# ABV,A AD ADA AFF/AFG AHU BF C CATV CCTV CKT CB CLG	NUMBER ABOVE ACCESS DOOR AMERICANS WITH DISABILITIES ACT ABOVE FINISHED FLOOR/GRADE AIR HANDLING UNIT BELOW FLOOR CONDUIT CABLE TELEVISION CIRCUIT	SPEC SW SWBD TEL TV TYP UG UL UON	SPECIFICATION(S) SWITCH SWITCHBOARD TELEPHONE TELEVISION TYPICAL UNDERGROUND UNDERWRITERS' LABORATORIES
AD ADA AFF/AFG AHU BF C CATV CCTV CKT CB	ACCESS DOOR AMERICANS WITH DISABILITIES ACT ABOVE FINISHED FLOOR/GRADE AIR HANDLING UNIT BELOW FLOOR CONDUIT CABLE TELEVISION CLOSED CIRCUIT TELEVISION	SWBD TEL TV TYP UG UL UON	SWITCHBOARD TELEPHONE TELEVISION TYPICAL UNDERGROUND
ADA AFF/AFG AHU BF C CATV CCTV CKT CB	AMERICANS WITH DISABILITIES ACT ABOVE FINISHED FLOOR/GRADE AIR HANDLING UNIT BELOW FLOOR CONDUIT CABLE TELEVISION CLOSED CIRCUIT TELEVISION	TEL TV TYP UG UL UON	TELEPHONE TELEVISION TYPICAL UNDERGROUND
AFF/AFG AHU BF C CATV CCTV CKT CB	ABOVE FINISHED FLOOR/GRADE AIR HANDLING UNIT BELOW FLOOR CONDUIT CABLE TELEVISION CLOSED CIRCUIT TELEVISION	TV TYP UG UL UON	TELEVISION TYPICAL UNDERGROUND
AHU BF C CATV CCTV CKT CB	AIR HANDLING UNIT BELOW FLOOR CONDUIT CABLE TELEVISION CLOSED CIRCUIT TELEVISION	TYP UG UL UON	TYPICAL UNDERGROUND
BF C CATV CCTV CKT CB	BELOW FLOOR CONDUIT CABLE TELEVISION CLOSED CIRCUIT TELEVISION	UG UL UON	UNDERGROUND
C CATV CCTV CKT CB	CONDUIT CABLE TELEVISION CLOSED CIRCUIT TELEVISION	UL	
CATV CCTV CKT CB	CABLE TELEVISION CLOSED CIRCUIT TELEVISION	UON	UNDERWRITERS' LABORATORIES
CCTV CKT CB	CLOSED CIRCUIT TELEVISION		
СКТ			UNLESS OTHERWISE NOTED
СВ	CIRCUIT	W/	WITH
		W	WEATHERPROOF (DEVICE OR ENCLOSURE)
CLG	CIRCUIT BREAKER	XMFR, T	TRANSFORMER
	CEILING	1/E2	DETAIL 1 ON SHEET E2
CONC	CONCRETE		
CONT	CONTINUATION, CONTRACTOR		RISER OR CONDUIT TURNED DOWN
Ģ.	CENTERLINE		RISER OR CONDUIT TURNED UP
DISC SW,	DISCONNECT SWITCH		CAP ON PIPE OR OPEN CONDUIT END
DWG	DRAWING		TEST PORT
ELEC, E	ELECTRIC, ELECTRICAL	A-1,3,5	HOMERUN WITH BRANCH CIRCUIT(S) AS INDICATED
ELEV	ELEVATION	\$ 3	LIGHT SWITCH, SPST, 20A. NUMBER INDICATES 3-WAY, 4-WA
EXH	EXHAUST	\$ b	LIGHT SWITCH, SPST, 20A. LETTER INDICATES CONTROL ZO
(E), EXIST	EXISTING TO REMAIN	\$ _D	WALLBOX DIMMER SWITCH
FLR	FLOOR	\$ _P	LIGHT SWITCH, PILOT LIGHT "ON", 20A
FT	FEET	\$ _K	LIGHT SWITCH, KEY-OPERATED, 20A
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	\$ _M	MANUAL MOTOR STARTER SWITCH W/OL
GFP	GROUND FAULT PROTECTION	\$ _{OS}	DUAL TECHNOLOGY OCCUPANCY SENSOR - WALL MOUNTED
GND, G	GROUND	(S)	DUAL TECHNOLOGY OCCUPANCY SENSOR - CEILING MOUNT
HP	HORSE POWER	P	PHOTOELECTRIC CELL
HZ	HERTZ	J	JUNCTION BOX (J-BOX OR JB)
IN	INCHES	→ w	NEMA 5-20R DUPLEX RECEPTACLE OR SAME IN WEATHERPROOF ENCLOSURE
JST	JOIST	→ G	NEMA 5-20R DUPLEX RECEPTACLE,
MAX	MAXIMUM	→ A	GROUND FAULT CIRCUIT INTERRUPTER TYPE NEMA 5-20R DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER, SEE 1/MEP-1
MCC	MOTOR CONTROL CENTER	⇒clg	NEMA 5-20R DUPLEX RECEPTACLE
MDP	MAIN DISTRIBUTION PANEL	⊕	MOUNTED IN CEILING NEMA 5-20R QUADPLEX RECEPTACLE,
MECH, M	MECHANICAL	₩	(2 DUPLEX RECEPS IN A 2-GANG BOX) NEMA 5-20R ISOLATED GROUND QUADPLEX
MIN	MINIMUM		RECEPTACLE, ORANGE COLOR SPECIAL OUTLET - SEE DEVICE SCHEDULE
MSG	MAIN SWITCHGEAR	\otimes	
		Ψ	MOTOR OUTLET/CONNECTION ELECTRICAL 480V PANELBOARD
MTD	MOUNTED		
NC	NORMALLY CLOSED		ELECTRICAL 208V PANELBOARD DISCONNECT SWITCH FUSIBLE UNLESS
NEC	NATIONAL ELECTRIC CODE, NFPA 70		OTHERWISE NOTED DISCONNECT SWITCH NON FUSIBLE UNLESS
NIC	NOT IN CONTRACT		OTHERWISE NOTED CONTACTOR/MAGNETIC MOTOR STARTER OR
NO	NORMALLY OPEN		COMBINATION TYPE SURFACE MOUNTED RACEWAY WITH POWER/ DATA
NTS	NOT TO SCALE		ASSEMBLIES.
ОН	OVERHEAD		
PLBG	PLUMBING	FACP	FIRE ALARM CONTROL PANEL
PNL	PANELBOARD, PANEL	FAAP	FIRE ALARM ANNUCIATOR PANEL
PSI	POUNDS PER SQUARE INCH	▼	TELEPHONE OUTLET
PVC	POLYVINYL CHLORIDE	∇	DATA OUTLET

ELECTRICAL OUTLINE SPECIFICATIONS:

- 1. ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE ADOPTED EDITIONS OF THE INTERNATIONAL BUILDING (IBC), ELECTRICAL (NEC), AND FIRE (IFC) CODES, ENERGY (IECC), NFPA 13, 70, 72, 90A, 101 AND ALL LOCAL AMENDMENTS AND REGULATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE DRAWINGS AND SHALL BE PERFORMED WITH THE LATEST INDUSTRY ACCEPTED STANDARDS. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND APPLICABLE CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED, ALL WORK SHALL BE CONDUCTED IN A SAFE MANNER WITH ADEQUATE PROTECTION FOR THE NEW WORK, EXISTING PROPERTY, AND THE GENERAL PUBLIC.
- CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF EXISTING CONDITIONS, NEW WORK, PATCHING, ETC., REQUIRED BY THE PROJECT, AND TO BECOME FAMILIAR WITH THE WORK CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK INDICATED OR REQUIRED; FOR WORK PROVIDED DURING NON-STANDARD HOURS; FOR WORK REQUIRED TO MAINTAIN BUILDING SAFETY AND FUNCTION; FOR WORK TO PATCH/REPAIR BUILDING SYSTEMS AND FINISHES; OR ANY OTHER WORK RESULTING FROM REQUIRED NEW WORK, RECONNECTION, AND/OR DEMOLITION OPERATIONS.
- 3. THE WORK REQUIRED IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS. IT IS IMPRACTICAL TO INDICATE ALL REQUIRED MODIFICATIONS AND PATCHING IN EVERY DETAIL. IT IS THE INTENT OF THIS PROJECT TO EXTEND EXISTING SYSTEMS AND PROVIDE NEW SYSTEMS AS INDICATED, COMPLETE IN EVERY RESPECT WHETHER OR NOT SPECIFICALLY DETAILED. INFORMATION ON EXISTING UTILITIES, BUILDINGS, AND SITE LAYOUT HAS BEEN TAKEN FROM OWNER'S & CIVIL ENGINEER'S DRAWINGS AND LIMITED SITE SURVEYS. LOCATIONS, SIZES, QUANTITIES, ETC., ARE APPROXIMATE & ARE INDICATED TO ASSIST IN OUTLINING THE SCOPE OF THE WORK. CONTRACTOR ACKNOWLEDGES THAT EXISTING CONDITIONS HAVE BEEN VERIFIED AND ARE ACCEPTABLE. VARIATIONS IN ACTUAL SITE CONDITIONS AND CONCEALED CONSTRUCTION SHALL BE BROUGHT TO OWNER'S ATTENTION FOR RESOLUTION PRIOR TO COMMENCING APPLICABLE WORK.
- 4. THESE DRAWINGS DIAGRAMMATICALLY INDICATE THE INTENT OF THE PROPOSED CONSTRUCTION. SLIGHT VARIATIONS IN TENANT'S FURNITURE AND SITE CONDITIONS MAY REQUIRE OUTLETS TO BE RELOCATED TO ACCOMMODATE THE ACTUAL FURNITURE AND/OR OUTLETS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL OUTLETS WITH OWNER'S REPRESENTATIVE, PERFORMING ADJUSTMENTS TO OUTLET LOCATIONS AS REQUIRED FOR A FINISHED AND FUNCTIONAL SYSTEM.
- PROTECT EXISTING CONSTRUCTION & COMPONENTS WHICH ARE TO REMAIN. REPAIR, TO PRE-DISTURBED CONDITION, ANY DAMAGE RESULTING FROM DEMOLITION OR NEW CONSTRUCTION OPERATIONS. CONCEALED CONDITIONS MAY EXIST THAT WILL REQUIRE MINOR REVISIONS IN ARRANGEMENT OF PIPING, VALVES, ATTACHMENTS, CONDUIT, ETC. EXISTING UTILITIES DAMAGED BY CONTRACTOR DURING NEW PIPING, CONDUIT OR EQUIPMENT INSTALLATION SHALL BE REPAIRED TO OWNER'S SATISFACTION.
- 6. ELECTRICAL EQUIPMENT INSTALLATIONS SHALL BE IN FULL ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL MEET CURRENT INDUSTRY STANDARDS. WHERE APPLICABLE, EQUIPMENT SHALL BEAR TESTING LABORATORY LABELS. TEST ALL EQUIPMENT FOR PROPER OPERATION. ALL NEW MATERIALS AND EQUIPMENT SHALL BE OF FIRST QUALITY AND FREE FROM DEFECTS.
- 7. CONTRACTOR SHALL SUBMIT PRODUCT DATA OF ALL PROPOSED MATERIALS AND EQUIPMENT FOR APPROVAL.
- 8. ALL NECESSARY PERMITS, LICENSES, CERTIFICATES, TESTS, ETC., SHALL BE OBTAINED BY THE CONTRACTOR, INCLUDED IN THE PROJECT COST AND BID, WITHOUT ADDITIONAL COST TO THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL UPDATE RECORD DRAWINGS DAILY. ANNOTATE "AS INSTALLED" CONDITIONS IN RED INK ON HARD COPIES, INDICATING ALL CHANGES FROM THE ORIGINAL DRAWINGS MADE DURING THE INSTALLATION OF THE WORK. AT COMPLETION OF THE PROJECT, THE RECORD DRAWINGS SHALL BE DELIVERED TO THE OWNER'S
- 10. THE CONTRACTOR SHALL PROVIDE A MINIMUM ONE YEAR WARRANTY ON ALL MATERIALS AND LABOR. UNLESS NOTED OTHERWISE.
- 11. CONDITIONS MAY OCCUR THAT WILL REQUIRE MINOR REVISIONS IN ARRANGEMENT OF DUCTWORK, ATTACHMENTS, CONDUIT, ETC., ON VARIOUS SYSTEMS. SUCH MODIFICATIONS ARE DEEMED A PART OF THIS CONTRACT, AND SHALL BE SUBMITTED FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
- 12. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT (A.D.A.) AND ALL STATE REQUIREMENTS.
- 13. REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL & LANDSCAPE DRAWINGS FOR ADDITIONAL REQUIREMENTS. SEE SEPARATE PROJECT MANUAL FOR GENERAL CONDITIONS AND SPECIFICATIONS, IF APPLICABLE. WHERE DISCREPANCIES OCCUR BETWEEN THESE DRAWINGS AND THE PROJECT MANUAL, THE LATTER SHALL BE FOLLOWED, COORDINATE
- 14. IN THE EVENT OF SUBSTITUTION OF EQUIPMENT, IT SHALL BE THE RESPONSIBILITY OF THE SUBSTITUTING CONTRACTORS TO COORDINATE ADDITIONAL REQUIREMENTS FOR THESE ALTERATIONS. THE SUBSTITUTING CONTRACTORS SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL EQUIPMENT, CONDUCTORS, BOXES, CONDUIT, ADJUST OVER-CURRENT PROTECTION DEVICES, PROVIDE ADDITIONAL OCPD, LABOR, ADJUST CONDUCTOR SIZES, ADJUST CONDUCTOR QUANTITIES, AND OTHER NECESSARY APPURTENANCES AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM PER THE MANUFACTURER'S RECOMMENDATIONS. INCLUDE ALL COSTS IN BASE BID.
- 15. SUBMITTAL PROCESS AND SUBSTITUTIONS ENGINEER WILL ONLY REVIEW QUANTITY (1) ONE SUBSTITUTE SUBMITTAL PACKAGE. IF THE SUBMITTED SUBSTITUTED PACKAGE DOES NOT MEET OR EXCEED THE SPECIFIED PACKAGE IN QUALITY AND PERFORMANCE, THE SPECIFIED PACKAGE (IN ENTIRETY) SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. PRIOR APPROVAL SUBMITTALS ARE NOT REQUIRED FOR BIDDING PURPOSES. LIGHT FIXTURE PACKAGES SHALL BE PROVIDED BY SUPPLIERS WITHIN THE STATE IN WHICH THE PROJECT IS CONSTRUCTED. NO OUT OF STATE SUPPLIERS LIGHTING PACKAGES WILL BE ACCEPTED.

PART 2 - PRODUCTS

1.1. ELECTRICAL SYSTEM PENETRATIONS THROUGH NEW & EXISTING WALLS, FLOOR/CEILING, OR ROOF CONSTRUCTION SHALL BE THOROUGHLY FILLED WITH FIRE RESISTANT MATERIAL (STUFFING FIBRE-FLAX DURA BLANKET IN CAVITIES) AND SEALED WITH 3M BRAND FIRE BARRIER CAULK, CP25. ALL FIRE STOPPING SHALL BE EQUAL TO OR BETTER THAN ASSEMBLY PENETRATED. PENETRATION OF ALL FIRE BARRIERS SHALL NOT IMPAIR THE INTEGRITY OF THE BARRIER. ALL SLEEVED OPENINGS SHALL BE FINISHED IN SUCH A MANNER THAT MAINTAINS THE FIRE RESISTANCE.

CONDUCTORS / CABLES

2.1. MC CABLE SHALL ONLY BE ALLOWED WITHIN WALLS AND IN 6 FOOT WHIPS TO RECESSED LIGHTING FIXTURES. FROM POWER SOURCE TO FIRST WIRING DEVICE

ALL CONDUCTORS ON ALL WIRING SYSTEMS SHALL BE COPPER. #10 AND SMALLER SHALL BE SOLID.

SERVED SHALL BE IN CONDUIT.

- #12 MINIMUM FOR POWER CIRCUITS; #14 MINIMUM FOR CONTROLS.
- THHN, THWN OR THW INSULATION AS APPLICABLE TO THE CONDITIONS ALL POWER WIRING SYSTEMS SHALL CONTAIN A "GREEN WIRE" INSULATED GROUND CONDUCTOR WITHIN THE RACEWAY SIZED IN ACCORDANCE WITH NEC ARTICLE 250. IN NO CASE SHALL THE METALLIC RACEWAY ALONE BE USED AS A GROUNDING

2.7. ELECTRICAL WIRING COLOR CODING SHALL BE IN ACCORDANCE WITH NEC AND ANY

- ALL DEVICE AND JUNCTION BOXES SHALL BE GALVANIZED STEEL OR CAST METAL TYPE.
- 4.1. BELOW GRADE / CAST IN CONCRETE
- 1" MINIMUM SCH 40 PVC. PROVIDE PVC COATED RIGID ELLS AND RISERS FOR ALL CONDUIT GREATER THAN
- INDOOR / DRY EMT CONDUIT WITH SET SCREW COUPLINGS/CONNECTORS.
- EXTERIOR / WET RIGID GALVANIZED CONDUIT WITH THREADED CONNECTIONS. 4.4. ALL HOMERUNS SHALL BE IN CONDUIT.
- ROUTE ALL RACEWAY PARALLEL AND PERPENDICULAR TO STRUCTURE.
- UTILIZE LIQUID TIGHT FLEXIBLE METAL CONDUIT TO SERVE VIBRATING EQUIPMENT. MC CABLE NOT ACCEPTABLE UNLESS NOTED OTHERWISE.

5. WIRING DEVICES AND PLATES

- 5.1. ALL POWER RECEPTACLE WIRING DEVICES SHALL BE TAMPER RESISTANT AND RATED MINIMUM 20A AND SHALL BE COMMERCIAL GRADE, HEAVY DUTY, GROUNDING TYPE.
- COVERPLATES: WHITE, THERMOPLASTIC, UNLESS INDICATED OTHERWISE BY ARCHITECT. DIMMERS SHALL BE COMPATIBLE WITH SPECIFIED LIGHT FIXTURES TO BE CONTROLLED.
- VERIFY MINIMUM AND MAXIMUM LOAD LIMITS OF DIMMER SERVE THE INTENDED FLOOR POKE-THROUGHS SHALL BE FIRE RATED WITH FLUSH POKE THROUGH AND

CONDUIT ADAPTER WHERE INDICATED ON DRAWINGS.

- PANELS / GEAR 6.1. SQUARE D, SIEMENS, EATON. LOAD CENTERS ARE NOT ACCEPTABLE.
- THERMAL MAGNETIC BOLT-ON TYPE BREAKERS. IF POWER FOR NEW CIRCUITS IS TO BE DERIVED FROM EXISTING PANELBOARDS, RE-USE BREAKERS AND/OR PROVIDE NEW MATCHING BREAKERS AS REQUIRED FOR NEW CIRCUITS.

7.1. BUSSMAN, LITTELFUSE, MERSON. 7.2. CLASS RK5 OR AS REQUIRED BY MANUFACTURERS EQUIPMENT RECOMMENDATIONS.

8.1. SAME MANUFACTURERS AS OTHER ELECTRICAL DISTRIBUTION EQUIPMENT. HEAVY DUTY RATED WITH GROUND KIT.

- 9.1. BASIS OF DESIGN FIXTURE LISTED IN SCHEDULE. SUBSTITUTIONS WELCOME; HOWEVER, THEY MUST MEET OR EXCEED SPECIFIED FIXTURES IN PERFORMANCE AND AESTHETICS AS DETERMINED BY THE DESIGN TEAM.
- INTERIOR FIXTURES SHALL BE 5000K COLOR TEMPERATURE THRU-OUT. EXTERIOR FIXTURES SHALL BE 4000K COLOR TEMPERATURE.
- ALL FIXTURES SHALL CARRY 5 YEAR WARRANTY.
- PROVIDE ALL ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION. 9.5. MC CABLE ALLOWED 6'-0" FROM FIXTURE FOR FINAL CONNECTION.

- 1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING TEMPORARY SERVICE FOR CONSTRUCTION. E.C. SHALL ENDURE ALL ASSOCIATED COSTS.
- LIGHTING FIXTURES SHOWN ON THE DRAWINGS ARE DIAGRAMMATICAL AND ARE NOT INTENDED FOR EXACT PLACEMENT. FINAL LIGHTING FIXTURE LOCATIONS (INTERIOR AND EXTERIOR) SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER FOR FINAL FINISH, LOCATION, LAMP COLOR, ETC. PRIOR TO ROUGH-IN AND PURCHASE OF EQUIPMENT.
- 3. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTION REQUIREMENTS OF OWNER-FURNISHED EQUIPMENT & EQUIPMENT FURNISHED BY OTHERS. PROVIDE NECESSARY MATERIAL AND LABOR FOR A COMPLETE INSTALLATION.
- 4. ALL PATCHING AND PAINTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE PATCHING AND PAINTING AS A RESULT OF MECHANICAL AND ELECTRICAL ALTERATIONS, CHANGES, AND ADDITIONS. COORDINATE WITH ARCHITECT
- 5. THE CONTRACTOR SHALL MODIFY, REMOVE AND/OR RELOCATE ALL MATERIALS AND ITEMS INDICATED ON THE DRAWINGS OR REQUIRED BY THE INSTALLATION OF NEW SYSTEMS/EQUIPMENT. ALL REMOVALS AND/OR DISMANTLING SHALL BE CONDUCTED IN A MANNER TO PRODUCE MAXIMUM SALVAGE. SALVAGE MATERIALS SHALL BE DISPOSED OF OFF-SITE, EXCEPT THAT THE OWNER RESERVES THE RIGHT TO SELECT AND RETAIN ANY DESIRED SALVAGE ITEMS. CONTRACTOR SHALL VERIFY WITH OWNER PRIOR TO REMOVING SALVAGED MATERIALS FROM SITE. MATERIALS AND/OR ITEMS SCHEDULED FOR RELOCATION AND WHICH ARE DAMAGED DURING DISMANTLING OR REASSEMBLING OPERATIONS SHALL BE REPAIRED AND RESTORED TO GOOD OPERATIVE CONDITION. THE CONTRACTOR MAY SUBSTITUTE NEW MATERIALS AND/OR ITEMS OF A LIKE DESIGN AND EQUAL QUALITY IN LIEU OF MATERIALS AND/OR ITEMS TO BE RELOCATED.
- CONCEAL ALL PIPING AND CONDUIT IN FINISHED AREAS UNLESS OTHERWISE NOTED. ALL PIPING, DEVICES, APPARATUS, EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED AND BRACED VERTICALLY AND HORIZONTALLY IN ACCORDANCE WITH CODES AND AS REQUIRED TO PREVENT EXCESSIVE MOVEMENT.
- 7. COORDINATE CEILING MOUNTED FIXTURES, DEVICES, ETC., WITH MECHANICAL DRAWINGS AND ARCHITECT'S REFLECTED CEILING PLAN DRAWINGS FOR EXACT LOCATIONS OF
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL WIRING AND CONDUIT, AND OTHER SYSTEMS SPECIFIED AND REQUIRED IN THE PROJECT. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES BETWEEN MECHANICAL AND ELECTRICAL EQUIPMENT. DUCTS, PIPES, OR EQUIPMENT SHALL NOT INTRUDE ON ELECTRICAL CLEARANCE SPACE AS DEFINED IN THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.
- 9. CONTRACTOR SHALL SEQUENCE WORK TO MINIMIZE DOWNTIME & OUTAGES. COORDINATE INTERRUPTION OF ANY UTILITY WITH OWNER. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL WIRING AND CONDUIT, AND OTHER SYSTEMS SPECIFIED AND REQUIRED IN THE BUILDING.
- CORING SLAB PENETRATIONS FOR PIPING/CONDUIT AND DRILLING OF THE STRUCTURE FOR EQUIPMENT ANCHORAGE SHALL NOT BE PERFORMED WITHOUT THE PRIOR APPROVAL OF OWNER AND STRUCTURAL ENGINEER.
- 11. WHERE BACK-TO-BACK WALL MOUNTED DEVICES ARE INDICATED, SEPARATE ADJACENT OUTLET BOXES SHALL BE USED. THRU-WALL BOXES ARE NOT ACCEPTABLE FOR ANY
- 12. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT. ALL LOW VOLTAGE WIRING SHALL USE PLENUM-RATED CABLE.
- 13. WIRING DEVICES INDICATED OR FOUND TO BE EXISTING SHALL BE VERIFIED FOR PROPER OPERATION, SAFETY AND APPLICATION PRIOR TO REUSE.
- 14. CONTRACTOR SHALL REMOVE ALL CONDUCTORS IN WALLS, ABOVE CEILINGS AND BELOW FLOORS THAT WILL NO LONGER SERVE EQUIPMENT. REMOVE ALL UNUSED CONDUITS

WHERE POSSIBLE

- 15. ALL RACEWAYS SHALL BE SUPPORTED AND ATTACHED IN ACCORDANCE WITH THE NEC.
- 16. PROVIDE A TYPED PANEL DIRECTORY FOR EACH NEW AND EXISTING PANEL AFFECTED BY THIS PROJECT. DIRECTORY SHALL IDENTIFY THE CIRCUIT NUMBER AND EQUIPMENT SERVED. PENCIL IN "SPARE" FOR UNUSED BRANCH OVER CURRENT DEVICES AND LEAVE "SPACES" BLANK FOR FUTURE USE.
- 17. CIRCUIT NUMBERS WHERE INDICATED ARE FOR REFERENCE AND MAY NOT COINCIDE WITH AVAILABLE OR FINAL CIRCUITS USED. CONTRACTOR SHALL NOTE ACTUAL CIRCUITS USED ON PANEL DIRECTORY CARDS AND RECORD DRAWINGS. UPDATE CIRCUIT DIRECTORY CARDS IN NEW AND PANELS AFFECTED BY THE WORK OF THIS PROJECT.
- 18. ON ALL NEW AND TELEPHONE AND DATA/COMMUNICATION DEVICE BOXES, CONTRACTOR SHALL PROVIDE EMPTY CONDUIT TO ABOVE CEILING AND INSTALL PULL STRING, UNLESS NOTED OTHERWISE.
- 19. PROVIDE MINIMUM 200 POUND TEST STRENGTH NYLON PULL CORDS IN ALL EMPTY CONDUIT SYSTEMS WITH LABELS ON CORDS INSIDE ALL JUNCTION BOXES.
- 20. ALL NEW WIRING DEVICES SHALL BE FLUSH MOUNTED WHEREVER POSSIBLE. MULTIPLE DEVICES SHALL BE MOUNTED IN GANGS WITH A COMMON GANG DEVICE PLATE. ALL DEVICES AND COVER PLATES SHALL MATCH WHERE APPLICABLE. COORDINATE WITH ARCHITECT FOR FINAL DEVICE AND FACEPLATE FINISHES.
- 21. CONTRACTOR SHALL VERIFY CIRCUITRY IN CONDUITS TO ASSURE THAT ALL AREAS OUTSIDE PROJECT BOUNDARIES REMAIN IN SERVICE, WHERE APPLICABLE.
- 22. ALL SWITCHES AND CONTROLS SHALL BE MOUNTED 48" TO TOP OF BOX, UNLESS NOTED OTHERWISE. ALL RECEPTACLES SHALL BE MOUNTED 18" AFF TO BOTTOM OF BOX, UNLESS NOTED OTHERWISE.
- 23. WHERE RELOCATED OR NEW LIGHTING FIXTURES ARE TO BE CONNECTED TO CIRCUITING OF ADJACENT FIXTURES, CONTRACTOR SHALL VERIFY EACH 20A CIRCUIT DOES NOT EXCEED 1800 VA (120V) OR 4400 VA (277V) OF LOAD UNLESS APPROVED BY ENGINEER. LIGHTING SHALL BE CONNECTED USING NEW AND/OR EXISTING WIRING/CONDUIT AS APPLICABLE, AND SHALL BE CONTROLLED IN SIMILAR ZONE SWITCHING ARRANGEMENT AS EXISTING
- 24. COORDINATE MOUNTING LOCATIONS OF ALL LIGHT SWITCHES, EXIT SIGNS, ETC., WITH ARCHITECT'S DRAWINGS AND SITE CONDITIONS PRIOR TO ROUGH-IN.
- 25. FIXTURES AND SWITCHES FOUND TO BE EXISTING AND NOT INDICATED TO BE RE-USED AS INSTALLED SHALL BE REMOVED WITH CEILING/WALL PATCHED AND PAINTED OR BLANK COVER PLATE PROVIDED AS REQUIRED, CONFIRM.
- 26. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS, QUANTITIES, AND ELECTRICAL CONNECTION REQUIREMENTS OF EQUIPMENT. REFER TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS SCHEDULE FOR MECHANICAL AND PLUMBING EQUIPMENT POWER REQUIREMENTS AND CIRCUITING.

GENERAL

- 27.1. WIRING DEVICES (TOGGLE SWITCHES, RECEPTACLES, ETC) PROVIDE AND INSTALL CLEAR LABELS WITH BLACK LETTERING TO IDENTIFY PANEL AND CIRCUIT NUMBER. 27.2. ELECTRICAL GEAR (SWITCHBOARDS, PANELS, DISCONNECTS - PROVIDE PHENOLIC NAMEPLATE PER DETAIL INCLUDED IN THE DRAWINGS...
- 28. PRIOR TO ROUGH-IN OF ANY DEVICES, COORDINATE WITH ARCHITECT MILLWORK ELEVATION DRAWINGS FOR EXACT LOCATIONS.
- 29. KITCHEN EQUIPMENT, FUELING EQUIPMENT, AND GAS VALVES SHALL BE PROVIDED WITH SHUNT-TRIP BREAKERS AND EMERGENCY POWER OFF SWITCHES AS REQUIRED. E.C. SHALL COORDINATE ADDITIONAL REQUIRED SPACES IN PANELS WITH PANEL MANUFACTURER PRIOR TO ORDERING EQUIPMENT. INCLUDE ALL COSTS IN BASE BID.
- 30. UPDATE ALL EXISTING/NEW PANEL CIRCUIT BREAKER DIRECTORIES WITH NEW ROOM NUMBER CONFIGURATION PROVIDED BY ARCHITECTURAL PLANS.

LOW VOLTAGE SCOPE

- CONTRACTOR SHALL CLARIFY ANY LOW VOLTAGE SCOPE QUESTIONS DURING THE BIDDING PHASE.
- PLENUM RATED CABLE SHALL BE SUPPORTED BY DEDICATED J-HOOKS ABOVE ACCESSIBLE CEILING UON. ROUTE CABLE IN CONDUIT WHEN CABLE IS INACCESSIBLE (HARD CEILING) OR EXPOSED (NO CEILING).
- COPPER & FIBER OPTIC BASED ON TIA/EIA T568-A/B COMPLIANT
- INFRASTRUCTURE FOR VOICE & DATA COMMUNICATION. CAT 6 & FIBER OPTIC CABLING SHALL BE A CERTIFIED UNIPRISE SOLUTION.

- CONTRACTOR TO PROVIDE INFRASTRUCTURE (RACEWAY, LINE VOLTAGE POWER) AS REQUIRED FOR A COMPLETE SYSTEM. INDICATED DEVICES, LOCATIONS, AND INFORMATION ARE PROVIDED FOR
- BIDDING PURPOSES ONLY. COORDINATE FINAL REQUIREMENTS / LOCATIONS OWNER PRIOR TO ROUGH-IN. CONTRACTOR TO PROVIDE TELECOM CABLING AND INSTALLATION, INCLUDING
- JACKS, FINAL TERMINATIONS AND TESTING. CONFORM TO TULSA PUBLIC SCHOOLS TELECOM / IT STANDARDS. SEE SPECIFICATION SECTION 271500. IF NEEDED, OWNER WILL PROVIDE RACKS, SERVERS, AND SWITCHES UNDER
- SEPARATE CONTRACT. INTERCOM, SECURITY, ACCESS CONTROL, AUDIO / VIDEO
- CONTRACTOR TO PROVIDE INFRASTRUCTURE (RACEWAY, LINE VOLTAGE POWER) AS REQUIRED FOR A COMPLETE SYSTEM.
- INDICATED DEVICES, LOCATIONS, AND INFORMATION ARE PROVIDED FOR BIDDING PURPOSES ONLY. COORDINATE FINAL REQUIREMENTS WITH PROVIDING VENDOR / CONTRACTOR PRIOR TO ROUGH-IN.
- OWNER TO PROVIDE CABLING, DEVICES AND EQUIPMENT UNDER SEPARATE CONTRACT.

FIRE ALARM SYSTEM - N.I.C.

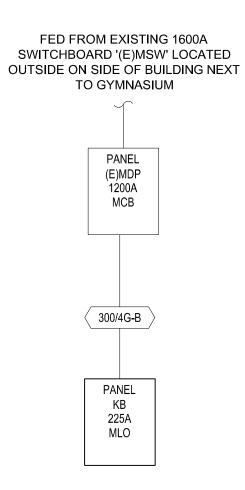
- EXISTING FIRE ALARM PANEL/SYSTEM CAN BE MODIFIED TO SERVE THIS SCOPE OF WORK. OWNER WILL PROVIDE ALL REQUIRED FIRE ALARM MODIFICATIONS,
- INCLUDING ROUGH-IN, THROUGH SEPARATE CONTRACT. RENUMBER DEVICE SCHEDULE BASED ON NEW ROOM NUMBERS.

GH, OR

SHEET NAME

ELECTRICAL COVER SHEET

SHEET



1 ELECTRICAL ONE-LINE NTS

FEEDER S	CHEDULE		
ID	FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
300/4G-B	300	3"C,4#350kcmil,#4G	КВ

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE, THW INSULATION

M(FE	DOM DUNTING D FROM DTE	FLUSH (E)MDP	Bl	OLTS 208Y/ US AMPS 22 EUTRAL 100	25	/ 3P 4W		AIC 22,000 MAIN BKR MLO LUGS STANDARD
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	N	CK	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1 3 5	70/3 	23	E05 IVARIO PRO XL	c E	2 4	20/3	0	REFRIFERATION SYSTEM
7 9 11	-/1 20/2	0	SHUNT TRIP (GFCI) E08A COMBI-	c	8 10	· '	0.9	(GFCI) E08B COMBI-OVEN (GFCI) E07B CONVECTION
13	20/1	0.7	(GFCI) E07A CONVE			30/3	9	OVEN E14B SERVING COUNTER WES
15 17	30/3	9	OVEN E14A SERVING COUN	NTER EAST E	16 18	, '		
19 21	20/2	1.5	(GFCI) E09A PASS- CABINET		22	ĺĺ	1.5	(GFCI) E09B PASS-THRU HO CABINET
23 25 27	20/2	0.2	E20 WALK-IN EVAPO	ORTAOR c	26	20/2	0.86	E21 WALK-IN EVAPORATOR (GFCI) E10B PASS-THRU
29	20/1	0.86	(GFCI) E10A PASS-				1.9	REFRIGERATOR E22
31 33 35	20/1 20/1 20/3	2 1.5 1.5	REFRIGERATOR E04 (GFCI) E24 E23	c b	34	1 '	1.2	KEH-1
37 39				c b		, ,	0.5 0.18	EH-1 (GFCI) GENERAL RECEPTACLE(S)
41 43 45	20/1 20/1 20/3	0.05 0.8 1.2	EF-1 GWH-1 KEF-1	c c b	a 44	ĺĺ	2.75	HPU/FCU-4 HPU/FCU-5
47 49				C	ł		0.18	(GFCI) GENERAL RECEPTACLE(S)
51 53 55	20/3	2.2	MAU-1	t c	54	20/1 20/1 20/1	0 0	SPARE SPARE SPARE
57 59 61	20/1 20/1 20/1 20/1	0 0 0	SPARE SPARE SPARE SPARE	t c	58 60 62	20/1 20/1	0 0 0	SPARE SPARE SPARE SPARE
65 67	20/1 20/1	0	SPARE SPARE	C		20/1	0	SPARE SPARE
			L CONN KVA CALC KVA	L			CON	IN KVA CALC KVA
	RGEST MOTO DTORS		· ·	5%) 00%)	KITC	EPTACLES HEN EQUIPME TINUOUS	0.36 NT 47.9 0.2	0.36 (50%>10) 32 (LARGEST 2) 0.25 (125%)
					TOT. BALA PHA	AL LOAD INCED 3-PHAS ISE A ISE B ISE C		54.6 152 A 104% 105% 90.9%

CALLOUT	DESCRIPTION	VOLTS	СВ	CIRCUIT	WIRE CALLOUT	KVA	FLA / BCSC	MCA	DISCONNECT	NOTES
AC-2	AIR CURTAIN CAFETERIA	120V 1P 2W				0.4			HARDWIRED CONNECTION	
EF-2	EXHAUST FAN RM 1R6	120V 1P 2W				0.05			HARDWIRED CONNECTION	INTERLOCK WITH LIGHTING, CONNECT TO EXISTING CIRCUIT
EF-3	EXHUAST VENT RM 1R5	120V 1P 2W				0.05			HARDWIRED CONNECTION	INTERLOCK WITH LIGHTING, CONNECT TO EXISTING CIRCUIT
EF-4	EXHAUST FAN BATHROOM 1R4	120V 1P 2W				0.35			HARDWIRED CONNECTION	INTERLOCK WITH BMS, CONNECT TO EXISTING CIRCUIT
EF-5	EXHAUST FAN BATHROOM 1R1	120V 1P 2W				0.05			HARDWIRED CONNECTION	INTERLOCK WITH BMS, CONNECT TO EXISTING CIRCUIT
EF-6	EXHUAST FAN BATHROOM 1R2	120V 1P 2W				0.05			HARDWIRED CONNECTION	INTERLOCK WITH BMS, CONNECT TO EXISTING CIRCUIT
EF-7	EXHAUST FAN JANITOR 1C6	120V 1P 2W				0.05			HARDWIRED CONNECTION	INTERLOCK WITH LIGHTING, CONNECT TO EXISTING CIRCUIT
EF-8	EXHAUST FAN BATHROOM 1R3	120V 1P 2W				0.05			HARDWIRED CONNECTION	INTERLOCK WITH LIGHTING, CONNECT TO EXISTING CIRCUIT
EF-9	EXHAUST FAN BATHROOM 1R7	120V 1P 2W				0.4			HARDWIRED CONNECTION	INTERLOCK WITH BMS, CONNECT TO EXISTING CIRCUIT
EF-10	EXHAUST FAN BATHROOM 1R8	120V 1P 2W				0.05			HARDWIRED CONNECTION	INTERLOCK WITH LIGHTING, CONNECT TO EXISTING CIRCUIT
EF-11	EXHAUST FAN JANITOR 1C5	120V 1P 2W				0.05			HARDWIRED CONNECTION	INTERLOCK WITH LIGHTING, CONNECT TO EXISTING CIRCUIT
EF-12	EXHAUST FAN BATHROOM 1R9	120V 1P 2W				0.05			HARDWIRED CONNECTION	INTERLOCK WITH LIGHTING, CONNECT TO EXISTING CIRCUIT
EF-13	EXHAUST FAN BATHROOM 1R10	120V 1P 2W				0.4			HARDWIRED CONNECTION	INTERLOCK WITH BMS, CONNECT TO EXISTING CIRCUIT
EF-14	EXHAUST FAN BATHROOM 1R11	120V 1P 2W				0.15			HARDWIRED CONNECTION	INTERLOCK WITH BMS, CONNECT TO EXISTING CIRCUIT
EF-15	EXHUAST FAN RM 1R13	120V 1P 2W				0.05			HARDWIRED CONNECTION	INTERLOCK WITH LIGHTING, CONNECT TO EXISTING CIRCUIT
EH-2	HEATER BATHROOM 1R4	208/120V 2P 3W				2.3	11		HARDWIRED CONNECTION	DISCONNECT INTEGRAL TO EQUIPMENT. REF MECHANICAL PLANS.
EH-3	HEATER BATHROOM 1R2	120V 1P 2W				1.5	12.5		HARDWIRED CONNECTION	DISCONNECT INTEGRAL TO EQUIPMENT. REF MECHANICAL PLANS.
EH-4	HEATER BATHROOM 1R1	120V 1P 2W				1.5	12.5		HARDWIRED CONNECTION	DISCONNECT INTEGRAL TO EQUIPMENT. REF MECHANICAL PLANS.
EH-5	HEATER BATHROOM 1R7	208/120V 2P 3W				2.3	11		HARDWIRED CONNECTION	DISCONNECT INTEGRAL TO EQUIPMENT. REF MECHANICAL PLANS.
EH-6	HEATER BATHROOM 1R10	208/120V 2P 3W				2.3	11		HARDWIRED CONNECTION	DISCONNECT INTEGRAL TO EQUIPMENT. REF MECHANICAL PLANS.
EH-7	HEATER BATHROOM 1R11	208/120V 2P 3W				2.3	11		HARDWIRED CONNECTION	DISCONNECT INTEGRAL TO EQUIPMENT. REF MECHANICAL PLANS.
HPU/FCU-1	COORIDOR NORTH WING MINI-SPLIT	208/120V 2P 3W	30/2	(E)CU-1-31,33	3/4"C,3#10,#10G	7.1		18	FUSED	INDOOR UNIT FED FROM OUTDOOR UNIT. PROVIDE LOCAL TOGGLE DISCONNECT AT INDOOR UNIT. NEMA 3R.
HPU/FCU-2	COORIDOR WEST WING MIDDLE MINI-SPLIT	208/120V 2P 3W	30/2	(E)CU-1-32,34	3/4"C,3#10,#10G	7.1		18	FUSED	INDOOR UNIT FED FROM OUTDOOR UNIT. PROVIDE LOCAL TOGGLE DISCONNECT AT INDOOR UNIT. NEMA 3R.
HPU/FCU-3	COORIDOR WEST WING MINI-SPLIT	208/120V 2P 3W	30/2	(E)CU-1-35,37	3/4"C,3#10,#10G	7.1		18	FUSED	INDOOR UNIT FED FROM OUTDOOR UNIT. PROVIDE LOCAL TOGGLE DISCONNECT AT INDOOR UNIT. NEMA 3R.
HPU/FCU-6	IDF ROOM MINI-SPLIT	208/120V 2P 3W	20/2	(E)CU-1-36,38	3/4"C,3#12,#12G	7.1		12	FUSED	INDOOR UNIT FED FROM OUTDOOR UNIT. PROVIDE LOCAL TOGGLE DISCONNECT AT INDOOR UNIT. NEMA 3R.
RTU-1	COORIDOR EAST WING HVAC	208V 3P 4W	50/3	(E)CU-2-6,8,10	1"C,4#6,#10G	1.5		30	HARDWIRED CONNECTION	

1. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION. 2. COORDINATE FINAL CONNECTIONS WITH FURNISHED EQUIPMENT.

3. REFER TO MANUFACTURER DATA FOR RECOMMENDED FUSE SIZE IF REQUIRED.

LUMINAIRE	SCHEDULE							
CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	VOLTS	MANUFACTURER	CATALOG NUMBER	GENERAL NOTES
A1	0	41W LED/5000K	2X4 LED FLAT PANEL	RECESSED	120V 1P 2W	METALUX	24FP4750C	
С	0	135W LED/5000K	LED SURFACE DOME WRAP	SUSPENDED	120V 1P 2W	LITHONIA LIGHTING	JEBL-18000LM-GL-MVOLT-50K-80CRI-DWHXD	SUSPEND 1FT FROM STRUCTURE VIA AIR CRAFT CABLE WITH SAFETY CABLE.
D1	0	18W LED/5000K	8" LED RECESSED DOWNLIGHT	RECESSED	120V 1P 2W	PRESCOLITE	RLC8SL-8LCSL-14-50-8-WT	
DE	0	18W LED/5000K	8" LED RECESSED DOWNLIGHT	RECESSED	120V 1P 2W	PRESCOLITE	RLC8SL-8LCSL-14-50-8-WT	PROVIDE WITH 90 MINUTE BATTERY BALLAST
EA	0	1W LED	EMERGENCY LIGHT	SURFACE	120V 1P 2W	COMPASS	CU2	90 MINUTE BATTERY BACKUP
M1	0	40W LED/5000K	4' UTILITY STRIP	SURFACE	120V 1P 2W	METALUX	4ST2L-4050R	
M2	0	38W LED/5000K	LED WRAP	SURFACE	120V 1P 2W	COLUMBIA	CVT4-LS50	
NE	9	21W LED/5000K	LED WALLPACK - EGRESS	WALL	120V 1P 2W	LUMARK	AXCS2A-C-CBP	PRICING FOR EXTERIOR EGRESS FIXTURES SHALL BE PROVIDED AS AN ALTERNATE

1. SPECIFIED FIXTURES INDICATE DESIGN INTENT. NO PRE-APPROVAL REQUIRED. EQUALS WILL BE SUBJECT TO REVIEW DURING SUBMITTAL PHASE. FIXTURES DEAMED NOT TO BE EQUAL TO THE SPECIFIED FIXTURE WILL BE REJECTED AND THE CONTRACTOR SHALL PROVIDE THE SPECIFIED FIXTURE AT NO ADDITIONAL COST. SUBSTITUTIONS MAY ALSO BE SUBJECT TO THE FOLLOWING UPON REQUEST FROM THE ENGINEER:

A. PROVIDE WORKING SAMPLE

B. PROVIDE PHOTOMETRIC CALCULATIONS

C. PROVIDE COST COMPARISON TO SPECIFIED FIXTURE

2. SEE ARCHITECTURAL PLANS FOR ADDITIONAL LIGHTING INFORMATION - ELEVATIONS, CEILING TYPES, DETAILS, ETC.



27484 10/31/22

SHEET NAME ELECTRICAL ONE-LINE & SCHEDULES

SHEET

DEMOLITION PLAN NOTES:

A. DEMOLISH ALL EXISTING SURFACE MOUNTED RECEPTACLES IN CLASSROOMS WHICH ARE INSTALLED ABOVE 5'-0" A.F.F. AND DO NOT SERVE A CURRENTLY INSTALLED ITEM. SURFACE MOUNTED CONDUIT ASSOCIATED WITH THESE RECEPTACLES SHALL BE DEMOLISHED BACK TO AN EXISTING JUNCTION BOX TO REMAIN.

EXISTING EQUIPMENT SHALL BE DEMOLISHED

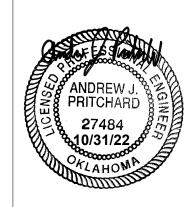
- B. REFER TO MECHANICAL DEMOLITION PLANS TO CONFIRM WHICH
- C. REFER TO ARCHITECTURAL DEMOLITION PLAN(S) FOR MORE DETAILS.
- D. REMOVE UNUSED LOW VOLTAGE CABLING FROM WALLS. LOW VOLTAGE CABLING STILL IN USE SHALL BE SALVAGED AND REROUTED TO ABOVE CEILING SO NOT VISIBLE.
- E. DEMOLISH ALL CAT5 DATA DROP THROUGHOUT BUILDING.

KEYED NOTES:

- 1. DEMOLISH EXISTING FLUORESCENT RECESSED LIGHTING IN CORRIDOR. REPLACEMENT FIXTURES WILL BE INSTALLED ONE-FOR-ONE IN SAME LOCATIONS. REFER TO ELECTRICAL LIGHTING PLANS.
- 2. DEMOLISH ALL WIRING DEVICES IN THE INDICATED SPACE. DEMOLISH ASSOCIATED WIRING AND CONDUITS BACK TO NEAREST JUNCTION BOX.
- 3. REMOVE EXISTING CEILING AND LIGHTS.
- 4. REMOVE EXISTING EXTERIOR LIGHTING FIXTURE. REPLACEMENT FIXTURES WILL BE INSTALLED ONE-FOR-ONE IN SAME LOCATIONS. REFER TO ELECTRICAL LIGHTING PLANS.
- 5. DEMOLISH EXISTING RECEPTACLES AND WIRING LOCATED INSIDE MILLWORK BACK TO NEAREST JUNCTION BOX.







SUBMITTAL:	CONSTRUCTION DOCUMENTS		REVISION HISTORY	
DATE:	10/25/2022	Ö.	NO. DESCRIPTION	DATE
PROJECT NO: 210186	210186			
DESIGNED BY: GDA	GDA			
DRAWN BY:	GDA			
APPROVED BY: AJP	AJP			
SCALE:	AS SHOWN			

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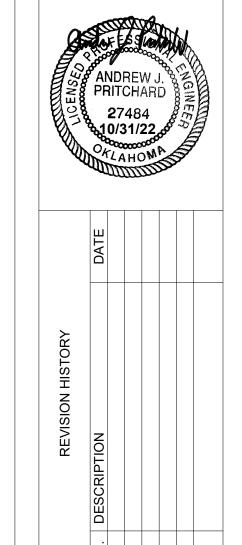
ELECTRICAL **DEMOLITION PLAN**

SHEET

OVERALL ELECTRICAL PLAN NOTES:

A. GALVANIZED RIGID CONDUIT SHALL BE ROUTED AT LEAST 6" ABOVE ROOF. COORDINATE WITH EXISTING ELECTRICAL, GAS, AND PLUMBING LINES INSTALLED ON THE ROOF. CROSS EXISTING CONDUIT PERPENDICULAR WHENEVER POSSIBLE. DO NOT ALLOW CONDUIT TO REST OR CONTACT EXISTING CONDUITS INSTALLED ON THE ROOF. STRAP AND SUPPORT ACCORDING TO NEC.



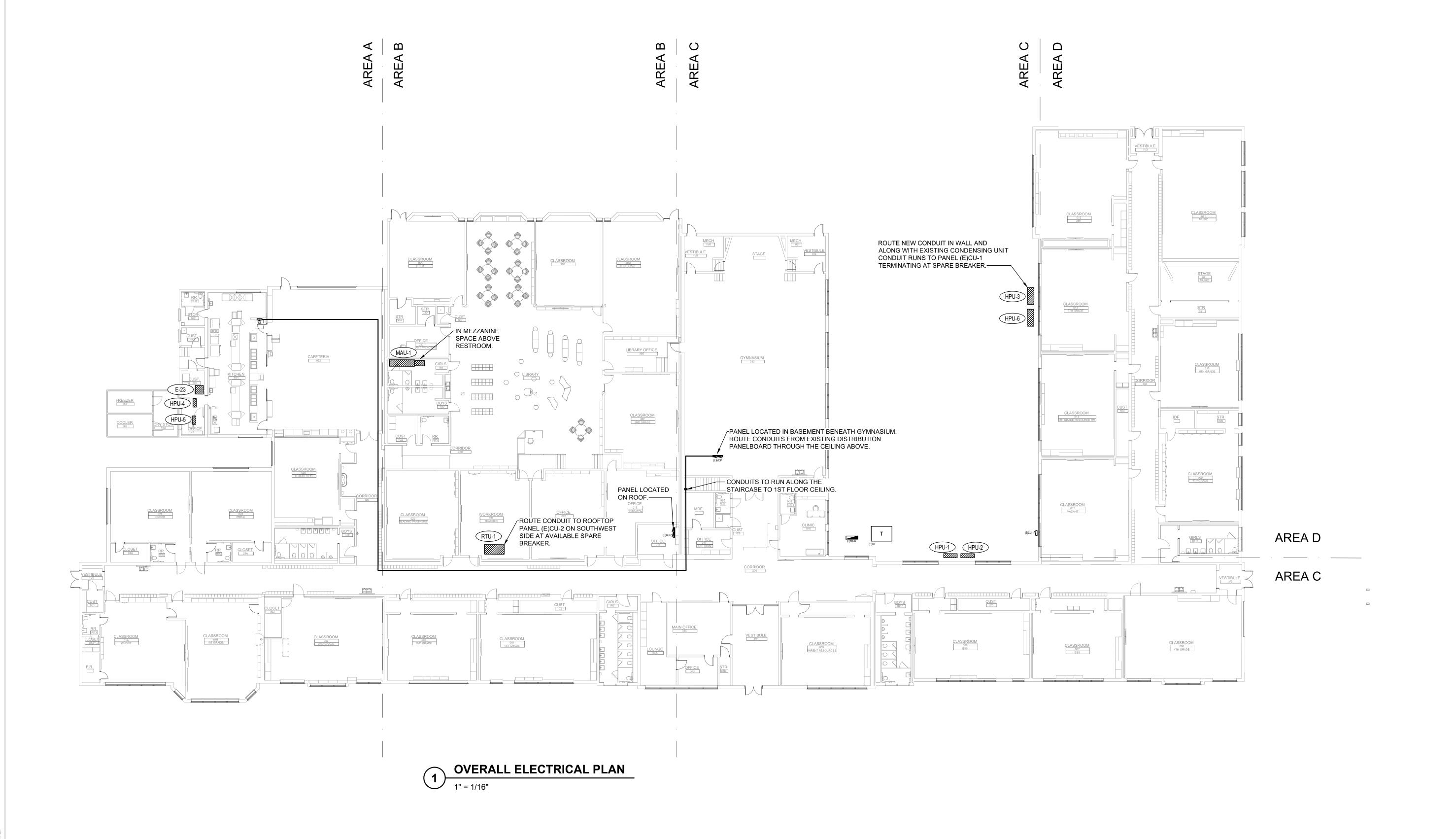


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INTERIOR RENOVATION
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SHEET NAME

OVERALL ELECTRICAL PLAN

SHEET **E-200**





ELECTRICAL LIGHTING PLAN - AREA A

PLAN NOTES:

- A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- B. PROVIDE NEW WHITE WALL SWITCHES AND STAINLESS COVER PLATES ONLY WHERE NEW LIGHTING IS PROVIDED.
- C. 2' X 4' CEILING LIGHTING WILL HAVE NEW GRID PROVIDED AND INSTALLED BY G.C. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

$\langle {}^{\#} \rangle$ KEYED NOTES :

- 1. RECONNECT TO LIGHTING CIRCUIT WHICH PREVIOUSLY SERVED THE SPACE.
- 2. UTILIZE EXISTING SWITCH LOCATIONS WHICH PREVIOUSLY SERVED CORRIDOR LIGHTING.
- 3. NEW CEILING TILE AND GRID TO BE INSTALLED IN BATHROOM.
- CONNECT TO CONSTANT HOT OF NEARBY LIGHTING CIRCUIT.







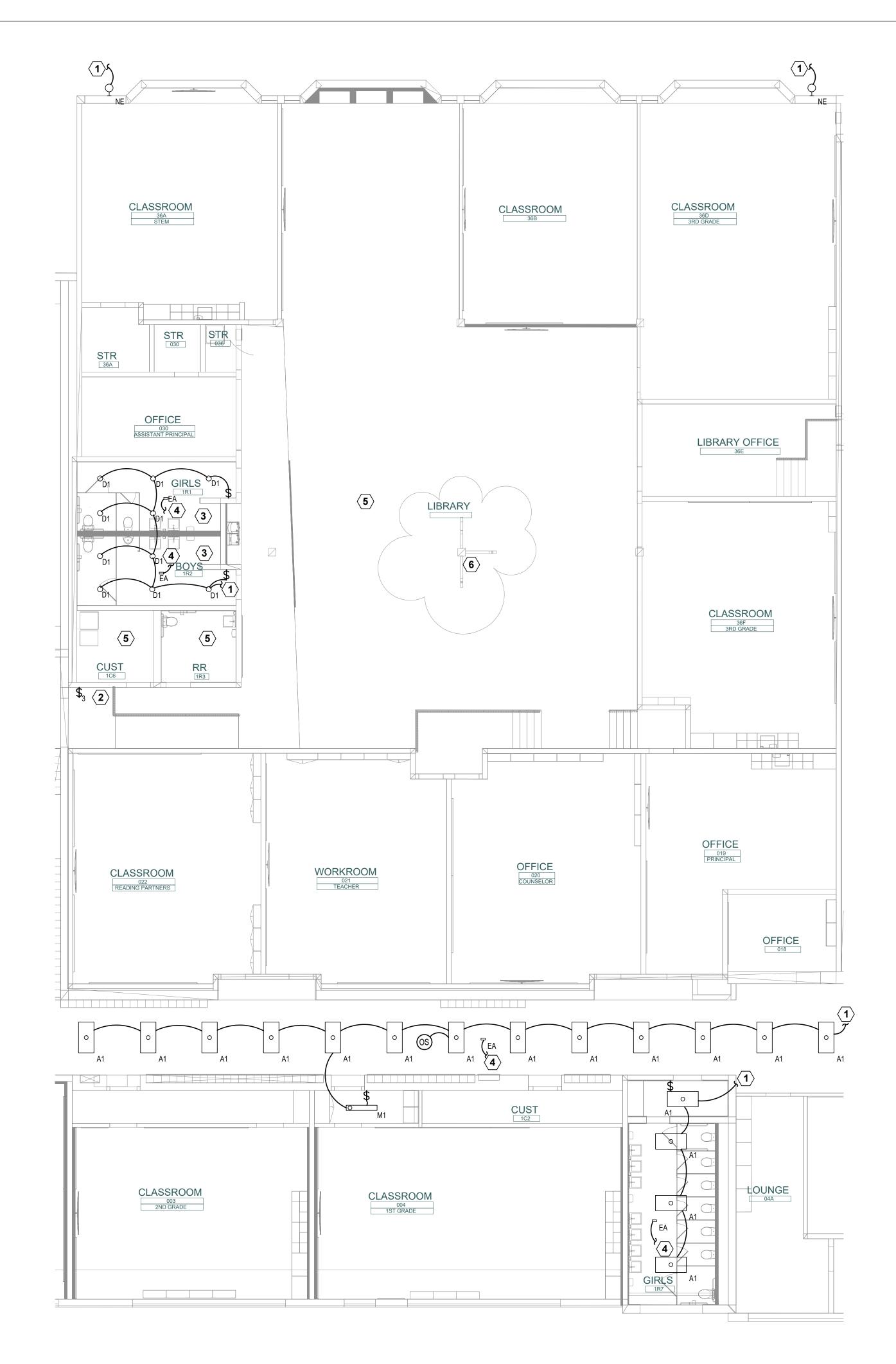


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SHEET NAME ELECTRICAL LIGHTING PLAN AREA A

SHEET



ELECTRICAL LIGHTING PLAN - AREA B

PLAN NOTES:

- A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- B. PROVIDE NEW WHITE WALL SWITCHES AND STAINLESS COVER PLATES ONLY WHERE NEW LIGHTING IS PROVIDED.
- C. 2' X 4' CEILING LIGHTING WILL HAVE NEW GRID PROVIDED AND INSTALLED BY G.C. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
- D. 2' X 4' LIGHTING IN LIBRARY TO BE A ONE FOR ONE REPLACEMENT IN EXISTING LOCATION.

KEYED NOTES :

- 1. RECONNECT TO LIGHTING CIRCUIT WHICH PREVIOUSLY SERVED THE SPACE.
- 2. UTILIZE EXISTING SWITCH LOCATIONS WHICH PREVIOUSLY SERVED CORRIDOR LIGHTING.
- 3. NEW GYP CEILING TO BE INSTALLED IN BATHROOM.
- 4. CONNECT TO CONSTANT HOT OF NEARBY LIGHTING CIRCUIT.
- 5. SALVAGE EXISTING LIGHTING AND PLACE IN NEW CEILING.
- 6. <u>ALTERNATE 3:</u> PROVIDE BID ALLOWANCE OF \$2000 FOR POTENTIAL TREE SCULPTURE LIGHTING.







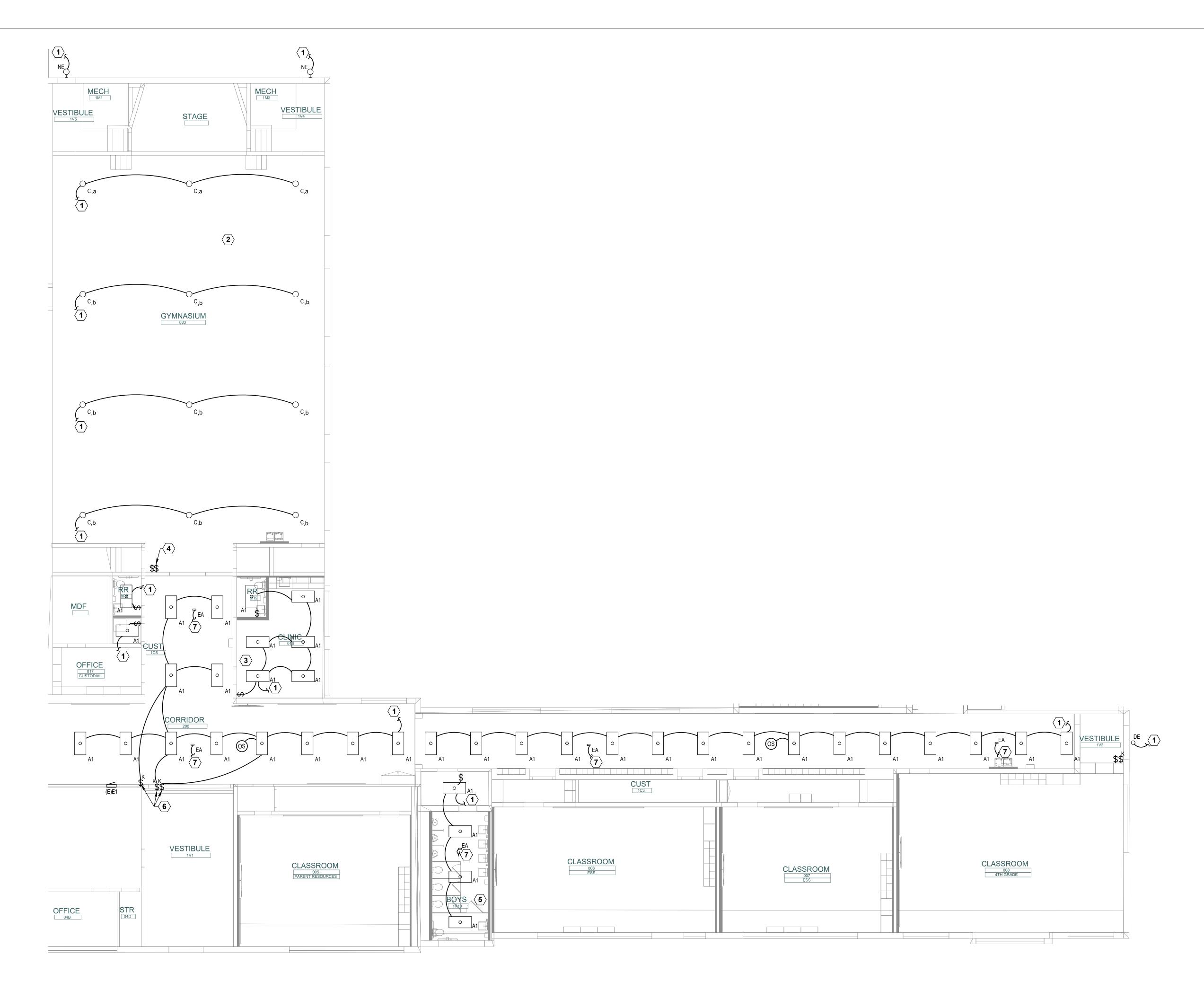
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DRAWN BY:	GDA			
APPROVED BY: AJP	AJP			
SCALE:	AS SHOWN			

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ELECTRICAL LIGHTING PLAN -AREA B

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ELECTRICAL LIGHTING PLAN - AREA C 1" = 1/8"

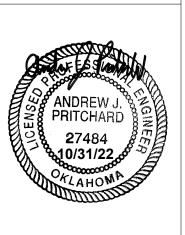
PLAN NOTES:

- A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- B. PROVIDE NEW WHITE WALL SWITCHES AND STAINLESS COVER PLATES ONLY WHERE NEW LIGHTING IS PROVIDED.
- C. 2' X 4' CEILING LIGHTING WILL HAVE NEW GRID PROVIDED AND INSTALLED BY G.C. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

KEYED NOTES :

- RECONNECT TO LIGHTING CIRCUIT WHICH PREVIOUSLY SERVED THE SPACE.
- 2. DROP CEILING IS BEING REMOVED IN GYM. SOME ELECTRICAL REWORK MAY BE NEEDED. EXISTING BRANCH CIRCUITS SHOULD BE RAN IN STRAIGHT CONDUIT RUNS AND APPROPRIATELY STRAPPED TO STRUCTURE. COORDINATE FINAL FIXTURE LOCATIONS WITH NEW DUCTWORK PRIOR TO ROUGH-IN.
- ALTERNATE: PROVIDE AND INSTALL TYPE 'A1' LIGHTING FIXTURES ONE FOR ONE IN CORRIDOR.
- UTILIZE 5-GANG BOX TO 2-GANG. PATCH AND PAINT WALL AS NECESSARY.
- NEW CEILING TILE TO BE INSTALLED IN BATHROOM.
- UTILIZE EXISTING SWITCH LOCATIONS WHICH PREVIOUSLY SERVED CORRIDOR LIGHTING.
- CONNECT TO CONSTANT HOT OF CIRCUIT WHICH SERVES LIGHTING IN SAME SPACE.





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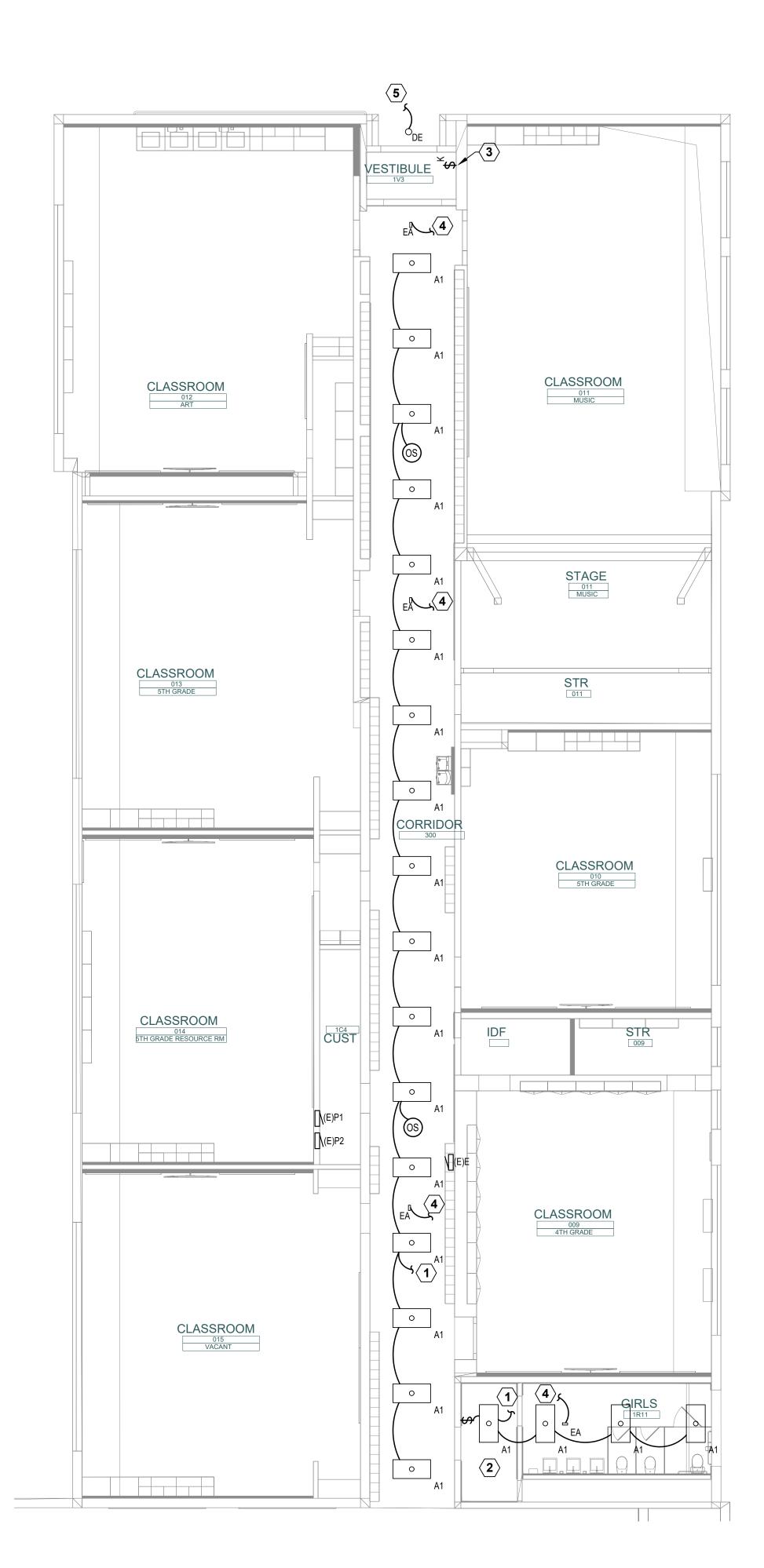
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SHEET NAME

ELECTRICAL

LIGHTING PLAN
AREA C

SHEET



ELECTRICAL LIGHTING PLAN - AREA D

PLAN NOTES:

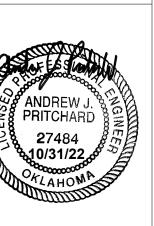
- A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- B. PROVIDE NEW WHITE WALL SWITCHES AND STAINLESS COVER PLATES ONLY WHERE NEW LIGHTING IS PROVIDED.
- C. 2' X 4' CEILING LIGHTING WILL HAVE NEW GRID PROVIDED AND INSTALLED BY G.C. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
- D. 2' X 4' LIGHTING IN LIBRARY TO BE A ONE FOR ONE REPLACEMENT IN EXISTING LOCATION.

KEYED NOTES:

- RECONNECT TO LIGHTING CIRCUIT THAT PREVIOUSLY SERVED THE SPACE.
- 2. NEW CEILING TILE TO BE INSTALLED IN BATHROOM.
- 3. UTILIZE EXISTING SWITCH LOCATIONS WHICH PREVIOUSLY SERVED CORRIDOR LIGHTING.
- 4. CONNECT TO CONSTANT HOT OF CIRCUIT WHICH SERVES LIGHTING IN SAME SPACE.
- 5. PROVIDE NEW CIRCUIT FOR EXTERIOR LIGHT FROM AVAILABLE BREAKER AT NEAREST PANEL.



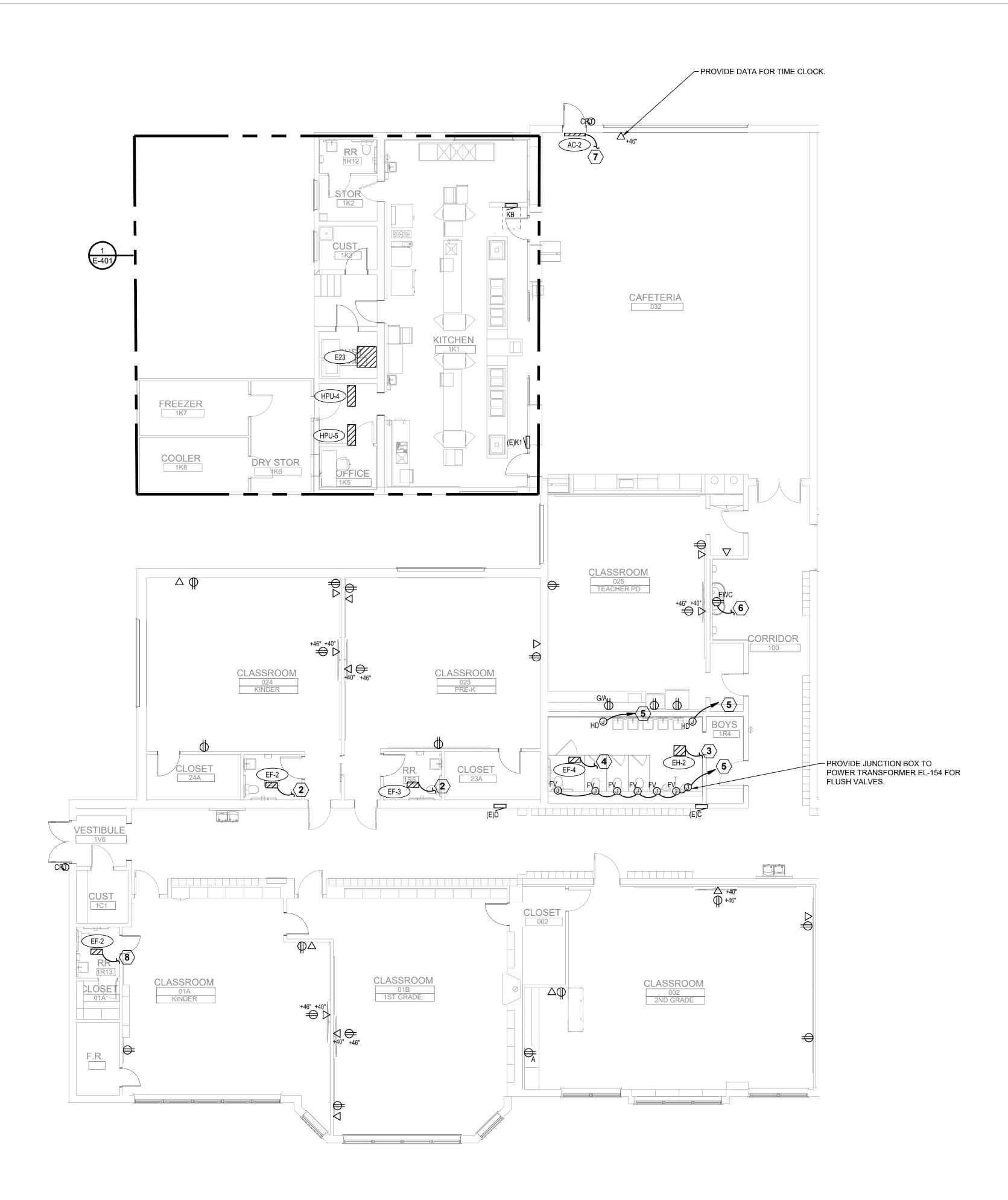




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N BY: GDA	GDA			
OVED BY: AJP	AJP			
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SHEET NAME ELECTRICAL LIGHTING PLAN -AREA D

SHEET



ELECTRICAL POWER & SYSTEMS PLAN - AREA A

PLAN NOTES:

- A. REFER TO TYPICAL DEVICE MOUNTING DETAIL 1/E-501 FOR ADDITIONAL INFORMATION.
- B. DATA DEVICES SHOWN IN TEACHING SPACES INDICATE APPROXIMATE FINAL LOCATIONS. EXISTING DEVICES WHICH ARE IN A SIMILAR LOCATION ARE ACCEPTABLE HOWEVER DEVICES WHICH SERVE SPECIFIC ITEMS SHALL BE LOCATED PER PLANS.
- C. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E-002 FOR CONNECTION DETAILS.
- D. REPLACE RECEPTACLES ONE FOR ONE WITH WHITE FINISH AND STAINLESS STEEL COVER.
- E. REPLACE ALL EXISTING DATA DROPS WITH CAT6 CABLE.
- F. ALL RECEPTACLES TO BE TAMPERPROOF.
- G. SALVAGE EXISTING CAMERA SYSTEM AND PLACE IN NEW CORRIDOR CEILING.

KEYED NOTES:

- CONNECT TO NEAREST CIRCUIT LOCATED IN ROOM.
- 2. RECONNECT TO EXISTING CIRCUIT THAT PREVIOUSLY SERVED DEVICE. INTERLOCK WITH LIGHTING SWITCH.
- PROVIDE NEW 20/2 CIRCUIT BREAKER IN EXISTING PANEL (E)C. MATCH EXISTING AIC RATING. PROVIDE UPDATED CIRCUIT DIRECTORY.
- 4. RECONNECT TO POWER SUPPLY THAT PREVIOUSLY SERVED ROOF TOP VENTILATION FAN.
- 5. PROVIDE DEDICATED 120V CIRCUIT TO NEW HAND DRIERS OR FLUSH VALVE SPECIFIED BY ARCHITECT. REFER TO ARCHITECTURAL PLANS. UTILIZE SPARE 20A CIRCUIT BREAKER IN NEARBY EXISTING PANEL. PROVIDE NEW CIRCUIT BREAKER IF ONE IS NOT AVAILABLE.
- 6. UTILIZE EXISTING POWER FOR UPDATED DRINKING FOUNTAIN WHICH MAY REQUIRE JUNCTION BOX EXTENSION OR RELOCATION. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS FOR PROPER RECEPTACLE LOCATION.
- RECONNECT TO EXISTING CIRCUIT THAT PREVIOUSLY SERVED DEVICE.
- 8. ALTERNATE 2: PROVIDE DEDICATED CIRCUIT TO EXHAUST FAN FROM NEAREST EXISTING PANEL USING AVAILABLE SPARE BREAKER.







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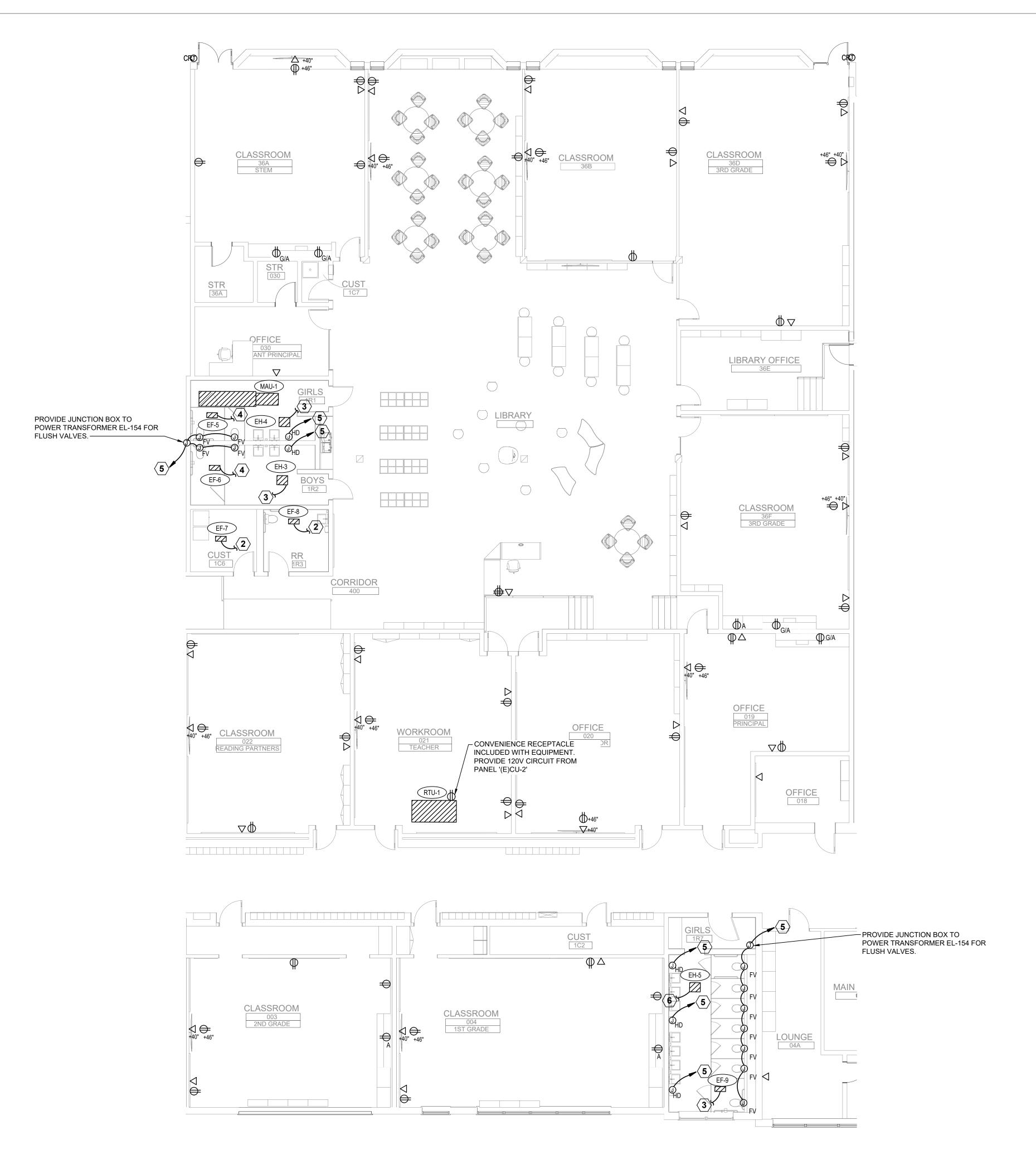
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SHEET NAME

ELECTRICAL POWER & SYSTEMS PLAN -AREA A

SHEET



ELECTRICAL POWER & SYSTEMS PLAN - AREA B

PLAN NOTES:

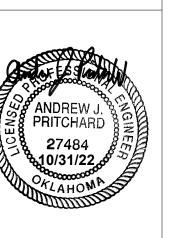
- A. REFER TO TYPICAL DEVICE MOUNTING DETAIL 1/E-501 FOR ADDITIONAL INFORMATION.
- B. DATA DEVICES SHOWN IN TEACHING SPACES INDICATE APPROXIMATE FINAL LOCATIONS. EXISTING DEVICES WHICH ARE IN A SIMILAR LOCATION ARE ACCEPTABLE HOWEVER DEVICES WHICH SERVE SPECIFIC ITEMS SHALL BE LOCATED PER PLANS.
- C. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E-002 FOR CONNECTION DETAILS.
- D. REPLACE RECEPTACLES ONE FOR ONE WITH WHITE FINISH AND STAINLESS STEEL COVER.
- E. REPLACE ALL EXISTING DATA DROPS WITH CAT6 CABLE.
- F. SALVAGE EXISTING CAMERA SYSTEM AND PLACE IN NEW CORRIDOR CEILING.

KEYED NOTES :

- 1. CONNECT TO NEAREST CIRCUIT LOCATED IN ROOM.
- 2. RECONNECT TO EXISTING CIRCUIT THAT PREVIOUSLY SERVED DEVICE. INTERLOCK WITH LIGHTING SWITCH.
- 3. RECONNECT TO POWER SUPPLY THAT PREVIOUSLY SERVED FLOOR HEATER.
- 4. RECONNECT TO POWER SUPPLY THAT PREVIOUSLY SERVED ROOF TOP VENTILATION
- 5. PROVIDE DEDICATED 120V CIRCUIT TO NEW HAND DRIERS OR FLUSH VALVE SPECIFIED BY ARCHITECT. REFER TO ARCHITECTURAL PLANS. UTILIZE SPARE 20A CIRCUIT BREAKER IN NEARBY EXISTING PANEL. PROVIDE NEW CIRCUIT BREAKER IF ONE IS NOT AVAILABLE.
- 6. PROVIDE NEW 20/2 CIRCUIT BREAKER IN EXISTING PANEL E(E1). MATCH EXISTING AIC RATING. PROVIDE UPDATED CIRCUIT DIRECTORY.





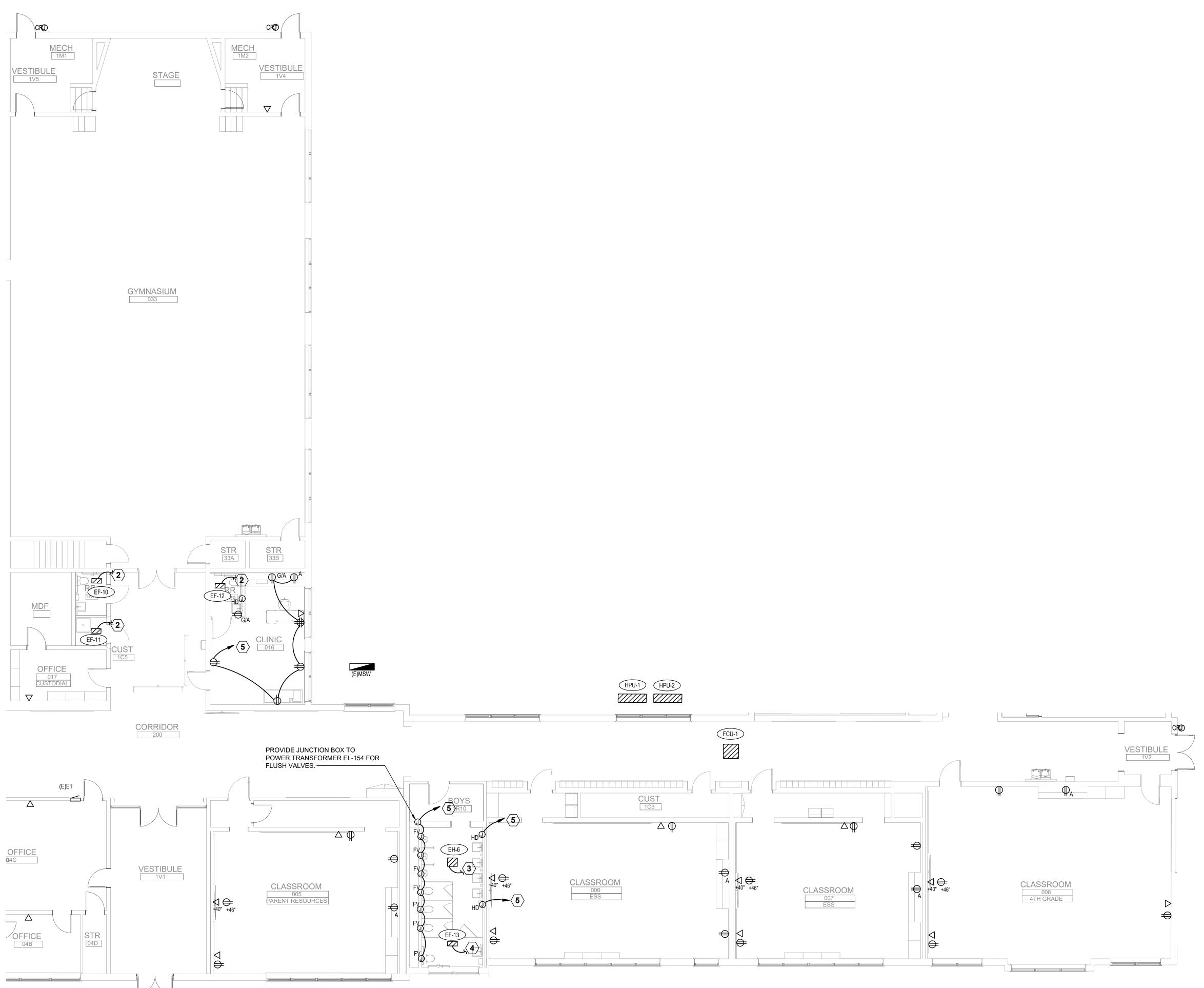


SUBMITTAL:	CONSTRUCTION DOCUMENTS		REVISION HISTORY	
DATE:	10/25/2022	ON	NO. DESCRIPTION	DATI
PROJECT NO: 210186	210186			
DESIGNED BY: GDA	GDA			
DRAWN BY:	GDA			
APPROVED BY: AJP	AJP			
SCALE:	AS SHOWN			

SHEET NAME

ELECTRICAL POWER & SYSTEMS PLAN -AREA B

SHEET



ELECTRICAL POWER & SYSTEMS PLAN - AREA C

PLAN NOTES:

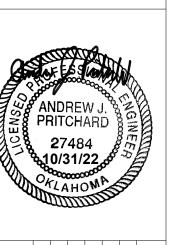
- A. REFER TO TYPICAL DEVICE MOUNTING DETAIL 1/E-501 FOR ADDITIONAL INFORMATION.
- B. DATA DEVICES SHOWN IN TEACHING SPACES INDICATE APPROXIMATE FINAL LOCATIONS. EXISTING DEVICES WHICH ARE IN A SIMILAR LOCATION ARE ACCEPTABLE HOWEVER DEVICES WHICH SERVE SPECIFIC ITEMS SHALL BE LOCATED PER PLANS.
- C. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E-002 FOR CONNECTION DETAILS.
- D. REPLACE RECEPTACLES ONE FOR ONE WITH WHITE FINISH AND STAINLESS STEEL COVER.
- E. REPLACE ALL EXISTING DATA DROPS WITH CAT6 CABLE.
- F. SALVAGE EXISTING CAMERA SYSTEM AND PLACE IN NEW CORRIDOR CEILING.

KEYED NOTES :

- 1. CONNECT TO NEAREST CIRCUIT LOCATED IN ROOM.
- 2. RECONNECT TO EXISTING CIRCUIT THAT PREVIOUSLY SERVED DEVICE. INTERLOCK WITH LIGHTING SWITCH.
- 3. PROVIDE NEW 20/2 CIRCUIT BREAKER IN EXISTING PANEL E(E1). MATCH EXISTING AIC RATING. PROVIDE UPDATED CIRCUIT DIRECTORY.
- 4. RECONNECT TO POWER SUPPLY THAT PREVIOUSLY SERVED ROOF TOP VENTILATION
- 5. PROVIDE DEDICATED 120V CIRCUIT TO NEW HAND DRIERS OR FLUSH VALVE SPECIFIED BY ARCHITECT. REFER TO ARCHITECTURAL PLANS. UTILIZE SPARE 20A CIRCUIT BREAKER IN NEARBY EXISTING PANEL. PROVIDE NEW CIRCUIT BREAKER IF ONE IS NOT AVAILABLE.





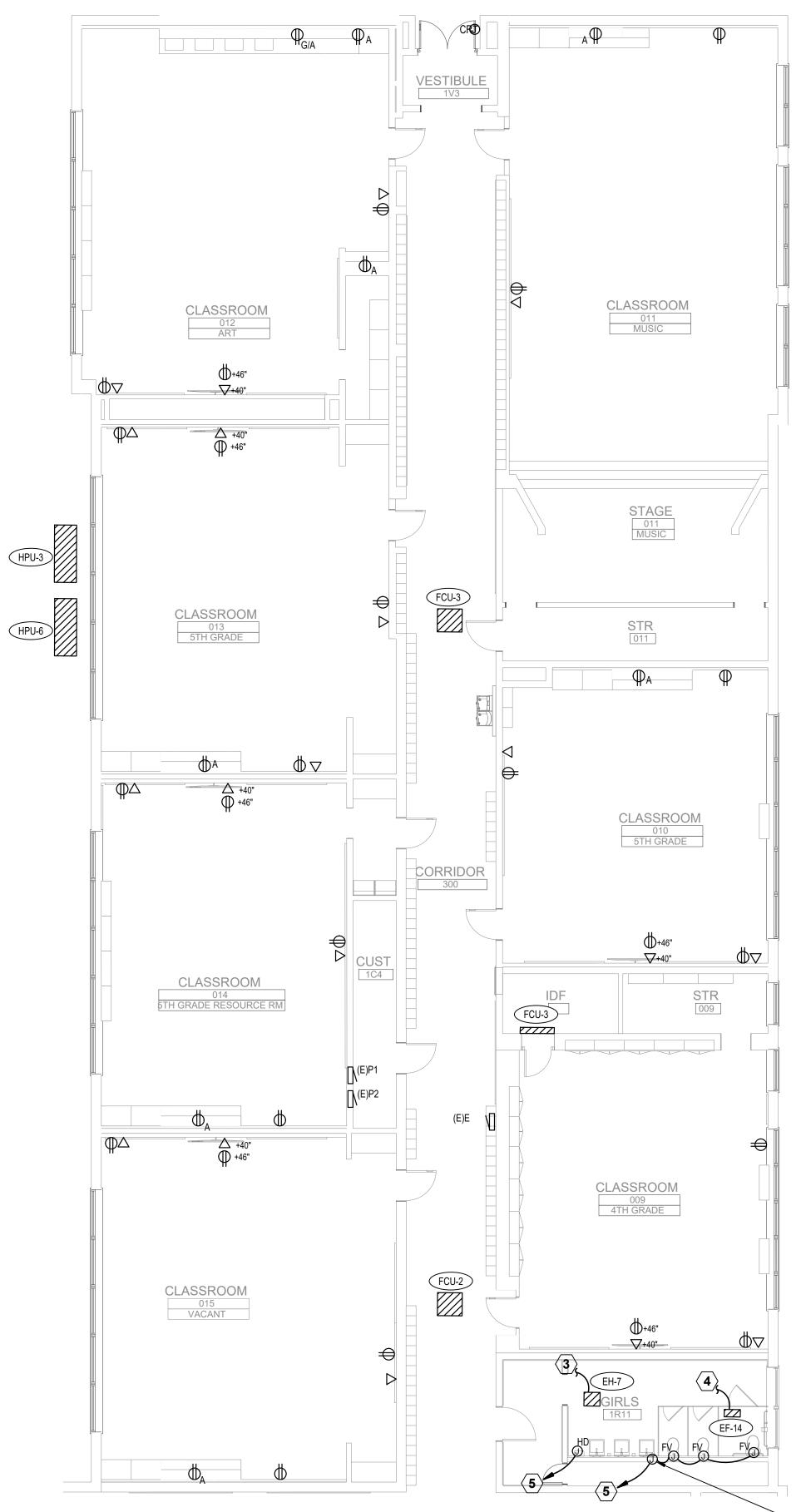


SUBMITTAL:	CONSTRUCTION DOCUMENTS		REVISION HISTORY	
DATE:	10/25/2022	NO.	NO. DESCRIPTION	
PROJECT NO: 210186	210186			
DESIGNED BY: GDA	GDA			
DRAWN BY:	GDA			
APPROVED BY: AJP	AJP			
SCALE:	AS SHOWN			

SHEET NAME

ELECTRICAL POWER & SYSTEMS PLAN -AREA C

SHEET



PROVIDE JUNCTION BOX TO
POWER TRANSFORMER EL-154 FOR
FLUSH VALVES..

ELECTRICAL POWER & SYSTEMS PLAN - AREA D

PLAN NOTES:

- A. REFER TO TYPICAL DEVICE MOUNTING DETAIL 1/E-501 FOR ADDITIONAL INFORMATION.
- B. DATA DEVICES SHOWN IN TEACHING SPACES INDICATE APPROXIMATE FINAL LOCATIONS.
 EXISTING DEVICES WHICH ARE IN A SIMILAR LOCATION ARE ACCEPTABLE HOWEVER DEVICES WHICH SERVE SPECIFIC ITEMS SHALL BE LOCATED PER PLANS.
- C. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E-002 FOR CONNECTION DETAILS.
- D. REPLACE RECEPTACLES ONE FOR ONE WITH WHITE FINISH AND STAINLESS STEEL COVER.
- E. REPLACE ALL EXISTING DATA DROPS WITH CAT6 CABLE.
- F. SALVAGE EXISTING CAMERA SYSTEM AND PLACE IN NEW CORRIDOR CEILING.

KEYED NOTES :

- CONNECT TO NEAREST CIRCUIT LOCATED IN ROOM.
- RECONNECT TO EXISTING CIRCUIT THAT PREVIOUSLY SERVED DEVICE. INTERLOCK WITH LIGHTING SWITCH.
- PROVIDE NEW 20/2 CIRCUIT BREAKER IN EXISTING PANEL E(E). MATCH EXISTING AIC RATING. PROVIDE UPDATED CIRCUIT DIRECTORY.
- 4. RECONNECT TO POWER SUPPLY THAT PREVIOUSLY SERVED ROOF TOP VENTILATION FAN.
- 5. PROVIDE DEDICATED 120V CIRCUIT TO NEW HAND DRIERS OR FLUSH VALVE SPECIFIED BY ARCHITECT. REFER TO ARCHITECTURAL PLANS. UTILIZE SPARE 20A CIRCUIT BREAKER IN NEARBY EXISTING PANEL. PROVIDE NEW CIRCUIT BREAKER IF ONE IS NOT AVAILABLE.







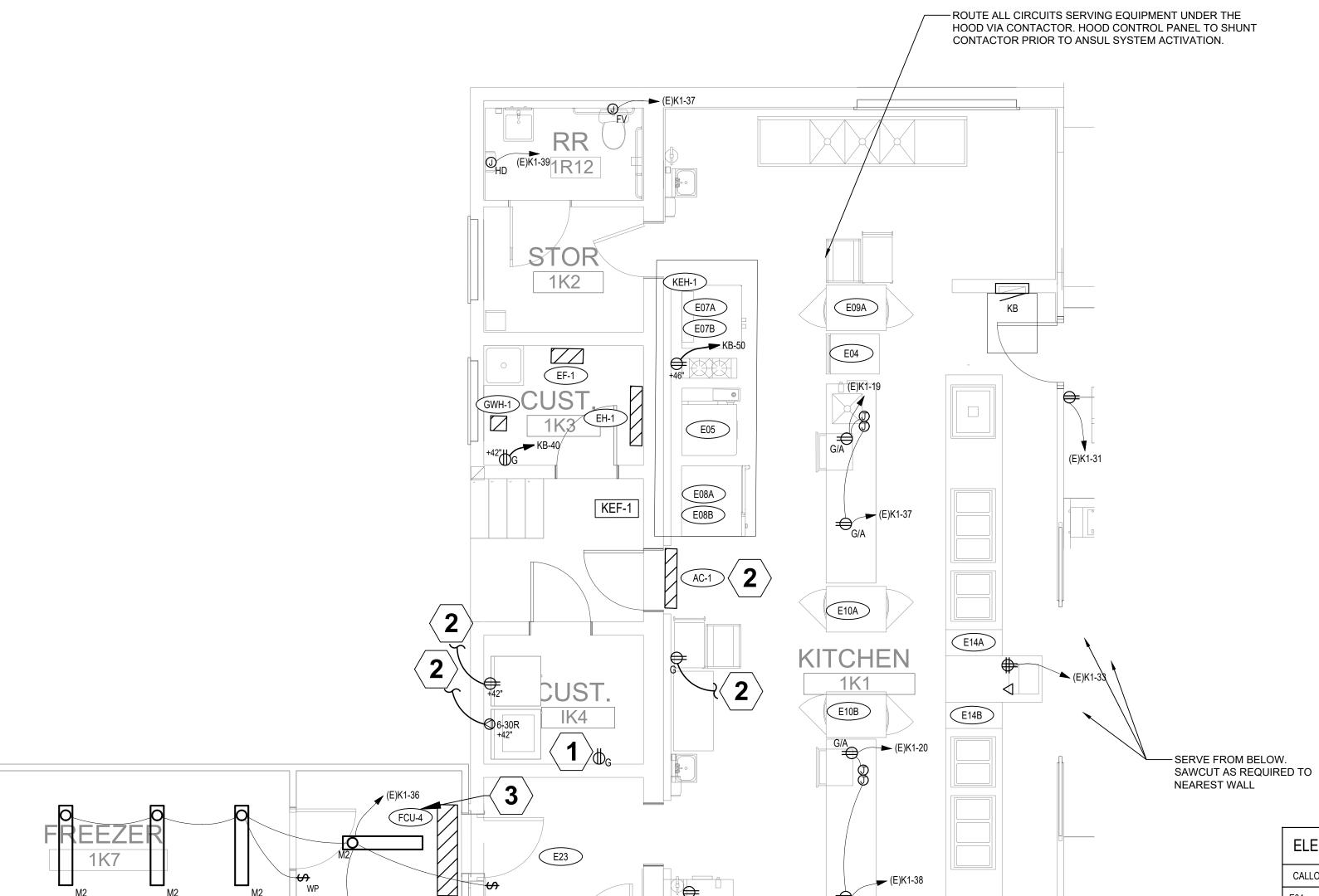
SUBMITTAL:	CONSTRUCTION DOCUMENTS		REVISION HISTORY	
DATE:	10/25/2022	ON	NO. DESCRIPTION	DA
PROJECT NO: 210186	210186			
DESIGNED BY: GDA	GDA			
DRAWN BY:	GDA			
APPROVED BY: AJP	AJP			
SCALE:	AS SHOWN			

OUGHS ELEMENTARY
ERIOR RENOVATION
24 N. Martin Luther King Jr. Blvd.

SHEET NAME

ELECTRICAL POWER & SYSTEMS PLAN -AREA D

SHEET





(E)K1-29

ENLARGED PLAN NOTES:

- A. EXISTING LIGHTING IN THE KITCHEN IS UPDATED AND SHALL REMAIN. PROTECT DURING
- B. EXISTING LIGHT SWITCHES SHALL BE REPLACED WITH NEW 20A SWITCHES OF SAME TYPE. DEVICE COLOR SHALL BE WHITE WITH

PROVIDER PLANS FOR ADDITIONAL DETAILS.

- C. REFER TO FOOD SERVICE EQUIPMENT

KEYED NOTES :

- 2. RECONNECT TO CIRCUIT PREVIOUSLY SUPPLIED
- 3. SUPPLY POWER FROM APPROPRIATE HEAT

	ANDREW J. PRITCHARD PRITCHARD 10/31/22

STRUCTION SUMENTS		REVISION HISTORY	
5/2022	NO.	NO. DESCRIPTION D.	DATE
186			
SHOWN			

SHEET NAME

ELECTRICAL ENLARGED PLANS

SHEET

E-401

CONSTRUCTION.

STAINLESS COVER PLATE.

D. CONTRACTOR TO NOTE THAT SOME NEW DEVICES SHOWN ARE DEVICE REPLACEMENT ONLY.

- PROVIDE DEDICATED 120V CIRCUIT TO GFCI RECEPTACLE.
- TO DEVICE.
- PUMP UNIT LOCATED ON ROOF.

CALLOUT	DESCRIPTION	VOLTS	СВ	CIRCUIT	WIRE CALLOUT	KVA	FLA	MCA	DISCONNECT	NOTES
										•
E04	MOBILE PROOF/HOOD CAB.	120V 1P 2W	20/1	KB-31	3/4"C,2#12,#12G	2	16.7	16.7	SIMPLEX RECEPTACLE	GFCI, VIA DROP CORD FROM CEILING, 5-20R RECEPTACLE
E05	IVARIO PRO XL	208V 3P 4W	70/3	KB-1,3,5	1-1/4"C,4#4,#8G	23	94.3		HARDWIRED CONNECTION	CB IN PANEL KB WILL BE MEANS OF DISCONNECT.
E07A	CONVECTION OVEN	120V 1P 2W	20/1	KB-13	3/4"C,2#12,#12G	0.7	6.25	8	DUPLEX RECEPTACLE	
E07B	CONVECTION OVEN	120V 1P 2W	20/1	KB-12	3/4"C,2#12,#12G	0.7	6.25	8	DUPLEX RECEPTACLE	
E08A	COMBI-OVEN	208V 2P 2W	20/2	KB-9,11	3/4"C,2#12,#12G	0.9	7.2	9	SPECIAL RECEPTACLE	NEMA 6-20R
E08B	COMBI-OVEN	208V 2P 2W	20/2	KB-8,10	3/4"C,2#12,#12G	0.9	7.2	9	SPECIAL RECEPTACLE	NEMA 6-20R
E09A	PASS-THRU REFRIGERATOR	208V 2P 2W	20/2	KB-21,23	3/4"C,2#12,#12G	1.5	7.2	7.2	SPECIAL RECEPTACLE	VIA DROP CORD FROM CEILING, 6-20R RECEPTACLE
E09B	PASS-THRU REFRIGERATOR	208V 2P 2W	20/2	KB-20,22	3/4"C,2#12,#12G	1.5	7.2	7.2	SPECIAL RECEPTACLE	VIA DROP CORD FROM CEILING, 6-20R RECEPTACLE
E10A	PASS-THRU HOT CABINET	120V 1P 2W	20/1	KB-29	3/4"C,2#12,#12G	0.86	7.2	9	SIMPLEX RECEPTACLE	GFCI, VIA CORD DROP FROM CEILING
E10B	PASS-THRU HOT CABINET	120V 1P 2W	20/1	KB-28	3/4"C,2#12,#12G	0.86	7.2	9	HARDWIRED CONNECTION	GFCI, VIA CORD DROP FROM CEILING
E14A	SERVING COUNTER	208V 3P 4W	30/3	KB-15,17,19	3/4"C,3#10,#12N,#10G	9	25	30	HARDWIRED CONNECTION	COORDINATE FINAL CONNECTION TO LOAD CENTER PROVIDED BY FOODSERVICE CONTRACTOR. ASSUME NEMA 15-30R SURFACE MOUNTED IN CAST WP BOX.
E14B	SERVING COUNTER	208V 3P 4W	30/3	KB-14,16,18	3/4"C,3#10,#12N,#10G	9	25	30	HARDWIRED CONNECTION	COORDINATE FINAL CONNECTION TO LOAD CENTER PROVIDED BY FOODSERVICE CONTRACTOR. ASSUME NEMA 15-30R SURFACE MOUNTED IN CAST WP BOX.
E20	WALK-IN EVAPORATOR	208V 2P 2W	20/2	KB-25,27	3/4"C,2#12,#12G	0.2	1	1.25	TOGGLE SWITCH	
E21	WALK-IN EVAPORATOR	208V 2P 2W	20/2	KB-24,26	3/4"C,2#12,#12G	2	9.8	12.3	TOGGLE SWITCH	
E22	WALK-IN HEAT TAPE	120V 1P 2W	20/1	KB-30	3/4"C,2#12,#12G	1.9	16	16	TOGGLE SWITCH	
E23	REFRIGERATION SYSTEM	208V 3P 4W	20/3	KB-35,37,39	3/4"C,4#8,#12G	1.5	28.3	38.4	FUSED	NEMA 3R DISCONNECT
E24	ICE MAKER	120V 1P 2W	20/1	KB-33	3/4"C,2#12,#12G	1.5	12.7	15.9	SIMPLEX RECEPTACLE	GFCI, DROP-CORD RECEPTACLE

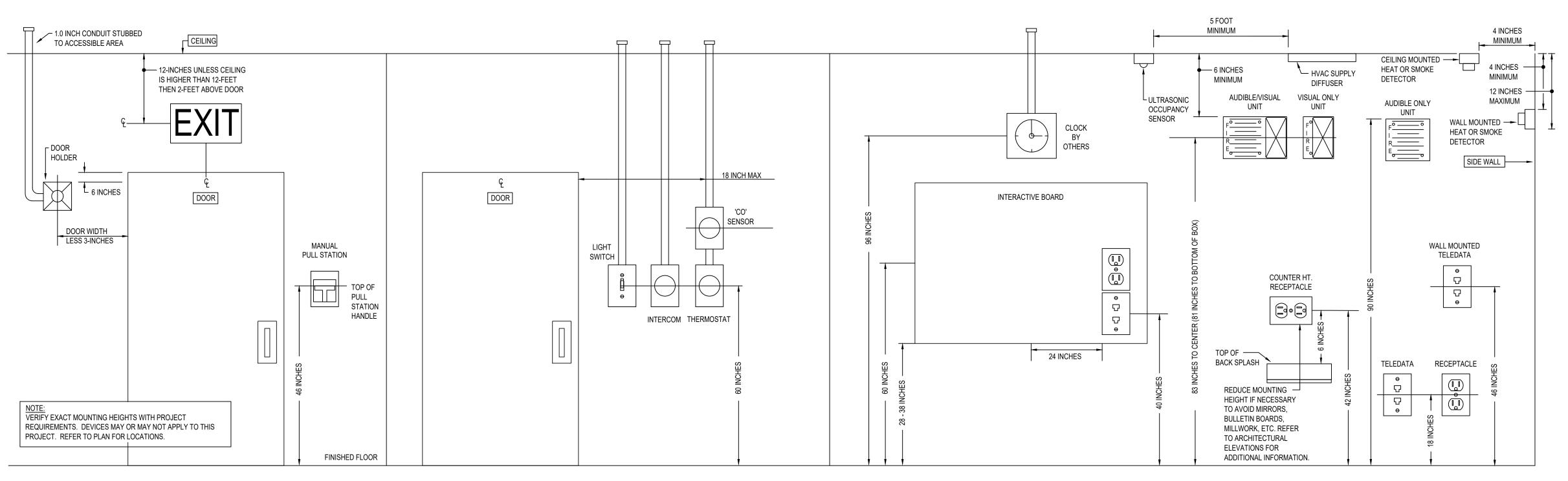
1. CALLOUTS LISTED COORDINATE WITH ELECTRICAL CONNECTION DESIGNATIONS ON KITCHEN EQUIPMENT PLANS. 2. COORDINATE FINAL CONNECTIONS WITH SUBMITTED AND APPROVED KITCHEN EQUIPMENT.

KITCHE	N MECH EQUIPMENT SO	CHEDULE									
CALLOUT	DESCRIPTION	VOLTS	СВ	CIRCUIT	WIRE CALLOUT	KVA	FLA	MCA	DISCONNECT	NEMA	NOTES
AC-1	AIR CURTAIN	120V 1P 2W				0.5			TOGGLE SWITCH	NEMA 1	REUSE EXISTING CIRCUIT FROM PANEL (E)K1
EF-1	EXHAUST FAN RM 1K3	120V 1P 2W	20/1	KB-41	3/4"C,2#12,#12G	0.05			TOGGLE SWITCH		INTERLOCK WITH LIGHTING CIRCUIT
EH-1	ELECTRIC HEATER RM 1K3	120V 1P 2W	20/1	KB-38	3/4"C,2#12,#12G	0.5			HARDWIRED CONNECTION	NEMA 1	DISCONNECT INTEGRAL TO EQUIPMENT. REF MECHANICAL PLANS.
GWH-1	GAS WATER HEATER RM 1K3	120V 1P 2W	20/1	KB-43	3/4"C,2#12,#12G	0.8			DUPLEX RECEPTACLE	NEMA 1	
HPU/FCU-4	MINI SPLIT/HEAT PUMP	208V 2P 2W	20/2	KB-42,44	3/4"C,2#12,#12G	2.75		10	FUSED	NEMA 3R	INDOOR UNIT FED FROM OUTDOOR UNIT. PROVIDE LOCAL TOGGLE DISCONNECT AT INDOOR UNIT.
HPU/FCU-5	MINI SPLIT/HEAT PUMP	208V 2P 2W	20/2	KB-46,48	3/4"C,2#12,#12G	2.75		10	FUSED	NEMA 3R	INDOOR UNIT FED FROM OUTDOOR UNIT. PROVIDE LOCAL TOGGLE DISCONNECT AT INDOOR UNIT.
KEF-1	KITCHEN EXHAUST FAN	208V 3P 4W	20/3	KB-45,47,49	3/4"C,4#12,#12G	1.2	6.6	8.7	FUSED	NEMA 3R	ROUTE CONTROL WIRING VIA KITCHEN HOOD CONTROL PANEL
KEH-1	KITCHEN HOOD	208V 3P 4W	20/3	KB-32,34,36	3/4"C,4#12,#12G	1.2	6.6	8.7	FUSED	NEMA 3R	ROUTE CONTROL WIRING VIA KITCHEN HOOD CONTROL PANEL
MAU-1	KITCHEN MAKE UP AIR UNIT	208V 3P 3W	20/3	KB-51,53,55	3/4"C,3#12,#12G	2.2	6.1	7.7	FUSED	NEMA 3R	ROUTE CONTROL WIRING VIA KITCHEN HOOD CONTROL PANEL

1. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION. 2. COORDINATE FINAL CONNECTIONS WITH FURNISHED EQUIPMENT.

3. REFER TO MANUFACTURER DATA FOR RECOMMENDED FUSE SIZE IF REQUIRED.

E22 E21 E20



- 0.25 INCH HIGH LETTERS (TYP.)

— 0.125 INCH HIGH LETTERS (TYP.)

— INDICATE SERIES OR FULLY RATED

- ENGRAVED 0.0625 INCH THICK

PANEL "LA" -

120/208V 3Ø 4 WIRE

22,000 AIC - SERIES FED FROM: "MDP-4"

1 TYPICAL DEVICE MOUNTING

