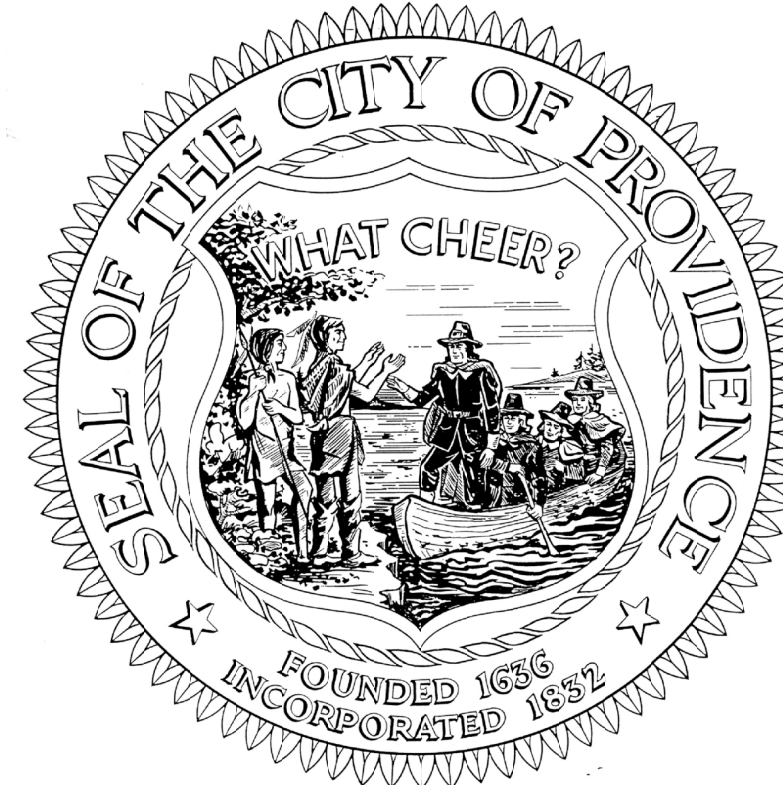
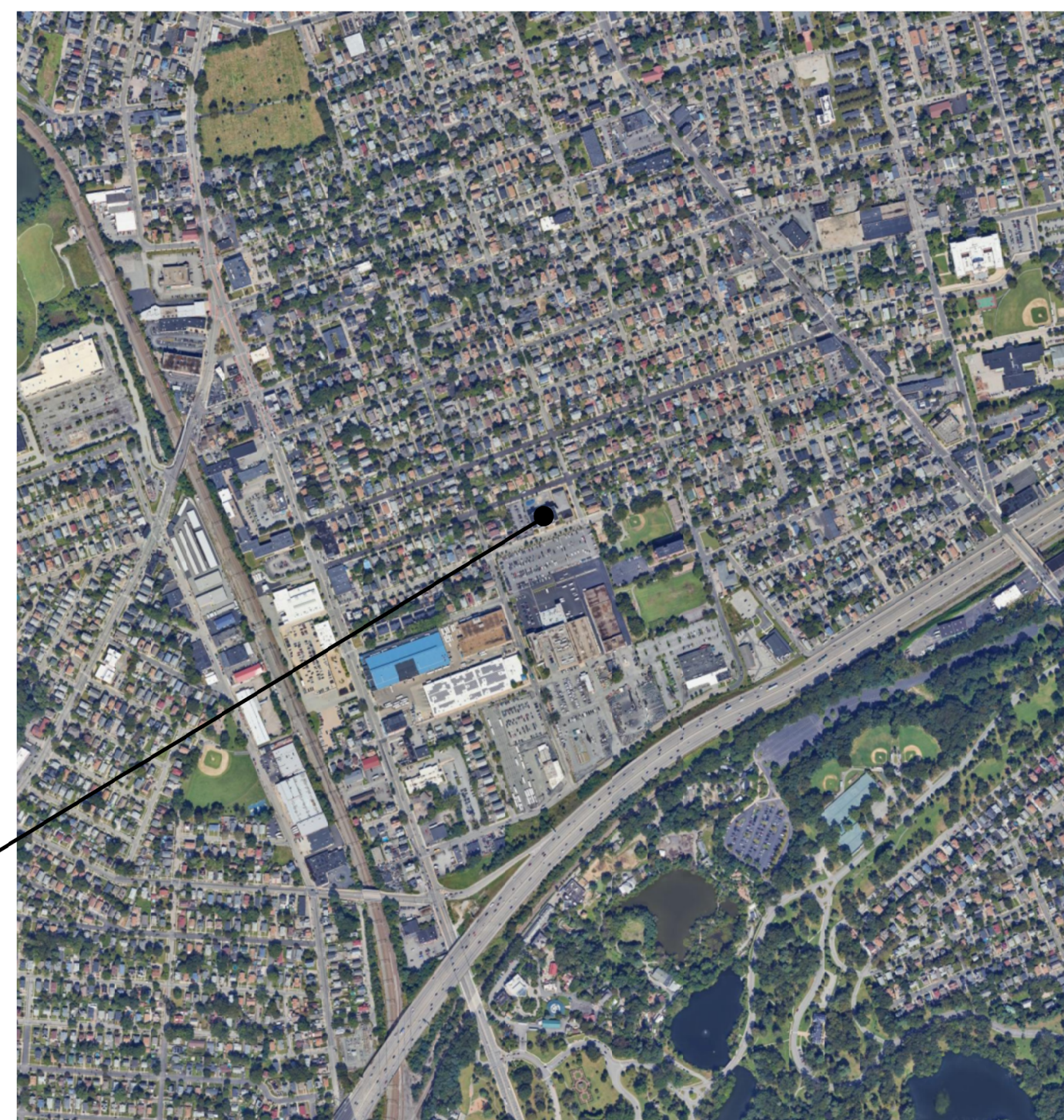


Providence
Schools

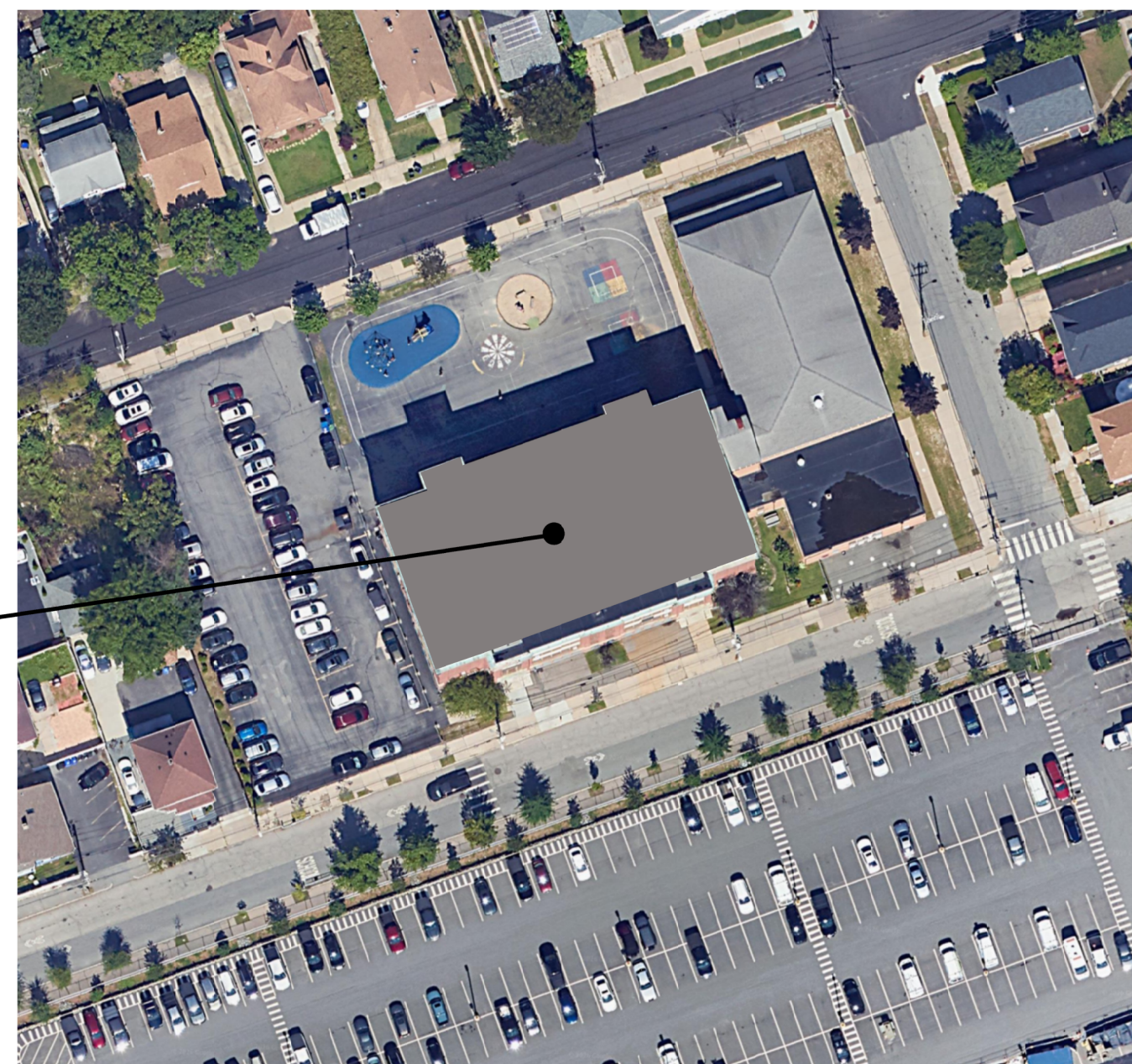


An aerial photograph of a city, likely Seattle, showing a dense urban grid. A black dot is placed on a street in the central-right portion of the image, with a thin black line extending from the dot towards the top right corner. The city is surrounded by green, forested hills. A large body of water is visible on the right side of the image.

CITY OF PROVIDENCE
LILLIAN FEINSTEIN E.S
159 SACKETT STREET
PROVIDENCE, RI 02905

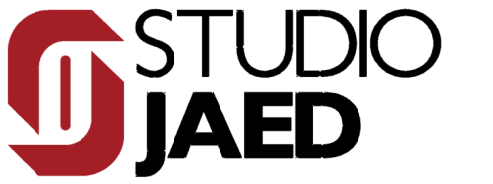


AREA MAP



SITE MAP

P-101 PLUMBING ART ROOM PLAN



2500 WRANGLE HILL ROAD, STE 110
BEAR, DELAWARE 19701
P: (302) 832-1652

306 E. CAMDEN-WYOMING AVENUE
CAMDEN, DELAWARE 19934
P: (302) 832-1652

42 WEYBOSSETT STREET, STE 403
PROVIDENCE, RHODE ISLAND 02903
P: (401) 648-0884

ARCHITECT / ENGINEER SEAL

PROVIDENCE PUBLIC
SCHOOL DEPARTMENT
WILLIAM FEINSTEIN ELEMENTARY SCHOOL

ART ROOM & OFFICE RENNOVATION

159 SACKETT STREET
PROVIDENCE, RI 02905

[illegible]

DRAWN AG	CHK'D TAD	PROJECT NO. 26070
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G-000

ADDRESS: 159 SACKETT STREET

8/15/2025 3:52 PM

[illegible]

A	AND	E.	EAST	LIN.	LINEAR	S.	SOUTH
AN	ANGLE	(E)	EXISTING	L.O.C.	LIMITS OF CONTRACT	S.A.C.T.	SUSPENDED ACOUSTICAL
AT	EA	EACH	EACH	LOCATION		S.C.	CEILING TILE
B	B	B	B	B	B	S.C.D.	SOLID CORE
Ø	CENTERLINE OR ROUND	E.J.	EXPANSION JOINT	L.P.	LOW POINT	S.C.H.D.	SEAT COVER DISP.
d	PENNEY	ELEC.	ELECTRICAL	LT.	LIGHT	SCHED.	SCHEDULE
∠	PERPENDICULAR	ELV.	ELEVATION	M.S.	MASONRY	S.D.	SEAM DISPENSER
∟	PLATE	EMER.	EMERGENCY	MAX	MAXIMUM	SECT.	SECTION
∟	FOUND OR NUMBER	ENCL.	ENCLOSURE	M.B.	MACHINE BOLT	SOFT	STRUCTURALLY GLAZED
		EQ.	EQUA	M.C.	MECHANICAL CONTRACTOR		FINISH TILE
A.B.	ANCHOR BOLT	EQUIP.	EQUIPMENT	MECH.	MECHANICAL	SH	SHELF
A.C.	ASPHALTIC CONCRETE	E.W.	EACH WAY	MEMB.	MEMBRANE	SHR.	SHOWER
AC	AIR CONDITION	EXIST.	EXISTING	MFG.	MANUFACTURED	SHT.	SHEET
ACQUS	ACOUSTICAL	EXPO.	EXPOSED	MFR.	MANUFACTURE	SHTG.	SHEATHING
ACT	ACOUSTICAL CEILING TILE	EXP.	EXPANSION	MH.	MANHOLE	SIM	SIMILAR
ACCESS.	ACCESSORIES	EXT.	EXTENSION	MIN.	MIRROR	S.N.D.	SANITARY NAPKIN
ADJ.	ADJACENT	EXTR.	EXISTING TO REMAIN	MIR.	MIRROR		DISPENSER
ADJ.	ADJACENT	MISC.	MISCELLANEOUS	MISC.	MISCELLANEOUS	S.N.R.	SANITARY NAPKIN
AGGR.	AGGREGATE	MAR.	MARKER BOARD	MAR.	MARKER BOARD		RECEPTACLE
ALT.	ALTERNATE	M.O.	MASONRY OPENING	M.O.	MASONRY OPENING	S & P	SHELF & POLE
ALUM.	ALUMINUM	F.B.O	FURNISHED BY OTHERS	MOD.	MODULAR	SPEC.	SPECIFICATION
AND.	ANODIZED	F.D	FLOOR DRAIN	M.R.	MOISTURE RESISTANT	SG.	SQUARE
APPROX.	APPROXIMATE	FDN.	FOUNDATION	MOUNTED	MOUNTED	SST.	STAINLESS STEEL
ARCH.	ARCHITECTURAL	F.F.	FIRE FIRE EXISTING CAB.	MTL	METAL	S.S.K.	SERVICE SINK
AWS	AMERICAN WELDING SOCIETY	F.E.C.	FIRE EXISTING CAB.	MULL.	MULLION	STA.	STATION
		F.H.	FIRE HYDRANT			STD.	STANDARD
B.B	BOTTOM OF BEAM	F.H.C.	FIRE HOSE CAB.	N.	NORTH	STL.	STEEL
BD	BOARD	FINSH	FINISH	N.	NORTH	STOR.	STORAGE
BITUM	BITUMINOUS	F.L.	FLOOR LINE	N/A	NOT APPLICABLE	STR.	STRUCTURAL
B.J.	BOTTOM OF JOIST	FLR	FLOOR	N.I.C.	NOT IN CONTRACT	SUSP.	SUSPENDED
BLDG.	BUILDING	FLASH.	FLASHING	N.O. #	NUMBER	SYM.	SYMMETRICAL
BLK	BLOCK	FLASH.	FLASHING	NOM.	NOMINAL	S.W.	SEWALK
BLKG.	BLOCKING	F.O.C.	FACE OF CONCRETE	N.R.C.	NOISE REDUCTION	T.B.	TOP OF BEAM
BM.	BEAM	F.O.M.	FACE OF MASONRY	N.S.	NEAR SIDE	T/B	TOWEL BAR
BTM.	BOTTOM	F.O.S.	FACE OF STUDS	N.T.S.	NOT TO SCALE	T & B	TOP AND BOTTOM
		FPL	FIRE PLACE	O.	OVER	T.C	TOP OF CURB
CAB.	CABINET	FRF.	FIREPROOF	O.	OVER	TEL.	TELEPHONE
CATV	CABLE TELEVISION	FRMG.	FRAMING	O.A.	OVER-ALL	T.E.	TEMPERED
CK-B	CHALK BOARD	FT	FOOT OR FEET	O.C.	ON CENTER	TERRAZO	TERRAZO
C.B	CATCH BASIN	FTC	FOOTING	O.C.	ON CENTER	T.G & G	TONGUE & GROOVE
CEM.	CEMENT	FURR.	FURRING	OFF.	OFF	THK.	THICK
CER	CERAMIC	F.W.S.	FINISHED WALL SURFACE	O.H.	OVERHEAD	T.J.	TOOL JOINT
CHAM.	CHAMFER	FRP	FIBERGLASS REINFORCED	O.PNG.	OPENING	T.K.B.	TRUCK BOARD
CHFM	COLD FORM METAL FRAMING	PL.	PLASTIC PANEL	OPNG.	OPENING	T.K.S.	TRUCK STRIP
C.I.	CAST IRON	GA.	GAUGE	OPPOSITE	OPPOSITE	T.L.	TOP OF LEDGER
C.J.	CONTROL JOINT	GA.	GAUGE	OPPOSITE HAND	OPPOSITE HAND	T.O.F	TOP OF FOOTING
C.L.	CENTER LINE	GAUV.	GALVANIZED	O.T.S.	OPEN TO STRUCTURE	T.O.S.	TOP OF STEEL
CLG.	CEILING	G.B.	GRAB BAR			T.P.	TOP OF PAVEMENT
CLKG.	CAULKING	G.D.	GARAGE DISPOSAL	PART.	PARTITION	T.P.D.	TOILET PAPER DISP.
CLQ.	CLOSET	GL.	GLASS	PART.	PARTITION	T.R.D.	TREAD
CLR.	CLEAR	GLB.	GLU-LAM BEAM	P.C.	PORTLAND CEMENT	T.S.	TOP OF SHEATHING
CMU	CONCRETE MASONRY UNIT	GND.	GROUND	PEDEST.	PEDestal	TSL	TOP OF SLAB
CNTR.	COUNTER	GR.	GRADE	PERP.	PERPENDICULAR	TST	TOP OF STEEL
C.O	CLEAN OUT	GYP.	GYPsum	P.H.	PANIC HARDWARE	T.V.	TELEVISION
COL.	COLUMN			P.L.	PROPERTY LINE	TW	TOP OF WALL
CONC.	CONCRETE	H.	HIGH	PLAM.	PLASTIC LAMINATE	TYP	TYPICAL
CONN.	CONNECTION	H.B.	HOSE BIBB	PLAS.	PLASTER		
CONSTR.	CONSTRUCTION	H.DCP	HANDICAPPED	PLUMB.	PLUMBING	U.G.	UNDERGROUND
CONT.	CONTINUOUS	H.C.	HOLLOW CORE	P.P.	POWER POLE	UNFIN.	UNFINISHED
CORR.	CORRODED/CORRUGATED	H.D.	HOLD DOWN	PR	PAIR	UNO.	UNLESS NOTED
COORD.	COORDINATE	H.D.	HOT DIPPED GALVANIZED	PROCD.	PROCESSED		OTHERWISE
CPT.	CARPET	HDR.	HEADER	PRCST.	PRECAST	UR.	URINAL
C.T.	CERAMIC TILE	HDWR.	HARDWOOD	PRT. BRD.	PARTICLE BOARD		
CPU	CENTRAL PROCESSING UNIT	HDWR.	HARDWARE	PAINT	PAINT		
CRT	CLOCK	H.I.	HIGH INTENSITY DISCHARGE	P.T.	PRESSURE TREATED	VCT	VINYL COMPOSITION
C.R.	CATHODE RAY T						

	INDICATED WINDOW, STOREFRONT, OR HM FRAME TYPE - SEE A-400 FOR MORE INFORMATION		WALL TYPE TAG
	KEY NOTE TAG. SEE KEY NOTE INSTRUCTIONS / NARRATIVE FOR MORE INFORMATION		WINDOW IDENTIFICATION TAG
	ENLARGED DETAIL (3) SHEET WHERE DRAWN (A-500)		FIN FLOOR ELEVATION LEVEL MARKER
	EXISTING WALL TO REMAIN		ROOM NAME ROOM NUMBER
	NEW WALL CONSTRUCTION (SEE WALL TYPE FOR CONSTRUCTION MATERIAL(S))		CHANGE IN ELEVATION
	WALL DEMOLITION		DEMOLISHED POWER OUTLET
	REVISION		EXISTING LIGHT SWITCH
	ELEVATION IDENTIFICATION (1) WALL SECTION (A-501)		EXISTING POWER OUTLET
	SHEET WHERE DRAWN (1) SHEET WHERE DRAWN (A-401)		NEW POWER OUTLET
	DENOTES PLAN DETAIL (DETAIL #1/SHEET A-102)		

SCALE: 1 1/2" = 1'-0"

- 2500 WYRANGLE HILL ROAD, STE 110
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P: (302) 832-1652
- 306 E. CAMDEN-WYOMING AVENUE
CAMDEN, DELAWARE 19934
P: (302) 832-1652
- 42 WEYBOSSETT STREET, STE 403
PROVIDENCE, RHODE ISLAND 02903
P: (401) 648-0884

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ARCHITECT / ENGINEER SEAL

PROVIDENCE PUBLIC
SCHOOL DEPARTMENT
LILIAN FEINSTEIN ELEMENTARY SCHOOL
ART ROOM & OFFICE RENNOVATION
159 SACKETT STREET
PROVIDENCE, RI 02905

[illegible]

GENERAL NOTES, ABBREVIATIONS AND SYMBOLS

FOR
CONSTRUCTION

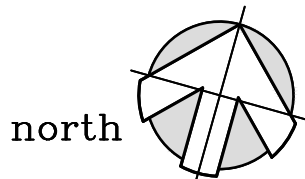
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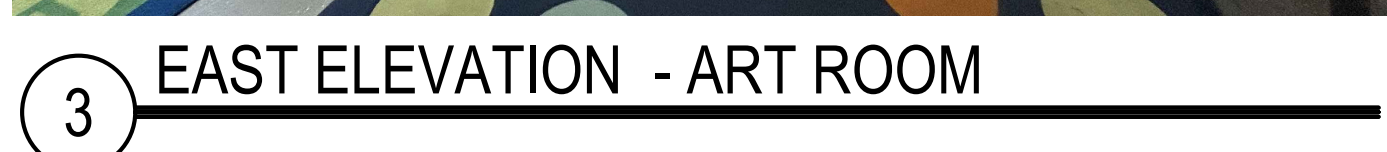
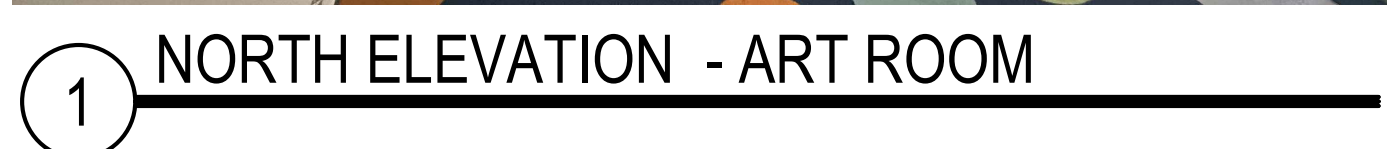
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north 



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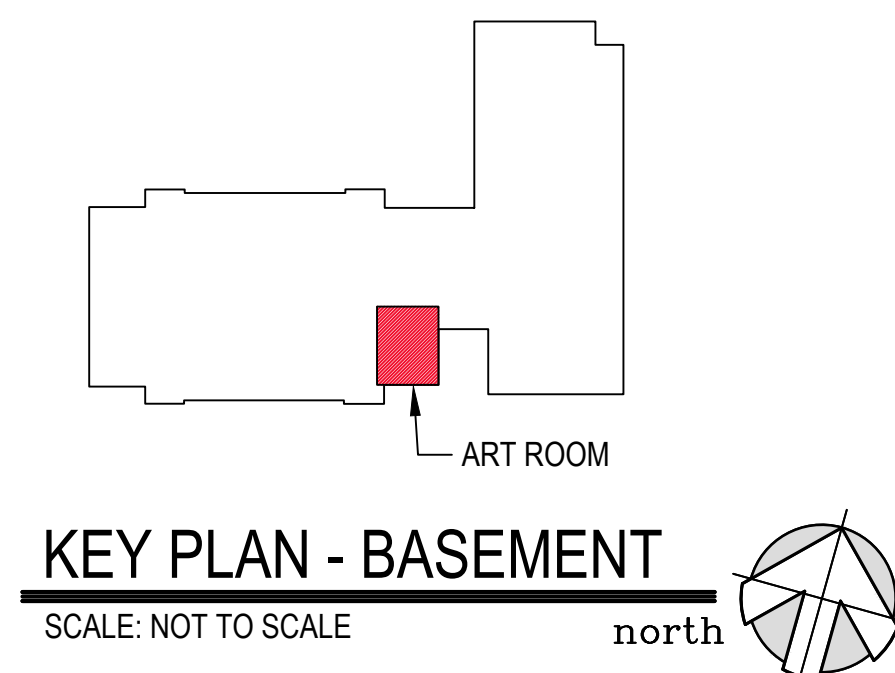


1. REMOVE AND DISPOSE OF ALL ABANDONED DUCTWORK, HVAC, PIPE AND ELECTRICAL ITEMS IN WALLS, CEILINGS, ETC. NOT NOTED TO BE RELOCATED, AND OR REUSED OR TO REMAIN.
2. ALL FURNITURE AND MISCELLANEOUS ITEMS TO BE REMOVED BY OWNER PRIOR TO THE START OF WORK.
3. REMOVE AND DISPOSE OF ALL WINDOW SHADES AND HARDWARE.
4. PPSD TO MARK ALL ABANDONED DUCTWORK, HVAC, AND ELECTRICAL ITEMS THAT ARE TO BE REMOVED PRIOR TO THE START OF WORK. CONTRACTOR TO VERIFY ITEM IS INACTIVE PRIOR TO REMOVAL.
5. AREAS OF THE EXISTING BUILDING CONTAIN MATERIALS THAT REQUIRE ABETMENT. COORDINATE W/ HAZARDOUS MATERIALS REPORT PROVIDED IN THE PROJECT MANUAL. IF ADDITIONAL POTENTIAL MATERIALS ARE OBSERVED, CONTRACTOR TO NOTIFY OWNER AND ARCHITECT BEFORE PROCEEDING W/ WORK.

	KEY NOTE TAG. SEE KEY NOTE INSTRUCTIONS / NARRATIVE FOR MORE INFORMATION
	INDICATES EXISTING TO BE REMOVED + DEMOLISHED
	INDICATES NEW PARTITION

D-01	ABATE, REMOVE AND DISPOSE OF FLOORING, FLOORING ADHESIVES, ADHESIVE RESIDUE, DOWN TO TOP OF FLOOR DECK. FLASH PATCH FLOOR TO PREPARE FOR NEW FLOORING INSTALLATION. COORDINATE REQUIREMENTS W/ FLOORING MANUFACTURER REQUIREMENTS, INSTRUCTIONS, AND SPECS.
D-02	REMOVE AND DISPOSE OF PLUMBING FIXTURES AND PIPING TEMPORARILY CAP PIPING FOR INSTALLATION OF NEW FIXTURE.
D-03	REMOVE AND DISPOSE OF ACOUSTIC WALL PANEL.
D-04	SCRAPE, REMOVE AND DISPOSE OF PEELING AND LOOSE WALL TO SOUND MATERIAL. PATCH AND REPAIR ALL FOR NEW FINISH.
D-05	REMOVE AND SALVAGE PORTABLE AC UNIT. TURN OVER TO OWNER FOR RE-USE.
D-06	REMOVE AND PROTECT EXISTING KILN THROUGH CONSTRUCTION FOR LATER REINSTALLATION.
D-07	REMOVE, RELOCATE, AND PROTECT EXISTING WHITEBOARD FOR LATER REINSTALLATION. TO MAKE ROOM FOR NEW ART SINKS.
D-08	REMOVE AND DISPOSE OF EXISTING WINDOW IN ITS ENTIRETY.

C-01	PROVIDE AND INSTALL NEW LVT FLOORING WHERE INDICATED; PREPARE SUBSTRATE PER MANUFACTURERS REQUIREMENTS, INCLUDING LEVELING AND MOISTURE MITIGATION AS REQUIRED. SEE FINISH SCHEDULE.
C-02	PATCH, REPAIR, AND PREP ALL EXISTING WALL SURFACES TO RECEIVE FINISH; PROVIDE NEW PAINT FINISH WHERE INDICATED.
C-03	SAND, PRIME, AND PAINT ALL EXISTING WOOD TRIM AND WAINSCOTING.
C-04	PROVIDE AND INSTALL NEW WINDOW SHADES AT ALL WINDOWS WHERE INDICATED. SEE SPEC.
C-05	PROVIDE A NEW TWO-BAY ART SINK, INCLUDING FAUCETS, SUPPLY, AND DRAIN CONNECTIONS; COORDINATE WITH PLUMBING AND CASEWORK AS REQUIRED.
C-06	PROVIDE A NEW ADA ACCESSIBLE ART SINK, INCLUDING FAUCETS, SUPPLY, AND DRAIN CONNECTIONS; COORDINATE WITH PLUMBING AND CASEWORK AS REQUIRED.
C-07	REINSTALL EXISTING KILN IN EXISTING LOCATION AND VENT OUT WINDOW ABOVE.
C-08	PROVIDE AND INSTALL NEW WALL MOUNTED A/C UNIT. SEE MECH. DWGS.
C-09	REINSTALL EXISTING WHITEBOARDS WHERE INDICATED.
C-10	SAND, PRIME AND PAINT ALL EXISTING RADIATORS FOR NEW PAINT FINISH.



SCALE: NOT TO SCALE north

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PROVIDENCE PUBLIC
NO CONTRACTUAL OBLIGATION IS ASSUMED BY
THE ARCHITECT FOR THE BENEFIT OF ANY OTHER
PERSON INVOLVED IN THE PROJECT.

SIGNATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____

THE ARCHITECT WHO SEAL, SIGNED, AND
DATED THIS DOCUMENT HAS NOT BEEN
EMPLOYED TO FURNISH CONSTRUCTION
ADMINISTRATION AS DEFINED IN 24 DEL.C. §303(c).

ARCHITECT / ENGINEER SEAL

PROVIDENCE PUBLIC
SCHOOL DEPARTMENT
LILIAN FEINSTEIN ELEMENTARY SCHOOL

ART ROOM & OFFICE RENNOVATION

159 SACKETT STREET
PROVIDENCE, RI 02905

[illegible]

REVISIONS

[illegible]

SHEET TITLE

PARTIAL BASEMENT DEMOLITION AND NEW WORK PLAN

ISSUE

FOR
CONSTRUCTION

8-19-2028

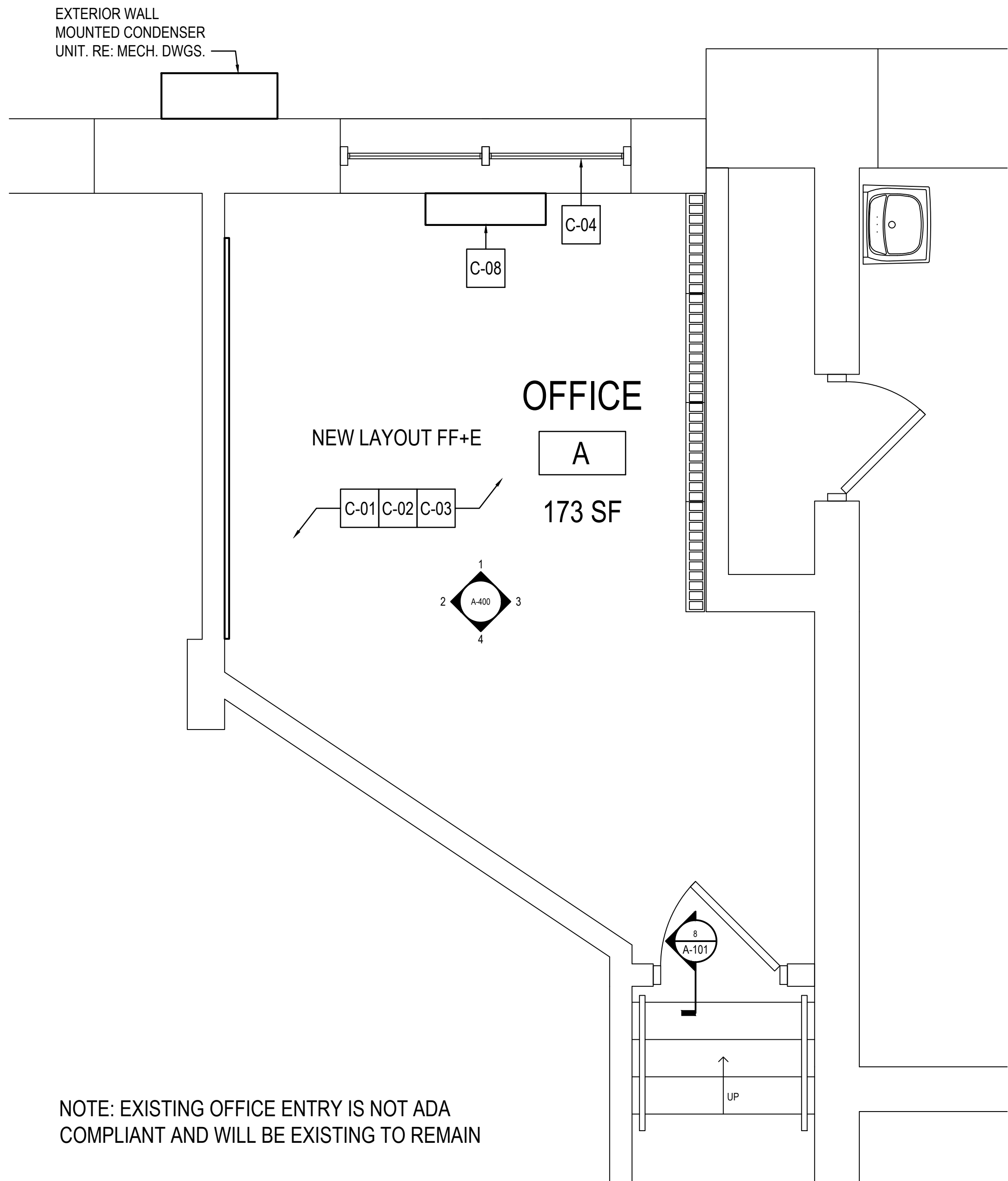
DRAWN	CHKD	PROJECT NO.
AG	TAD	26070

SHEET NO.

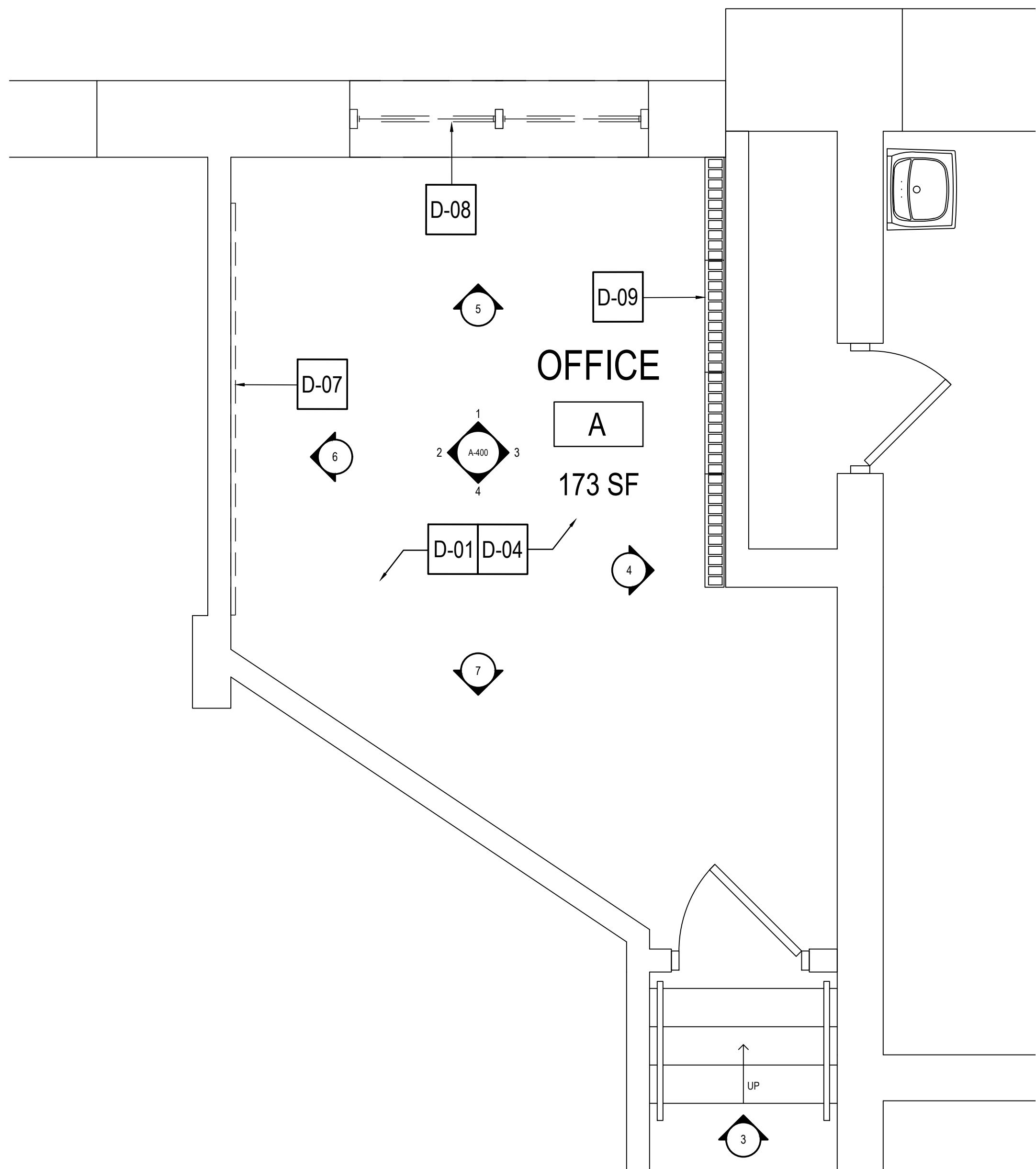
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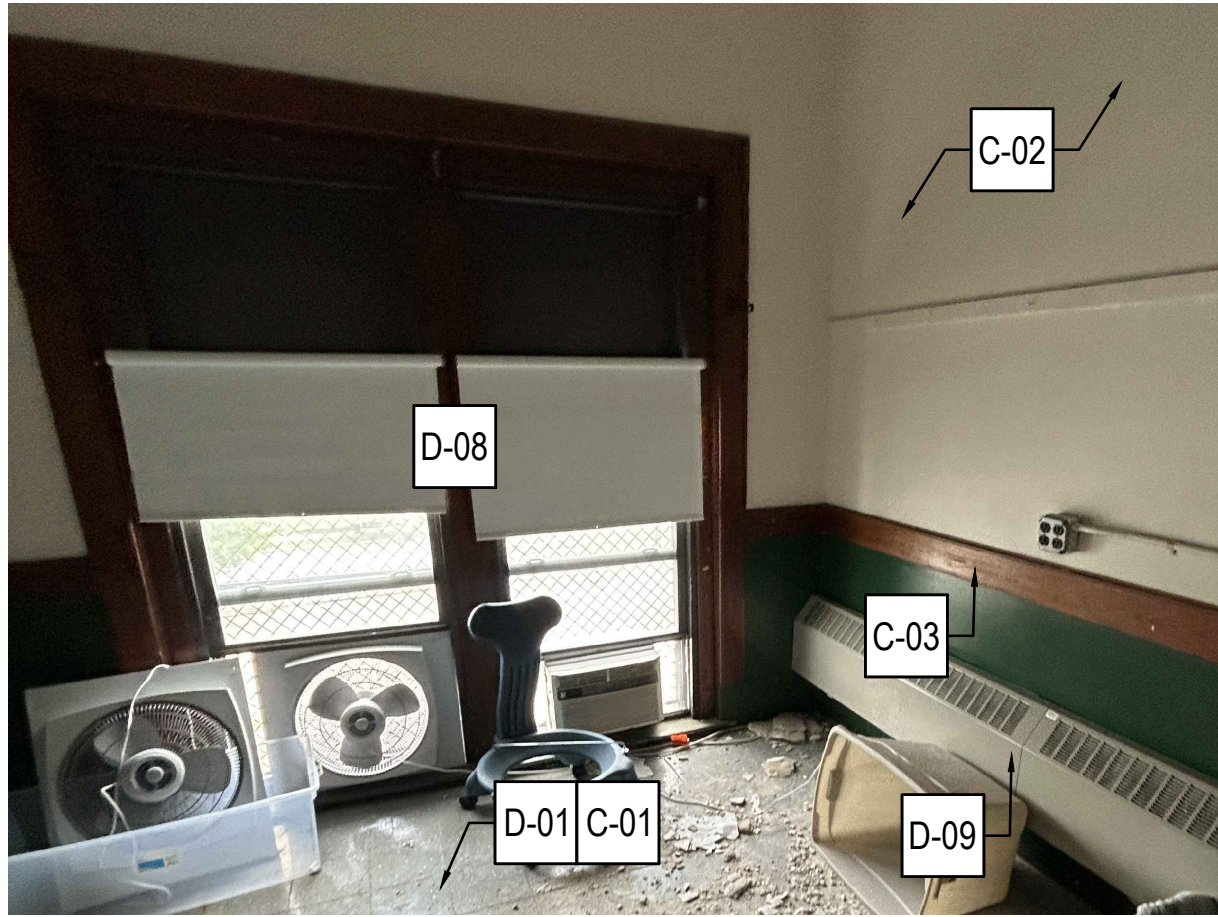
1 PARTIAL SECOND FLOOR PLAN - NEW WORK
SCALE: 1/2" = 1'-0"



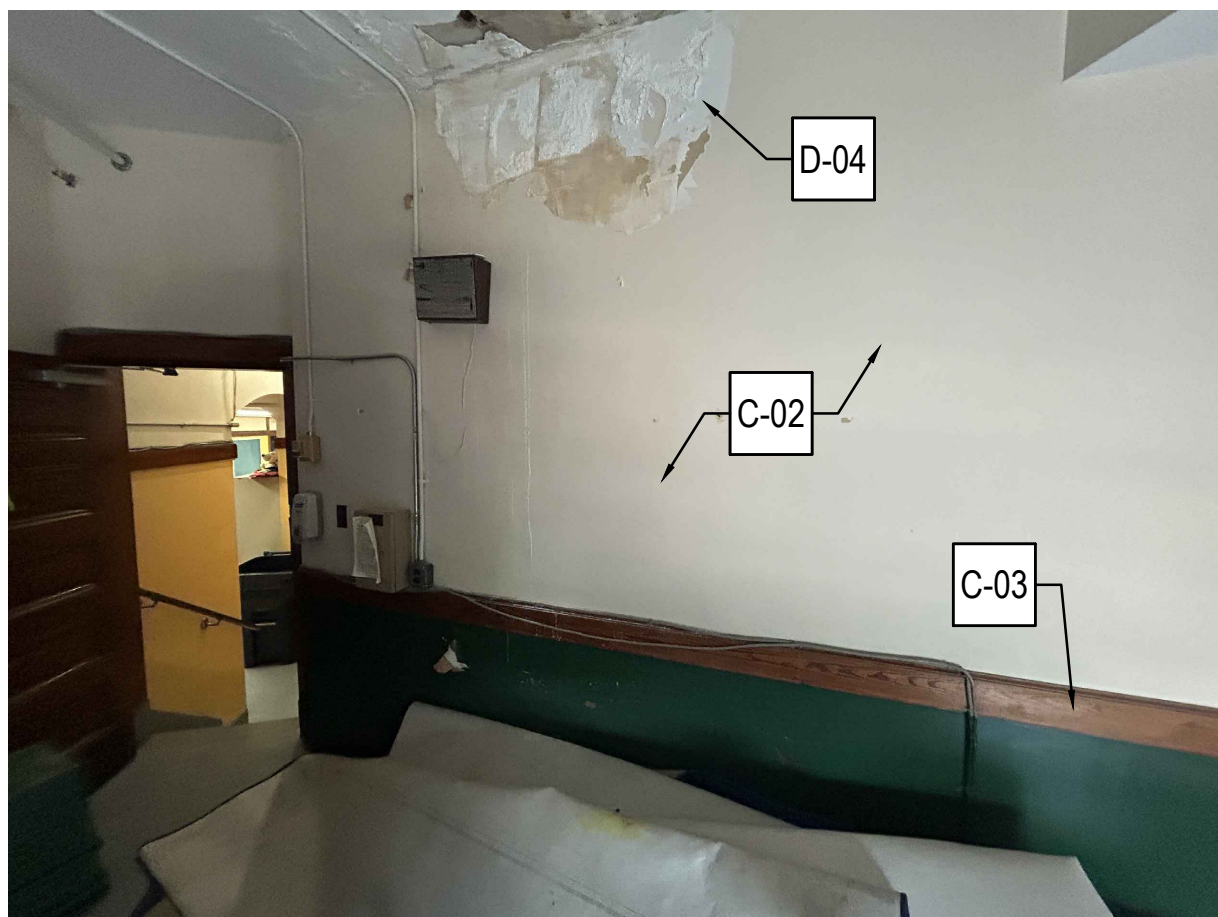
2 PARTIAL SECOND FLOOR PLAN - DEMOLITION
SCALE: 1/2" = 1'-0"



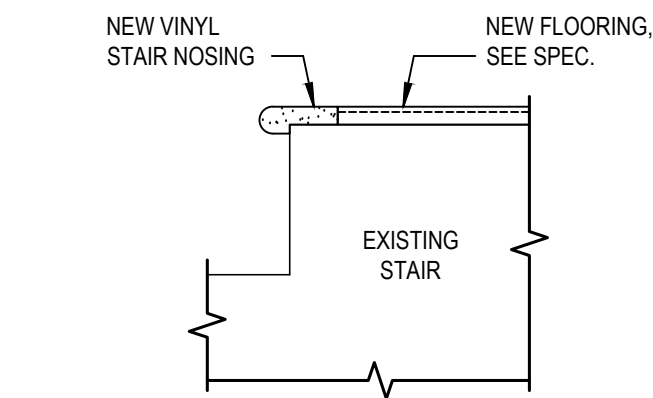
3 EXISTING ENTRANCE - OFFICE



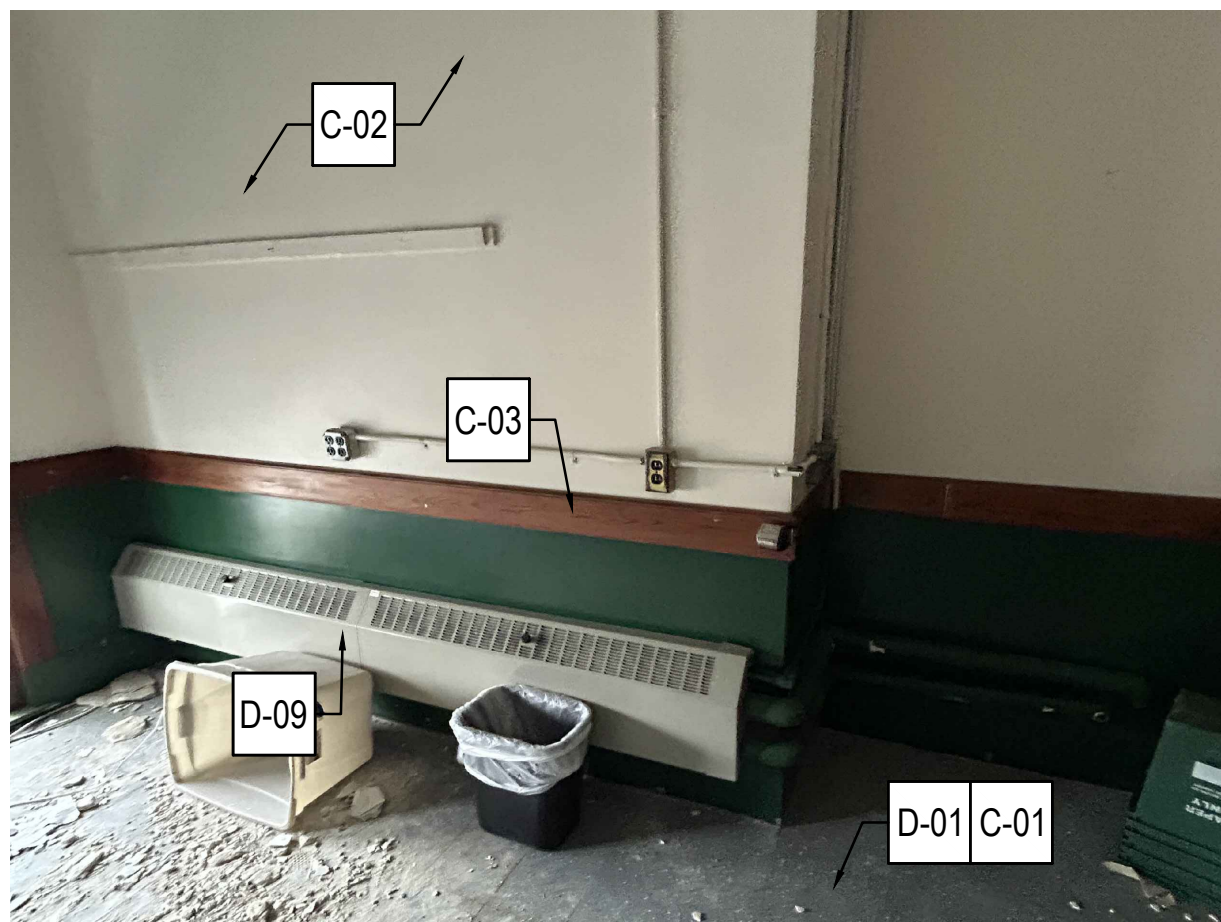
5 NORTH ELEVATION - OFFICE



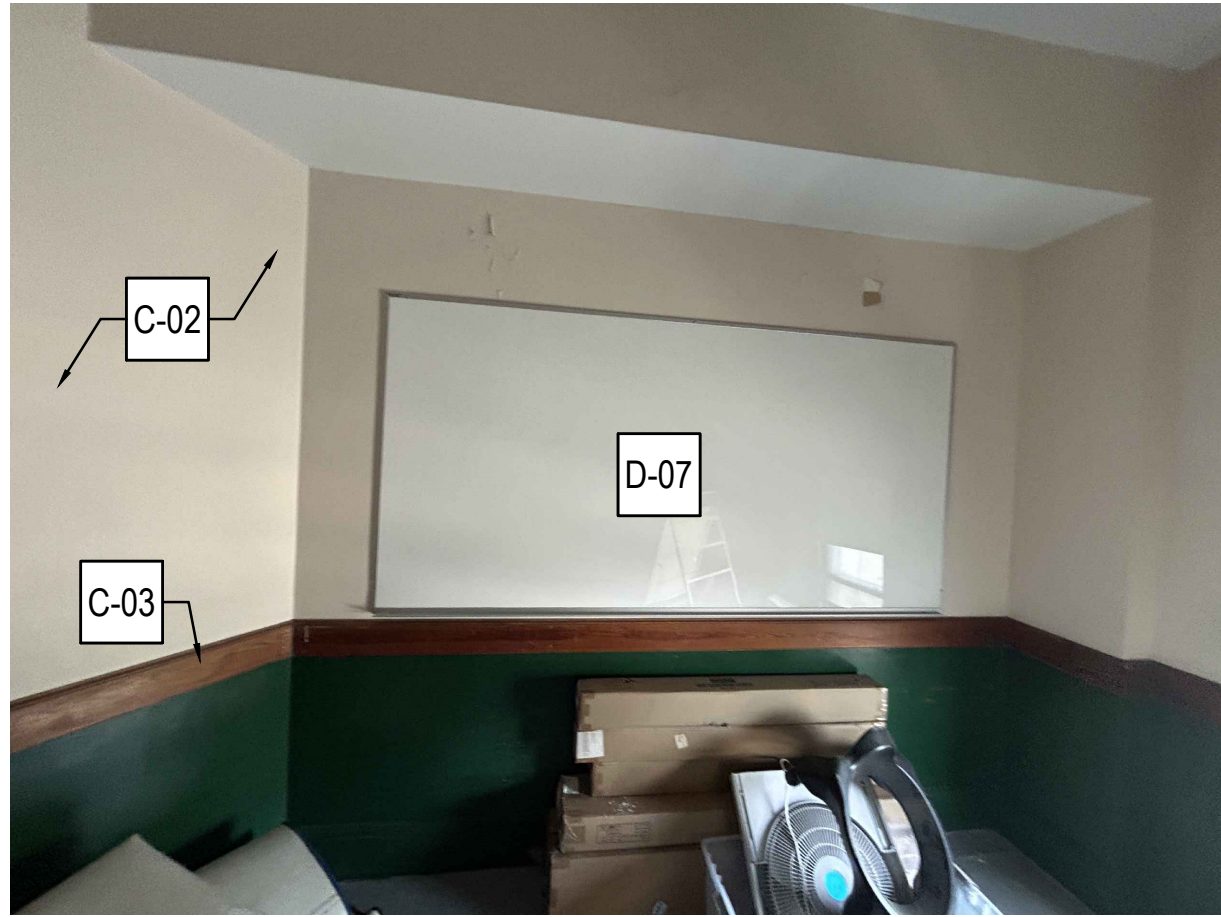
7 NORTH ELEVATION - OFFICE



8 STAIR NOSING DETAIL
SCALE: 1 1/2" = 1'-0"



4 EAST ELEVATION - OFFICE



6 WEST ELEVATION - OFFICE

GENERAL DEMOLITION NOTES

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SYMBOL LEGEND

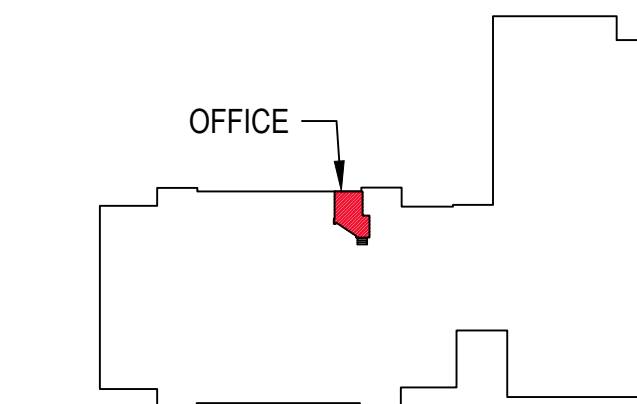
- C-02 KEY NOTE TAG. SEE KEY NOTE INSTRUCTIONS / NARRATIVE FOR MORE INFORMATION
- INDICATES EXISTING TO BE REMOVED + DEMOLISHED
- INDICATES NEW PARTITION

DEMOLITION KEY NOTES

- D-01 ABATE, REMOVE AND DISPOSE OF FLOORING, FLOORING ADHESIVES, ADHESIVE RESIDUE, DOWN TO TOP OF FLOOR DECK. FLASH PATCH FLOOR TO PREPARE FOR NEW FLOORING INSTALLATION. COORDINATE REQUIREMENTS W/ FLOORING MANUFACTURER REQUIREMENTS, INSTRUCTIONS, AND SPECS.
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CONSTRUCTION KEY NOTES

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- C-09 REINSTALL EXISTING WHITEBOARDS WHERE INDICATED.
- C-10 SAND, PRIME AND PAINT ALL EXISTING RADIATORS FOR NEW PAINT FINISH.



KEY PLAN - SECOND FLOOR
SCALE: NOT TO SCALE



Website: www.StudioJAED.com
Email: info@StudioJAED.com

ARCHITECT

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P: (302) 832-1602
40 W. ROBERT STREET, STE 403
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DATE OF REGISTRATION EXPIRATION: _____

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ARCHITECT / ENGINEER SEAL

PROVIDENCE PUBLIC
SCHOOL DEPARTMENT
LILLIAN FEINSTEIN ELEMENTARY SCHOOL

ART ROOM & OFFICE RENOVATION
159 SACKETT STREET
PROVIDENCE, RI 02905

PROJECT

REVISIONS

MARK	DESCRIPTION	DATE

SHEET TITLE

PARTIAL SECOND FLOOR
DEMOLITION AND NEW
WORK PLAN

ISSUE

FOR
CONSTRUCTION

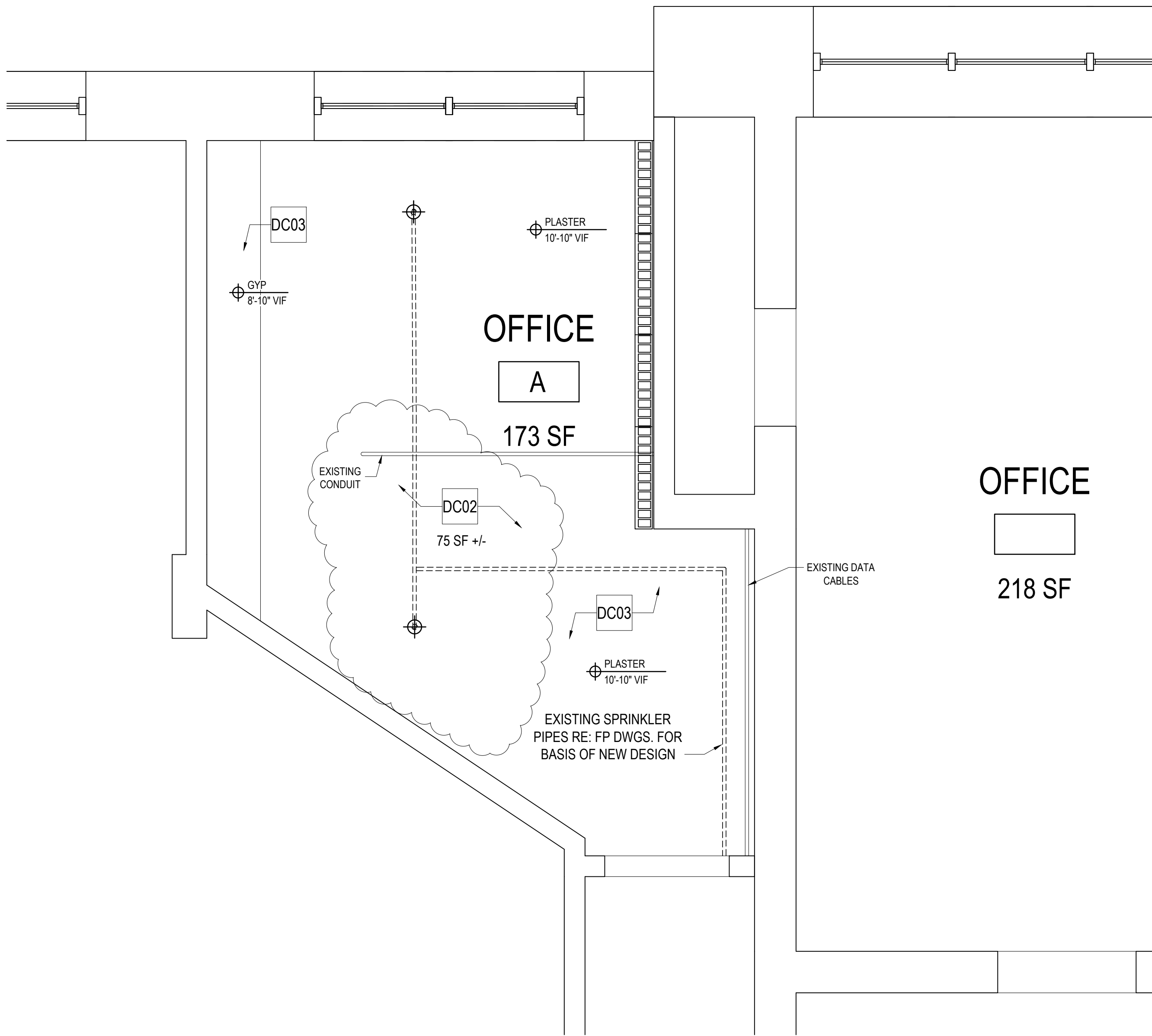
8-19-2026

DRAWN AG CHKD TAD PROJECT NO. 26070

SHEET NO.

A-101

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2 PARTIAL BASEMENT REFLECTED CEILING PLAN - DEMOLITION
AR101 SCALE: 1/2" = 1'-0"

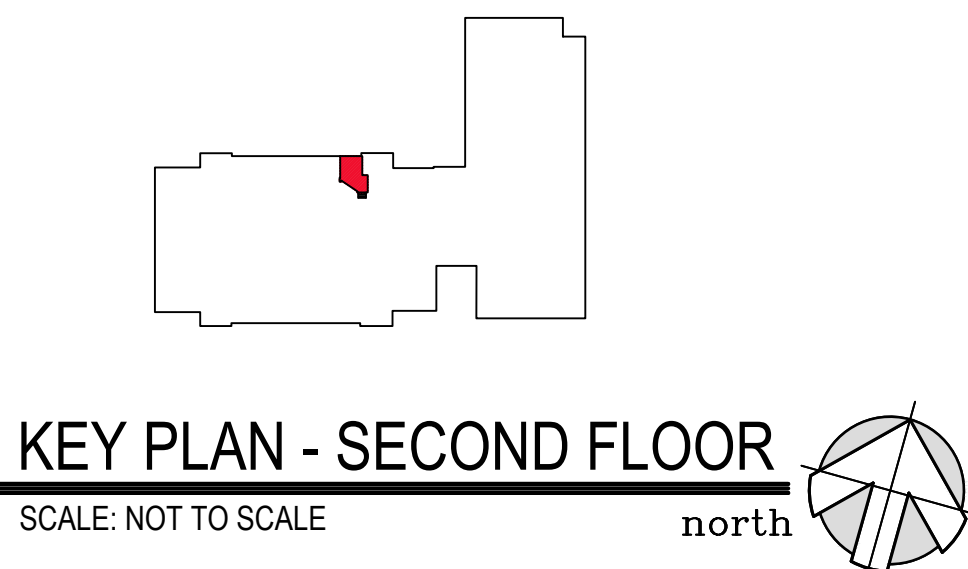


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AR101

SUSPENDED CEILING DETAILS

SCALE: 1 1/2" = 1'-0"

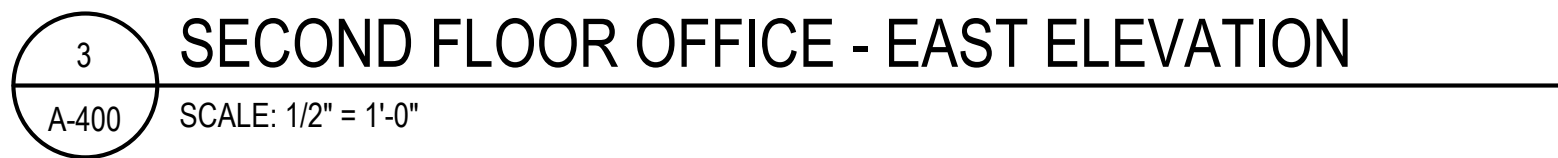
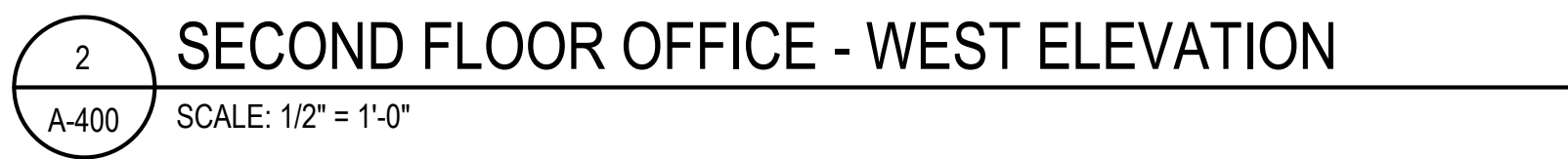
CONSTRUCTION CEILING NOTES	
C-01	INSTALL NEW ACOUSTICAL CEILING TILE SYSTEM INCLUDING SUSPENDED GRID, TILES, AND ALL NECESSARY HANGERS AND ACCESSORIES; SEE RCP FOR CEILING HEIGHT.
C-02	MODIFY AND RELOCATE EXISTING SPRINKLER HEAD LOCATIONS AND TYPE TO ALIGN WITH NEW ACT CEILING GRID; MAINTAIN CODE-COMPLIANT COVERAGE. RE: FIRE PROTECTION DWGS. FOR HYDRAULIC CALCULATIONS, SPRINKLER LAYOUT, AND ALL APPLICABLE CODE REQUIREMENTS.
C-03	PRIME AND PAINT EXISTING DUCT WORK. SEE FINISH SCHEDULE.
C-04	PRIME AND PAINT EXISTING CEILING SOFFIT. SEE FINISH SCHEDULE.



KEY PLAN - SECOND FLOOR

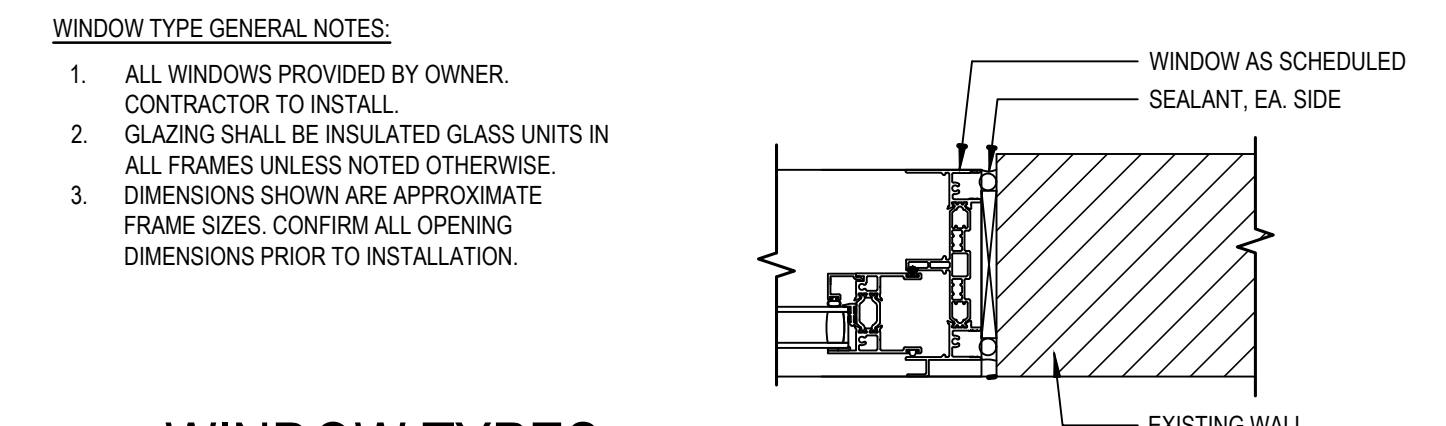
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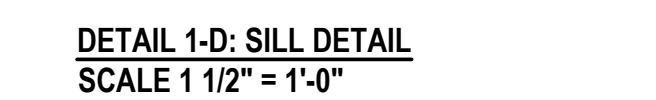
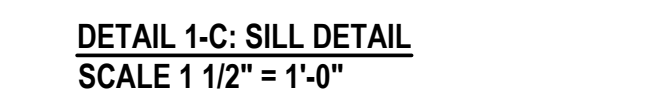


CONTRACTOR NOTES:

1. WINDOW COUNTS SHOWN INCLUDE BOTH SINGLE WINDOWS AND MULTI-WINDOW ASSEMBLIES (TWIN, QUAD, AND LARGER MULLED UNITS).
2. CONTRACTOR SHALL CONFIRM FIELD CONDITIONS, VERIFY TOTAL NUMBER OF INDIVIDUAL WINDOW UNITS AND ASSEMBLIES, AND RECONCILE THESE COUNTS WITH ALL CORRESPONDING DRAWINGS AND SCHEDULES PRIOR TO SUBMITTAL AND FABRICATION.



GLAZING LEGEND
GL-1 INSULATED CLEAR TEMPERED GLAZING FIELD VERIFY ALL ROUGH OPENINGS PRIOR TO FABRICATION



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HEET TITLE

INTERIOR ELEVATIONS, WINDOW SCHEDULE, AND DETAILS

UE

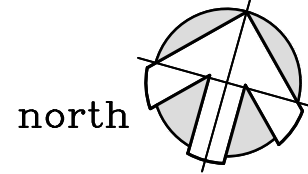
FOR
CONSTRUCTION
8-19-2026

DRAWN	CHKD	PROJECT NO.
AG	TAD	26070

SHEET NO. _____

A-400

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north

PROJECT		
REVISIONS		
MARK	DESCRIPTION	DATE
SHEET TITLE		
FURNITURE LAYOUT PLAN		
ISSUE		
FOR CONSTRUCTION		
8-19-2026		
DRAWN KBM	CHKD TAD	PROJECT NO. 26070
SHEET NO.		
IF-101		
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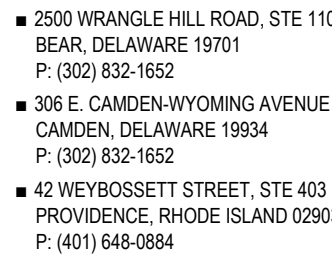
1. ALL NEW SUPPLY AIR DIFFUSERS AND RETURN AIR REGISTERS SHALL BE EQUIPPED WITH W/GR. SUPPLIED VOLUME DAMPERS.
2. FIRE DAMPERS SHALL BE PLACED IN ALL DUCT OR TRANSFER AIR PENETRATIONS OF ALL FIRE RATED PARTITIONS. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED PARTITIONS. PROVIDE LABELED ACCESS DOORS AS NEEDED. FIRE DAMPERS AND INSTALLATION ARE TO BE IN ACCORDANCE WITH CURRENT EDITION OF THE INTERNATIONAL MECHANICAL CODE.
3. DUCT SMOKE DETECTORS ARE TO BE SUPPLIED AND INSTALLED WHERE SHOWN IN ACCORDANCE WITH NFPA 72. ACCESS SHALL BE PROVIDED TO SMOKE DETECTORS FOR INSPECTION AND MAINTENANCE. ELECTRICAL CONTRACTOR SHALL MAKE APPROPRIATE AND REQUIRED ELECTRICAL CONNECTIONS TO THE DUCT SMOKE DETECTORS AS SPECIFIED AND REQUIRED FOR PROPER OPERATION. DUCT SMOKE DETECTORS SHALL DE-ENERGIZE THE AIR HANDLING UNIT, OR EXHAUST FAN, THAT THEY ARE ASSOCIATED WITH AND ALSO MAKE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL IN THE BUILDINGS FIRE PROTECTIVE SIGNALING SYSTEM AT A CONSTANTLY ATTENDED LOCATION, ANY SYSTEM THAT IS DE-ENERGIZED BY THE ALARM SHALL NOT RESTART EXCEPT BY MANUAL RESET ON THE UNIT R THROUGH THE BAC SYSTEM. SMOKE DETECTORS SHALL COMPLY WITH THE CURRENT EDITION MECHANICAL CODE IN ENTIRETY.
4. PIPES, BUS DUCTS, CABLES, WIRES, AIR DUCTS AND SIMILAR BUILDING SERVICE EQUIPMENT THAT PASS THROUGH SMOKE PARTITIONS SHALL BE PROTECTED AS STATED IN NFPA 101 CHAPTER 6-3.6. THE SPACE BETWEEN THE PENETRATING PIPE OR DUCT AND THE SMOKE BARRIER SHALL:
 - A. BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE SMOKE-RESISTANCE OF THE SMOKE BARRIER OR
 - B. BE PROTECTED BY AN APPROVED DEVICE DESIGNED FOR THE SPECIFIC PURPOSE.
- INSULATION AND COVERINGS FOR PIPES AND DUCTS SHALL NOT PASS THROUGH FIRE BARRIERS UNLESS ONE OF THESE REQUIREMENTS IS MET. CONTRACTOR IS RESPONSIBLE FOR CHOOSING WHICH ALTERNATIVE TO USE UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS OR SPECIFICATIONS.
5. INSULATE ALL NEW DUCTWORK AND EQUIPMENT, AS SPECIFIED UNLESS OTHERWISE NOTED. ALL NON-FLEXIBLE DUCTWORK SHALL BE METAL. DUCTBOARD IS PROHIBITED.
6. PROVIDE AND INSTALL ALL GAUGES AND METERS AS SHOWN AND SPECIFIED.
7. MEPS/PS OF ALL COILS SHALL ENSURE THAT THE COILS ARE CLEAN AND FREE OF ANY RESIDUE FROM THE MANUFACTURING AND SHIPPING PROCESS. IF COILS ARE FOUND TO BE DIRTY OR SMOKE WHEN HOT WATER IS PROVIDED TO THEM, THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING OF THE COILS, AS WELL AS, CLEANING THE BUILDING FROM SMOKE, COIL EMANATIONS, OR VAPORS.
8. ALL DUCTS SHALL BE CONNECTED TO AIR OUTLETS, AIR INLETS, AND AIR HANDLING DEVICES TO PROVIDE A COMPLETE DUCTWORK SYSTEM. FOR CONNECTION TO AIR OUTLETS UP TO FEET OF FLEX DUCT SHALL BE USED WHERE CONCEALED FROM OCCUPANT VIEW. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRANSITIONS TO ENSURE PROPER AND ADEQUATE CONNECTIONS OF ALL DUCTWORK TO ALL AIR INLETS, OUTLETS, AIR HANDLING DEVICES AND AIR TERMINAL DEVICES. DUCTWORK IS TO BE COORDINATED WITH TRANSFER AIR OPENINGS AND ROOF TRUSS SYSTEM, OR STRUCTURAL STEEL.
9. THE RETURN AIRFLOWS INDICATED ON THE PLANS CORRESPOND TO THE OCCUPIED MODE WITH MINIMUM OUTSIDE AIR BEING SUPPLIED. THE BALANCE RATIO IS TO INDICATE THESE AIRFLOWS IN THIS MODE OF OPERATION.
10. GRAVITY VENTILATORS, ROOF EXHAUSTERS AND ASSOCIATED DUCTWORK CONNECTIONS ARE TO BE COORDINATED WITH BUILDING STRUCTURAL COMPONENTS.
11. HVAC EQUIPMENT SHALL BE FURNISHED WITH A MOTOR STARTER SUITABLE FOR THE OFF-ON CONTROL OF THE MOTOR BY A REMOTE THERMOSTAT OR BAS CONTACT. THESE STARTERS SHALL COMPLY WITH NATIONAL ELECTRIC CODE.
12. ALL AIR HANDLING UNITS ARE TO BE INSTALLED TO PROVIDE ADEQUATE, UNOBSTRUCTED, ACCESS AND CLEARANCE FOR AIR FILTER REPLACEMENT.
13. ALL MOTORS FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR (OR A MECHANICAL SUBCONTRACTOR) SHALL BE PROTECTED AGAINST OVERLOAD IN ACCORDANCE WITH N.E.C. ARTICLE 430, SECTION C.
14. WHERE DEMOLISHING AND REMOVING UVS, REMOVE ASSOCIATED LOUVER. CONTRACTOR MUST PATCH AND PAINT TO MATCH EXISTING SURROUNDINGS.
15. VENTS AND PLUMBING VENTS SHALL BE LOCATED A MINIMUM OF 10' FROM ANY INTAKE AIR OPENING.
16. MECHANICAL EQUIPMENT AND DEVICES SHALL OPERATE WITHOUT OBJECTIONABLE NOISE AND VIBRATION BEING TRANSMITTED TO OCCUPIED PORTIONS OF THE BUILDING OR ANY PART OF THE BUILDING STRUCTURE BY APPARATUS, PIPING, DUCTWORK, CONDUCITS, OR OTHER PARTS OF THE MECHANICAL SYSTEM. SECURE AND BRACE ALL PIPING AND DUCTWORK, PROVIDE FLEXIBLE CONNECTION, VIBRATION ISOLATORS, OR OTHER DEVICES WHERE INDICATED OR REQUIRED TO PREVENT THE TRANSMISSION OF NOISE AND VIBRATION TO THE BUILDING. NC LEVEL IS 35.
17. ALL NEW CEILING MOUNTED AIR INLETS AND AIR OUTLETS ARE TO BE COORDINATED WITH LIGHTING. A NEAT, SYMMETRICAL INSTALLATION IS TO BE MAINTAINED, WITH CEILING MOUNTED AIR INLETS/OUTLETS IN PROXIMITY TO LOCATIONS SHOWN ON THE PLANS. IN THE CASE THAT THERE IS A CONFLICT, THE LOCATION OF THE LIGHTING WILL TAKE PRIORITY AND THE INLET/OUTLET SHALL BE RELOCATED AS CLOSE AS POSSIBLE. DUCTWORK SHOP DRAWINGS ARE TO SHOW PLACEMENT OF AIR INLETS/OUTLETS WITH LIGHTING OVERLaid ON THE SAME PLAN. CONTRACTORS ARE TO USE REFLECTED CEILING PLAN AS BASIS FOR COORDINATION.
18. THE CONTRACTOR SHALL PROVIDE ALL WALL AND ROOF PENETRATIONS REQUIRED FOR DUCT ROUTING. THE CONTRACTOR SHALL PATCH AND PAINT ALL PENETRATIONS LEFT BY DEMOLITION WORK AND BY CLEARANCE OPENINGS THAT REMAIN AFTER NEW DUCT INSTALLATIONS.
19. NOTIFY THE OWNER IN THE EVENT ANY EXISTING HAZARDOUS MATERIALS, SUCH AS ASBESTOS, PCB'S, LEAD, ETC., ARE DISCOVERED ON THE PROJECT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE IDENTIFICATION, TESTING, REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION, TO COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES.
20. ALL THERMOSTATS SHOWN ON HVAC PLANS ARE TO BE MOUNTED 4" 0" MAXIMUM AFF (TOP OF UNIT), UNLESS NOTED OTHERWISE. CONTRACTOR IS RESPONSIBLE FOR MOUNTING & WIRING ALL THERMOSTATS. PLENUM RATED CABLES MUST BE USED.
21. VARIABLE FREQUENCY DRIVES (VFD) SHALL BE CONSIDERED SYNONYMOUS WITH ADJUSTABLE FREQUENCY DRIVES (AFD).
22. THE CONTRACTOR SHALL PROVIDE RADIIUSED ELBOWS OR SQUARE THROAT ELBOWS WITH VANES FOR ALL DUCTWORK CHANGES IN DIRECTION. PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. SQUARE THROAT ELBOWS WITHOUT VANES AND MITERED ELBOWS ARE NOT PERMITTED.
23. ALL BLOWER COILS UNITS ARE TO HAVE 24" MINIMAL CLEARANCE ON ACCESS SIDE COORDINATE UNIT SUSPENSION WITH STRUCTURE.
24. ALL GALS TOILET ROOM DOORS ARE TO BE UNDERCUT TO PROVIDE 0.75" CLEARANCE BETWEEN BOTTOM OF DOOR AND FINISHED FLOOR.
25. HANG ALL CEILING MOUNTED UNITS HIGH TO ALLOW FOR CONDENSATE TRAPPING AND GRAVITY VENTS.
26. ALL QUANTITIES TO BE VERIFIED BY CONTRACTOR.
27. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL MATERIALS, LABOR AND ALL INCIDENTALS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY INDICATED OR NOT. ALL ERRORS, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS BY THE CONTRACTOR. THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE BY THE CONTRACTOR.
28. INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S WRITTEN INSTRUCTION.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COSTS INCURRED AS A RESULT OF SUBSTITUTIONS OR DEVIATIONS FROM THE BASIS OF DESIGN SHOWN ON THESE DRAWINGS.
30. CONTROLS ARE TO BE EXTENDED TO ALL EXISTING, REUSED MECHANICAL EQUIPMENT, INCLUDING EXISTING UNIT VENTILATORS AND EXHAUST FANS. THESE ARE TO BE TIED INTO AND CONTROLLED BY THE NEW BAS SYSTEM.
31. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRANSITIONS AND FLEXIBLE CONNECTIONS BETWEEN ALL UNITS AND SUPPLY, RETURN, OR OUTSIDE AIR DUCTS.
32. CONTRACTOR SHALL PROVIDE NEW DANFOSS OR APPROVED EQUAL VALVES FOR ALL HEAT ONLY COILS.
33. CONTRACTOR SHALL VERIFY THAT ALL EXISTING EQUIPMENT TO BE REUSED IS IN WORKING ORDER.
34. INSTALL REMOTE EMERGENCY SHUTDOWN SWITCH FOR BOILERS ADJACENT TO EACH BOILER ROOM DOOR.

	EXISTING DUCTWORK OR EQUIPMENT
	ROUND RETURN OR EXHAUST AIR DOWN
	ROUND SUPPLY AIR DOWN
	ROUND RETURN OR EXHAUST AIR UP
	ROUND SUPPLY AIR UP
	RECTANGULAR RETURN OR EXHAUST AIR DOWN
	RECTANGULAR SUPPLY AIR DOWN
	RECTANGULAR RETURN OR EXHAUST AIR UP
	RECTANGULAR SUPPLY AIR UP
	NEW FLEX DUCTWORK
	CEILING MOUNTED SUPPLY AIR DIFFUSER
	SIDE-WALL MOUNTED SUPPLY AIR DIFFUSER
	CEILING MOUNTED RETURN AIR REGISTER
	SIDE-WALL MOUNTED RETURN AIR REGISTER
	VOLUME DAMPER
	MOTOR OPERATED DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	COUNTER BALANCED BACKDRAFT DAMPER

3. INSULATE ALL PIPING AS SPECIFIED.
3. UNLESS OTHERWISE SHOWN OR SPECIFIED, ALL CONDENSATE DRAINS FROM ALL HVAC UNITS SHALL BE TRAPPED AND PIPED THROUGH THE BUILDING AND DRAINED THROUGH THE EXTERIOR WALL OF THE BUILDING AT A HEIGHT NOT TO EXCEED 18" ABOVE GRADE. PIPE SIZES SHALL MATCH SIZE OF THE CONNECTION AT A MINIMUM. UNIT DRAINS SHALL NOT BE GANGED TOGETHER UNLESS APPROVED BY ARCHITECT/ENGINEER. UNLESS OTHERWISE SHOWN OR STATED, CONDENSATE PIPING SHALL NOT BE EXPOSED.
4. ALL FLOOR PENETRATIONS SHALL BE SLEEVED AND SEALED AS SPECIFIED.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL NEW PIPING PENETRATIONS IN WALLS AND FLOORS. IT IS THE PIPING CONTRACTOR'S NOT TO SPECIFICALLY NOTE WHERE PIPING PENETRATES WALLS AND FLOORS. IT IS THE CONTRACTOR'S RESPONSIBILITY PRIOR TO BID TO STUDY THE PLANS AND IF NECESSARY EVALUATE THE SITE, TO ACCOUNT FOR ALL PIPING PENETRATIONS OF THE EXISTING STRUCTURE.
6. THE CONTRACTOR SHALL PROVIDE NEW SUPPORTS OF COMPATIBLE MATERIAL FOR ALL NEW PIPING.
7. PROVIDE NEW DUAL TEMPERATURE WATER SUPPLY AND RETURN PIPING SYSTEM, TO THE EXTENT SPECIFIED AND SHOWN ON CONTRACT DRAWINGS.
8. PROVIDE CHILLED WATER SUPPLY AND RETURN SYSTEM, DOMESTIC WATER DISTRIBUTION SYSTEM, DOMESTIC HOT WATER SUPPLY AND RETURN SYSTEM TO THE EXTENT SHOWN ON PLAN DRAWINGS AND IN DETAILS.
9. ALL CONTROL VALVES TO BE INSTALLED OVER DRAIN PANS IN HVAC UNITS.
10. ALL PIPING SHALL BE SIZED AS CALLED OUT ON DRAWINGS, AND MAY NOT BE DOWN SIZED BETWEEN CONTROL VALVE AND COIL.
11. ALL GAS PIPING IS TO BE INSTALLED PER NFPA 54, AND ALL LOCAL AND NATIONAL CODES.
12. BEFORE ANY TEST OF GAS PIPING IS FINALLY PUT IN SERVICE, IT SHALL BE TESTED TO ENSURE THAT IT IS GAS TIGHT. TO SYSTEM FOR TIGHTNESS, THE PIPING SHALL BE FILLED WITH AIR OR AN INERT GAS, BUT NOT WITH ANY OTHER GAS OR LIQUID. TESTING, INSPECTION AND PURGING OF GAS PIPING SYSTEMS SHALL COMPLY WITH NFPA 54.
13. GAS PIPING ROUTED AT GROUND LEVEL IS TO BE IN PIPING SADDLES, AND NOT TO BE IN CONTACT WITH CONCRETE OR GROUND.
14. PROVIDE REDUCERS, FITTINGS, AND CONNECTORS TO EQUIPMENT FOR A COMPLETE GAS PIPING INSTALLATION. FITTINGS, JOINTS AND CONNECTIONS SHALL BE OF AN APPROVED TYPE FOR GAS PIPING SYSTEMS.
15. ALL NEW EXPOSED PIPING IN OCCUPIED AREAS SHALL BE ENCLOSED IN CUSTOM FIN TUBE ENCLOSURES OF 14 GA. STEEL. ENCLOSURES SHALL BE BY VULCAN, SHAW-PERKINS, OR TRANE COMPANY. UNITS SHALL BE PAINTED. COLOR SHALL BE SELECTED BY ARCHITECT.
16. PROVIDE AIR VENTS AT ALL HIGH POINTS IN SYSTEM. PROVIDE DRAIN VALVES TO ALL LOW POINTS IN SYSTEM.
17. PROVIDE ISOLATION VALVES AT ALL BRANCH PIPING TAKEOFFS.
18. COORDINATE INSTALLATION OF ALL NEW PIPING WITH EXISTING FIRE PROTECTION CONDUIT, EXHAUST/RELIEF DUCT WORK, AND STRUCTURE.
19. PROVIDE SPLASH BLOCKS FOR ALL CONDENSATE DRAINS.
20. FOR CONDENSATE DRAIN PIPING RUNS LONGER THAN 50 FEET, PROVIDE A REMOVABLE PLUG AT A CHANGE OF DIRECTION EVERY 50 FT.

	HYDRONIC PIPING
	EXISTING HYDRONIC PIPING
	CONDENSATE PIPING
	SHUTOFF VALVE
	BALANCING VALVE
	CHECK VALVE
	ATC 2-WAY CONTROL VALVE
	STRAINER
	FLOW METER FITTING
	BAC TEMP SENSOR TO BE CONNECTED TO BAC SYSTEM
	AUTOLOW 3/4" FLOW LIMITING DEVICE OR APPROVED EQUAL
	CONDENSATE PUMP SYSTEM
	AIR SEPARATOR
	COMPENSATION TANK
	BASE MOUNTED PUMP
	IN-LINE PUMP
	HWSR
	DTSR
	CONDENSATE DRAIN PIPING
	CHILLED WATER SUPPLY AND RETURN

3.	ALL DEMOLISHED MECHANICAL UNITS ARE TO BE REMOVED AND TAKEN OFF SITE AND BECOME PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.		AIR HANDLING UNIT
2.	ALL DEMOLISHED DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, INSULATION, AND HANGERS ARE TO BE REMOVED AND TAKEN OFF SITE AND BECOME PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.		UNIT VENTILATOR
3.	ALL DEMOLISHED HEATING SUPPLY AND RETURN PIPING, VALVES, FITTINGS, INSULATION AND HANGERS ARE TO BE REMOVED AND TAKEN OFF SITE AND BECOME PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE. PIPING THAT IS TO BE ABANDONED IN PLACE SHALL BE CUT AND CAPPED BELOW FLOOR OR WITHIN TRENCH, AND THE OPENING SEALED WITH CONCRETE.		LOUVER
4.	PROVIDE TEMPORARY COVERS AND CAPS FOR TEMPORARILY EXPOSED EXISTING PIPING, EQUIPMENT AND WALL OPENINGS. TEMPORARY COVERS AND CAPS SHALL BE SUFFICIENT TO ENSURE DIRT, WEATHER AND CONSTRUCTION DEBRIS WILL NOT ENTER ANY SYSTEM OR WALL, ROOF OR FLOOR OPENING.		SIDE-WALL FAN
5.	REMOVAL AND DISPOSAL OF GAS PIPING AND GAS FIRED APPLIANCES SHALL BE IN CONFORMANCE WITH NFPA 54.		UNIT HEATER
6.	EXISTING GAS PIPING SHALL FIRST BE DISCONNECTED FROM ALL SOURCES OF GAS AND THEN THOROUGHLY PURGED WITH AIR, WATER, OR INERT GAS BEFORE CUTTING OR WELDING IS DONE.		CONNECTOR
7.	WHEN GAS PIPING IS OPENED, THE SECTION TO BE WORKED ON SHALL BE TURNED OFF FROM THE GAS SUPPLY AT THE NEAREST CONVENIENT POINT, AND THE LINE PRESSURE VENTED TO THE OUTDOORS, OR TO VENTILATED AREAS OF SUFFICIENT SIZE TO PREVENT ACCUMULATION OF FLAMMABLE MIXTURES. IF THIS SECTION EXCEEDS 50 FEET OF 2.5" PIPING, THE REMAINING GAS PIPING SHALL BE DISPLACED WITH AN INERT GAS.		FIN TUBE
8.	SEE ELECTRICAL PLANS FOR INFORMATION ON WIRING TERMINATION OF DEMO EQUIPMENT.		PUMP
9.	REFER TO ARCHITECTURAL DRAWINGS FOR CEILING DEMOLITION PLAN.		CABINET UNIT HEATER
10.	PATCHING AND PAINTING AT UNIT VENTILATOR, FIN TUBE, UNIT HEATER, AND THERMOSTAT LOCATIONS BY GENERAL TRADES. SEE ARCHITECTURAL DRAWINGS FOR FINISH SCHEDULE.		CHILLER
11.	THE CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL ROOFTOP AND WALL OPENINGS CREATED BY DEMOLITION SUITABLE FOR WITHSTANDING WEATHER CONDITIONS.		BOILER
12.	THE CONTRACTOR SHALL PROVIDE FLOOR PROTECTION IN THE GYMNASIUM. ANY DAMAGE TO THE GYMNASIUM FLOOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND REPAIR COSTS SHALL BE BACK CHARGED TO THE CONTRACTOR.		GRAVITY VENT
13.	ALL ASBESTOS CONTAINING MATERIALS WILL BE REMOVED BY OTHERS PRIOR TO DEMOLITION.		DUCTWORK
14.	THE INFORMATION SHOWN ON THESE DRAWINGS WAS COMPILED FROM EXISTING DRAWINGS AND SITE VISITS. HOWEVER, THE INFORMATION MAY STILL VARY FROM THE ACTUAL INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION FOR DEMOLITION WORK.		RE-HEAT COIL
			HYDRONIC SUPPLY AND RETURN PIPING
			PIPING ELBOW DOWN
			PIPING ELBOW UP
			DEMOLISH MECHANICAL EQUIPMENT IN HATCHED AREA, INCLUDING ALL RELATED PIPING, INSULATION, VALVES, FITTINGS, DUCTWORK, INSULATION, HANGERS, SUPPORTS, HARDWARE, DEVICES AND INSULATION, ENCLOSURES, MOUNTS, AND WALL LOUVERS UNLESS OTHERWISE NOTED.



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PROJECT

[illegible]

SHEET TITLE

ISSUE

8-19-2028

DRAWN	CHK'D	PROJECT NO.
KW	BZ	26070

SHEET NO.

M-000

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3/19/2026 8:43 AM

1 OFFICE MECHANICAL PLAN - NEW WORK
M-102 SCALE: 1/2" = 1'-0" north

2 OFFICE MECHANICAL PLAN - DEMOLITION
M-102 SCALE: 1/2" = 1'-0" north

NOTE: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A COMPLETE, WORKING VARIABLE REFRIGERANT FLOW (VRF) SYSTEM. ALL PIPE LENGTHS SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED WITH THE MANUFACTURER PRIOR TO INSTALL. SAMSUNG IS USED AS THE BASIS OF DESIGN (SEE SPECIFICATIONS FOR APPROVED ALTERNATE MANUFACTURERS), ANY COST AND COORDINATION ASSOCIATED WITH DEVIATION FROM BASIS OF DESIGN, INCLUDING - BUT NOT LIMITED TO - HEAT RECOVERY UNITS TYPES AND QUANTITIES, REFRIGERANT PIPING LAYOUTS AND SIZES, ELECTRICAL REQUIREMENTS, AND INDOOR AND OUTDOOR UNITS - SHALL BE BORNE SOLELY BY THE CONTRACTOR.

MECHANICAL PIPING KEYNOTES:

CP-1 CONDENSATE DISCHARGE TO EXIT BUILDING AT 18' ABOVE GRADE TO SPLASHBLOCK. SEE ARCHITECTURAL PLANS FOR WALL PENETRATION TYPE

MECHANICAL PIPING GENERAL NOTES:

1. ALL CONDENSATE PIPING CONCEALED ABOVE INACCESSIBLE CEILINGS, BEHIND WALLS, OR EXTERIOR TO BUILDING SHALL BE PROVIDED AS COPPER. ALL CONDENSATE PIPING SHALL BE INSULATED.
2. CLEANOUTS SHALL BE PROVIDED IN CONDENSATE PIPING AT EACH CHANGE OF DIRECTION AND AT 50' INTERVALS
3. ALL CONDENSATE PIPING SHALL SLOPE A MINIMUM OF 1/8" / 1'-0".

WALL MOUNTED DUCTLESS SPLIT SYSTEM SCHEDULE										
UNIT NUMBER (INDOOR/OUTDOOR)	OUTDOOR UNIT					INDOOR UNIT				REMARKS
	MANUFACTURER	MODEL NO.	ELEC	MCA	MOCP	MODEL #	AIRFLOW (CFM)	COOLING CAP (BTU/H)	HEATING CAP (BTU/H)	
WSS-1HP-1	SAMSUNG	AR09DXDABWKNVC	208/160	12	20	AR09DXDABWKNVC	300	9000	11000	WITH WALL BRACKET, WIND BAFFLES, AND HALO GUARD KIT
NOTES: PROVIDE EQUIPMENT AS SCHEDULED OR APPROVED EQUAL. ALL UNITS SHALL HAVE EC MOTOR WITH FAN SPEED CONTROLLER. ALL UNITS TO BE FURNISHED WITH ASPEN MINI WHITE CONDENSATE PUMP. PROVIDE CENTRAL FAN CONTROLLER FIELD-LOCATED IN COORDINATION WITH OWNER AND PROVIDE BACNET GATEWAY FOR POTENTIAL CONNECTION TO EXISTING BAS BY OTHERS. PROVIDE 7-DAY, 24-HR PROGRAMMABLE THERMOSTAT FOR EACH UNIT WITH LCD DISPLAY. FURNISH FAN MOTOR WITH MANUFACTURER'S WALL MOUNT KIT. THE INDOOR UNIT SHALL BE POWERED BY THE OUTDOOR UNIT DRAWINGS.										

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PROJECT

REVISIONS

[illegible]

SHEET TITLE

MECHANICAL OFFICE PLAN

ISSUE

FOR
CONSTRUCTION

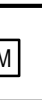
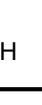
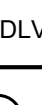
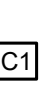
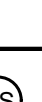
8-19-2028

DRAWN	CHK'D	PROJECT NO.
KW	BZ	26070

SHEET NO.

M-102

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Power Devices	
	GENERAL PURPOSE RECESSED SINGLE RECEPTACLE - 20AMP, 125VOLTS, NEMA5-20R, TAMPER RESISTANT. ELECTRICAL BOX TO BE 2-1/8" DEEP.
	GENERAL PURPOSE DUPLEX RECEPTACLE - 20AMP, 125VOLTS, NEMA5-20R, TAMPER RESISTANT. ELECTRICAL BOX TO BE 2-1/8" DEEP.
	GENERAL PURPOSE DUPLEX/QUADRUPLEX RECEPTACLE - 20AMP, 125VOLTS, NEMA5-20R, TAMPER RESISTANT. ELECTRICAL BOX TO BE 2-1/8" DEEP (MIN.).
	GENERAL PURPOSE GFCI RECEPTACLE (DUPLEX OR QUADRUPLEX) - 20AMP, 125VOLTS, NEMA5-20R, TAMPER RESISTANT. ELECTRICAL BOX TO BE 2-1/8" DEEP.
	GENERAL PURPOSE GFCI RECEPTACLE - 20AMP, 125VOLTS, NEMA5-20R, TAMPER RESISTANT. ELECTRICAL BOX TO BE 2-1/8" DEEP. OUTLETS INSTALLED OUTDOORS OR ON ROOF SHALL HAVE DIECAST ALUMINUM BOX X 1-1/8" DEEP, AND WHILE IN USE WEATHERPROOF COVER. THOMAS&BETTS CMXIV OR APPROVED EQUAL.
	SPLIT CIRCUIT OCCUPANCY SENSOR CONTROLLED GENERAL PURPOSE (DUPLEX OR QUADRUPLEX) RECEPTACLE. 20AMP, 125VOLTS, NEMA5-20R, TAMPER RESISTANT. ELECTRICAL BOX TO BE 2-1/8" DEEP. RECEPTACLE SHALL HAVE (1) PERMANENTLY MARKED, CONTROLLED FACE PER DUPLEX HUBBELL / BR20C1XXX OR APPROVED EQUAL. SEE OCCUPANCY CONTROLLED RECEPTACLE DETAIL ON SHEET E-600.
	GENERAL PURPOSE SINGLE SPECIALTY RECEPTACLE
	JUNCTION BOX
	FRACTIONAL HORSEPOWER MOTOR STARTER WITH OVERLOAD IN NEMA 1 ENCLOSURE, SQ/D FG2P OR APPROVED EQUAL FOR INDUORS. FWP FOR OUTDOORS WITH NEMA 4 ENCLOSURE
	FUSED SWITCH CONTROL SWITCH HEAVY DUTY. 3POLE WITH FUSIBLE SLOTS SUITABLE FOR CLASS "R" FUSES, NEMA1 UNLESS NOTED. WP-WEATHER PROOF-NEMA3R ENCLOSURE. (NOMENCLATURE: 30A/20A + SWITCH SIZE/FUSE SIZE), SQ D CLASS 3110 OR EQUAL. DO NOT INSTALL ON TOP OF EQUIPMENT LABELS OR NAMEPLATES.
	COMBINATION MAGNETIC STARTER, FUSIBLE DISCONNECT SWITCH TYPE, 3POLE, FULL VOLTAGE NON REVERSIBLE TYPE WITH FUSIBLE CONTROL TRANSFORMER, BI-METALLIC OVERLOAD RELAYS, ON/OFF PUSH BUTTONS OR HAND-OP. AUTO SELECTOR SWITCH, (1/60-0)1/60 C., AUXILIARY CONTACTS AND LED PILOT LIGHT, CLASS "R" FUSE CLIPS, NEMA1 ENCLOSURE UNLESS NOTED. SQ/D CLASS 8538 OR EQUAL. NEMA 1- SIZE 1
	WALL SWITCH (HORSEPOWER RATED) - 20A, 120/277V, SINGLE POLE, HEAVY DUTY, TOGGLE TYPE
Lighting Controls	
	WALL SWITCH - 20A, 120/277V, SINGLE POLE, HEAVY DUTY, TOGGLE TYPE
	WALL SWITCH (3-WAY) - 20A, 120/277V, SINGLE POLE, HEAVY DUTY, TOGGLE TYPE
	WALL SWITCH (4-WAY) - 20A, 120/277V, SINGLE POLE, HEAVY DUTY, TOGGLE TYPE
	LOW VOLTAGE DIMMING SWITCH WITH ON, OFF, RAISE, AND LOWER BUTTONS. SENSORWORK / SWD-804 OR APPROVED EQUAL. PROVIDE LOW VOLTAGE WIRE IN 3/4" TO ROOM LIGHTING CONTROLLER. COLOR TO BE SELECTED BY ARCHITECT.
	MOTION SENSOR, GELING MOUNTED, 2000 SFT - SENSORWORK / SWD-2-2-2-1 OR APPROVED EQUAL. PROVIDE LOW VOLTAGE WIRING TO ROOM LIGHTING CONTROLLER (RLC1). (RLC2, WHERE "0" IS SHOWN, ROOM SHALL BE OCCUPANCY CONTROLLED, OTHERWISE ROOM SHALL BE VACANCY CONTROLLED).
	ROOM LIGHTING CONTROLLER (WITH SCHEDULING / TIME/CLOCK CAPABILITIES AND A DIMMING OUTPUT); SENSORWORK / SWD-801 OR APPROVED EQUAL. PROVIDE LOW VOLTAGE WIRING IN 3/4" AS REQUIRED TO CONNECT TO LIGHTING CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO SWITCHES, MOTION SENSORS, AND DAYLIGHT SENSORS. CONTROLLER SHALL AUTOMATICALLY DIM LIGHT FIXTURES IN EACH "DAYLIGHT ZONE" IN RESPONSE TO INPUT FROM THE DAYLIGHT SENSORS; (WHERE APPLICABLE). ADDITIONALLY, THE CONTROLLER SHALL DIM ALL LIGHT FIXTURES IN RESPONSE TO THE DIMMING WALL SWITCHES).
	ROOM LIGHTING CONTROLLER (WITH A DIMMING OUTPUT); SENSORWORK / SWD-800-D1 OR APPROVED EQUAL. PROVIDE LOW VOLTAGE WIRING IN 3/4" AS REQUIRED TO CONNECT TO LIGHTING CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO SWITCHES, MOTION SENSORS, AND DAYLIGHT SENSORS. CONTROLLER SHALL AUTOMATICALLY DIM LIGHT FIXTURES IN THE "DAYLIGHT ZONE" IN RESPONSE TO INPUT FROM THE DAYLIGHT SENSOR (WHERE APPLICABLE). ADDITIONALLY, THE CONTROLLER SHALL DIM ALL LIGHT FIXTURES IN RESPONSE TO THE DIMMING WALL SWITCHES).
	DAYLIGHT SENSOR, SENSORWORK / SWD-250 OR APPROVED EQUAL. PROVIDE LOW VOLTAGE WIRING TO CONNECT TO ROOM LIGHTING CONTROLLER
Fire Alarm Devices	
	FIRE ALARM CONTROL PANEL
	FIELD CONFIGURABLE NOTIFICATION DEVICE (AUDIO/VISUAL) - HORN WITH STROBE AS SINGLE ASSEMBLY, REQUIRED CANDELA/RATING "X" INDICATED "X" OF
Communication Devices	
	TELECOMMUNICATION OUTLET - DATA WIRING DEVICE WITH RJ45, CAT5 JACKS. PROVIDE 4-PAIR, CAT-6 CABLE BETWEEN EACH JACK AND IDF. (TR) RACK WITH ADEQUATE SLACK FOR 10' MIN. TERMINATION TO NETWORK OR TELEPHONE PATCH PANEL. NUMBER INSCRIBED IN TRIANGLE SHOWS NUMBER OF JACKDROPS AT THAT OUTLET LOCATION. ELECTRICAL BOX TO BE 2-1/8" DEEP.
	PUBLIC ADDRESS SPEAKER - WALL MOUNTED
	COAXIAL CABLE - WALL PLATE WITH FEMALE CONNECTOR
	CLOCK
	TYPE C1 DATA INFORMATION OUTLET w/ one DATA FOR WIRELESS ACCESS POINT CONNECTION
	WIRELESS ACCESS POINT (WAP)

PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, ADDITIONAL DESIGN AND ALL INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM AS DETAILED ON PLANS TO THE SATISFACTION OF THE ENGINEER AND THE OWNER. COORDINATE ALL WORK WITH THE ENGINEER BEFORE THE START OF WORK.

2. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL MATERIAL, LABOR, AND ALL EQUIPMENT AND COSTS FOR INSTALLATION WHETHER SPECIFICALLY INDICATED OR NOT. ALL ERRORS, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS BY THE CONTRACTOR. THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE VISIT BY THE CONTRACTOR.

3. PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGULATIONS, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

4. MATERIAL AND EQUIPMENT SHALL BE NEW (UNLESS NOTED), UL, NEMA, ANSI, IEEE, ADA & CMB APPROVED FOR INTENDED PURPOSE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND LOCAL ELECTRICAL CODES.

5. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS, AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.

6. MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE COMPLETE AND CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUESTS FOR PAYMENT ARE SUBMITTED.

7. GUARANTEE WORK IN WRITING PER SPECIFICATIONS, REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO ADDITIONAL COST TO OWNER. GUARANTEE PERIOD FOR CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER. SUBMIT GUARANTEE TO OWNER BEFORE FINAL PAYMENT.

8. COORDINATE ALL ELECTRICAL ITEMS WITH EXISTING FIELD CONDITIONS. LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE MINOR ADJUSTMENT IN THE FIELD TO SATISFY THE DESIGN INTENT.

9. DAMAGE TO EXISTING FACILITIES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

10. THE LOCATIONS ON THESE PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH ALL OTHER TRADES AND RELOCATION OF EXISTING CONDITIONS. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW ALL REQUIRED OFFSETS AND DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING ASSOCIATED EQUIPMENT AND CONDITIONS. COORDINATE THE LOCATION OF ALL EQUIPMENT WITH THE ENGINEER AND THE OWNER. COORDINATE WITH THE OWNER OR CONTRACTOR OBTAINING ALL OTHER TRADES' DRAWINGS AND SPECIFICATIONS AND COORDINATING WITH ALL OTHER TRADES DURING BIDDING AND CONSTRUCTION. THE CONTRACTOR IS TO INCLUDE CIRCUIT LENGTHS OF WIRE AND CONDUIT REQUIRED TO INSTALL CONNECTED DEVICES AND EQUIPMENT SUCH AS PANELBOARDS, SWITCHBOARDS, TRANSFORMERS, ETC. WITHIN 15 FEET OF THE LOCATION SHOWN.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUITY OF ALL POWER, CONTROL, FIRE ALARM, SECURITY SYSTEMS, AND COMMUNICATIONS FUNCTIONS TO ALL AREAS AFFECTED BY DEMOLITION AND/OR NEW INSTALLATION.

12. REPAIR AND PATCH ANY DISTURBED AREAS TO MATCH ADJACENT CONSTRUCTION.

13. DISCONNECT AND MAKE SAFE ANY EQUIPMENT TO BE REMOVED BY OTHERS. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION.

14. IN ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADE'S WORK, THIS CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY OR ALL ELECTRICAL ITEMS IN PATH OF WORK, REINSTALLING, AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADE'S WORK IN THAT AREA.

15. PRIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL FIELD VERIFY ALL BRANCH CIRCUITS AND MAINTAIN THOSE CIRCUITS THAT EXTEND OUTSIDE THE SCOPE OF WORK.

16. AFTER RENOVATING EXISTING ELECTRICAL WORK, THE CONTRACTOR SHALL ENSURE THAT ALL REMAINING AND NEW EQUIPMENT WILL OPERATE PROPERLY, INCLUDING BUT NOT LIMITED TO BACKFEEDING OF EXISTING POWER AND LIGHTING CIRCUITS. REFER TO SINGLE LINE DIAGRAM.

17. ALL ELECTRICAL WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED TO PREVENT ANY DAMAGE.

18. WHERE ELECTRICAL SYSTEMS PASS THROUGH RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, SYSTEMS SHALL BE SUITABLY PROTECTED TO PREVENT DAMAGE OR RELOCATION AND THE SYSTEMS RESTORED TO NORMAL OPERATION. WHERE SYSTEMS IN SYSTEMS SHALL BE COORDINATED WITH OWNER. RESTORE POWER TO EXISTING TO REMAIN EQUIPMENT IF INTERRUPTED BY DEMOLISHED CIRCUITS IN THE AREA.

19. CONTRACTOR SHALL SUBMIT FOR REVIEW, SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS USED ON THE PROJECT. SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER BEFORE PURCHASE OF MATERIALS.

20. ALL WIRING SHALL BE COPPER, BOND, 75/90° RATED WITH FLAME-RETARDANT, HEAT AND MOISTURE RESISTANT INSULATION. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, COPPER NEUTRAL BARS, AND COPPER GROUND BARS. ALL NEW TRANSFORMERS SHALL HAVE COPPER WINDINGS.

21. PERMANENTLY LABEL ALL NEW ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, DEVICE DESIGNATION AND SUPPLY CIRCUIT DESIGNATION. UPDATE OR REPLACE PANEL DIRECTORIES TO INCLUDE NEW CIRCUIT INFORMATION RESULTING FROM THIS PROJECT.

22. PROVIDE TEMPORARY POWER AND LIGHTING FOR ALL TRADES AS REQUIRED TO COMPLETE THE PROJECT. ALL TEMPORARY AND INTERIM EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO NFPA 110 AND NFPA 70.

23. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION THAT IS NOT SHOWN ON THE DRAWINGS.

24. OPENINGS IN EXISTING CONCRETE AND MASONRY WALLS AND FLOORS REQUIRED FOR CONDUIT INSTALLATION SHALL BE CORE DRILLED. MAXIMUM CORE DRILL SIZE SHALL BE 1/2" IN DIAMETER. CORE DRILL LOCATIONS SHALL BE SPACED A MINIMUM OF 6" FROM EACH OTHER MEASURED FROM THE OUTSIDE EDGE OF THE CORE DRILL. ALL CORE DRILL OPENINGS SHALL BE PROPERLY SEALED ACCORDING TO THEIR LOCATION AND APPLICATION.

25. ALL OUTGAGES SHALL BE KEPT TO A MINIMUM. ALL WORK THAT REQUIRES A SUSTAINED EQUIPMENT OUTGAGE SHALL BE COMPLETED PRIOR TO THE START OF THE LOCK OUT/UNTIL WORK IS COMPLETED UNLESS NOTED OTHERWISE. COORDINATE OUTGAGES WITH OWNER REPRESENTATIVE.

26. PROVIDE FOR EACH BRANCH CIRCUIT AND FEEDER CIRCUIT A DEDICATED EQUIPMENT GROUND WIRE. FOR SINGLE PHASE BRANCH CIRCUITS OF 120 V/1PH OR 277V/1PH, PROVIDE DEDICATED HOT, DEDICATED NEUTRAL AND DEDICATED EQUIPMENT GROUND WIRE. SHARING OF NEUTRAL OR EQUIPMENT GROUND WIRE(S) IS NOT PERMITTED. WIRING TO ALL HVAC EQUIPMENT OR OTHER TRADE EQUIPMENT SHALL BE IN CONDUIT. ALL EQUIPMENT AND FEEDER WIRING IN MECHANICAL, ROOM ELECTRICAL, ROOM AIR HANDLING, OR REFRIG. COND. SHALL BE IN RIGID CONDUIT. ALL FEEDER CIRCUIT WIRING SHALL BE IN RIGID CONDUIT OR CONCEALED IN WALL. WIRING TO OUTLETS ON CONDUIT SHALL BE PROVIDED IN EITHER EMT CONDUIT OR FLEXIBLE METAL CONDUIT. DO NOT USE PLASTIC TAPS TO SUPPORT CONDUITS AND CABLES. MC CABLES SHALL BE SUPPORTED AT MAXIMUM OF 6'-0" WITH SECURIT FASTENED MC CABLE SUPPORT CLAMPS, J-HOOKS, OR METAL CABLE BRACKETS.

27. PROVIDE IDENTIFICATION LABELS FOR ALL BRANCH CIRCUITS AND FEEDERS CIRCUITS AT JUNCTION BOXES, PANELBOARDS, TROUGHS, AND SPLIT BOXES.

28. PROVIDE UNSUPPLIED FEEDERS FROM PANELBOARD OR SWITCHBOARD TO ALL EQUIPMENT, INCLUDING ALL 20 AMPERE, SINGLE POLE BRANCH CIRCUIT WIRING.

29. ALL WIRING DEVICES ARE TO BE RECESSED WHERE POSSIBLE, WHERE RECESSING IS NOT POSSIBLE, WIRING DEVICES ARE TO BE SURFACE MOUNTED WITH CIRCUIT WIRING ROUTED IN SURFACE MOUNTED CONDUIT PER SPECIFICATIONS.

30. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AT #114-344 (FROM EACH VENDOR) SUPPLY DUCT SMOKE DETECTOR TO FACILITATE TESTING OF DETECTION MECHANISM. CONTRACTOR, ELECTRICIAN, OR CONTRACTOR SHALL PROVIDE THE NECESSARY ELECTRICAL TERMINATIONS, WHICH BLOWER COIL (BC) AND EACH ENERGY RECOVERY VENTILATOR (ERV) WILL HAVE (1) SUPPLY DUCT SMOKE DETECTOR AND (1) RETURN DUCT SMOKE DETECTOR.

31. VFD CABLE SHALL BE TYPE MC-B, (0HHW2), 3/C VFD CABLE SHALL BE RATED FOR 800 VAC WITH 2000 VOLT INSULATION WITHSTAND AND UL LISTED AS TYPE MC-B, CABLE PER UL2256(E38916). VFD CABLES SHALL HAVE UNCOATED SOT COPPER STRANDS CONDUCTORS RATED FOR 90 DEG CENTIGRADE WET OR DRY. CROSS LINK POLYETHYLENE HIGH DIELECTRIC STRENGTH INSULATION. CONDUIT, MAN, AND THREE BARS. SOFT STRANDED GROUND CONDUCTORS WITH NON-HYDROSCOPIC FILLER AND BINDER TAP. SHEATH SHALL BE CLOSING TIGHT, IMPERVIOUS, CONTINUOUS WELDED CORRUGATED ALUMINUM CL-X-PER 1509. SHEATH SHALL BE PROTECTED WITH LOW TEMPERATURE BLACK PVC JACKET. CONTRACTOR SHALL PROVIDE PROTECTIVE SHEATH FOR INSTALLATION OF VFD CABLE. VFD CABLE SHELD TO BE GROUNDED WITH SHIELD TERMINATION KIT, SOUTHWIRE SPEC 4541 OR APPROVED ALTERN AT BOTH VFD END AND AT MOTOR END.

32. ALL CONDUIT PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PATCHED AND SEALED WITH FIRE RATED FOAM SEALANT.

33. PROVIDE INSULATED BUSHINGS ON CONDUIT THREADS OR CONNECTORS WHERE RACEWAYS WITH CONDUITS OR MC CABLES ENTER A BOX OR ENCLOSURE. THIS BUSHING SHALL BE INSTALLED ON ALL CABLES AND CONDUITS.

34. PROVIDE FIRE ALARM RATED MC CABLE FOR CONNECTIONS BETWEEN FIRE ALARM DEVICES. MC CABLE SHALL RUN CONCEALED ABOVE CEILINGS AND IN DRYWALL, WHERE EXPOSED, PROVIDE EMT. NO EXPOSED MC CABLE IS PERMITTED.

35. CONTRACTOR TO PROVIDE A COORDINATION STUDY WHENEVER ANY FEEDER CIRCUITS ARE ADDED TO OR REMOVED FROM THE MAIN DISTRIBUTION / PANELBOARD OF A BUILDING. ADDITIONALLY, PROVIDE A COORDINATION STUDY WHENEVER A NEW ADDITION OR RENOVATED OR ADJACENT CONTRACTOR TO ADJUST THE TRIP OF THE MAIN CIRCUIT BREAKER AND/OR THE GENERATOR BREAKER ACCORDINGLY.

1. ALL LOW VOLTAGE CABLING MUST BE INSTALLED ACCORDING TO BICSI GUIDELINES.
2. ALL CABLING SHALL CONFORM TO THE LATEST EDITION OF THE EIA/TIA STANDARDS.
3. ALL CABLING SHALL BE APPROPRIATELY LABELED.
4. CONTRACTOR SHALL NOT INSTALL ANY EQUIPMENT PRIOR TO ITS APPROVAL BY THE ARCHITECT AND ENGINEER. CONTRACTOR WILL BE LIABLE FOR ITS REMOVAL IN ANY SUCH CASE.
5. PROVIDE A COMPLETE GROUNDING SYSTEM FOR ALL LOW VOLTAGE SYSTEMS AS SHOWN.
6. CONTRACTOR TO PROVIDE PATHWAYS FOR LOW VOLTAGE SYSTEMS. PATHWAYS SHALL CONSIST OF IN-WALL CONDUIT, SURFACE MOUNTED SPLIT CHANNEL METALLIC RACEWAY, BACK BOXES, SLEEVES, CHASES, CABLE TRAY AND J-HOOKS. ANY PENETRATION OF A FIRE-RATED BARRIER MUST BE FIRE-STOPPED IN ACCORDANCE WITH LOCAL AND STATE LAWS AND THE AUTHORITY HAVING JURISDICTION.
7. PRIOR TO BEGINNING ANY WORK, SECURE NECESSARY PERMITS OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED TRADESMEN WHO ARE LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
8. CONDUITS SHALL BE RUN BEHIND FINISHED SURFACES WHERE POSSIBLE UNLESS OTHERWISE NOTED.
9. THE TELECOMMUNICATION PLANS ARE DIAGRAMMATIC ONLY. COORDINATE TECHNOLOGY EQUIPMENT LOCATION AND INSTALLATION WITH EQUIPMENT BEING SERVED.
10. CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO COMPLETION OF CONSTRUCTION TO ALLOW SUFFICIENT TIME FOR COORDINATION OF EXISTING BUILDING ACTIVITIES WITH THE CONSTRUCTION WORK.
11. THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS), IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, INDICATED AND/OR SPECIFIED.
12. BEFORE SUBMITTING BIDS, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL ADJOINING EXISTING BUILDINGS, EQUIPMENT AND SPACE CONDITIONS ON WHICH HIS/HER WORK IS ANY WAY DEPENDENT FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. HE/SHE SHALL REPORT TO THE ARCHITECT/ENGINEER ANY CONDITION WHICH MIGHT PREVENT HIGHER FROM INSTALLING HIS/HER EQUIPMENT IN THE MANNER SPECIFIED TEN DAYS PRIOR TO SUBMISSION OF BIDS.
13. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED OR WORK TO BE PERFORMED.
14. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCOVERED CONFLICTS BETWEEN EXISTING AND PROPOSED EQUIPMENT AREAS NOT SCHEDULED FOR DEMOLITION AND THE NEW WORK INDICATED WITHIN THE CONTRACT DOCUMENTS. SUCH NOTIFICATION SHALL BE ACCOMPANIED BY A DRAWING DELINEATING THE PROPOSED SOLUTION PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA.
15. THE EXACT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL SYSTEMS. PROVIDE ALL WIRES AND CABLES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON PLAN OR NOT.
16. REFER TO ARCHITECTURAL DRAWINGS FOR THE FINISH. EXACT LOCATION, ELEVATION, MOUNTING HEIGHTS AND DETAILS OF ALL LIGHT FIXTURES AND DEVICES WITHIN THE CEILING GRID FOR COORDINATION WITH TECHNOLOGY EQUIPMENT. REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
17. WHEREVER CONDUITS PENETRATE WALLS OR FLOORS, SPACE REMAINING IN SUCH PENETRATIONS SHALL BE FILLED. FILLING MATERIAL SHALL BE FIRE RESISTIVE WITH RATING EQUAL TO THE RATING OF THE FLOOR OR WALL ITSELF.
18. PROVIDE AND LEAVE ACCESSIBLE PLUG STRINGS IN ALL CONDUITS, RACEWAYS, SLEEVES AND CHASES TO LOW VOLTAGE WIRING TO BE INSTALLED.
19. OUTLET BOXES INSTALLED ON OPPOSITE SIDES OF THE SAME PARTITION SHALL BE STAGGERED. DO NOT MOUNT OUTLET BOXES BACK TO BACK.
20. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, CUT SHEETS, CALCULATIONS AND EQUIPMENT LITERATURE FOR ALL EQUIPMENT BEING PROVIDED AS PART OF THIS SCOPING OF WORK. THE EXACT DEVICE OR PIECE OF EQUIPMENT TO BE INSTALLED MUST BE CLEARLY CALLED OUT FOR THE DESIGN TEAM TO REVIEW.
21. CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT DRAWINGS FOR REVIEW AND APPROVAL BY THE DESIGN TEAM PRIOR TO JOB COMPLETION.
22. CONTRACTOR SHALL PROVIDE A COMPLETE PUNCH LIST OF ALL INSTALLED SYSTEMS TO THE CONSTRUCTION MANAGER WHEN THE INSTALLED WORK IS READY TO BE EXAMINED BY THE DESIGN TEAM. INCOMPLETE SYSTEMS SHALL NOT BE REVIEWED UNTIL IT IS DETERMINED THAT THE SYSTEMS ARE APPROXIMATELY COMPLETE.
23. ALL TELECOMMUNICATIONS CABLING SHALL BE PLENUM RATED CAT6, 4 PAIRS, UNSHIELDED TWISTED PAIR CABLE, HUBBELL CAT NO GR9PP OR EQUIV. ROUTED BETWEEN TELEDATA ROOM AND EACH VOICE AND/OR DATA JACK. THE USE OF J-HOOKS IS PERMITTED IN AREAS WITH A SUSPENDED CEILING WHERE ADEQUATE CLEARANCE CAN BE OBTAINED. ALL WIRING IN SPACES WITHOUT CEILINGS OR AREAS WITH INADEQUATE SPACE UNDER THE CEILING SHALL BE RUN IN EMT. PROVIDE TERMINATIONS AT BOTH PATCH PANEL AND OUTLET. PROVIDE CAT6 PATCH CORDS (36" L) FOR CONNECTION OF PATCH PANEL TO FUTURE ETHERNET SWITCH. CONTRACTOR SHALL TERMINATE ALL PATCH PANELS. PROVIDE ADDITIONAL CAT6 RJ45 PORT PATCH PANELS IN MDF OR DP, AS APPLICABLE, AS REQUIRED TO SUPPORT ADDITIONAL DATA CONNECTIONS IN MDF/D. DATA PATCH PANELS SHALL BE HUBBELL MN HP648 OR APPROVED EQUIV..
24. ALL CABLING SHALL BE RUN CONCEALED WITHIN WALLS AND ABOVE CEILINGS WHERE APPLICABLE.
25. CABLE AND JACKS SHALL BE OF TYPE AND COLOR SHOWN:

GRAPHIC CONVENTIONS	
Wiring Devices HOMERUN PANEL DESIGNATION → PLA-11 ← BRANCH CIRCUIT DESIGNATION OUTLETS TO BE MOUNTED AT STANDARD HEIGHT UNLESS OTHERWISE NOTED	Disconnects HOMERUN PANEL DESIGNATION → J 30A, WP 20A, RK1 ← BRANCH CIRCUIT DESIGNATION DISCONNECT SIZE WP WEATHER PROOF FUSE SIZE, TYPE RK1
Lighting Fixtures TYPE: A LUMINAIRE TYPE - SEE LIGHT FIXTURE SCHEDULE CONTROL DEVICE IDENTIFICATION BRANCH CIRCUIT NUMBER PANEL DESIGNATION	Lighting Switches HOMERUN PANEL DESIGNATION → S a D ← BRANCH CIRCUIT DESIGNATION CONTROL DEVICE IDENTIFICATION DEVICE TYPE DESIGNATION

(D) - DENOTES EQUIPMENT OR WIRING TO BE DEMOLISHED	KVA - KILO VOLT AMPERE
(E) - DENOTES EXISTING EQUIPMENT OR WIRING TO REMAIN	LG - LOG CORPORATION
(N) - DENOTES NEW EQUIPMENT OR WIRING	LI - LONG TIME + INSTANTANEOUS
	LSI - LONG TIME + SHORT TIME + INSTANTANEOUS
A - AMPS	MOS - MAIN CIRCUIT BREAKER
AF - AMPERE FRAME	MDP - MAIN DISTRIBUTION PANEL
AFF - ABOVE FINISHED FLOOR	MTS - MANUAL TRANSFER SWITCH
AT - AMPERE TOP	MVASC - MEGA VOLT AMPERE SHORT CIRCUIT
ATS - AUTOMATIC TRANSFER SWITCH	OC - ON CENTER
BLDG - BUILDING	PH - PHASE
C - CONDUIT	QO - QWIK OPEN PROTECTION
CB - CIRCUIT BREAKER	SPD - SURGE PROTECTIVE DEVICE
ENCL - ENCLOSURE	SW - SWITCH
FA - FIRE ALARM	SWBD - SWITCHBOARD
G - GROUND	UG - UNDERGROUND
GE - GENERAL ELECTRIC	V - VOLTS
GEPF - GROUND FAULT EQUIPMENT PROTECTOR	W - WATTS OR WIRE
KA - KILO AMPERE	Z - IMPEDANCE
KV - KILO VOLT	

LIGHTING FIXTURE SCHEDULE						
TYPE	LAMPS	VOLTAGE	MOUNT	FIXTURE DESCRIPTION	MANUFACTURER/CATALOG NUMBER	REMARKS
A	LED 4800 LUMENS	120/277	RECESSED	2X2 LED FLAT PANEL - L70 @ 100,000 HOURS, 10 YEAR WARRANTY	MAXLITE / MLFP-22-16W-CS-CR OR APPROVED EQUIV.	PROVIDE WITH MOUNTING HARDWARE FIELD SELECT 32W AND 4000K
B	LED 4785 LUMENS	120/277	RECESSED	2X4 LED FLAT PANEL - L70 @ 100,000 HOURS, 10 YEAR WARRANTY	MAXLITE / MLFP-24-20W-CS-CR OR APPROVED EQUIV.	PROVIDE WITH MOUNTING HARDWARE FIELD SELECT 33W AND 4000K

 STUDIO JAED Website: www.StudioJAED.com Email: info@StudioJAED.com		
ARCHITECT STUDIOJAED ■ 2500 WRANGLE HILL ROAD, STE 110 BIRMINGHAM, ALABAMA 35202 P: (205) 832-1652 ■ 306 E. CAMDEN-WYOMING AVENUE CAMDEN, DELAWARE 19834 P: (302) 832-1652 ■ 42 WEYBOSSETT STREET, STE 403 PROVIDENCE, RHODE ISLAND 02903 P: (401) 646-6884		
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ARCHITECT / ENGINEER SEAL		
PROJECT PROVIDENCE PUBLIC SCHOOL DEPARTMENT LILLIAN FEINSTEIN ELEMENTARY SCHOOL ART ROOM & OFFICE RENOVATION 159 SACKETT STREET PROVIDENCE, RI 02903		
REVISIONS		
MARK	DESCRIPTION	DATE
-	-	-
SHEET TITLE		
ELECTRICAL COVER SHEET		
ISSUE		
FOR CONSTRUCTION		
8-19-2026		
DRAWN JD	CHECKD JD	PROJECT NO. 26070
SHEET NO.		
E-000		

EXISTING PANEL

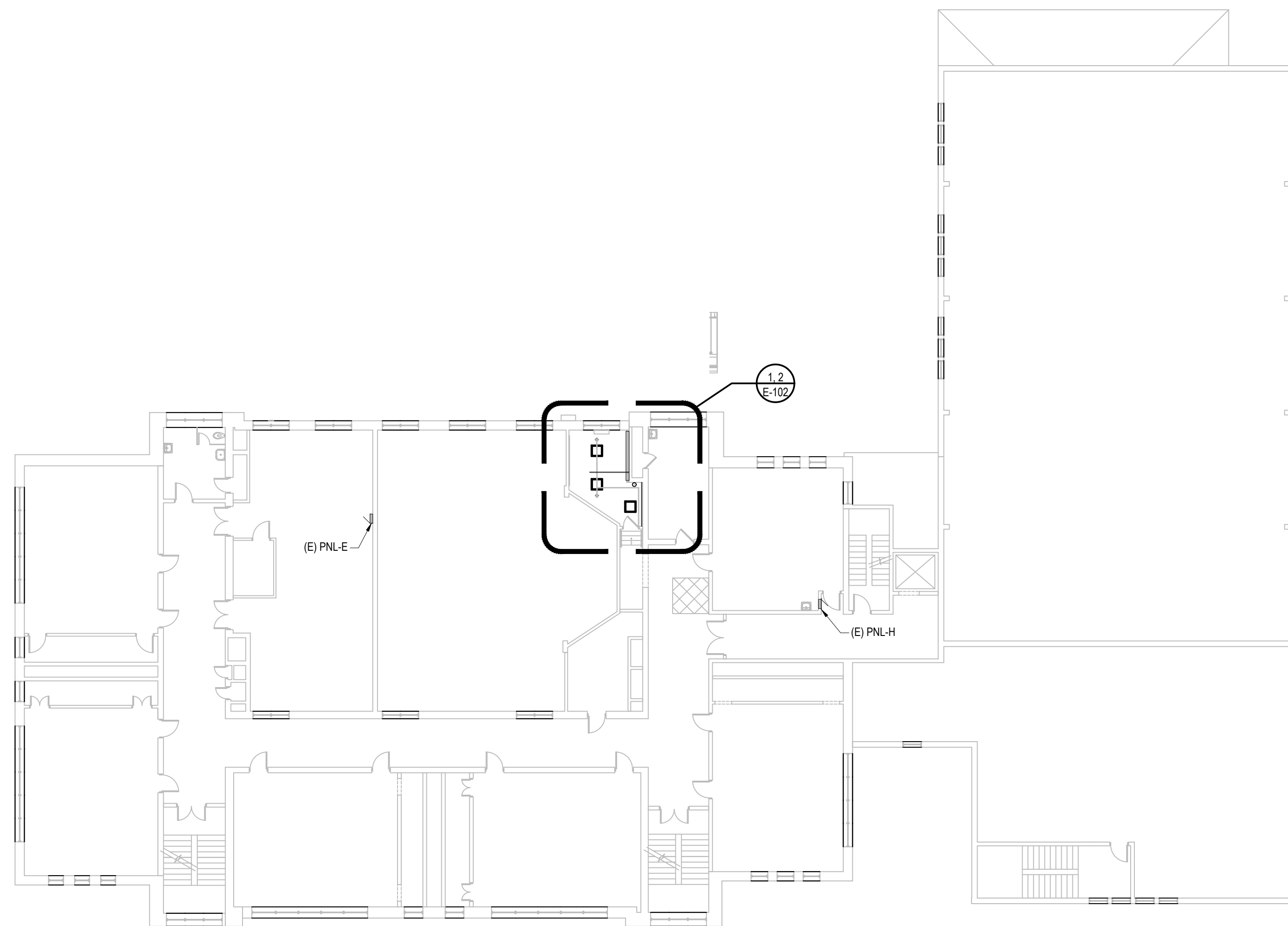
E								VOLTAGE: 208/120V, 1PH, 3W				
PANEL LOCATION: 2ND FLR - LIBRARY								ENCLOSURE: NEMA-1				
BUS: 100A								A.I.C. —				
MAIN: MLO								RATINGS: FRANK & ADAM				
ØA kVA	ØB kVA	DESCRIPTION		PHASE	BR	ØK	ØH	PHASE	BR	DESCRIPTION	ØA kVA	ØB kVA
-	-	EXISTING LOAD		1	20	1	11	30	1	EXISTING LOAD	-	-
-	-	EXISTING LOAD		1	20	2	12	30	1	EXISTING LOAD	-	-
-	-	EXISTING LOAD		1	20	3	13	20	1	EXISTING LOAD	-	-
-	-	EXISTING LOAD		1	20	4	14	20	1	EXISTING LOAD	-	-
-	-	EXISTING LOAD		1	20	5	15	20	1	RECEPT - OFFICE	0.72	-
-	-	EXISTING LOAD		1	20	6	16	20	1	SPARE	-	-
-	-	EXISTING LOAD		1	20	7	17	20	1	EXISTING LOAD	-	-
-	-	SPARE		1	20	8	18	20	1	EXISTING LOAD	-	-
-	-	SPARE		1	20	9	19	20	2	HP-1MSS-1 - OFFICE	1.12	-
-	-	SPARE		-	-	10	20				-	1.12
<u>CONNECTED LOAD</u>												
PHASE A: ___ kVA												
PHASE B: ___ kVA												
TOTAL CONNECTED LOAD = ___ kVA												

* REUSE EXISTING SPARE CIRCUIT BREAKER AND PROVIDE NEW 2#10 + 1#10G - 3/4"C.
** REMOVE EXISTING SPARE BREAKER. PROVIDE NEW BREAKER AND NEW 2#10 + 1#10G - 3/4"C.

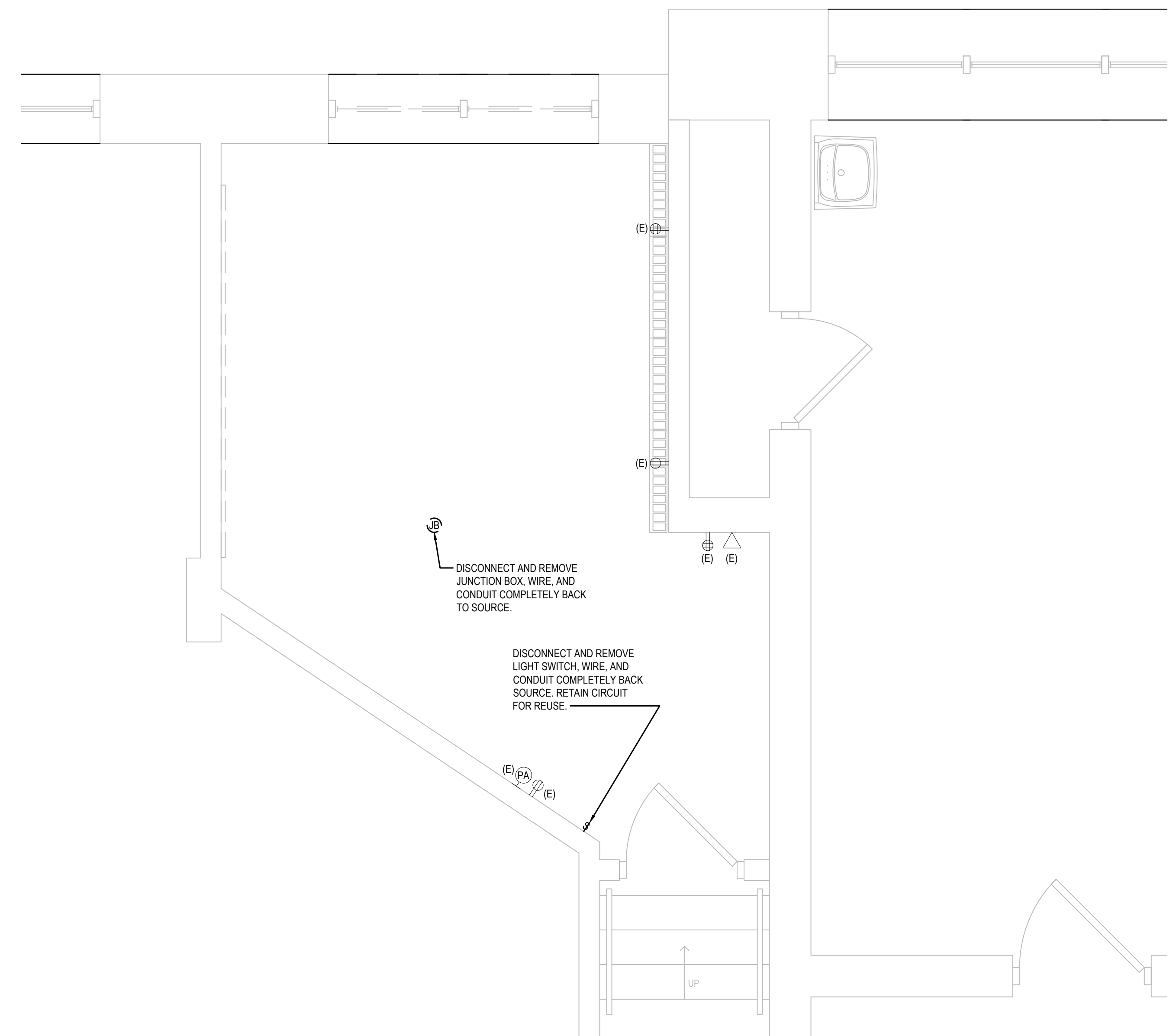
EXISTING PANEL

H														VOLTAGE:		208Y/120V, 3PH, 4W	
LOCATION:				2ND FLR - CORRIDOR										ENCLOSURE:		NEMA-1	
BUS:				125A										A.I.C.:		—	
MAKE:														RATINGS:		—	
														MFR:		SIEMENS S1C30ML125ATF	
0A kVA	0B kVA	0C kVA	DESCRIPTION	Pos	Br	Cr	Ø	Cr	Pos	DESCRIPTION	0A kVA	0B kVA	0C kVA				
-	-	-	EXISTING LOAD	1	20	1	A	2	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	3	B	4	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	5	C	5	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	7		6	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	9		10	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	11		12	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	13		14	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	15		16	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	17		18	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	19		20	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	21		22	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	23		24	20	1 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	25		26	30	3 EXISTING LOAD	-	-	-				
-	-	-	EXISTING LOAD	1	20	27		28			-	-	-				
-	-	-	EXISTING LOAD	1	20	29		30			-	-	-				
CONNECTED LOAD																	
PHASE A = kVA																	
PHASE B = kVA																	
PHASE C = kVA																	
TOTAL CONNECTED LOAD = kVA																	

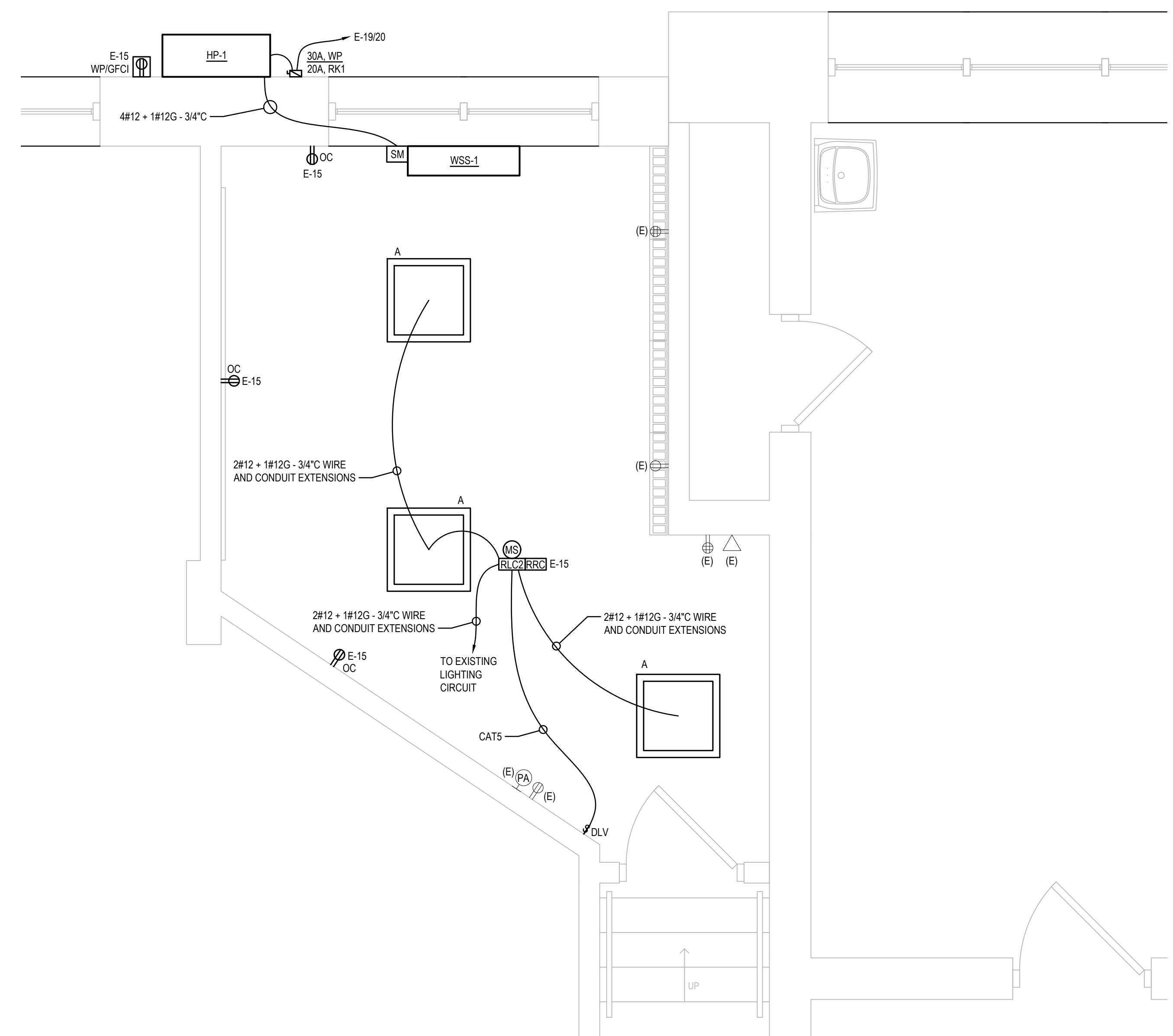
CONNECTED LOAD
 PHASE A: __ kVA
 PHASE B: __ kVA
 PHASE C: __ kVA
 TOTAL CONNECTED LOAD = __ kVA



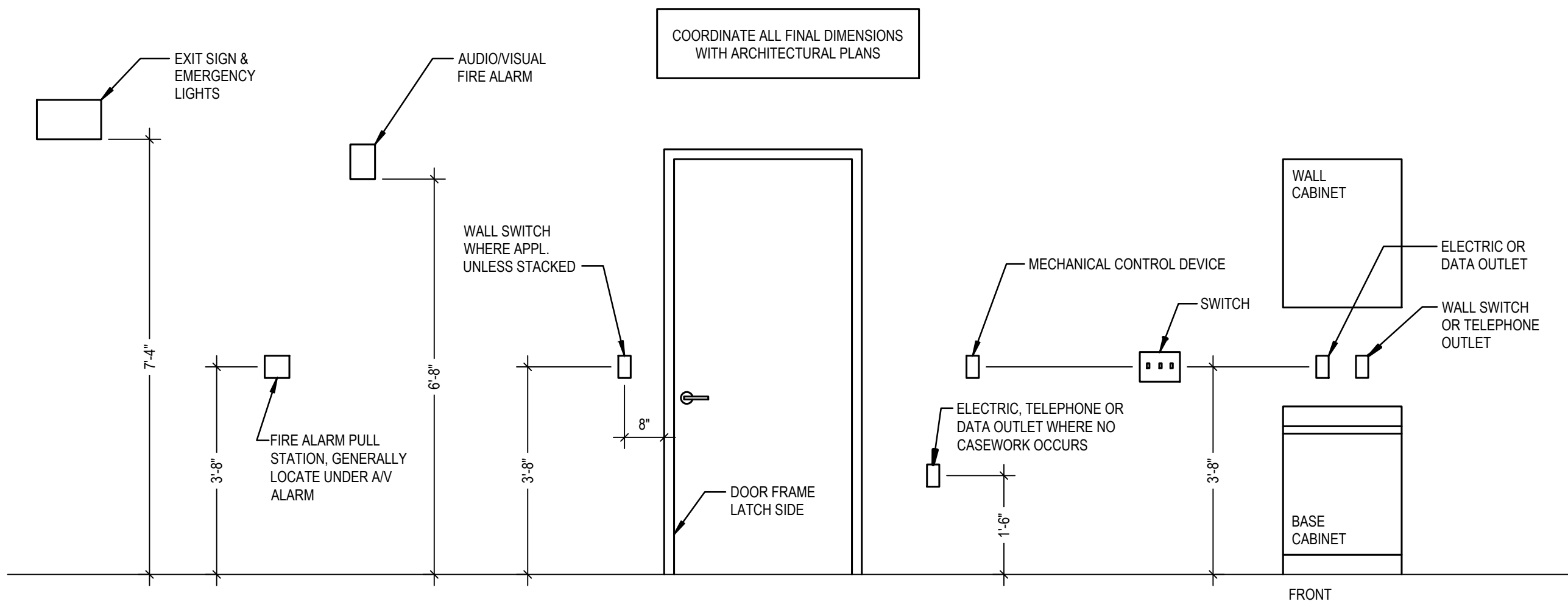
3 OVERALL 2ND FLOOR ELECTRICAL PLAN
E-102 SCALE: 1/16" = 1'-0"



1 OFFICE A ELECTRICAL DEMOLITION PLAN
E-102 SCALE: 1/2" = 1'-0"

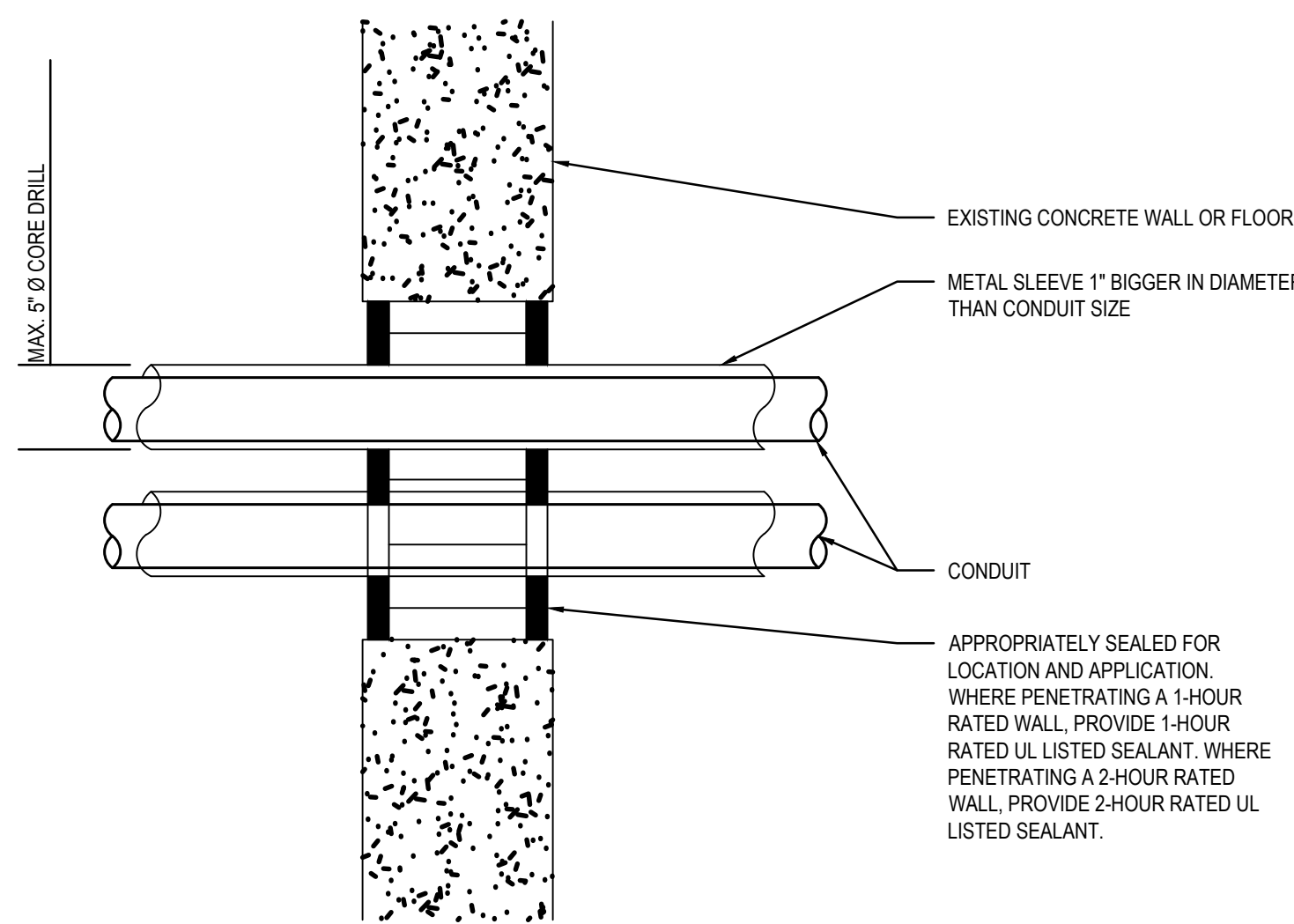


2 OFFICE A ELECTRICAL PLAN
E-102 SCALE: 1/2" = 1'-0"



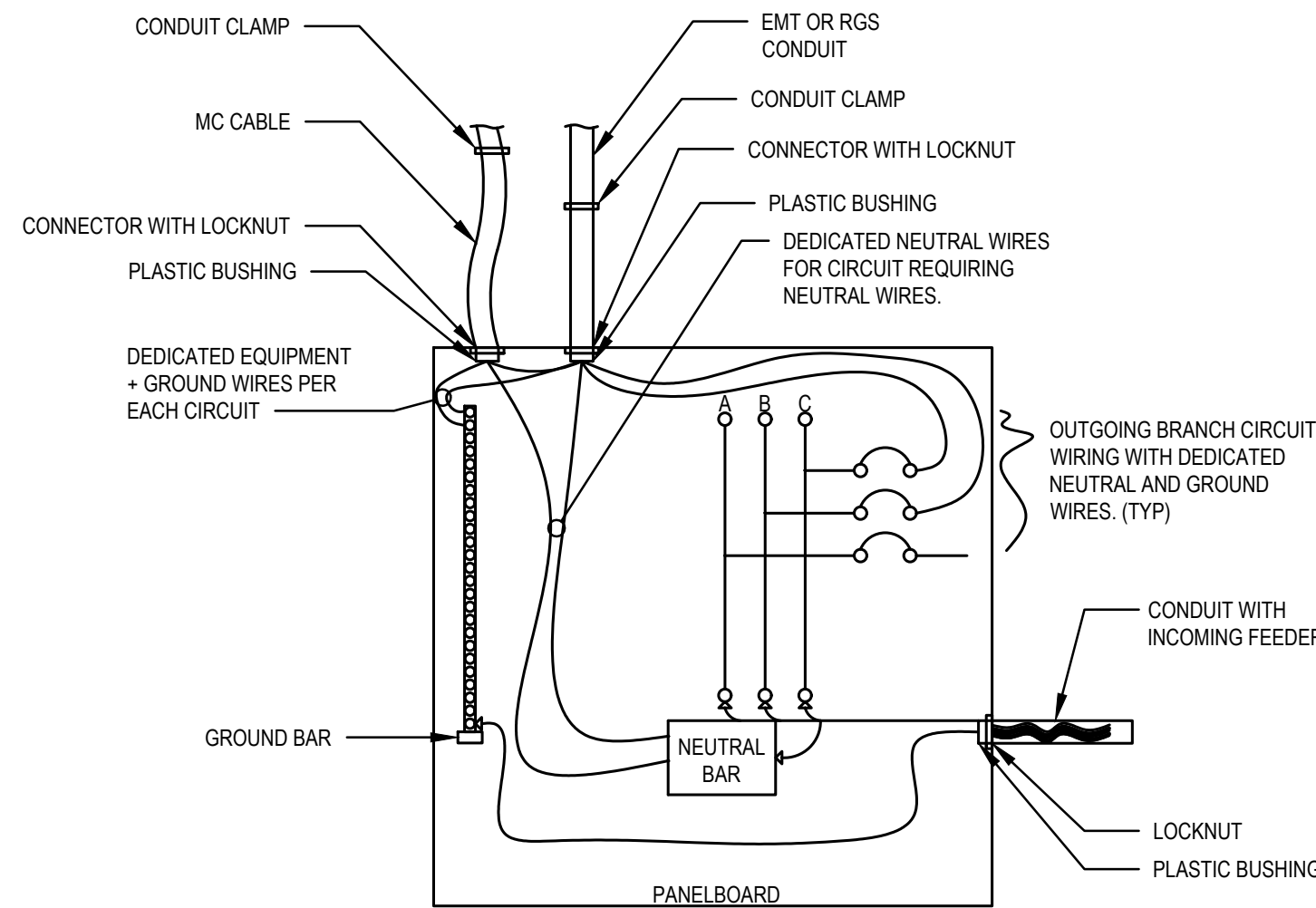
TYPICAL ELECTRICAL MOUNTING HEIGHTS

SCALE: NOT TO SCALE



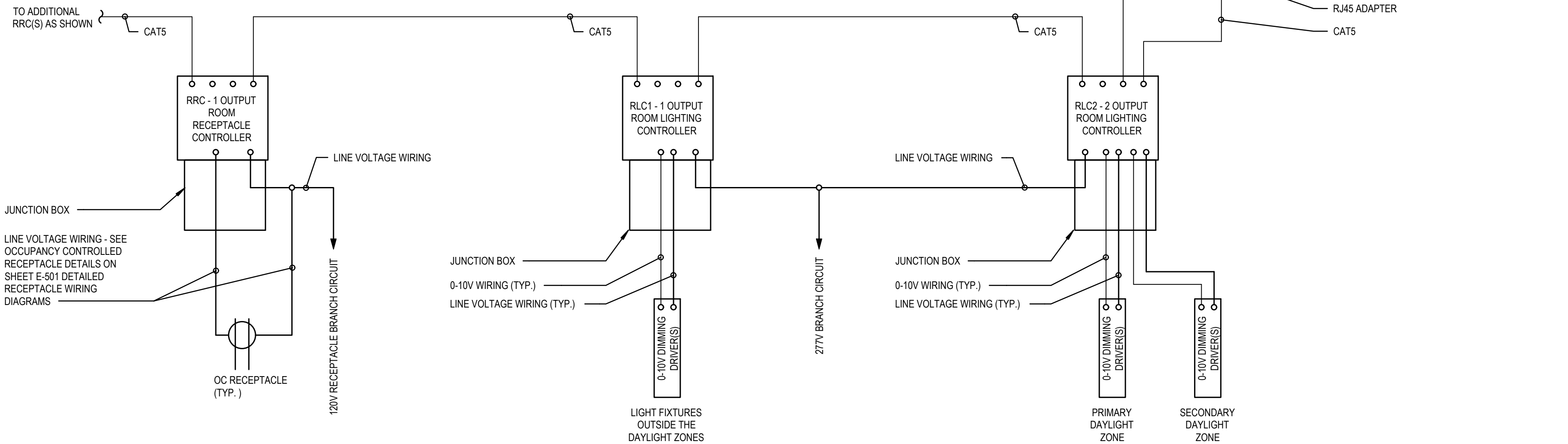
TYPICAL PENETRATION IN WALL OR FLOOR

SCALE: NOT TO SCALE



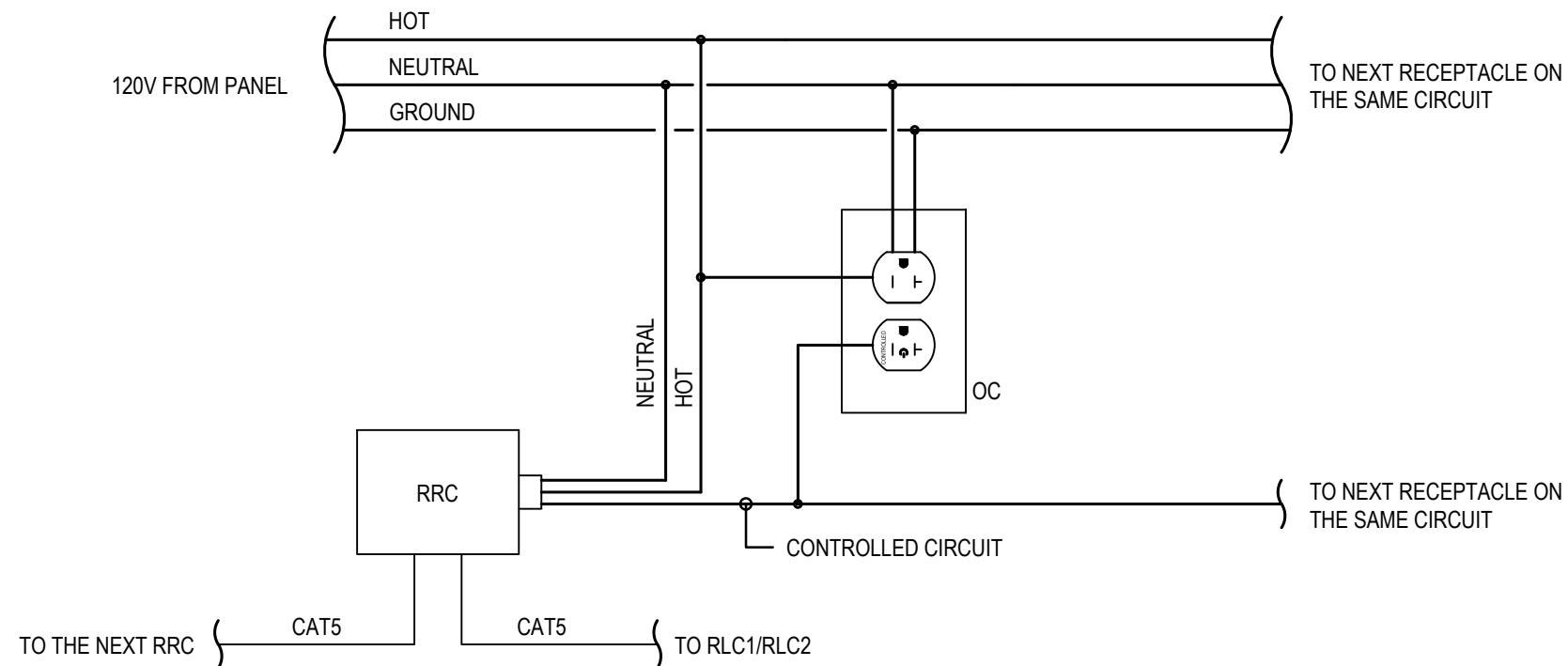
EQUIPMENT GROUND AND NEUTRAL WIRING IN PANELBOARD (TYP)

SCALE: NOT TO SCALE



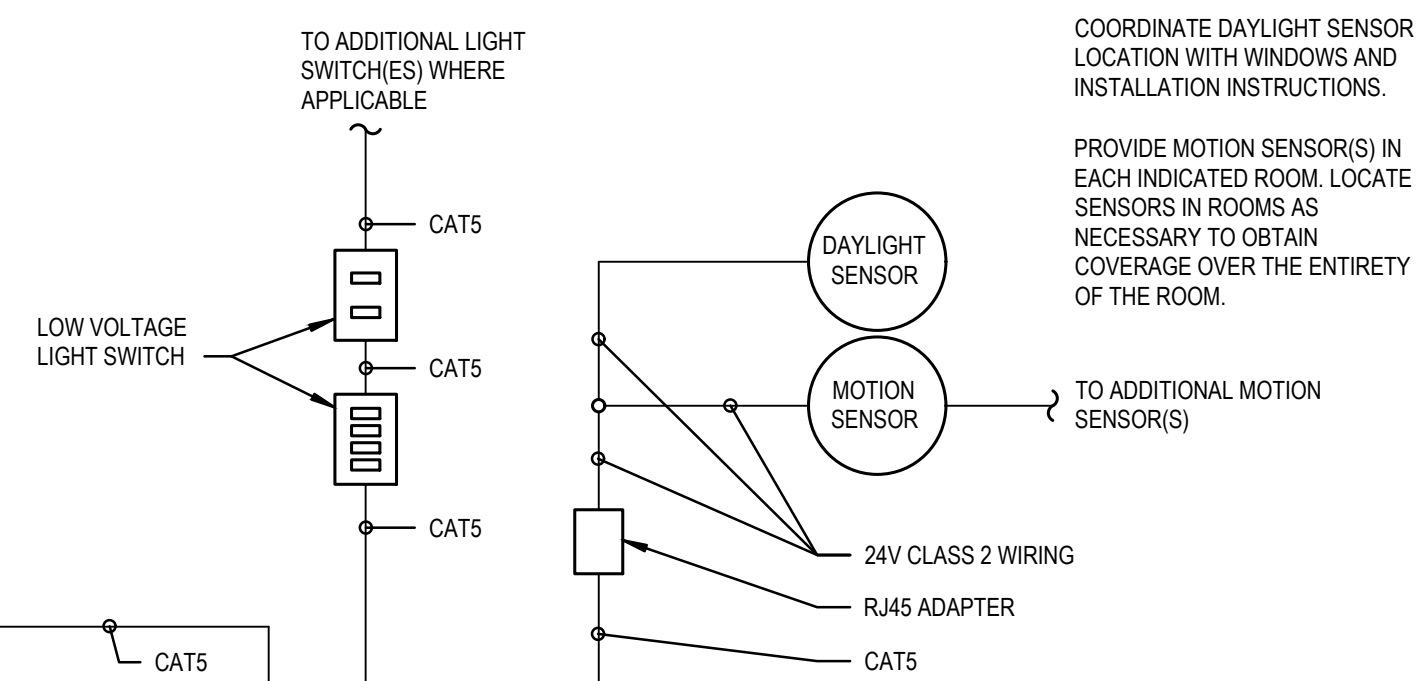
TYPICAL CLASSROOM LIGHTING AND RECEPTACLE CONTROL WIRING SCHEMATIC

SCALE: NOT TO SCALE



OCCUPANCY CONTROLLED RECEPTACLE DETAIL

SCALE: NOT TO SCALE



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ARCHITECT / ENGINEER SEAL

PROVIDENCE PUBLIC
SCHOOL DEPARTMENT
LILLIAN FEINSTEIN ELEMENTARY SCHOOL
ART ROOM & OFFICE RENOVATION
159 SACKETT STREET
PROVIDENCE, RI 02905

PROJECT

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE

ELECTRICAL DETAILS

ISSUE

**FOR
CONSTRUCTION**

8-19-2026
DRAWN: JD
CHKD: JD
PROJECT NO.: 26070

SHEET NO.

E-500
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ARCHITECT / ENGINEER SEAL

PROVIDENCE PUBLIC
SCHOOL DEPARTMENT
LIAN FEINSTEIN ELEMENTARY SCHOOL

ART ROOM & OFFICE RENNOVATION

139 SACKETT STREET
PROVIDENCE, RI 02906

PROJECT

REVISIONS

[illegible]

SHEET TITLE

PLUMBING ART ROOM PLAN

ISSUE

FOR
CONSTRUCTION

8-19-2026

DRAWN	CHK'D	PROJECT NO.
KW	BZ	26070

SHEET NO.

P-101

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1. SEE THE ARCHITECTURAL DRAWINGS FOR INFORMATION ON THE SCOPE OF CONSTRUCTION.
2. COLLECT FIXTURE VENTS IN VENT HEADER ABOVE CEILING AND CONNECT TO CLOSEST EXISTING VTR OR BRANCH VENT (OF THE SAME OR LARGER SIZE).
3. FOR ALL EQUIPMENT REQUIREMENTS, REFER TO SPECIFICATIONS, PLUMBING SCHEDULE OR DRAWINGS. CONTRACTOR SHALL NOT INSTALL EQUIPMENT/MATERIALS UNTIL SAME IS APPROVED.
4. INSTALL WATER HAMMER ARRESTORS IN DOMESTIC WATER PIPING AS REQUIRED PER P.D.I. WH-201 STANDARDS FOR WATER HAMMER ARRESTORS.
5. PROVIDE TRAPS FOR ALL PLUMBING EQUIPMENT CONNECTIONS AND/OR IN ANY SANITARY PIPING AS REQUIRED BY THE APPLICATION.
6. PRIOR TO SUBMITTING BID, THE CONTRACTOR/BIDDER SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. CONTRACTOR/BIDDER SHALL INCLUDE IN THEIR BID ALL MATERIALS, LABOR AND ACCESSORIES FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY INDICATED OR NOT. ALL ERRORS, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS. IN THE CONTRACT/BIDDER, THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE, NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE BY THE CONTRACTOR/BIDDER.
7. ALL INSTALLATIONS SHALL COMPLY WITH ALL CODES OR REGULATIONS, LOCAL, STATE, OR NATIONAL HAVING JURISDICTION OVER THE PROJECT.
8. ALL FIXTURES AND PIPING INSTALLATIONS SHALL BE PROPERLY BRACED, RIGIDLY SUPPORTED, AND INSTALLED WITH ADEQUATE VIBRATION ISOLATION AND INSULATION.
9. PROVIDE ALL LABOR, MATERIALS, AND INSTALLATION APPARATUS TO INSURE A COMPLETE OPERATING SYSTEM IMPLIED BY DRAWING CONTENT AND AS SPECIFIED.
10. THOROUGHLY COORDINATE ALL PLUMBING INSTALLATIONS WITH WORK OF OTHER CONSTRUCTION DISCIPLINES.
11. SEAL ALL RESPECTIVE WALL, FLOOR, AND CEILING/ROOF PENETRATIONS AS APPROPRIATE TO MAINTAIN A WEATHER TIGHT ENVELOPE. FIRE BARRIER, SMOKE BARRIER, ETC. AS APPLICABLE. REFER TO ARCHITECTURE PLANS FOR SMOKE AND FIRE BARRIERS/PARTITIONS.
12. CONTRACTOR TO PAY FOR ALL FEES AND PERMITS ASSOCIATED WITH PLUMBING WORK INDICATED AS NECESSARY TO SECURE A COMPLETE AND OPERATIONAL SYSTEM ON SCHEDULE AND IN A TIMELY MANNER.
13. CONNECT DHW, DCW, DHWR VENT, AND SOIL & WASTE LINES TO FIXTURES IN ACCORDANCE WITH SIZES INDICATED ON FIXTURE SCHEDULE.
14. RUN 2" MINIMUM SIZES SOIL & WASTE PIPING BELOW GROUND INSIDE BUILDING REGARDLESS OF SIZE ON FIXTURE CONNECTION SCHEDULE.
15. ALL DIMENSIONS AND PIPE SIZES ARE IN INCHES, UNLESS NOTED OTHERWISE.
16. FURNISH AND INSTALL ACCESS PANELS WHERE REQUIRED FOR ACCESS TO ALL CONCEALED VALVES, TRAPS, OR OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT WHERE NO OTHER MEANS IS AVAILABLE.
17. INSTALL ALL SHUT-OFF AND ISOLATION VALVES (WITH ACCESS PANELS IF NECESSARY) IN A LOCATION WHICH IS ACCESSIBLE FROM THE MAIN FLOOR.
18. CONTRACTOR TO PROVIDE SHUT-OFF VALVES AT ALL DEVICES.
19. KEEP ALL OPENINGS IN PIPES OR FITTINGS PLUGGED OR CAPPED UNTIL CONNECTED.
20. SLOPE ALL DWV LINES $\frac{1}{4}"$ PER FOOT ($3"$ AND ABOVE), $\frac{1}{8}"$ PER FOOT ($\frac{3}{4}"$ AND BELOW).
21. INSTALL ALL FIXTURES, AS SPECIFIED, WITH SUPPLY SLOPES.
22. INSTALL WATER AND SUPPLY GUARDS UNDER ALL LAVS-SEE FIXTURE SCHEDULE.
23. MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE COMPLETE, CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUESTIONS FOR PAYMENT ARE SUBMITTED.

Diagram illustrating various plumbing symbols and their corresponding labels:

- SINK**: Represented by a square with a circle inside.
- DOMESTIC COLD WATER**: Represented by a solid line.
- DOMESTIC HOT WATER**: Represented by a dashed line.
- DOMESTIC HOT WATER RETURN**: Represented by a line with a dashed center.
- SANITARY SEWER**: Represented by a solid line with a dashed center.
- SANITARY VENT PIPING**: Represented by a dashed line.
- DIRECTION OF FLOW**: Represented by a solid line with an arrow pointing right.
- BALL VALVE**: Represented by a line with a valve symbol (two triangles meeting at a point).
- CAPPED PIPE**: Represented by a line ending in a T-shaped cap.
- PIPE UP**: Represented by a line ending in a circle with a dot.
- PIPE DOWN**: Represented by a line ending in a circle with a vertical line through the center.
- DCW**: Domestic Cold Water
- DHW**: Domestic Hot Water
- DHWR**: Domestic Hot Water Return

[illegible]

NOTES: PROVIDE EQUIPMENT AS SCHEDULED OR APPROVED EQUAL. PROVIDE FIXTURE STOPS FOR ALL EQUIPMENT.

P-101 SCALE: 3/8" = 1'-0"

P-101 SCALE: 3/8" = 1'-0"