR PULL BOX
PNL	PANEL
PWR	POWER
PT	POTENTIAL TRANSFORMER
QTY	QUANTITY
REQ	REQUIRED
RMC	RIGID METAL CONDUIT
RMS	ROOT MEAN SQUARED
RNC	RIGID NON-METALLIC CONDUIT
RTS	REMOTE TEST STATION
RTU	ROOF TOP UNIT
SP	SPARE
ST	SHUNT TRIP
SW	SWITCH
SYM	SYMMETRICAL
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMCB	THERMAL MAGNETIC CIRCUIT BREAKER
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
V	VOLT
VIA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
VT	VOLTAGE TRANSFORMER
W	WATT OR WIRE
WH	WATER HEATER
WP	WEATHER PROOF
XMR	TRANSFORMER

ELECTRICAL GENERAL NOTES

- ALL POWER, FIRE ALARM AND OTHER ELECTRICAL DEVICE CONTROL WIRING IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THERMOSTAT, FIRE DAMPER, AND SIMILAR MECHANICAL EQUIPMENT CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- ALL ELECTRICAL EQUIPMENT SHALL BE 'UL' LISTED.
- CONTRACTOR SHALL PROVIDE 50% STEP-DIM BALLASTS IN LIGHTING WHERE TWO LEVELS OF SWITCHING ARE INDICATED, OR PROVIDE PROPER LOW VOLTAGE CONTROLS TO ACCOMPLISH STEPPING OF LAMPS.
- LIGHTING FIXTURES SHALL BE SUPPORTED INDIVIDUALLY FROM STRUCTURE FRAMING MEMBERS AND NOT FROM DUCTWORK, PIPING OR CEILING GRIDS.
- NO MATERIALS PROVIDED FOR THIS PROJECT MAY CONTAIN ASBESTOS OR PCBs.
- ALL NEW PANELS AND TRANSFORMERS SHALL BE PROVIDED WITH COPPER BUSSING AND WINDINGS.
- NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL WIRE NECESSARY FOR THE PROPER OPERATION OF ALL SYSTEMS WHETHER INDICATED HEREIN OR NOT.
- VERIFY ALL DOOR SWINGS PRIOR TO INSTALLATION OF SWITCH BOXES.
- WHERE CONDUITS PASS THROUGH FIRE RATED PARTITIONS, CONTRACTOR SHALL MAINTAIN FIRE RATING OF PENETRATIONS THROUGH APPROVED MEANS.

ELECTRICAL DEMOLITION NOTES

- BEFORE SUBMITTING BID, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO VERIFY/EXAMINE THE EXACT EXTENT OF EXISTING CONDITIONS. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE PRIOR TO BID, NOR FOR ANY ALLEGED MISUNDERSTANDING OF WORK TO BE PERFORMED. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL LABOR AND MATERIAL THAT MAY EFFECT HIS WORK.
- THE GENERAL EXTENT OF EXISTING ELECTRICAL WORK TO BE DISMANTLED AND REMOVED OR RELOCATED IS INDICATED ON THE DRAWINGS OR DESCRIBED HEREIN.
- ALL COMPONENTS ASSOCIATED WITH SYSTEMS AND EQUIPMENT TO BE REMOVED OR RELOCATED MAY NOT BE SPECIFICALLY INDICATED. REMOVE ALL ASSOCIATED ELECTRICAL COMPONENTS, HANGERS, WIRING, CABLING, CONDUIT, BOXES, DEVICES AND ALL OTHER ITEMS RELATED TO EQUIPMENT AND MATERIALS WHICH ARE INDICATED TO BE REMOVED OR RELOCATED. REMOVE ALL WIRING AND CONDUIT BACK TO THE SOURCE FOR EXISTING CIRCUITS WHICH ARE BEING DEMOLISHED UNLESS SPECIFICALLY INDICATED. NO EQUIPMENT, MATERIALS OR ASSOCIATED COMPONENTS SHALL BE ABANDONED IN PLACE.
- ABANDON ALL CONDUITS WHICH ARE CONCEALED IN CONCRETE, WALLS OR SLABS AND REMOVE ALL WIRING AND CABLES FROM ABANDONED CONDUITS. WATER TIGHT SEAL OPEN ENDS OF ABANDONED CONDUITS AND PATCH TO MATCH SURROUNDING MATERIALS AND METHODS.
- CONTRACTORS SCOPE OF WORK INCLUDES TRACING OF ALL EXISTING CIRCUITS IN THE CONSTRUCTION AREA BACK TO SOURCE. IF REMOVAL OF EXISTING ELECTRICAL EQUIPMENT OR CIRCUITS AFFECTS ANY EXISTING CIRCUITS TO REMAIN, CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS, FUSES, WIRING, CONDUIT, ETC. REQUIRED TO RECONNECT EXISTING TO REMAIN ELECTRICAL EQUIPMENT BACK TO SOURCE.

DISPOSAL OF DEMOLISHED MATERIALS

- CONTRACTOR SHALL CLEAN THE PROJECT SITE AT THE END OF EACH WORKING DAY. CONTRACTOR SHALL NOTIFY THE BUILDING OWNER PRIOR TO DISPOSAL OF ALL DEMOLISHED MATERIALS TO ALLOW THE OWNER TO SALVAGE ANY USABLE MATERIALS. AFTER INSPECTION FROM THE OWNERS REPRESENTATIVE, ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND APPLICABLE REGULATIONS.

PROTECTION

- PROTECT FROM DAMAGE ALL EXISTING WORK TO REMAIN, ANY EXISTING TO REMAIN OR EXISTING TO BE RELOCATED MATERIALS AND EQUIPMENT DAMAGED DURING THE COURSE OF WORK SHALL BE REPLACED WITH MATERIALS AND EQUIPMENT CONFORMING TO THE PROJECT SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER. CARE MUST BE TAKEN IN REMOVING ALL EXISTING MATERIALS.

TERMINATION AND PATCHING

- DISCONNECT EXISTING TO BE REMOVED OR EXISTING TO BE RELOCATED CONDUIT, WIRING, CABLING AND EQUIPMENT FROM EXISTING TO REMAIN POINT INDICATED. IF NOT INDICATED ON THE PLANS, VERIFY WITH THE DESIGN ENGINEER OR BUILDING OWNERS REPRESENTATIVE PRIOR TO DISCONNECTION.
- WHERE EXISTING FLOORS, WALLS AND ROOFS MUST BE CUT OR ARE DAMAGED DURING REMOVAL OR RELOCATION OF ELECTRICAL WORK, PATCH THE CUT OR DAMAGED AREAS TO MATCH ADJACENT CONSTRUCTION WITH LIKE MATERIALS AND METHODS.
- THE CONTINUITY OF ALL EXISTING CONDUITS AND FEEDERS SERVICING AREAS TO REMAIN SHALL BE MAINTAINED. MODIFY THE EXISTING CIRCUITS IF REQUIRED IN ORDER TO MAINTAIN THE EXISTING CIRCUITRY.

ELECTRICAL SPECIFICATIONS

RACEWAYS

- ALL WIRE SHALL BE RUN IN ACCORDANCE WITH APPLICABLE CODE IN INTERMEDIATE METAL CONDUIT (IMC) OR ELECTRICAL METALLIC TUBING (EMT) OR METAL CLAD (MC) CABLING UNLESS OTHERWISE SPECIFICALLY STATED HEREIN. CONDUIT SIZE SHALL BE 3/4" MINIMUM UNLESS NOTED OTHERWISE.
- CONDUIT IN EXTERIOR WALLS, EXPOSED TO THE WEATHER OR OTHER DAMP/WET LOCATIONS SHALL BE RIGID, THREADED, GALVANIZED, HEAVY WALL TYPE.
- CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC CONDUIT WITH GROUND WIRE. PVC CONDUIT SHALL NOT BE RUN IN OR ABOVE FLOOR SLAB. PVC CONDUIT SHALL TERMINATE BELOW FLOOR SLAB WITH RIGID, THREADED METAL CONDUIT ADAPTER. CONDUIT ABOVE SLAB SHALL BE METAL.
- ALL CONDUIT SHALL BE CONCEALED IN WALLS, FLOORS AND CEILINGS WHEREVER POSSIBLE. EXPOSED CONDUIT IN FINISHED AREAS WILL NOT BE PERMITTED. EXPOSED CONDUIT WILL BE PERMITTED IN UNFINISHED AREAS WITH THE SPECIFIC APPROVAL OF THE ARCHITECT.
- USE FLEXIBLE CONDUIT FOR THE CONNECTION TO THE RECESSED OR SEMI-RECESSED LIGHTING FIXTURES (6' LENGTH MAXIMUM). USE LIQUID TIGHT METAL CONDUIT FOR ALL CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION AND IN AREAS SUBJECT TO MOISTURE.
- USE WATER TIGHT JOINTS WITH BURIED AND CONCRETE ENCASED CONDUIT. ALL BURIED CONDUITS OUTSIDE OF BUILDINGS SHALL HAVE A MINIMUM OF 24" OF COVER. METAL CONDUITS BURIED IN EARTH SHALL BE PAINTED WITH TWO COATS OF HEAVY ASPHALTUM PAINT.
- CONDUIT SHALL BE SECURELY FASTENED IN PLACE. SUPPORT RUNS OF CONDUIT AS DETAILED IN THE APPROPRIATE TABLE OF THE NATIONAL ELECTRICAL CODE. INSTALL EXPOSED RUNS OF CONDUIT AND CONDUIT ABOVE LAY-IN CEILINGS PARALLEL OR PERPENDICULAR TO THE WALLS, STRUCTURAL MEMBERS OF INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. PROVIDE RIGHT ANGLE TURNS USING FITTINGS OR SYMMETRICAL BENDS. SUPPORT CONDUITS WITHIN 1' OF ALL CHANGES IN DIRECTION.
- IF A CONDUIT IS SUSPENDED, IT SHALL BE SUPPORTED ON TRAPEZE HANGERS, WHICH USE "ALL-THREAD" RODS FROM THE STRUCTURAL STEEL. THE USE OF CEILING SUPPORT WIRE OR SIMILAR MATERIAL WILL NOT BE ACCEPTED.
- INSTALL EMPT CONDUIT FOR FUTURE USE AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR PULL ROPE, JUNCTION/OUTLET BOXES, TILE RINGS AND APPROPRIATE COVER PLATES.
- PROVIDE PITCH POCKETS WHERE CONDUITS PENETRATE THE ROOF. HORIZONTAL PORTIONS OF CONDUIT EXPOSED ON THE ROOF AND FEEDING EQUIPMENT SHALL NOT BE MORE THAN 5'-0" UNLESS THE WRITER APPROVAL FROM ARCHITECT OR ENGINEER IS OBTAINED.
- THREAD LUBRICATION/SEALANT IS REQUIRED ON OUTDOOR AND UNDERGROUND THREADED METAL JOINTS.
- COORDINATE CONDUIT RUNS WITH OTHER TRADES AND ADJUST ROUTING TO AVOID INTERFERENCES.
- RACEWAYS SHALL BE PROVIDED WITH EXPANSION FITTINGS WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.
- SURFACE RACEWAYS SHALL BE AS INDICATED ON DRAWINGS AND INSTALLED AS A COMPLETE SYSTEM WITH ALL REQUIRED FITTINGS AND APPURTENANCES, RECEPTACLES/OUTLETS AND BONDING AS INDICATED ON PLAN. INSTALL RACEWAYS PARALLEL AND PERPENDICULAR TO BUILDING ELEMENTS.

BOXES

- INSTALL PULL AND JUNCTION BOXES WHERE INDICATED ON DRAWINGS, AND WHERE REQUIRED FOR CHANGES IN DIRECTION, AT JUNCTION POINTS AND TO FACILITATE WIRE PULLING. FURNISH BOX SIZES IN ACCORDANCE WITH NEC UNLESS LARGER BOXES ARE INDICATED ON THE DRAWINGS.
 - INTERIOR CONCEALED - USE SHEET STEEL BOXES, ZINC COATED OR CADMIUM PLATED
 - IN FLOOR LOCATIONS - PROVIDE CAST IRON, CONCRETE-TITE FLOOR BOXES WITH ADJUSTABLE COVERS SET FLUSH AND LEVEL WITH THE FINISHED FLOOR, WITH OUTLETS AS INDICATED ON THE DRAWINGS. PROVIDE BOXES WITH LEVELING SCREWS. FLUSH TYPE COVERS AND OPENINGS TO SERVE OUTLETS USED. FURNISH FLUSH CAPS FOR CLOSING OFF BOX WHEN NOT IN USE.
 - ALL OTHER LOCATIONS EXCEPT BELOW GRADE, USE CAST BOXES, ZINC-CADMIUM FINISH MALLEABLE IRON, FURNISH WEATHERPROOF BOXES WHEN INSTALLED OUTSIDE OR IN DAMP/WET LOCATIONS.
- PROVIDE REMOVABLE COVERS OF CODE GAUGE, HOT ROLLED SHEET STEEL, HOT DIPPED GALVANIZED FOR ALL BOXES, UNLESS OTHERWISE NOTED.
- EXTERIOR BELOW GRADE - COMPOSITE WEATHERPROOF ASSEMBLIES SUITABLE FOR IN-GROUND INSTALLATIONS.
- WALL BOX SIZES SHALL BE MINIMUM 4" SQUARE X 2-1/2" DEEP WHERE WALL CONSTRUCTION PERMITS. FIXTURE OUTLETS IN CEILING SHALL BE MINIMUM 4" OCTAGONAL X 1-1/2" DEEP (4-11/16" OCTAGONAL X 2-1/2" DEEP WHERE REQUIRED TO ACCOMMODATE LARGER CONDUIT OR LARGER NUMBER OF WIRES).
- GANG BOXES SHALL BE ONE PIECE MINIMUM 2-1/8" DEEP.
- FLUSH MOUNT BOXES IN ALL FINISHED WALLS, INSTALLED THE PLASTER RINGS IN DRY-WALLED AND PLASTERED WALLS AND RAISED COVERS AS REQUIRED IN WALLS WITH OTHER FINISHES SO THAT THE COVER PLATES FIT TIGHTLY AGAINST BOXES OR RINGS. 3/16" MAXIMUM GAPS ARE ALLOWED FOR NONCOMBUSTIBLE WALLS. SUPPORT ALL BOXES TO MAINTAIN PROPER ALIGNMENT AND RIGIDITY.
- CLEAN BOXES OF ALL FOREIGN MATTER PRIOR TO THE INSTALLATION OR WIRING OR DEVICES.
- MOUNTING HEIGHTS ON THE DRAWING ARE TO THE CENTERLINE OF THE BOXES UNLESS OTHERWISE
- ADJUST LOCATIONS OF OUTLETS IN MASONRY OR TILE CONSTRUCTION TO OCCUR IN THE
- NEAREST JOINT TO THE HEIGHT SPECIFIED. HEIGHTS SHALL MEET ADA REQUIREMENTS.

CONDUCTORS

- COLOR CODE CONDUCTORS (EXCEPT CONTROL AND INSTRUMENTATION CONDUCTORS) AS FOLLOWS:

SERVICE TYPE	PHASE A	PHASE B	PHASE C	NEUTRAL
120/240V 1 PHASE, 3 WIRE	RED	BLACK	-	WHITE
120/240V 3 PHASE, 4 WIRE, DELTA				
THROUGH METERING EQUIPMENT	RED	BLACK	ORANGE (HIGH-LEG)	WHITE
IN SERVICE EQUIPMENT	RED	ORANGE (HIGH-LEG)	BLACK	WHITE
120/208V 1 PHASE, 3 WIRE	(NOTE 1)	(NOTE 1)	(NOTE 1)	WHITE
120/208V 3 PHASE 4 WIRE, WYE	RED	BLACK	BLUE	WHITE
277/480V 3 PHASE 4 WIRE, WYE	BROWN	YELLOW	PURPLE	NATURAL GRAY

NOTE 1 - ALL COLORS SHALL BE CONSISTENT THROUGHOUT EACH SYSTEM. FOUR WIRE WYE SECONDARY SYSTEMS SERVING MULTIPLE OCCUPANCY BUILDINGS REQUIRE THAT THE CUSTOMER INSTALL WIRING TO EACH OCCUPANT THAT SATISFIES THE COLOR CONSISTENCY OF THIS REQUIREMENT.

- COLOR CODE ALL CONDUCTORS LARGER THAN #10 WHICH DO NOT HAVE CONTINUOUS INSULATION.
- #12 AND #10 CONDUCTORS SHALL HAVE CONTINUOUS INSULATION COLOR AS

LISTED ABOVE IN COLOR CODING SCHEDULE.

- COLOR BY APPLICATION OF AT LEAST TWO LAPS OF COLORED TAPE ON EACH CONDUCTOR AT ALL POINTS OF ACCESS INCLUDING JUNCTION BOXES.
- CONDUCTORS SHALL BE SOFT ANNEALED COPPER INSULATED FOR 600 VOLTS UNLESS SPECIFICALLY INDICATED OTHERWISE.
- DRAWINGS INDICATE SIZES BASED ON COPPER CONDUCTORS.
- INSULATION TYPE SHALL BE TYPE THW FOR WIRE SIZES #8 AWG AND LARGER AND THHN FOR #10 AWG AND SMALLER. THHN SHALL NOT BE USED IN WET OR DAMP LOCATIONS.
- FLEXIBLE CORD SHALL BE HEAVY DUTY TYPE 'SO' WITH AN EQUIPMENT GROUND CONDUCTOR IN ADDITION TO THE CURRENT CARRYING CONDUCTORS.
- PROVIDE #12 CONDUCTORS, UNLESS OTHERWISE INDICATED. CONTROL CONDUCTORS SHALL BE #14 MINIMUM FOR NEC CLASS 1 AND #16 FOR NEC CLASS 11.
- CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. PROVIDE TYPE THHN/THWN INSULATION OR AS NOTED ON PLANS.
- CONNECT #10 AND SMALLER WIRES WITH CONSTANT PRESSURE EXPANDABLE SPRING TYPE CONNECTORS. CONNECT #8 AND LARGER WIRES WITH COMPRESSION CONNECTORS OR SPLICES.
- INSTALL WIRING IN CONDUIT. PULL CONDUCTORS USING RECOGNIZED METHODS AND EQUIPMENT LEAVING AT LEAST 6" WIRE AT ALL JUNCTION BOXES FOR CONNECTIONS. CLEANOUT EACH CONDUIT SYSTEM TO ELIMINATE OBSTRUCTIONS OVER FULL LENGTH BEFORE PULLING WIRE.
- FORM AND TIE ALL WIRING IN PANELBOARDS. THERE SHALL BE NO WRENUT JOINTS OR SPLICES MADE INSIDE SWITCHBOARDS/PANELBOARDS.
- BRANCH CIRCUIT WIRE SIZES (AND CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL AND THE LOADS DOES NOT EXCEED LIMIT OF 2%.
- WIRE SIZES SHALL BE BASED ON THE 60°C AMPACITIES FOR WIRE SIZES #14-1 AWG AND 75°C AMPACITIES FOR WIRE SIZES #10 AWG AND LARGER.
- ALL BOLTED CONNECTIONS SHALL BE TORQUED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS. RE-TORQUE CONNECTIONS ONE MONTH OR MORE AFTER INITIAL TORQUE.

DEVICES

- WIRING DEVICE COLOR SHALL BE IVORY OR AS SELECTED BY ARCHITECT, UNLESS OTHERWISE INDICATED.
- PROVIDE TOTALLY ENCLOSED, SPECIFICATION GRADE, 20 AMPERE, 120/277 VOLT QUIET A/C GENERAL USE SNAP SWITCHES MANUFACTURED BY HUBBELL, P&S OR LEVITON.
- PROVIDE SPECIFICATION GRADE NEMA CONFIGURATION 5-20R DUPLEX 125-VOLT GROUNDING TYPE RECEPTACLES UNLESS OTHERWISE NOTED ON THE DRAWINGS. MANUFACTURED BY HUBBELL, P&S OR LEVITON.
- RECEPTACLES REQUIRING AMPERAGES, VOLTAGES OR CONFIGURATIONS DIFFERENT FROM THE DUPLEX CONVENIENCE RECEPTACLES ABOVE SHALL BE AS INDICATED ON THE DRAWINGS AND OF A QUALITY, MATERIAL AND CONSTRUCTION EQUAL TO THAT SPECIFIED FOR DUPLEX CONVENIENCE

RECEPTACLES

- PROVIDE COVER OR DEVICE PLATES FOR OUTLET BOXES AS FOLLOWS UNLESS OTHERWISE NOTED:
- FINISHED AREAS: THERMOPLASTIC-COLOR TO MATCH DEVICE
- UNFINISHED AREAS: ZINC COATED SHEET METAL, ALUMINUM, OR CAST METAL AS APPROPRIATE FOR THE TYPE OF BOX.
- EXTERIOR AREAS: COPPER FREE ALUMINUM WITH GRAY, POWDER EPOXY FINISH, GASKETED, WEATHERPROOF.
- ALL OUTLET AND/OR JUNCTION BOXES SHALL BE COMPLETE WITH A COVER PLATE BY THIS CONTRACTOR, WHERE DEVICES ARE GANGED, THEY SHALL BE INSTALLED UNDER A COMMON COVERPLATE.
- LOCATE SWITCHES AT 42" ABOVE THE FINISHED FLOOR ELEVATION ON CENTER OR NEAREST BLOCK COURSE UNLESS OTHERWISE NOTED. THE LONG DIMENSION OF THE SWITCHES SHALL BE VERTICAL.
- LOCATE RECEPTACLES APPROXIMATELY 1'-6" ABOVE THE FINISHED FLOOR ELEVATION OR NEAREST BLOCK COURSE (WITHIN ADA REQUIREMENTS), UNLESS OTHERWISE NOTED. THE LONG DIMENSION OF THE RECEPTACLE SHALL BE VERTICAL. ALL DEVICES SHALL BE FLUSH MOUNTED I.N.O.
- RECEPTACLES WITHIN 4' OF SINKS SHALL BE GFCI TYPE. ALL DEVICES INSTALLED OUTDOORS SHALL BE WEATHERPROOF AND GFCI PROTECTED.
- RECEPTACLE IN BREAK AREAS, KITCHEN AREAS OR RESTROOMS TO BE GFCI PROTECTED.
- COMMERCIAL GRADE RECEPTACLES SHALL BE PROVIDED WITH 125V, 20 AMP RATING.
- ALL POWER OUTLETS SHALL BE PERMANENTLY LABELED INDICATING CIRCUIT NUMBER SERVING RECEPTACLE, FLOOR BOXES, POKE THROUGH, TRACK, ETC.

LIGHTING

- LOCATE LIGHT SWITCHES 42" ABOVE THE FINISHED FLOOR ELEVATION ON CENTER OR NEAREST BLOCK COURSE UNLESS OTHERWISE NOTED. THE LONG DIMENSION OF THE SWITCHES SHALL BE VERTICAL.
- PROVIDE DUAL TECHNOLOGY SENSORS FOR ALL LIGHTING CONTROLS.

SAFETY SWITCHES

- PROVIDE DISCONNECT SWITCHES FOR ALL EQUIPMENT, WHERE REQUIRED BY CODE. MANUFACTURER SHALL BE SQUARE D, SIEMENS, G.E., OR OUTLER-HAMMER. ALL SAFETY SWITCHES SHALL BE BY ONE MANUFACTURER.
- SAFETY SWITCHES SHALL BE THE ENCLOSED HEAVY-DUTY TYPE (TYPE HD) WITH QUICK-MAKE, QUICK-BREAK MECHANISM AND EXTERNAL PAD LOOKABLE OPERATING HANDLE.
- SAFETY SWITCHES SHALL BE RATED FOR 240 OR 600 VOLTS AS APPLICABLE. THEY SHALL BE HORSEPOWER RATED WHEN USED IN MOTOR CIRCUITS.
- SAFETY SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE 2, 3 OR 4 POLE AS INDICATED ON THE DRAWINGS. SAFETY SWITCHES SHALL BE SINGLE.
- MOUNT THE SAFETY SWITCHES SECURELY BETWEEN 3' X 6' LEVELS ABOVE THE FLOOR UNLESS OTHERWISE NOTED IN THE DRAWINGS. SWITCHES ON BLOCK WALLS SHALL BE MOUNTED ON A 3/4" PLYWOOD BACKBOARD, WHERE LOCATED INDOORS.
- THE CONTRACTOR SHALL FURNISH A COMPLETE SET OF FUSES FOR ALL FUSIBLE SWITCHES, PLUS FUSIBLE EQUIPMENT FURNISHED BY OTHER TRADES, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, THE FUSES SHALL BE OF THE FOLLOWING TYPE:
 - FUSES 601 TO 6000 AMPS SHALL BE UL CLASS RKS. TRADE TYPE SHALL BE KRP-C AS MANUFACTURED BY THE BUSSMANN COMPANY.
 - FUSES 1/10 TO 600 AMPS SHALL BE UL CLASS R1. TRADE TYPE SHALL BE LOW PEAK LPS-RK (600V) AND LPN-RK (250C) AS MANUFACTURED BY BUSSMANN COMPANY.
 - ALL OTHER FUSES SHALL BE DUAL ELEMENT CURRENT LIMITING TYPE WITH 200,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY.
- THIS CONTRACTOR SHALL REPLACE ALL FUSES BLOWN DURING CONSTRUCTION.
- SERVICE DISCONNECTS SHALL BE LABELED PER ARTICLE 110.22(A). PROVIDE WEATHERPROOF, PERMANENT LABELING AS REQUIRED BY CODE.

MOTOR STARTERS

- STARTERS SHALL BE SQUARE D, G.E., OUTLER-HAMMER/WESTINGHOUSE, OR SIEMENS.
- COORDINATE ALL EQUIPMENT INDICATED ON THE ELECTRICAL DRAWINGS WITH MECHANICAL EQUIPMENT SCHEDULES AND SPECIFICATIONS.
- STARTERS AND DISCONNECTS SUPPLIED AS AN INTEGRAL PART OF EQUIPMENT SHALL BE FURNISHED UNDER THE DIVISION PROVIDING THE EQUIPMENT. WIRING AND EQUIPMENT CONNECTIONS SHALL BE BY THIS CONTRACTOR.

TRANSFORMERS

- THE KVA AND VOLTAGE RATINGS SHALL BE AS INDICATED ON THE DRAWINGS.
- TRANSFORMERS SHALL BE DESIGNED FOR CONTINUOUS OPERATION AT RATED

- KVA, FOR 24 HOURS A DAY, 365 DAYS A YEAR OPERATION, WITH NORMAL LIFE EXPECTANCY AS DEFINED IN ANSI C57.96.
- TRANSFORMER SHALL MEET THE REQUIREMENTS OF THE MOST CURRENT VERSION OF FEDERAL LAW 10 CFR PART 431 "ENERGY EFFICIENCY PROGRAM FOR CERTAIN COMMERCIAL AND INDUSTRIAL EQUIPMENT".
- TRANSFORMERS EFFICIENCY SHALL BE MEASURED ACCORDING TO FEDERAL LAW 10 CFR PART 431.
- TRANSFORMER SOUND LEVELS SHALL NOT EXCEED ANSI AND NEMA LEVELS FOR SELF-COOLED TRANSFORMERS.
- THE ENCLOSURE SHALL BE MADE OF HEAVY-GAUGE STEEL.
- ALL TRANSFORMERS SHALL BE EQUIPPED WITH A WIRING COMPARTMENT SUITABLE FOR CONDUIT ENTRY AND LARGE ENOUGH TO ALLOW CONVENIENT WIRING.
- THE MAXIMUM TEMPERATURE OF THE ENCLOSURE SHALL NOT EXCEED 90 DEGREES C PER UL REQUIREMENT.
- THE CORE OF THE TRANSFORMER SHALL BE GROUNDED TO THE ENCLOSURE.

DISTRIBUTION PANELS

- DISTRIBUTION PANELS SHALL BE DEAD FRONT TYPE WITH CIRCUIT BREAKERS, FUSES AND HEAVY-DUTY SWITCHES OF SIZE AND NUMBER INDICATED ON THE PANELS. PANELS SHALL BE MANUFACTURED AS A COMPLETE UNIT AND NOT AN ASSEMBLY OF PARTS SECURED FROM A SUPPLY ALL BUS BARS SHALL BE RECTANGULAR SOLID COPPER.
- ALL LUGS SHALL BE UL APPROVED CU/AL TYPE. VERTICAL BUSSING SHALL BE EXTENDED THE FULL LENGTH OF THE PANEL.
- ALL PANELS SHALL BE CAPABLE OF ACCEPTING SWITCH SIZES UP TO AND INCLUDING 600 AMPS.
- DISTRIBUTION PANELS SHALL BE G.E., SQUARE "D", SIEMENS, OR WESTINGHOUSE.
- THE INDIVIDUAL SWITCH AND FUSE UNITS SHALL BE OF THE QUICK-MAKE, QUICK-BREAK TYPE.
- FUSED UNITS SHALL HAVE HINGED FUSE COMPARTMENTS WITH INTERLOCKED FUSE DOORS WHEN THE EXTERNALLY OPERATED HANDLE IS IN THE OFF POSITION. THESE UNITS SHALL BE REMOVABLE AND ACCESSIBLE FROM THE FRONT SO THAT THE CABINET MAY BE WALL-MOUNTED.
- INSTALL PANELS SUCH THAT HANDLE FOR THE TOP SWITCH DOES NOT EXCEED 6'-6" ABOVE FINISHED FLOOR.
- SURFACE-MOUNTED PANELS SHALL BE MOUNTED ON A 3/4" PLYWOOD BACKBOARD. FLOOR-MOUNTED PANELS SHALL BE MOUNTED ON A 4" HIGH CONCRETE PAD.
- PROVIDE PHENOLIC LABELS FOR EACH PANEL AND FOR EACH SWITCH.
- ALL DISTRIBUTION PANELS SHALL BE PERMANENTLY LABELED TO INDICATE WHERE THE POWER SERVING THE DISTRIBUTION PANEL ORIGINATES PER THE REQUIREMENT OF NEC 408.4(B).

PANELBOARDS

- PANELBOARDS SHALL BE ENCLOSED DEAD FRONT SAFETY TYPE WITH FEATURES AND RATINGS AS SCHEDULED ON DRAWINGS. ALL BUS BARS SHALL BE RECTANGULAR SOLID COPPER. SPACE, WHERE SHOWN IN PANEL SCHEDULES, DESIGNATES SPACE FOR FUTURE PROTECTIVE DEVICES AND SHALL INCLUDE BUS AND SUPPORT. PANELS KNOWN AS "LOAD CENTERS" ARE UNACCEPTABLE.
- MANUFACTURER SHALL BE SQUARE D, SIEMENS, GE OR OUTLER-HAMMER.
- MOLDED CASE CIRCUIT BREAKERS SHALL BE AS SCHEDULED ON THE DRAWINGS AND SPECIFIED IN THIS DIVISION. ALL BREAKERS SHALL BE BOLT ON TYPE. ALL BOLTED CONNECTIONS SHALL BE TORQUED IN ACCORDANCE WITH MANUFACTURERS STANDARDS. RE-TORQUE ALL CONNECTIONS ONE MONTH AFTER INITIAL TORQUE.
- INSTALL CABINETS SO THAT CENTER OF THE TOP BREAKER DOES NOT EXCEED 6'-6" ABOVE THE FINISHED FLOOR. PROVIDE (2) SPARE 1" CONDUITS INTO ACCESSIBLE CEILING WHERE PANELS ARE FLUSH MOUNTED.
- ELECTRICAL CONTRACTOR SHALL ARRANGE CIRCUITS AS NEAR AS POSSIBLE TO CIRCUIT BREAKERS IN THE DRAWINGS. AT COMPLETION OF JOB, ELECTRICAL CONTRACTOR SHALL TAKE CURRENT READING CHECKS OF RESPECTIVE PHASES. A MINIMUM OF CIRCUIT CONNECTIONS SHALL BE REARRANGED TO BALANCE, AS CLOSELY AS POSSIBLE, THE LOAD IN THE PANEL.
- ENTRIES ON DIRECTORY CARDS SHALL BE TYPED, COMPLETE AND ACCURATE. FINAL ROOM NAMES/NUMBERS MAY BE DIFFERENT FROM THOSE USED ON PLANS AND SHOULD BE USED TO CREATE DIRECTORIES.
- ALL PANELBOARDS SHALL BE PERMANENTLY LABELED TO INDICATE WHERE THE POWER SERVING THE PANELBOARD ORIGINATES PER THE REQUIREMENT OF NEC 408.4(B).

GROUNDING

- GROUND ALL EQUIPMENT PER NEC. GROUND ALL EQUIPMENT PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS. GROUND ALL EQUIPMENT TO A GROUNDING ELECTRODE OR TO THE BUILDING GROUNDING ELECTRODE SYSTEM UNLESS IT MEETS THE EXCEPTION OF NEC 250.32(A).
- ALL CONDUITS SHALL CONTAIN A CODE SIZED GROUND WIRE SIZE PER NEC IN ADDITION TO THE CONDUCTORS SHOWN ON THE PLANS. WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE, THE GROUND WIRE SIZE SHALL BE INCREASED PROPORTIONALLY.
- WHERE AN ISOLATED, INSULATED GROUND IS REQUIRED A SEPARATE GREEN GROUND SHALL BE RUN FROM THE PANEL, GROUND BUS TO THE ISOLATED GROUND CONNECTION OF THE DEVICE SERVED.
- IN NO CASE SHALL THE SYSTEM GROUND (WIRE AND ASSOCIATED OUTLET BOXES, CONDUIT AND BUILDING STEEL) BE ALLOWED TO CONTACT THE ISOLATED GROUND (GREEN WIRE AND DEVICE GROUND).

COMMUNICATION SYSTEMS

- PROVIDE A 3/4" THICK PLYWOOD TERMINAL BOARD AS SHOWN ON DRAWINGS.
- ELECTRICAL CONTRACTOR TO PROVIDE TELEPHONE SERVICE CONDUIT OR DUCT TO TELEPHONE BOARD AS SHOWN ON PLANS. CONDUIT TO BE A MINIMUM OF 1".
- THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUITS WITH PULL WIRES, OUTLET BOXES, METAL CABINETS AND PULL BOXES. PROVIDE A COMPLETE CONDUIT SYSTEM WITH PULL WIRES AS INDICATED ON THE DRAWINGS. ALL CONDUIT RUN SHALL HAVE NOT MORE THAN THREE (3) BENDS IN A RUN BETWEEN OUTLET BOXES OR BETWEEN OUTLET BOX AND A METAL CABINET OR PULL BOX.
- WHEN A RUN REQUIRES MORE THAN THREE (3) BENDS, A PULL BOX OF SUITABLE SIZE SHALL BE PLACED IN A SUITABLE LOCATION TO MEET THE ABOVE CONDITIONS.
- COORDINATE TELEPHONE AND DATA OUTLET LOCATIONS WITH OWNER. PROVIDE OUTLET BOX AND EMPTY RACEWAY WITH PULL WIRE IN INSULATED OR SOLID OR INACCESSIBLE AREAS.
- PROVIDE PLATES OF SAME MATERIAL AND FINISH AS SPECIFIED FOR RECEPTACLES. WALL PHONE PLATES SHALL HAVE MOUNTING STUDS.

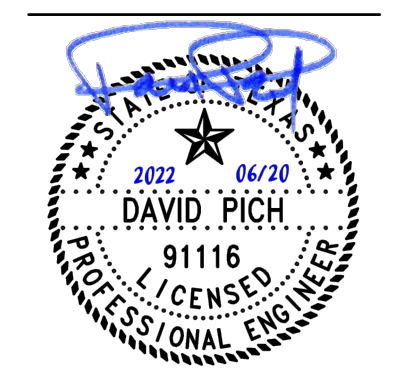
MOUNTING HEIGHTS

- RECEPTACLES SHALL BE MOUNTED AT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- LIGHT SWITCHES, THERMOSTATS, FIRE ALARM PULL STATIONS AND SIMILAR DEVICES SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

ELECTRICAL CONNECTIONS AND TERMINATIONS

- PER NEC ARTICLE 110.10(D), ALL TERMINATIONS, BOTH EXISTING AND NEW, SHALL BE TORQUED PER MANUFACTURERS SPECIFICATIONS UTILIZING A CALIBRATED TORQUE TOOL. UNLESS THE MANUFACTURER HAS PROVIDED INSTALLATION INSTRUCTIONS FOR AN ALTERNATE METHOD OF ACHIEVING THE REQUIRED TORQUE, ELECTRICAL CONTRACTOR SHALL PROVIDE A LETTER TO THE ELECTRICAL INSPECTOR STATING THAT ALL ELECTRICAL EQUIPMENT, BOTH EXISTING AND NEW, HAS BEEN TORQUED PROPERLY ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.

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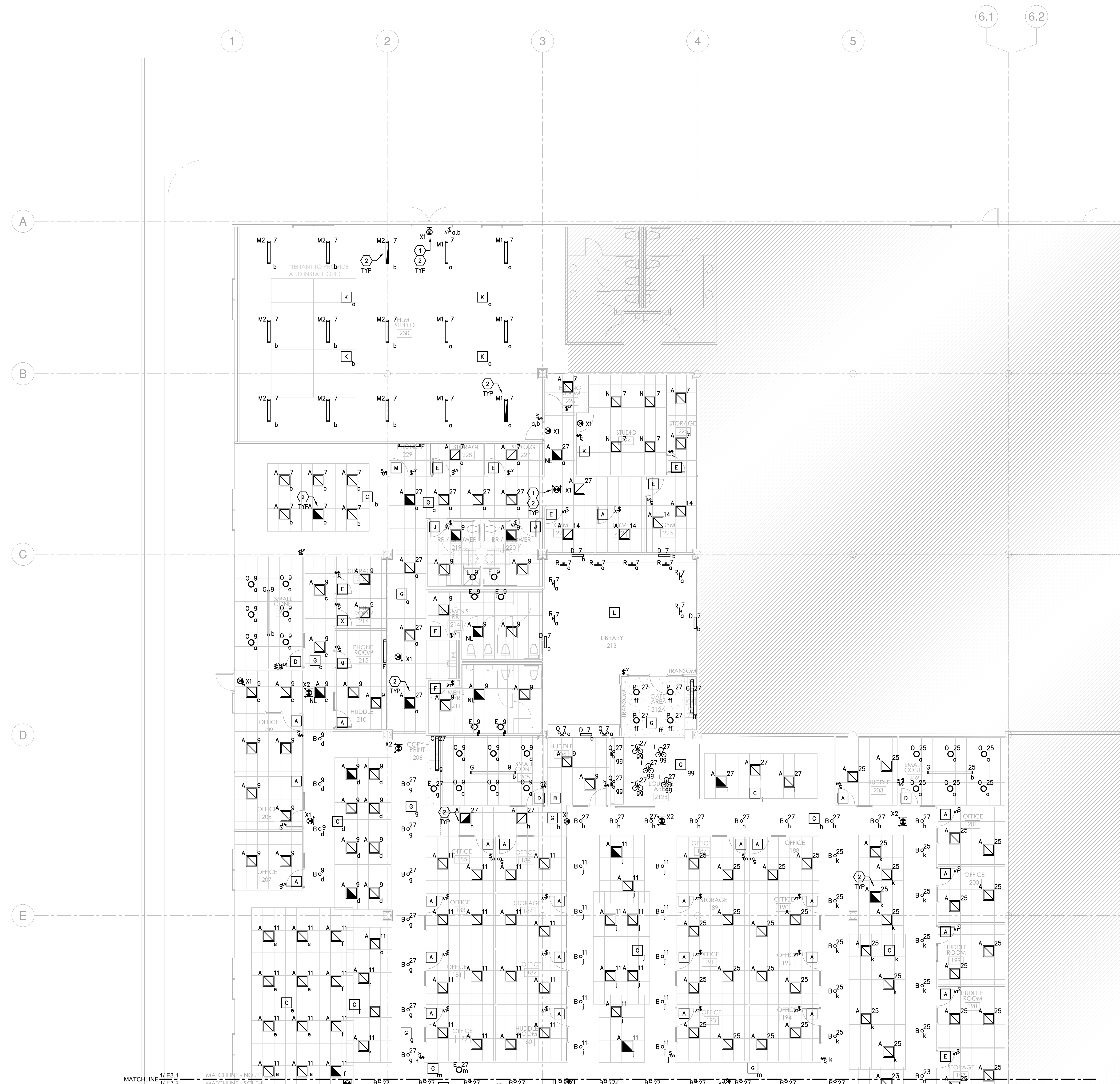
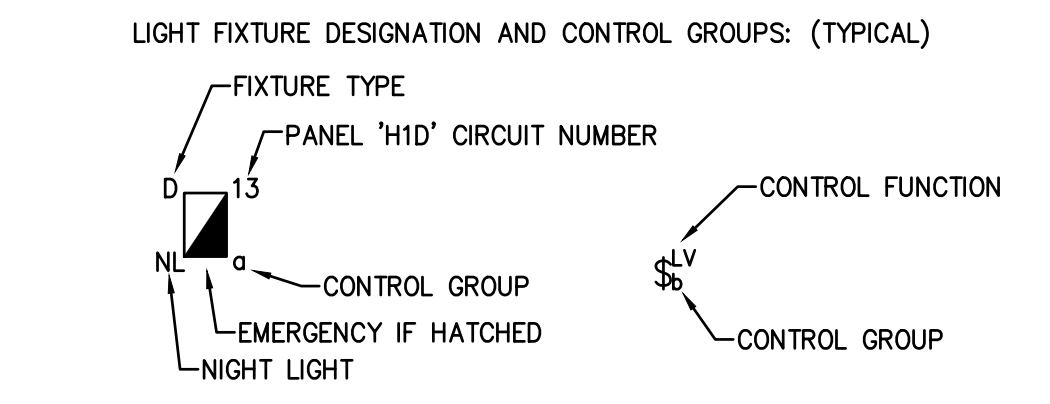
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KEYED NOTES (NOT ALL NOTES APPLY TO THIS SHEET)

- 1 ALL EXIT SIGNS ARE TO REMAIN UNSWITCHED. CIRCUIT TO NEAREST LIGHTING CIRCUIT.(TYPICAL)
- 2 PROVIDE EXITS AND EMERGENCY LIGHTS WITH 90-MINUTE BATTERY PACK. PROVIDE WITH SELF-DIAGNOSTICS AND TEST BUTTON MOUNTED IN ACCESSIBLE LOCATION.
- 3 NIGHT LIGHTS TO REMAIN UNSWITCHED. (TYPICAL)

BOX NOTES (NOT ALL NOTES APPLY TO THIS SHEET)

- 1 BOX NOTES SPECIFY LIGHTING CONTROL SCHEMES, REFER TO SHEET E5.0 FOR THE LIGHTING CONTROL PERFORMANCE SPECIFICATION. THE SCHEDULE REFLECTS MINIMUM REQUIREMENTS BY AREA TYPE, BUT DOES NOT IDENTIFY SPECIFIC PRODUCTS TO MEET REQUIREMENTS. SUBMITTAL FOR LIGHTING PACKAGE ARE TO INCLUDE LIGHT FIXTURES AS WELL AS CONTROLS COMPONENTS AND SEQUENCES TO COMPLY WITH SCHEDULE AND IECC REQUIREMENTS.

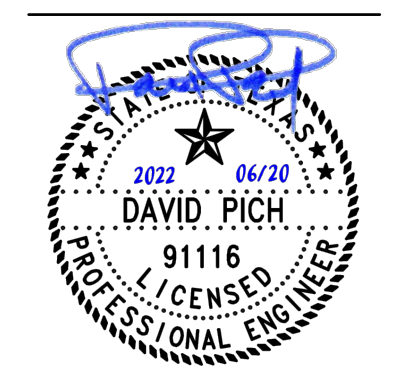


1 NORTH LIGHTING PLAN
SCALE: 1/8"=1'-0"

PROJECT: 21-085
BUILDING CONTACT
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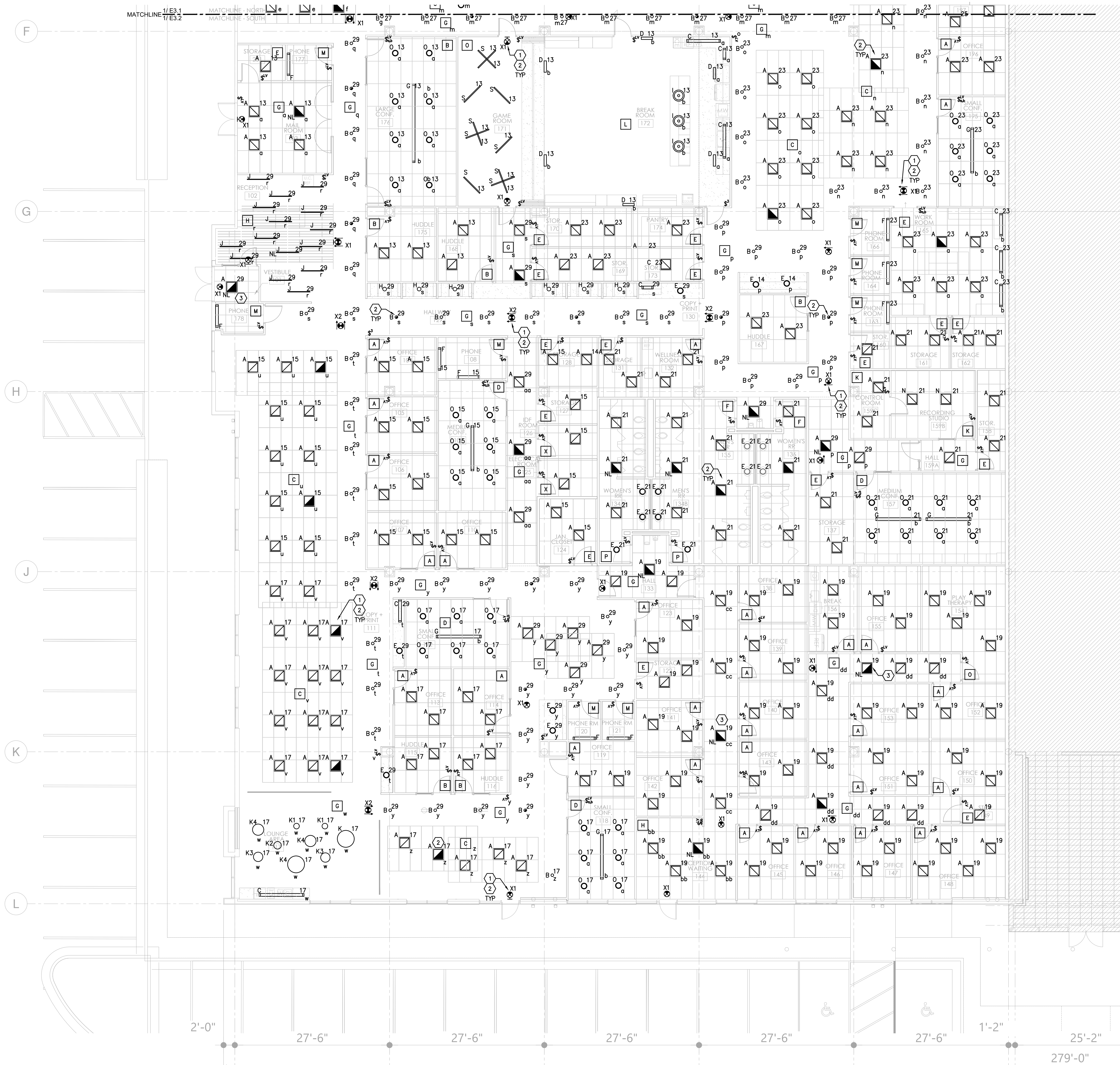
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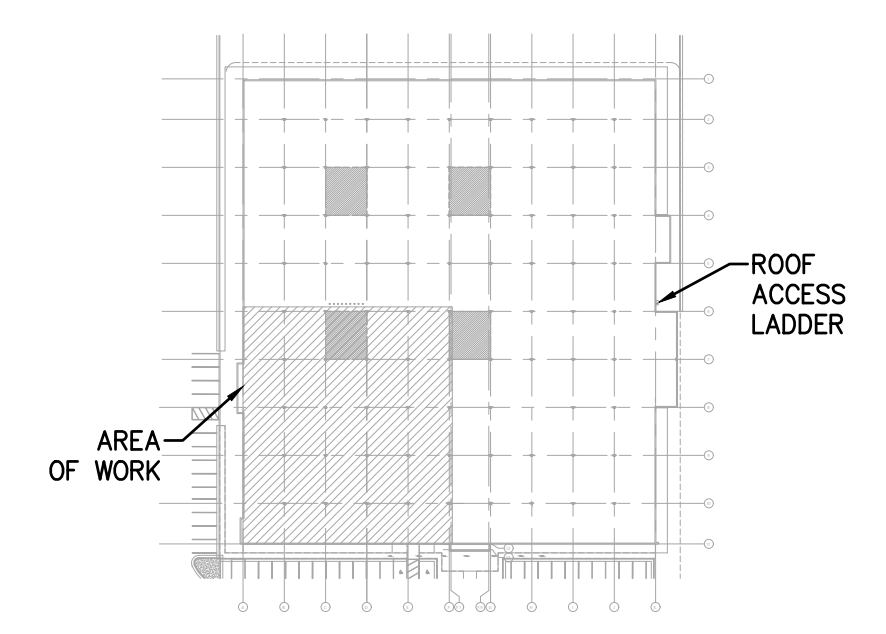
NORTH LIGHTING PLAN
E3.1
PROJECT NO.
21-043



1 SOUTH LIGHTING PLAN
E3.2 SCALE: 1/8"=1'-0"

- KEYED NOTES** (NOT ALL NOTES APPLY TO THIS SHEET)
- 1 ALL EXIT SIGNS ARE TO REMAIN UNSWITCHED. CIRCUIT TO NEAREST LIGHTING CIRCUIT.(TYPICAL)
 - 2 PROVIDE EXITS AND EMERGENCY LIGHTS WITH 90-MINUTE BATTERY PACK. PROVIDE WITH SELF-DIAGNOSTICS AND TEST BUTTON MOUNTED IN ACCESSIBLE LOCATION.
 - 3 NIGHT LIGHTS TO REMAIN UNSWITCHED. (TYPICAL)

- BOX NOTES** (NOT ALL NOTES APPLY TO THIS SHEET)
- 4 BOX NOTES SPECIFY LIGHTING CONTROL SCHEMES, REFER TO SHEET E5.0 FOR THE LIGHTING CONTROL PERFORMANCE SPECIFICATION. THE SCHEDULE REFLECTS MINIMUM REQUIREMENTS BY AREA TYPE, BUT DOES NOT IDENTIFY SPECIFIC PRODUCTS TO MEET REQUIREMENTS. SUBMITTAL FOR LIGHTING PACKAGE ARE TO INCLUDE LIGHT FIXTURES AS WELL AS CONTROLS COMPONENTS AND SEQUENCES TO COMPLY WITH SCHEDULE AND IECC REQUIREMENTS.
- LIGHT FIXTURE DESIGNATION AND CONTROL GROUPS: (TYPICAL)
-

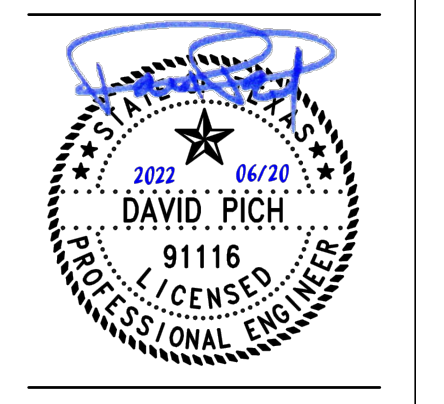


KEY PLAN

PROJECT: 21-043
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SOUTH LIGHTING PLAN

E3.2
PROJECT NO.
21-043

ELECTRICAL DEVICE SPECIFICATIONS

- TVB-1** FLUSH MOUNTED TV BACKBOX CHIEF #PACS25 OR APPROVED EQUAL. INSTALL WITH RECEPTACLE AT TOP-LEFT AND DATA AT LOWER-RIGHT LOCATION. PROVIDE 1-1/4" CONDUIT WITH PULLSTRING TO 6" ABOVE CEILING TO ACCOMMODATE LOW VOLTAGE WIRING BY OTHERS.
- FB-1** PROVIDE 10-GANG ON-GRADE FLOOR BOX, HUBBELL #CFB10G55OR OR APPROVED EQUAL WITH (2) DUPLEX RECEPTACLES, (2) DATA DROPS, DEVICE MOUNTING PLATES, AND ALL REQUIRED ACCESSORIES. CONFIRM COVER FINISH WITH ARCHITECT. CONFIRM WITH CLIENT, FINAL HDMI APPURTENANCES FIT WITHIN FLOOR BOX PRIOR TO ORDERING.
- FB-2** PROVIDE 6-GANG ON-GRADE FLOOR BOX, HUBBELL #CFB6G3OROR OR APPROVED EQUAL WITH (2) DUPLEX RECEPTACLES, (4) DATA DROPS, DEVICE MOUNTING PLATES, AND ALL REQUIRED ACCESSORIES. CONFIRM COVER FINISH WITH ARCHITECT.

ELECTRICAL DEVICE SPECIFICATIONS

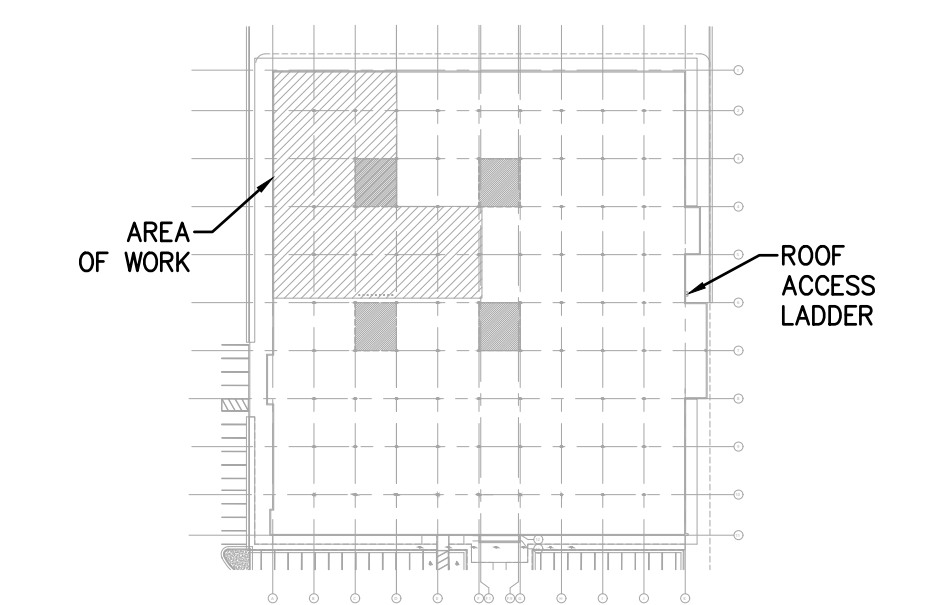
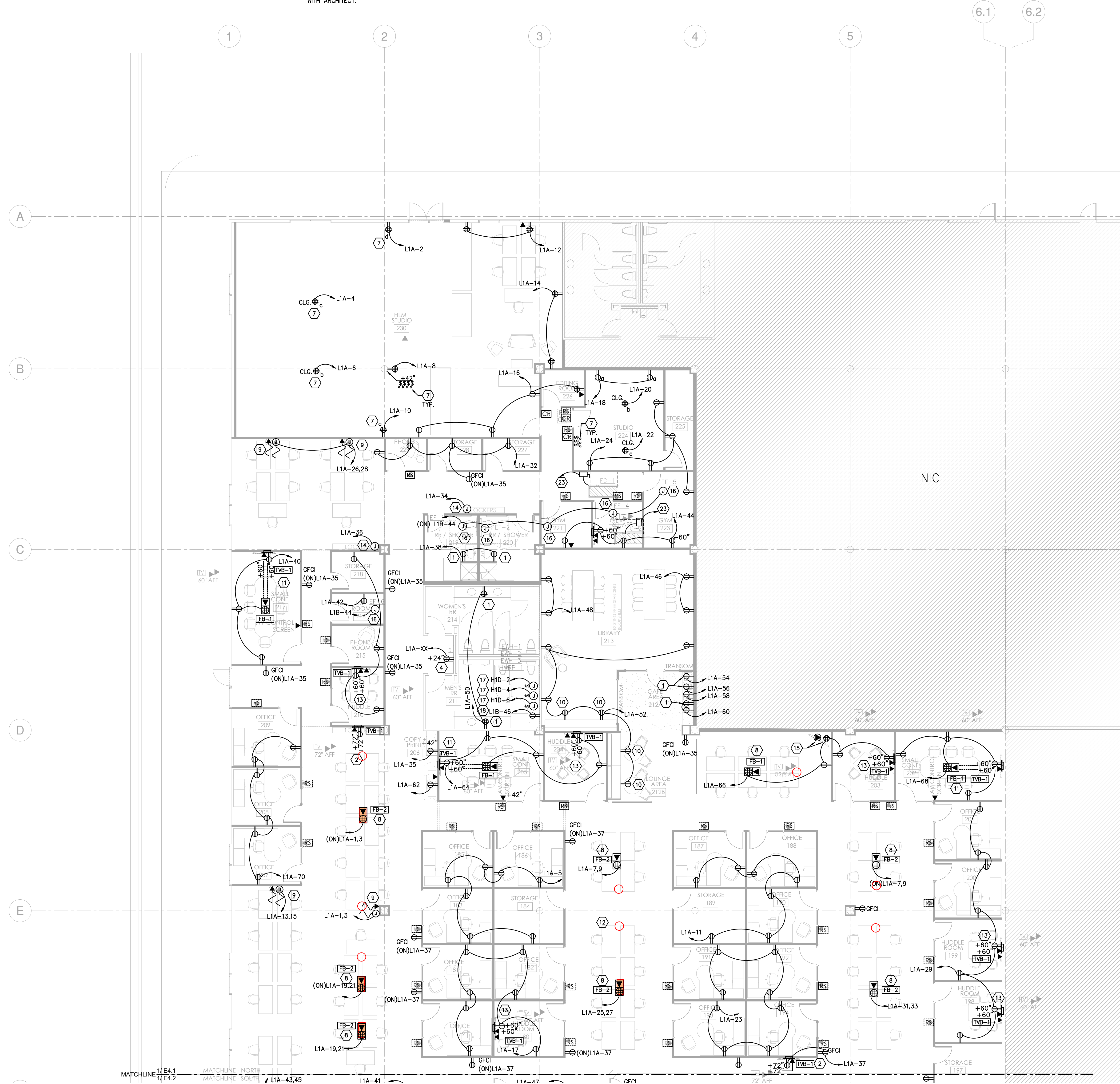
- 120V RECEPTACLES**
ALL RECEPTACLES SHALL BE 20 AMP RATED, DECORA STYLE. HUBBELL #DR20 OR APPROVED EQUAL BY COOPER, LEVITON OR PASS AND SEYMOR. GFCI RECEPTACLES SHALL BE HUBBELL 20A AUTOGUARD OR APPROVED EQUAL. COLOR BY ARCHITECT.
- AUTOMATIC RECEPTACLE CONTROL (IECC REQUIREMENT):** AUTOMATICALLY DE-ENERGIZED 50% OF RECEPTACLES IN OPEN OFFICE FURNITURE SYSTEMS. CONTROLLED VIA LIGHTING CONTROLS/SENSORS. COORDINATE MULTI-CIRCUIT WIRING THOROUGHLY WITH FURNITURE VENDOR.

ELECTRICAL DEVICE SPECIFICATIONS

- DATA SYMBOL REPRESENTS A DATA BOX ROUGH-IN LOW ON WALL WITH 3/4" CONDUIT AND PULLSTRING TO 6" ABOVE CEILING OR 12" FROM STRUCTURE ABOVE IF NO CEILING WILL BE INSTALLED AT THE LOCATION. CONFERENCE ROOMS AND OPEN OFFICE AREAS REQUIRE LARGER CONDUIT AND ALTERNATE CONFIGURATIONS AS NOTED ON PLANS.**
- RS** PROVIDE SINGLE GANG DATA BOX AND 3/4" C. W/PULLSTRING TO 6" ABOVE DROP CEILING SIDE OF WALL. NO "OPEN-TO-DECK" WALL SIDE PENETRATIONS. CONFIRM LOCATIONS AND HEIGHTS WITH AV CONSULTANT AND ARCHITECT PRIOR TO ROUGH-IN.

KEYED NOTES (NOT ALL NOTES APPLY TO THIS SHEET)

- 1 PROVIDE G.F.C.I. RECEPTACLE(S) AT 6" ABOVE COUNTERTOP. COORDINATE EXACT HEIGHT WITH FINAL MILLWORK PROCUREMENT PRIOR TO ROUGH-IN.
- 2 **IN-WALL TV BOX**
PROVIDE TVB-1 AT UPPER HEIGHT TO ACCOMMODATE DUPLEX RECEPTACLE AND DATA. SEE ELECTRICAL DEVICE SPECIFICATIONS THIS PAGE. LOCATE DEVICES IN FULL COORDINATION WITH ARCHITECTURAL DRAWINGS.
- 3 PROVIDE MOTOR RATED SNAP SWITCH FOR POWER TO EWH.
- 4 PROVIDE GFCI BREAKER FOR ELECTRIC WATER COOLER OR WATER DISPENSER.
- 5 PROVIDE TWO(2) 2" SLEEVES, CAPPED ON BOTH SIDES AT 6" AFF AND WITHIN 12" OF ADJACENT WALL.
- 6 PROVIDE TWO(2) SETS 3" C. SLEEVES PENETRATING WALL IN ACCESSIBLE ABOVE CEILING LOCATION.
- 7 LOWER CASE LETTER ADJACENT TO DEVICES INDICATES SWITCHED RECEPTACLE(S).
- 8 **FLOORBOX & FURNITURE SYSTEMS:**
ROUTE POWER CONDUIT AND 1-1/2" DATA CONDUIT FROM FLOORBOX FB-2 TO ABOVE CEILING LOCATION. REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS AND LOCATIONS. CONTRACTOR TO X-RAY SLAB FOR IN-SLAB OBSTRUCTIONS AND COORDINATE DISCREPANCIES WITH ARCHITECT PRIOR TO CONCRETE CUTTING. PROVIDE AUTOMATIC RECEPTACLE CONTROL.
- 9 PROVIDE JUNCTION BOX AND 1-1/2" DATA ROUGH-IN TO SERVE SYSTEMS FURNITURE. COORDINATE EXACT REQUIREMENTS AND FURNITURE WIRING CONFIGURATION WITH FURNITURE VENDOR PRIOR TO PROCUREMENT OR INSTALLATION. PROVIDE AUTOMATIC RECEPTACLE CONTROL.
- 10 PROVIDE U.S.B. RECEPTACLE WITHIN BENCH. COORDINATE EXACT HEIGHT WITH CASEWORK PROVIDER AND ARCHITECT.
- 11 **TV BOX & FLOORBOX:**
PROVIDE FLUSH MOUNTED TV BOX TVB-1 AT UPPER HEIGHT TO ACCOMMODATE DUPLEX RECEPTACLE AND DATA. PROVIDE ON-GRADE FLOORBOX FB-1, SEE ELECTRICAL DEVICE SPECIFICATIONS THIS PAGE. PROVIDE 1-1/4" CONDUIT FROM FB-1 TO TVB-1 TO ABOVE CEILING WITH PULL STRING TO ACCOMMODATE LOW VOLTAGE WIRING BY OTHERS. REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS AND LOCATIONS. CONTRACTOR TO X-RAY SLAB FOR IN-SLAB OBSTRUCTIONS AND COORDINATE DISCREPANCIES WITH ARCHITECT PRIOR TO CONCRETE CUTTING.
- 12 NO DATA CONDUITS PENETRATING THIS SIDE OF WALL TO OPEN DECK.
- 13 **IN-WALL TV BOX W/O OVER DATA:**
PROVIDE TVB-1 AT UPPER HEIGHT TO ACCOMMODATE DUPLEX RECEPTACLE AND DATA. PROVIDE 1-1/4" CONDUIT FROM LOWER DATA LOCATION TO TVB-1 TO ABOVE CEILING WITH PULL STRING TO ACCOMMODATE LOW VOLTAGE WIRING BY OTHERS. SEE ELECTRICAL DEVICE SPECIFICATIONS THIS PAGE. LOCATE DEVICES IN FULL COORDINATION WITH ARCHITECTURAL DRAWINGS.
- 14 PROVIDE FLUSH-MOUNTED 4" SQUARE JUNCTION AT 18" AFF BEHIND LOCKERS WITH FLUSH MOUNTED COVER. COORDINATE FINISH WITH ARCHITECT.
- 15 **TV AT CLG.**
PROVIDE POWER AND DATA FOR CEILING MOUNTED TV MOUNT. COORDINATE FINAL TV LOCATION WITH ARCHITECT OR AV CONSULTANT.
- 16 SINGLE-POINT CONNECTION TO EXHAUST FAN. SEE FAN SCHEDULE FOR CONTROLS. COORDINATE EXACT LOCATION WITH MECHANICAL.
- 17 PROVIDE MOTOR RATED SNAP SWITCH FOR POWER TO ELECTRIC WATER HEATER. COORDINATE BEST LOCATION WITH PLUMBING.
- 18 PROVIDE POWER TO RECEPTACLE SERVING WATER RE-CIRCULATION PUMP. MOUNT IN ACCESSIBLE ABOVE CEILING LOCATION. COORDINATE WITH FINAL PLUMBING EQUIPMENT LOCATION.
- 19 PROVIDE POWER TO SEWAGE INJECTOR LOCATED IN BASE CABINET.
- 20 COORDINATE EXACT LOCATION OF SECURITY POWER JUNCTION BOX WITH SECURITY VENDOR AND ARCHITECT.
- 21 PROVIDE POWER TO DISHWASHER. LOCATE SWITCH ABOVE COUNTER IN ALIGNMENT WITH RECEPTACLES. COORDINATE LOCATION WITH ARCHITECT.
- 22 PROVIDE TAMPER PROOF DEVICES FOR ALL RECEPTACLES WITHIN AREA INDICATED.
- 23 PROVIDE 480V, 30A, 3P, NEMA1 DISCONNECT FOR POWER TO FAN COIL. INDOOR UNITS ARE POWERED BY OUTDOOR UNITS. SEE ROOF PLAN.



1 NORTH POWER PLAN
E4.1 SCALE: 1/8"=1'-0"

PROJECT: 21-085
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2022 06/20
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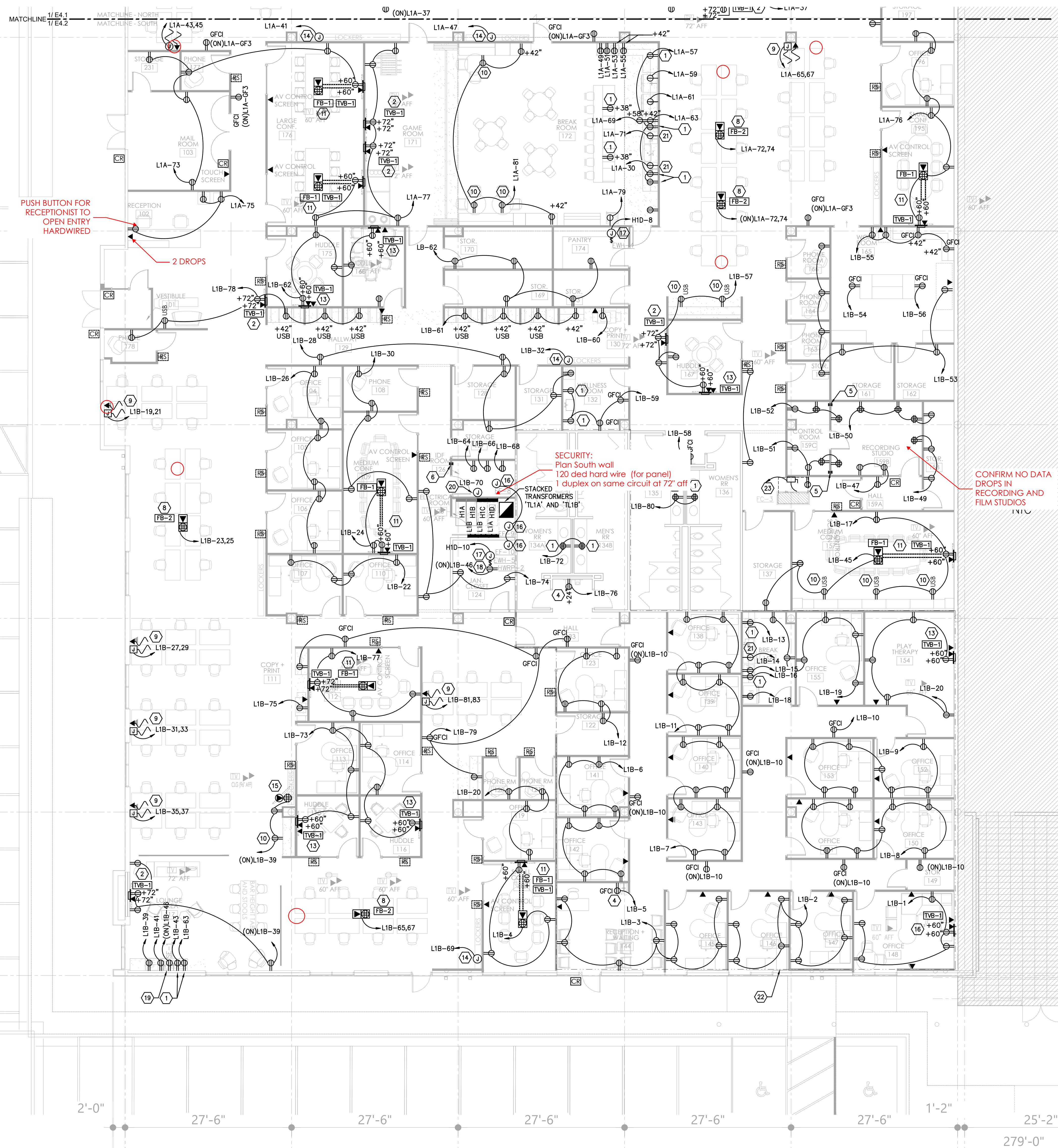
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NORTH POWER PLAN
E4.1
PROJECT NO.
21-043



- KEYED NOTES (NOT ALL NOTES APPLY TO THIS SHEET)**
- PROVIDE G.F.C.I. RECEPTACLE(S) AT 6" ABOVE COUNTERTOP. COORDINATE EXACT HEIGHT WITH FINAL MILLWORK PROCUREMENT PRIOR TO ROUGH-IN.
 - IN-WALL TV BOX**
PROVIDE TVB-1 AT UPPER HEIGHT TO ACCOMMODATE DUPLEX RECEPTACLE AND DATA. SEE ELECTRICAL DEVICE SPECIFICATIONS THIS PAGE. LOCATE DEVICES IN FULL COORDINATION WITH ARCHITECTURAL DRAWINGS.
 - PROVIDE MOTOR RATED SNAP SWITCH FOR POWER TO EWH.
 - PROVIDE GFCI BREAKER FOR ELECTRIC WATER COOLER OR WATER DISPENSER.
 - PROVIDE TWO(2) 2" SLEEVES, CAPPED ON BOTH SIDES AT 6" AFF AND WITHIN 12" OF ADJACENT WALL.
 - PROVIDE TWO(2) SETS 3" C. SLEEVES PENETRATING WALL IN ACCESSIBLE ABOVE CEILING LOCATION.
**NO WALLS TO DECK
NO SLEEVES NEEDED**
 - LOWER CASE LETTER ADJACENT TO DEVICES INDICATES SWITCHED RECEPTACLE(S).
 - FLOORBOX & FURNITURE SYSTEMS:**
ROUTE POWER CONDUIT AND 1-1/2" DATA CONDUIT FROM FLOORBOX FB-2 TO ABOVE CEILING LOCATION. REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS AND LOCATIONS. CONTRACTOR TO X-RAY SLAB FOR IN-SLAB OBSTRUCTIONS AND COORDINATE DISCREPANCIES WITH ARCHITECT PRIOR TO CONCRETE CUTTING. PROVIDE AUTOMATIC RECEPTACLE CONTROL.
 - PROVIDE JUNCTION BOX AND 1-1/2" DATA ROUGH-IN TO SERVE SYSTEMS FURNITURE. COORDINATE EXACT REQUIREMENTS AND FURNITURE WIRING CONFIGURATION WITH FURNITURE VENDOR PRIOR TO PROCUREMENT OR INSTALLATION. PROVIDE AUTOMATIC RECEPTACLE CONTROL.
 - TV BOX & FLOORBOX:**
PROVIDE FLUSH MOUNTED TV BOX TVB-1 AT UPPER HEIGHT TO ACCOMMODATE DUPLEX RECEPTACLE AND DATA. PROVIDE ON-GRADE FLOORBOX FB-1. SEE ELECTRICAL DEVICE SPECIFICATIONS THIS PAGE. PROVIDE 1-1/4" CONDUIT FROM FB-1 TO TVB-1 TO ABOVE CEILING WITH PULL STRING TO ACCOMMODATE LOW VOLTAGE WIRING BY OTHERS. REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS AND LOCATIONS. CONTRACTOR TO X-RAY SLAB FOR IN-SLAB OBSTRUCTIONS AND COORDINATE DISCREPANCIES WITH ARCHITECT PRIOR TO CONCRETE CUTTING.
 - NO DATA CONDUITS PENETRATING THIS SIDE OF WALL TO OPEN DECK.
 - IN-WALL TV BOX W/LOWER DATA:**
PROVIDE TVB-1 AT UPPER HEIGHT TO ACCOMMODATE DUPLEX RECEPTACLE AND DATA. PROVIDE 1-1/4" CONDUIT FROM LOWER DATA LOCATION TO TVB-1 TO ABOVE CEILING WITH PULL STRING TO ACCOMMODATE LOW VOLTAGE WIRING BY OTHERS. SEE ELECTRICAL DEVICE SPECIFICATIONS THIS PAGE. LOCATE DEVICES IN FULL COORDINATION WITH ARCHITECTURAL DRAWINGS.
 - PROVIDE FLUSH-MOUNTED 4" SQUARE JUNCTION AT 18" AFF BEHIND LOCKERS WITH FLUSH MOUNTED COVER. COORDINATE FINISH WITH ARCHITECT.
 - TV AT CLG.**
PROVIDE POWER AND DATA FOR CEILING MOUNTED TV MOUNT. COORDINATE FINAL TV LOCATION WITH ARCHITECT OR AV CONSULTANT.
 - SINGLE-POINT CONNECTION TO EXHAUST FAN. SEE FAN SCHEDULE FOR CONTROLS. COORDINATE EXACT LOCATION WITH MECHANICAL.
 - PROVIDE MOTOR RATED SNAP SWITCH FOR POWER TO ELECTRIC WATER HEATER. COORDINATE BEST LOCATION WITH PLUMBING.
 - PROVIDE POWER TO RECEPTACLE SERVING WATER RE-CIRCULATION PUMP. MOUNT IN ACCESSIBLE ABOVE CEILING LOCATION. COORDINATE WITH FINAL PLUMBING EQUIPMENT LOCATION.
 - PROVIDE POWER TO SEWAGE INJECTOR LOCATED IN BASE CABINET.
 - COORDINATE EXACT LOCATION OF SECURITY POWER JUNCTION BOX WITH SECURITY VENDOR AND ARCHITECT.
 - PROVIDE POWER TO DISHWASHER. LOCATE SWITCH ABOVE COUNTER IN ALIGNMENT WITH RECEPTABLES. COORDINATE WITH ARCHITECT.
 - PROVIDE TAMPER PROOF DEVICES FOR ALL RECEPTABLES WITHIN AREA INDICATED.
 - PROVIDE 480V, 30A, 3P, NEMA1 DISCONNECT FOR POWER TO FAN COIL. INDOOR UNITS ARE POWERED BY OUTDOOR UNITS. SEE ROOF PLAN.

(2) 3/4" CONDUITS INSTEAD OF 1-1/4"
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 AUSTIN, TX 78752

ELECTRICAL DEVICE SPECIFICATIONS

TVB-1 FLUSH MOUNTED TV BACKBOX CHIEF #PAC525 OR APPROVED EQUAL. INSTALL WITH RECEPTACLE AT TOP-LEFT AND DATA AT LOWER-RIGHT LOCATION. PROVIDE 1-1/4" CONDUIT WITH PULLSTRING TO 6" ABOVE CEILING TO ACCOMMODATE LOW VOLTAGE WIRING BY OTHERS.

FB-1 PROVIDE 10-GANG ON-GRADE FLOOR BOX, HUBBELL #CFB10055CR OR APPROVED EQUAL WITH (2) DUPLEX RECEPTABLES, (2) DATA DROPS, DEVICE MOUNTING PLATES, AND ALL REQUIRED ACCESSORIES. CONFIRM COVER FINISH WITH ARCHITECT. CONFIRM WITH CLIENT, FINAL HDMI APPURTENANCES FIT WITHIN FLOOR BOX PRIOR TO ORDERING.

(2) 3/4" INSTEAD OF 1-1/4"
 CONFIRM NO DATA DROPS IN RECORDING AND FILM STUDIOS

ELECTRICAL DEVICE SPECIFICATIONS

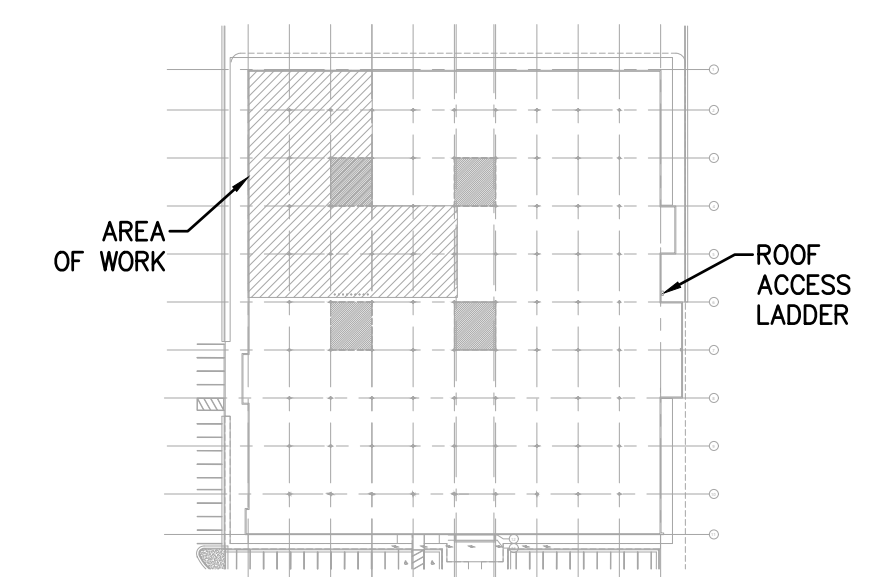
120V RECEPTABLES
 ALL RECEPTABLES SHALL BE 20 AMP RATED, DECORA STYLE. HUBBELL #DR20 OR APPROVED EQUAL BY COOPER, LEVITON OR PASS AND SEYMOR. GFCI RECEPTABLES SHALL BE HUBBELL 20A AUTOGUARD OR APPROVED EQUAL. COLOR BY ARCHITECT.

AUTOMATIC RECEPTACLE CONTROL (ECC REQUIREMENT): AUTOMATICALLY DE-ENERGIZED 50% OF RECEPTABLES IN OPEN OFFICE FURNITURE SYSTEMS. CONTROLLED VIA LIGHTING CONTROLS/SENSORS. COORDINATE MULTI-CIRCUIT WIRING THOROUGHLY WITH FURNITURE VENDOR.

ELECTRICAL DEVICE SPECIFICATIONS

DATA SYMBOL REPRESENTS A DATA BOX ROUGH-IN LOW ON WALL WITH 3/4" CONDUIT AND PULLSTRING TO 6" ABOVE CEILING OR 12" FROM STRUCTURE ABOVE IF NO CEILING WILL BE INSTALLED AT THE LOCATION. CONFERENCE ROOMS AND OPEN OFFICE AREAS REQUIRE LARGER CONDUIT AND ALTERNATE CONFIGURATIONS AS NOTED ON PLANS.

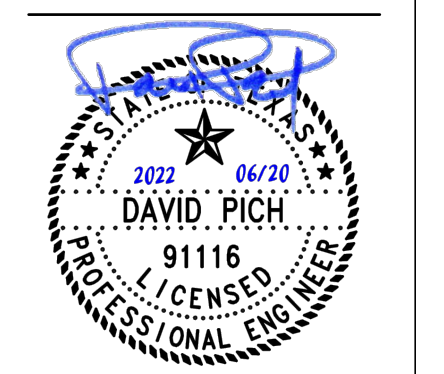
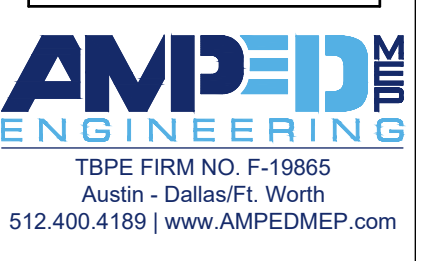
PROVIDE SINGLE GANG DATA BOX AND 3/4" W/PULLSTRING TO 6" ABOVE DROP CEILING SIDE OF WALL. NO "OPEN-TO-DECK" WALL SIDE.



KEY PLAN

1 SOUTH POWER PLAN
 SCALE: 1/8"=1'-0"

PROJECT: 21-043
BUILDING CONTACT:
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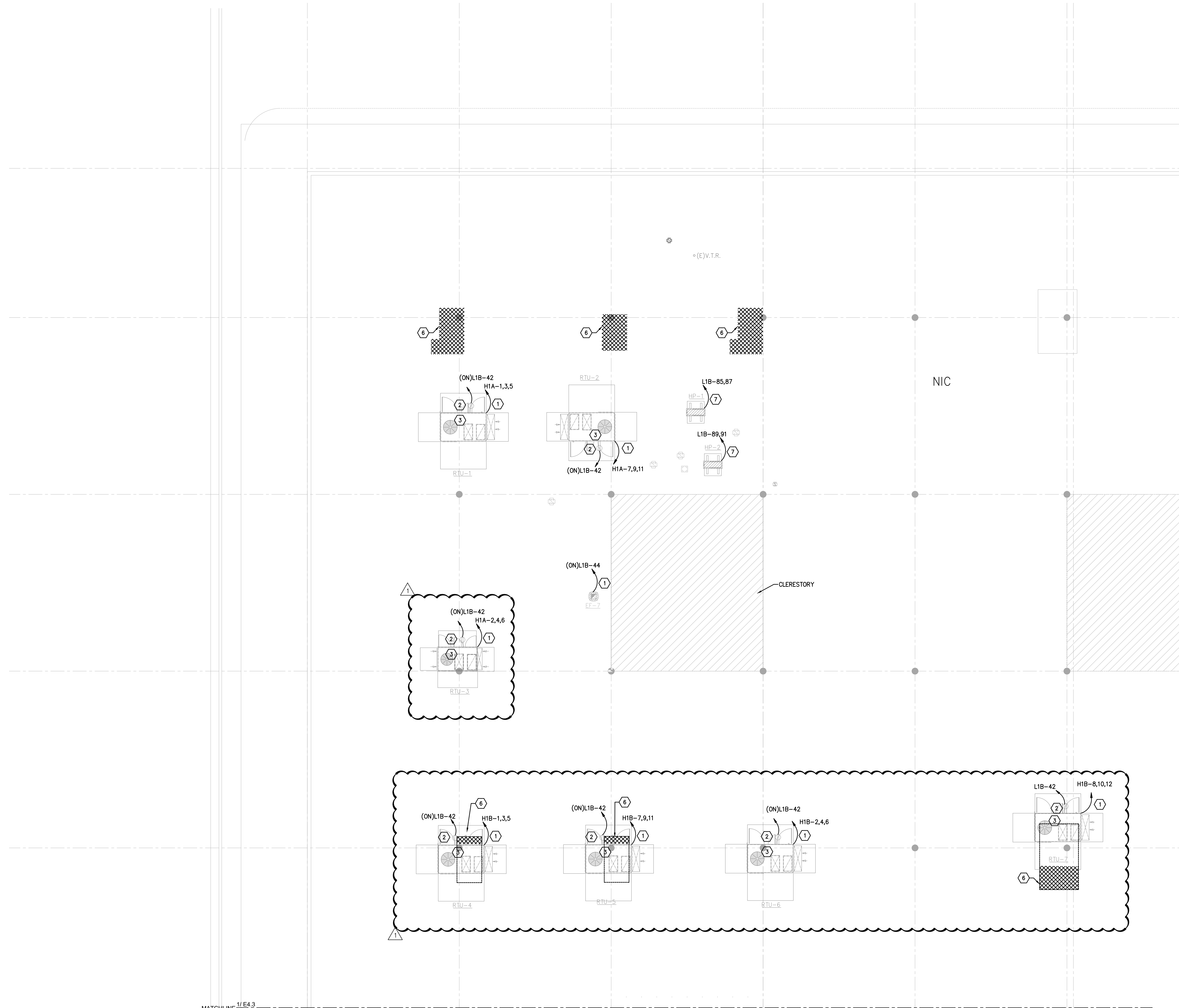
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SCALE: NOTED
DRAWN BY: AMPED

DATE	REVISION

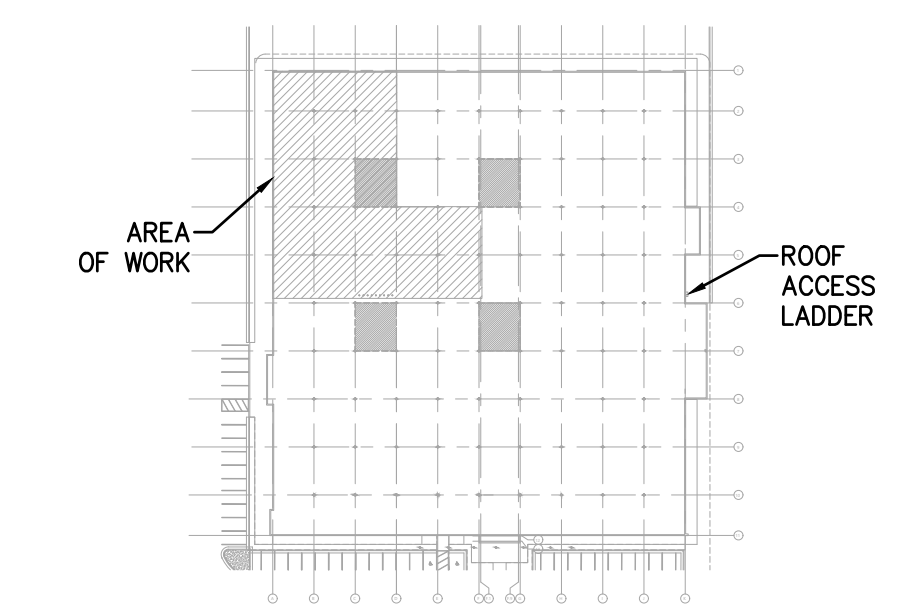
SOUTH POWER PLAN
E4.2
 PROJECT NO.
 21-043

KEYED NOTES

- 1 PROVIDE SINGLE POINT CONNECTION TO FACTORY MOUNTED NEMA 3R DISCONNECT SERVING MECHANICAL UNIT. PROVIDE POWER CONNECTION THROUGH ROOF CURB.
- 2 PROVIDE POWER TO FACTORY INSTALLED GFCI RECEPTACLE W/WEATHERPROOF COVER.
- 3 ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER TO MECHANICAL CONTRACTOR INSTALLED DUCT SMOKE DETECTOR. PROVIDE CONNECTION TO FIRE SYSTEM FOR RTU SHUTDOWN UPON ACTIVATION. USE 120V CIRCUIT LIB-38.
- 4 RE-CIRCUIT EXISTING EXHAUST FANS TO NEW TENANT PANEL. COORDINATE CONTROLS WITH MECHANICAL CONTRACTOR.
- 5 PROVIDE SINGLE POINT CONNECTION TO FACTORY DISCONNECT SERVING EXHAUST FAN. PROVIDE POWER CONNECTION THROUGH ROOF CURB.
- 6 DEMOLISH ALL ELECTRICAL DISCONNECTS, CONDUIT, AND/OR SUPPORTS SERVING INDICATED MECHANICAL EQUIPMENT ON ROOFTOP.
- 7 PROVIDE SINGLE POINT CONNECTION TO FACTORY MOUNTED NEMA 3R DISCONNECT SERVING MECHANICAL UNIT. PROVIDE POWER CONNECTION THROUGH ROOF CURB. INDOOR UNIT IS SERVED BY OUTDOOR UNIT.



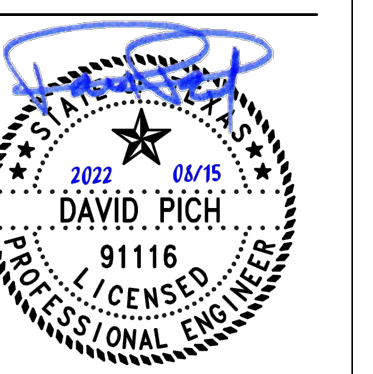
ROOF WARRANTY COORDINATION
 THIS BUILDING HAS A WARRANTY IN EFFECT ON THE ROOFING MATERIALS AND WORKMANSHIP. CONTACT BUILDING OWNER TO COORDINATE ALL ROOF WORK WITH ORIGINAL ROOFING CONTRACTOR THAT CARRIES THE WARRANTY.



KEY PLAN

MATCHLINE 1/E4.3 TO E4.4

1 NORTH POWER ROOF PLAN
 E4.3 SCALE: 1/8"=1'-0"



2006 East Cesar Chavez
 Austin, Texas 78702
 512-457-1332
 kdsoustin.com

DATE: 4-20-22
 SCALE: NOTED
 DRAWN BY: AMPED

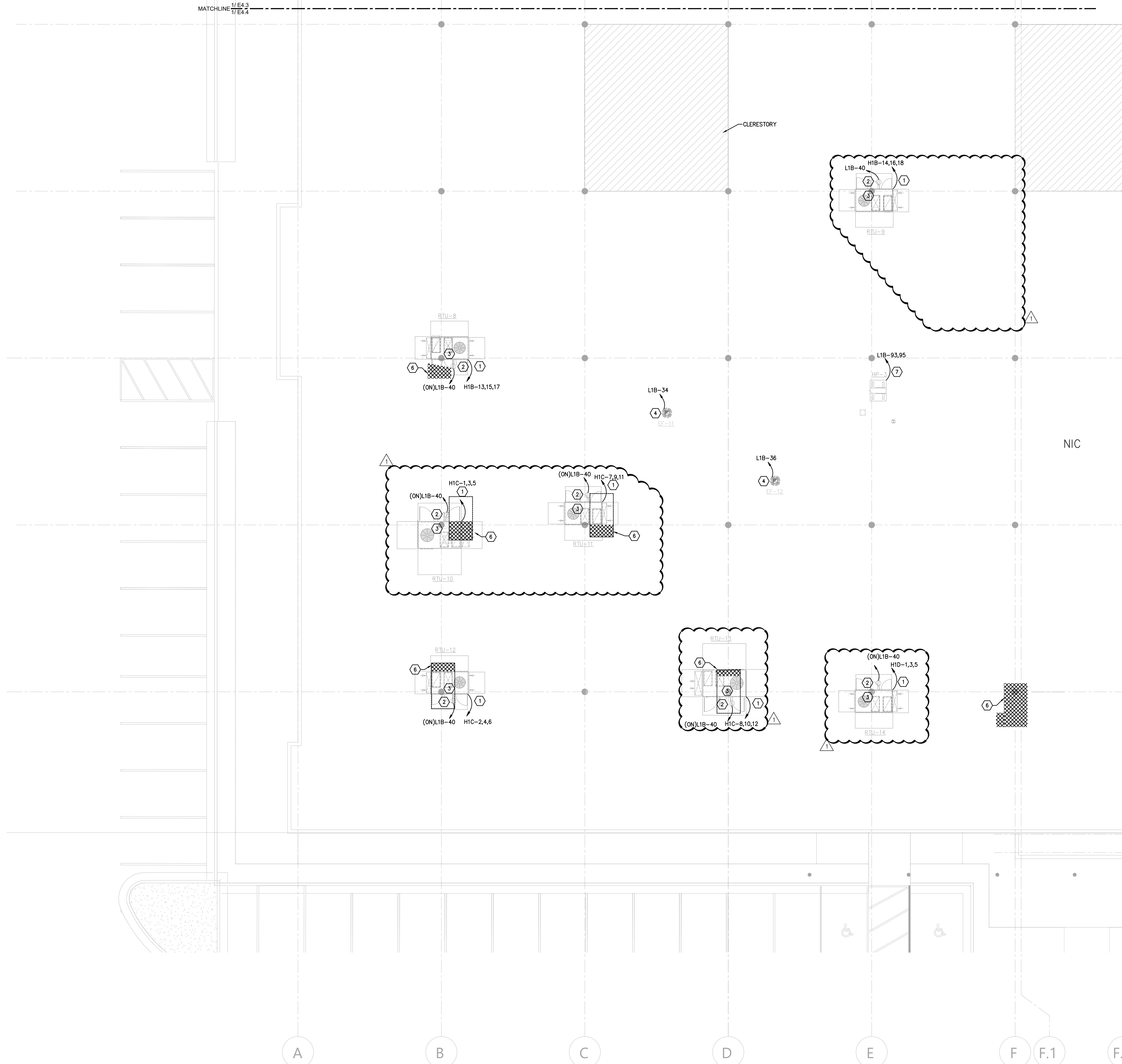
DATE	REVISION
08.15.22	1 Rev1 - HVAC Unit Rev

NORTH POWER
 ROOF PLAN

E4.3

PROJECT NO.
 21-043

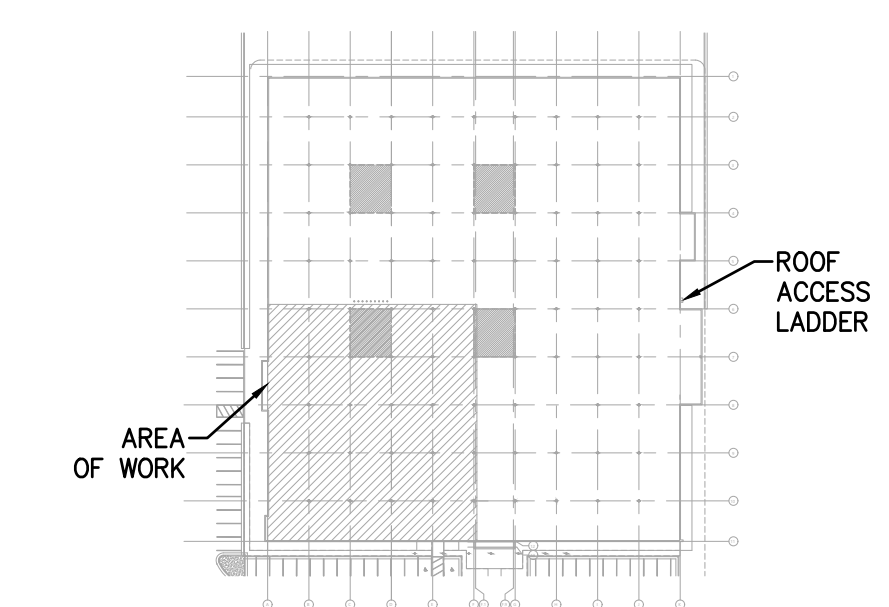
MATCHLINE 1/E4.3
1/E4.4



KEYED NOTES

- 1 PROVIDE SINGLE POINT CONNECTION TO FACTORY MOUNTED NEMA 3R DISCONNECT SERVING MECHANICAL UNIT. PROVIDE POWER CONNECTION THROUGH ROOF CURB.
- 2 PROVIDE POWER TO FACTORY INSTALLED GFCI RECEPTACLE W/WEATHERPROOF COVER.
- 3 ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER TO MECHANICAL CONTRACTOR INSTALLED DUCT SMOKE DETECTOR. PROVIDE CONNECTION TO FIRE SYSTEM FOR RTU SHUTDOWN UPON ACTIVATION. USE 120V CIRCUIT LIB-38.
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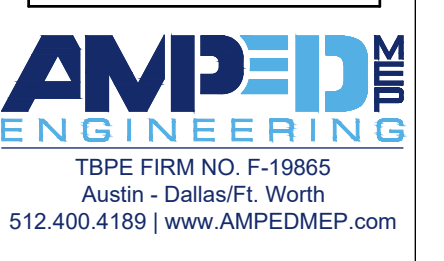
ROOF WARRANTY COORDINATION
THIS BUILDING HAS A WARRANTY IN EFFECT ON THE ROOFING MATERIALS AND WORKMANSHIP. CONTACT BUILDING OWNER TO COORDINATE ALL ROOF WORK WITH ORIGINAL ROOFING CONTRACTOR THAT CARRIES THE WARRANTY.



KEY PLAN

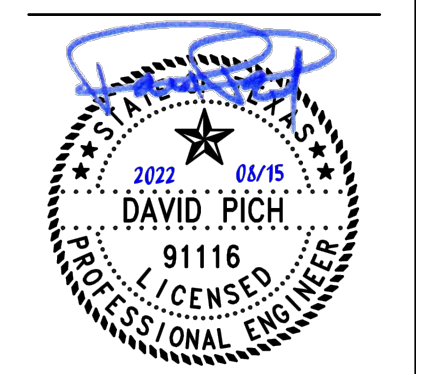
1 SOUTH POWER ROOF PLAN
E4.4 SCALE: 1/8"=1'-0"

PROJECT: 21-085
BUILDING CONTACT
AQUILA
JIM CLARK
512.684.3800



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AUSTIN STONE
6505 AIRPORT BLVD., SUITE 110
AUSTIN, TX 78752



KDS
de stijl interiors
KAUFFE/DE STIJL, INC.
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DATE: 4-20-22
SCALE: NOTED
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DATE	REVISION
08.15.22	1 Rev1 - HVAC Unit Rev

SOUTH POWER
ROOF PLAN

E4.4
PROJECT NO.
21-043

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: AUSTIN STONE LIGHTING
 Project Type: Alteration

Construction Site:
 6505 AIRPORT BOULEVARD
 AUSTIN, Texas 78752

Owner/Agent:

Designer/Contractor:
 DAVID PICH
 AMPED MEP
 9600 ESCARPMENT BLVD STE 745
 PMB 07
 AUSTIN, Texas 78749
 512-400-4189
 david@AMPEDMEP.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Office	35290	0.64	22586
Total Allowed Watts =			22586

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture	D Wattage	E (C X D)
Office (35290 sq.ft.)				
LED: TYPE A: Other:	1	340	31	10540
LED: TYPE B: Other:	1	114	12	1334
LED: TYPE C: Other:	1	47	4	193
LED: TYPE D: Other:	1	11	163	1793
LED: TYPE E: Other:	1	29	11	319
LED: TYPE F: Other:	1	11	56	616
LED: TYPE G: Other:	1	86	7	585
LED: TYPE H: Other:	1	6	6	38
LED: TYPE I: Other:	1	3	6	19
LED: TYPE J: Other:	1	15	38	567
LED: TYPE K1-S: Other:	1	8	18	144
LED: TYPE L: Other:	1	5	6	30
LED: TYPE M1: Other:	1	6	64	384
LED: TYPE M2: Other:	1	9	64	576
LED: TYPE N: Other:	1	4	33	132
LED: TYPE O: Other:	1	50	18	975
LED: TYPE P: Other:	1	4	10	42
LED: TYPE Q: Other:	1	4	6	25
LED: TYPE R: Other:	1	8	6	50
LED: TYPE S: Other:	1	10	11	111

Project Title: AUSTIN STONE LIGHTING
 Data filename:

Report date: 06/20/22
 Page 1 of 6

Total Proposed Watts = 18373

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

DAVID PICH
 Name - Title

Signature

06.20.22
 Date

Project Title: AUSTIN STONE LIGHTING
 Data filename:

Report date: 06/20/22
 Page 2 of 6

LIGHTING CONTROL PERFORMANCE SPECIFICATION

CONTROL SCHEME	SPACE TYPES	UNSWITCHED	SWITCH CONTROLS	AUTO-ON 100%	AUTO-ON TO 90%	MANUAL ON	DIMMING	SCENE CONTROL	CEILING SENSOR	WALL SENSOR	DAYLIGHT HARVESTING	TIME TO DIM	UNOCCUPIED DIM LEVEL	PLUG LOAD CONTROL	TIME TO OFF (MINUTES)	PROGRAMMING	NOTES
A	ENCLOSED OFFICE		ON/OFF, DIM UP, DIM DOWN		YES		YES		YES					YES OFFICE	10	DEFAULT "AUTO-ON" LIGHT LEVELS: 50%	PROVIDE QTY OF CEILING MOUNTED OCCUPANCY SENSORS REQUIRED FOR FULL COVERAGE.
B	HUDDLE		ON/OFF, DIM UP, DIM DOWN		YES		YES			YES					10		
C	OPEN OFFICE		ON/OFF, 50%, 100%		YES			YES	YES					YES	10	PLUG LOAD CONTROL OF ZONE INDICATED. COORDINATE WITH FURNITURE PROVIDER	PROVIDE FIXTURE ZONING ON 600sf MAXIMUM BASIS. PROVIDE QTY OF CEILING SENSORS REQUIRED FOR FULL COVERAGE.
D	CONFERENCE ROOMS		ON/OFF, DIM UP, DIM DOWN (PER ZONE)			YES	YES		YES						10		PROVIDE QTY OF CEILING MOUNTED OCCUPANCY SENSORS REQUIRED FOR FULL COVERAGE.
E	STORAGE/MIL/WORK/GYM		ON/OFF			YES			YES						5		PROVIDE QTY OF CEILING MOUNTED OCCUPANCY SENSORS REQUIRED FOR FULL COVERAGE.
F	COMMON RESTROOM		ON/OFF	YES					YES			18	30%		20		SAFETY EXEMPTION INTERLOCK EXHAUST FAN WITH LIGHTING CONTROLS
G	CORRIDOR		ON/OFF	YES					YES						20	COORDINATE ZONE CONTROL WITH LOWER CASE LETTER INDICATED ON LIGHTING FLOORPLANS	PROVIDE QTY OF CEILING MOUNTED OCCUPANCY SENSORS REQUIRED FOR FULL COVERAGE.
H	ENTRY/LOBBY/CORRIDOR		ON/OFF, DIM UP, DIM DOWN (PER ZONE) WHERE SWITCHING SHOWN	YES*			YES		YES		YES				20	"AUTO-ON" TO LAST SETTING PROVIDE DIMMING FOR SWITCHES INDICATED.	SAFETY EXEMPTION: AUTO ON
J	SHOWER RESTROOM		ON/OFF			YES									NA		SAFETY EXEMPTION: AUTO ON INTERLOCK EXHAUST FAN WITH LIGHT SWITCH
K	STUDIOS		ON/OFF, DIM UP, DIM DOWN (PER ZONE)			YES	YES								NA		SAFETY EXEMPTION: PROVIDE DIMMING WITHOUT OCC. CONTROLS
L	LIBRARY/BREAK ROOM		ON/OFF, DIM UP, DIM DOWN (PER ZONE)		YES		YES		YES		YES				10	SET DAYLIGHT HARVESTING CONTROLS TO 70 FC	PROVIDE QTY OF CEILING MOUNTED OCCUPANCY SENSORS REQUIRED FOR FULL COVERAGE.
M	PHONE ROOM		ON/OFF			YES				YES					5		
O	THERAPY/GAMING		ON/OFF, DIM UP, DIM DOWN		YES		YES		YES						10		PROVIDE QTY OF CEILING MOUNTED OCCUPANCY SENSORS REQUIRED FOR FULL COVERAGE.
P	COMMON RESTROOM		ON/OFF	YES					YES			18	30%		20		SAFETY EXEMPTION NO INTERLOCK
X	ELEC/MECH/IDF ROOMS		ON/OFF			YES									NA		SAFETY EXEMPTION: PROVIDE LINE VOLTAGE SWITCHING FOR SPACE INDICATED.

GENERAL NOTES:
 1. PROVIDE DUAL TECHNOLOGY FOR ALL LIGHTING CONTROL SENSORS.

LIGHT FIXTURE SCHEDULE

LABEL	Manufacturer	Catalog Number	Description	Mounting	Lamp	Fixture Wattage	Voltage	Notes
A	LITHONIA	2BLT2-40L-SDSM-GZ10-LP835	2' X 2' TROFFER, 4000 LUMEN, 3500K, SQUARE SMOOTH DIFFUSER, MVOLT, 0-10V 10% DIMMING	LAY-IN	LED	31	MVOLT	
B	ACUITY	LC4C-13LM-35K-AMVOLT-XX-G4-80CRI-ZT-HW-COLOR-CSTEM-48IN-COLOR	4" CYLINDRICAL DOWNLIGHT LED, 3500K, 0-10V 10% DIMMING	SUSPENDED CABLE @48" FROM DECK	LED	11.7	277	
C	VODE	707-SL-XX-C-0-XX-AE-2-0-Z-LO-409-A2-0-AL	TRACK LIGHT, 4000K, 418 WLF, 0-10V 1% DIMMING	TRACK	LED	4.1 WLF	120	
D	ELLIPSTAR	S104-M336-20X-M-V0-Q-940-EL	INDIRECT LINEAR LED, 4000K, 18332 LUMENS, 0-10V 0.1% DIMMING	SURFACE MOUNTED	LED	163	277	
E	SPECTRUM GIANT	SP4ES-11L-40K-DX-AR4ES-MM-MF	4" SQUARE DOWNLIGHT, 1100 LUMENS, 4000K, 0-10V 1% DIMMING	RECESSED	LED	11	277	
F	FENELITE	HP2-WM-ID-4-H-H-940-ASY-R-F-96LG-277-DC-FC-10%	2" WALL MOUNT DIRECT / INDIRECT, 747LMFT-1, 612LMFT-D, 4000K, 90 CRI, 0-10V 10% DIMMING	SURFACE	LED	56	277	
G	FENELITE	HPXP-ID-XX-S-S-940-WSO-F-277-DC-FC-1%-FA50-XX-FE-SW	2.5" LINEAR SUSPENDED DIRECT / INDIRECT, 664 LUMENS/FT, 4000K, 90 CRI, 0-10V 1% DIMMING	SUSPENDED @7'-0" AFF	LED	6.8W/FT	277	
H	ALORA HALSTON	PD470108	PENDANT WHITE AND GOLD FINISH	PENDANT	LED	6.3	277	
I	GUBI	RONDE PENDANT, 750 LUMEN, 2700K	PENDANTS OVER ISLAND - BLACK FINISH	SUSPENDED	LED	6.3	120	
J	MARK ARCHITECTURAL	S1LD 4FT 1000LMF 35K STD	SLOT 1 DIRECT, 1000 LUMENS/FOOT, 3500K, 90 CRI, 1% DIMMING	SUSPENDED	LED	37.8	277	
K1	SPECTRUM GIANT	GPRF1200GV-27L-40K-DS10X-RDC5-XX	12" GLOBES MULTIPLE, 2700 LUMENS, 4000K, 0-10V 10% DIMMING	SUSPENDED	LED	18	277	
K2	SPECTRUM GIANT	GPRF1600GV-27L-40K-DS10X-RDC5-XX	16" GLOBES MULTIPLE, 2700 LUMENS, 4000K, 0-10V 10% DIMMING	SUSPENDED	LED	18	277	
K3	SPECTRUM GIANT	GPRF2000GV-27L-40K-DS10X-RDC5-XX	20" GLOBES MULTIPLE, 2700 LUMENS, 4000K, 0-10V 10% DIMMING	SUSPENDED	LED	18	277	
K4	SPECTRUM GIANT	GPRF2400GV-27L-40K-DS10X-RDC5-XX	24" GLOBES MULTIPLE, 2700 LUMENS, 4000K, 0-10V 10% DIMMING	SUSPENDED	LED	18	277	
K5	SPECTRUM GIANT	GPRF3600GV-27L-40K-DS10X-RDC5-XX	36" GLOBES MULTIPLE, 2700 LUMENS, 4000K, 0-10V 10% DIMMING	SUSPENDED	LED	18	277	
L	ALORA KENJI	KENJI CH52924, E26	PENDANT, E26 LED LAMP 3500K, 600 LUMENS	SUSPENDED	LED	6	120	
M1	LITHONIA	CLX L48 3000LM SEF FDL MVOLT 35K 90CRI CLXRW48	4" LINEAR LED, 3500K, 0.1% DIMMING	MOUNTED TO DECK BETWEEN RISERS	LED	64	277	
M2	LITHONIA	CLX L48 3000LM SEF FDL MVOLT 50K 90CRI CLXRW48	4" LINEAR LED, 5000K, 0.1% DIMMING	MOUNTED TO DECK BETWEEN RISERS	LED	64	277	
N	LITHONIA	2VTL2-48L-ADSM-GZ10-LP940	2' X 2' LAY-IN	LAY-IN	LED	33	277	
O	LITHONIA	LDW 3515 L04 WR	4" DOWNLIGHT, 3500K, DIMMABLE	RECESSED ACT	LED	17.5	277	
P	ESTIMATOR	SP4ES-20L-40K-D1-AR4ES-MM-MF	4" ROUND DOWNLIGHT DIM TO 10%, BLACK FINISH AND BLACK DIFFUSER	RECESSED GYP	LED	10.5	277	
Q	ALORA OSCAR	OSCAR WV550224	WALL SCONCE INSTALLED ABOVE BANQUETTES - BLACK FINISH, E26 LED LAMP 3500K, 505 LUMENS	SURFACE	LED	6.3	277	BACKBOX
R	ALORA ASTRID	ASTRID WV916501	WALL SCONCE INSTALLED ABOVE BOOKSHELVES - BLACK FINISH, E26 LED LAMP 3500K, 505 LUMENS	SURFACE	LED	6.3	277	BACKBOX
S	FLUXWERX	FD1x4835x24(F1/F2/E1/E2/E3/E4)M	PROFILE SPOKE 4- BLACK FINISH	VARYING HEIGHTS - SUSPENDED FROM DECK	LED	11.08	277	
X1	LITHONIA	EDG 1 GMR 5D	EXIT SIGN, 90 MINUTE BATTERY BACKUP SELF DIAGNOSTICS, MIRRORRED, 1-SIDE	RECESSED	LED	4.5	277	
X2	LITHONIA	EDG 2 GMR 5D	EXIT SIGN, 90 MINUTE BATTERY BACKUP SELF DIAGNOSTICS, MIRRORRED, 2-SIDED	RECESSED	LED	4.5	277	

PROJECT: 21-085
 BUILDING CONTACT
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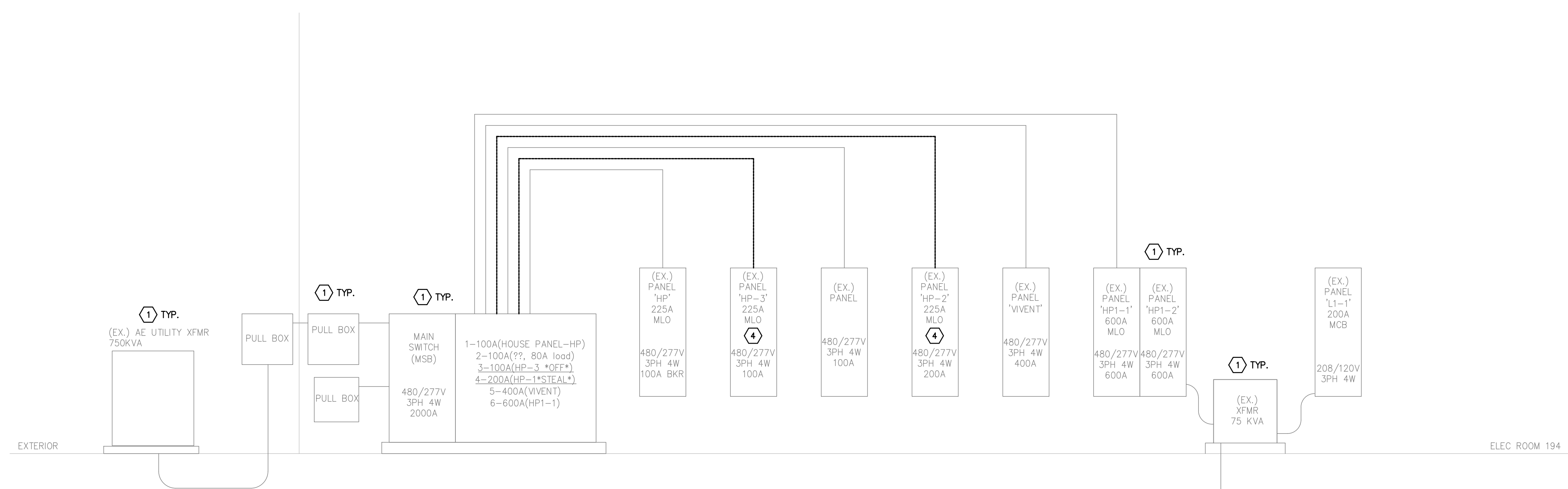
DATE: 4.20.22
 SCALE: NOTED
 DRAWN BY: AMPED

DATE	REVISION

LIGHTING SCHEDULES AND COMCHECK

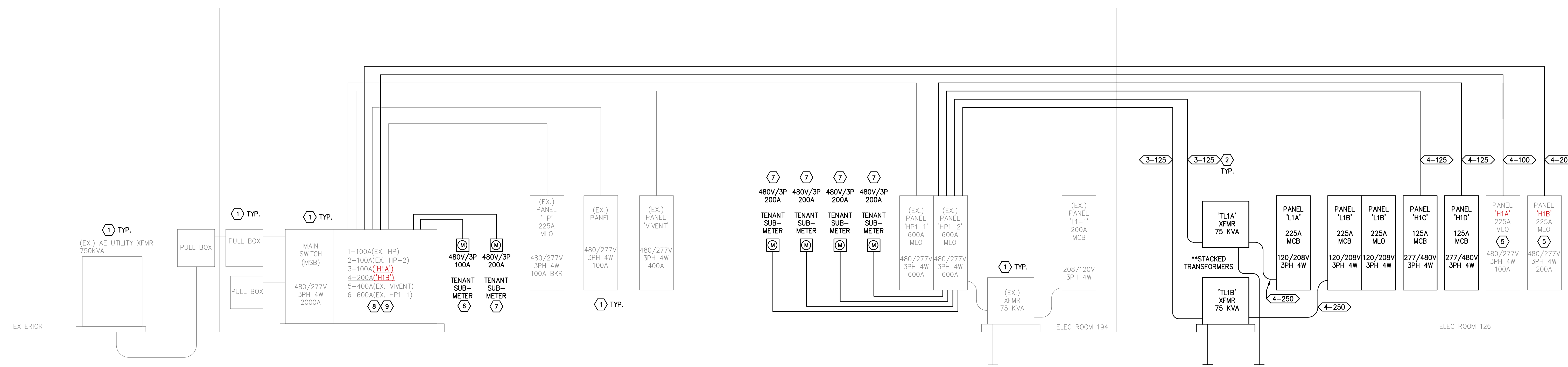
E5.0

PROJECT NO.
 21-043



1 ONE-LINE DIAGRAM-DEMOLITION
 ES.1 SCALE: NONE

AVAILABLE FAULT CURRENT CALCULATIONS (NEC 110.24)
 ELECTRICAL SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. A PERMANENT WEATHERPROOF LABEL SHALL INCLUDE THE DATE OF THE CALCULATION WAS PERFORMED AND THE MAXIMUM AVAILABLE FAULT CURRENT OF THE BUILDING POWER SYSTEM.
 THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE MAXIMUM AVAILABLE FAULT CURRENT CALCULATIONS TO THE ENGINEER OF RECORD IN ELECTRONIC SUBMITTAL FORMAT. THE ENGINEER WILL REVIEW THE CALCULATIONS, AND IF ACCEPTABLE, WILL PROVIDE A DOCUMENT STATING THE DATE THE CALCULATIONS WERE COMPLETED AND THE FINAL DETERMINED MAXIMUM AVAILABLE FAULT CURRENT.



2 ONE-LINE DIAGRAM-RENOVATION
 ES.1 SCALE: NONE

EX. MAIN DISTRIBUTION PANEL 'MSB'

CKT	DESCRIPTION	FRAME	TRIP	FEEDER
1	EX HP - HOUSE PANEL	100A	100A	-
2	EX HP - HOUSE PANEL	100A	100A	-
3	H1A' (RELOCATED, RE-NAMED)	100A	100A	RE: ES.1
4	H1B' (RELOCATED, RE-NAMED)	200A	200A	RE: ES.1
5	VIVENT TENANT	400A	400A	-
6	HP1-1	600A	600A	-

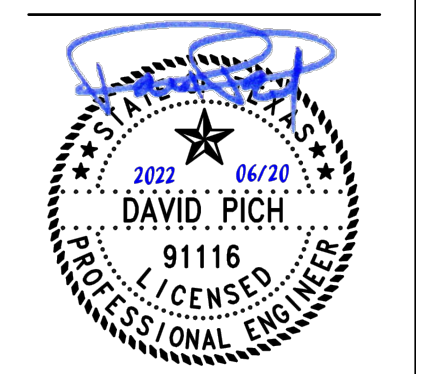
MAIN TYPE:	MCB
VOLTAGE:	480 3PH,4W
MAIN SIZE:	2000 A
AIC RATING:	
MOUNTING:	PAD MOUNTED

LOADING OF EXISTING PANEL:
 1. NEC 220.87 DETERMINING EXISTING LOADS, WAS USED TO CREATE THE PANEL SCHEDULE. 125% OF EXISTING LOADS PLUS THE NEW LOADS TO DETERMINE EXISTING PANEL LOADING.
 2. THE SUM OF LOADS ON THE EXISTING PANELS:
MAIN DISTRIBUTION 'MSB'
 TOTAL EXISTING AND NEW LOADS ARE LESS THAN THE BREAKER RATING.
 #1-HP 80.00A
 #2-HP-2 80.00A
 #3-H1A 65.96A
 #4-H1B 151.92A
 #5-VIVENT 320.00A
 #6-HP1 355.52A
 TOTAL 1082A
 1082A IS LESS THAN 2000A MAIN IN MSB

FEEDER SCHEDULE

3 CONDUCTORS WITH GROUND			4 CONDUCTORS WITH GROUND			GROUNDING CONDUCTOR				
LABEL	AMPS	CONDUCTOR(S)	CONDUIT	LABEL	AMPS	CONDUCTOR(S)	CONDUIT	LABEL	CONDUCTOR(S)	CONDUIT
3-20	20	3#12, 1#12G	3/4"	4-20	20	4#12, 1#12G	3/4"	G-20	1#12	3/4"
3-30	30	3#10, 1#10G	3/4"	4-30	30	4#10, 1#10G	3/4"	G-30	1#10	3/4"
3-40	40	3#8, 1#10G	3/4"	4-40	40	4#8, 1#10G	3/4"	G-40	1#10	3/4"
3-50	50	3#8, 1#10G	3/4"	4-50	50	4#8, 1#10G	3/4"	G-50	1#10	3/4"
3-60	60	3#8, 1#10G	1"	4-60	60	4#8, 1#10G	1"	G-60	1#10	3/4"
3-70	70	3#8, 1#8G	1"	4-70	70	4#8, 1#8G	1-1/4"	G-70	1#8	3/4"
3-80	80	3#8, 1#8G	1"	4-80	80	4#8, 1#8G	1-1/4"	G-80	1#8	3/4"
3-100	100	3#8, 1#8G	1"	4-100	100	4#8, 1#8G	1-1/2"	G-100	1#8	3/4"
3-125	125	3#1, 1#8G	1-1/2"	4-125	125	4#1, 1#8G	1-1/2"	G-125	1#8	3/4"
3-150	150	3#1/0, 1#8G	1-1/2"	4-150	150	4#1/0, 1#8G	2"	G-150	1#8	3/4"
3-175	175	3#2/0, 1#8G	1-1/2"	4-175	175	4#2/0, 1#8G	2"	G-175	1#8	3/4"
3-200	200	3#3/0, 1#8G	2"	4-200	200	4#3/0, 1#8G	2-1/2"	G-200	1#4	3/4"
3-225	225	3#4/0, 1#8G	2-1/2"	4-225	225	4#4/0, 1#8G	2-1/2"	G-225	1#2	3/4"
3-250	250	3#250KCMLL, 1#4G	2-1/2"	4-250	250	4#250KCMLL, 1#4G	3"	G-250	1#2	3/4"
3-300	300	3#250KCMLL, 1#5G	3"	4-300	300	4#250KCMLL, 1#5G	3"	G-300	1#2	3/4"
3-350	350	(2 SETS) 3#3/0, 1#5G	2"	4-350	350	(2 SETS) 4#3/0, 1#5G	2"	G-350	1#10	1"
3-400	400	(2 SETS) 3#3/0, 1#5G	2"	4-400	400	(2 SETS) 4#3/0, 1#5G	2"	G-400	1#10	1"
3-500	500	(2 SETS) 3#250KCMLL, 1#2G	2-1/2"	4-500	500	(2 SETS) 4#250KCMLL, 1#2G	3"	G-500	1#2/0	1"
3-600	600	(2 SETS) 3#250KCMLL, 1#1G	3"	4-600	600	(2 SETS) 4#250KCMLL, 1#1G	3"	G-600	1#2/0	1"
3-800	800	(3 SETS) 3#500KCMLL, 1#10G	2-1/2"	4-800	800	(3 SETS) 4#500KCMLL, 1#10G	2"	G-800	1#10	1"
3-1000	1000	(3 SETS) 3#400KCMLL, 1#2/0G	3"	4-1000	1000	(3 SETS) 4#400KCMLL, 1#2/0G	3-1/2"	G-1000	1#3/0	1"
3-1200	1200	(4 SETS) 3#350KCMLL, 1#3/0G	3"	4-1200	1200	(4 SETS) 4#350KCMLL, 1#3/0G	3-1/2"	G-1200	1#3/0	1"
3-1600	1600	(5 SETS) 3#400KCMLL, 1#4/0G	3"	4-1600	1600	(5 SETS) 4#400KCMLL, 1#4/0G	3"	G-1600	1#3/0	1"
3-2000	2000	(8 SETS) 3#400KCMLL, 1#250KCMLL G.	3"	4-2000	2000	(8 SETS) 4#400KCMLL, 1#250KCMLL G.	3"	G-2000	1#3/0	1"
3-2500	2500	(7 SETS) 3#500KCMLL, 1#250KCMLL G.	3-1/2"	4-2500	2500	(7 SETS) 4#500KCMLL, 1#250KCMLL G.	3-1/2"	G-2500	1#3/0	1"
3-3000	3000	(8 SETS) 3#500KCMLL, 1#400KCMLL G.	3-1/2"	4-3000	3000	(8 SETS) 4#500KCMLL, 1#400KCMLL G.	3-1/2"	G-3000	1#3/0	1"
3-3500	3500	(10 SETS) 3#500KCMLL, 1#500KCMLL G.	3-1/2"	4-3500	3500	(10 SETS) 4#500KCMLL, 1#500KCMLL G.	3-1/2"	G-3500	1#3/0	1"
3-4000	4000	(11 SETS) 3#500KCMLL, 1#500KCMLL G.	3-1/2"	4-4000	4000	(11 SETS) 4#500KCMLL, 1#500KCMLL G.	3-1/2"	G-4000	1#3/0	1"

NOTE: PROVIDE CONDUIT, AT SIZE LISTED, FOR EACH SET OF CONDUCTORS.



RELOCATED PANELBOARD SCHEDULE													PANEL H1A												
MAIN SIZE: 225A MAIN TYPE: MLO KAIC RATING: 18						FROM: MSB-3, 100A/3P						NEMA 1 MOUNTING: SURFACE VOLTAGE: 480 /277V 3PH, 4W						(Formerly 'HP-3'; ex. 100A/3P from MSB)							
DESCRIPTION	WIRE SIZE	AMPS POLE	LTG	RCPT	LOAD (KVA)	MTR	HEAT	KITCH	MISC	CKT NO	PHASE	CKT NO	MISC	KITCH	HEAT	MTR	RCPT	LTG	AMPS POLE	WIRE SIZE	DESCRIPTION				
RTU-1	#10	25/3			4.99					1	A	2			4.99				25/3	#10	RTU-3				
					4.99					3	B	4			4.99										
					4.99					5	C	6			4.99										
RTU-2	#8	40/3			8.03					7	A	8			8.03				20/3	-	EX SPARE				
					8.03					9	B	10			8.03										
					8.03					11	C	12			8.03										
EX SPARE	-	20/3								13	A	14							20/3	-	EX SPARE				
										15	B	16													
										17	C	18													
EX SPARE	-	25/3								19	A	20							20/3	-	EX SPARE				
										21	B	22													
										23	C	24													
EX SPARE	-	20/3								25	A	26							20/3	-	EX SPARE				
										27	B	28													
										29	C	30													
EX SPARE	-	15/3								31	A	32													
										33	B	34													
										35	C	36													
SPACE	-	-								37	A	38													
SPACE	-	-								39	B	40													
SPACE	-	-								41	C	42													
TOTALS			0.00	0.00	39.05	0.00	0.00	0.00	0.00	41			0.00	0.00	0.00	14.96	0.00	0.00				TOTALS			

RELOCATED PANELBOARD SCHEDULE													PANEL H1B												
MAIN SIZE: 250A MAIN TYPE: MLO KAIC RATING: 18						FROM: MSB-4, 200A/3P						NEMA 1 MOUNTING: SURFACE VOLTAGE: 480 /277V 3PH, 4W						(Formerly 'HP-2'; ex. 200A/3P from MSB)							
DESCRIPTION	WIRE SIZE	AMPS POLE	LTG	RCPT	LOAD (KVA)	MTR	HEAT	KITCH	MISC	CKT NO	PHASE	CKT NO	MISC	KITCH	HEAT	MTR	RCPT	LTG	AMPS POLE	WIRE SIZE	DESCRIPTION				
RTU-4	#6	40/3			8.03					1	A	2			8.03				40/3	#6	RTU-6				
					8.03					3	B	4			8.03										
					8.03					5	C	6			8.03										
RTU-5	#6	40/3			8.03					7	A	8			8.03				40/3	#6	RTU-7				
					8.03					9	B	10			8.03										
					8.03					11	C	12			8.03										
RTU-8	#10	25/3			4.99					13	A	14			4.99				25/3	#10	RTU-9				
					4.99					15	B	16			4.99										
					4.99					17	C	18			4.99										
EX SPARE	-	30/3								19	A	20							30/3	-	EX SPARE				
										21	B	22													
										23	C	24													
EX SPARE	-	20/3								25	A	26							30/3	-	EX SPARE				
										27	B	28													
										29	C	30													
EX SPARE	-	30/3								31	A	32							25/3	-	EX SPARE				
										33	B	34													
										35	C	36													
EX SPARE	-	30/3								37	A	38							30/3	-	EX SPARE				
										39	B	40													
										41	C	42													
TOTALS			0.00	0.00	63.15	0.00	0.00	0.00	0.00	41			0.00	0.00	0.00	63.15	0.00	0.00				TOTALS			

NEW PANELBOARD SCHEDULE													PANEL H1C												
MAIN SIZE: 125A MAIN TYPE: MCB KAIC RATING: 18						FROM: HP-1,2, 125A/3P						NEMA 1 MOUNTING: SURFACE VOLTAGE: 480 /277V 3PH, 4W													
DESCRIPTION	WIRE SIZE	AMPS POLE	LTG	RCPT	LOAD (KVA)	MTR	HEAT	KITCH	MISC	CKT NO	PHASE	CKT NO	MISC	KITCH	HEAT	MTR	RCPT	LTG	AMPS POLE	WIRE SIZE	DESCRIPTION				
RTU-10	#6	40/3			8.03					1	A	2			8.03				40/3	#6	RTU-12				
					8.03					3	B	4			8.03										
					8.03					5	C	6			8.03										
RTU-11	#10	25/3			4.99					7	A	8			4.99				25/3	#10	RTU-13				
					4.99					9	B	10			4.99										
					4.99					11	C	12			4.99										
SPACE	-	-								13	A	14													
SPACE	-	-								15	B	16													
SPACE	-	-								17	C	18													
SPACE	-	-								19	A	20													
SPACE	-	-								21	B	22													
SPACE	-	-								23	C	24													
SPACE	-	-								25	A	26													
SPACE	-	-								27	B	28													
SPACE	-	-								29	C	30													
SPACE	-	-								31	A	32													
SPACE	-	-								33	B	34													
SPACE	-	-								35	C	36													
SPACE	-	-								37	A	38													
SPACE	-	-								39	B	40													
SPACE	-	-								41	C	42													
TOTALS			0.00	0.00	39.07	0.00	0.00	0.00	0.00	41			0.00	0.00	0.00	39.07	0.00	0.00				TOTALS			

NEW PANELBOARD SCHEDULE													PANEL H1D												
MAIN SIZE: 125A MAIN TYPE: MCB KAIC RATING: 18						FROM: HP-1,2, 125A/3P						NEMA 1 MOUNTING: SURFACE VOLTAGE: 480 /277V 3PH, 4W													
DESCRIPTION	WIRE SIZE	AMPS POLE	LTG	RCPT	LOAD (KVA)	MTR	HEAT	KITCH	MISC	CKT NO	PHASE	CKT NO	MISC	KITCH	HEAT	MTR	RCPT	LTG	AMPS POLE	WIRE SIZE	DESCRIPTION				
RTU-14	#10	25/3			4.99					1	A	2	3.00						20/1	#12	EW-H1				
					4.99					3	B	4	3.00						20/1	#12	EW-H2				
					4.99					5	C	6	3.00						20/1	#12	EW-H3				
LIGHTING	#12	20/1			2.70					7	A	8	3.00						20/1	#12	EW-H4				
LIGHTING	#12	20/1			2.70					9	B	10	4.50						25/1	#10	EW-H5				
LIGHTING	#12	20/1			2.70																				

NEW PANELBOARD SCHEDULE														PANEL L1A													
MAIN SIZE: MAIN TYPE: KAIC RATING:		225 MCB 22		NEMA 1 MOUNTING: SURFACE VOLTAGE: 208 /120V 3PH,4W												NEMA 1 MOUNTING: SURFACE VOLTAGE: 208 /120V 3PH,4W											
DESCRIPTION	WIRE SIZE	AMPS POLE	LOAD (KVA)						CKT NO	PHASE			CKT NO	LOAD (KVA)						AMPS POLE	WIRE SIZE	DESCRIPTION					
			LTG	RCPT	MTR	HEAT	KITCH	MISC		MISC	KITCH	HEAT		MTR	RCPT	LTG											
FURNITURE FEED	#12	*20/1		1.50					1	A			2					1.00	20/1	#12	RCPTS-SWITCHED-230						
FURNITURE FEED	#12	*20/1		1.50					3	B			4					1.00	20/1	#12	RCPTS-SWITCHED-230						
OFFICE 188	#12	20/1		1.26					5		C		6					1.00	20/1	#12	RCPTS-SWITCHED-230						
FURNITURE FEED	#12	*20/1		1.20					7	A			8					0.36	20/1	#12	QUAD-230						
FURNITURE FEED	#12	*20/1		1.20					9	B			10					1.00	20/1	#12	RCPTS-SWITCHED-230						
OFFICE 189	#12	20/1		1.26					11		C		12					1.20	20/1	#12	RCPTS-230						
FURNITURE FEED	#12	*20/1		1.20					13	A			14					0.72	20/1	#12	RCPTS-230						
FURNITURE FEED	#12	*20/1		1.20					15	B			16					0.90	20/1	#12	RCPTS-230						
OFFICE 180	#12	20/1		1.44					17		C		18					0.36	20/1	#12	RCPTS-SWITCHED-224						
FURNITURE FEED	#12	*20/1		1.20					19	A			20					1.00	20/1	#12	RCPTS-SWITCHED-224						
FURNITURE FEED	#12	*20/1		1.20					21	B			22					1.00	20/1	#12	RCPTS-SWITCHED-224						
OFFICE 193	#12	20/1		1.44					23		C		24					0.90	20/1	#12	RCPTS-224						
FURNITURE FEED	#12	*20/1		1.20					25	A			26					1.50	*20/1	#12	FURNITURE FEED						
FURNITURE FEED	#12	*20/1		1.20					27	B			28					1.50	*20/1	#12	FURNITURE FEED						
OFFICE 199	#12	20/1		1.44					29		C		30					1.00	20/1	#12	DISHWASHER-172						
FURNITURE FEED	#12	*20/1		1.20					31	A			32					0.90	20/1	#12	RCPTS-227						
FURNITURE FEED	#12	*20/1		1.20					33	B			34					0.50	20/1	#12	LOCKERS						
GP RCPTS	#12	20/1		1.26					35		C		36					0.50	20/1	#12	LOCKERS						
GP RCPTS	#12	20/1		1.26					37	A			38					1.50	20/1	#12	RCPTS-219						
GP RCPTS	#12	20/1		1.26					39	B			40					1.10	20/1	#12	RCPTS-217						
LOCKERS	#12	20/1		0.50					41		C		42					1.00	20/1	#12	IDF-216						
FURNITURE FEED	#12	*20/1		0.80					43	A			44					1.10	20/1	#12	RCPTS-GYM						
FURNITURE FEED	#12	*20/1		0.60					45	B			46					0.72	20/1	#12	LIBRARY TABLES						
LOCKERS	#12	20/1		0.50					47		C		48					0.72	20/1	#12	LIBRARY TABLES						
ICE MAKER-172	#12	20/1		1.40					49	A			50					1.50	20/1	#12	RCPTS-211						
IC FRIDGE-172	#12	20/1		0.30					51	B			52					1.26	20/1	#12	RCPTS-213						
COFFEE MAKER-172	#12	20/1		1.40					53		C		54					1.50	20/1	#12	CAFÉ COFFEE-212A						
WATER-172	#12	20/1		0.80					55	A			56					0.80	20/1	#12	CAFÉWATER-212A						
COUNTERTOP-172	#12	20/1		0.72					57	B			58					1.40	20/1	#12	CAFÉ ICE MAKER-212A						
FRIGERATOR-172	#12	20/1		1.00					59		C		60					0.48	20/1	#12	CAFÉ REF-212A						
FRIGERATOR-172	#12	20/1		1.00					61	A			62					1.10	20/1	#12	COPIER-206						
MICROWAVE-172	#12	20/1		1.80					63	B			64					1.26	20/1	#12	RCPTS-205						
FURNITURE FEED	#12	*20/1		1.20					65		C		66					1.26	20/1	#12	RCPTS-203						
FURNITURE FEED	#12	*20/1		1.20					67	A			68					1.08	20/1	#12	RCPTS-202						
MICROWAVE-172	#12	20/1		1.60					69	B			70					1.08	20/1	#12	OFFICE-207						
DISHWASHER-172	#12	20/1		1.00					71		C		72					1.50	*20/1	#12	FURNITURE FEED						
RCPTS MAIL ROOM	#12	20/1		1.08					73	A			74					1.50	*20/1	#12	FURNITURE FEED						
RCOP -102	#12	20/1		0.80					75	B			76					1.44	20/1	#12	RCPTS-195						
RCPTS-171	#12	20/1		1.26					77		C		78						20/1		SPARE						
BEV COOLER-172	#12	20/1		0.80					79	A			80						20/1		SPARE						
RCPTS-172	#12	20/1		0.90					81	B			82						20/1		SPARE						
SPARE	#12	20/1							83		C		84						20/1		SPARE						
TOTALS			0.00	45.88	0.00	0.00	0.00	0.00										0.00	0.00	0.00	0.00	39.64	0.00		TOTALS		
PHASE		A	B	C	KVA	m		KVA	LEGEND		SHADED LIGHT GREY	EXISTING TO REMAIN															
LIGHTING		0.00	0.00	0.00	0.00	MOTOR		1.75	BOLD TEXT		NEW WORK IN EXISTING PANEL																
RECEPTACLE		29.70	30.52	27.58	87.80	(LARGEST)			STANDARD TEXT		NEW WORK IN NEW PANEL																
HEAT		0.00	0.00	0.00	0.00																						
KITCHEN		0.00	0.00	0.00	0.00																						
MISCELLANEOUS		0.00	0.00	0.00	0.00																						
TTLs		29.70	30.52	27.58	87.80	TTL CONNECTED LOAD			TOTAL DESIGN AMPS		143.89																

GENERAL NOTES:
1. PROVIDE GFCI BREAKERS FOR ALL CIRCUITS SERVING WET AREA APPLIANCES, KITCHEN EQUIPMENT, ETC. THAT IS FIXED EQUIPMENT AND IS DIFFICULT TO MOVE FOR ACCESS TO A GFCI RECEPTACLE.
2. PROVIDE HACR BREAKERS FOR ALL AIR CONDITIONING, HEATING AND REFRIGERATION LOADS (NEC 440.21)
3. ALL WORK AND EQUIPMENT SHALL FULLY COMPLY WITH THE NATIONAL ELECTRICAL CODE (CURRENT VERSION) AND AUTHORITIES HAVING JURISDICTION REQUIREMENTS.
4. PROVIDE HANDLE TIES FOR BREAKERS WITH STAR "*" INDICATED NEXT TO BREAKER SIZE. SEE FURNITURE SYSTEMS ON FLOORPLANS.

NEW PANELBOARD SCHEDULE														PANEL L1B													
MAIN SIZE: MAIN TYPE: KAIC RATING:		225 MCB 22		NEMA 1 MOUNTING: SURFACE VOLTAGE: 208 /120V 3PH,4W												NEMA 1 MOUNTING: SURFACE VOLTAGE: 208 /120V 3PH,4W											
DESCRIPTION	WIRE SIZE	AMPS POLE	LOAD (KVA)						CKT NO	PHASE			CKT NO	LOAD (KVA)						AMPS POLE	WIRE SIZE	DESCRIPTION					
			LTG	RCPT	MTR	HEAT	KITCH	MISC		MISC	KITCH	HEAT		MTR	RCPT	LTG											
OFFICE-148	#12	20/1		0.90					1	A			2					1.26	20/1	#12	OFFICE-147						
RECEPTION-144	#12	20/1		1.27					3	B			4					0.90	20/1	#12	CONF-113						
WATER COOLER-144	#12	20/1		1.00					5		C		6					1.26	20/1	#12	OFFICE-141						
OFFICE-143	#12	20/1		1.26					7	A			8					1.26	20/1	#12	OFFICE-150						
OFFICE-152	#12	20/1		1.26					9	B			10					1.26	20/1	#12	CPUNSELORS HALLWAY						
OFFICE-139	#12	20/1		1.26					11		C		12					0.90	20/1	#12	OFFICE-123						
COFFEE-156	#12	20/1		1.40					13	A			14					1.00	20/1	#12	DISHWASHER-156						
MICROWAVE-156	#12	20/1		1.60					15	B			16					0.36	20/1	#12	RCPTS-156						
MED-CONF-157	#12	20/1		0.90					17		C		18					1.00	20/1	#12	REFRIGERATOR-156						
FURNITURE FEED	#12	*20/1		0.90					19	A			20					0.72	20/1	#12	PHONE RM-120						
FURNITURE FEED	#12	*20/1		0.90					21	B			22					0.72	20/1	#12	OFFICE-110						
FURNITURE FEED	#12	*20/1		1.20					23		C		24					0.72	20/1	#12	MED CONF 109						
FURNITURE FEED	#12	*20/1		1.20					25	A			26					1.08	20/1	#12	OFFICE-104						
FURNITURE FEED	#12	*20/1		0.90					27	B			28					0.90	20/1	#12	PHONE-108						
FURNITURE FEED	#12	*20/1		0.90					29		C		30					0.90	20/1	#12	HALL-129						
FURNITURE FEED	#12	*20/1		0.90					31	A			32					0.50	20/1	#12	LOCKERS-130						
FURNITURE FEED	#12	*20/1		0.90					33	B			34				1.20	20/1	#12	EF-11							
FURNITURE FEED	#12	*20/1		0.90					35		C		36				1.20	20/1	#12	EF-12							
FURNITURE FEED	#12	*20/1		0.90					37	A			38	0.70				20/1	#12	DUCT SMOKE DETECTOR							
LOUNGE-117	#12	20/1		1.50					39	B			40					1.26	20/1	#12	ROOFTOP RCPTS						
ICE MAKER-117	#12	20/1		1.00					41		C		42					1.26	20/1	#12	ROOFTOP RCPTS						
WATER-117	#12	20/1		0.80					43	A			44				1.20	20/1	#12	EFs 1-7							
FLOORBOX-157	#12	20/1		0.90					45	B			46				0.70	20/1	#12	HWRP-1, HWRP-2, SE-1							
HALL-159A	#12	20/1		0.90					47		C		48					0.70	20/1	#12	EFs 8-10						
STOR-159	#12	20/1		0.72					49	A			50				1.26	20/1	#12	RCPTS-159							
RCPTS-159	#12	20/1		0.90					51	B			52				0.90	20/1	#12	RCPTS-159							
STORAGE-162	#12	20/1		1.26					53		C		54				1.00	20/1	#12	WORK ROOM-165							
WORK ROOM-165	#12	20/1		1.00					55	A			56				1.00	20/1	#12	WORK ROOM-165							
HUDDLE-167	#12	20/1		1.08					57	B			58				0.80	20/1	#12	EWIC							
WELLNESS-132	#12	20/1		0.90					59		C		60				1.00	20/1	#12	COPIER-130							
USB-130	#12	20/1		0.72					61	A			62				0.90	20/1	#12	STORAGE-170							
COFFEE-117	#12																										