ELECTRICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED. V3.00

STANDARD MOUNTING HEIGHTS

AUDIBLE APPLIANCES (CENTERLINE)	84"
ALARMS	48"
ANNUNCIATOR PANELS (DISPLAY)	60"
CONTROLS (TOP OF DEVICE)	48"
EXIT SIGNS (WALL MOUNTED)	80"
FIRE ALARM ANNUNCIATOR PANEL (DISPLAY)	60"
FIRE ALARM BELL (EXTERIOR) (CENTERLINE)	120"
FIRE ALARM CONTROL PANEL/UNIT (DISPLAY)	60"
INTERCOM (AFEA ONLY)	36"
INTERCOMS (TOP OF DEVICE)	48"
PULL STATIONS (TOP OF DEVICE)	48"
PHOTOCELLS	144"
RECEPTACLES	16"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	24"
RECEPTACLES (POOLS)	27"
RECEPTACLES (ABOVE COUNTER) +6" ABOVE BACKSPLASH/COUNTER, 40" MAX.	
RECEPTACLES IN EQUIPMENT ROOMS	44"
REMOTE INDICATING LIGHT (EQUIPMENT ROOMS)	48"
REMOTE INDICATING LIGHT (FINISHED AREAS)	CEILING
SAFETY SWITCHES (TOP OF DEVICE)	48"
STARTERS (TOP OF DEVICE)	48"
SWITCHES (TOP OF DEVICE)	44"
TELEPHONE, DATA OUTLETS	SAME AS ADJACENT DEVICE, UNO
TELEPHONE TERMINAL BOARD (BOTTOM)	6"
TELEVISION OUTLETS	REFER TO ARCH DRAWINGS
VISIBLE APPLIANCES (CENTERLINE)	84"

INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG TO BOTTOM OF OUTLET BOX, UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ABBREVIATIONS

AF	AMPERE FUSE SIZE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMPERE SWITCH SIZE
AT	AMPERE TRIP SETTING
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
BAS	BUILDING AUTOMATION SYSTEM
BKR	BREAKER
C	CONDUIT
CAT	CATEGORY
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CD	CANDELA
CKT	CIRCUIT
CODE	APPLICABLE CODE ADOPTED BY JURISDICTION
CT	CURRENT TRANSFORMER
CTR	CENTER
CVD	CUMULATIVE VOLTAGE DROP
D/DEMO	DEMOLISH
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
E/ETR/EX	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
ELV	ELECTRONIC LOW-VOLTAGE
EWC	ELECTRIC WATER COOLER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCA	FAULT CURRENT AMPS AVAILABLE
FCU	FAN COIL UNIT
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FL	FLOOR
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GES	GROUNDING ELECTRODE SYSTEM
GFR	GROUND FAULT RELAY
G	GROUND
IG	ISOLATED GROUND
ISC	SHORT CIRCUIT CURRENT
JB/J-BOX	JUNCTION BOX
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
LTG/LTS	LIGHTING/LIGHTS
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MLV	MAGNETIC LOW-VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
N/A	NOT APPLICABLE
NF	NON-FUSED
NL	NIGHT LIGHT (24HR ON)
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY (CSA, ETL, NSF, UL)
NTS	NOT TO SCALE
OS	OCCUPANCY SENSOR
P	POLE
PART	PARTIAL CIRCUIT
PH/Ø	PHASE
PNL	PANEL
PNLBD	PANELBOARD
PROVIDE	FURNISH AND INSTALL
PT	POTENTIAL TRANSFORMER
QTY	QUANTITY
R/REL	RELOCATE
RCPT	RECEPTACLE
RELT	REDUCED ENERGY LET-THRU
RLA	RUNNING LOAD AMPS
RTU	ROOFTOP UNIT
SCCR	SHORT-CIRCUIT CURRENT RATING
SD	SMOKE DUCT DETECTOR
SF	SQUARE FEET
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SSBJ	SUPPLY-SIDE BONDING JUMPER
ST	SHUNT TRIP
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBD	TO BE DETERMINED
TGB	TELECOMMUNICATIONS GROUND BUS BAR
TL	TWISTLOCK
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR
TX/XFMR	TRANSFORMER
TYP	TYPICAL
U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VD	VOLTAGE DROP
VFD	VARIABLE FREQUENCY DRIVE
VS	VACANCY SENSOR
W	WIRE
W/	WITH
WP	WEATHER PROOF
WR	WEATHER RESISTANT
WT	WATERTIGHT
XP	EXPLOSION PROOF

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING ——————— NEW ———————

DEMOLISH — — — — — FUTURE - - - - - - - - - - - -

ANNOTATION

- MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT
- PLUMBING PLAN NOTE CALLOUT
- ELECTRICAL OR FIRE ALARM PLAN NOTE CALLOUT
- TECHNOLOGY PLAN CALLOUT
- PLUMBING EQUIPMENT DESIGNATION, (CONTRACTOR FURNISHED AND INSTALLED), REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES
- EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
- MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
- CONNECTION POINT OF NEW WORK TO EXISTING
- DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
- SECTION CUT DESIGNATION

CIRCUITING & WIRING

- HOMERUN TO PANELBOARD, INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD FOR TERMINATION, REFER TO PANELBOARD SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES.
- INDICATES RELAY NUMBER
- CIRCUIT CONTINUATION OR PARTIAL CIRCUIT
- CONDUIT CONCEALED
- CONDUIT CONCEALED (EMERGENCY)
- CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION
- EXPOSED CONDUIT
- EXPOSED CONDUIT (EMERGENCY)
- FLEXIBLE CONDUIT
- LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT)
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- CONNECTION POINT OR EQUIPMENT TERMINATION
- EQUIPMENT TERMINATION

CONDUCTOR TICK MARK LEGEND

WHERE TICK MARKS ARE SHOWN, THE FOLLOWING SHALL GOVERN:

- SWITCHED HOT (PHASE) CONDUCTORS (SHOWN TRAILING NEUTRAL)
- NEUTRAL (GROUNDED) CONDUCTOR
- UNSWITCHED HOT (PHASE) CONDUCTORS (SHOWN LEADING NEUTRAL)

NOTE: HASH MARKS INDICATE QUANTITY OF CONDUCTORS

- EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION OR BARE)
- ISOLATED GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER)

BRANCH CIRCUIT CONDUCTOR TABLE

WHERE TICK MARKS ARE NOT SHOWN, THE FOLLOWING SHALL GOVERN:

# OF POLES	HOT (PHASE)*	NEUTRAL (GROUNDED)**	GROUNDING***
1P	(1)	(1) UNO	(1)
2P	(2)	(1) UNO	(1)
3P	(3)	(1) UNO	(1)

* PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (SWITCHED, UNSWITCHED/EM, ETC.) AS INDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.

** REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A MULTI-WIRE BRANCH CIRCUIT, UNO.

*** PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED.

REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING AND CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS.

LIGHTING

- LIGHT FIXTURE
  - a = LOWER CASE LETTER IS SWITCH IDENTIFIER
  - A = UPPER CASE LETTER INDICATES LIGHT FIXTURE TYPE
  - = WALL MOUNT
  - = ARROW INDICATED AIMING DIRECTION
- LIGHT FIXTURE CIRCUITED AS A NIGHT LIGHT (NL)
- EMERGENCY LIGHT FIXTURE WITH EMERGENCY LIGHTING BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
- NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
- LIGHT FIXTURE WITH DUAL BALLASTS CIRCUITED SEPARATELY (SHADING IMPLIES EMERGENCY LIGHT FIXTURE)
- LIGHTING TRACK (# INDICATES RELAY NUMBER)
- MIRROR LIGHTS
- EXTERIOR PARKING LOT LIGHT FIXTURE
- EXTERIOR PEDESTRIAN POST TOP LIGHT FIXTURE
- EXTERIOR LIT BOLLARD LIGHT
- EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED
- EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING/WALL MOUNTED
- AFEA (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED

REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION

POWER EQUIPMENT & DEVICES

- ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT)
- ELECTRICAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS NOTED
- PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO, SIZE AS NOTED
- SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD
- ELECTRICAL DISTRIBUTION PANELBOARD
- TRANSFORMER
- DISCONNECT SWITCH - "200/3/150/3R" DENOTES AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, NF= NON-FUSED, CB= CIRCUIT BREAKER (200/3/CB), NO VALUE (200/3/150) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "30/3/15/1/3R" DENOTES AMPERES/POLE/FUSE/NEMA STARTER SIZE/NEMA ENCLOSURE RATING. NF= NON-FUSED, CB= CIRCUIT BREAKER (30/3/CB/1), NO VALUE (200/3/150/1) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 ENCLOSURE RATING
- MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED, 3-POLE, UNO
- VARIABLE FREQUENCY DRIVE
- INDICATING LIGHT
- EMERGENCY POWER OFF BUTTON
- STOP-START PUSH BUTTON CONTROL STATION
- HAND-OFF-AUTO PUSH BUTTON CONTROL STATION
- MUSHROOM-TYPE PUSH BUTTON
- OVERHEAD PADDLE FAN

BOXES, LIGHTING CONTROL & WIRING DEVICES

SWITCH LETTER DESIGNATIONS AS FOLLOWS:
- BLANK = SINGLE
- 2 = TWO POLE
- 3 = THREE-WAY
- 4 = FOUR-WAY
- D = DIMMER
- F = FAN SPEED CONTROL
- FH = FRACTIONAL HORSEPOWER MANUAL CONTROLLER
- IH = INTEGRAL HORSEPOWER MANUAL CONTROLLER
- K = KEYED
- LV# = LOW VOLTAGE / DIGITAL
- M = MANUAL MOTOR STARTER DISCONNECT
- OS# = OCCUPANCY SENSOR
- P = SPST PILOT LIGHT
- WP = WEATHER PROOF
- # = REFER TO LIGHTING CONTROL DEVICE SCHEDULE

- ALC — AUTOMATIC LOAD CONTROL RELAY
- BTS — BRANCH CIRCUIT TRANSFER SWITCH
- CEILING / WALL MOUNTED OCCUPANCY SENSOR (# INDICATES TYPE PER SCHEDULE)
  - CORNER 90 DEGREE SENSING
  - ONE-DIRECTION SENSING, CEILING/WALL MOUNT
  - CEILING MOUNT, TWO DIRECTION SENSING
  - CEILING MOUNT, FOUR DIRECTION SENSING
- C# — CONTACTOR (SIZE, COIL VOLTAGE AND NUMBER OF POLES AS INDICATED)
- CL## — TRACK-MOUNTED CURRENT LIMITER (## INDICATES AMPERAGE)
- DR — DAYLIGHT SENSOR (# INDICATES TYPE PER SCHEDULE)
- LC — LIGHTING CONTROLS PROCESSOR AND/OR EQUIPMENT
- PW — POWER PACK (# INDICATES TYPE PER SCHEDULE)
- PS# — PHOTOELECTRIC SWITCH
- R## — ROOM CONTROLLER (# INDICATES TYPE PER SCHEDULE)
- TS# — TIME SWITCH
- PC — EXTERIOR PHOTOCELL
- ATC — ASTRONOMICAL TIME CLOCK
- SIMPLEX RECEPTACLE - NEMA 5-20R, UNO
- DUPLEX RECEPTACLE - NEMA 5-20R, UNO
- DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO
- SPECIAL RECEPTACLE - NEMA TYPE AS NOTED
- TWIST-LOCK TYPE RECEPTACLE
- BLANK FACE GFCI FEED THROUGH DEVICE
- GFCI TYPE RECEPTACLE*
- ISOLATED GROUND TYPE RECEPTACLE*
- EMERGENCY RECEPTACLE*
- RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH*
- RECEPTACLE INSTALLED IN CEILING*
- RECEPTACLE INSTALLED IN FLOOR*
- RECEPTACLE INSTALLED VIA DROP CORD*

RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS:
- C = AUTOMATICALLY CONTROLLED
- CH = CLOCK HANGER TYPE
- G=RCPT PROTECTED BY GFCI CIRCUIT BREAKER OR UPSTREAM GFCI DEVICE
- H = HORIZONTALLY MOUNTED
- S = MANUALLY CONTROLLED
- SP / TVSS = SURGE PROTECTION
- TR = TAMPER RESISTANT
- TV = TELEVISION
- USB = USB/DUPLEX
- WP = WEATHER PROOF COVER
- WR = WEATHER RESISTANT

- MULTI-OUTLET ASSEMBLY
- TELEPHONE OUTLET
- DATA OUTLET
- MULTI-SERVICE OUTLET; TELEPHONE AND DATA
  - ABOVE COUNTER, TYP
  - WALL, TYP
  - FLOOR, TYP
- MULTI-SERVICE POWER POLE WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
- MULTI-SERVICE FLOOR BOX WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
- POKE THROUGH, A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
- THERMOSTAT
- CEILING/FLOOR MOUNT JUNCTION/OUTLET BOX
- WALL MOUNT JUNCTION/OUTLET BOX
- HH — TECHNOLOGY HANDHOLE REFER TO TECHNOLOGY SPECIFICATIONS

* SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE, WHEN USED IN COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE DEVICE TYPES.

REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE INFORMATION.

ELECTRICAL ONE-LINE & RISER DIAGRAM

- SWITCH (RATING AS INDICATED)
- DRAWOUT CIRCUIT BREAKER (RATINGS AS INDICATED)
- FUSED SWITCH (RATING, POLES AND FUSE TYPE AS INDICATED)
- COMBINATION FUSED SWITCH/STARTER AND STARTER SIZE
- CIRCUIT BREAKER (RATINGS AS INDICATED)
- COMBINATION CIRCUIT BREAKER/STARTER AND STARTER SIZE
- PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO SCHEDULES)
- ISOLATED POWER PANELBOARD W/ INTEGRAL TRANSFORMER (REFER TO SCHEDULES)
- TRANSFORMER (TYPE AND RATINGS AS INDICATED)
- SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED)
- AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)
- AUTOMATIC TRANSFER SWITCH WITH BYPASS (RATINGS AS INDICATED)
- GENERATOR (RATINGS AS INDICATED)
- NON-SEPARATELY DERVED SOURCE OR SEPARATELY DERIVED SOURCE
- SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION PANELBOARD, TYPE, RATING, DEVICES AND ACCESSORIES AS INDICATED)
- COMBINATION DIGITAL VOLT METER/AMMETER
- CIRCUIT IDENTIFICATION (REFER TO CIRCUIT SCHEDULE)
- GFR — GROUND FAULT RELAY
- PFR — PHASE FAILURE RELAY
- KK# — KIRK-KEY INTERLOCK (# INDICATES KEY PAIR)
- ST — SHUNT TRIP
- AM — AMMETER (RANGE AS SPECIFIED OR REQUIRED)
- VM — VOLTMETER (RANGE AS SPECIFIED OR REQUIRED)
- UTILITY METER (M) — UTILITY METER (AS REQUIRED BY UTILITY)
- AS — AMMETER SWITCH
- VS — VOLTMETER SWITCH
- WH — WATT-HOUR METER, "D" DENOTES DEMAND REGISTER, "15" DENOTES MINUTES OF DEMAND INTERVAL
- CURRENT TRANSFORMER RATING AS SPECIFIED OR REQUIRED
- POTENTIAL TRANSFORMER RATING AS SPECIFIED OR REQUIRED
- SPD — SURGE-PROTECTIVE DEVICE
- GROUND CONNECTION
- GROUND CONNECTION WITH TEST WELL
- GROUND ROD
- LIGHTNING ARRESTER
- CAPACITOR
- CONTACT (OPEN OR CLOSED)
- HEATER
- HP — MOTOR
- ## — BLOCK LOAD KW OR KVA
- ×F# ×FP# — FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND VOLTAGE DROP SPREADSHEET

SPECIAL SYSTEMS SUPPLEMENTAL SPECIFICATIONS:

1. PROVIDE NECESSARY BOXES, CONDUIT AND MAKE FINAL CONNECTIONS TO TEMPERATURE CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS. THIS INCLUDES BUT IS NOT LIMITED TO: MAIN CONTROL PANELS, THERMOSTATS, HUMIDISTATS, AC SOLENOIDS, HEAT RECLAIM WIRING, AHU CONTROL WIRING, DUCT FURNACE CONTROL WIRING, TIMERS, AND SIMILAR CONTROLS. PROVIDE CONDUIT FOR ALL WIRING WITHIN WALLS. PROVIDE CONTROL AND INTERLOCK WIRING WHEN NOT PROVIDED BY OTHER TRADES. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIERS AND OTHER TRADES PRIOR TO ROUGH-IN.
2. PROVIDE LINE VOLTAGE WIRING AND MAKE FINAL CONNECTIONS TO ALL DUCT-MOUNTED SMOKE DETECTORS, FIRE/SMOKE AND SMOKE DAMPERS WHERE APPLICABLE. COORDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO INSTALLATION.
3. DEVICES MOUNTED ON ACOUSTICAL TILE CEILINGS SHALL BE CENTERED ON THE TILE, UNO.
4. PROVIDE BOX AND **3/4"** CONDUIT, AT A MINIMUM, FROM EACH THERMOSTAT LOCATION TO MECHANICAL EQUIPMENT, (FLUSH MOUNT BOX WHEREVER PRACTICABLE). COORDINATE LOCATION OF ALL THERMOSTAT BOXES WITH MECHANICAL/CONTROLS CONTRACTOR AND OWNER PRIOR TO ROUGH-IN.
5. PROVIDE BOXES AND CONDUITS FOR THE FIRE PROTECTION SYSTEM LOW VOLTAGE WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 96" AFF, AT A MINIMUM, PROVIDE **3/4"** CONDUIT, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE ALARM SPECIFICATIONS.
6. AT A MINIMUM, PROVIDE EXTRA DEEP, DOUBLE GANG COMMUNICATION OUTLET BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE), WITH SINGLE-GANG PLASTER RING AND **1"** CONDUIT STUBBED-UP CONCEALED TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE. PROVIDE SURFACE MOUNTED DATA BOXES WITHIN CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED ON THE DRAWINGS. COORDINATE TELEPHONE/DATA BOX AND CONDUIT LOCATIONS AND SIZES WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN.
7. PROVIDE NYLON BUSHINGS FOR ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUITS AND SLEEVES, UNLESS NOTED OTHERWISE.
8. ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUIT SHALL BE INSTALLED WITH AN ACCESSIBLE PULLBOX BETWEEN EVERY 180 DEGREE CHANGE IN DIRECTION AND AT 100' INTERVALS OF CONTINUOUS RUNS.
9. MINIMUM BEND RADIUS FOR COMMUNICATIONS CONDUIT IS 6 TIMES THE INSIDE DIAMETER FOR CONDUITS 2" IN DIAMETER AND SMALLER AND 10 TIMES THE INSIDE DIAMETER FOR CONDUITS GREATER THAN 2" IN DIAMETER, UNLESS NOTED OTHERWISE.
10. LOW VOLTAGE COMMUNICATION, ENERGY MANAGEMENT, SOUND SYSTEM, SECURITY AND RELATED WIRING IS TO BE PERFORMED BY OTHERS UNDER A SEPARATE CONTRACT, UNLESS NOTED OTHERWISE. PROVIDE BOXES AND CONDUIT IN FINISHED AND RATED FLOORS/WALLS/CEILINGS TO ACCESSIBLE LOCATIONS FOR ALL LOW VOLTAGE WIRING. PROVIDE ALL LINE VOLTAGE CIRCUITRY (120V AND HIGHER) TO OWNER FURNISHED EQUIPMENT AND LOW VOLTAGE STEP-DOWN TRANSFORMERS AS REQUIRED. COORDINATE ELECTRICAL REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND OWNER.
11. ALL LOW VOLTAGE CLASS 2 OR 3 WIRING NOT IN CONDUIT SHALL BE PLENUM RATED WHERE APPLICABLE.
12. LOW VOLTAGE CABLE SHEATH LABELS AND RELATED MANUFACTURER INFO SHALL REMAIN APPARENT IN ALL EXPOSED APPLICATIONS. PROTECT ALL EXPOSED CABLING FROM PAINTING AND OVERSPRAY (INCLUDES CABLE NOT ROUTED IN CONDUIT AND THAT IS IN CABLE TRAY).
13. CABLES SHALL BE ROUTED THROUGH THE BUILDING CABLE TRAY/RACEWAY SYSTEM, UNLESS NOTED OTHERWISE. EXPOSED CABLING SHALL NOT BE ROUTED IN AREAS EXPOSED TO STRUCTURE UNLESS SPECIFICALLY PERMITTED BY THE OWNER. IN AREAS WHERE EXPOSED CABLES ARE ALLOWED, IT SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS. WHERE REQUIRED, PROVIDE CONDUIT TO ROUTE LOW VOLTAGE CABLING TO THE CABLE TRAY OR NEAREST ACCESSIBLE CEILING SPACE.
14. CONDUITS FOR COMMUNICATIONS OUTLETS SERVING ELEVATOR EQUIPMENT ROOMS, FACP, AND SIMILAR CRITICAL EQUIPMENT AS DESIGNATED BY THE OWNER SHALL BE CONTINUOUS ("HOMERUN") FROM OUTLET TO SERVING COMMUNICATIONS ROOM.

APPLICABLE ELECTRICAL CODES:

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES, THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

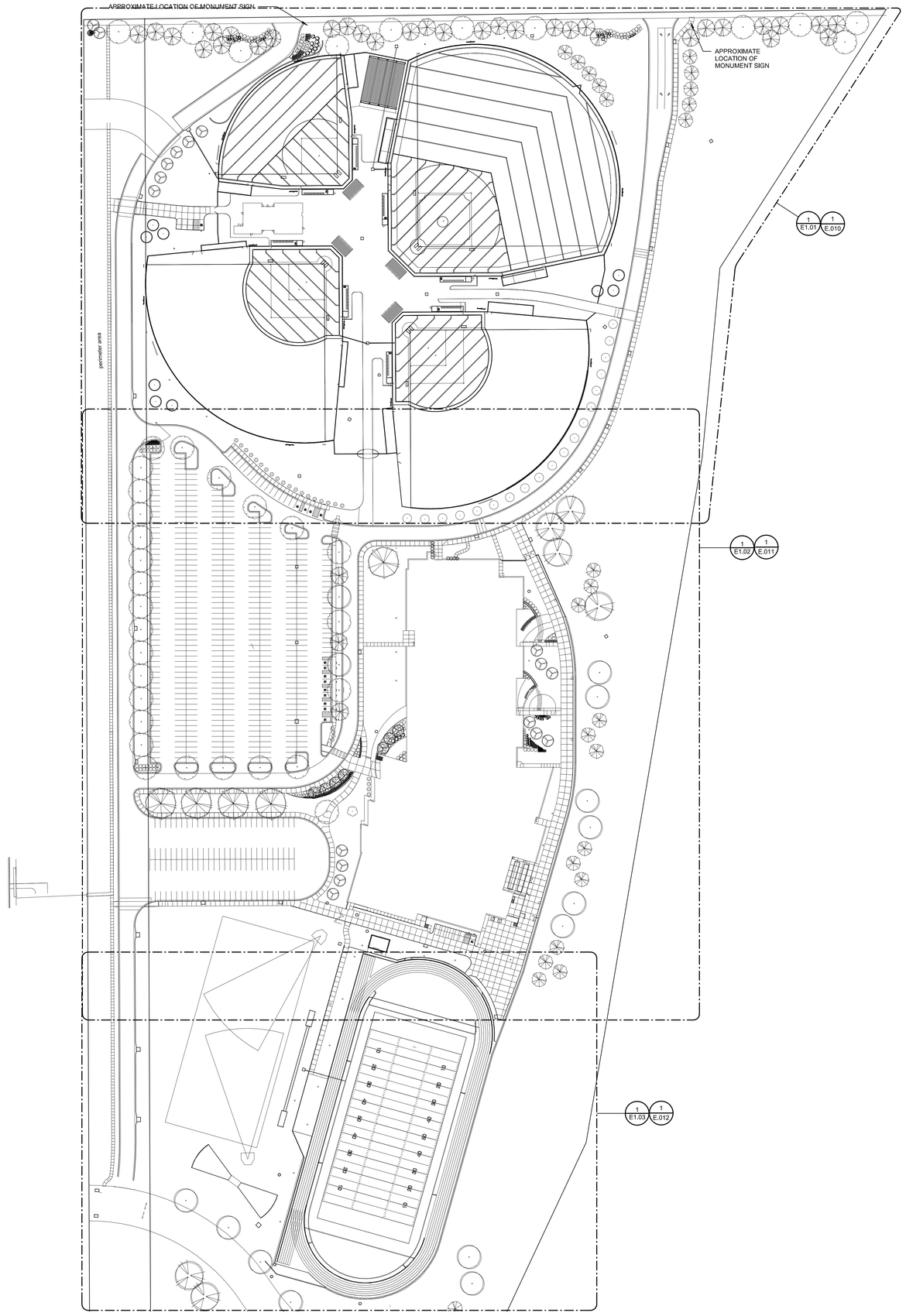
ELECTRICAL CODE: **2017 NATIONAL ELECTRICAL CODE, (NFPA 70)**
BUILDING CODE: **2018 INTERNATIONAL BUILDING CODE**
ENERGY CODE: **NONE**

COMMISSIONING / FUNCTIONAL TESTING:

CONTRACTOR'S BID SHALL INCLUDE PROVISIONS TO PROVIDE ALL SERVICES RELATED TO THE CODE REQUIRED BUILDING SYSTEMS COMMISSIONING INCLUDING A COMMISSIONING PLAN, FUNCTIONAL TESTING, AND RELATED DOCUMENTATION, REPORTS AND OWNER TRAINING. THIS INCLUDES RETAINING THE SERVICES OF A 3RD PARTY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY, REFER TO THE LATEST ADOPTED EDITION OF THE APPLICABLE ENERGY CODE FOR MORE INFORMATION. CONTRACTOR SHALL COMPLETE ALL RELATED COMMISSIONING REQUIREMENTS PRIOR TO FINAL INSPECTIONS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, CODE AND MANUFACTURER'S INSTRUCTIONS.

ELECTRICAL SUPPLEMENTAL SPECIFICATIONS:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS. AS APPLICABLE, REVIEW THE OWNER CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.
2. ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS. ALL EQUIPMENT SHALL BEAR LABELS FOR THE USE INTENDED BY AN AHJ ACCEPTED NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) SUCH AS UL OR ETL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY OCCUPIED BY OWNER SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.
3. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS OF ALL LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY DEVICES, CORDS, PLUGS, DISCONNECTS AND FINAL CONNECTIONS TO ELECTRICAL EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER AND MANUFACTURER REQUIREMENTS.
4. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT AND WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE OWNER REQUIREMENTS.
5. ALL CONDUCTOR AND CONDUIT LENGTHS SHOWN IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL. UNLESS NOTED OTHERWISE, LENGTHS SHOWN SHALL NOT BE USED TO ASSIST IN THE BIDDING TAKEOFF PROCESS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT.
6. PROVIDE PROPER FIRE PROOFING AND SEALANT FOR PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. THE FIRE STOPPING METHOD, MATERIAL AND ITS APPLICATION SHALL BE NRTL LISTED, CODE COMPLIANT AND APPROVED BY AHJ.
7. FOR CAST-IN-PLACE CONCRETE, TILT-UP WALLS, PRECAST OR SIMILAR PRE-ENGINEERED WALL SYSTEMS: COORDINATE THE FINAL LOCATION OF ALL ELECTRICAL DEVICES, RACEWAYS, LIGHT FIXTURES AND PENETRATIONS WITH ARCHITECT, WALL SUPPLIER AND OTHER TRADES PRIOR TO WALL CONSTRUCTION. CONDUIT/RACEWAY IMBEDDED IN CONCRETE WALLS SHALL BE SCHEDULE 80 PVC OR LFMC; OTHER TYPES MAY BE ALLOWED IF APPROVED BY WALL SYSTEM MANUFACTURER AND ENGINEER.
8. ICC 500/STORM OR FEMA SHELTERS, WHERE REQUIRED ELECTRICAL RACEWAY, ROUGH-IN, OR OTHER EQUIPMENT RESULTS IN PENETRATIONS EQUAL TO EXCEEDING RACEWAYS, LIGHT FIXTURES AND PENETRATIONS WITH ARCHITECT, WALL SUPPLIER AND OTHER TRADES PRIOR TO WALL CONSTRUCTION. CONDUIT/RACEWAY IMBEDDED IN CONCRETE WALLS SHALL BE SCHEDULE 80 PVC OR LFMC; OTHER TYPES MAY BE ALLOWED IF APPROVED BY WALL SYSTEM MANUFACTURER AND ENGINEER.
9. ALL APPLICABLE SWITCHES, RECEPTACLES, OUTLETS, AND CONTROLS SHALL BE PLACED AT HEIGHTS THAT ARE IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES.
10. COORDINATE FLOOR MOUNTED BOX, RECEPTACLE, AND COVER PLATE TYPES WITH ARCHITECT AND OWNER PRIOR TO ORDER.
11. WIRING DEVICES ADJACENT TO EACH OTHER SHALL BE INSTALLED UNDER A SINGLE COVER PLATE, UNO.
12. WIRING DEVICES SHOWN BACK-TO-BACK ON A COMMON WALL SHALL BE



1 ELECTRICAL SITE PLAN - OVERALL
1" = 80'-0"

SITE ELECTRICAL GENERAL NOTES:

1. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE THE FINAL LOCATION OF ALL SITE LIGHTING POLES, SIGNAGE, UNDERGROUND UTILITIES, CONDUITS, CIRCUITRY, TRANSFORMERS AND OTHER EQUIPMENT WITH CIVIL DRAWINGS, LANDSCAPING DRAWINGS AND OWNER PRIOR TO INSTALLATION.
2. COORDINATE ALL SITE ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER INFORMATION AND OTHER TRADES AND ADJUST ELECTRICAL PROVISIONS AS REQUIRED TO MEET REQUIREMENTS.
3. SITE ELECTRICAL CONDUITS SHALL BE 1" MINIMUM, UNLESS NOTED OTHERWISE. WHERE PRACTICABLE, ALL SITE ELECTRICAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE, UNLESS NOTED OTHERWISE. COORDINATE FINAL CONDUIT ROUTING WITH EXISTING OBSTRUCTIONS AND OTHER TRADES AND ADJUST AS NECESSARY.
4. CAP AND MARK ALL UNDERGROUND CONDUITS PROVIDED FOR FUTURE USE AND INCLUDE PULL STRINGS. PROVIDE DIMENSIONED LOCATIONS OF TERMINATION POINTS ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER.
5. MINIMUM WIRE SIZE FOR SITE ELECTRICAL CIRCUITS SHALL BE #10 AWG CU, UNLESS NOTED OTHERWISE. ALL SITE ELECTRICAL BRANCH CIRCUIT WIRING SHALL BE SIZED SUCH THAT THE MAXIMUM BRANCH CIRCUIT VOLTAGE DROP IS LESS THAN 3 PERCENT.

2
6. PROVIDE SPLICE AND PULL BOXES FOR SITE LIGHTING, SITE ELECTRICAL POWER, AND LOW VOLTAGE CABLING TO LIMIT MAXIMUM CONDUIT RUN TO 300'. PLACE BOXES IN A PLANTER AREA CLEAR OF VEGETATION WHEREVER PRACTICAL; (COORDINATE FINAL LOCATION WITH CIVIL, LANDSCAPE CONTRACTOR AND OWNER). BOXES SHALL BE SUITABLE FOR LOCATION AND PROPERLY SIZED FOR QUANTITY AND SIZE OF CONDUITS IN AND OUT AND SHALL BE MARKED "ELECTRICAL". NOT ALL OF THESE BOXES ARE SHOWN ON SITE ELECTRICAL DRAWINGS. CONTRACTOR SHALL PROVIDE LOCATION ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER. SPLICE BOX SHALL BE APPROPRIATE FOR LOCATION, AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SPLICE BOX SHALL HAVE A MINIMUM NOMINAL SIZE OF 12"X12"X12". SHALL BE AN OPEN BOTTOM NRTL LISTED UNDERGROUND ENCLOSURE, AND SHALL AT A MINIMUM BE TIER 15 TRAFFIC RATED.

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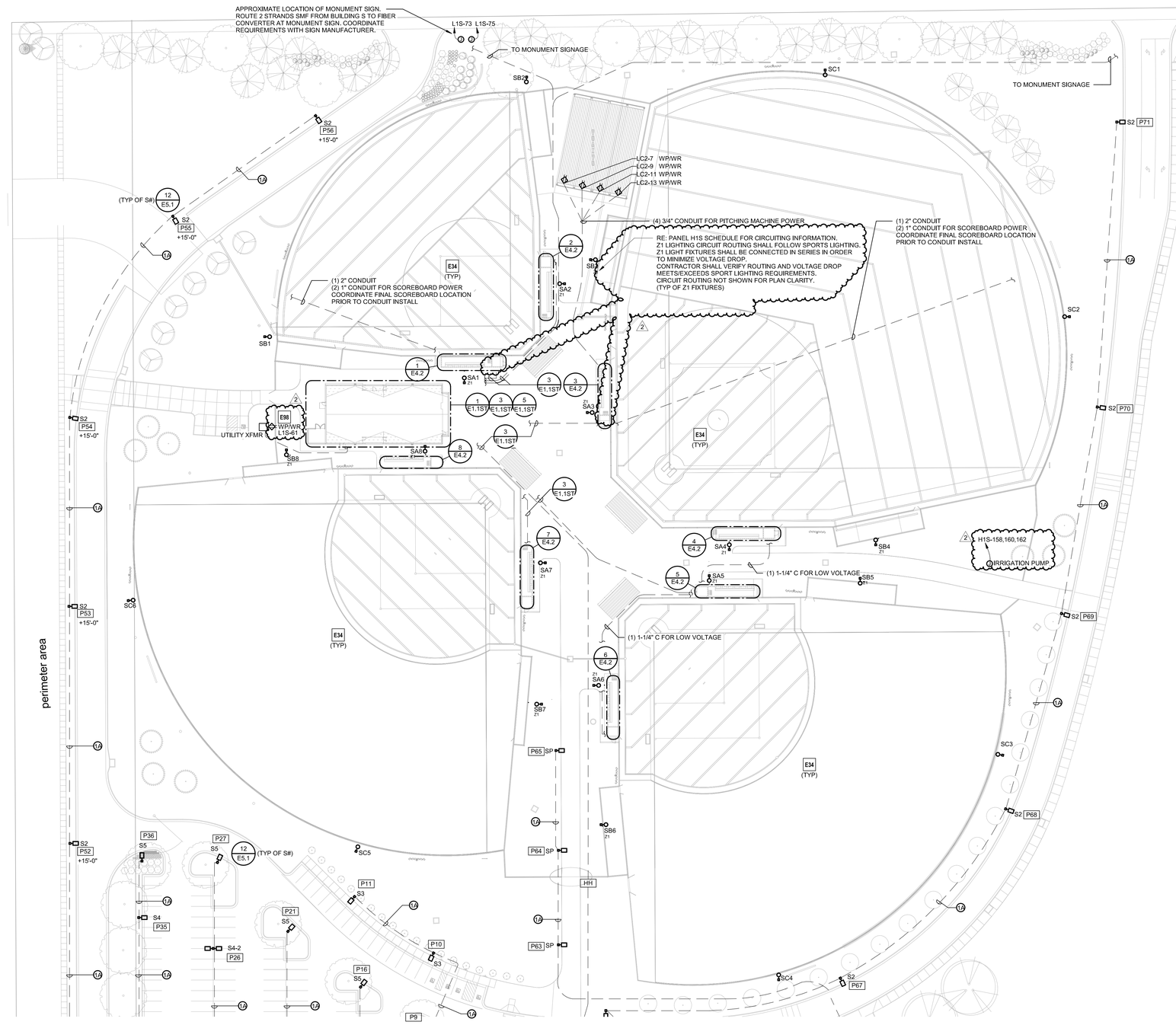
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ELECTRICAL SITE PLAN - OVERALL

E1.0

CURTIS A. OLDS



1 ELECTRICAL SITE PLAN - NORTH
1" = 40'-0"

POLE/MOUNTING HEIGHTS

FIXTURE	HEIGHT
SP	+12'-0"
S2	+20'-0"
S3	+20'-0"
S4	+20'-0"
S4-2	+20'-0"
S5	+20'-0"
W1,W1E	+12'-0"
W2,W2E	+12'-0"
W8,W8E	CANOPY CEILING MOUNTED
W16,W16E	VERTICAL WALL MOUNTING
WW	19'-7"

NOTE: THE ABOVE HEIGHTS ARE TYPICAL PER FIXTURE UNLESS NOTED OTHERWISE ON PLANS.

VOLTAGE DROP CALCULATIONS - ATHLETIC LIGHTING

PNL***-CKT	Identification		Source Pole	Conduit Type	Conductor Material	No. of	Wire Size	Voltage	Phase	Circuit Length	Power Factor	Circuit Load	Branch Voltage Drop
	Pole	Fixture		P or S	CU or AL	Sets	(Phase)			(Feet)*	(PF)	(Amps)**	(%)
1,3,5	SA1	-	-	P	CU	1	10	480	3	235	0.90	5.900	0.551%
7,9,11	SA2	-	-	P	CU	1	10	480	3	385	0.90	5.900	0.903%
13,15,17	SB1	-	-	P	CU	1	10	480	3	235	0.90	10.500	0.981%
19,21,23	SB2	-	-	P	CU	1	10	480	3	565	0.90	10.500	2.359%
25,27,29	SA3	-	-	P	CU	1	10	480	3	315	0.90	9.100	1.140%
31,33,35	SA4	-	-	P	CU	1	10	480	3	440	0.90	9.100	1.592%
37,39,41	SB3	-	-	P	CU	1	8	480	3	410	0.90	17.300	1.855%
43,45,47	SB4	-	-	P	CU	1	6	480	3	630	0.90	19.200	2.022%
49,51,53	SC1	-	-	P	CU	1	6	480	3	755	0.90	15.300	1.931%
55,57,59	SC2	-	-	P	CU	1	6	480	3	890	0.90	15.300	2.276%
2,4,6	SA5	-	-	P	CU	1	10	480	3	415	0.90	9.100	1.501%
8,10,12	SA6	-	-	P	CU	1	10	480	3	485	0.90	9.100	1.755%
14,16,18	SB5	-	-	P	CU	1	8	480	3	540	0.90	14.100	1.991%
20,22,24	SB6	-	-	P	CU	1	8	480	3	620	0.90	14.100	2.286%
26,28,30	SC3	-	-	P	CU	1	8	480	3	830	0.90	10.900	2.366%
32,34,36	SC4	-	-	P	CU	1	8	480	3	880	0.90	10.900	2.508%
38,40,42	SA7	-	-	P	CU	1	10	480	3	310	0.90	9.100	1.122%
44,46,48	SA8	-	-	P	CU	1	10	480	3	140	0.90	9.100	0.507%
50,52,54	SB7	-	-	P	CU	1	10	480	3	460	0.90	14.100	2.579%
56,58,60	SB8	-	-	P	CU	1	10	480	3	120	0.90	14.100	0.673%
62,64,66	SC5	-	-	P	CU	1	10	480	3	365	0.90	10.900	1.582%
68,70,72	SC6	-	-	P	CU	1	8	480	3	575	0.90	10.900	1.974%

2 *Circuit length assumes reasonable conduit paths to pole, routed around playing field, 90-degree turns, and 70' for maximum pole height. Circuit length shall be assumed as approximate. Provide documentation during athletic field lighting submittal for review - contractor shall update circuit length and confirm no circuits exceed 2.8% voltage drop. Conduit pathways shall not be routed under any playing surfaces.
**Circuit load provided by Musco Lighting
***Circuits are fed from panel H1S and routed through Musco Lighting relay panels.

2 ALTERNATE NO. 3 - ATHLETIC FIELD LIGHTING:

1. BASE BID -
   A. NO FIELD LIGHTING TO BE PROVIDED FOR BASEBALL/SOFTBALL.
   B. BELOW GRADE CONDUIT TO POLE LOCATIONS TO BE PROVIDED FOR FUTURE FIELD LIGHTING.
   C. ELECTRICAL SERVICE AT CONCESSIONS BUILDING TO BE SIZED TO SUPPORT FIELD LIGHTING FOR ALL FOUR BASEBALL/SOFTBALL FIELDS.
2. ALTERNATE BID #1 -
   A. BASE BID + FIELD LIGHTING TO BE PROVIDED FOR TWO NORTH VARSITY COMPETITION BASEBALL/SOFTBALL FIELDS.
3. ALTERNATE BID #2 -
   A. BASE BID + ALTERNATE BID #1 + FIELD LIGHTING TO BE PROVIDED FOR TWO SOUTH BASEBALL/SOFTBALL FIELDS.

REFER TO DIVISION 1 SPECIFICATIONS FOR ADDITIONAL INFORMATION ON ALTERNATES.

2 **ELECTRICAL PLAN NOTES:**

E34 RE: VOLTAGE DROP AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION. TYPICAL OF SA#, SB#, AND SC# ATHLETIC FIELD LIGHTING FIXTURES.

E98 PROVIDE PEDESTAL MOUNTED RECEPTACLE TO SERVE IRRIGATION CONTROLLER. COORDINATE LOCATION WITH ARCHITECT.

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ELECTRICAL SITE PLAN - AREA 1

E1.01

CURTIS A. OLDS

LIGHTING CONTROLS INTENT:

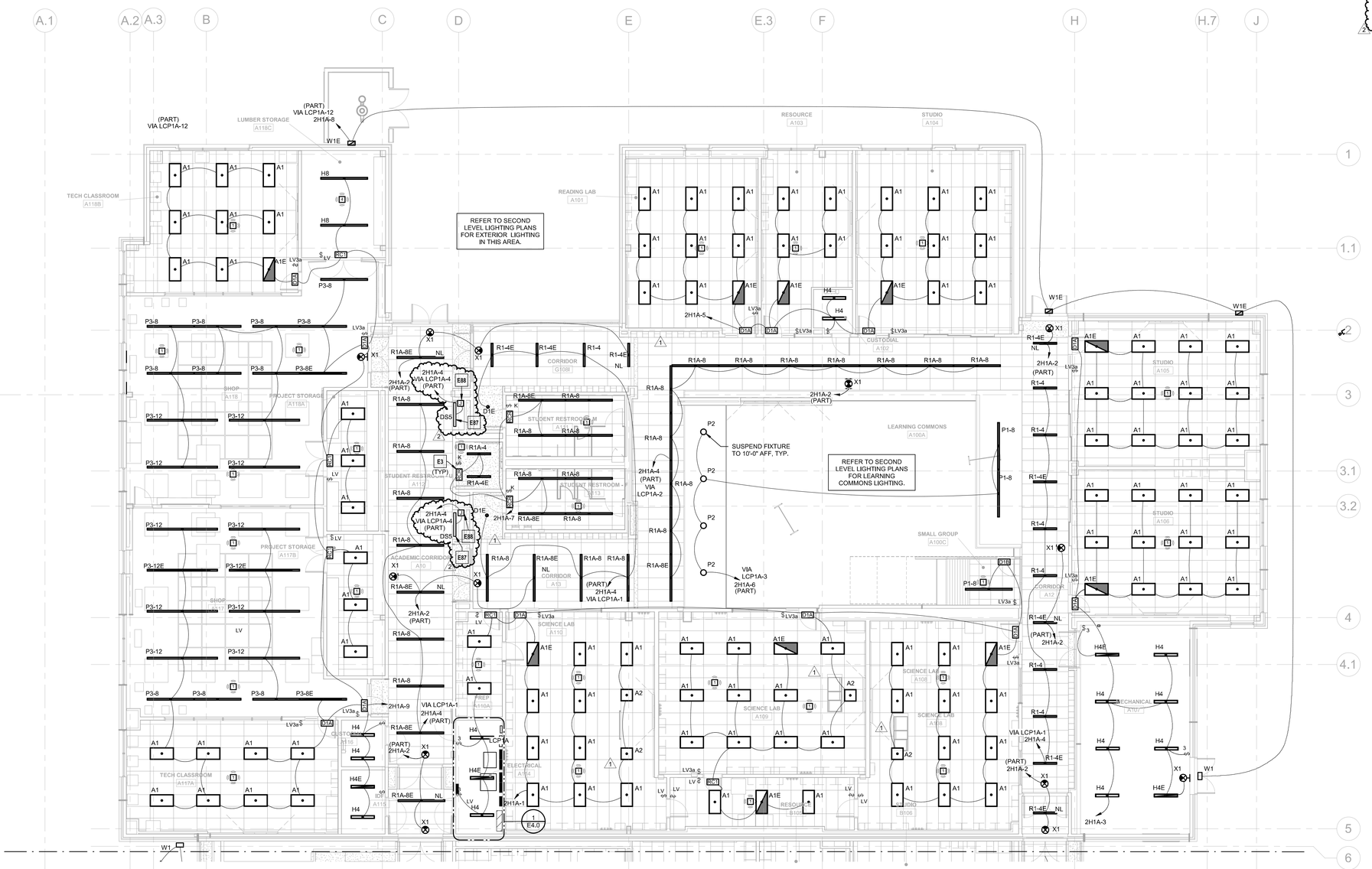
1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

ELECTRICAL PLAN NOTES:

E3 INSTALL RELAY PACK IN AN ACCESSIBLE LOCATION ABOVE CEILING. LOCATION SHOWN IS DIAGRAMMATIC TO REPRESENT ASSOCIATION TO LIGHT FIXTURES AND LIGHTING CONTROLS EQUIPMENT.

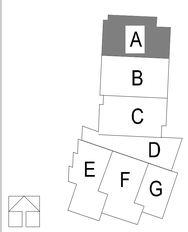
E87 DISPLAY CASE LIGHT FIXTURE. COORDINATE MOUNTING WITH ARCHITECT PRIOR TO ROUGH-IN.

E88 PROVIDE DISPLAY CABINET LIGHTING POWER SUPPLY AND 0-10V DIMMING MODULE IN ACCESSIBLE LOCATION ABOVE DISPLAY CASE. COORDINATE LOCATION WITH ARCHITECT SO THAT COMPONENTS ARE NOT VISIBLE TO OCCUPANT. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.



1 LIGHTING FIRST LEVEL RCP - AREA A
1/8" = 1'-0"

KEY PLAN



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LIGHTING FIRST LEVEL RCP - AREA A

E1.1A

CURTIS A. OLDS

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

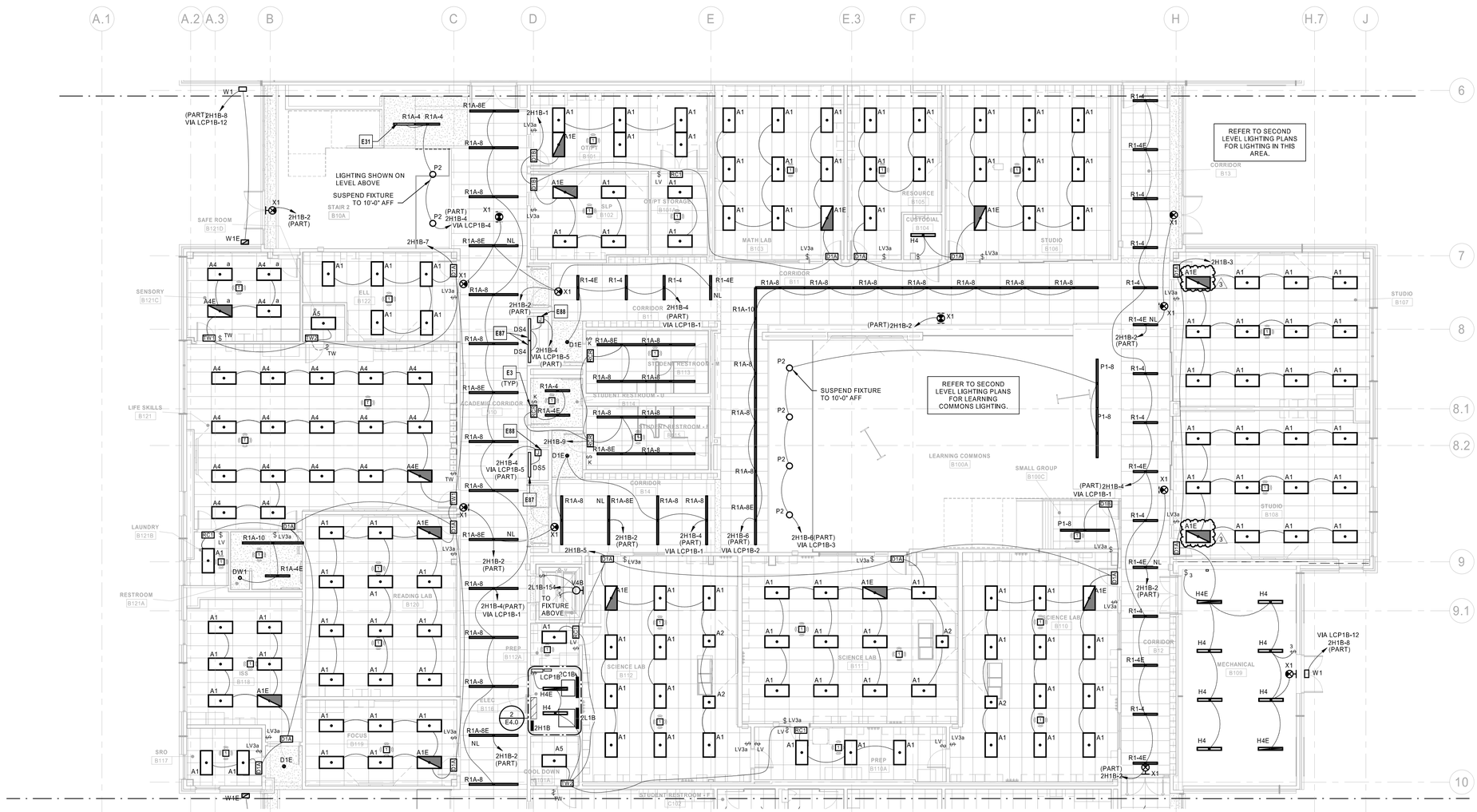
ELECTRICAL PLAN NOTES:

E3 INSTALL RELAY PACK IN AN ACCESSIBLE LOCATION ABOVE CEILING. LOCATION SHOWN IS DIAGRAMMATIC TO REPRESENT ASSOCIATION TO LIGHT FIXTURES AND LIGHTING CONTROLS EQUIPMENT.

E31 RECESSED LINEAR FIXTURE TO BE INSTALLED IN ANGLED PORTION OF CEILING UNDERNEATH STAIRS. COORDINATE INSTALLATION REQUIREMENTS FOR TRANSITION OF CEILING FROM FLAT TO ANGLED WITH MANUFACTURER'S SPECIFICATIONS.

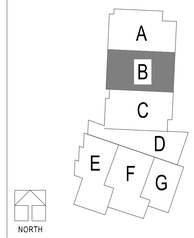
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E88 PROVIDE DISPLAY CABINET LIGHTING POWER SUPPLY AND 0-10V DIMMING MODULE IN ACCESSIBLE LOCATION ABOVE DISPLAY CASE. COORDINATE LOCATION WITH ARCHITECT SO THAT COMPONENTS ARE NOT VISIBLE TO OCCUPANT. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.



1 LIGHTING FIRST LEVEL RCP - AREA B
1/8" = 1'-0"

KEY PLAN



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2	ADDENDUM 002	10/19/20
3	ASI 003	12/02/20

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LIGHTING FIRST LEVEL RCP - AREA B

E1.1B

CURTIS A. OLDS

ELECTRICAL PLAN NOTES:

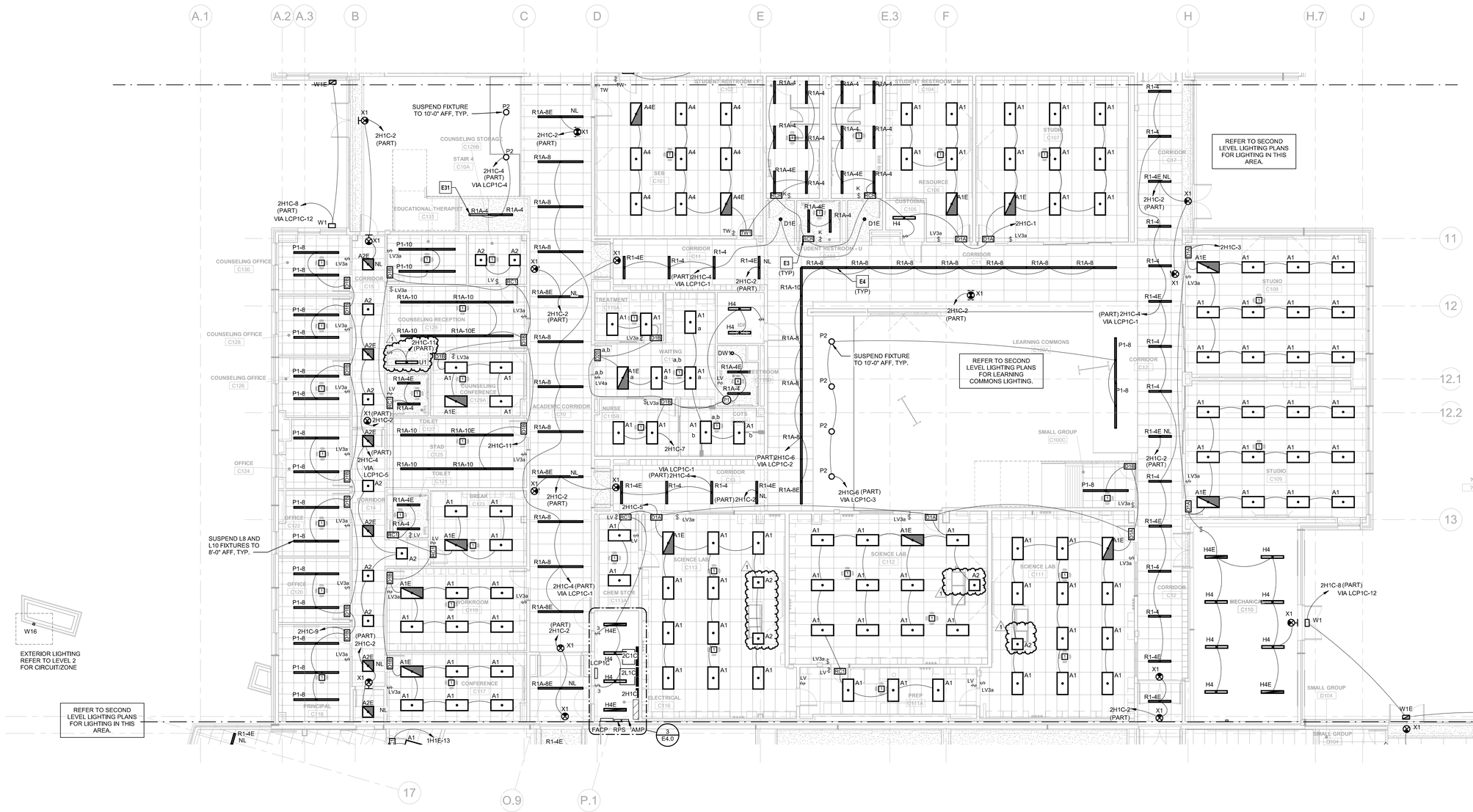
E3 INSTALL RELAY PACK IN AN ACCESSIBLE LOCATION ABOVE CEILING. LOCATION SHOWN IS DIAGRAMMATIC TO REPRESENT ASSOCIATION TO LIGHT FIXTURES AND LIGHTING CONTROLS EQUIPMENT.

E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.

E31 RECESSED LINEAR FIXTURE TO BE INSTALLED IN ANGLED PORTION OF CEILING UNDERNEATH STAIRS. COORDINATE INSTALLATION REQUIREMENTS FOR TRANSITION OF CEILING FROM FLAT TO ANGLED WITH MANUFACTURER'S SPECIFICATIONS.

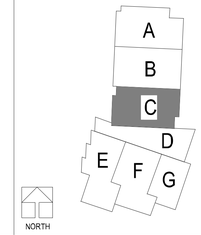
LIGHTING CONTROLS INTENT:

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1 LIGHTING FIRST LEVEL RCP - AREA C
1/8" = 1'-0"

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LIGHTING FIRST LEVEL RCP - AREA C

E1.1C

CURTIS A. OLDS

☐ ELECTRICAL PLAN NOTES:

E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.

E16 MOUNT EXIT SIGN TO STRUCTURAL ELEMENT BETWEEN UPPER AND LOWER STOREFRONT GLASS. COORDINATE ROUGH-IN WITH FIELD CONDITIONS.

E28 LOW VOLTAGE SWITCH FOR CONTROL OF MOTORIZED BLINDS IN ROOM D101. CONNECT SWITCH TO RELAY PANEL IN ROOM D108. COORDINATE LOCATION OF SWITCH WITH OWNER. COORDINATE CONTROLS REQUIREMENTS WITH MOTORIZED BLINDS MANUFACTURER.

E30 PROPOSED LOCATION FOR MASTER LIGHTING CONTROL INTERFACE FOR LIGHTING CONTROL PANELS. CONFIRM EXACT LOCATION WITH ARCHITECT AND COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

☐ ELECTRICAL PLAN NOTES:

E64 LOW VOLTAGE SWITCH FOR CONTROL OF MOTORIZED BLINDS IN ROOM D103, CONNECT SWITCH TO RELAY PANEL IN ROOM D108. COORDINATE LOCATION OF SWITCH WITH OWNER. COORDINATE CONTROLS REQUIREMENTS WITH MOTORIZED BLINDS MANUFACTURER.

E94 SWITCH IS FOR OPERATION OF COMMONS D101 LIGHTING AND IS TO INTERFACE WITH THEATRICAL LIGHTING CONTROL PANEL LCP1F.

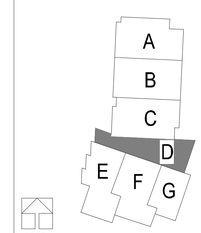
LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

REFER TO SECOND LEVEL LIGHTING PLANS FOR COMMONS LIGHTING.

1 LIGHTING FIRST LEVEL RCP - AREA D
1/8" = 1'-0"

KEY PLAN



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LEE'S SUMMIT MIDDLE SCHOOL #4

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PACKAGE 3 - BUILDING & SITE
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ADDENDUM 002 10/19/20

13-20102-00

LIGHTING FIRST LEVEL RCP - AREA D

E1.1D

CURTIS A. OLDS



1 LIGHTING FIRST LEVEL RCP - AREA E
1/8" = 1'-0"

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

☐ ELECTRICAL PLAN NOTES:

E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.

E6 KEYED SWITCH, IN VESTIBULE F102 AND ASSOCIATED OCCUPANCY SENSORS, TO CONTROL LIGHTS IN VESTIBULE F102 AND LEVEL 1 & 2 ADJACENT STAIRWELL E1 GO6.

E8 LOCKER ROOM KEYED SWITCH(ES) AND OCCUPANCY SENSORS TO CONTROL ALL LIGHTING ASSOCIATED WITH EACH LOCKER ROOMS: BOTH VESTIBULES, LOCKER ROOM AND RESTROOM.

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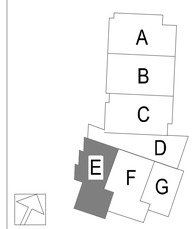
LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
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REVISIONS
ADDENDUM 01 10/13/20

KEY PLAN

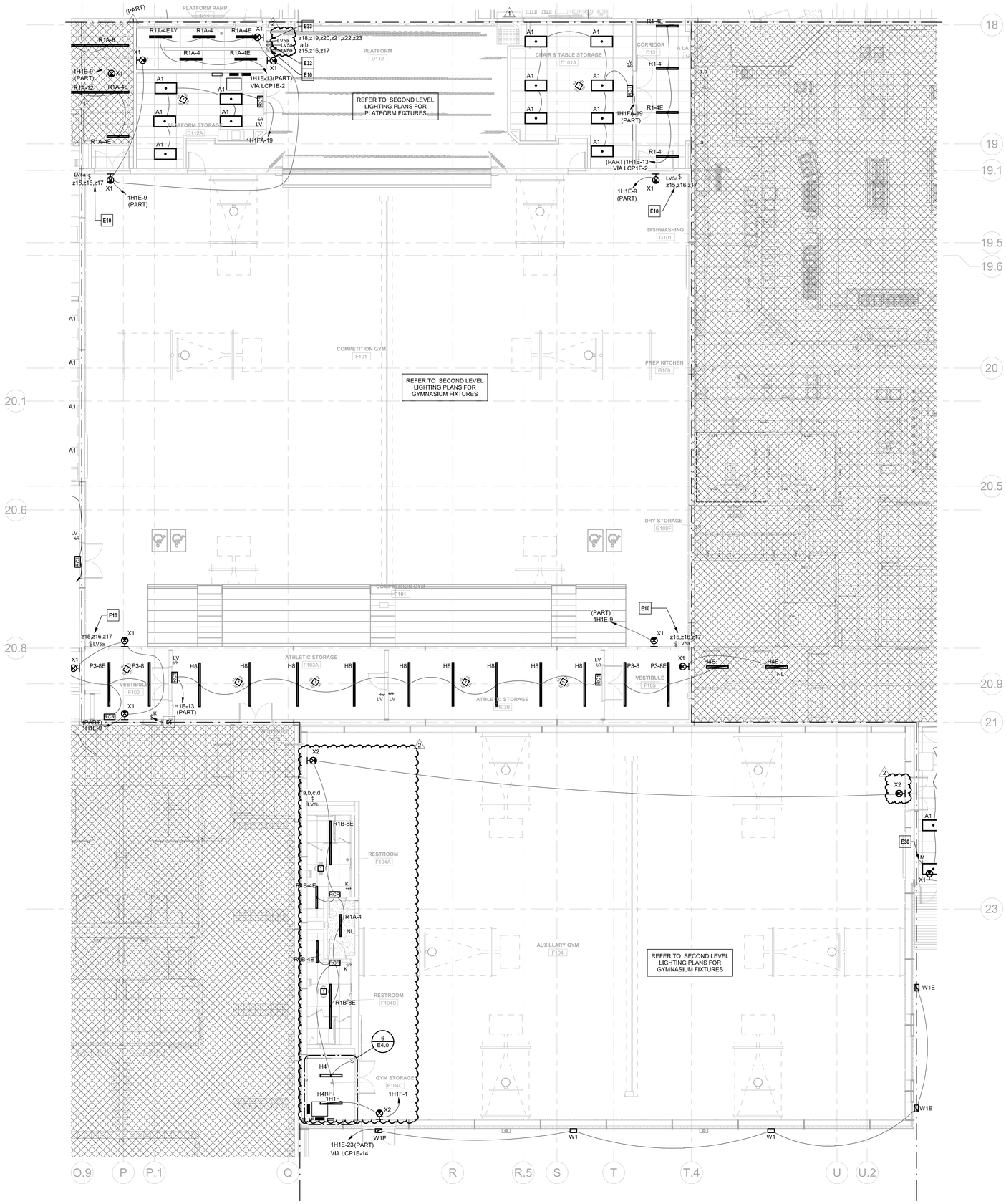


13-20102-00

LIGHTING FIRST LEVEL RCP - AREA E

E1.1E

CURTIS A. OLDS



1 LIGHTING FIRST LEVEL RCP - AREA F
1/8" = 1'-0"

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

☐ ELECTRICAL PLAN NOTES:

E6 KEYED SWITCH, IN VESTIBULE F102 AND ASSOCIATED OCCUPANCY SENSORS, TO CONTROL LIGHTS IN VESTIBULE F102 AND EVEL 1 & 2 OF PERCENTAGE WELL FLOOR.

2 E10 LOW VOLTAGE LIGHT SWITCHES FOR COMPETITION GYM F101 TO PROVIDE ON/OFF AND DIMMING FUNCTIONALITY FOR GYMNASIUM LIGHT FIXTURES. LIGHT SWITCH TO INTERFACE WITH LIGHTING CONTROL PANEL LCP1F LOCATED IN PLATFORM STORAGE D112A. CIRCUITS FOR GYMNASIUM LIGHT FIXTURES TO BE ROUTED THROUGH DIMMING MODULES IN LIGHTING CONTROL PANEL LCP1F AS SHOWN.

E30 PROPOSED LOCATION FOR MASTER LIGHTING CONTROL INTERFACE FOR LIGHTING CONTROL PANELS. CONFIRM EXACT LOCATION WITH ARCHITECT AND COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

E32 STAGE AREA LIGHTING CONTROL SWITCH SHOWN ON E1.1F. LIGHTING TO BE ROUTED THROUGH LIGHTING CONTROL PANEL LCP1F.

2 E33 COMMONS D101 LIGHTING TO BE ROUTED THROUGH NETWORKED LIGHTING CONTROL PANEL LCP1F. LIGHTING OPERATION IS TO BE CONTROLLED VIA TIME SWITCH CONTROLS AND MASTER LIGHTING CONTROL INTERFACE(S). PROVIDE AN ADDITIONAL INTERFACE FOR JUST THE COMMONS LIGHTING LOCATED ON PLATFORM D112.

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LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

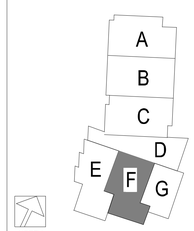
1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20

REVISIONS

ADDENDUM 001	10/13/20
ADDENDUM 002	10/19/20

KEY PLAN

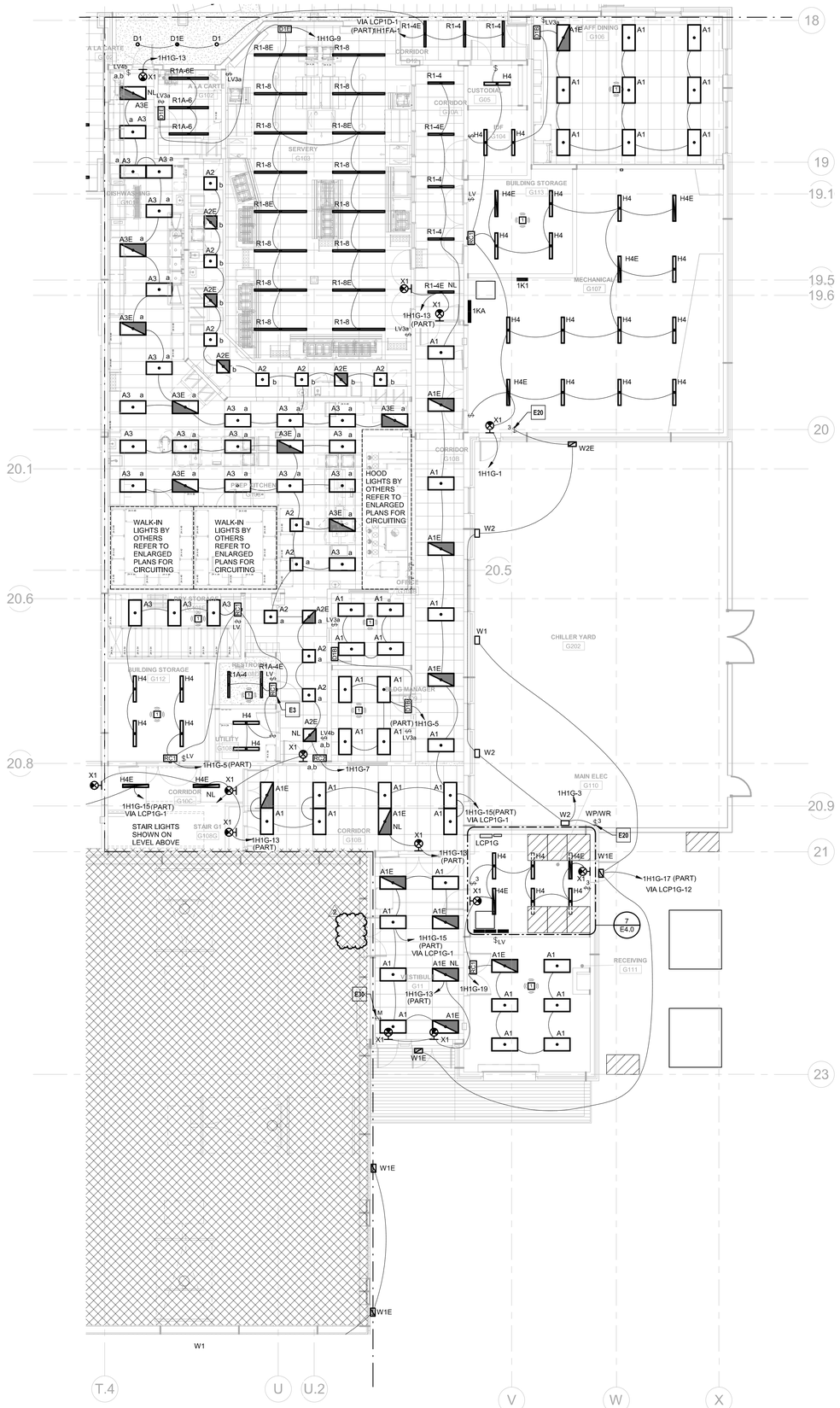


13-20102-00

LIGHTING FIRST LEVEL RCP - AREA F

E1.1F

CURTIS A. OLDS



1 LIGHTING FIRST LEVEL RCP - AREA G
1/8" = 1'-0"

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

FOOD SERVICE LIGHTING GENERAL NOTES:

1. ALL LIGHT FIXTURES IN FOOD STORAGE AREAS, OVER OPEN FOOD AREAS AND IN FOOD PREP AREAS SHALL BE LED TYPE OR PROVIDED WITH PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMPS. VERIFY THAT ALL AREAS ARE PROPERLY PROTECTED AFTER FINAL SET-UP IS COMPLETE. LIGHT FIXTURES IN FOOD PROCESSING AREAS SHALL BE EASILY CLEANABLE AND SUITABLE FOR THE LOCATION. USE PRODUCTS WITH THE APPROPRIATE NATIONAL SANITATION FOUNDATION (NSF) CERTIFICATION IF REQUIRED BY THE AHJ.
2. COORDINATE EXACT LIGHT FIXTURE LOCATIONS IN WALK-IN COOLERS AND FREEZERS WITH REFRIGERATION COILS AND OTHER TRADES.
3. LIGHTING UNDER HOODS AND IN WALK-IN COOLERS IS BY EQUIPMENT MANUFACTURER. PROVIDE ELECTRICAL CIRCUIT AND CONNECTION. COORDINATE ROUGH-IN REQUIREMENTS WITH FOOD SERVICE PLANS EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

☐ ELECTRICAL PLAN NOTES:

E3 INSTALL RELAY PACK IN AN ACCESSIBLE LOCATION ABOVE CEILING. LOCATION SHOWN IS DIAGRAMMATIC TO REPRESENT ASSOCIATION TO LIGHT FIXTURES AND LIGHTING CONTROLS EQUIPMENT.

E20 EXTERIOR BUILDING MOUNTED CHILLER YARD SERVICE LIGHTS TO BE CONTROLLED VIA (2) LINE VOLTAGE 3-WAY SWITCHES TO ALLOW FOR SERVICING OF EQUIPMENT WITH IN THE CHILLER YARD. PROVIDE LABEL FOR LIGHT SWITCHES INDICATING SWITCHES INTENDED USE.

E30 PROPOSED LOCATION FOR MASTER LIGHTING CONTROL INTERFACE FOR LIGHTING CONTROL PANELS. CONFIRM EXACT LOCATION WITH ARCHITECT AND COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

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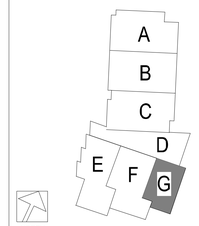
LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS
ADDENDUM 002 10/19/20

KEY PLAN

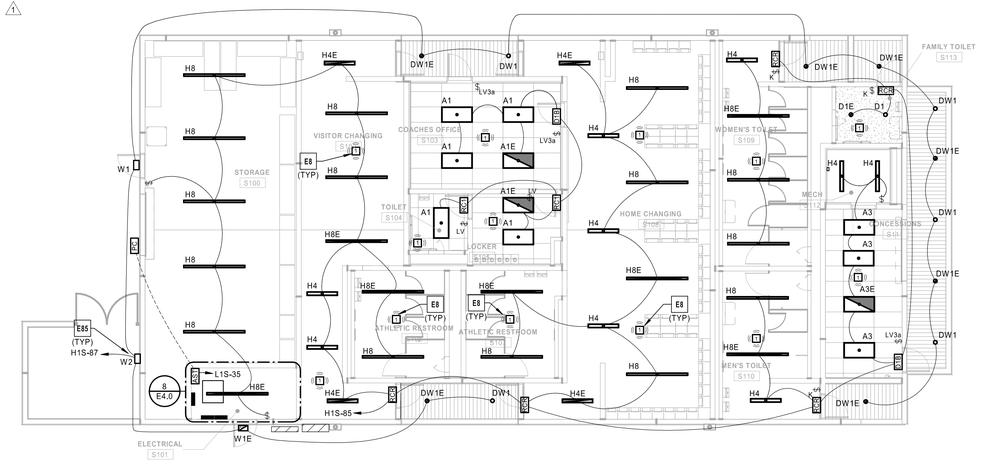


13-20102-00

LIGHTING FIRST LEVEL RCP - AREA G

E1.1G

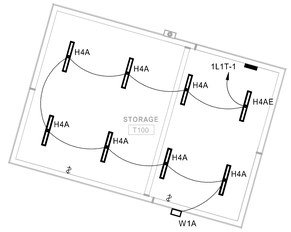
CURTIS A. OLDS



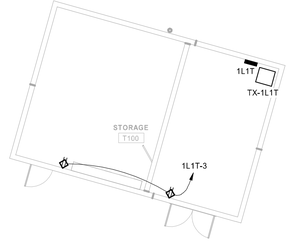
1 LIGHTING FIRST LEVEL RCP - AREA S
1/8" = 1'-0"

3 POWER FIRST LEVEL PLAN - AREA S
1/8" = 1'-0"

5 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA S
1/8" = 1'-0"



2 LIGHTING FIRST LEVEL RCP - AREA T
1/8" = 1'-0"



4 POWER FIRST LEVEL PLAN - AREA T
1/8" = 1'-0"

EQUIP CONN. - LVL1 - AREA S

MARK	LOCATION	PANEL	CIRCUIT	NOTES
COMPUTER ROOM - INDOOR				
CR 14	LVL1 - AREA S	L1S	49,51	B,C
COMPUTER ROOM - OUTDOOR				
CU 14	LVL1 - AREA S	L1S	49,51	
Electric Storage Water Heater				
WH11	LVL1 - AREA S	H1S	127,129,131	
FAN				
EF 23	LVL1 - AREA S	L1S	53	A
EF 24	LVL1 - AREA S	L1S	55	A
TF 2	LVL1 - AREA S	L1S	57	A
Recirculation Pump				
RP6	LVL1 - AREA S	L1S	59	B
UNIT HEATER ELECTRIC				
EUH 1	LVL1 - AREA S	H1S	89,91,93	A
EUH 2	LVL1 - AREA S	H1S	95	A
EUH 3A	LVL1 - AREA S	H1S	97	A
EUH 3B	LVL1 - AREA S	H1S	99	A
EUH 4	LVL1 - AREA S	H1S	101	A
EUH 5	LVL1 - AREA S	H1S	103,105,107	A
EUH 6	LVL1 - AREA S	H1S	109	A
EUH 7	LVL1 - AREA S	H1S	111,113,115	A
EUH 8	LVL1 - AREA S	H1S	117	A
EUH 9	LVL1 - AREA S	H1S	119,121,123	A
EUH 10	LVL1 - AREA S	H1S	125	A

GENERAL NOTES:

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

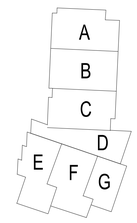
NOTES:

A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRACTOR OR FACTORY MOUNTED.
B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS.
C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.
D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.
E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS.
F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).
G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES.
H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.
L. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

ELECTRICAL PLAN NOTES:

E8 LOCKER ROOM KEYED SWITCH(ES) AND OCCUPANCY SENSORS TO CONTROL ALL LIGHTING ASSOCIATED WITH EACH LOCKER ROOMS: BOTH VESTIBULES, LOCKER ROOM AND RESTROOM.
E39 CONTRACTOR TO PROVIDE CONNECTION FOR CIRCULATION PUMP TIMER TO BE FED FROM SAME CIRCUIT AS CIRCULATION PUMP. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND PLUMBING PLANS.
E85 CONCESSION EXTERIOR BUILDING MOUNTED LIGHTING TO BE CONTROLLED BY COMBINATION OF PHOTOCELL AND ASTRONOMICAL TIME CLOCK. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR PROGRAMMING INFORMATION.
E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

KEY PLAN



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LEE'S SUMMIT R-7 SCHOOL DISTRICT

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PACKAGE 3 - BUILDING & SITE
10/08/20

REVISIONS

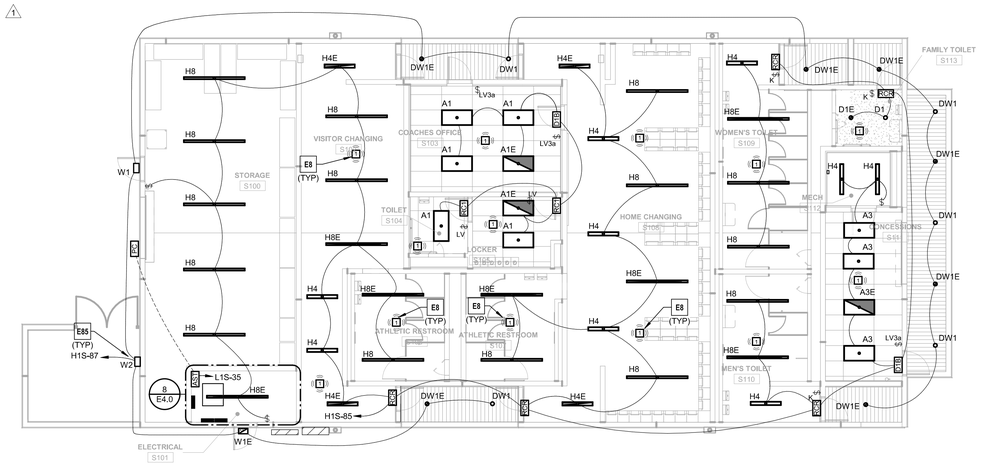
ADDENDUM 001	10/13/20
ADDENDUM 002	10/19/20
PR 001	11/11/20

13-20102-00

ELECTRICAL FIRST LEVEL PLANS - AREAS S,T

E1.1ST

CURTIS A. OLDS



1 LIGHTING FIRST LEVEL RCP - AREA S
1/8" = 1'-0"

2 LIGHTING FIRST LEVEL RCP - AREA T
1/8" = 1'-0"

3 POWER FIRST LEVEL PLAN - AREA S
1/8" = 1'-0"

4 POWER FIRST LEVEL PLAN - AREA T
1/8" = 1'-0"

5 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA S
1/8" = 1'-0"

EQUIP CONN. - LVL1 - AREA S

MARK	LOCATION	PANEL	CIRCUIT	NOTES
COMPUTER ROOM - INDOOR				
CR 14	LVL1 - AREA S	L1S	49,51	B,C
COMPUTER ROOM - OUTDOOR				
CU 14	LVL1 - AREA S	L1S	49,51	
Electric Storage Water Heater				
WH11	LVL1 - AREA S	H1S	127,129,131	
FAN				
EF 23	LVL1 - AREA S	L1S	53	A
EF 24	LVL1 - AREA S	L1S	55	A
TF 2	LVL1 - AREA S	L1S	57	A
Recirculation Pump				
RPB	LVL1 - AREA S	L1S	59	B
UNIT HEATER ELECTRIC				
EUH 1	LVL1 - AREA S	H1S	89,91,93	A
EUH 2	LVL1 - AREA S	H1S	95	A
EUH 3A	LVL1 - AREA S	H1S	97	A
EUH 3B	LVL1 - AREA S	H1S	99	A
EUH 4	LVL1 - AREA S	H1S	101	A
EUH 5	LVL1 - AREA S	H1S	103,105,107	A
EUH 6	LVL1 - AREA S	H1S	109	A
EUH 7	LVL1 - AREA S	H1S	111,113,115	A
EUH 8	LVL1 - AREA S	H1S	117	A
EUH 9	LVL1 - AREA S	H1S	119,121,123	A
EUH 10	LVL1 - AREA S	H1S	125	A

GENERAL NOTES:

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

NOTES:

A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRACTOR OR FACTORY MOUNTED.
B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS.
C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.
D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.
E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS.
F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER. RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).
G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES.
H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS, CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.
L. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

ELECTRICAL PLAN NOTES:

E8 LOCKER ROOM KEYED SWITCH(ES) AND OCCUPANCY SENSORS TO CONTROL ALL LIGHTING ASSOCIATED WITH EACH LOCKER ROOMS: BOTH VESTIBULES, LOCKER ROOM AND RESTROOM.

2 E39 CONTRACTOR TO PROVIDE CONNECTION FOR CIRCULATION PUMP TIMER TO BE FED FROM SAME CIRCUIT AS CIRCULATION PUMP. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND PLUMBING PLANS.

E85 CONCESSION EXTERIOR BUILDING MOUNTED LIGHTING TO BE CONTROLLED BY COMBINATION OF PHOTOCELL AND ASTRONOMICAL TIME CLOCK. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR PROGRAMMING INFORMATION.

1 E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

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KEY PLAN

13-20102-00

ELECTRICAL FIRST LEVEL PLANS - AREAS S,T

E1.1ST

CURTIS A. OLDS



1 ELECTRICAL SITE PLAN - AREA 2
1" = 40'-0"

VOLTAGE DROP CALCULATIONS - SITE LIGHTING

PNL-CKT	Identification		Source Pole	Conduit Type P or S	Conductor Material CU or AL	No. of Sets	Wire Size (Phase)	Voltage	Phase	Circuit Length (Feet)	Power Factor (PF)	Circuit Load (Amps)	Branch Voltage Drop (Volts)	Cumulative Voltage Drop (%)
	Pole	Fixture												
2H1C-12	P1	To S5	-	P	CU	1	8	277	1	200	0.95	8.538	2.586	0.934%
2H1C-12	P2	To S4-2	P1	P	CU	1	8	277	1	80	0.95	2.732	0.331	1.053%
2H1C-12	P3	To S4-2	P2	P	CU	1	8	277	1	90	0.95	2.049	0.279	1.154%
2H1C-12	P4	To S4-2	P3	P	CU	1	8	277	1	105	0.95	1.366	0.217	1.232%
2H1C-12	P5	To S4-2	P4	P	CU	1	8	277	1	80	0.95	0.683	0.083	1.262%
2H1C-12	P6	To S5	P1	P	CU	1	8	277	1	70	0.95	2.732	0.290	1.038%
2H1C-12	P7	To S4-2	P6	P	CU	1	8	277	1	140	0.95	2.391	0.507	1.221%
2H1C-12	P8	To S4-2	P7	P	CU	1	8	277	1	120	0.95	1.708	0.310	1.333%
2H1C-12	P9	To S5	P8	P	CU	1	8	277	1	140	0.95	1.025	0.217	1.412%
2H1C-12	P10	To S3	P9	P	CU	1	8	277	1	75	0.95	0.683	0.078	1.440%
2H1C-12	P11	To S3	P10	P	CU	1	8	277	1	85	0.95	0.342	0.044	1.455%
2H1C-12	P12	To S5	P6	P	CU	1	8	277	1	60	0.95	2.732	0.248	1.128%
2H1C-12	P13	To S4-2	P12	P	CU	1	8	277	1	80	0.95	2.391	0.290	1.232%
2H1C-12	P14	To S4-2	P13	P	CU	1	8	277	1	130	0.95	1.708	0.336	1.354%
2H1C-12	P15	To S4-2	P14	P	CU	1	8	277	1	130	0.95	1.025	0.202	1.427%
2H1C-12	P16	To S5	P15	P	CU	1	8	277	1	100	0.95	0.342	0.052	1.445%
2H1C-14	P17	To S5	-	P	CU	1	8	277	1	395	0.95	9.221	5.516	1.995%
2H1C-14	P18	To S4-2	P17	P	CU	1	8	277	1	145	0.95	2.391	0.525	2.185%
2H1C-14	P19	To S4-2	P18	P	CU	1	8	277	1	120	0.95	1.708	0.310	2.297%
2H1C-14	P20	To S4-2	P19	P	CU	1	8	277	1	135	0.95	1.025	0.209	2.372%
2H1C-14	P21	To S5	P20	P	CU	1	8	277	1	85	0.95	0.342	0.044	2.388%
2H1C-14	P22	To S5	P17	P	CU	1	8	277	1	65	0.95	3.415	0.336	2.116%
2H1C-14	P23	To S4-2	P22	P	CU	1	8	277	1	80	0.95	3.074	0.372	2.251%
2H1C-14	P24	To S4-2	P23	P	CU	1	8	277	1	125	0.95	2.391	0.453	2.414%
2H1C-14	P25	To S4-2	P24	P	CU	1	8	277	1	125	0.95	1.708	0.323	2.531%
2H1C-14	P26	To S4-2	P25	P	CU	1	8	277	1	135	0.95	1.025	0.209	2.607%
2H1C-14	P27	To S5	P26	P	CU	1	8	277	1	75	0.95	0.342	0.039	2.621%
2H1C-14	P28	To S5	P22	P	CU	1	8	277	1	55	0.95	3.074	0.256	2.209%
2H1C-14	P29	To S5	P28	P	CU	1	8	277	1	95	0.95	2.732	0.393	2.351%
2H1C-14	P30	To S5	P29	P	CU	1	8	277	1	65	0.95	2.391	0.235	2.436%
2H1C-14	P31	To S5	P30	P	CU	1	8	277	1	65	0.95	2.049	0.202	2.509%
2H1C-14	P32	To S5	P31	P	CU	1	8	277	1	65	0.95	1.708	0.168	2.569%
2H1C-14	P33	To S5	P32	P	CU	1	8	277	1	65	0.95	1.366	0.134	2.618%
2H1C-14	P34	To S5	P33	P	CU	1	8	277	1	65	0.95	1.025	0.101	2.654%
2H1C-14	P35	To S5	P34	P	CU	1	8	277	1	95	0.95	0.683	0.098	2.690%
2H1C-14	P36	To S5	P35	P	CU	1	8	277	1	50	0.95	0.342	0.026	2.699%
1H1E-33	P37	To S3	-	P	CU	1	8	277	1	125	0.95	4.781	0.905	0.330%
1H1E-33	P38	To S3	P37	P	CU	1	8	277	1	100	0.95	1.025	0.155	0.387%
1H1E-33	P39	To S2	P38	P	CU	1	8	277	1	140	0.95	0.683	0.145	0.439%
1H1E-33	P40	To S2	P39	P	CU	1	8	277	1	125	0.95	0.342	0.065	0.462%
1H1E-33	P41	To S2	P37	P	CU	1	8	277	1	145	0.95	0.683	0.150	0.385%
1H1E-33	P42	To S2	P41	P	CU	1	8	277	1	125	0.95	0.342	0.065	0.408%
1H1E-33	P43	To S4-2	P37	P	CU	1	8	277	1	80	0.95	2.732	0.331	0.450%
1H1E-33	P44	To S4-2	P43	P	CU	1	8	277	1	70	0.95	2.049	0.217	0.528%
1H1E-33	P45	To S4-2	P44	P	CU	1	8	277	1	70	0.95	1.366	0.145	0.581%
1H1E-33	P46	To S4-2	P45	P	CU	1	8	277	1	70	0.95	0.683	0.072	0.607%
2H1C-16	P47	To S2	-	P	CU	1	8	277	1	605	0.95	3.415	3.129	1.133%
2H1C-16	P48	To S2	P47	P	CU	1	8	277	1	220	0.95	1.025	0.341	1.257%
2H1C-16	P49	To S2	P48	P	CU	1	8	277	1	215	0.95	0.683	0.222	1.337%
2H1C-16	P50	To S2	P49	P	CU	1	8	277	1	235	0.95	0.342	0.122	1.381%
2H1C-16	P51	To S2	P47	P	CU	1	8	277	1	280	0.95	2.049	0.869	1.447%
2H1C-16	P52	To S2	P51	P	CU	1	8	277	1	300	0.95	1.708	0.776	1.727%
2H1C-16	P53	To S2	P52	P	CU	1	8	277	1	205	0.95	1.366	0.424	1.880%
2H1C-16	P54	To S2	P53	P	CU	1	8	277	1	165	0.95	1.025	0.256	1.973%
2H1C-16	P55	To S2	P54	P	CU	1	8	277	1	200	0.95	0.683	0.207	2.047%
2H1C-16	P56	To S2	P55	P	CU	1	8	277	1	150	0.95	0.342	0.078	2.075%
2H1C-18	P57	To SP	-	P	CU	1	8	277	1	215	0.95	1.894	0.604	0.222%
2H1C-18	P58	To SP	P57	P	CU	1	8	277	1	80	0.95	0.421	0.050	0.240%
2H1C-18	P59	To SP	P58	P	CU	1	8	277	1	620	0.95	0.210	0.193	0.399%
2H1C-18	P60	To SP	P57	P	CU	1	8	277	1	80	0.95	1.263	0.150	0.276%
2H1C-18	P61	To SP	P60	P	CU	1	8	277	1	110	0.95	1.052	0.172	0.338%
2H1C-18	P62	To SP	P61	P	CU	1	8	277	1	130	0.95	0.842	0.162	0.396%
2H1C-18	P63	To SP	P62	P	CU	1	8	277	1	390	0.95	0.631	0.365	0.528%
2H1C-18	P64	To SP	P63	P	CU	1	8	277	1	80	0.95	0.421	0.050	0.546%
2H1C-18	P65	To SP	P64	P	CU	1	8	277	1	85	0.95	0.210	0.027	0.555%
2H1A-10	P66	To S2	-	P	CU	1	8	277	1	1	0.95	2.049	0.003	0.005%
2H1A-10	P67	To S2	P66	P	CU	1	8	277	1	205	0.95	1.708	0.519	0.192%
2H1A-10	P68	To S2	P67	P	CU	1	8	277	1	205	0.95	1.366	0.415	0.342%
2H1A-10	P69	To S2	P68	P	CU	1	8	277	1	175	0.95	1.025	0.266	0.438%
2H1A-10	P70	To S2	P69	P	CU	1	8	277	1	180	0.95	0.683	0.182	0.504%
2H1A-10	P71	To S2	P70	P	CU	1	8	277	1	245	0.95	0.342	0.124	0.548%
2H1C-20	P80	To SF	-	P	CU	1	8	277	1	200	0.95	0.375	0.111	0.044%
Typ Run	-	S3/S5 Fixture	-	P	CU	1	8	277	1	20	0.95	0.342	0.010	0.004%
Typ Run	-	S4-2 Fixture	-	P	CU	1	8	277	1	20	0.95	0.683	0.021	0.007%

POLE/MOUNTING HEIGHTS

FIXTURE	HEIGHT
SP	+12'-0"
S2	+20'-0"
S3	+20'-0"
S4	+20'-0"
S4-2	+20'-0"
S5	+20'-0"
W1,W1E	+12'-0"
W2,W2E	+12'-0"
W8,W8E	CANOPY CEILING MOUNTED
W16,W16E	VERTICAL WALL MOUNTING
WW	19'-7"

NOTE: THE ABOVE HEIGHTS ARE TYPICAL PER FIXTURE UNLESS NOTED OTHERWISE ON PLANS.

ELECTRCAL SHEET NOTES:

P# = SITE LIGHTING POLE DESIGNATION FOR VOLTAGE DROP CALCULATIONS ON THIS SHEET.

1. COORDINATE EXACT POLE LOCATION WITH ARCHITECT, CIVIL, AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. UNDERGROUND CONDUIT ROUTING SHOWN FOR REFERENCE AND VOLTAGE DROP CALCULATIONS. COORDINATE EXACT ROUTING WITH OTHER UTILITIES, TREES, AND OTHER OBSTACLES. IF ROUTING DIFFERS FROM SHOWN, PROVIDE REVISED VOLTAGE DROP CALCULATIONS FOR REVIEW PRIOR TO INSTALLATION.

SITE LIGHTING CIRCUIT LEGEND

(#) # INDICATES NUMBER OF CIRCUITS IN A CONDUIT
_ INDICATES CIRCUIT(S) CONDUCTOR(S) SIZE AND CONFIGURATION

(1) 1-1/2" PVC CONDUIT WITH PULLSTRING FOR FUTURE

(3#) (3) 2" PVC CONDUIT WITH PULLSTRING FOR FUTURE

(1#) 1-1/2" PVC CONDUIT WITH (2) #8 THWN CU. & (1) #8 GND.

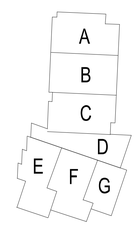
(2#) 1-1/2" PVC CONDUIT WITH (4) #8 THWN CU & (1) #8 GND.

2

ELECTRICAL PLAN NOTES:

E100 FLAG POLE SPOT LIGHTING TO BE MOUNTED IN LANDSCAPING ON TOP OF IN-GRADE ELECTRICAL JUNCTION BOX. COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS. COORDINATE EXACT LOCATION OF FLAGPOLES AND LOCATION OF WITH ARCHITECTURAL AND LANDSCAPING PLANS PRIOR TO BEGINNING ANY WORK.

KEY PLAN



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ELECTRICAL SITE PLAN - AREA 2

E1.02

CURTIS A. OLDS

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

ELECTRICAL PLAN NOTES:

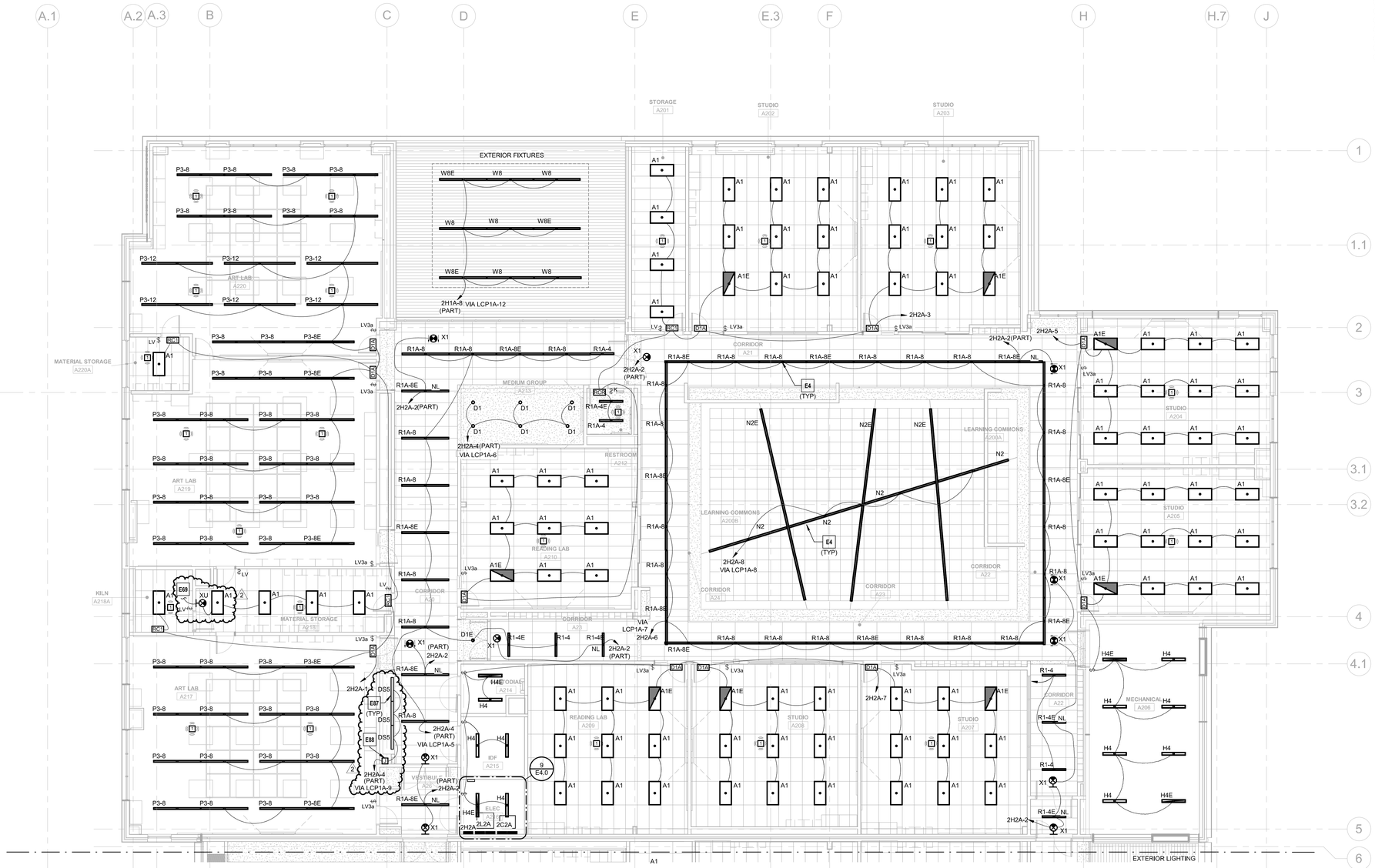
E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.

E69 PROVIDE "IN USE" SIGN B.O.A.F.F. FOR KILN ROOM. PROVIDE RELAYS AS NEEDED TO INTERCONNECT SIGN WITH KILN CONTROL PANEL AND BAS CONTROLS SO THAT LIGHT IS ILLUMINATED WHEN KILN IS IN USE.

E87 DISPLAY CASE LIGHT FIXTURE, COORDINATE MOUNTING WITH ARCHITECT PRIOR TO ROUGH-IN.

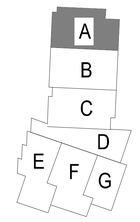
E88 PROVIDE DISPLAY CABINET LIGHTING POWER SUPPLY AND 0-10V DIMMING MODULE IN ACCESSIBLE LOCATION ABOVE DISPLAY CASE. COORDINATE LOCATION WITH ARCHITECT SO THAT COMPONENTS ARE NOT VISIBLE TO OCCUPANT. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.

2



1 LIGHTING SECOND LEVEL RCP - AREA A
1/8" = 1'-0"

KEY PLAN



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LIGHTING SECOND LEVEL RCP - AREA A

E1.2A

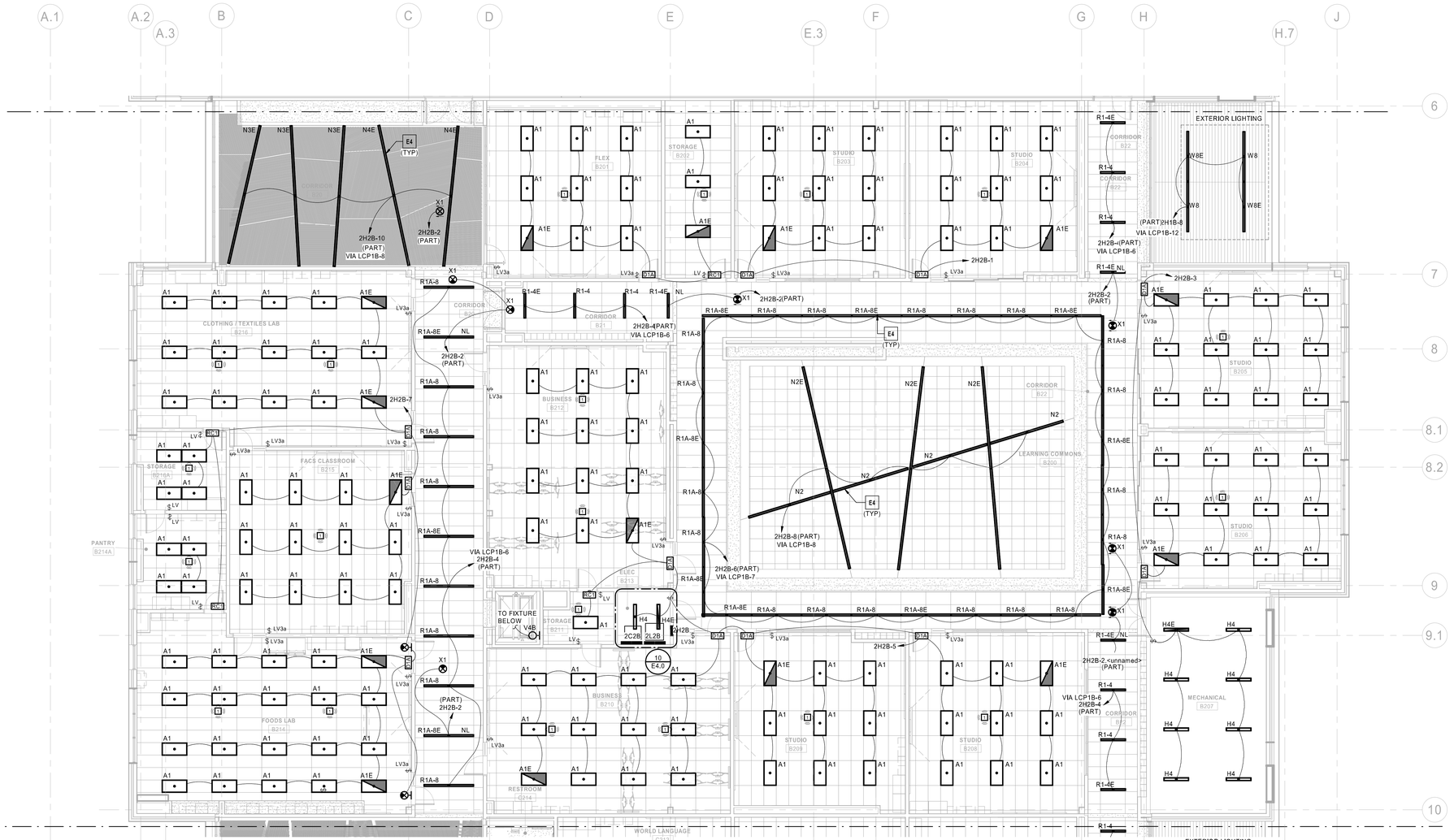
CURTIS A. OLDS

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR SECURITY.
3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

ELECTRICAL PLAN NOTES:

E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.



1 LIGHTING SECOND LEVEL RCP - AREA B
1/8" = 1'-0"

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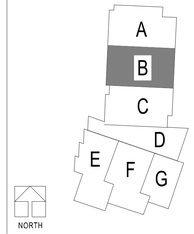
LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

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LIGHTING SECOND LEVEL RCP - AREA B

E1.2B

CURTIS A. OLDS

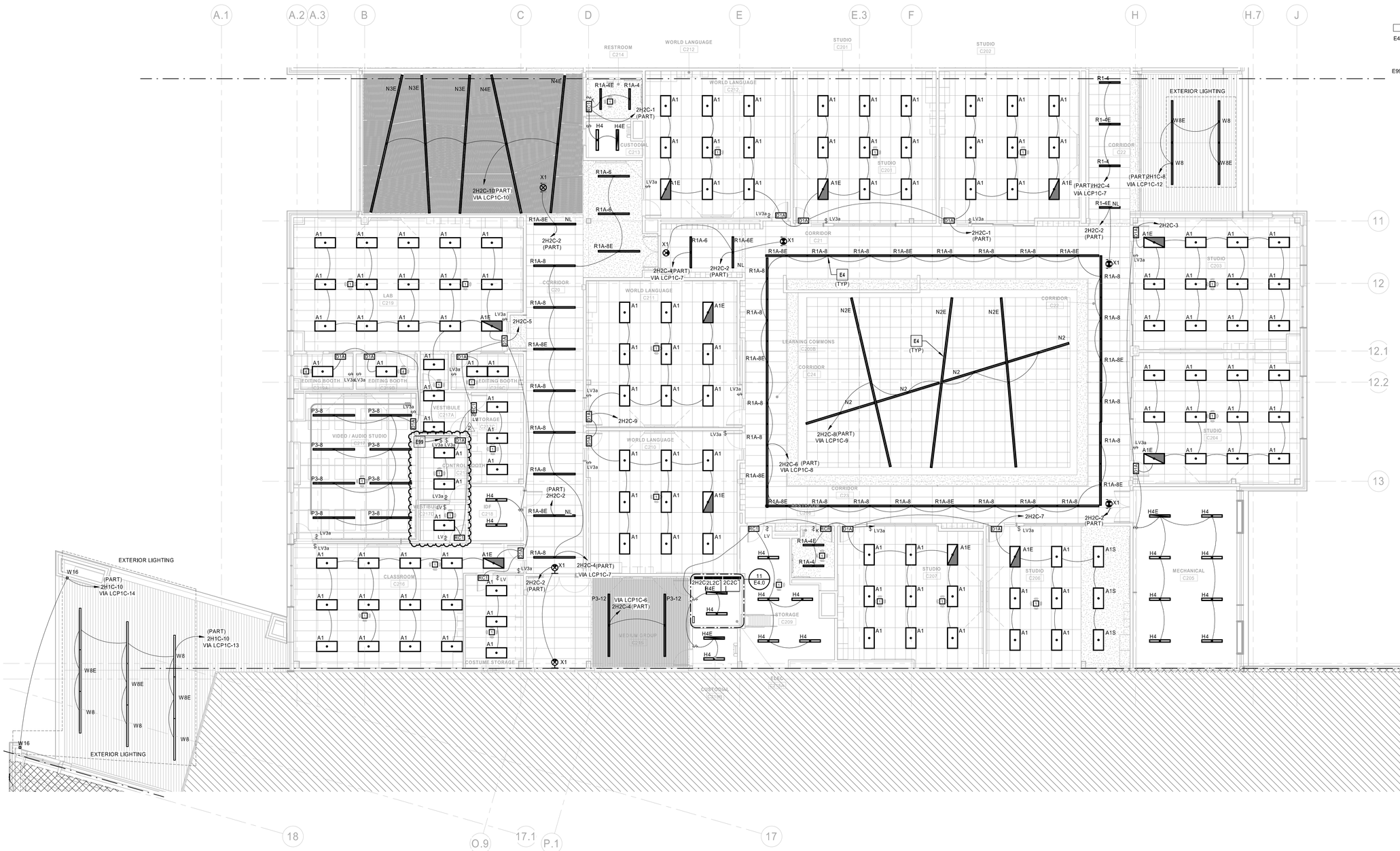
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☐ ELECTRICAL PLAN NOTES:

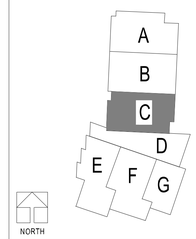
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E99 PROVIDE ADDITIONAL LOW VOLTAGE SWITCH IN CONTROL BOOTH C217B FOR CONTROL OF THE GENERAL LIGHTING IN VIDEO/AUDIO STUDIO C217.



1 LIGHTING SECOND LEVEL RCP - AREA C
1/8" = 1'-0"

KEY PLAN



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LIGHTING SECOND LEVEL RCP - AREA C

E1.2C

CURTIS A. OLDS

☐ ELECTRICAL PLAN NOTES:

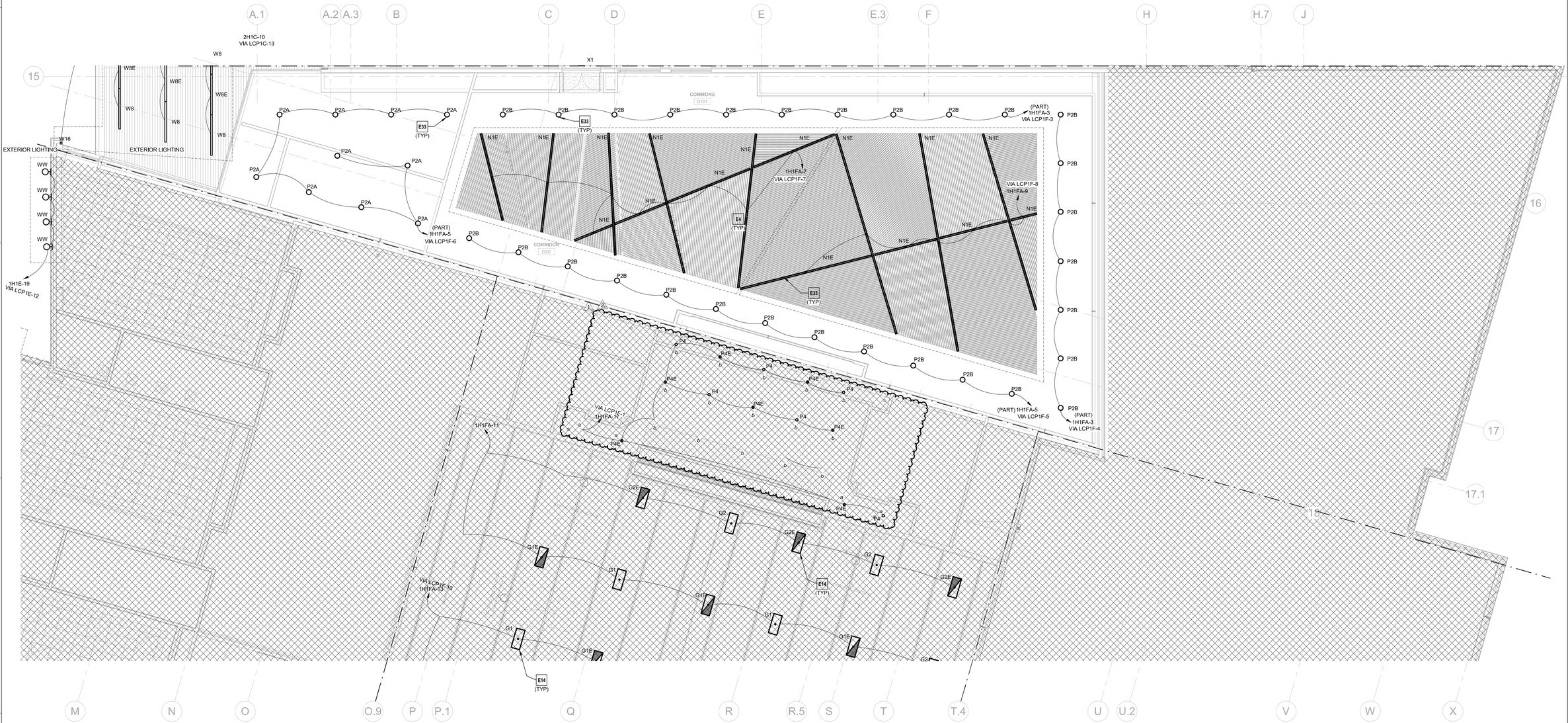
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E14 FACE OF GYMNASIUM LIGHT FIXTURES TO BE MOUNTED FLUSH WITH THE BOTTOM OF ROOF TRUSSES/CONCRETE TEES. RE DETAIL 2/E5.02 FOR FIXTURE MOUNTING DETAIL. COORDINATE EXACT LOCATION OF GYMNASIUM LIGHT FIXTURES WITH GYMNASIUM RELATED EQUIPMENT: BASKETBALL HOOPS, CURTAINS, SPEAKERS AND MECHANICAL DUCT WORK.

E33 COMMONS D101 LIGHTING TO BE ROUTED THROUGH NETWORKED LIGHTING CONTROL PANEL LCP1F. LIGHTING OPERATION IS TO BE CONTROLLED VIA TIME SWITCH CONTROLS AND MASTER LIGHTING CONTROL INTERFACE(S). PROVIDE AN ADDITIONAL INTERFACE FOR JUST THE COMMONS LIGHTING LOCATED ON PLATFORM D112.

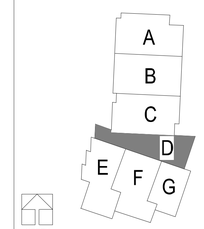
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1 LIGHTING SECOND LEVEL RCP - AREA D
1/8" = 1'-0"

KEY PLAN



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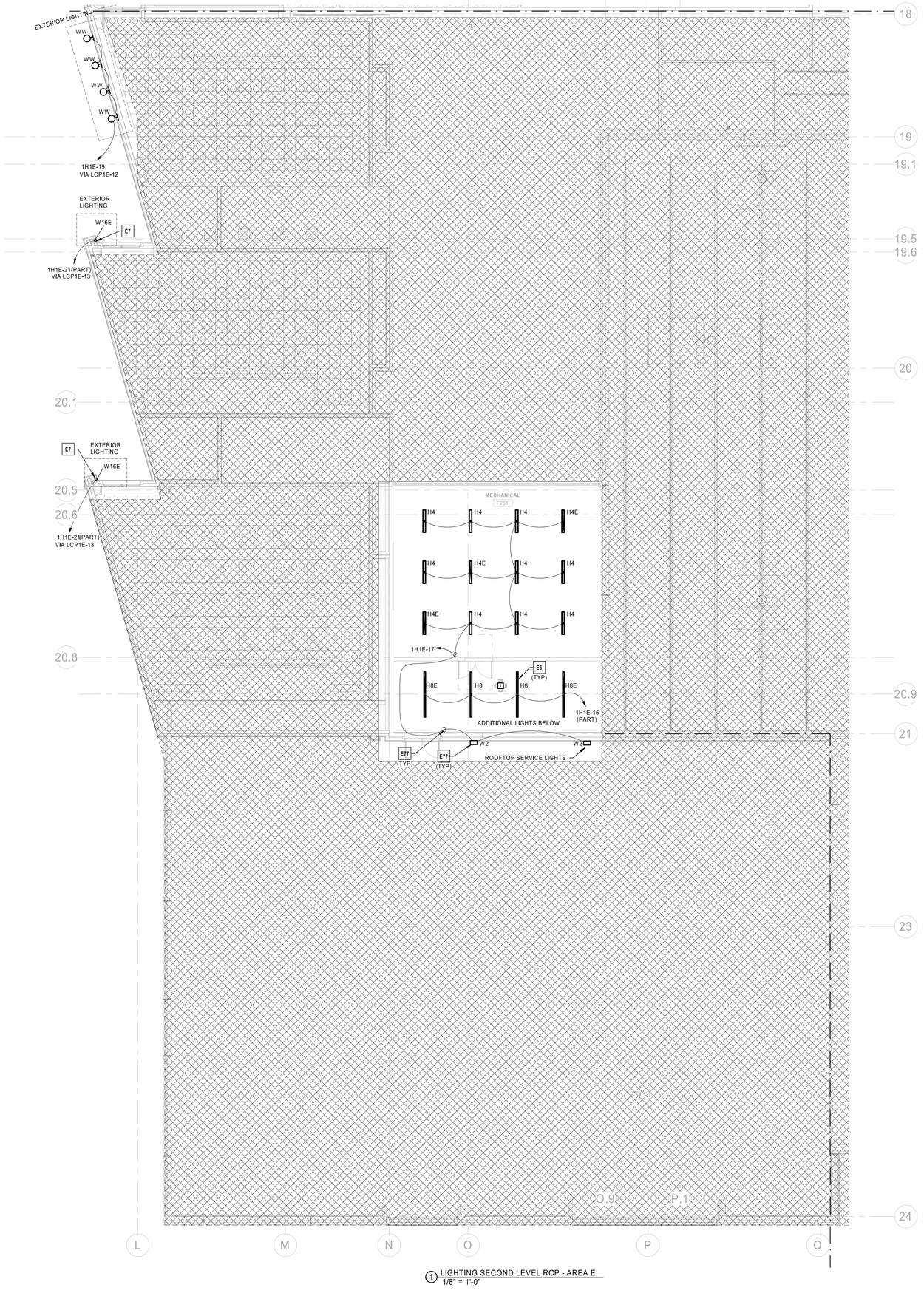
ADDENDUM 001	10/13/20
ADDENDUM 002	10/19/20

13-20102-00

LIGHTING SECOND LEVEL RCP - AREA D

E1.2D

CURTIS A. OLDS



1 LIGHTING SECOND LEVEL RCP - AREA E
1/8" = 1'-0"

LIGHTING CONTROLS INTENT:

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☐ ELECTRICAL PLAN NOTES:

E6 KEYED SWITCH, IN VESTIBULE F102 AND ASSOCIATED OCCUPANCY SENSORS, TO CONTROL LIGHTS IN VESTIBULE F102 AND LEVEL 1 & 2 ADJACENT STAIRWELL E1.GO6.

E7 EXTERIOR LIGHT FIXTURE TO BE FED VIA REMOTE 277 TO 24V DIMMABLE LED DRIVER (KELVIX HLV96 OR EQUIVALENT) AND PROVIDED WITH REMOTE INVERTER (ASSURANCE EMERGENCY LIGHTING SI-125 OR EQUIVALENT) TO PROVIDE BATTERY BACKED EMERGENCY POWER. INVERTER AND LED DRIVER TO BE MOUNTED INSIDE BUILDING ABOVE ACCESSIBLE CEILING IN MUSIC CLASSROOMS.

E77 LIGHTING ON ROOFTOP TO BE LOCALLY CONTROLLED VIA SWITCH AND IS INTENDED TO PROVIDE ILLUMINATION FOR AFTER HOURS SERVICING OF ELECTRICAL EQUIPMENT.

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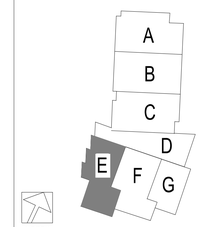
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10/8/20
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KEY PLAN



13-20102-00

LIGHTING SECOND LEVEL RCP - AREA E

E1.2E

CURTIS A. OLDS



1 LIGHTING SECOND LEVEL RCP - AREA F
1/8" = 1'-0"

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
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ELECTRICAL PLAN NOTES:

E10 LOW VOLTAGE LIGHT SWITCHES FOR COMPETITION GYM F101 TO PROVIDE ON/OFF AND DIMMING FUNCTIONALITY FOR GYMNASIUM LIGHT FIXTURES. LIGHT SWITCH TO INTERFACE WITH LIGHTING CONTROL PANEL LCP1F LOCATED IN PLATFORM STORAGE D112A. CIRCUITS FOR GYMNASIUM LIGHT FIXTURES TO BE ROUTED THROUGH DIMMING MODULES IN LIGHTING CONTROL PANEL LCP1F AS SHOWN.

E13 ICC 500 SHELTER GYM LIGHTING CONTROLS SHOWN ON LEVEL 1, DIMMABLE ROOM CONTROLLERS ARE SHOWN ON LEVEL 2.

E14 FACE OF GYMNASIUM LIGHT FIXTURES TO BE MOUNTED FLUSH WITH THE BOTTOM OF ROOF TRUSSES/CONCRETE TEES. RE DETAIL 2/E5.02 FOR FIXTURE MOUNTING DETAIL. COORDINATE EXACT LOCATION OF GYMNASIUM LIGHT FIXTURES WITH GYMNASIUM RELATED EQUIPMENT: BASKETBALL HOOPS, CURTAINS, SPEAKERS AND MECHANICAL DUCT WORK.

E32 STAGE AREA LIGHTING CONTROL SWITCH SHOWN ON E1.1F. LIGHTING TO BE ROUTED THROUGH LIGHTING CONTROL PANEL.

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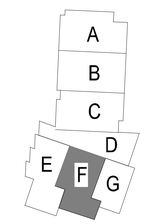
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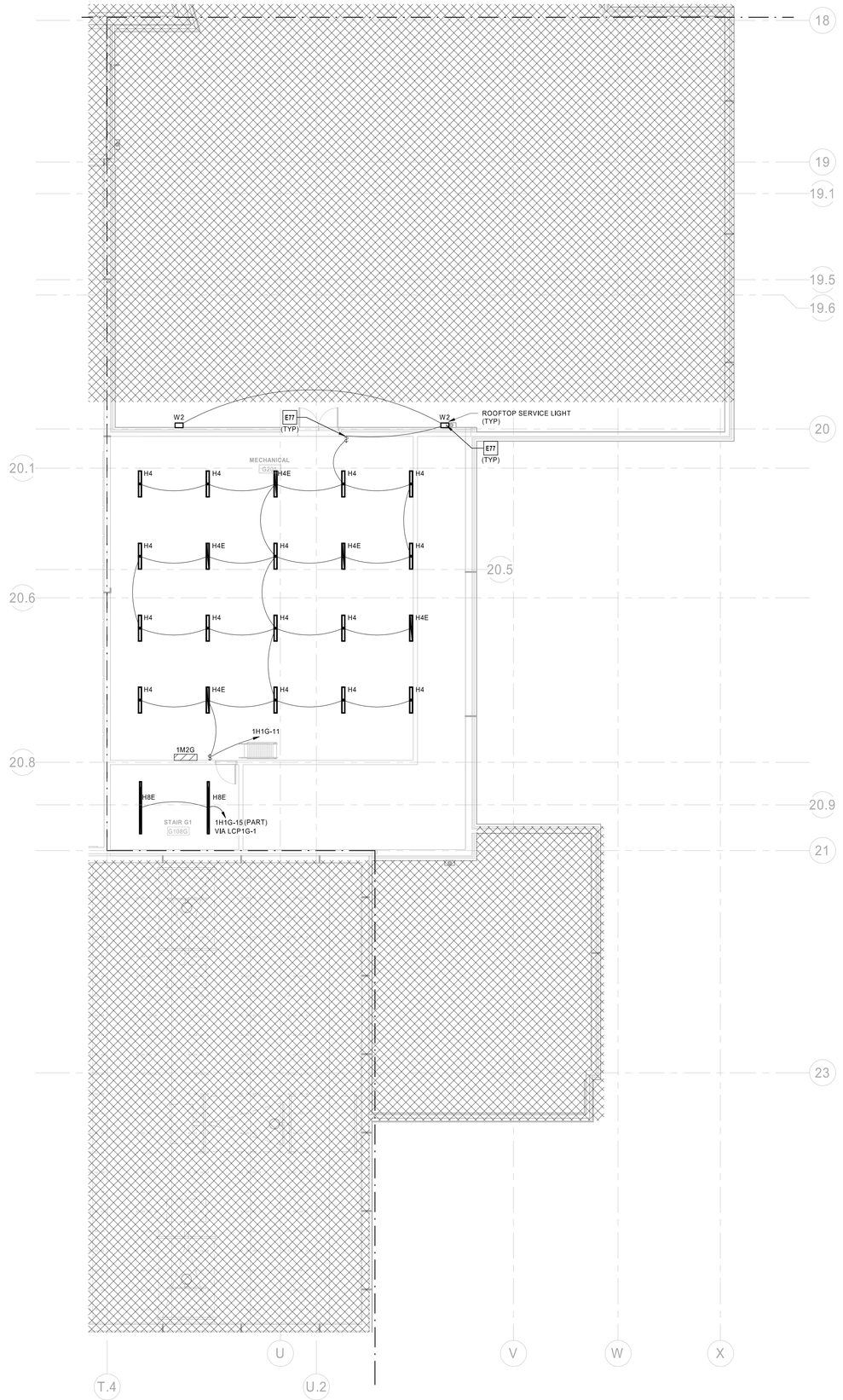


13-20102-00

LIGHTING SECOND LEVEL RCP - AREA F

E1.2F

CURTIS A. OLDS



1 LIGHTING SECOND LEVEL RCP - AREA G
1/8" = 1'-0"

LIGHTING CONTROLS INTENT:

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☐ ELECTRICAL PLAN NOTES:

E77 LIGHTING ON ROOFTOP TO BE LOCALLY CONTROLLED VIA SWITCH AND IS INTENDED TO PROVIDE ILLUMINATION FOR AFTER HOURS SERVICING OF ELECTRICAL EQUIPMENT.

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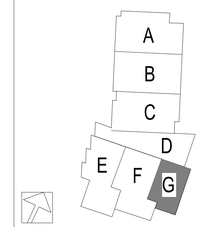
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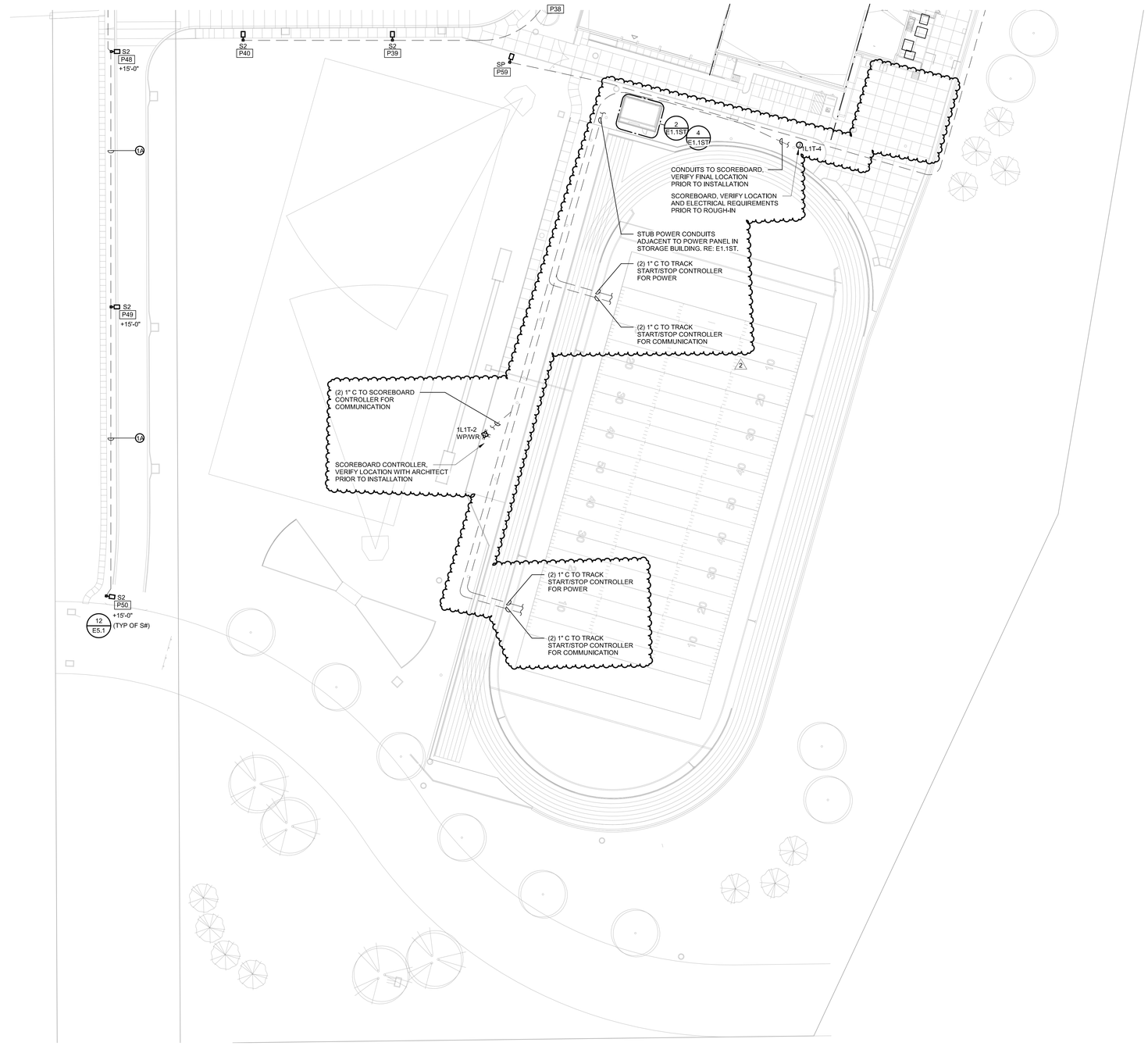


13-20102-00

LIGHTING SECOND LEVEL RCP - AREA G

E1.2G

CURTIS A. OLDS



1 ELECTRICAL SITE PLAN - SOUTH
1" = 40'-0"

POLE/MOUNTING HEIGHTS

FIXTURE	HEIGHT
SP	+12'-0"
S2	+20'-0"
S3	+20'-0"
S4	+20'-0"
S4-2	+20'-0"
S5	+20'-0"
W1,W1E	+12'-0"
W2,W2E	+12'-0"
W8,W8E	CANOPY CEILING MOUNTED
W16,W16E	VERTICAL WALL MOUNTING
WW	19'-7"

NOTE: THE ABOVE HEIGHTS ARE TYPICAL PER FIXTURE UNLESS NOTED OTHERWISE ON PLANS.

ELECTRCAL SHEET NOTES:

= SITE LIGHTING POLE DESIGNATION FOR VOLTAGE DROP CALCULATIONS ON THIS SHEET.

1. COORDINATE EXACT POLE LOCATION WITH ARCHITECT, CIVIL, AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. UNDERGROUND CONDUIT ROUTING SHOWN FOR REFERENCE AND VOLTAGE DROP CALCULATIONS. COORDINATE EXACT ROUTING WITH OTHER UTILITIES, TREES, AND OTHER OBSTACLES. IF ROUTING DIFFERS FROM SHOWN, PROVIDE REVISED VOLTAGE DROP CALCULATIONS FOR REVIEW PRIOR TO INSTALLATION.

SITE LIGHTING CIRCUIT LEGEND

(#) # INDICATES NUMBER OF CIRCUITS IN A CONDUIT
_ INDICATES CIRCUIT(S) CONDUCTOR(S) SIZE AND CONFIGURATION

(1) 1-1/2" PVC CONDUIT WITH PULLSTRING FOR FUTURE

(3P) (3) 2" PVC CONDUIT WITH PULLSTRING FOR FUTURE

(1A) 1-1/2" PVC CONDUIT WITH (2) #8 THWN CU. & (1) #8 GND.

(2A) 1-1/2" PVC CONDUIT WITH (4) #8 THWN CU & (1) #8 GND.

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ELECTRICAL SITE PLAN - AREA 3

E1.03

CURTIS A. OLDS

ELECTRICAL PLAN NOTES:

E12 CORD REEL, FLEXIBLE CEILING MOUNT, BLACK HOUSING, BLACK CORD, TRIPLE TAP RECEPTACLE, NO GREATER THAN 10 LBS, 12/3, 15A, HUBBELL HBLC401233TT OR APPROVED EQUIVALENT, COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER.

E23 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) CONDUIT FOR DATA, AND (1) CONDUIT FOR HDMI CONNECTIONS STUBBED UP AT FURNITURE. HDMI CONDUIT TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL AND MILL WORK PLANS REFER TO TECHNOLOGY PLANS FOR TECHNOLOGY CONDUIT SIZING AND INSTALLATION REQUIREMENTS.

E35 CONTRACTOR TO PROVIDE RECEPTACLE FOR TERSANO CHEMICAL DISPENSING SYSTEM IN JANITOR'S CLOSET. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.

E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO ACCOMMODATE EQUIPMENT LAYOUT.

E38 PRELIMINARY INFORMATION FOR SHOP FREESTANDING EQUIPMENT INDICATES 220V WILL BE NEEDED FOR EQUIPMENT. CONTRACTOR TO COORDINATE ALL ADDITIONAL INSTALLATION REQUIREMENTS FOR FREESTANDING SHOP EQUIPMENT INCLUDING BUT NOT LIMITED TO CIRCUIT BREAKER SIZE, CONDUCTOR SIZE, NUMBER OF CONDUCTORS, CONDUIT SIZE, J-BOX AND MUD RING SIZE, NEMA PLUG CONFIGURATION, CORD AND CORD DROP, REQUIREMENTS ROUGH-IN HEIGHT AND EXACT LOCATION(S).

E41 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER AND (1) CONDUIT FOR DATA TO FLOORBOX. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL PLANS. REFER TO TECHNOLOGY PLANS AND SPECIFICATIONS FOR TECHNOLOGY CONDUIT SIZING, FLOORBOX SPECIFICATIONS AND INSTALLATION REQUIREMENTS.

E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.

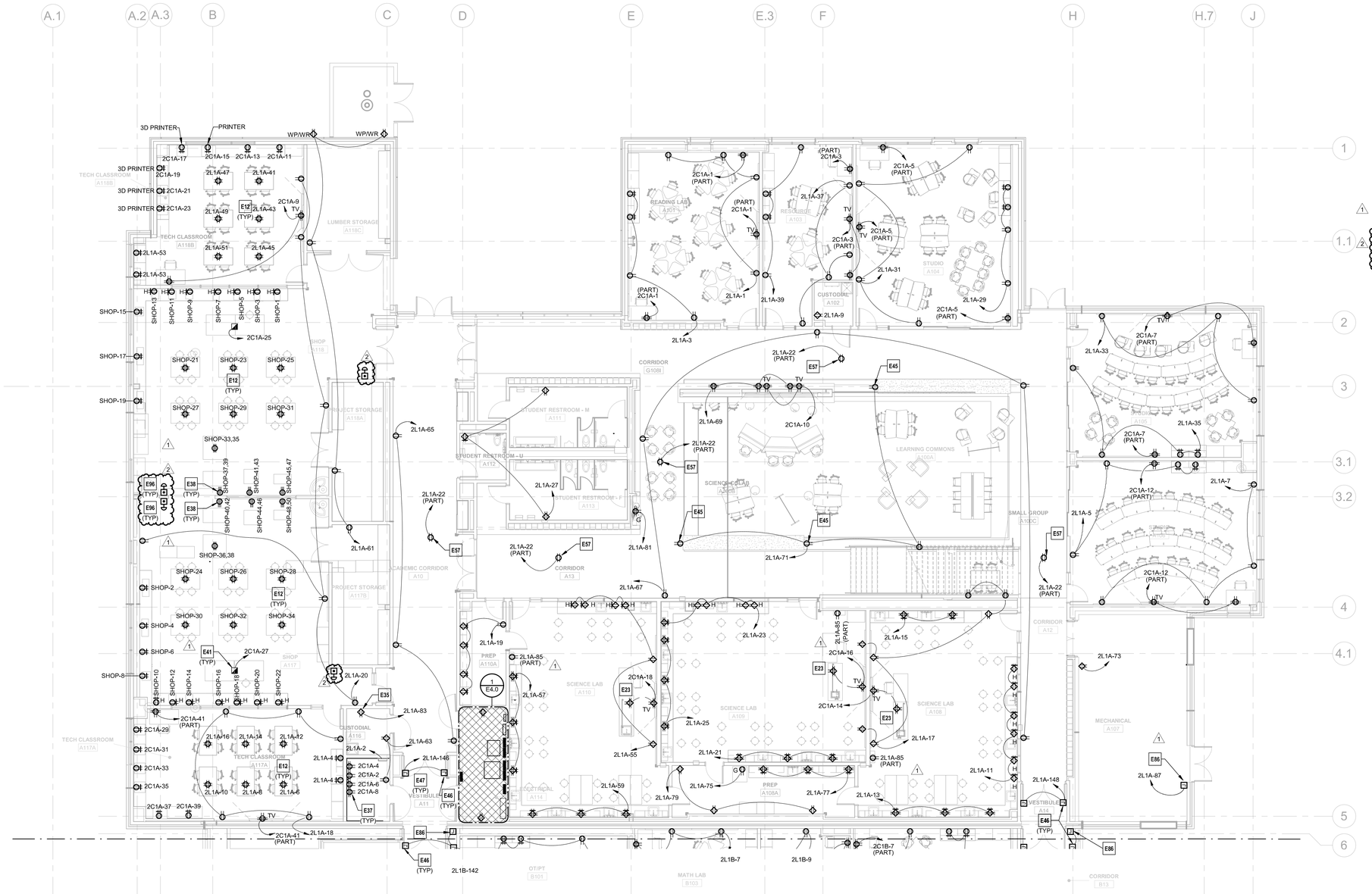
E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

E47 VESTIBULE IS SEPARATED FROM SURROUNDING BUILDING BY A 1-HOUR FIRE RATED PARTITION. CONTRACTOR TO SEAL PENETRATIONS WITH APPROPRIATE FIRE RATED SEALANT TO MAINTAIN FIRE RATING. CONFIRM ALL FIRE RATINGS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK.

E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

E96 PROVIDE EMERGENCY SHUTOFF BUTTON(S). CLEARLY LABELED, FOR THE PURPOSES OF INTERRUPTING POWER TO PANEL 'SHOP' V/A PANEL SHUNT-TRIP MAIN CIRCUIT BREAKER. COORDINATE LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.



1 POWER FIRST LEVEL PLAN - AREA A
1/8" = 1'-0"

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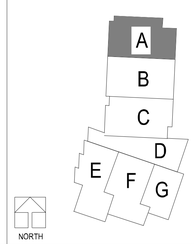
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POWER FIRST LEVEL PLAN - AREA A

E2.1A

CURTIS A. OLDS

ELECTRICAL PLAN NOTES:

E23 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) CONDUIT FOR DATA, AND (1) CONDUIT FOR HDMI CONNECTIONS STUBBED UP AT FURNITURE. HDMI CONDUIT TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL AND MILL WORK PLANS REFER TO TECHNOLOGY PLANS FOR TECHNOLOGY CONDUIT SIZING AND INSTALLATION REQUIREMENTS.

E44 CONTRACTOR TO COORDINATE EXACT ROUGH-IN LOCATIONS FOR FOOD PREPARATION AREAS WITH ARCHITECTURAL PLANS, MILLWORK PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.

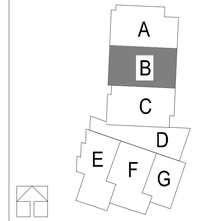
E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR. ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

1 POWER FIRST LEVEL PLAN - AREA B
1/8" = 1'-0"

KEY PLAN



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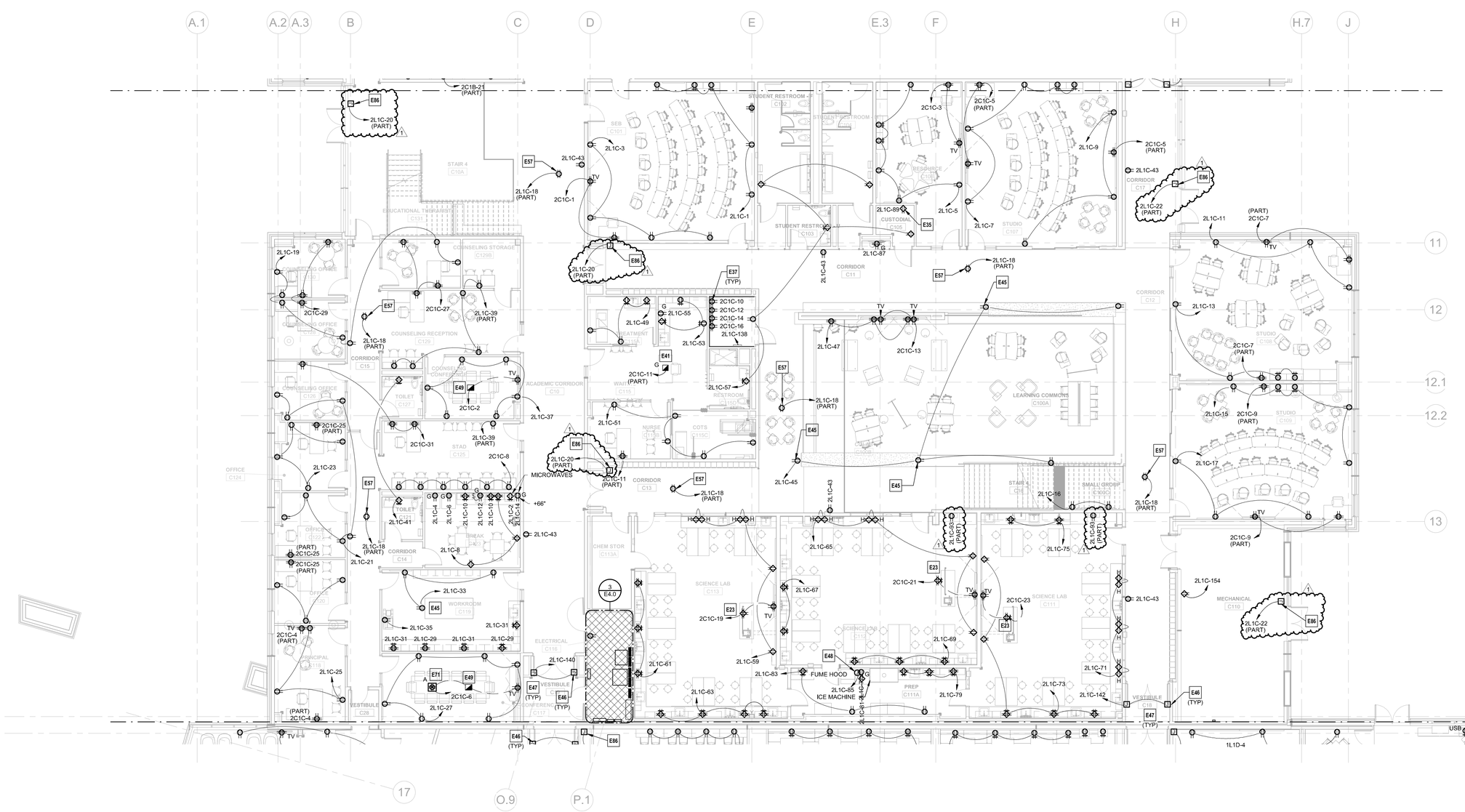
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POWER FIRST LEVEL PLAN - AREA B

E2.1B

CURTIS A. OLDS



1 POWER FIRST LEVEL PLAN - AREA C
1/8" = 1'-0"

ELECTRICAL PLAN NOTES:

E23 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) CONDUIT FOR DATA, AND (1) CONDUIT FOR HDMI CONNECTIONS STUBBED UP AT FURNITURE. HDMI CONDUIT TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL AND MILL WORK PLANS. REFER TO TECHNOLOGY PLANS FOR TECHNOLOGY CONDUIT SIZING AND INSTALLATION REQUIREMENTS.

E35 CONTRACTOR TO PROVIDE RECEPTACLE FOR TERSANO CHEMICAL DISPENSING SYSTEM IN JANITOR'S CLOSET. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.

E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO ACCOMMODATE EQUIPMENT LAYOUT.

E41 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER AND (1) CONDUIT FOR DATA TO FLOORBOX. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL PLANS. REFER TO TECHNOLOGY PLANS AND SPECIFICATIONS FOR TECHNOLOGY CONDUIT SIZING, FLOORBOX SPECIFICATIONS AND INSTALLATION REQUIREMENTS.

E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

E47 VESTIBULE IS SEPARATED FROM SURROUNDING BUILDING BY A 1-HOUR FIRE RATED PARTITION. CONTRACTOR TO SEAL PENETRATIONS WITH APPROPRIATE FIRE RATED SEALANT TO MAINTAIN FIRE RATING. CONFIRM ALL FIRE RATINGS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK.

E48 CONTRACTOR TO COORDINATE EXACT ROUGH-IN LOCATION AND INSTALLATION REQUIREMENTS FOR FUME HOOD WITH MANUFACTURER'S SPECIFICATIONS AND MECHANICAL CONTRACTOR. PRIOR TO BEGINNING ANY WORK, PROVIDE ELECTRICAL CONNECTION(S) AND CONTROL WIRING PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

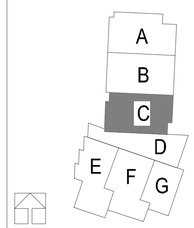
E49 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) CONDUIT FOR DATA AND (1) CONDUIT FOR HDMI TO FLOORBOX. HDMI CONDUIT TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL PLANS. REFER TO TECHNOLOGY PLANS AND SPECIFICATIONS FOR TECHNOLOGY CONDUIT SIZING, FLOORBOX SPECIFICATIONS AND INSTALLATION REQUIREMENTS.

E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

E71 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER TO FLOORBOX. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF IN-WALL CONDUIT STUB-UP WITH ARCHITECTURAL PLANS. REFER TO ELECTRICAL SPECIFICATIONS FOR POWER ONLY FLOORBOX SPECIFICATIONS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

KEY PLAN



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POWER FIRST LEVEL PLAN - AREA C

E2.1C

CURTIS A. OLDS

ELECTRICAL PLAN NOTES:

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

E59 RECEPTACLE TO BE INSTALLED WOOD PANEL BELOW BENCH SEATING. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR ROUGH-IN.

E61 POWER CONNECTION FOR PROJECTOR SCREEN MOTOR. COORDINATE FINAL LOCATION WITH ARCHITECT AND TECHNOLOGY PLANS. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND TECHNOLOGY PLAN REQUIREMENTS PRIOR TO ROUGH-IN.

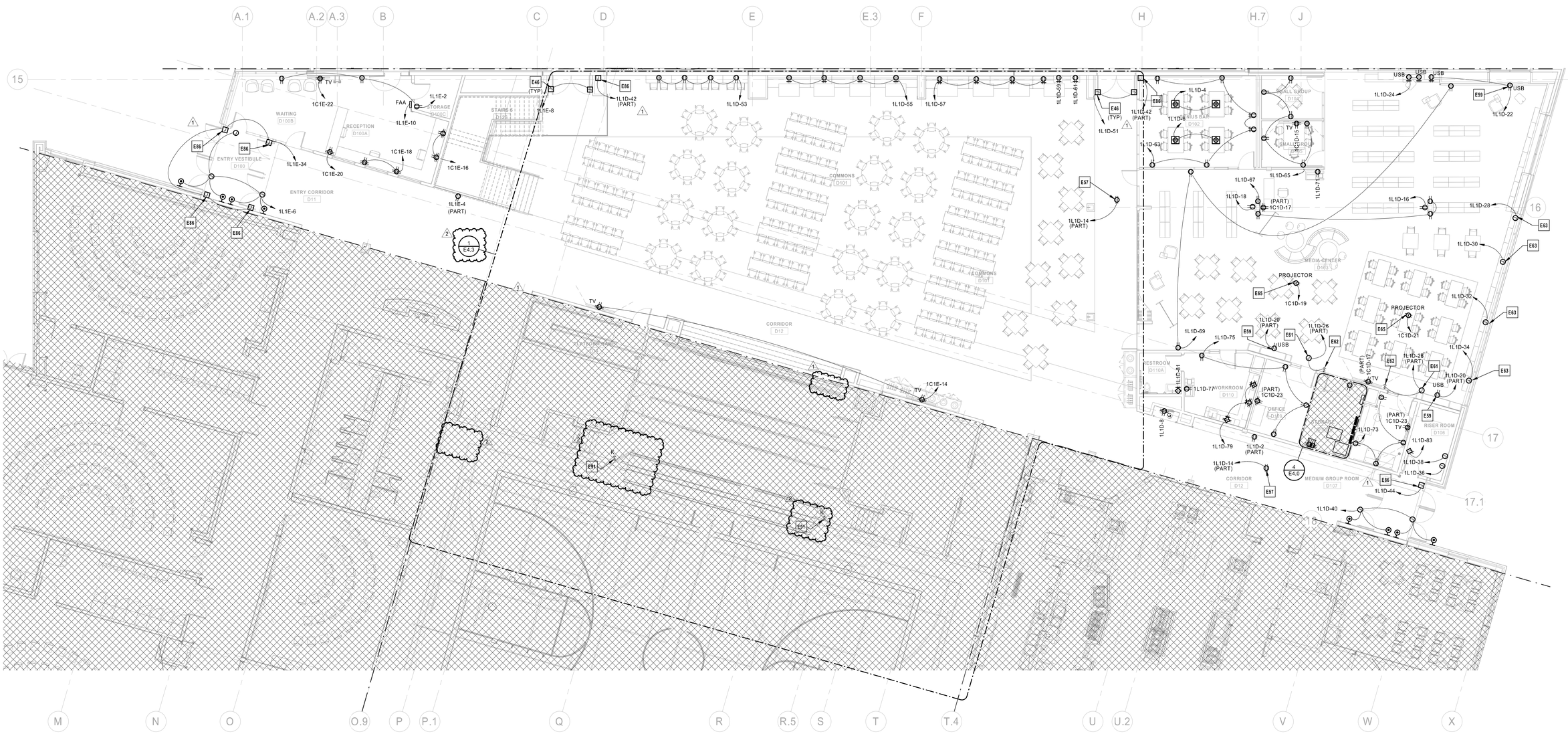
E62 CONTROL SWITCH TO OPERATE PROJECTOR SCREEN MOTOR. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND TECHNOLOGY PLAN REQUIREMENTS PRIOR TO ROUGH-IN.

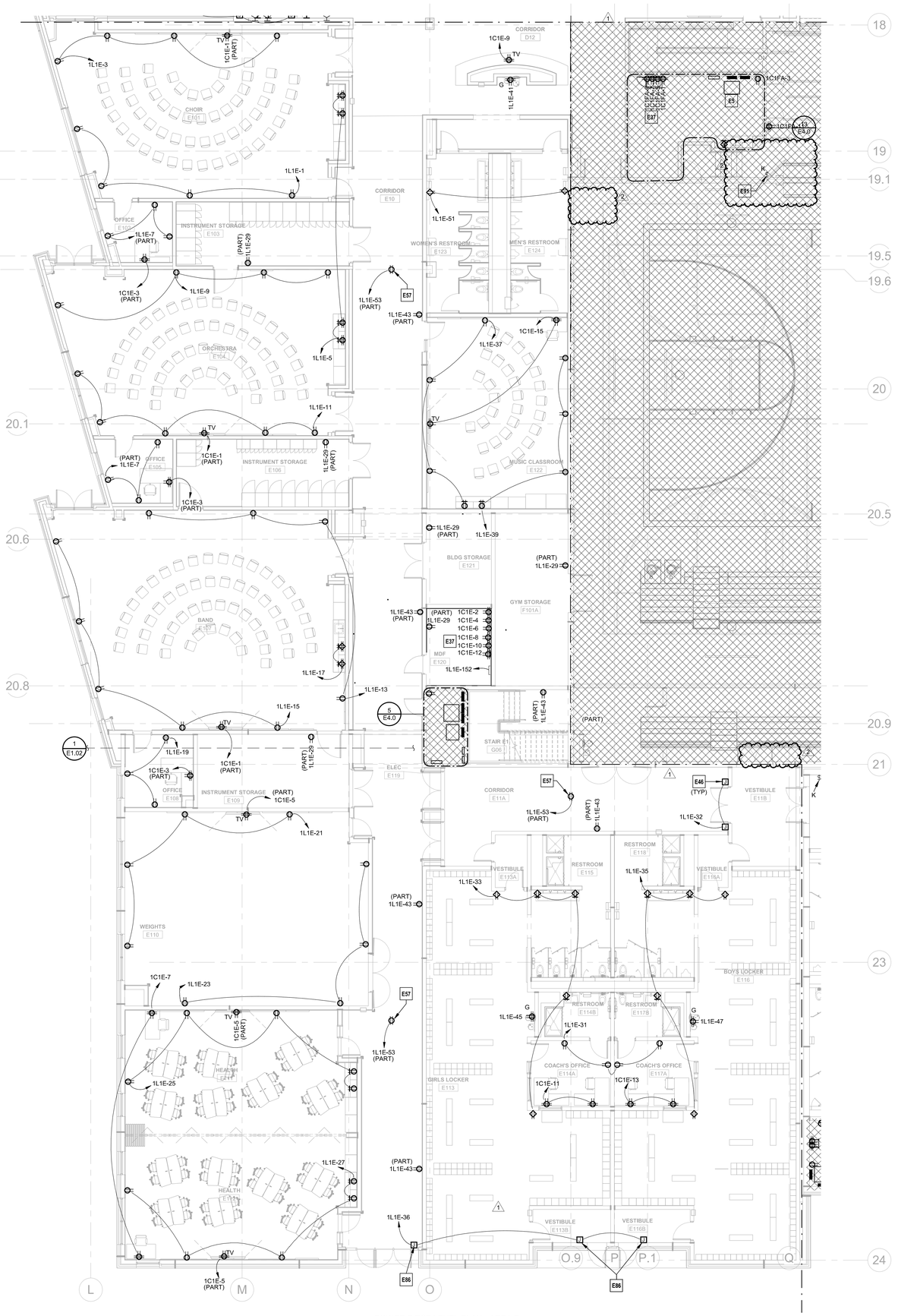
E63 CONTRACTOR TO ROUGH-IN FOR POWER AND CONTROLS FOR MOTORIZED BLINDS. COORDINATE EXACT NUMBER OF CONNECTIONS, NUMBER OF CIRCUITS NEEDED, AND EXACT ROUGH-IN WITH BLINDS MANUFACTURER'S SPECIFICATIONS. CIRCUIT IS TO BE ROUTED THROUGH RELAY PANEL IN ROOM D106. REFER TO DETAIL 4 ON SHEET E4.0 FOR MORE INFORMATION.

E65 COORDINATE FINAL LOCATION OF PROJECTOR WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE INSTALLATION AND DEVICE FINISH WITH CEILING.

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

1 E91 COORDINATE EXACT LOCATION OF EQUIPMENT MANUFACTURER PROVIDED SKYFOLD WALL LOW VOLTAGE OPEN/CLOSE KEYED SWITCHES WITH ARCHITECT PRIOR TO BEGINNING ANY WORK. RE: DETAIL 7/E502


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A.2
A.3
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E.3
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O.9
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T.4
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U.2
V
W
X
WAITING D100B
RECEPTION D100A
ENTRY VESTIBULE D100
ENTRY CORRIDOR D11
STORAGE D100C
STAIRS 5 D125
COMMONS D101
CORRIDOR D12
SMALL GROUP D104
MUS BAR D102
SMALL GROUP D105
MEDIA CENTER D103
RESTROOM D110A
WORKROOM D110
OFFICE D109
STORAGE D108
RISER ROOM D106
MEDIUM GROUP ROOM D107
TV
PROJECTOR
USB
FAA
1C1E-22
1C1E-2
1C1E-10
1C1E-18
1C1E-20
1C1E-16
1C1E-34
1C1E-6
1C1E-4 (PART)
1C1E-8
1C1E-14
1L1D-42 (PART)
1L1D-53
1L1D-55
1L1D-57
1L1D-58
1L1D-61
1L1D-51
1L1D-63
1L1D-4
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1L1D-67
1L1D-65
1L1D-71
1L1D-18
1C1D-17 (PART)
1L1D-14 (PART)
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1L1D-30
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1C1D-19
1C1D-21
1L1D-32
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1L1D-75
1L1D-20 (PART)
1L1D-26 (PART)
1L1D-34
1L1D-81
1L1D-77
1C1D-23 (PART)
1L1D-8
1L1D-79
1L1D-2 (PART)
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1 POWER FIRST LEVEL PLAN - AREA E
1/8" = 1'-0"

ELECTRICAL PLAN NOTES:

E5 TRANSFORMER TO BE SUSPENDED. RE: 2/E5.01 FOR SUSPENDED MOUNTING DETAIL. WHERE SHOWN ADJACENT TO TRANSFORMER, THIS TRANSFORMER SHALL BE SUSPENDED ABOVE.

E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO ACCOMMODATE EQUIPMENT LAYOUT.

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

E91 COORDINATE EXACT LOCATION OF EQUIPMENT MANUFACTURER PROVIDED SKYFOLD WALL LOW VOLTAGE OPEN/CLOSE KEYED SWITCHES WITH ARCHITECT PRIOR TO BEGINNING ANY WORK. RE: DETAIL 7/E502

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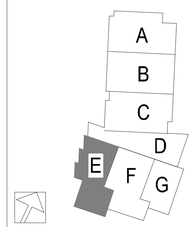
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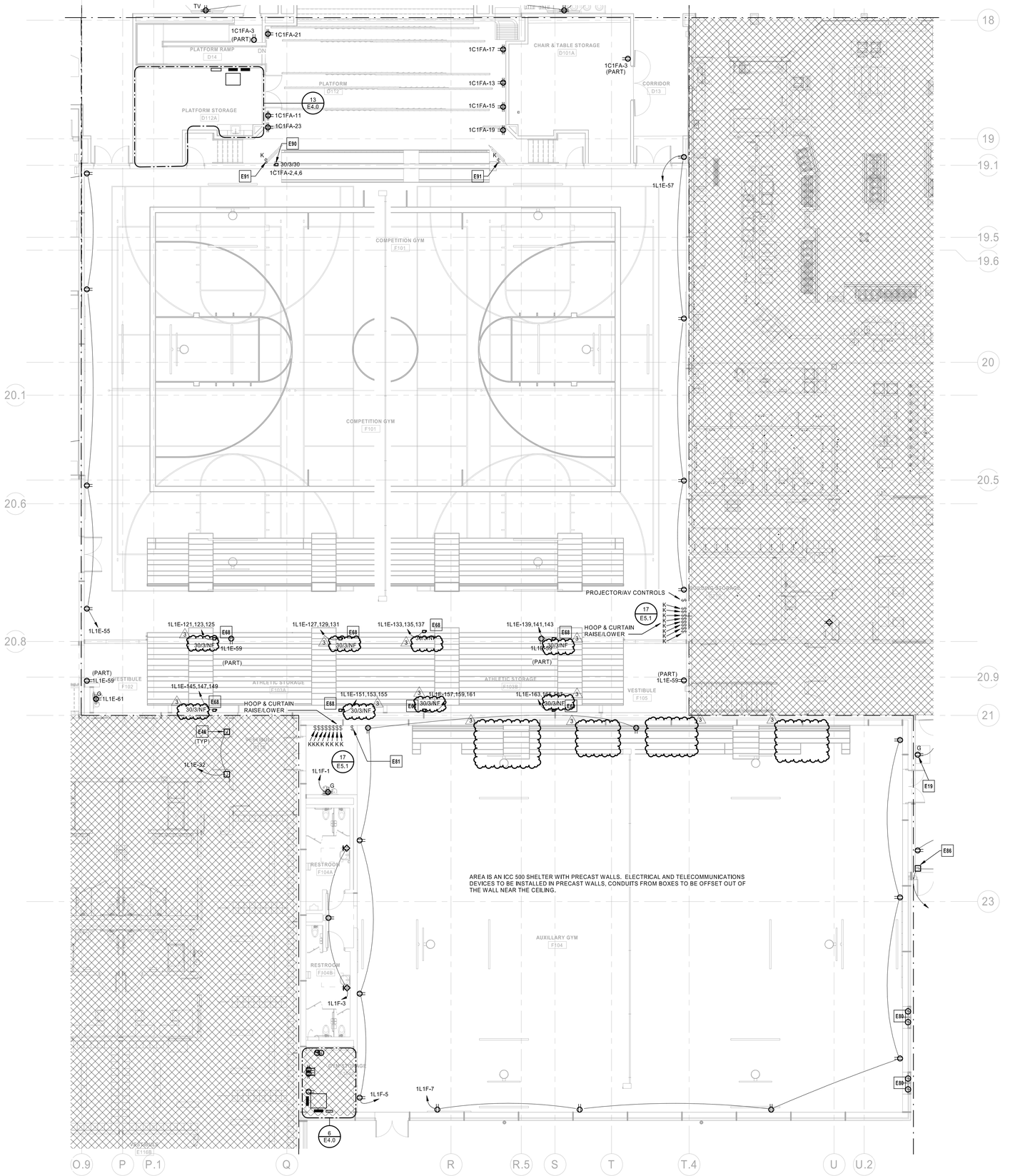


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POWER FIRST LEVEL PLAN - AREA E

E2.1E

CURTIS A. OLDS



1 POWER FIRST LEVEL PLAN - AREA F
1/8" = 1'-0"

PRECAST ROUGH-IN NOTES:

1. COORDINATE ALL DEVICE LOCATIONS PRIOR TO BEGINNING ANY WORK. DEVICE LOCATIONS SHOULD BE ADJUSTED SO THAT THEY DO NOT FALL ON PRECAST SEAMS.
2. GYMNASIUM IS PRE-CAST CONCRETE CONSTRUCTION AND TO BE ROUGH-IN BY ELECTRICAL CONTRACTOR. ALL DEVICE FINISH RINGS SHALL BE FLUSH WITH THE SURFACE OF THE CONCRETE.
3. CONDUIT ROUGH-INS FOR ELECTRICAL LIGHTING AND POWER, EXIT SIGNS, FIRE ALARM, TELECOMMUNICATIONS, AUDIO-VISUAL, SCOREBOARD, AND DOOR SECURITY EQUIPMENT SHALL BE ROUTED VERTICALLY IN PRECAST WALL AND STUBBED INTO GYMNASIUM NEAR CEILING (BY OTHERS) FOR CONNECTION(S) TO WIRE WAYS AND/OR JUNCTION BOXES.
4. EXTERIOR LIGHT FIXTURE CIRCUITS TO BE ROUTED TO LIGHTING CONTROL PANEL.
5. COORDINATE EXACT ROUGH-IN LOCATIONS FOR OTHER DISCIPLINES. REFER TO MECHANICAL PLANS FOR MECHANICAL CONTROLS DEVICE ROUGH-IN LOCATIONS AND REQUIREMENTS. REFER TO FIRE PROTECTION PLANS FOR FIRE PROTECTION DEVICE. REFER TO TECHNOLOGY PLANS FOR AUDIO VISUAL AND TELECOMMUNICATIONS DEVICE ROUGH-IN LOCATIONS AND REQUIREMENTS. REFER TO SECURITY PLANS FOR SECURITY IN DEVICE ROUGH-IN LOCATIONS AND REQUIREMENTS.
6. SCORE BOARD ROUGH-IN REQUIREMENTS TO BE COORDINATED WITH SCOREBOARD MANUFACTURER'S SPECIFICATIONS AND ARCHITECT. PROVIDE 1" CONDUIT FOR CONTROLS.
7. REFER TO ELECTRICAL NOTES FOR ADDITIONAL

ELECTRICAL PLAN NOTES:

E19 POWER CONNECTION FOR OWNER PROVIDED EQUIPMENT. CONFIRM REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

E68 CONTRACTOR TO PROVIDE POWER FOR MOTORIZED BLEACHERS. COORDINATE EQUIPMENT SELECTION AND CONTROLS LOCATION WITH ARCHITECT. COORDINATE NUMBER OF CONNECTIONS AND INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

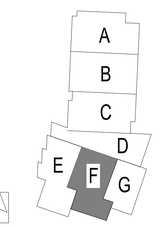
E80 APPROXIMATE LOCATION OF LOW VOLTAGE ROUGH-IN FOR WALL MOUNTED ICC 500 SHELTER LOUVERS. CONTRACTOR TO PROVIDE CONDUITS, AND JUNCTION BOXES FOR EQUIPMENT CONNECTIONS. COORDINATE QUANTITY OF CONDUITS AND JUNCTION BOXES, ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH MECHANICAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK. CONDUITS TO BE INSTALLED IN PRECAST WALL AND BOX TO BE MOUNTED UNDER LOUVER

E81 APPROXIMATE LOCATION OF LOW VOLTAGE SWITCH FOR MANUAL OPERATION OF GYMNASIUM LOUVERS. COORDINATE EQUIPMENT SELECTION, EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH MECHANICAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK

E90 SKYFOLD MOTORIZED PARTITION MOTOR SIZE HAS NOT BEEN PROVIDED TO ENGINEER. CONTRACTOR TO COORDINATE EXACT EQUIPMENT SELECTION AND ELECTRICAL INFORMATION WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND PROVIDE ALTERATIONS TO WIRE SIZE, BREAKER SIZE, FUSED DISCONNECT AND FUSES SIZES AS NEEDED. COORDINATE ALL INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. RE: DETAIL 7/E502

E91 COORDINATE EXACT LOCATION OF EQUIPMENT MANUFACTURER PROVIDED SKYFOLD WALL LOW VOLTAGE OPEN/CLOSE KEYED SWITCHES WITH ARCHITECT PRIOR TO BEGINNING ANY WORK. RE: DETAIL 7/E502

KEY PLAN



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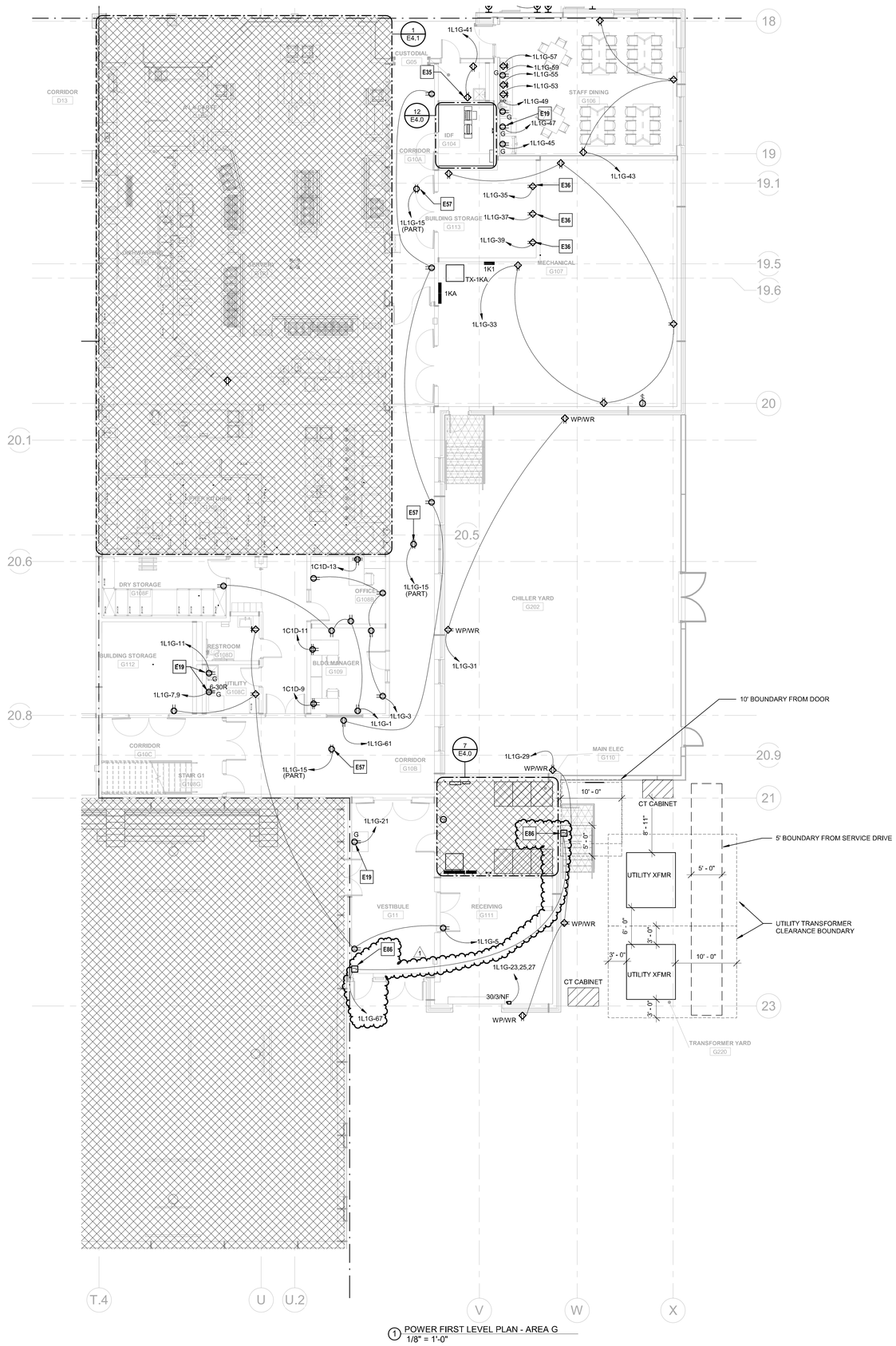
1	ADDENDUM 001	10/13/20
2	ADDENDUM 002	10/19/20
3	ASI 003	12/02/20

13-20102-00

POWER FIRST LEVEL PLAN - AREA F

E2.1F

CURTIS A. OLDS



1 POWER FIRST LEVEL PLAN - AREA G
1/8" = 1'-0"

ELECTRICAL PLAN NOTES:

E19 POWER CONNECTION FOR OWNER PROVIDED EQUIPMENT. CONFIRM REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

E35 CONTRACTOR TO PROVIDE RECEPTACLE FOR TERSANO CHEMICAL DISPENSING SYSTEM IN JANITOR'S CLOSET. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.

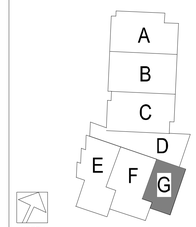
E36 CONTRACTOR TO PROVIDE ROUGH-IN FOR FLOOR CLEANING EQUIPMENT CHARGING STATIONS. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.

E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

1

KEY PLAN



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POWER FIRST LEVEL PLAN - AREA G

E2.1G

CURTIS A. OLDS

ELECTRICAL PLAN NOTES:

E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO ACCOMMODATE EQUIPMENT LAYOUT.

E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.

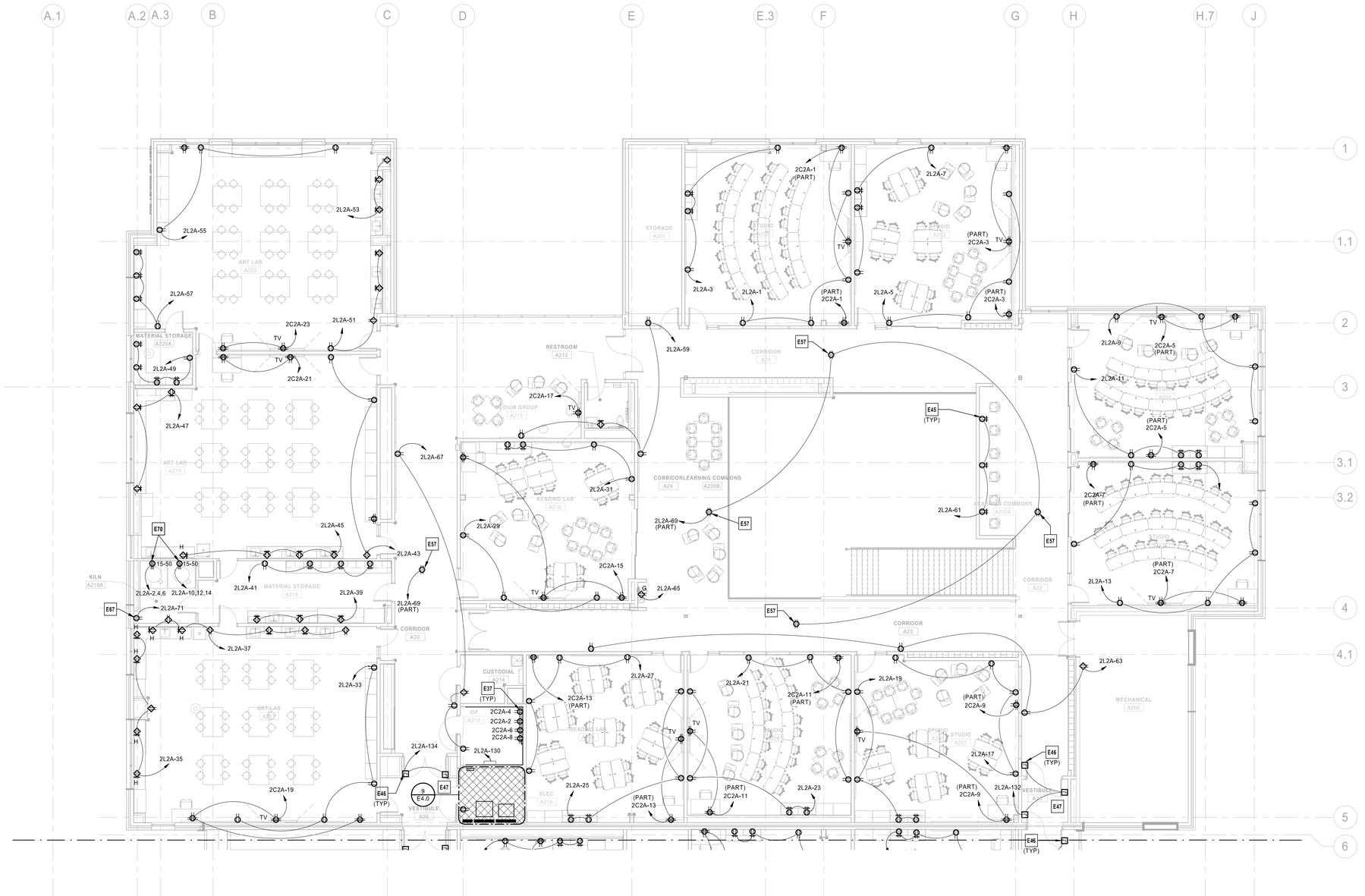
E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR. ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

E47 VESTIBULE IS SEPARATED FROM SURROUNDING BUILDING BY A 1-HOUR FIRE RATED PARTITION. CONTRACTOR TO SEAL PENETRATIONS WITH APPROPRIATE FIRE RATED SEALANT TO MAINTAIN FIRE RATING. CONFIRM ALL FIRE RATINGS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK.

E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

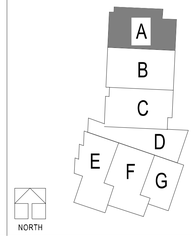
E67 POWER CONNECTION FOR KILN VENT FAN. COORDINATE FINAL LOCATION WITH ARCHITECT AND MANUFACTURER.

E70 POWER CONNECTION FOR KILN. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.



1 POWER SECOND LEVEL PLAN - AREA A
1/8" = 1'-0"

KEY PLAN



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POWER SECOND LEVEL PLAN - AREA A

E2.2A

CURTIS A. OLDS

☐ ELECTRICAL PLAN NOTES:

E12 CORD REEL, FLEXIBLE CEILING MOUNT, BLACK HOUSING, BLACK CORD, TRIPLE TAP RECEPTACLE, NO GREATER THAN 10 LBS, 12/3, 15A, HUBBELL HBLC40123TT OR APPROVED EQUIVALENT, COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER.

E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

E50 BUSINESS CLASSROOM COMPUTER FURNITURE REQUIREMENTS ARE NOT FINALIZED. DESIGN IS SUBJECT TO CHANGE. INITIAL DESIGN IS (3) QUAD RECEPTACLES MOUNTED AT STANDARD OUTLET HEIGHT FOR COMPUTER POWER AND (1) WALL MOUNTED TV. CONFIRM POWER REQUIREMENTS AND ROUGH-IN LOCATIONS WITH FURNITURE PLANS AND ARCHITECTURAL DRAWINGS PRIOR TO BEGINNING ANY WORK.

E51 MOUNT SWITCH FOR FOODS LAB GARBAGE DISPOSALS HORIZONTALLY IN BACKSPLASH

E52 CONTRACTOR TO COORDINATE NUMBER OF CORD REELS NEEDED FOR CLOTHING/TEXTILE LAB STUDENT DESKS.

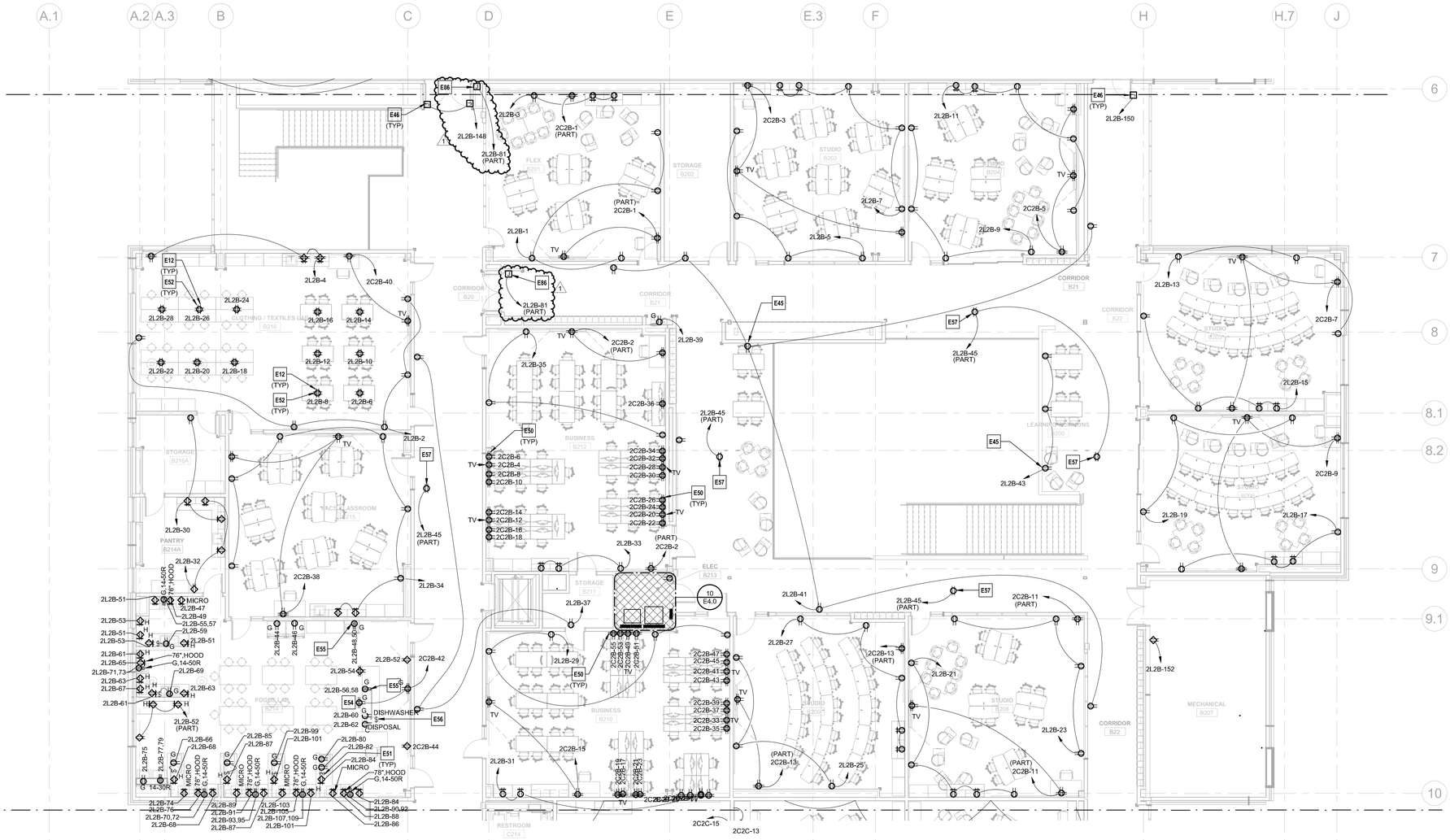
E54 CONTRACTOR TO COORDINATE ISLAND EQUIPMENT SELECTION AND ELECTRICAL REQUIREMENTS, LAYOUT AND EXACT CONDUIT STUB UP LOCATIONS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS PRIOR TO BEGINNING ANY WORK.

E55 COOKING APPLIANCE EQUIPMENT SELECTION HAS NOT BEEN MADE AVAILABLE TO ENGINEER. CONTRACTOR TO CONFIRM EQUIPMENT ELECTRICAL REQUIREMENTS (OCPD, BREAKER SIZE, # OF CONDUCTORS, J-BOX SIZE, CONDUIT SIZE AND CONNECTION TYPE). IF EQUIPMENT IS CORD AND PLUG PROVIDE GFCI CIRCUIT BREAKER AS INDICATED. IF EQUIPMENT IS HARDWIRED GFCI PROTECTION IS NOT REQUIRED.

E56 CONTRACTOR TO PROVIDE SWITCH FOR DISPOSAL V/A SURFACE MOUNTED CONDUIT AND J-BOX WITH INDUSTRIAL STYLE COVER. SWITCH TO BE LOCATED UNDER THE SINK NEAR MILLWORK DOORS OCCUPANT CONVENIENCE.

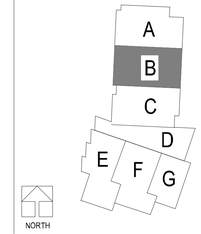
E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.



1 POWER SECOND LEVEL PLAN - AREA B
1/8" = 1'-0"

KEY PLAN



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POWER SECOND LEVEL PLAN - AREA B

E2.2B

CURTIS A. OLDS

ELECTRICAL PLAN NOTES:

E35 CONTRACTOR TO PROVIDE RECEPTACLE FOR TERSANO CHEMICAL DISPENSING SYSTEM IN JANITOR'S CLOSET. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.

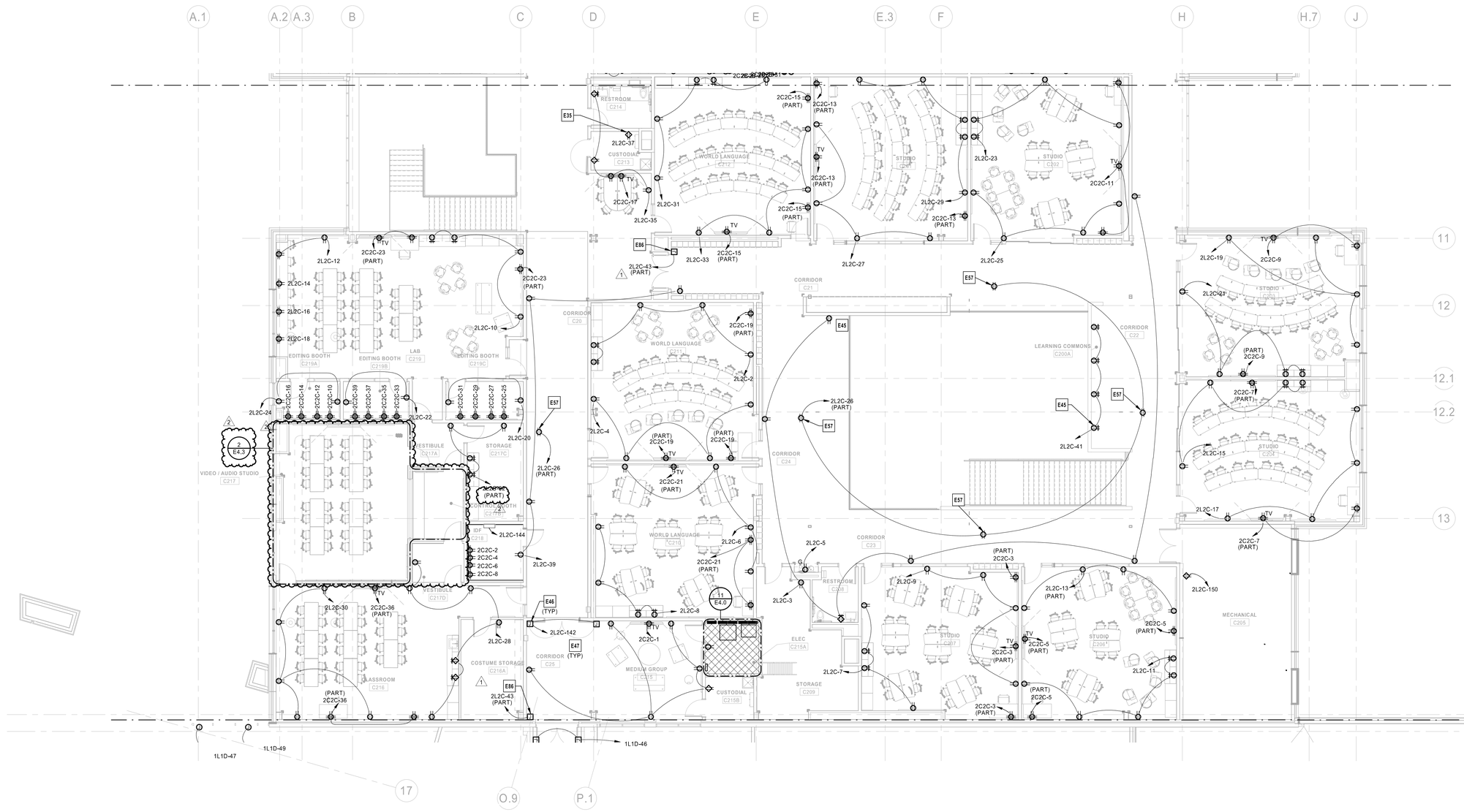
E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS AS NEEDED FOR LOW VOLTAGE CONNECTIONS.

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR. ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.

E47 VESTIBULE IS SEPARATED FROM SURROUNDING BUILDING BY A 1-HOUR FIRE RATED PARTITION. CONTRACTOR TO SEAL PENETRATIONS WITH APPROPRIATE FIRE RATED SEALANT TO MAINTAIN FIRE RATING. CONFIRM ALL FIRE RATINGS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK.

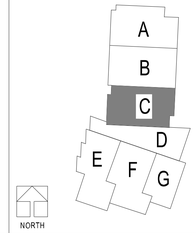
E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.



1 POWER SECOND LEVEL PLAN - AREA C
1/8" = 1'-0"

KEY PLAN



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ADDENDUM 002	10/19/20

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POWER SECOND LEVEL PLAN - AREA C

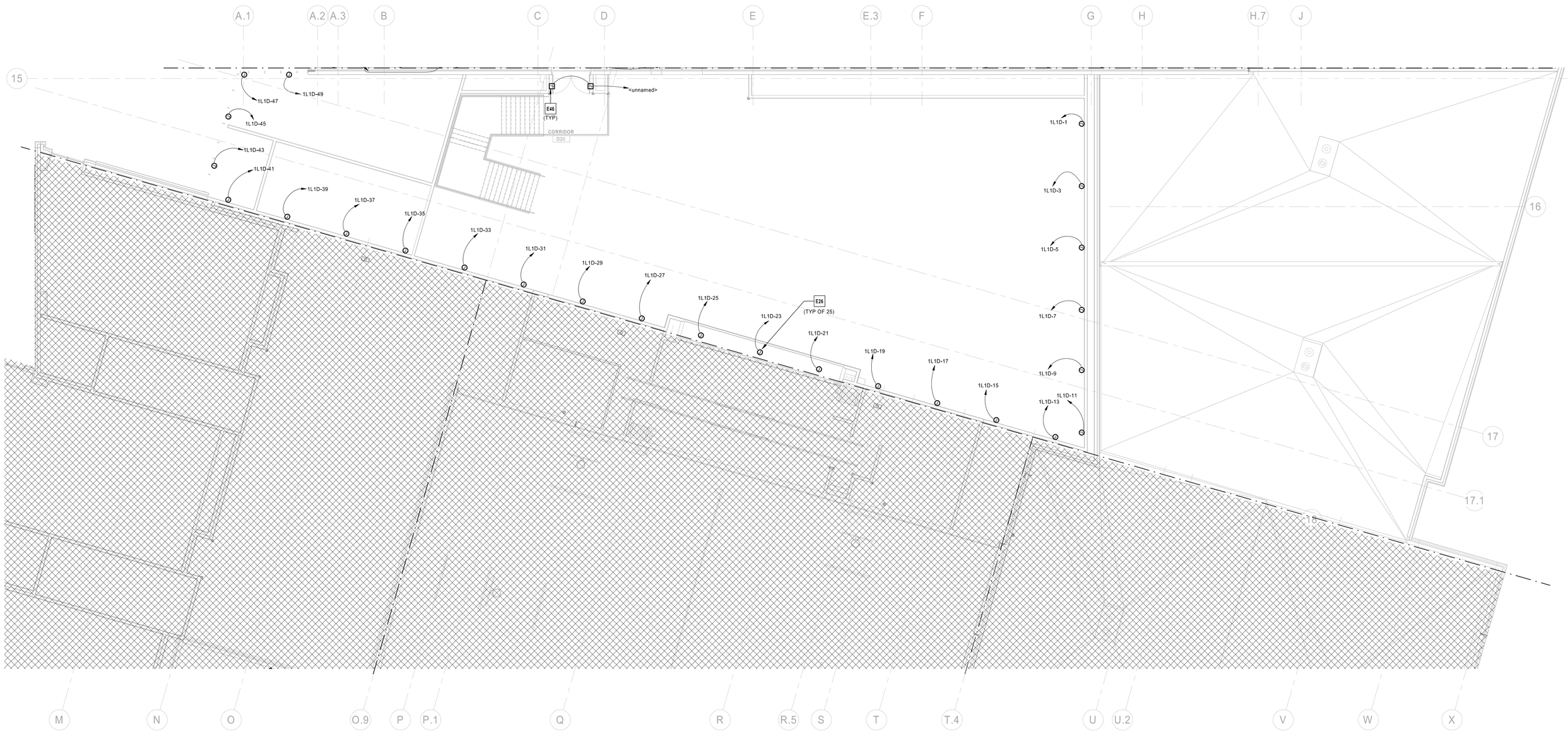
E2.2C

CURTIS A. OLDS

ELECTRICAL PLAN NOTES:

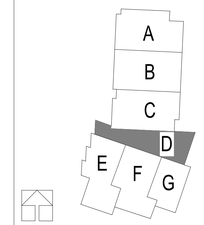
E26 CONTRACTOR TO ROUGH-IN FOR POWER AND CONTROLS FOR MOTORIZED BLINDS. COORDINATE EXACT NUMBER OF CONNECTIONS, NUMBER OF CIRCUITS NEEDED, AND EXACT ROUGH-IN WITH BLINDS MANUFACTURER'S SPECIFICATIONS. COMMONS D101 HAS BLINDS ABOVE ON CLERESTORY. CIRCUIT IS TO BE ROUTED THROUGH RELAY PANEL IN ROOM D108. REFER TO DETAIL 4 ON SHEET E4.0 FOR MORE INFORMATION.

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.



1 POWER SECOND LEVEL PLAN - AREA D
1/8" = 1'-0"

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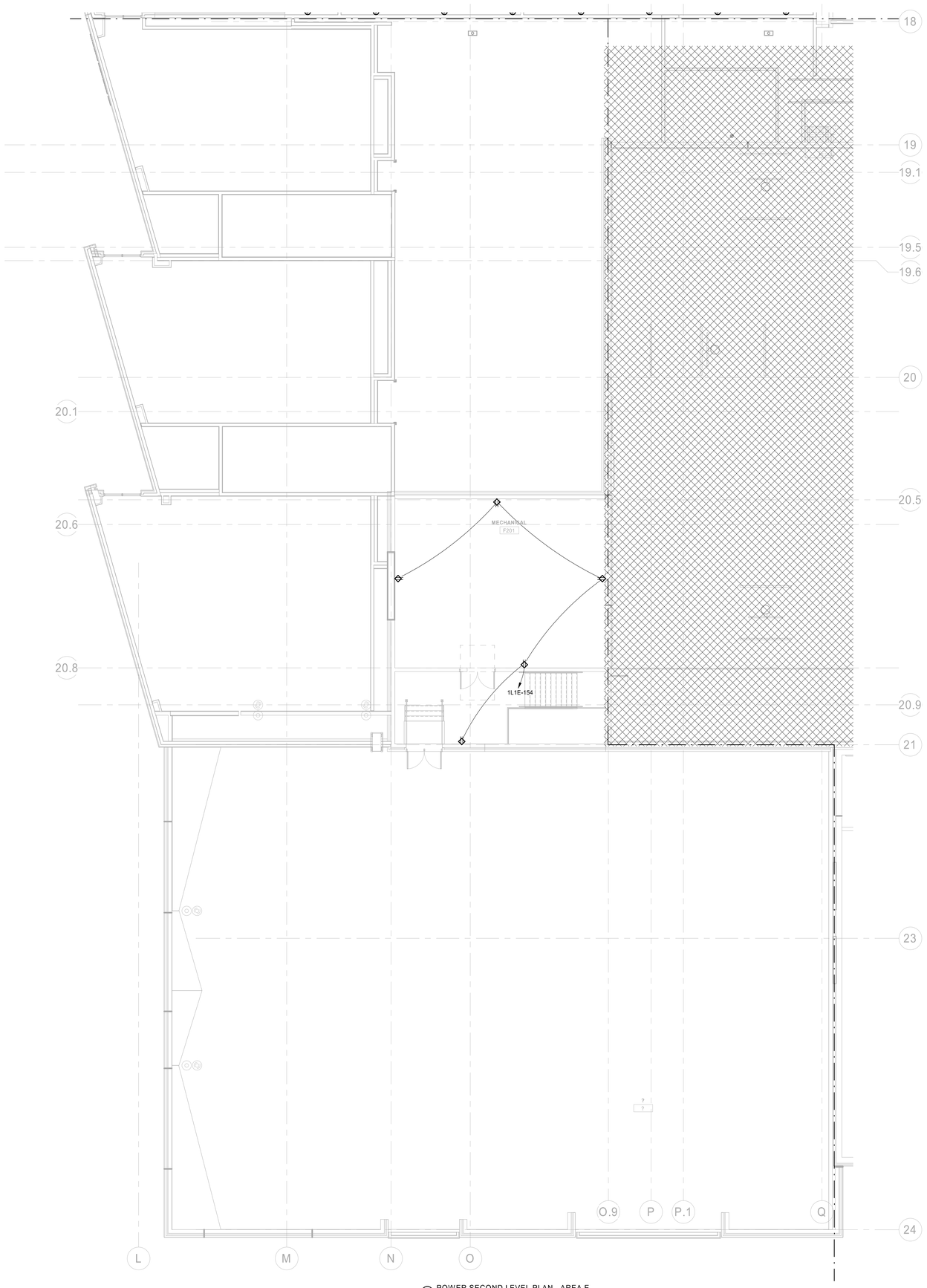
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POWER SECOND LEVEL PLAN - AREA D

E2.2D

CURTIS A. OLDS



1 POWER SECOND LEVEL PLAN - AREA E
1/8" = 1'-0"

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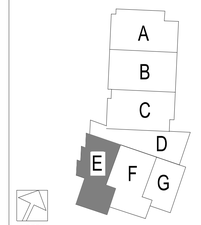
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1001 SE BAILEY ROAD
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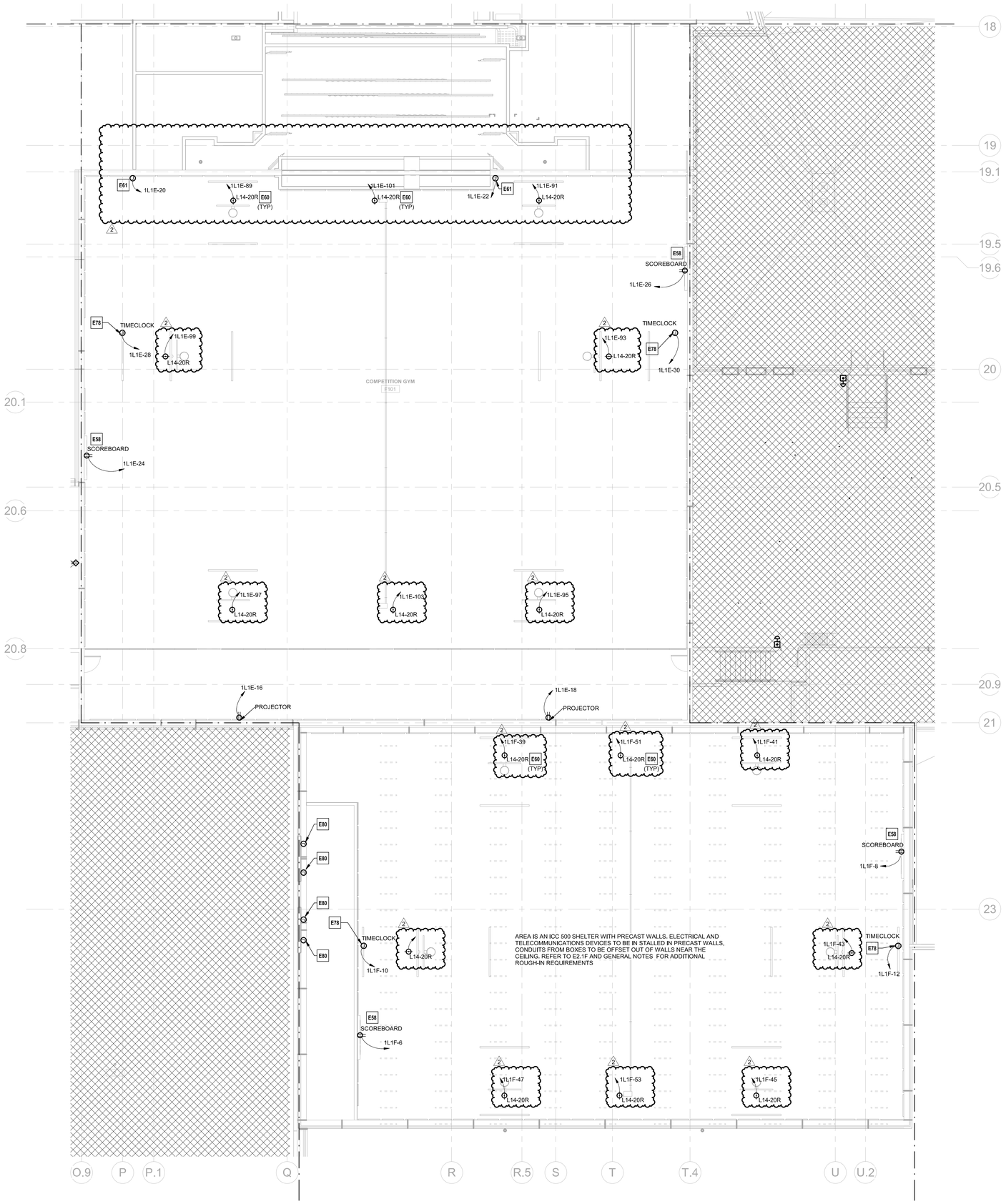


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POWER SECOND LEVEL PLAN - AREA E

E2.2E

CURTIS A. OLDS



1 POWER SECOND LEVEL PLAN - AREA F
1/8" = 1'-0"

ELECTRICAL PLAN NOTES:

E58 COORDINATE EXACT ROUGH-IN LOCATIONS AND MOUNTING HEIGHTS FOR SCOREBOARD POWER WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS, ARCHITECTURAL PLANS, AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. PROVIDE BOX FOR TECHNOLOGY DEVICES IN PRECAST WALL AND 1" CONDUIT TO SCORER'S TABLE. COORDINATE SCORER'S TABLE LOCATION WITH ARCHITECTURAL PLANS.

2 E60 GYMNASIUM BASKETBALL HOOP RAISE LOWER AND CURTAIN MOTORS. CIRCUIT TO BE ROUTED THRU EQUIPMENT MANUFACTURER CONTROL PANEL TO MOTOR LOCATION. EQUIPMENT CONTROL PANEL LOCATED ADJACENT TO POWER PANEL SERVING MOTOR. PROVIDE (4) CONDUCTORS, SIZE PER PANEL SCHEDULE, FROM CONTROL PANEL TO LOAD FOR CONTROL. COORDINATE LOCATION WITH EQUIPMENT MANUFACTURER AND ARCHITECT PRIOR TO INSTALLATION. MOTORS TO BE CONTROLLED VIA KEYED SWITCHES SHOWN ON ASSOCIATED FIRST LEVEL

E61 POWER CONNECTION FOR PROJECTOR SCREEN MOTOR. COORDINATE FINAL LOCATION WITH ARCHITECT AND TECHNOLOGY PLANS. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND TECHNOLOGY PLAN REQUIREMENTS PRIOR TO ROUGH-IN.

E78 COORDINATE EXACT ROUGH-IN LOCATIONS AND MOUNTING HEIGHTS FOR TIMECLOCK POWER WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS, ARCHITECTURAL PLANS, AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. PROVIDE BOX FOR TECHNOLOGY DEVICES AND 1" CONDUIT TO SCORER'S TABLE. COORDINATE SCORER'S TABLE LOCATION WITH ARCHITECTURAL PLANS.

E80 APPROXIMATE LOCATION OF LOW VOLTAGE ROUGH-IN FOR WALL MOUNTED ICC 500 SHELTER LOUVERS CONTRACTOR TO PROVIDE CONDUITS, AND JUNCTION BOXES FOR EQUIPMENT CONNECTIONS. COORDINATE QUANTITY OF CONDUITS AND JUNCTION BOXES, ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH MECHANICAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK. CONDUITS TO BE INSTALLED IN PRECAST WALL AND BOX TO BE MOUNTED UNDER LOUVER

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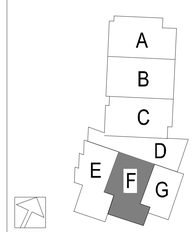
LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS
ADDENDUM 002 10/19/20

KEY PLAN

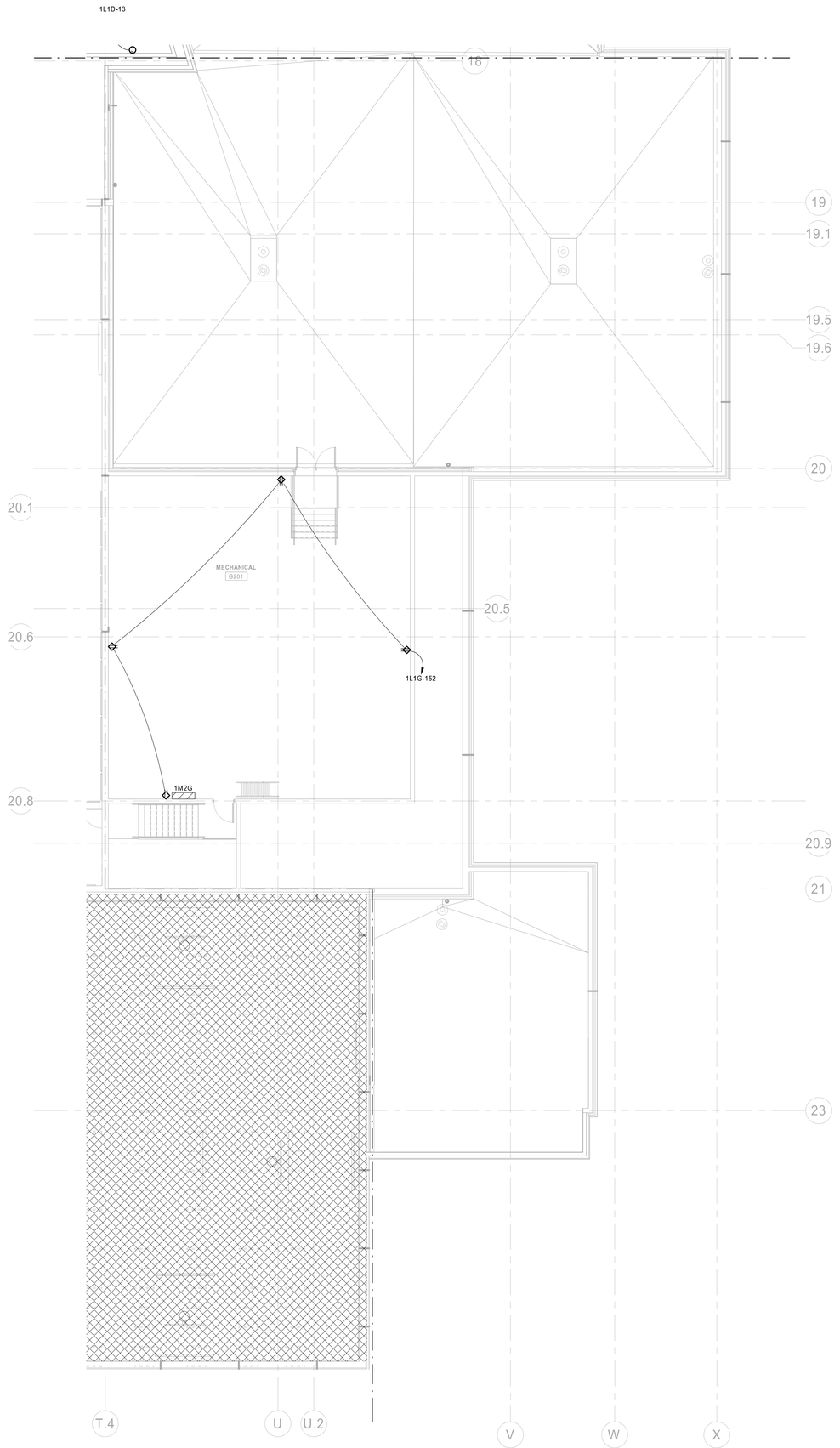


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POWER SECOND LEVEL PLAN - AREA F

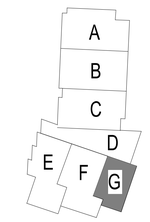
E2.2F

CURTIS A. OLDS



1 POWER SECOND LEVEL PLAN - AREA G
1/8" = 1'-0"

KEY PLAN



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Kansas City, MO 64106
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STATE OF MISSOURI
CURTIS A. OLDS
NUMBER PE-2018036640
PROFESSIONAL ENGINEER

Oct 8 2020
CURTIS A. OLDS
LICENSE # PE-2018036640

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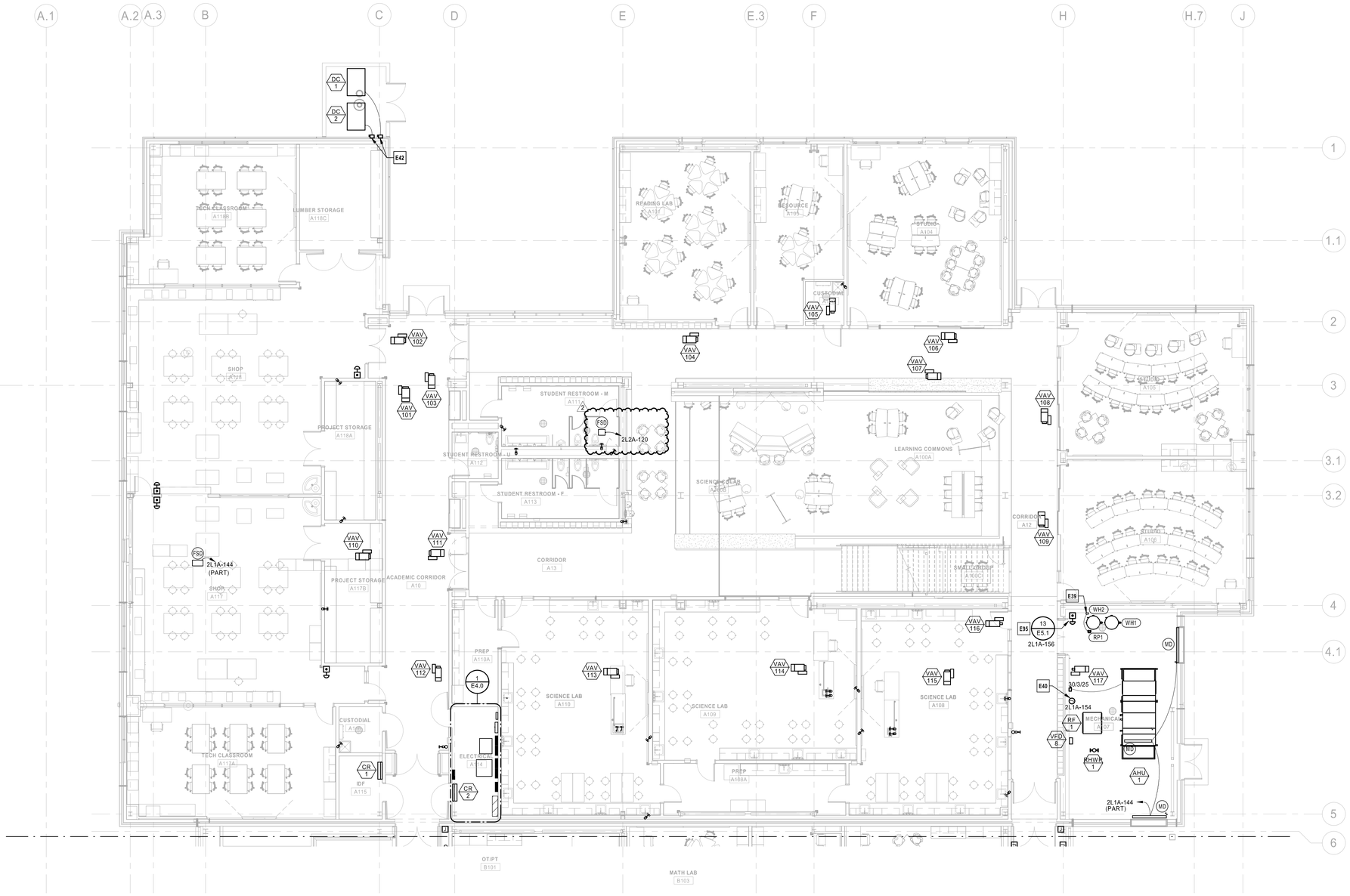
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REVISIONS

13-20102-00

POWER SECOND LEVEL PLAN - AREA G

E2.2G

CURTIS A. OLDS



1 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA A
1/8" = 1'-0"

EQUIP CONN. - LVL1 - AREA A

MARK	LOCATION	PANEL	CIRCUIT	NOTES
AHU 1 SUPPLY	LVL1 - AREA A	2H1A	38,40,42	
DC 1	LVL1 - AREA A	2H1A	26,28,30	
DC 2	LVL1 - AREA A	2H1A	32,34,36	
COMPUTER ROOM - INDOOR				
CR 1	LVL1 - AREA A	2L1A	162,164	B,C
CR 2	LVL1 - AREA A	2L1A	166,168	B,C
FAN				
RF 1	LVL1 - AREA A	2H1A	20,22,24	A,G
Gas Water Heater				
WH1	LVL1 - AREA A	2L1A	160	B
WH2	LVL1 - AREA A	2L1A	160	B
MECH PUMP				
RHWP 1	LVL1 - AREA A	2L1A	142	B
Recirculation Pump				
RP1	LVL1 - AREA A	2L1A	160	B
VARIABLE FREQUENCY DRIVES				
VFD 8	LVL1 - AREA A	2H1A	20,22,24	A,G
VAV BOX HYDRONIC				
VAV 101	LVL1 - AREA A	2L1A	158	E
VAV 102	LVL1 - AREA A	2L1A	158	E
VAV 103	LVL1 - AREA A	2L1A	158	E
VAV 104	LVL1 - AREA A	2L1A	158	E
VAV 105	LVL1 - AREA A	2L1A	158	E
VAV 106	LVL1 - AREA A	2L1A	158	E
VAV 107	LVL1 - AREA A	2L1A	158	E
VAV 108	LVL1 - AREA A	2L1A	158	E
VAV 109	LVL1 - AREA A	2L1A	158	E
VAV 110	LVL1 - AREA A	2L1A	158	E
VAV 111	LVL1 - AREA A	2L1A	158	E
VAV 112	LVL1 - AREA A	2L1A	158	E
VAV 113	LVL1 - AREA A	2L1A	158	E
VAV 114	LVL1 - AREA A	2L1A	158	E
VAV 115	LVL1 - AREA A	2L1A	158	E
VAV 116	LVL1 - AREA A	2L1A	158	E
VAV 117	LVL1 - AREA A	2L1A	158	E

GENERAL NOTES:

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

NOTES:

A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRACTOR OR FACTORY MOUNTED.
B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS.
C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.
D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.
E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS.
F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).
G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES.
H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
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ELECTRICAL PLAN NOTES:

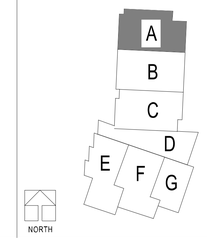
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E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

E42 DUCT COLLECTOR SUPPLY POWER CONNECTION TO EQUIPMENT MOUNTED CONTROL PANEL. PROVIDE ALL LINE (120V THRU 480V) AND LOW VOLTAGE (24V) WIRING INTERCONNECTIONS REQUIRED PER MFR REQUIREMENTS - (1) 480V BLOWER MOTOR, APPROXIMATELY (20) 120V CONTROL WIRING CONNECTIONS (RELAY PANEL CONNECTIONS, SPARK DETECTION PANEL, CLEANING MODE RELAY, SOLENOID HEATER MODULE, SOLENOID CONTROL WIRING, BROKEN BAG ALARM, AND HOPPER/DRUM HIGH LEVEL SENSOR), 24V REMOTE START SIGNAL WIRING (RE: MECHANICAL PLANS FOR LOCATION), AND (1) SINGLE PAIR TWISTED FOR BACNET COMMUNICATIONS.

E95 PROVIDE EMERGENCY SHUTOFF BUTTON FOR BOILERS. PROVIDE WITH RED PLACARD ABOVE BUTTON STATING "BOILER EMERGENCY SHUTOFF" IN 1/4" WHITE LETTERING.

KEY PLAN



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NUMBER PE-2018036640
PROFESSIONAL ENGINEER

Dec 2 2020
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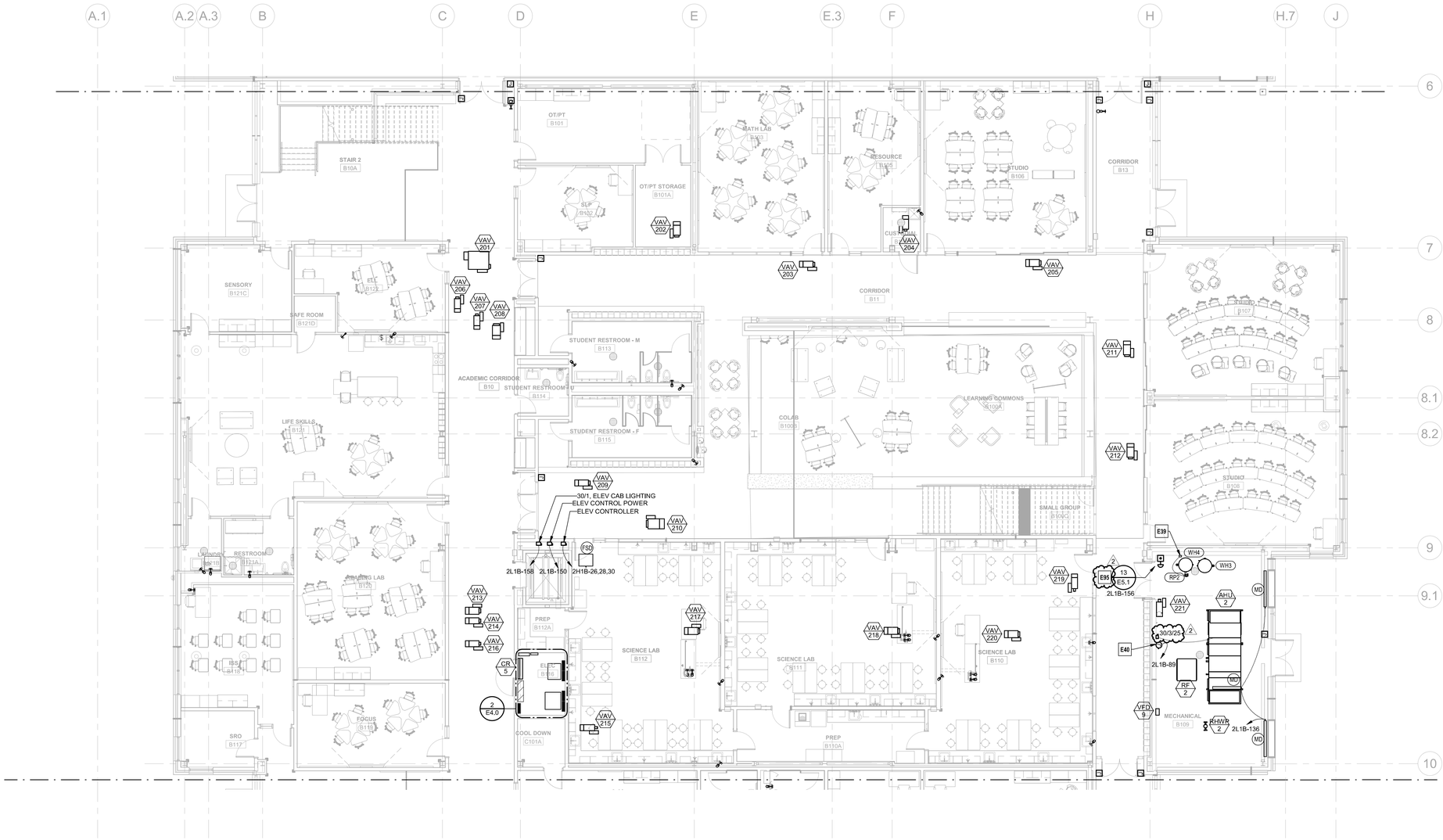
1	ADDENDUM 002	10/19/20
2	ASI 003	12/02/20

13-20102-00

EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA A

E3.1A

CURTIS A. OLDS



1 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA B
1/8" = 1'-0"

EQUIP CONN. - LVL1 - AREA B

MARK	LOCATION	PANEL	CIRCUIT	NOTES
AHU 2 SUPPLY	LVL1 - AREA B	2H1B	32,34,36	
COMPUTER ROOM - INDOOR				
CR 5	LVL1 - AREA B	2L1B	166,168	B,C
ELEVATOR SUMP PUMP				
ESP1	LVL1 - AREA B	2L1B	152	D
FAN				
RF 2	LVL1 - AREA B	2H1B	38,40,42	A,G
FAN POWERED VAV BOX HYDRONIC				
VAV 201	LVL1 - AREA B	2L1B	164	E
Gas Water Heater				
WH3	LVL1 - AREA B	2L1B	162	B
WH4	LVL1 - AREA B	2L1B	162	B
MECH PUMP				
RHWP 2	LVL1 - AREA B	2L1B	138	B
Recirculation Pump				
RP2	LVL1 - AREA B	2L1B	162	B
VARIABLE FREQUENCY DRIVES				
VFD 9	LVL1 - AREA B	2H1B	38,40,42	A,G
VAV BOX HYDRONIC				
VAV 202	LVL1 - AREA B	2L1B	164	E
VAV 203	LVL1 - AREA B	2L1B	164	E
VAV 204	LVL1 - AREA B	2L1B	164	E
VAV 205	LVL1 - AREA B	2L1B	164	E
VAV 206	LVL1 - AREA B	2L1B	164	E
VAV 207	LVL1 - AREA B	2L1B	164	E
VAV 208	LVL1 - AREA B	2L1B	164	E
VAV 209	LVL1 - AREA B	2L1B	164	E
VAV 210	LVL1 - AREA B	2L1B	164	E
VAV 211	LVL1 - AREA B	2L1B	164	E
VAV 212	LVL1 - AREA B	2L1B	164	E
VAV 213	LVL1 - AREA B	2L1B	164	E
VAV 214	LVL1 - AREA B	2L1B	164	E
VAV 215	LVL1 - AREA B	2L1B	164	E
VAV 216	LVL1 - AREA B	2L1B	164	E
VAV 217	LVL1 - AREA B	2L1B	164	E
VAV 218	LVL1 - AREA B	2L1B	164	E
VAV 219	LVL1 - AREA B	2L1B	164	E
VAV 220	LVL1 - AREA B	2L1B	164	E
VAV 221	LVL1 - AREA B	2L1B	164	E

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Oct 19 2020
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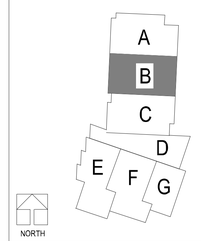
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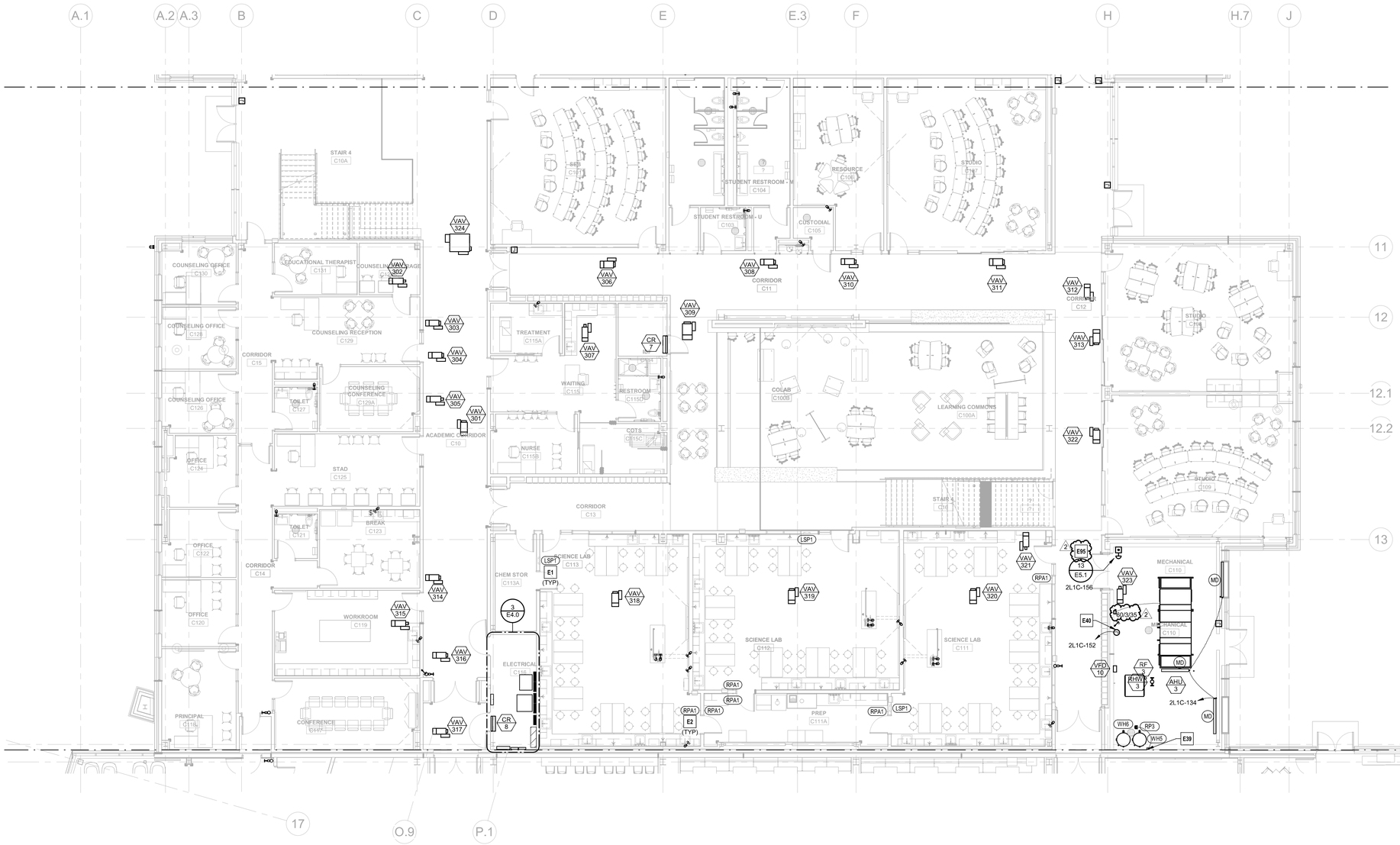


13-20102-00

EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA B

E3.1B

CURTIS A. OLDS



1 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA C
1/8" = 1'-0"

EQUIP CONN. - LVL1 - AREA C

MARK	LOCATION	PANEL	CIRCUIT	NOTES
AHU 3 SUPPLY	LVL1 - AREA C	2H1C	32,34,36	
COMPUTER ROOM - INDOOR				
CR 7	LVL1 - AREA C	2L1C	166,168	B,C
CR 8	LVL1 - AREA C	2L1C	162,164	B,C
FAN				
RF 3	LVL1 - AREA C	2H1C	38,40,42	A,G
FAN POWERED VAV BOX HYDRONIC				
VAV 324	LVL1 - AREA C	2L1C	160	E
Gas Water Heater				
WH5	LVL1 - AREA C	2L1C	158	B
WH6	LVL1 - AREA C	2L1C	158	B
MECH PUMP				
RHWP 3	LVL1 - AREA C	2L1C	136	B
Recirculation Pump				
RP3	LVL1 - AREA C	2L1C	158	B
VARIABLE FREQUENCY DRIVES				
VFD 10	LVL1 - AREA C	2H1C	38,40,42	A,G
VAV BOX HYDRONIC				
VAV 301	LVL1 - AREA C	2L1C	160	E
VAV 302	LVL1 - AREA C	2L1C	160	E
VAV 303	LVL1 - AREA C	2L1C	160	E
VAV 304	LVL1 - AREA C	2L1C	160	E
VAV 305	LVL1 - AREA C	2L1C	160	E
VAV 306	LVL1 - AREA C	2L1C	160	E
VAV 307	LVL1 - AREA C	2L1C	160	E
VAV 308	LVL1 - AREA C	2L1C	160	E
VAV 309	LVL1 - AREA C	2L1C	160	E
VAV 310	LVL1 - AREA C	2L1C	160	E
VAV 311	LVL1 - AREA C	2L1C	160	E
VAV 312	LVL1 - AREA C	2L1C	160	E
VAV 313	LVL1 - AREA C	2L1C	160	E
VAV 314	LVL1 - AREA C	2L1C	160	E
VAV 315	LVL1 - AREA C	2L1C	160	E
VAV 316	LVL1 - AREA C	2L1C	160	E
VAV 317	LVL1 - AREA C	2L1C	160	E
VAV 318	LVL1 - AREA C	2L1C	160	E
VAV 319	LVL1 - AREA C	2L1C	160	E
VAV 320	LVL1 - AREA C	2L1C	160	E
VAV 321	LVL1 - AREA C	2L1C	160	E
VAV 322	LVL1 - AREA C	2L1C	160	E
VAV 323	LVL1 - AREA C	2L1C	160	E

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E1 LAB SERVICE PANEL. PROVIDE ELECTRICAL CONNECTION AS INDICATED, PROVIDE ALL INTERCONNECTING WIRING TO GAS SOLENOID VALVE (INTERNAL TO LSP1) AND REMOTE PANIC ASSEMBLY (RPA1) (WHERE APPLICABLE) PER MANUFACTURER'S REQUIREMENTS.

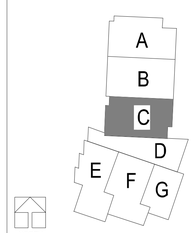
E2 REMOTE PANIC ASSEMBLY. PROVIDE ELECTRICAL CONNECTION FROM CIRCUIT SERVING LAB SERVICE PANEL IN LAB SPACE. PROVIDE ALL REQUIRED WIRING AND CONNECTIONS FROM LAB SERVICE PANEL (LSP) EMERGENCY PUSH BUTTON(S) (RPA1) AND GAS SOLENOID VALVES (INTERNAL TO LSP1).

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STATE OF MISSOURI
CURTIS A. OLDS
NUMBER PE-2018036640
PROFESSIONAL ENGINEER

Oct 19 2020
CURTIS A. OLDS
LICENSE # PE-2018036640

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
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MO. CORPORATE NO. E-5060
EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS
ADDENDUM 002 10/19/20

13-20102-00

EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA C

E3.1C

CURTIS A. OLDS

GENERAL NOTES:

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

NOTES:

A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRACTOR OR FACTORY MOUNTED.
B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS.
C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.
D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.
E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS.
F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).
G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES.
H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.
L. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

EQUIP CONN. - LVL1 - AREA D

MARK	LOCATION	PANEL	CIRCUIT	NOTES
COMPUTER ROOM - INDOOR				
CR 15	LVL1 - AREA D	1L1D	76,78	B,C
CUH HYDRONIC HEAT				
UH 1	LVL1 - AREA D	1L1D	82	A
UH 2	LVL1 - AREA D	1L1D	86	A
UH 13	LVL1 - AREA D	1L1D	72	A
VAV BOX HYDRONIC				
VAV 701	LVL1 - AREA D	1L1E	164	E

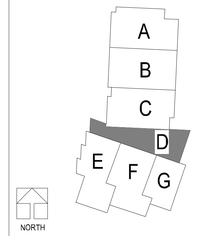
ELECTRICAL PLAN NOTES:

E39 CONTRACTOR TO PROVIDE CONNECTION FOR CIRCULATION PUMP TIMER TO BE FED FROM SAME CIRCUIT AS CIRCULATION PUMP. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND PLUMBING PLANS.



1 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA D
1/8" = 1'-0"

KEY PLAN



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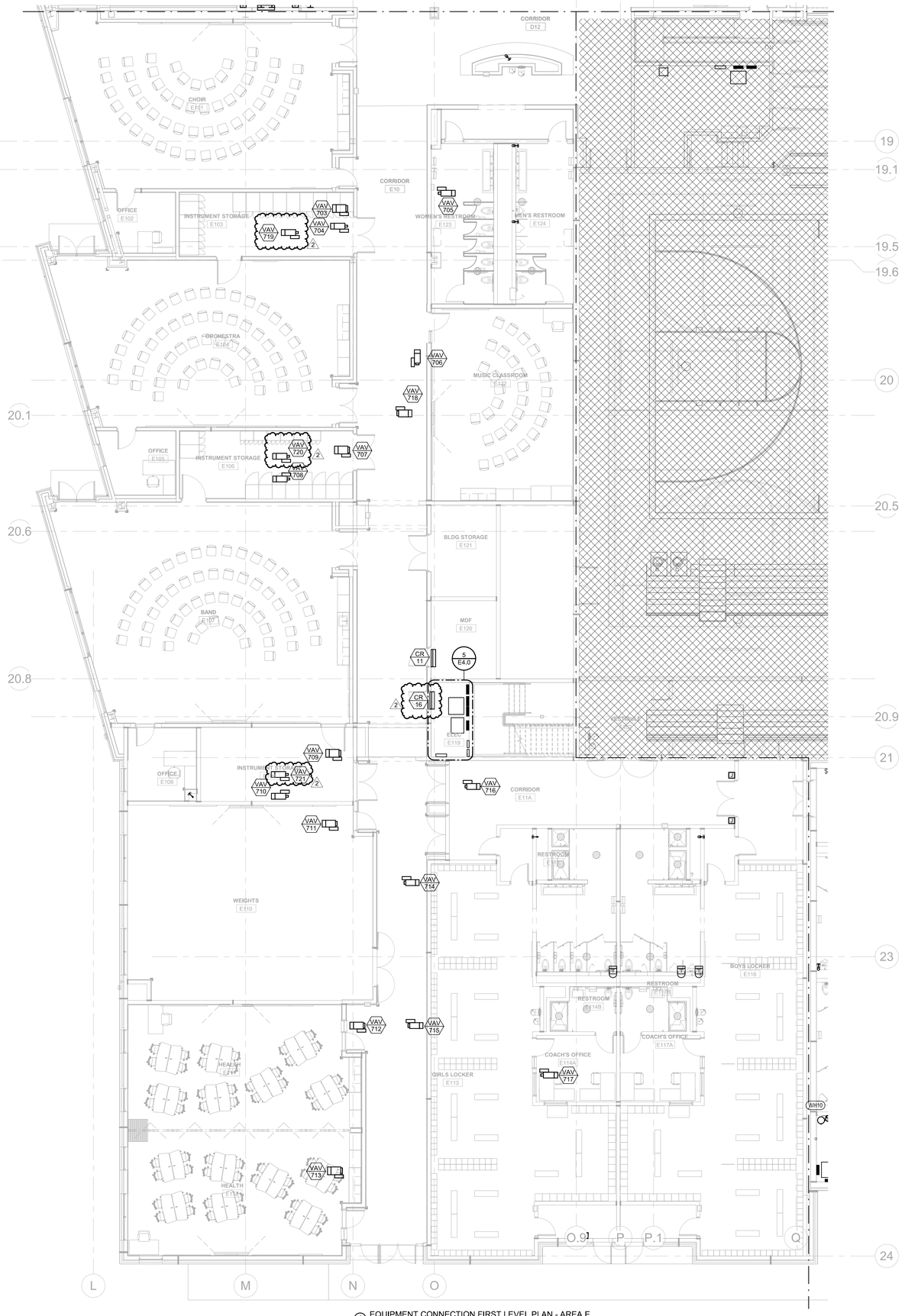
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EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA D

E3.1D

CURTIS A. OLDS



1 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA E
1/8" = 1'-0"

EQUIP CONN. - LVL1 - AREA E

MARK	LOCATION	PANEL	CIRCUIT	NOTES
COMPUTER ROOM - INDOOR				
CR 11	LVL1 - AREA E	1L1E	160,162	B,C
CR 16	LVL1 - AREA E	1L1E	136,138	B,C
VAV BOX ATTENUATOR				
VAV 703	LVL1 - AREA E	1L1E	164	E
VAV 704	LVL1 - AREA E	1L1E	164	E
VAV 705	LVL1 - AREA E	1L1E	164	E
VAV 706	LVL1 - AREA E	1L1E	164	E
VAV 707	LVL1 - AREA E	1L1E	164	E
VAV 708	LVL1 - AREA E	1L1E	164	E
VAV 709	LVL1 - AREA E	1L1E	164	E
VAV 710	LVL1 - AREA E	1L1E	164	E
VAV 711	LVL1 - AREA E	1L1E	164	E
VAV 712	LVL1 - AREA E	1L1E	164	E
VAV 713	LVL1 - AREA E	1L1E	164	E
VAV 714	LVL1 - AREA E	1L1E	164	E
VAV 715	LVL1 - AREA E	1L1E	164	E
VAV 716	LVL1 - AREA E	1L1E	164	E
VAV 717	LVL1 - AREA E	1L1E	164	E
VAV 718	LVL1 - AREA E	1L1E	164	E
VAV 719	LVL1 - AREA E	1L1E	164	E
VAV 720	LVL1 - AREA E	1L1E	164	E
VAV 721	LVL1 - AREA E	1L1E	164	E

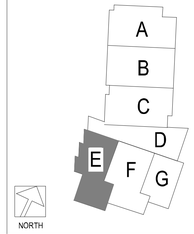
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KEY PLAN



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KANSAS CITY

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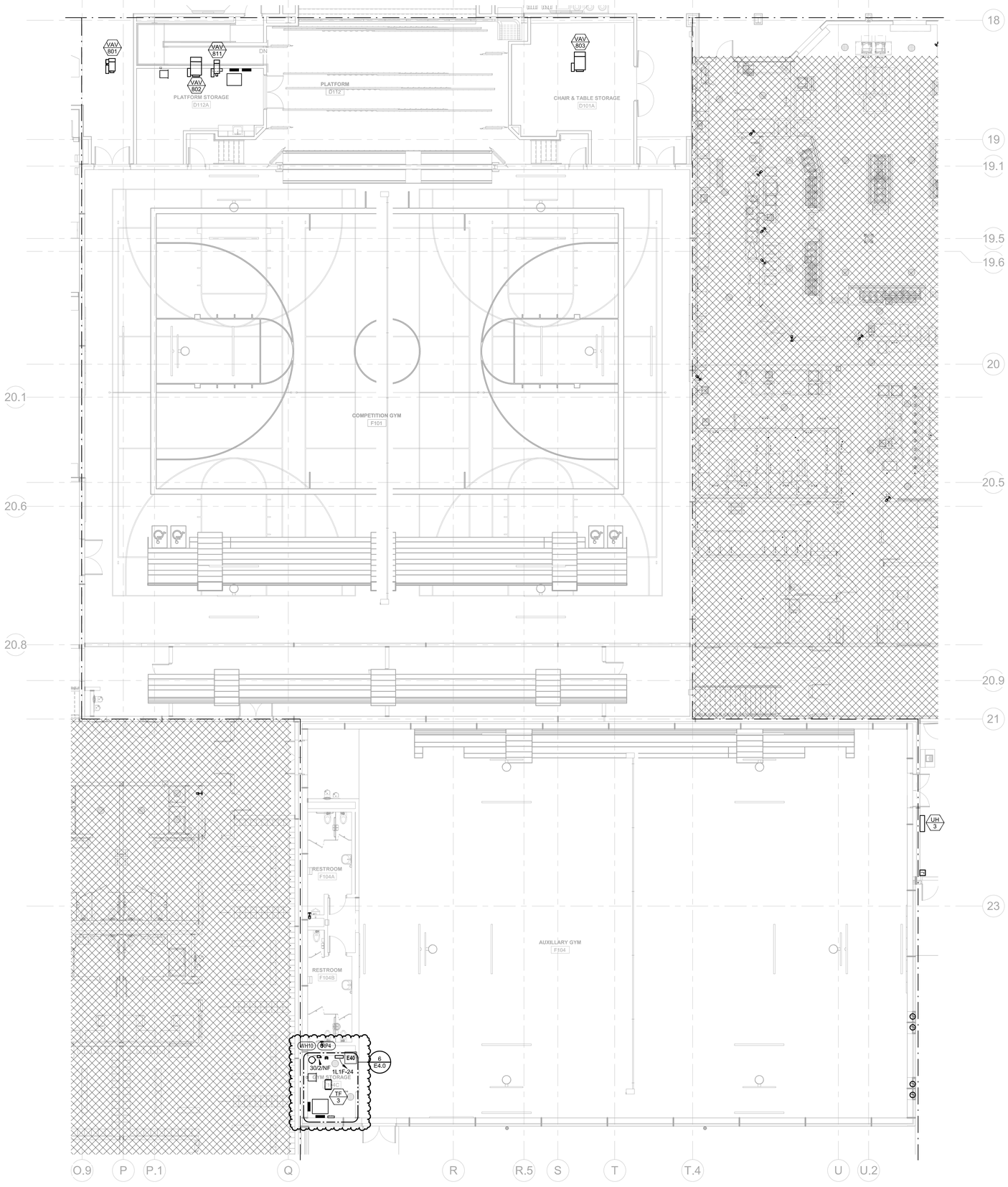
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EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA E

E3.1E

CURTIS A. OLDS



1 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA F
1/8" = 1'-0"

EQUIP CONN. - LVL1 - AREA F

MARK	LOCATION	PANEL	CIRCUIT	NOTES
Electric Storage Water Heater				
WH10	LVL1 - AREA F	1L1F	18,20	K
FAN				
TF 3	LVL1 - AREA F	1L1F	55	A
Recirculation Pump				
RP4	LVL1 - AREA F	1L1F	22	B
VAV BOX HYDRONIC				
VAV 801	LVL1 - AREA F	1L1D	80	E
VAV 802	LVL1 - AREA F	1L1D	80	E
VAV 803	LVL1 - AREA F	1L1D	80	E
VAV 811	LVL1 - AREA F	1L1D	80	E

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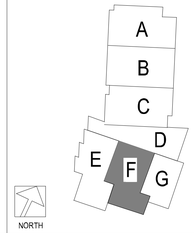
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ELECTRICAL PLAN NOTES:

E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

KEY PLAN



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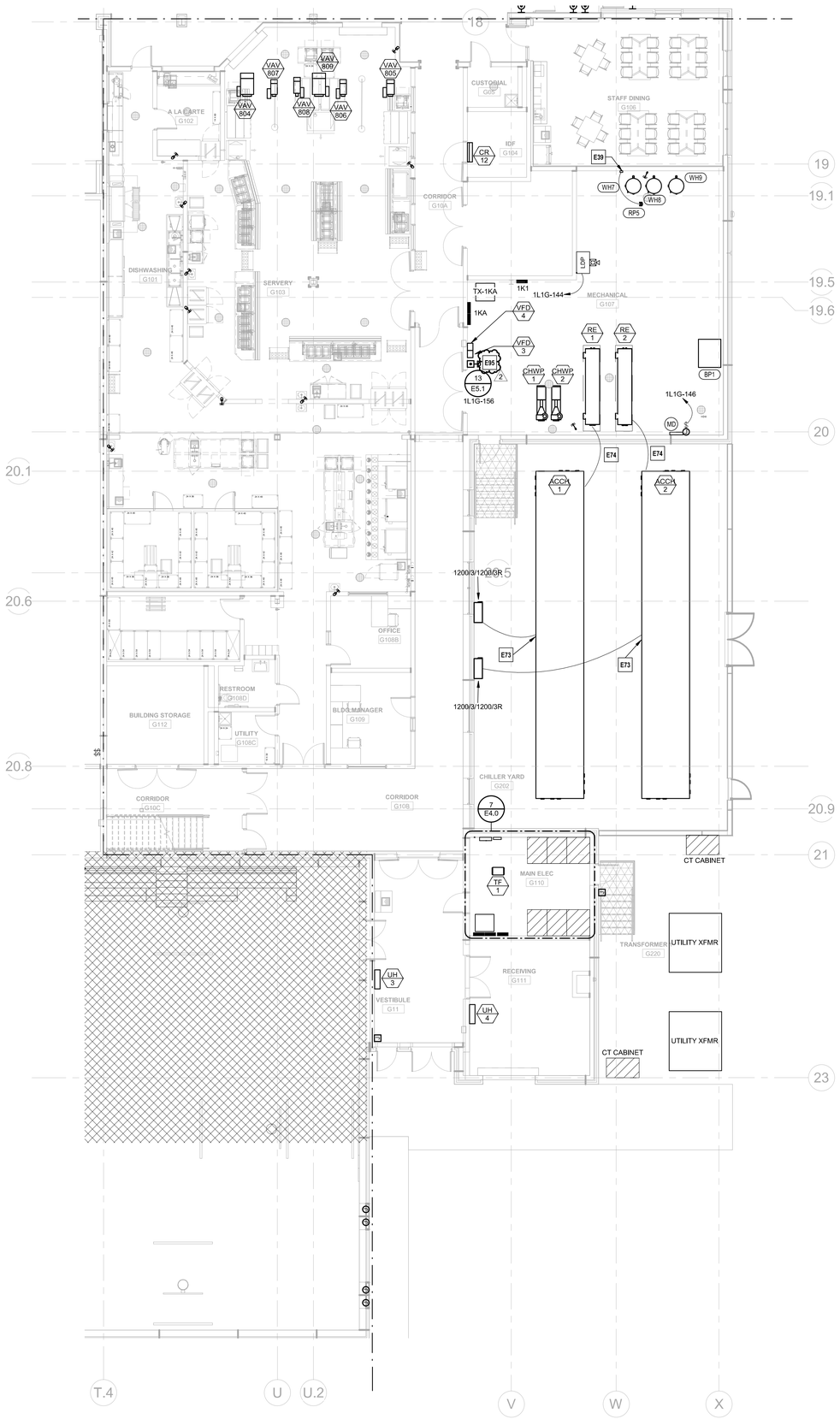
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EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA F

E3.1F

CURTIS A. OLDS



1 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA G
1/8" = 1'-0"

EQUIP CONN. - LVL1 - AREA G

MARK	LOCATION	PANEL	CIRCUIT	NOTES
CHILLER				
ACCH 1	LVL1 - AREA G	SWBD-N1	1	A
ACCH 2	LVL1 - AREA G	SWBD-N1	2	A
COMPUTER ROOM - INDOOR				
CR 12	LVL1 - AREA G	1L1G	166,168	B,C
CUH HYDRONIC HEAT				
UH 3	LVL1 - AREA G	1L1G	162	A
UH 4	LVL1 - AREA G	1L1G	162	A
DOMESTIC BOOSTER PUMP				
BP1	LVL1 - AREA G	1H1G	32,34,36	A
FAN				
TF 1	LVL1 - AREA G	1L1G	148	A
Gas Water Heater				
WH7	LVL1 - AREA G	1L1G	126	B
WH8	LVL1 - AREA G	1L1G	126	B
WH9	LVL1 - AREA G	1L1G	128	B
MECH PUMP				
CHWP 1	LVL1 - AREA G	SWBD-N1	3	A
CHWP 2	LVL1 - AREA G	SWBD-N1	4	A
Recirculation Pump				
RP5	LVL1 - AREA G	1L1G	132	B
VARIABLE FREQUENCY DRIVES				
VFD 3	LVL1 - AREA G	SWBD-N1	3	A,G
VFD 4	LVL1 - AREA G	SWBD-N1	4	A,G
VAV BOX HYDRONIC				
VAV 804	LVL1 - AREA G	1L1G	164	E
VAV 805	LVL1 - AREA G	1L1G	164	E
VAV 806	LVL1 - AREA G	1L1G	164	E
VAV 807	LVL1 - AREA G	1L1G	164	E
VAV 808	LVL1 - AREA G	1L1G	164	E
VAV 809	LVL1 - AREA G	1L1G	164	E

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E73 POWER CONNECTION TO FACTORY MOUNTED VFD. COORDINATE REQUIREMENTS WITH MANUFACTURER AND DIVISION 23 CONTRACTOR.
E74 DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION OF AIR COOLED CHILLER AND REMOTE EVAPORATION UNIT. COORDINATE REQUIREMENTS WITH DIVISION 23 CONTRACTOR AND MANUFACTURER.
2 E95 PROVIDE EMERGENCY SHUTOFF BUTTON FOR BOILERS. PROVIDE WITH RED PLACARD ABOVE BUTTON STATING "BOILER EMERGENCY SHUTOFF" IN 1/4" WHITE LETTERING.

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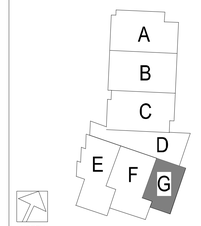
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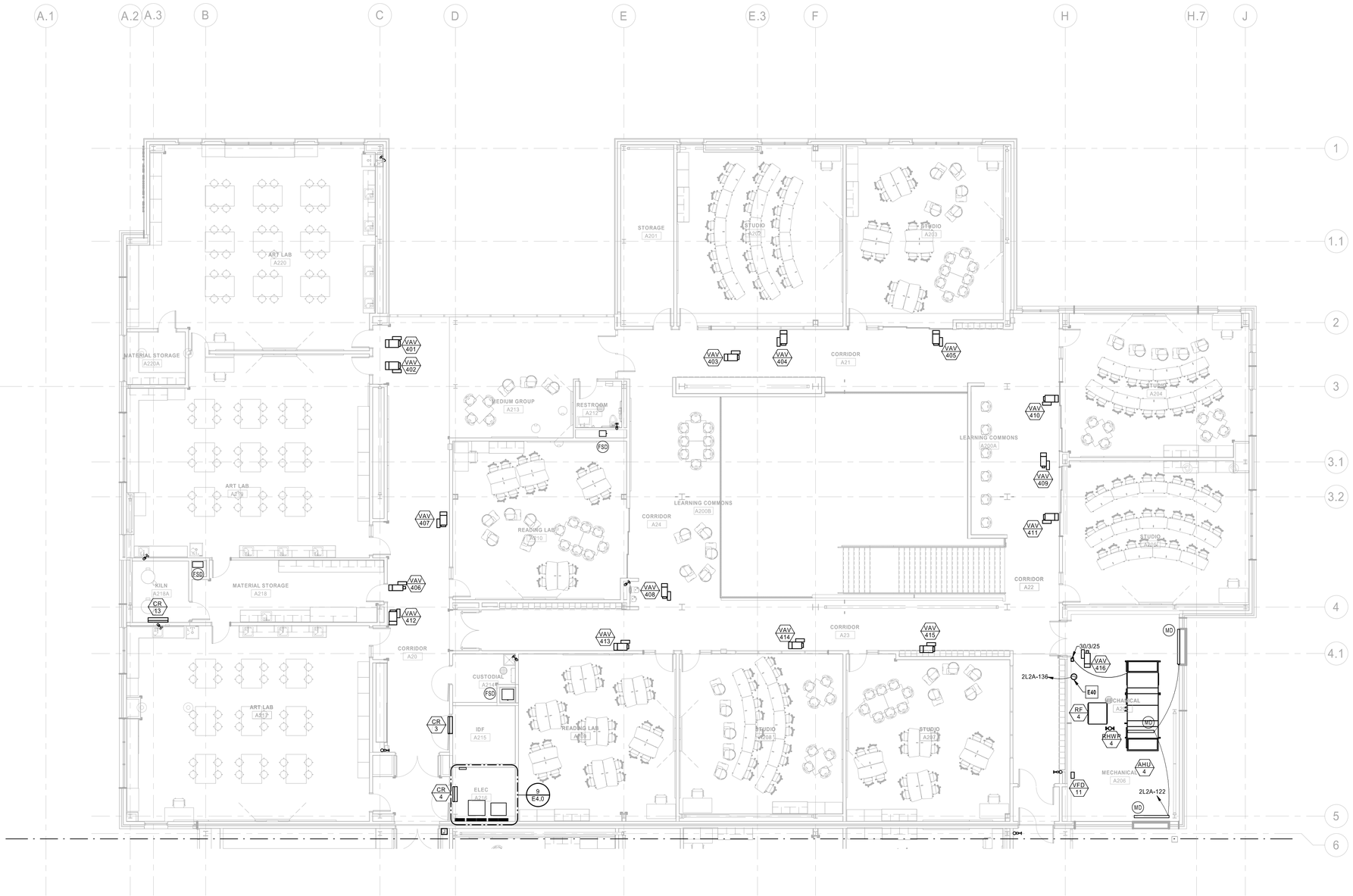


13-20102-00

EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA G

E3.1G

CURTIS A. OLDS



1 EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA A
1/8" = 1'-0"

EQUIP CONN. - LVL2 - AREA A

MARK	LOCATION	PANEL	CIRCUIT	NOTES
AHU 4 SUPPLY	LVL2 - AREA A	2H2A	38,40,42	
COMPUTER ROOM - INDOOR				
CR 3	LVL2 - AREA A	2L2A	162,164	B,C
CR 4	LVL2 - AREA A	2L2A	166,168	B,C
CR 13	LVL2 - AREA A	2L2A	158,160	B,C
FAN				
RF 4	LVL2 - AREA A	2H2A	32,34,36	A,G
MECH PUMP				
RHWP 4	LVL2 - AREA A	2L2A	124	B
VARIABLE FREQUENCY DRIVES				
VFD 11	LVL2 - AREA A	2H2A	32,34,36	A,G
VAV BOX HYDRONIC				
VAV 401	LVL2 - AREA A	2L2A	156	E
VAV 402	LVL2 - AREA A	2L2A	156	E
VAV 403	LVL2 - AREA A	2L2A	156	E
VAV 404	LVL2 - AREA A	2L2A	156	E
VAV 405	LVL2 - AREA A	2L2A	156	E
VAV 406	LVL2 - AREA A	2L2A	156	E
VAV 407	LVL2 - AREA A	2L2A	156	E
VAV 408	LVL2 - AREA A	2L2A	156	E
VAV 409	LVL2 - AREA A	2L2A	156	E
VAV 410	LVL2 - AREA A	2L2A	156	E
VAV 411	LVL2 - AREA A	2L2A	156	E
VAV 412	LVL2 - AREA A	2L2A	156	E
VAV 413	LVL2 - AREA A	2L2A	156	E
VAV 414	LVL2 - AREA A	2L2A	156	E
VAV 415	LVL2 - AREA A	2L2A	156	E
VAV 416	LVL2 - AREA A	2L2A	156	E

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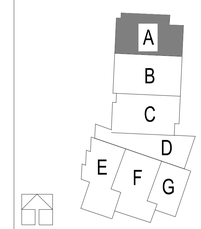
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2 ☐ **ELECTRICAL PLAN NOTES:**

E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

KEY PLAN



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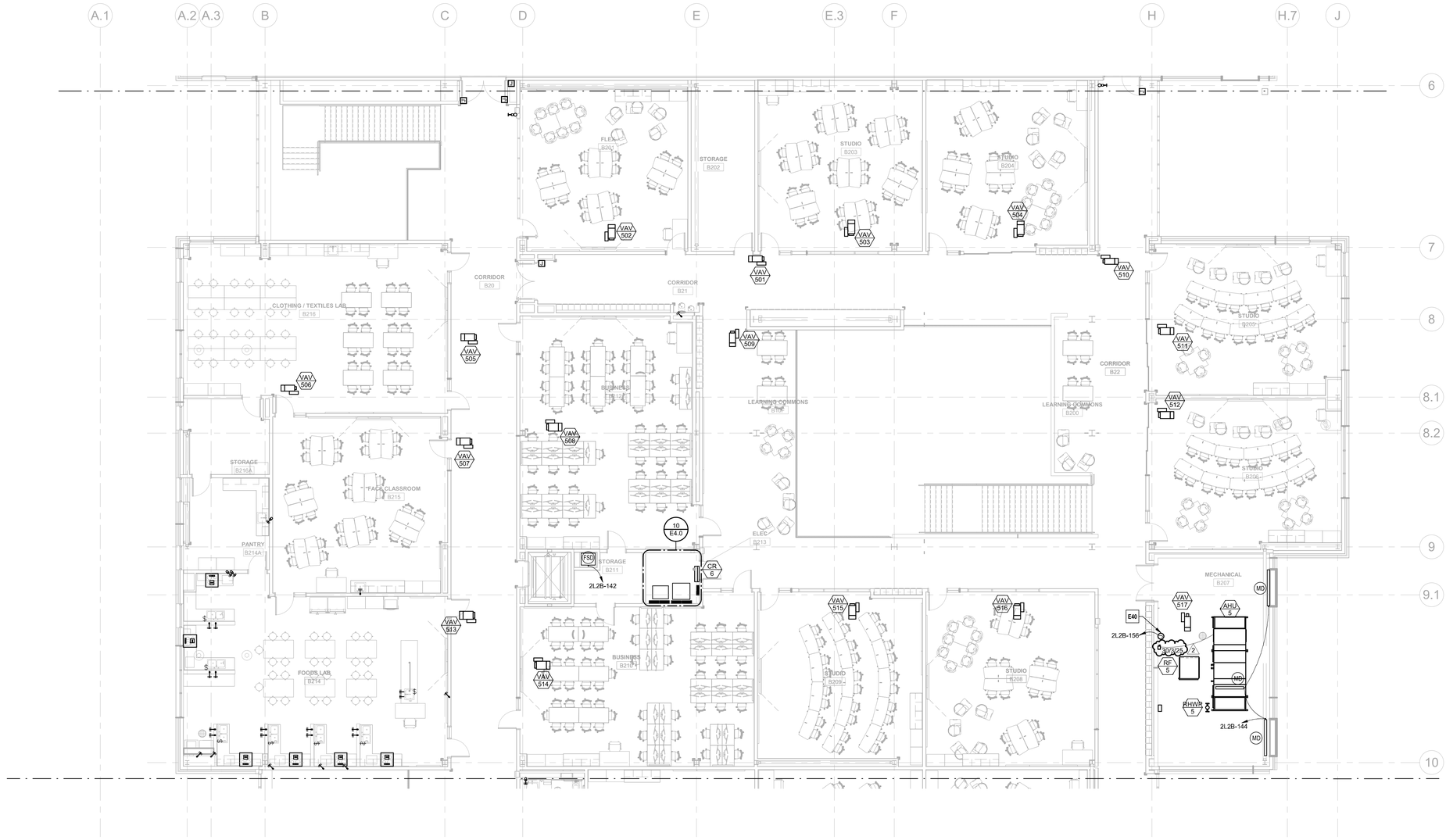
1	ADDENDUM 002	10/19/20
2	ASI 003	12/02/20

13-20102-00

EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA A

E3.2A

CURTIS A. OLDS



1 EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA B
1/8" = 1'-0"

EQUIP CONN. - LVL2 - AREA B

MARK	LOCATION	PANEL	CIRCUIT	NOTES
AHU 5 SUPPLY				
	LVL2 - AREA B	2H2B	32,34,36	
COMPUTER ROOM - INDOOR				
CR 6	LVL2 - AREA B	2L2B	166,168	B,C
FAN				
RF 5	LVL2 - AREA B	2H2B	38,40,42	A,G
MECH PUMP				
RHWP 5	LVL2 - AREA B	2L2B	146	B
VARIABLE FREQUENCY DRIVES				
VFD 12	LVL2 - AREA B	2H2B	38,40,42	A,G
VAV BOX HYDRONIC				
VAV 501	LVL2 - AREA B	2L2B	164	E
VAV 502	LVL2 - AREA B	2L2B	164	E
VAV 503	LVL2 - AREA B	2L2B	164	E
VAV 504	LVL2 - AREA B	2L2B	164	E
VAV 505	LVL2 - AREA B	2L2B	164	E
VAV 506	LVL2 - AREA B	2L2B	164	E
VAV 507	LVL2 - AREA B	2L2B	164	E
VAV 508	LVL2 - AREA B	2L2B	164	E
VAV 509	LVL2 - AREA B	2L2B	164	E
VAV 510	LVL2 - AREA B	2L2B	164	E
VAV 511	LVL2 - AREA B	2L2B	164	E
VAV 512	LVL2 - AREA B	2L2B	164	E
VAV 513	LVL2 - AREA B	2L2B	164	E
VAV 514	LVL2 - AREA B	2L2B	164	E
VAV 515	LVL2 - AREA B	2L2B	164	E
VAV 516	LVL2 - AREA B	2L2B	164	E
VAV 517	LVL2 - AREA B	2L2B	164	E

GENERAL NOTES:

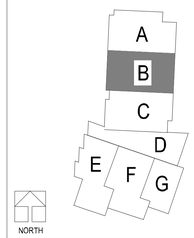
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KEY PLAN



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Oct 19 2020
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ADDENDUM 002 10/19/20

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EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA B

E3.2B

CURTIS A. OLDS

EQUIP CONN. - LVL2 - AREA C

MARK	LOCATION	PANEL	CIRCUIT	NOTES
AHU 6 SUPPLY	LVL2 - AREA C	2H2C	32,34,36	
COMPUTER ROOM - INDOOR				
CR 9	LVL2 - AREA C	2L2C	162,164	B,C
CR 10	LVL2 - AREA C	2L2C	166,168	B,C
FAN				
RF 6	LVL2 - AREA C	2H2C	38,40,42	A,G
MECH PUMP				
RHWP 6	LVL2 - AREA C	2L2C	140	B
VARIABLE FREQUENCY DRIVES				
VFD 13	LVL2 - AREA C	2H2C	38,40,42	A,G
VAV BOX HYDRONIC				
VAV 601	LVL2 - AREA C	2L2C	156	E
VAV 602	LVL2 - AREA C	2L2C	156	E
VAV 603	LVL2 - AREA C	2L2C	156	E
VAV 604	LVL2 - AREA C	2L2C	156	E
VAV 605	LVL2 - AREA C	2L2C	156	E
VAV 606	LVL2 - AREA C	2L2C	156	E
VAV 607	LVL2 - AREA C	2L2C	156	E
VAV 608	LVL2 - AREA C	2L2C	156	E
VAV 609	LVL2 - AREA C	2L2C	156	E
VAV 610	LVL2 - AREA C	2L2C	156	E
VAV 611	LVL2 - AREA C	2L2C	156	E
VAV 612	LVL2 - AREA C	2L2C	156	E
VAV 613	LVL2 - AREA C	2L2C	156	E
VAV 614	LVL2 - AREA C	2L2C	156	E
VAV 615	LVL2 - AREA C	2L2C	156	E
VAV 616	LVL2 - AREA C	2L2C	156	E
VAV 617	LVL2 - AREA C	2L2C	156	E
VAV 618	LVL2 - AREA C	2L2C	156	E

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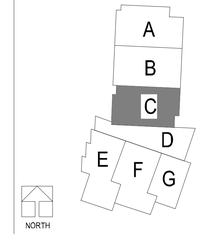
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1 EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA C
1/8" = 1'-0"

KEY PLAN



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EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA C

E3.2C

CURTIS A. OLDS

EQUIP CONN. - LVL2 - AREA D

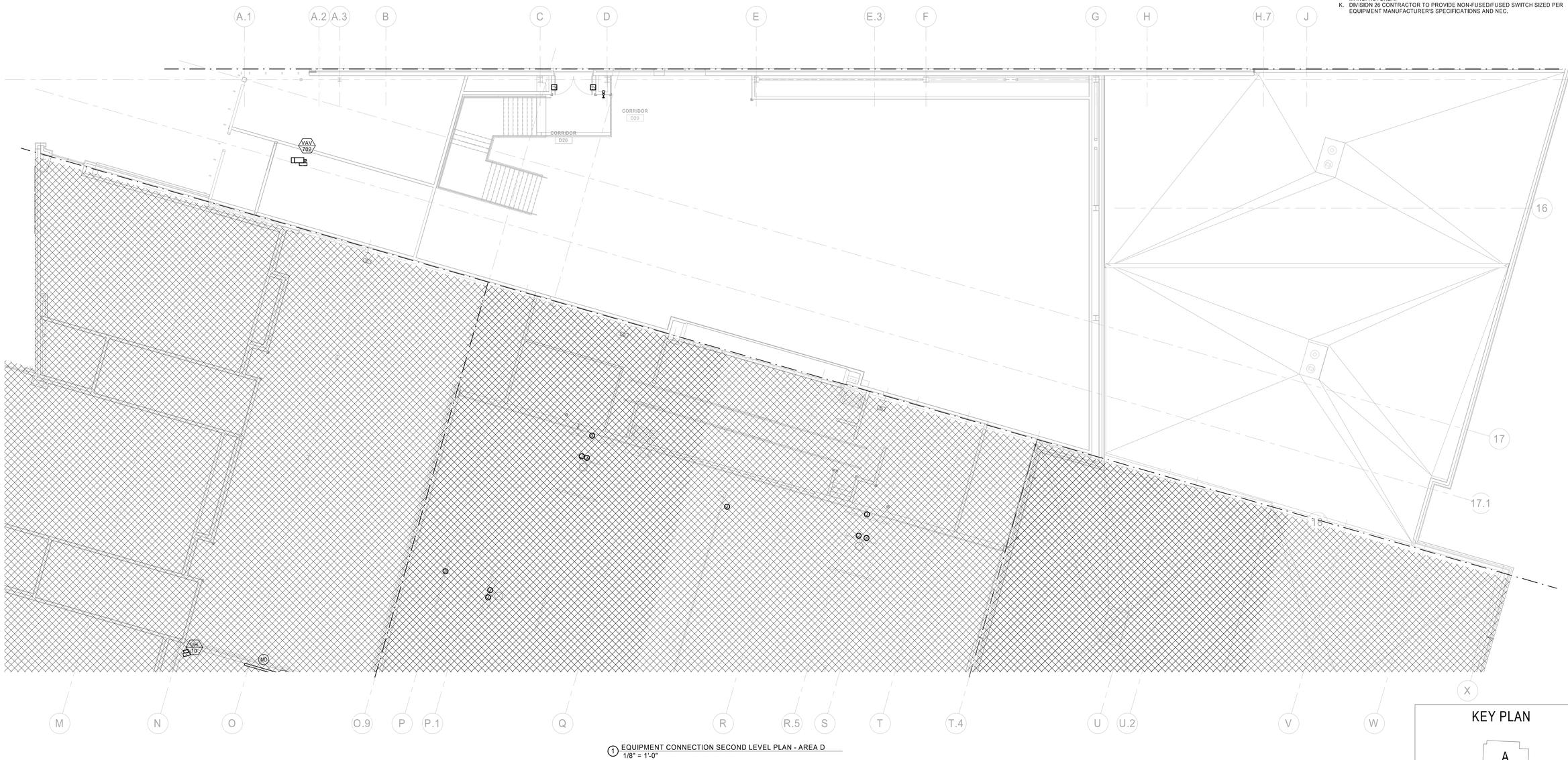
MARK	LOCATION	PANEL	CIRCUIT	NOTES
VAV BOX HYDRONIC				
VAV 702	LVL2 - AREA D	1L1E	164	E

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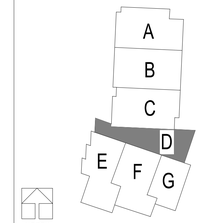
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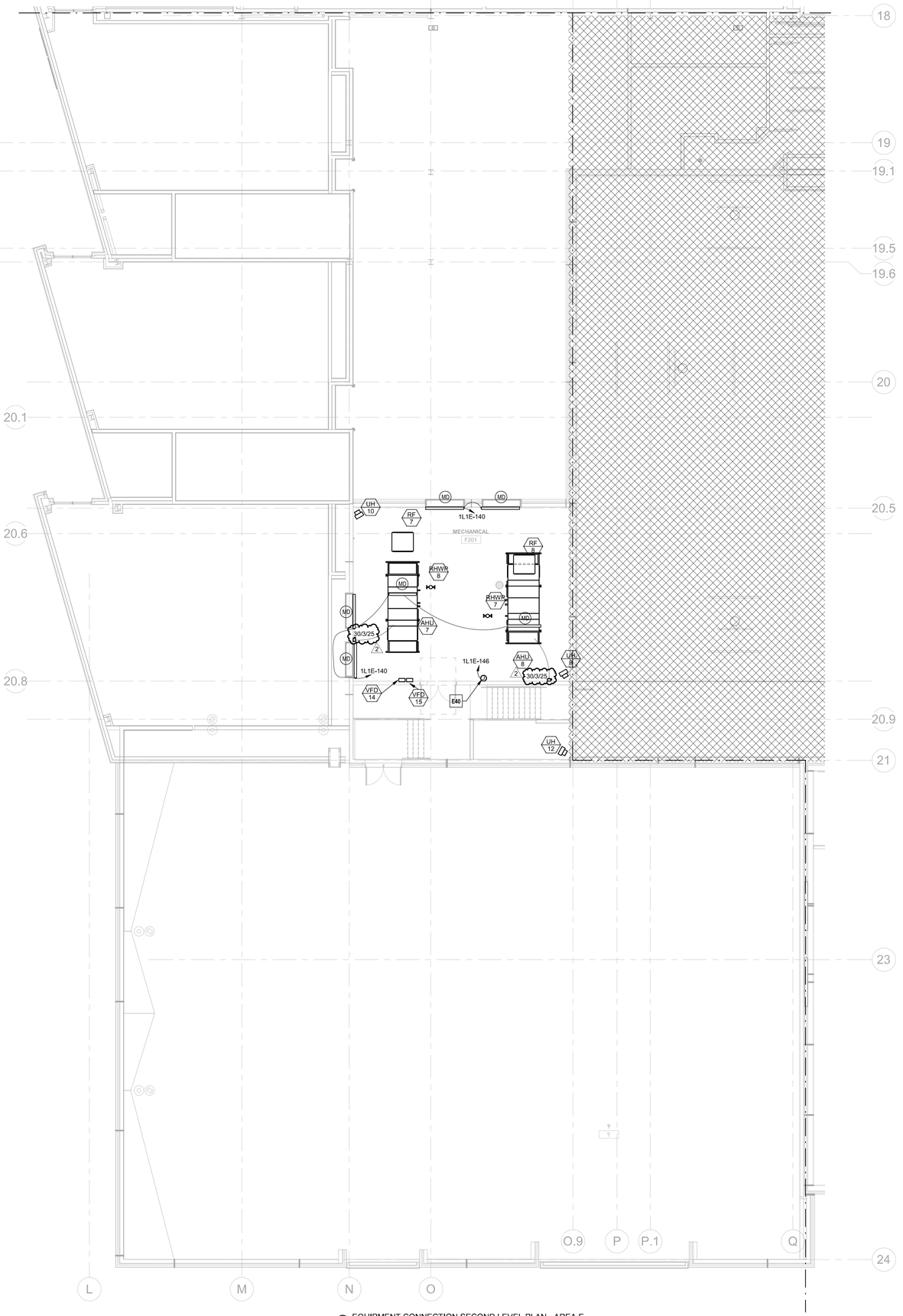
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EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA D

E3.2D

CURTIS A. OLDS



1 EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA E
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EQUIP CONN. - LVL2 - AREA E

MARK	LOCATION	PANEL	CIRCUIT	NOTES
AHU 7 SUPPLY	LVL2 - AREA E	1H1E	62,64,66	
AHU 8 SUPPLY	LVL2 - AREA E	1H1E	50,52,54	
FAN				
RF 7	LVL2 - AREA E	1H1E	68,70,72	A,G
RF 8	LVL2 - AREA E	1H1E	56,58,60	A,G
MECH PUMP				
RHWP 7	LVL2 - AREA E	1L1E	142	B
RHWP 8	LVL2 - AREA E	1L1E	144	B
UNIT HEATER HYDRONIC				
UH 9	LVL2 - AREA E	1L1E	158	A
UH 10	LVL2 - AREA E	1L1E	158	A
UH 12	LVL2 - AREA E	1L1E	158	A
VARIABLE FREQUENCY DRIVES				
VFD 14	LVL2 - AREA E	1H1E	68,70,72	A,G
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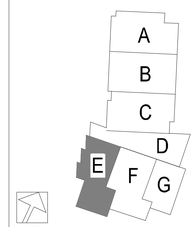
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E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

KEY PLAN



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STATE OF MISSOURI
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NUMBER PE-2018036640
PROFESSIONAL ENGINEER

Oct 19 2020
CURTIS A. OLDS
LICENSE # PE-2018036640

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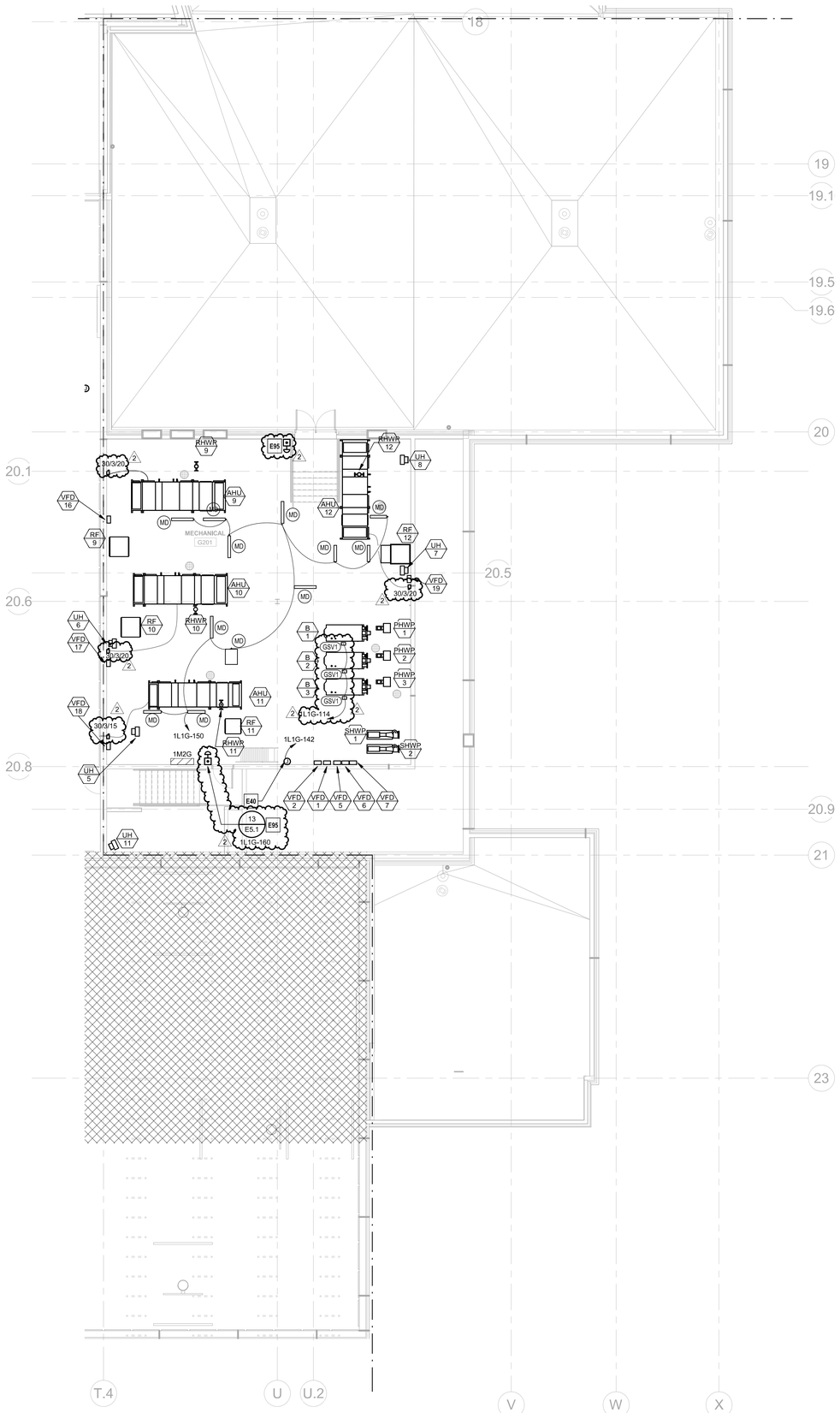
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ADDENDUM 002 10/19/20

13-20102-00

EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA E

E3.2E

CURTIS A. OLDS



1 EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA G
1/8" = 1'-0"

EQUIP CONN. - LVL2 - AREA G

MARK	LOCATION	PANEL	CIRCUIT	NOTES
AHU 9 SUPPLY	LVL2 - AREA G	1M2G	62,64,66	
AHU 10 SUPPLY	LVL2 - AREA G	1M2G	74,76,78	
AHU 11 SUPPLY	LVL2 - AREA G	1M2G	38,40,42	
AHU 12 SUPPLY	LVL2 - AREA G	1M2G	50,52,54	
B 1	LVL2 - AREA G	1M2G	61,63,65	F
B 2	LVL2 - AREA G	1M2G	67,69,71	F
B 3	LVL2 - AREA G	1M2G	73,75,77	F
FAN				
RF 9	LVL2 - AREA G	1M2G	68,70,72	A,G
RF 10	LVL2 - AREA G	1M2G	80,82,84	A,G
RF 11	LVL2 - AREA G	1M2G	44,46,48	A,G
RF 12	LVL2 - AREA G	1M2G	56,58,60	A,G
MECH PUMP				
PHWP 1	LVL2 - AREA G	1M2G	37,39,41	F
PHWP 2	LVL2 - AREA G	1M2G	43,45,47	F
PHWP 3	LVL2 - AREA G	1M2G	49,51,53	F
RHWP 9	LVL2 - AREA G	1L1G	118	B
RHWP 10	LVL2 - AREA G	1L1G	120	B
RHWP 11	LVL2 - AREA G	1L1G	122	B
RHWP 12	LVL2 - AREA G	1L1G	124	B
SHWP 1	LVL2 - AREA G	1M2G	25,27,29	A
SHWP 2	LVL2 - AREA G	1M2G	31,33,35	A
UNIT HEATER HYDRONIC				
UH 5	LVL2 - AREA G	1L1G	158	A
UH 6	LVL2 - AREA G	1L1G	158	A
UH 7	LVL2 - AREA G	1L1G	158	A
UH 8	LVL2 - AREA G	1L1G	158	A
UH 11	LVL2 - AREA G	1L1G	158	A
VARIABLE FREQUENCY DRIVES				
VFD 1	LVL2 - AREA G	1M2G	25,27,29	A,G
VFD 2	LVL2 - AREA G	1M2G	31,33,35	A,G
VFD 5	LVL2 - AREA G	1M2G	37,39,41	A,G
VFD 6	LVL2 - AREA G	1M2G	43,45,47	A,G
VFD 7	LVL2 - AREA G	1M2G	49,51,53	A,G
VFD 16	LVL2 - AREA G	1M2G	68,70,72	A,G
VFD 17	LVL2 - AREA G	1M2G	80,82,84	A,G
VFD 18	LVL2 - AREA G	1M2G	44,46,48	A,G
VFD 19	LVL2 - AREA G	1M2G	56,58,60	A,G

GENERAL NOTES:

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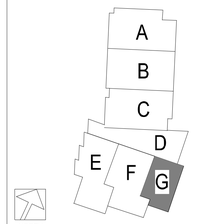
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ELECTRICAL PLAN NOTES:

E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

2 E95 PROVIDE EMERGENCY SHUTOFF BUTTON FOR BOILERS. PROVIDE WITH RED PLACARD ABOVE BUTTON STATING "BOILER EMERGENCY SHUTOFF" IN 1/4" WHITE LETTERING.

KEY PLAN



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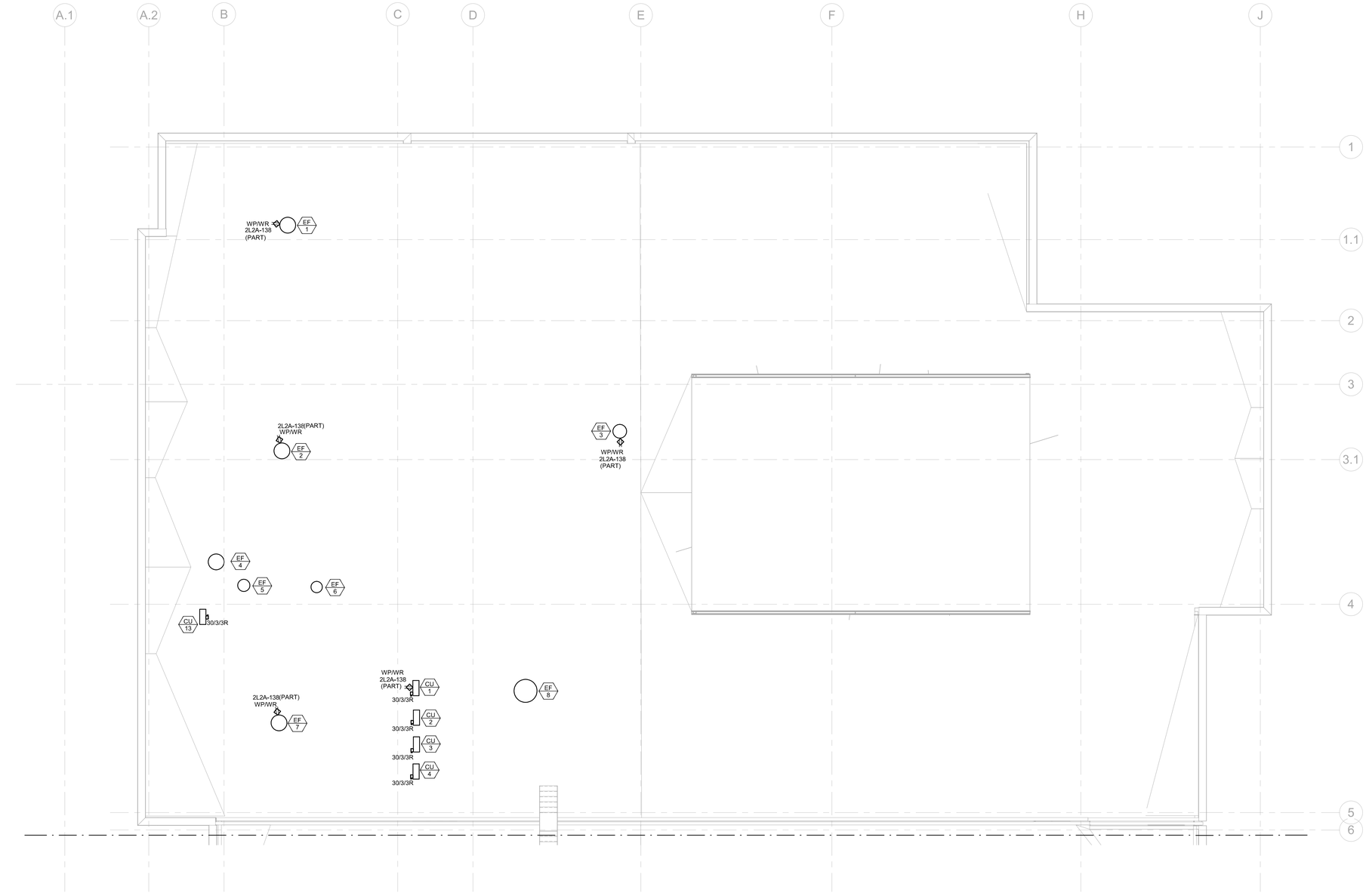
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EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA G

E3.2G

CURTIS A. OLDS



1 EQUIPMENT CONNECTION ROOF PLAN - AREA A
1/8" = 1'-0"

EQUIP CONN. - ROOF - AREA A

MARK	LOCATION	PANEL	CIRCUIT	NOTES
COMPUTER ROOM - OUTDOOR				
CU 1	ROOF - AREA A	2L2A	162,164	
CU 2	ROOF - AREA A	2L1A	162,164	
CU 3	ROOF - AREA A	2L1A	166,168	
CU 4	ROOF - AREA A	2L2A	166,168	
CU 13	ROOF - AREA A	2L2A	158,160	
FAN				
EF 1	ROOF - AREA A	2L2A	140	A
EF 2	ROOF - AREA A	2L2A	142	A
EF 3	ROOF - AREA A	2L2A	144	A
EF 4	ROOF - AREA A	2L2A	146	A
EF 5	ROOF - AREA A	2L2A	148	L
EF 6	ROOF - AREA A	2L2A	154	K
EF 7	ROOF - AREA A	2L2A	150	A
EF 8	ROOF - AREA A	2L2A	152,154	A

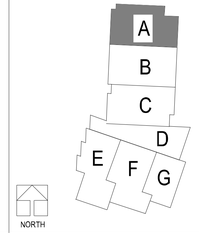
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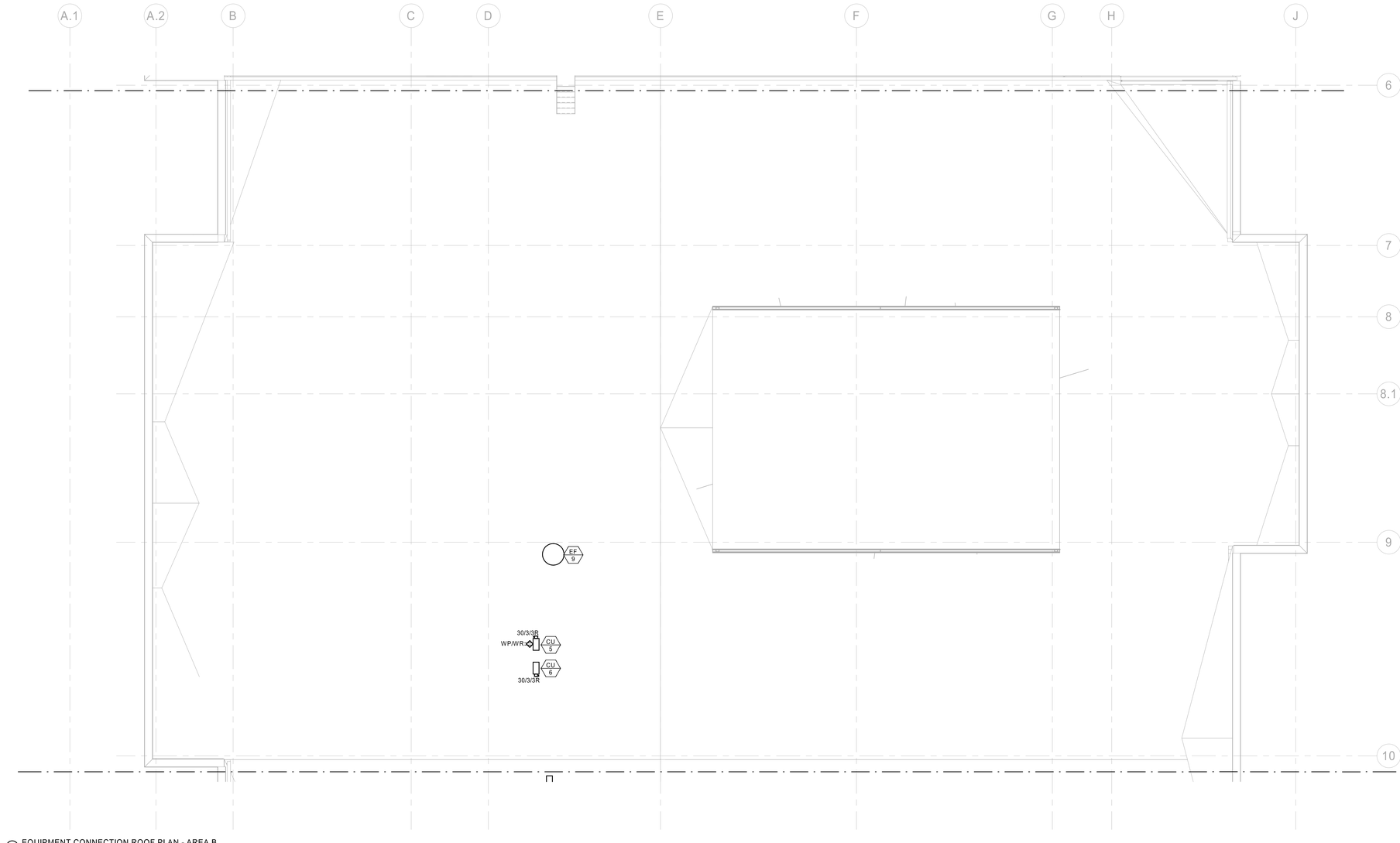
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EQUIPMENT CONNECTION ROOF PLAN - AREA A

E3.3A

CURTIS A. OLDS



1 EQUIPMENT CONNECTION ROOF PLAN - AREA B
1/8" = 1'-0"

EQUIP CONN. - ROOF - AREA B

MARK	LOCATION	PANEL	CIRCUIT	NOTES
COMPUTER ROOM - OUTDOOR				
CU 5	ROOF - AREA B	2L1B	166,168	
CU 6	ROOF - AREA B	2L2B	166,168	
FAN				
EF 9	ROOF - AREA B	2L2B	158,160	A

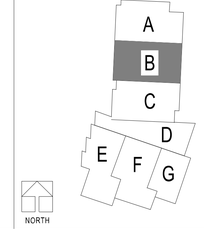
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EQUIPMENT CONNECTION ROOF PLAN - AREA B

E3.3B

CURTIS A. OLDS

GENERAL NOTES:

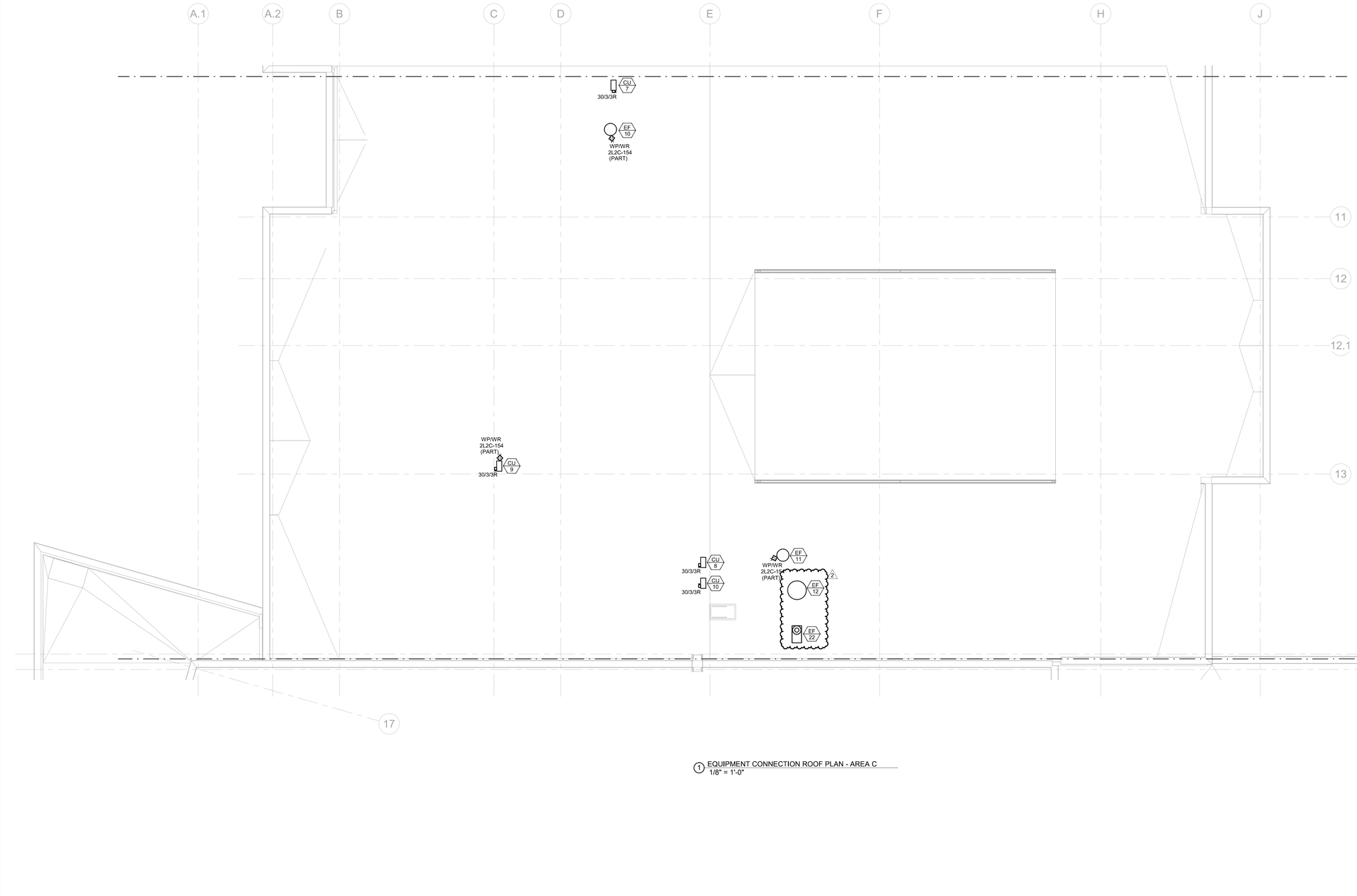
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EQUIP CONN. - ROOF - AREA C

MARK	LOCATION	PANEL	CIRCUIT	NOTES
COMPUTER ROOM - OUTDOOR				
CU 7	ROOF - AREA C	2L1C	166,168	
CU 8	ROOF - AREA C	2L1C	162,164	
CU 9	ROOF - AREA C	2L2C	162,164	
CU 10	ROOF - AREA C	2L2C	166,168	
FAN				
EF 10	ROOF - AREA C	2L2C	158	A
EF 11	ROOF - AREA C	2L2C	160	A
EF 12	ROOF - AREA C	2L2C	134,136	A
EF 22	ROOF - AREA C	2H2C	26,28,30	A



1 EQUIPMENT CONNECTION ROOF PLAN - AREA C
1/8" = 1'-0"

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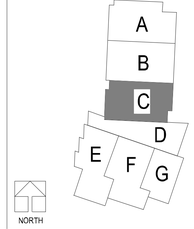
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EQUIPMENT CONNECTION ROOF PLAN - AREA C

E3.3C

CURTIS A. OLDS

GENERAL NOTES:

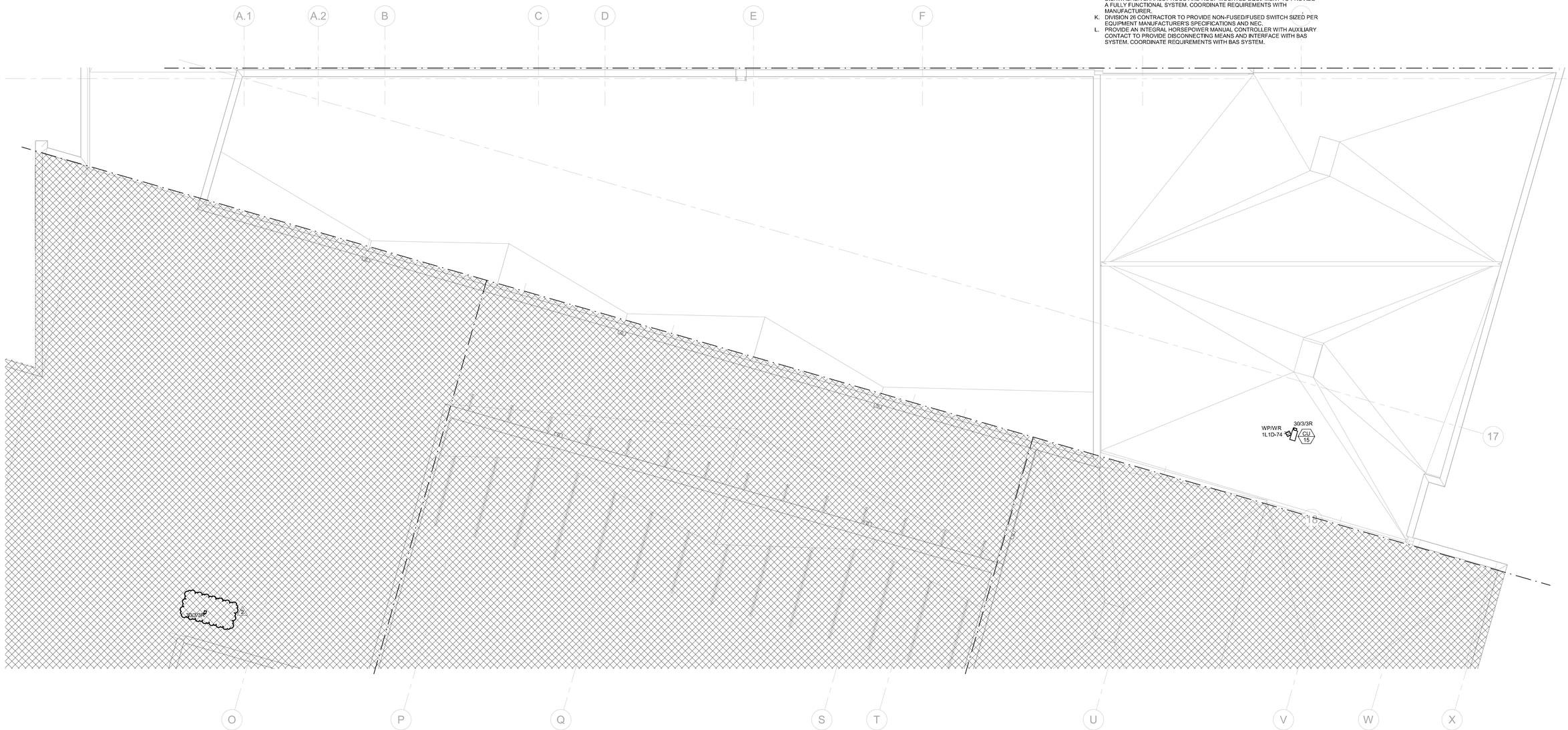
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B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS.
C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.
D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.
E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS.
F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).
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I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.
L. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

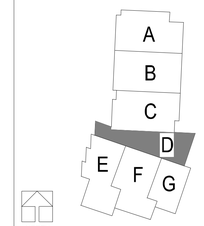
EQUIP CONN. - ROOF - AREA D

MARK	LOCATION	PANEL	CIRCUIT	NOTES
COMPUTER ROOM - OUTDOOR				
CU 15	ROOF - AREA D	1L1D	76,78	



1 EQUIPMENT CONNECTION ROOF PLAN - AREA D
1/8" = 1'-0"

KEY PLAN



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STATE OF MISSOURI
CURTIS A. OLDS
NUMBER PE-2018036640
PROFESSIONAL ENGINEER

Oct 19 2020
CURTIS A. OLDS
LICENSE # PE-2018036640

15

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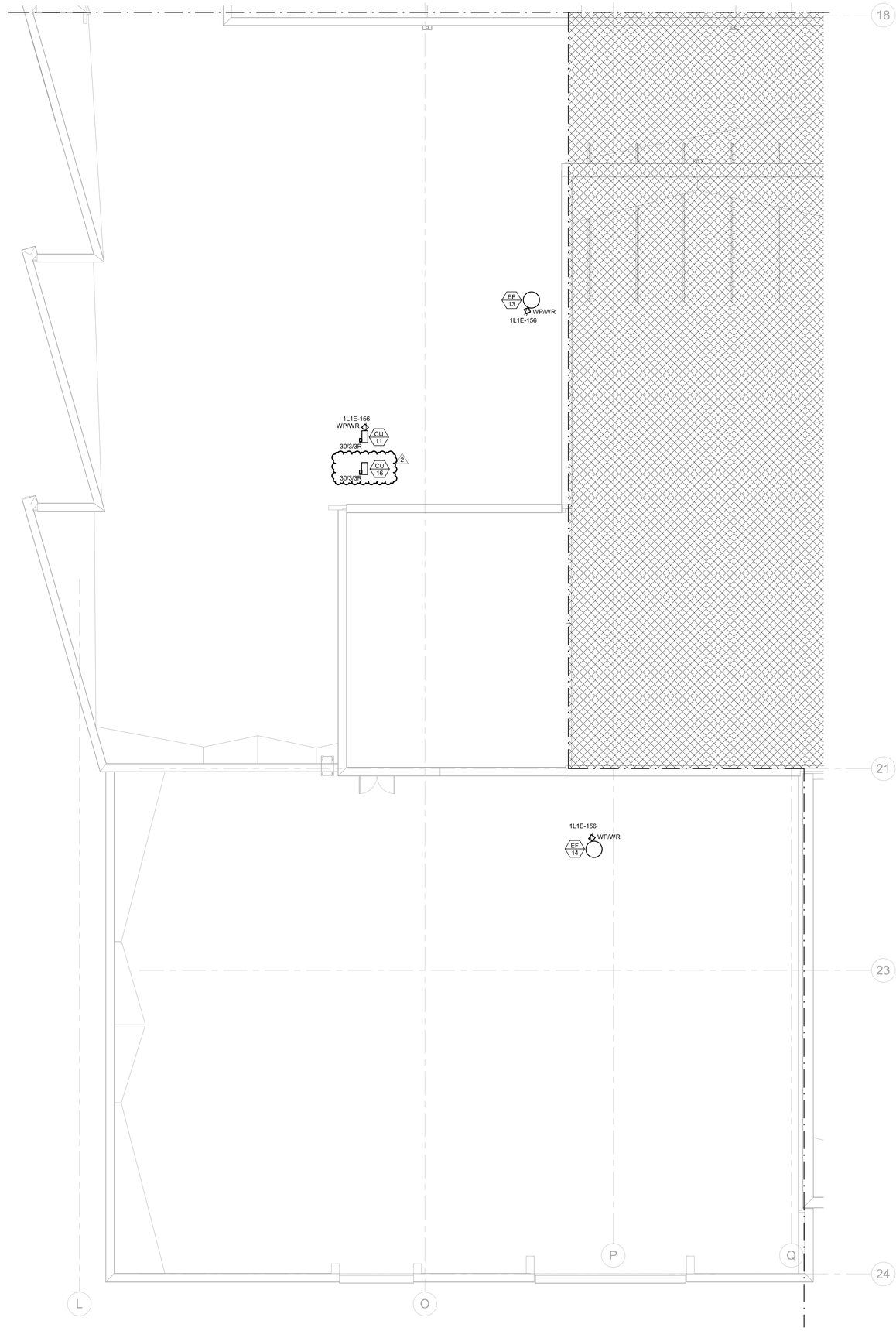
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REVISIONS
ADDENDUM 002 10/19/20

13-20102-00

EQUIPMENT CONNECTION ROOF PLAN - AREA D

2
E3.3D

CURTIS A. OLDS



1 EQUIPMENT CONNECTION ROOF PLAN - AREA E
1/8" = 1'-0"

EQUIP CONN. - ROOF - AREA E

MARK	LOCATION	PANEL	CIRCUIT	NOTES
COMPUTER ROOM - OUTDOOR				
CU 11	ROOF - AREA E	1L1E	156,158	
CU 16	ROOF - AREA E	1L1E	136,138	
FAN				
EF 13	ROOF - AREA E	1L1E	162	A
EF 14	ROOF - AREA E	1L1E	160	A

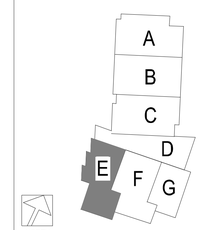
GENERAL NOTES:

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

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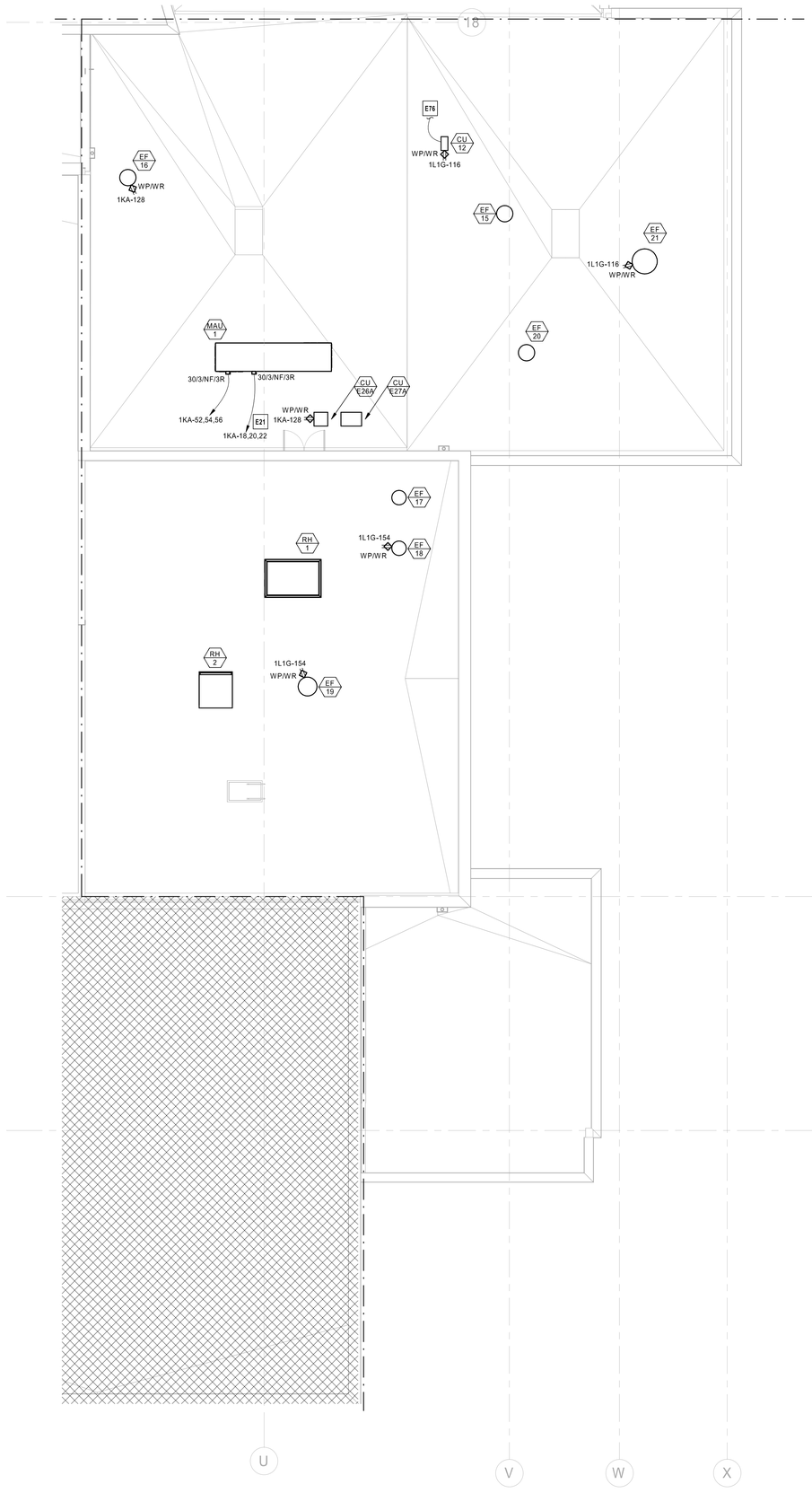
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EQUIPMENT CONNECTION ROOF PLAN - AREA E

E3.3E

CURTIS A. OLDS



1 EQUIPMENT CONNECTION ROOF PLAN - AREA G
1/8" = 1'-0"

EQUIP CONN. - ROOF - AREA G

MARK	LOCATION	PANEL	CIRCUIT	NOTES
COMPUTER ROOM - OUTDOOR				
CU 12	ROOF - AREA G	1L1G	166,168	K
FAN				
EF 15	ROOF - AREA G	1L1G	130	A
EF 16	ROOF - AREA G	1KA	83	A,J
EF 17	ROOF - AREA G	1KA	85,87	A,I
EF 18	ROOF - AREA G	1KA	89,91	A,I
EF 19	ROOF - AREA G	1L1G	134	A
EF 20	ROOF - AREA G	1L1G	136	A
EF 21	ROOF - AREA G	1L1G	138	A
FOOD SERVICE				
CU E26A	ROOF - AREA G	1KA	40,42,44	K
CU E27A	ROOF - AREA G	1KA	46,48,50	K
RTU				
MAU 1	ROOF - AREA G	1KA	52,54,56	H,K

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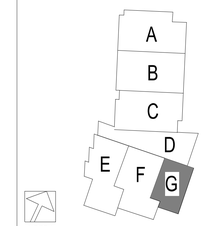
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ELECTRICAL PLAN NOTES:

E21 ROUTE CIRCUIT FOR MAKEUP AIR UNIT SUPPLY FAN THROUGH THE HOOD CONTROL PANEL. REFER TO SHEET E4.1 FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH MANUFACTURER.
E76 ROUTE CIRCUIT TO ASSOCIATED INDOOR UNIT. REFER TO MECHANICAL PLANS FOR MORE INFORMATION.

KEY PLAN



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EQUIPMENT CONNECTION ROOF PLAN - AREA G

E3.3G

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