	ELECTRICAL SYMBOL LIST
SYMBOL	DESCRIPTION
	SYMBOLS DEPICTED WITH HEAVY LINES SHALL INDICATE NEW DEVICE OR EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT.
	SYMBOLS DEPICTED WITH LIGHT LINES SHALL INDICATE EXISTING DEVICE OR EQUIPMENT TO REMAIN.
<i>Y</i> // <i>X</i> ,	SYMBOLS DEPICTED WITH HATCH SHALL INDICATE EXISTING ELECTRICAL OR MECHANICAL EQUIPMENT TO BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE.
	HATCH ITEM ON PLANS DEPICTS, EXISTING LIGHTING, EQUIPMENT & DEVICES, ETC. TO TO BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE, INCLUDING WIRING AND CONDUIT.
	NON HATCH ITEM ON PLANS WITH LIGHT LINEWEIGHT DEPICTS, EXISTING LIGHTING, EQUIPMENT & DEVICES, ETC. TO REMAIN UNLESS OTHERWISE NOTED.
	CONDUIT TURNED UP.
	CONDUIT TURNED DOWN.
LPA#1	HOMERUN TO PANEL - NUMERALS INDICATE CIRCUIT NUMBERS IN PANELBOARD 'LPA'. ARROW INDICATES SEPARATE CIRCUIT, EACH CIRCUIT CONSIST OF MINIMUM (2#12 + 1#12 GROUND - 3/4"C U.O.N.)
	EXISTING PANELBOARD.
□ _{200A}	LOW VOLTAGE (<1000 VOLTS) UNFUSED DISCONNECT SWITCH. 3 POLE U.O.N. 'A' DENOTES SWITCH RATING IN AMPERES.
200AS 200AF	LOW VOLTAGE (<1000 VOLTS) FUSED DISCONNECT SWITCH. 3 POLE U.ON. 'AS' INDICATES SWITCH RATING IN AMPERES. 'AF' INDICATES FUSE RATING IN AMPERES.
S⊤	MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION.
<u>+</u>	GROUND AS REQUIRED BY NATIONAL ELECTRICAL CODE.
Q	WALL MOUNTED JUNCTION BOX.
0	CEILING MOUNTED JUNCTION BOX.
Ф USB CL	DUPLEX CONVENIENCE RECEPTACLE, 125 VAC, 20A, HEAVY DUTY GRADE GROUNDING TYPE. MOUNTING HEIGHT 18" AFF, U.O.N. 'GFI' DENOTES GROUND FAULT INTERRUPTER - SELF TESTING TYPE. 'USB' INDICATES UNIVERSAL SERIAL BUS PORT. 'CL' INDICATES RECESSED MOUNTED CLOCK HANGER RECEPTACLE 1P-15A, 125V.
₩	DOUBLE DUPLEX RECEPTACLE. WALL MOUNTED 18" A.F.F. RATED 20A, 125V, 2P, 3W.
(#)	RECESSED QUAD FLOOR BOX, AS PER HUBBELL, PART #B244 WITH COVER PART #S3826.
Sa	LIGHT SWITCH WITH DEVICE BOX AND PLATE. 'a' DENOTES LIGHTING CONTROL ZONE.
SPD	AVI-ON PADDLE SWITCH, ON/OFF, DIMM 2401AC-3. 'a' DENOTES LIGHTING CONTROL ZONE.
Ssc	AVI-ON SCENE CONTROLLER 2401AC-3.
S ^a vc	WALL MOUNTED VACANCY SENSOR SWITCH. AVI-SEN-DUCM-24. 'a' DENOTES LIGHTING CONTROL ZONE.
VC	AVI-ON DUALTECH CELLING SENSOR, AVI-SEN-DUCM-24.
PP	AVI-ON EXTERNAL POWER PACK - 16A, AVI-XFAC-16A.
∇	WALL MOUNTED DATA DUPLEX OUTLET. PROVIDE 1" E.C. WITH DRAG WIRE 6" ABOVE NEAREST ACCESSIBLE HUNG CEILING.
▼	WALL MOUNTED TELEPHONE/DATA QUAD OUTLET. PROVIDE 1" E.C. WITH DRAG WIRE 6" ABOVE NEAREST ACCESSIBLE HUNG CEILING.
©	CEILING MOUNTED DATA QUAD OUTLET. PROVIDE 1" E.C. WITH DRAG WIRE 6" ABOVE NEAREST ACCESSIBLE HUNG CEILING.
1,1	NOTE NUMBER WITHIN DIAMOND TO BE SPECIFIC TO AREA/ITEM INDICATED ON DRAWING. NOTE NUMBER WITHOUT DIAMOND IS A GENERAL NOTE AND PERTAINS TO ALL CONDITIONS WHERE IT MAY APPLY.
⊗ _{DR}	EXIT SIGN. POWERED FROM UNSWITCHED LEG OF EMERGENCY POWER BRANCH CIRCUIT. 'DR' INDICATES DARK ROOM TYPE.
⟨S⟩ _{EX}	EXISTING SMOKE DETECTOR TO REMAIN U.O.N.
Ē	FIRE ALARM SPEAKER/STROBE.
<u> </u>	FIRE ALARM STROBE.

ELECTRICAL ABBREVIATIONS						
А	AMPERE					
AF	AMPERE FRAME					
A.F.F.	ABOVE FINISHED FLOOR					
AS	AMPERE SWITCH					
AT	AMPERE TRIP					
ATS	AUTOMATIC TRANSFER SWITCH					
С	CONDUIT					
СВ	CIRCUIT BREAKER					
CKT	CIRCUIT					
DWG.	DRAWING					
EM	EMERGENCY					
ERL	EXISTING TO BE RELOCATED. EXTEND CONDUIT & WIRING AS REQUIRED, UON.					
EX, EXST	EXISTING					
EC	EMPTY CONDUIT					
ELEC	ELECTRICAL					
EM	EMERGENCY					
FSD	FIRE SMOKE DAMPER					
G,GND	GROUND					
HP	HORSE POWER					
MCB	MAIN CIRCUIT BREAKER					
NL	NIGHTLIGHT					
PH,Ø	PHASE					
RL	RELOCATED DEVICE. PROVIDE JUNCTION BOX AND INTERCEPT AND EXTEND CONDUIT AND WIRING TO NEW LOCATION AS SHOWN.					
SD	SMOKE DAMPER					
SW	SWITCH					
SWBD	SWITCHBOARD					
T, TR	TRANSFORMER					
TYP	TYPICAL					
U.O.N.	UNLESS OTHERWISE NOTED					
W	WIRE					
WP	WEATHERPROOF					
XFMR	TRANSFORMER					

	DRAWING LIST
E-001	ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE AND DRAWING LIST
E-002	ELECTRICAL NOTES AND PART FIRE ALARM RISER DIAGRAM
E-101	ELECTRICAL BASEMENT PART PLAN - DEMOLITION
E-201	ELECTRICAL BASEMENT PART PLAN - LIGHTING
E-301	ELECTRICAL BASEMENT PART PLAN - POWER
E-401	ELECTRICAL BASEMENT PART PLAN - EQUIPMENT POWER & SYSTEM
E-501	ELECTRICAL PANEL SCHEDULES (SHEET 1 OF 3)
E-502	ELECTRICAL PANEL SCHEDULES (SHEET 2 OF 3)
E-503	ELECTRICAL PANEL SCHEDULES (SHEET 3 OF 3)
E-601	ELECTRICAL DETAILS
E-602	ELECTRICAL LIGHTING CONTROL DETAILS (SHEET 1 OF 2)
E-603	ELECTRICAL LIGHTING CONTROL DETAILS (SHEET 2 OF 2)

YPE	MTG/HT.	LAMP	VOLTS	DESCRIPTION	MANUFACTURER
А	SURFACE WALL	LED 9.46W/FT	UNV (120/277V)	LINEAR WALL LED FIXTURE. LENGTHS AS INDICATED ON ARCHITECTURAL DRAWING A-210.	OPTION 1: EXTANT ARCHITECTURAL LIGHTING-HTG-1P-RD-DT-CP-DHL-90+CRI-MEOWW-VL -D-BP-AC-48-BK-C5-SQB OPTION 2: ELLIPTIPAR S118-H-6-X-M-XB-O-ZX-LENGTH OPTION 3: LUMENWERX VIA1.5W-D-HLO-FH-NA-SW-90CRI-500LMF-NA-XXX-LENGTH -UNV-D1-1C-DMB-FINISH-NA
В	PENDANT	LED 9.46W/FT	UNV (120/277V)	LINEAR PENDANT LED FIXTURE. LENGTH AS INDICATED ON ARCHITECTURAL DRAWING A-210.	OPTION 1: EXTANT ARCHITECTURAL LIGHTING_HTG-1P-RD-DT-CP-DHL-90+CRI-MEODF-VU- DN-BP-SOC-AC-48-BK-C5-SQB OPTION 2: ELLIPTIPAR S118-H-6-X-M-XB-O-ZX-LENGTH OPTION 3: LUMENWERX VIA1.5P-D-HLO-FH-NA-SW-90CRI-500LMF-NA-XXX-LENGTH UNV-1C-ACS-UNV-FINISH-NA
B1	SURFACE VERTICAL	LED 9.46W/FT	UNV (120/277V)	2'-0" LINEAR VERTICAL SURFACE MOUNTED LED FIXTURE.	OPTION 1: EXTANT ARCHITECTURAL LIGHTING-HTG-1P-RD-DT-CP-DHL-90+CRI-MEODF-VU- DN-BP-SOC-AC-48-BK-C5-SQB OPTION 2: ELLIPTIPAR S118-H-6-X-M-XB-O-ZX-LENGTH OPTION 3: LUMENWERX VIA1.5W-D-HLO-FH-NA-SW-90CRI-500LMF-NA-XXX-LENGTH-UNV-D1-1C-DMB-FINISH-NA
С	UNDER CABINET	LED 7.9W/FT	UNV (120/277V)	UNDER CABINET LED LIGHTING FIXTURE WITH INTEGRAL OCCUPANCY SENSOR. LENGTH AS INDICATED ON ARCHITECTURAL DRAWING A-210.	OPTION 1: BARTCO-BSS305-4-35-ND-R-F-OC-MB OR APPROVED EQUAL
D	RECESSED	LED 20W	UNV (120/277V)	3" SQUARE LED DOWNLIGHT WITH INTEGRAL DRIVER.	OPTION 1: USAI - B3SDL-20X3-35KS-45-S-BL-BL -UNV-D5E-EM7 OR APPROVED EQUAL
E	RECESSED	LED 21.3W	UNV (120/277V)	EXISTING 2X2 LED TROFFER TO BE RE-USED/RELOCATED.	EXISTING OR APPROVED EQUAL
F	RECESSED	LED 20W	UNV (120/277V)	1X2 DARKROOM SAFELIGHTS WITH LED LIGHT.	OPTION 1: KURTZON-DKS-F/G-2-1X2-AMB/WHT-AMB/WHT-UNV NO SUBSTITUTION
G	RECESSED	LED 20W	UNV (120/277V)	1X1 DARKROOM SAFELIGHTS WITH LED LIGHT.	OPTION 1: KURTZON-DKS-F/G-2-1X1-AMB/WHT-UNV NO SUBSTITUTION
Х	RECESSED / SURFACE	LED 1.9W	12V	LED EXIT SIGN.	OPTION 1: ENCORE -X-UNO SERIES-X-6 OR APPROVED EQUAL
IU	RECESSED	LED 9W	12V	ILLUMINATED IN-USE WARNING SIGN.	OPTION 1: REKALL DYNAMICS-RD2020-120-DRI-RED-120V OR APPROVED EQUAL

- REFER TO ARCHITECTURAL PLANS FOR LIGHTING FIXTURES EXACT LOCATION, LENGTHS, MOUNTING REQUIREMENTS, AND CATALOG NUMBERS. - 'EM' TAG NEXT TO LIGHTING FIXTURES INDICATES THAT THE FIXTURE IS TO BE PROVIDED WITH EMERGENCY POWER AND SWITCHING. - 'EM-NL' TAG NEXT TO LIGHTING FIXTURES INDICATES THAT THE FIXTURE IS TO BE PROVIDED WITH EMERGENCY POWER AND UNSWITCHED.

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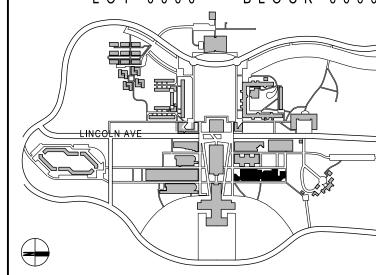
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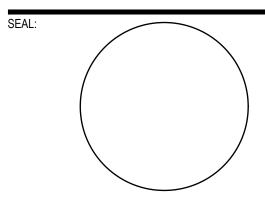


CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS & DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK. NO ALLOWANCES SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

BUILDING DEPARTMENT NOTE:

THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

BID ISSUE



02.20.2024 ISSUED FOR BID 12.04.2023 ISSUED FOR CLIENT APPROVAL

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SCALE: NONE

PROJECT NO: 10967 DATE:

ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING FIXTURE **SCHEDULE AND DRAWING LIST**

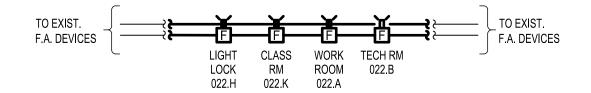
DRAWING NUMBER

E-001.00

- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED.
- PRIOR TO STARTING ANY WORK, PURCHASE OF EQUIPMENT, ETC., COORDINATE THE WORK WITH OTHER TRADES. CONFER WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION AND ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT OF OTHERS, WITH THE BUILDING CONSTRUCTION AND WITH ARCHITECTURAL FINISH SO THAT IT WILL HARMONIZE IN SERVICE AND APPEARANCE. IN THE EVENT THERE IS A CONFLICT IN COORDINATION BETWEEN TRADES, THE OWNER WILL RESOLVE IT.
- 4. 3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED.
- PROVIDE GROUND WIRE IN ALL FEEDERS AND BRANCH CIRCUITS.
- PROVIDE A DEDICATED NEUTRAL FOR EACH 120V CIRCUIT.
- ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, AND ANY PORTIONS OF THE WORK WHICH DEVELOP DEFECTS DURING THAT TIME SHALL BE REPLACED OR REPAIRED IN A MANNER SATISFACTORY TO THE DESIGN ENGINEER AND THE OWNERS.
- ALL POWER SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER. SUBMIT A WRITTEN REQUEST TO THE OWNER FOR APPROVAL TO SHUT DOWN ANY ELECTRICAL SYSTEM. THE WRITTEN REQUEST SHALL INCLUDE SYSTEM BEING SHUTDOWN, TIME REQUEST FOR SHUTDOWN AND DESCRIPTION OF WORK TO BE PERFORMED. NO SYSTEM SHALL BE SHUTDOWN WITHOUT OBTAINING WRITTEN CONSENT FROM THE OWNER.
- 9. ALL PARTS OF THE WORK AND ASSOCIATED EQUIPMENT SHALL BE TESTED AND ADJUSTED TO WORK PROPERLY AND BE LEFT IN PERFECT OPERATING CONDITION. THIS SHALL INCLUDE MEGGER TESTS BETWEEN PHASES AND BETWEEN EACH PHASE AND GROUND OF ALL FEEDERS, AND PANELBOARDS. CORRECT DEFECTS DISCLOSED BY THESE TESTS.
- 10. WHEN USING TEMPORARY LIGHTING AND POWER, CLEARLY LABEL PANELS AND BREAKERS USED FOR LIGHTING AND POWER. PROPER TEMPORARY LIGHTING AND POWER MUST BE INSTALLED AND MAINTAINED IN ALL WORK AREAS.
- 11. REMOVE ALL DEBRIS FROM ELECTRICAL ROOMS PRIOR TO COMPLETION OF WORK EACH DAY.
- 12. THE OPERATION OF THE ELECTRICAL INSTALLATION DOES NOT CONSTITUTE AN ACCEPTANCE OF WORK BY THE OWNER. FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND HAS FURNISHED ALL REQUIRED CERTIFICATES OF APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION AND UNDERWRITERS.
- 13. PROVIDE AN ELECTRICAL INSPECTION APPROVAL CERTIFICATE UPON COMPLETION OF WORK.
- 14. ALL BOXES AND ENCLOSURES FOR EMERGENCY AND NORMAL CIRCUITS SHALL BE PERMANENTLY MARKED.
- 15. PULL BOXES WHETHER SIZED OR NOT SHALL BE MODIFIED TO MEET FIELD CONDITIONS AND CODE REQUIREMENTS. ADDITIONAL PULL BOXES, IF REQUIRED TO SATISFY FIELD CONDITIONS AND CODE REQUIREMENTS SHALL BE SUPPLIED AND INSTALLED BY THIS CONTRACTOR AT NO EXTRA COST.
- 16. THE EMERGENCY POWER BRANCH CIRCUITRY SHALL NOT ENTER THE SAME RACEWAYS, BOXES, OR CABINETS WITH NORMAL POWER BRANCH CIRCUITRY OR OTHER WIRING.
- 17. CIRCUIT BREAKER HANDLE LOCKS SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS SERVING LIFE SAFETY LOADS (EMERGENCY LIGHTING, EXIT LIGHTING, FIRE ALARM, ETC.) AND SECURITY EQUIPMENT.
- 18. WHERE EQUIPMENT, LIGHTING FIXTURES AND WIRING DEVICES ARE SHOWN WITH CIRCUIT NUMBERS ONLY, THE MINIMUM BRANCH CIRCUITING REQUIREMENTS SHALL BE AS FOLLOWS:
 - a. LIGHTING FIXTURES 2#12,#12G-3/4"C.
 - b. RECEPTACLES 2#12,#12G-3/4"C.
 - c. BRANCH CIRCUIT BREAKERS (120 VOLT) 1P-20A.
 - d. HOMERUNS TO PANELBOARDS SHALL CONTAIN NO MORE THAN (3) DEDICATED CIRCUITS. EACH SINGLE PHASE BRANCH CIRCUIT (120V OR 277V) SHALL BE PROVIDED WITH DEDICATED NEUTRAL CONDUCTOR.
 - e. WIRE SIZES SHALL BE INCREASED TO No. 10 AWG WHERE 120V BRANCH CIRCUITS ARE IN EXCESS OF 75 FEET TO COMPENSATE FOR VOLTAGE DROP.
 - f. WHERE LIGHTING SWITCH INDICATIONS ARE NOT SHOWN, SWITCHES SHALL BE CONNECTED TO CONTROL ALL SWITCHED FIXTURES WITHIN THE CORRESPONDING SPACE.
 - g. MINIMUM RACEWAY SIZE SHALL BE 3/4" AND SHALL BE RUN PARALLEL TO BUILDING STRUCTURAL LINES. RACEWAYS SHALL NOT BE RUN HORIZONTALLY BELOW 8'-0" IN PARTITIONS. ALL EMPTY RACEWAYS SHALL BE FURNISHED WITH 1 200 LB. TEST NYLON DRAG LINE

- 19. ALL CONDUITS INCLUDING THOSE RUN IN CEILING AND IN SHAFT RISER SHALL BE IDENTIFIED AT EVERY PULL BOX WITH PANEL AND CIRCUIT NUMBER OR SYSTEM NAME.
- 20. WIRING FOR EACH LOW VOLTAGE OR SIGNAL SYSTEM SHALL BE RUN IN CONDUITS AND RACEWAY SEPARATE FROM ALL OTHER SYSTEMS AND SEPARATE FROM LIGHT AND POWER WIRING
- 21. MOUNTING HEIGHTS OF EQUIPMENT AND DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS. WHERE MOUNTING HEIGHTS ARE NOT GIVEN ON THE ARCHITECTURAL DRAWINGS, UTILIZE THE FOLLOWING MOUNTING HEIGHTS UNLESS OTHERWISE NOTED (ALL DIMENSIONS TO CENTERLINE OF BOX):
 - a. RECEPTACLES (WALL MOUNTED) 18" A.F.F.
 - b. TELEPHONE/DATA OUTLETS SAME HEIGHT AS RECEPTACLES.
 - WALL MOUNTED TELEPHONES 48" A.F.F.
 - d. LIGHTING SWITCHES AND CONTROLS 48" A.F.F.
 - e. LIGHTING FIXTURES (AREAS WITHOUT CEILINGS) 11'-0" A.F.F. COORDINATE WITH ARCHITECT
 - PANELBOARDS AND CABINETS 78" TO TOP OF ENCLOSURE.
- 22. SPLICES IN CONDUCTORS SHALL BE ELIMINATED WHEREVER POSSIBLE, AND WHERE NECESSARY (AS ONLY APPROVED BY ENGINEER) SHALL ONLY BE MADE IN READILY ACCESSIBLE JUNCTION BOXES.
- 23. PROVIDE APPROVED FIRE STOPPING AT ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, CEILING AND PARTITIONS TO MAINTAIN FIRE RATING OF FLOORS, WALLS, CEILINGS OR PARTITIONS.
 - a. MAINTAIN ADEQUATE ACCESS TO ALL JUNCTION. TERMINATION AND PULL BOXES.
 - MAINTAIN ADEQUATE ACCESS TO ALL EQUIPMENT FOR OPERATION, MAINTENANCE AND REPAIRS.
- 24. SUPPORT WALL MOUNTED ELECTRICAL EQUIPMENT (I.E. PANELBOARDS, ETC.) BY UNISTRUT CHANNELS SECURED TO FLOOR AND CEILING. UNLESS WALL IS OF MASONRY TYPE WHICH IS OF SUITABLE CONSTRUCTION TO SUPPORT WEIGHT OF EQUIPMENT, OR EXCEPT AS OTHERWISE NOTED OR SPECIFIED.
- 25. IN FINISHED AREAS, PROVIDE RECESSED ELECTRICAL OUTLET BOXES FOR ALL EQUIPMENT AND DEVICES EXCEPT AS OTHERWISE NOTED OR SPECIFIED. INSTALL CONDUIT CONCEALED IN WALLS AND HUNG CEILINGS. SPLICE BOXES IN NON-ACCESSIBLE LOCATIONS ARE NOT PERMITTED. IN UNFINISHED AREAS (E.G. MECHANICAL EQUIPMENT ROOMS, ELECTRICAL EQUIPMENT ROOMS, ETC.) OUTLET BOXES MAY BE SURFACE MOUNTED AND CONDUITS RUN EXPOSED.
- 26. SURVEY EXISTING ELECTRICAL EQUIPMENT, DEVICES AND RACEWAYS ALTHOUGH NOT SHOWN ON THE DRAWINGS, WHICH MAY INTERFERE WITH THE WORK, TO DETERMINE THE SOURCE OF POWER AND THE LOAD IT SERVES. IMMEDIATELY SUBMIT THIS INFORMATION TO THE CAMPUS ENGINEER FOR REVIEW. DISCONNECT AND EITHER REMOVE COMPLETELY OR RELOCATE AND RECONNECT THESE MATERIALS AS DIRECTED BY THE CAMPUS ENGINEER.
- 27. MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING EQUIPMENT TO REMAIN IN SERVICE. PROVIDE TRACING MATERIAL AND LABOR TO MAINTAIN POWER CONTINUITY.
- 28. ALL PANELS SHALL BE UPDATED AND HAVE PANEL DIRECTORIES IN TYPED FORM. ALL PANEL DIRECTORIES SHALL INCLUDE PANELBOARD FEEDER SIZE.
- 29. USE CARE IN REMOVING FEEDER CONDUITS, AND FEEDERS INDICATED TO BE REUSED.
 WHERE CONDUITS AND CONDUIT COUPLINGS, LOCKNUTS, BUSHINGS AND FITTINGS ARE
 CALLED FOR TO RE-USED CONTRACTOR SHALL LUBRICATE AND TORQUE PRIOR TO REUSING
 FOR NEW FEEDERS.
- 30. BE RESPONSIBLE FOR THE DELIVER, RIGGING AND PLACEMENT OF ALL ELECTRICAL EQUIPMENT. ALL COSTS ASSOCIATED WITH DELIVERY AND RIGGINGS OF EQUIPMENT SHALL BE INCLUDED IN CONTRACTOR'S BID PRICE.
- 31. PROVIDE LOCKOUT/TAGOUT PROCEDURE, FEATURES AND PRACTICES TO PREVENT ALL PERSONNEL INCLUDING FACULTY STAFF FROM EXPOSURE TO HAZARDOUS ENERGY AS REQUIRED FOR OSHA TITLE 29 CODE OF FEDERAL REGULATIONS.

FIRST FLOOR



BASEMENT

PART FIRE ALARM RISER DIAGRAM

DEMOLITION NOTES

- 1. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, STORAGE FACILITIES, SERVICES AND SUPERVISION NECESSARY FOR THE COMPLETE AND SATISFACTORY DEMOLITION WORK AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. DEMOLITION SHALL INCLUDED, BUT NOT BE LIMITED TO:
 - a. REMOVE EXISTING ELECTRICAL EQUIPMENT INSTALLATION, SUCH AS LIGHTING FIXTURES, SWITCHES, RECEPTACLES. ETC. AS INDICATED ON DEMOLITION DRAWINGS.
 - b. DISCONNECT AND REMOVE CONDUIT AND WIRING DIRECTLY AFFECTED BY DEMOLITION AND FROM DEVICES TO NEAREST REMAINING ACTIVE JUNCTION BOX. FOR DEVICES SUPPLIED BY DEDICATED CIRCUITS, DISCONNECT AND REMOVE CONDUIT AND WIRING DIRECTLY AFFECTED BY DEMOLITION AND FROM DEVICES BACK TO SOURCE.
 - c. NO DISRUPTION OF OPERATION OF OTHER EXISTING AREA/SPACE SHALL BE TOLERATED.
 - d. OBTAIN OWNERS AUTHORITY'S APPROVAL PRIOR TO SHUT DOWN OF ANY EXISTING ELECTRICAL PANEL. PROVIDE TEMPORARY POWER AND LIGHTING AS REQUIRED DURING POWER SHUTDOWN.
 - e. CUT AND CAP FLUSH WITH FLOOR OR CEILING ALL ABANDONED STUBS AND PROVIDE NECESSARY PATCHING WHERE REQUIRED.
- THE BUILDING FIRE ALARM SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIMES (BEFORE, DURING, AND AFTER DEMOLITION AND/OR CONSTRUCTION). ALL FIRE ALARM DEVICES SHALL REMAIN IN PLACE DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION, UON ON PLANS. TEMPORARILY, SUPPORT ALL DEVICES LOCATED ON WALLS OR CEILINGS TO BE DEMOLISHED.
- PRIOR TO COMMENCEMENT OF DEMOLITION, RETAIN THE SERVICES OF THE CAMPUS' FIRE ALARM MAINTENANCE VENDOR WHO SHALL PROVIDE AN AUDIT OF ALL FIRE ALARM DEVICES IN AREA OF WORK TO DETERMINE THE EXISTING CONDITION OF THE SYSTEM. ANY DAMAGE INCURRED DURING CONSTRUCTION WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR. VENDOR SHALL ALSO PROVIDE SUMMARY OF ALL SYSTEM TROUBLES AND CABLE FAULTS/GROUNDS.
- THE EXISTING IT CABLING ABOVE THE HUNG CEILINGS THROUGHOUT THE BUILDING IS NOT WITHIN THIS SCOPE OF WORK. THE COLLEGE SHALL HIRE A SEPARATE VENDOR TO TEST AND PROVIDE A REPORT OF THE STATUS OF EXISTING IT CABLING PRIOR TO THE COMMENCEMENT OF DEMOLITION. ONCE CONSTRUCTION IS COMPLETE IF THERE ARE ISSUES WITH THE EXISTING IT CABLING THAT WERE NOT THERE BEFORE, OR IF THERE IS ANY DAMAGE INCURRED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT.
- 5. ALL POWER WIRING IN THE AREA OF WORK TO BE DEMOLISHED SHALL BE THOROUGHLY TRACED OUT TO DETERMINE THE DEVICES BEING FED FROM IT, ALL OBSOLETE WIRING AND CONDUIT SHALL BE REMOVED BACK TO THEIR RESPECTIVE PANELS UPON COMPLETION OF DEMOLITION. REFER TO E-1000S SERIES DRAWINGS FOR EXISTING PANEL LOCATIONS AND E-6000S SERIES DRAWINGS FOR EXISTING PANEL SCHEDULES.
- 6. MAINTAIN CONTINUITY OF SERVICE ON ALL CIRCUITS AFFECTED BY THIS DEMOLITION. WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT BE REVISED, DISCONNECTED, OR REMOVED, IT SHALL BE UNDERSTOOD THAT THE CIRCUIT SHALL BE RECONNECTED AND SERVICE REESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT AFFECTED BY THIS ALTERATION.
- . WHERE ELECTRICAL SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER AREAS OF THE FACILITIES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEMS RESTORED TO NORMAL OPERATION.
- 8. IN THE PROCESS OF REMOVING WIRING DEVICES, LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT AND MATERIALS, EXERCISE EXTREME CAUTION TO PREVENT DAMAGE TO ARCHITECTURAL SURFACES AND MATERIALS WHICH ARE TO REMAIN, INCLUDING WALLS, FLOORS, CEILINGS, WINDOWS, DOORS, MOLDINGS, STRUCTURAL MEMBERS, ETC. THE COST TO REPAIR OR REPLACE ANY MATERIAL DEEMED BY THE ARCHITECT TO HAVE BEEN UNDULY DAMAGED BY THIS CONTRACTOR DURING DEMOLITION OR CONSTRUCTION SHALL BE PAID BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

NOTES:

- 1. FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE AND DRAWING LIST, SEE DRAWING E-001.00.
- INSTALL STROBE(S) AND/OR SPEAKER/STROBES COMBINATION NOTIFICATION DEVICES AT 80" ABOVE FINISHED FLOOR (AFF).
- 3. INSULATE SHIELD AND DRAIN WIRE AS INDICATED ON TYPICAL SHIELD/DRAIN INSULATING METHOD
- 4. SHIELD MUST BE CONTINUOUS AND INSULATED FROM BOXES, CONDUITS, ETC.
- 5. SHIELDED CABLE MUST BE USED ON ALL STROBE CIRCUITS.
- 6. UNSHIELDED CABLE MUST BE USED ON ALL SPEAKER CIRCUITS.
- 7. MULTI-PAIR CABLE IS NOT APPROVED FOR USE. ALL CIRCUITS MUST BE RUN IN INDIVIDUAL PAIR CABLE ASSEMBLIES.
- ALL OPEN AREA'S ARE DEFINED AS ALL AREA'S WITHOUT SUSPENDED CEILING ie: MER'S, EMR'S, PUMP ROOMS, ELECTRICAL ROOMS, FAN ROOMS, WORK ROOM, ETC.
- 9. ALL FIRE ALARM CABLING SHALL BE RUN IN 3/4" EMT.
- . FOR FIRE ALARM WORK, INCLUDING BUT NOT LIMITED TO PRE-TESTING, PARTS, PROGRAMMING, TESTING, ETC., CONTACT BUILDING FIRE ALARM SYSTEM PROVIDER, ADT (BASIS OF DESIGN): NICHOLAS DELFICO AT (914) 418-9445 OR NICHOLASDELFICO@ADT.COM.

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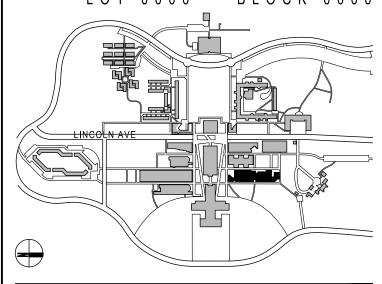
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ARCHITECT

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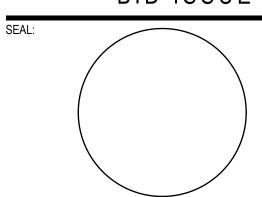


CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS & DIMENSIONS AND BE RESPONSIBLE FOR FIELD FIT AND QUANTITY OF WORK. NO ALLOWANCES SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

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BID ISSUE



2 02.20.2024 ISSUED FOR BID

NO DATE DESCRIPTION

ISSUES

SCALE: AS NOTED PROJECT NO: 10967 DATE:

12.04.2023 ISSUED FOR CLIENT APPROVAL

DRAWING TITLE:

| ELECTRICAL NOTES AND PART FIRE | ALARM RISER DIAGRAM

DRAWING NUMBER

DRAWING 2 OF 13

02-20-24

E-002.00

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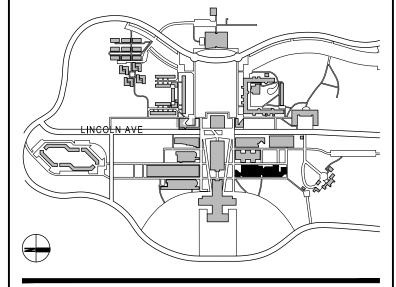
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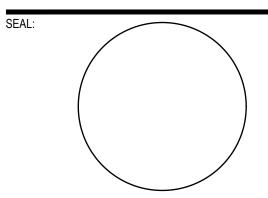


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12.04.2023 ISSUED FOR CLIENT APPROVAL

NO DATE DESCRIPTION

PROJECT NO: 10967 DATE: SCALE: AS NOTED

DRAWING TITLE:

ELECTRICAL BASEMENT PART PLAN - DEMOLITION

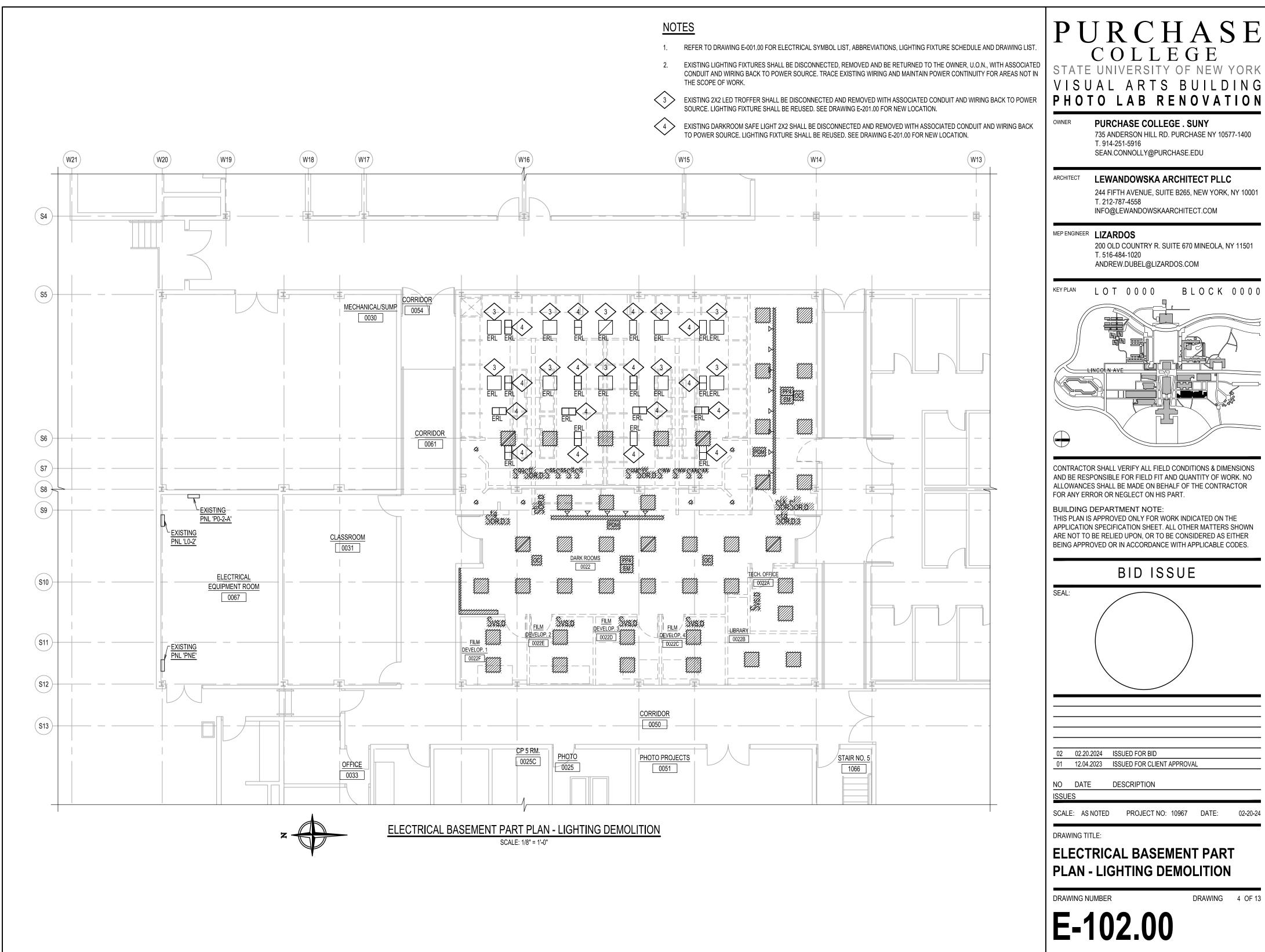
DRAWING NUMBER

DRAWING 3 OF 13

E-101.00

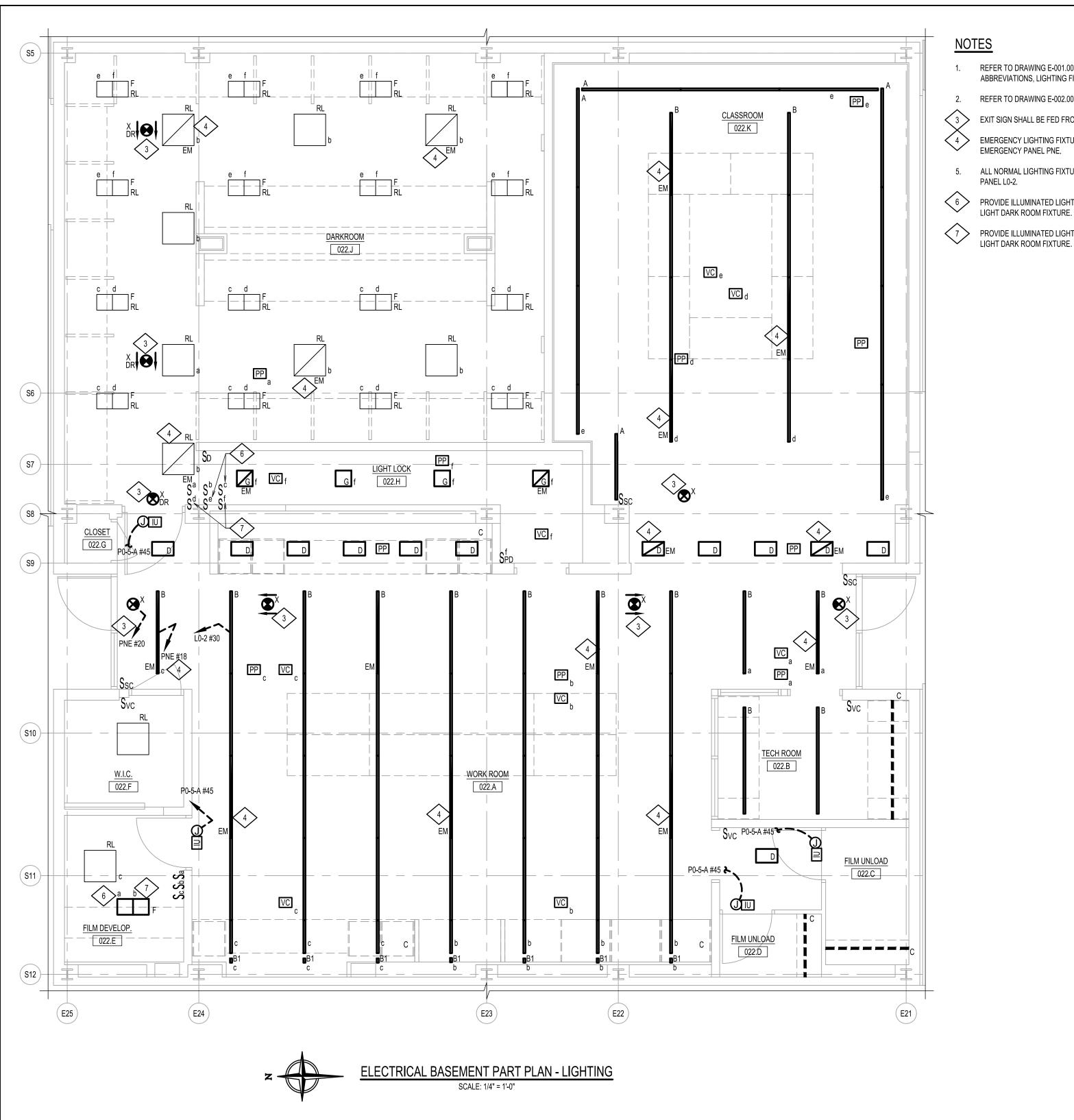
- EXISTING XEAV/XVAC UNITS SHALL BE RELOCATED WITH ITS CONDUIT AND WIRING. REFER TO MECHANICAL DRAWING M-101.00 FOR EXISTING
- DISCONNECT AND REMOVE EXISTING VAV'S. RETAIN CONDUIT AND WIRING FEEDING EXISTING TO BE DEMOLISHED VAV'S FOR NEW VAV'S.
- REFER TO E-102.00 FOR LIGHTING DEMOLITION WORK.

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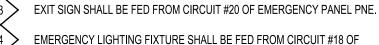
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DRAWING 4 OF 13



NOTES

- 1. REFER TO DRAWING E-001.00 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE AND DRAWING LIST.
- REFER TO DRAWING E-002.00 FOR GENERAL AND DEMOLITION NOTES.



EMERGENCY PANEL PNE. ALL NORMAL LIGHTING FIXTURES SHALL BE FED FROM CIRCUIT #30 OF

PROVIDE ILLUMINATED LIGHT SWITCH, COLOR RED TO CONTROL RED

PROVIDE ILLUMINATED LIGHT SWITCH, COLOR WHITE TO CONTROL RED LIGHT DARK ROOM FIXTURE.

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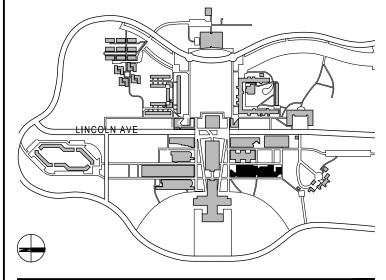
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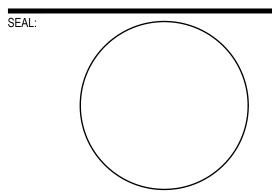


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BID ISSUE



02 02.20.2024 ISSUED FOR BID 12.04.2023 ISSUED FOR CLIENT APPROVAL

DESCRIPTION

PROJECT NO: 10967 DATE: SCALE: AS NOTED

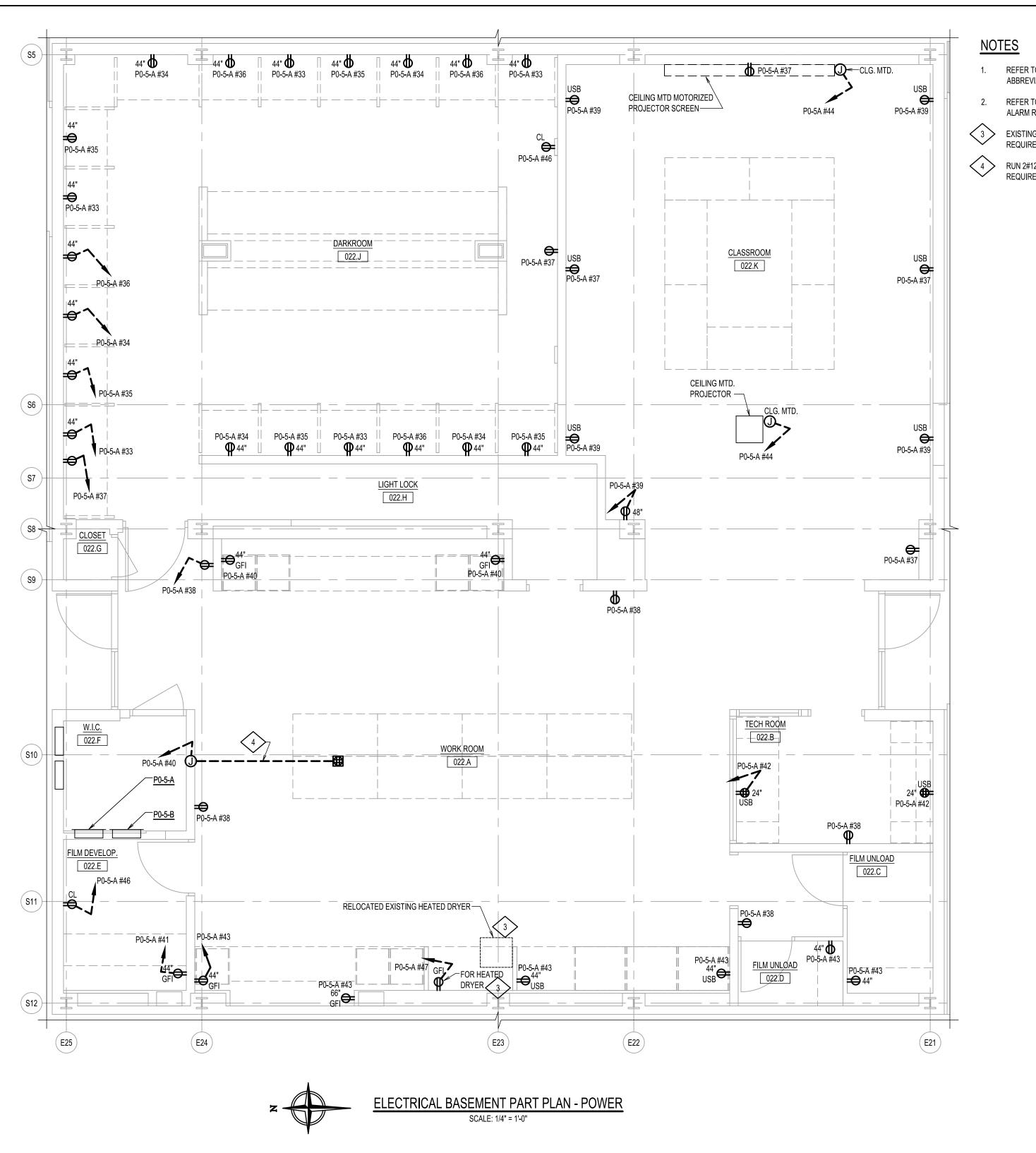
DRAWING TITLE:

ELECTRICAL BASEMENT PART PLAN - LIGHTING

DRAWING NUMBER

DRAWING 5 OF 13

E-201.00



- REFER TO DRAWING E-001.00 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE AND DRAWING LIST.
- REFER TO DRAWING E-002.00 FOR ELECTRICAL NOTES AND PART FIRE ALARM RISER DIAGRAM.



EXISTING RELOCATED HEATED DRYER. COORDINATE POWER REQUIREMENT AND LOCATION IN THE FIELD.

RUN 2#12, #12G - 3/4" CONDUIT FOR POWER. TRENCH FLOOR AS REQUIRED, AND FINISH PATCHING & PAINTING.

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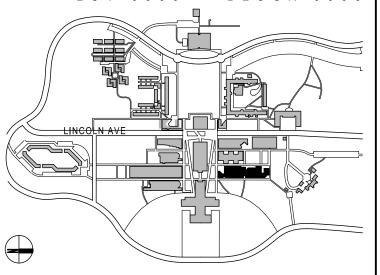
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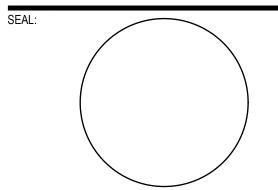


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BID ISSUE



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DESCRIPTION NO DATE

SCALE: AS NOTED

PROJECT NO: 10967 DATE:

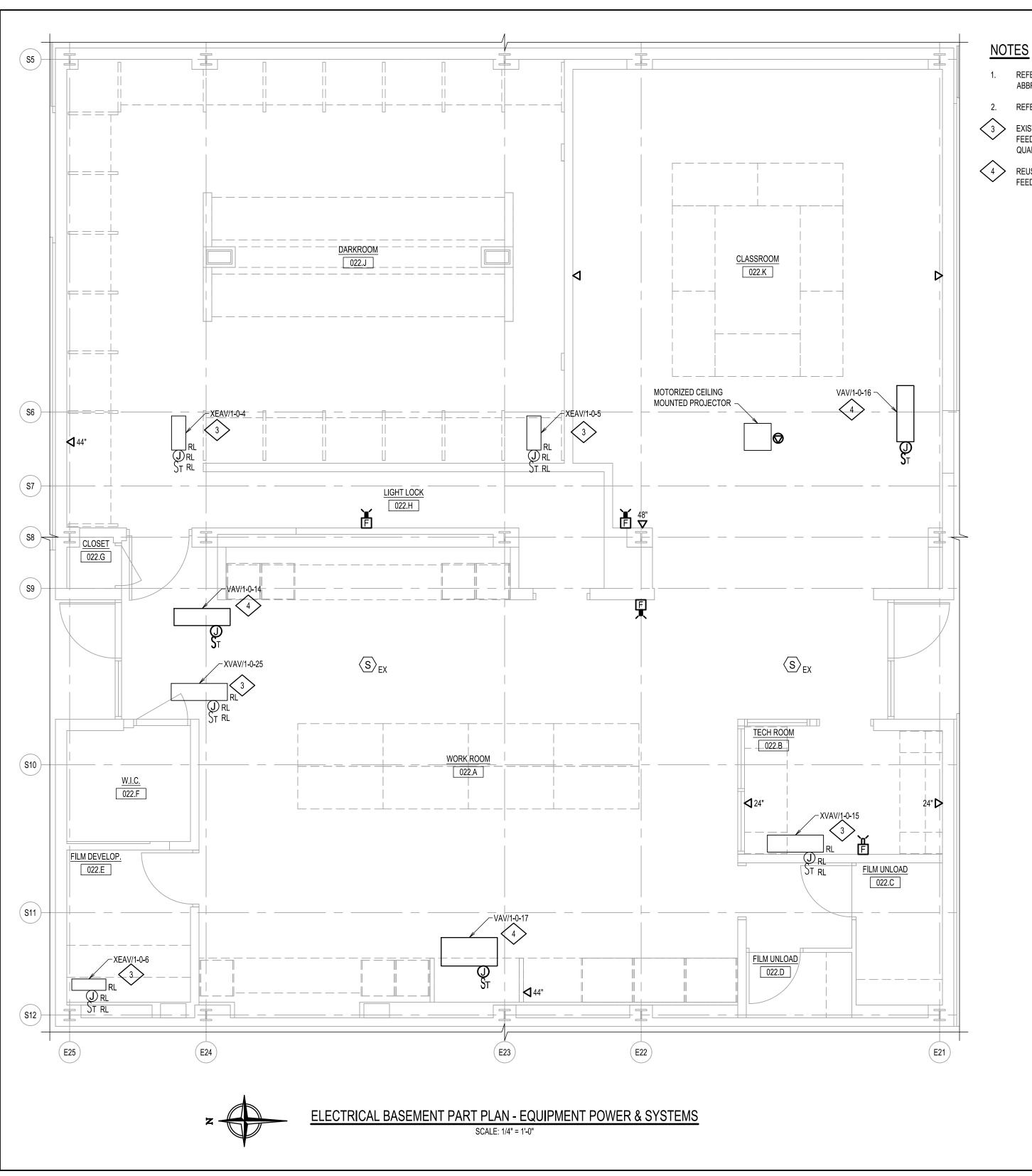
DRAWING TITLE:

ELECTRICAL BASEMENT PART PLAN - POWER

DRAWING NUMBER

DRAWING

E-301.00



- 1. REFER TO DRAWING E-001.00 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE AND DRAWING LIST.
- REFER TO DRAWING E-002.00 FOR GENERAL AND DEMOLITION NOTES.

EXISTING RELOCATED VAV BOX. REUSE EXISTING WIRING AND CONDUIT FEEDING THE VAV. REFER TO MECHANICAL DRAWING M-201 FOR EXACT QUANTITY & LOCATION. EXTEND CONDUIT AND WIRING AS REQUIRED.

REUSE CONDUIT AND WIRING OF EXISTING TO BE DEMOLISHED VAV AND FEED NEW VAV. EXTEND CONDUIT AND WIRING AS REQUIRED.

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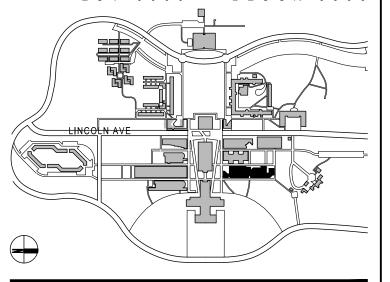
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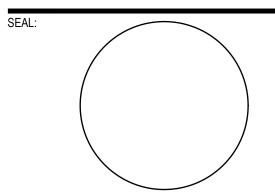


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DESCRIPTION NO DATE

SCALE: AS NOTED

PROJECT NO: 10967 DATE:

DRAWING TITLE:

ELECTRICAL

BASEMENT PART PLAN -

EQUIPMENT POWER & SYSTEM

E-401.00

4 5

2

1/2 1

EX	EXIST. PANEL: <u>L0-2</u>					<u> </u>	OCATION:	BASEMEN	IT MAIN EL	ECTRICAL	ROOM 003	35		SECTION.		<u>1</u>			
VOLTS:	<u>S:</u> 277/480V <u>PHASE:</u> 3		IASE: 3		<u>.SE:</u> 3		WIRE: 4		225A	A <u>MCB:</u> 225A			MINIMUM INTERRUPTING RATING: 22KAIC				MOUNTING:	SURFACE	
							PE	R PHASE(VA)										
CKT NO.	TRIP		EQUIPMENT	LTG.	APP.	RECP	А	В	С	RECP	APP.	LTG.		EQUIPMENT		TRIP	CKT NO.		
1	20	EXISTING LIG	HTS - ROOMS 30, 31	790			790									20	2		
3	20		HTS - ROOMS 21S, 21T, 21U , (, 25, 25A, 25B, 25C, 25D, 25E,	1480				1480					EXISTING EXH	IAUST FAN		20	4		
5	20	EXISTING LIG 22C, 22D, 22E	HTS - ROOMS 22, 22A, 22B, , 22F, 22G	1510					1510							20	6		
7	20	EXISTING LOA	AD.				####						EXISTING LIGH	HTS - CORRIDO	R	20	8		
9	20	EXISTING RO	OMS 27, 28, CORRIDOR					###					EXISTING LIGH	HTS - CORRIDO)R	20	10		
11	20	EXISTING FAC	C, STORAGE, STUDENT						###				EXISTING LIGH	HTS - CORRIDO)R	20	12		
13	20	EXISTING ME	R/ELECTRICAL ROOM				####									20	14		
15	20	EXISTING ME	R/ELECTRICAL ROOM					####					EXISTING EF-1E			20	16		
17	20	EXISTING ME	R/ELECTRICAL ROOM						####							20	18		
19	20	LIGHTS - ROC	DM 10	530			1170					640	LIGHTS - ROO	M 13, 13A, 13B,	13C	20	20		
21	20	LIGHTS - ROC	DMS 11, 12	870				870					SPARE			20	22		
23	20	LIGHTS - ROC	DM 9	670					1470			800	TRACK LIGHTS	S - ROOM 31, 2	2, 22B	20	24		
25	20	LIGHTS - COR	RRIDORS 44, 46, 48, 50, 54, 61	500			1300					800	TRACK LIGHTS	S - ROOM GDR	R, 9	20	26		
27	20		MS 21, 21A, 21B, 21C, 21D, , 21H, 21I, 21J, 21K, 21M, 21N, 0, 21R, 28	1450				2250				800	TRACK LIGHTS	S - ROOM 12, 1	2A	20	28		
29	20	SPARE							3810			3810	LTG - ROOMS	022.A THRU 02	2.K	20	30		
31	20	SPARE					###						SPARE			20	32		
33	20	SPARE						###					SPARE			20	34		
35	20	SPARE							###				SPARE			20	36		
37							###						SPARE		20	38			
39	100	TEMPORARY CONSTRUCTI						###					SPARE			20	40		
41			ON THURELY						###				SPARE			20	42		
RECEP. LOA		10000	TOTAL LIGHTING IN VA AT 125% DEM=	9750	1	VA BY ASE	3260	4600	6790			EMAND IN AMP'S.	147	750	X 1.25 S	PARE	18438		
RECEP. LO		-5000	TOTAL MECH/APP AT 100% DEM IN VA=	###		NNECTED IN VA=	14650					LOAD IN ERES	5	0	TOTAL LOAD IN KVA		18		

NOTES

- 1. REFER TO DRAWING E-001.00 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE AND DRAWING LIST.
- 2. REFER TO DRAWING E-002.00 FOR ELECTRICAL NOTES AND PART FIRE ALARM RISER DIAGRAM.

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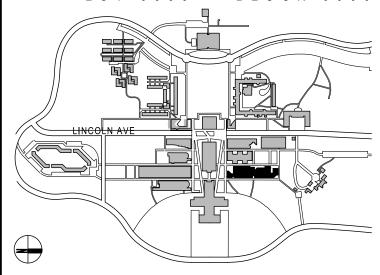
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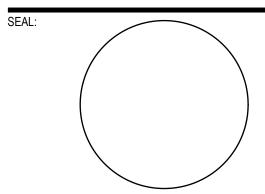


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BID ISSUE



 02
 02.20.2024
 ISSUED FOR BID

 01
 12.04.2023
 ISSUED FOR CLIENT APPROVAL

NO DATE DESCRIPTION

ISSUES

SCALE: NONE PROJECT NO: 10967 DATE:

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES (SHEET 1 OF 3)

DRAWING NUMBER

DRAWING 8 OF 13

E-501.00

EXIS	EXISTING PANEL: <u>P0-5-A</u>			<u>L</u>	OCATION:	BASEMEN	IT UNDERG	GRAD DARI	KROOM 00	022	SECTION.		1				
VOLTS:	120/208	PHASE:	3	WIRE:	. 4	BUS: 225A MCB: 225A MINIMUM INTERRUPTING MOUNTING: S			SURFACE								
							PE	R PHASE(\	/A)								
CKT NO.	TRIP		EQUIPMENT	LTG.	APP.	RECP	A	В	С	RECP	APP.	LTG.		EQUIPMENT		TRIP	CKT NO.
1							###						EXISTING PLU	G MOLD DARK RO	OM	20	2
3	60	EXISTING ELE	ECTRIC WATER HEATER					###					EXISTING PLU	G MOLD DARK RO	OM	20	4
5									###				EXISTING PLU	G MOLD DARK RO	ОМ	20	6
7	20	EXISTING ENI	_ARGER STATIONS				####						EXISTING PLU	G MOLD DARK RO	ОМ	20	8
9	20	EXISTING ENI	ARGER STATIONS					###					5.//o.T.N.O.I. O.A	_		00	10
11									###				EXISTING LOA	D		20	12
13	30	EXISTING EXI	STING LOAD				####						EXISTING REC	- FILM DEVELOPM	1ENT	20	14
15	20	EXISTING PLU	JG MOLD					####					EXISTING REC	- FILM DEVELOPM	1ENT	20	16
17	20	EXISTING PLU	JG MOLD DARK ROOM						####				EXISTING LOA	D		20	18
19	20	EXISTING PLU	JG MOLD DARK ROOM				####						EXISTING LOA	D		20	20
21	20	EXISTING PLU	JG MOLD DARK ROOM					###					EXISTING PLU	G MOLD DARK RO	OM	20	22
23	20	EXISTING PLU	JG MOLD DARK ROOM						###				EXISTING PLU	G MOLD DARK MO	LD	20	24
25	20	EXISTING ENI	_ARGER STATION				###						EXISTING PLU	G MOLD, PHOTO P	ROJECTS	20	26
27	20	EXISTING ENI	_ARGER STATION					###					EXISTING PLU	GMOLD, PHOTO PI	ROJECTS	20	28
29	20	EXISTING PLU	JGMOLD, PHOTO PROJECTS						###				EXISTING TRA	CK LIGHTING ROO	M 0022	20	30
31	20	VAV ROOM 00 VAV-1-0-14, V	022, 0022E, 0022F - EAV-1-0-6, AV-1-0-17		300		900				600		POWER CONN SALVAGED SA	ECTION FOR EXIS	TING	20	32
33	20	RECEPT. (5) -	DARK ROOM			900		1800		900			RECEPT. (5) - [DARK ROOM		20	34
35	20	RECEPT. (5) -	DARK ROOM			900			1620	720			RECEPT. (4) - [- DARK ROOM		20	36
37	20	RECEPT. (6) -	DARK RM & CLASSROOM			1080	1980			900			RECEPT. (4) - \	WORK ROOM 20		20	38
39	20	RECEPT. (5) -	CLASSROOM			900		1620		720			RECEPT. (4) - \	WORK ROOM		20	40
41	20	RECEPT. (1) -	FILM RM			180			900	720			QUAD (2) - TEC	CH RM		20	42
43	20	RECEPT. (6) -	WORK RM			1080	2080			1000			PROJECTOR &	SCREEN - CLASS	ROOM	20	44
45	20	J.BOX (4) - (IN	USE) -WORK RM			40		1040		1000			CLOCK RECEP	PTACLES		20	46
47	20	HEATED DRY	ER		1000				1000				SPARE			20	48
49	20	EAV/1-0-10			400		400						SPARE			20	50
51	20	SPARE						###					SPARE			20	52
53	20	SPARE							###				SPARE			20	54
55	20	SPARE					###						SPARE			20	56
57	20	SPARE						###					SPARE			20	58
59	20	SPARE							###				SPARE			20	60
61	20	SPARE					###						SPARE			20	62
63	20	SPARE						###					SPARE			20	64
65	20	SPARE							###				SPARE		20	66	
67	20	SPARE					15000				15000					68	
69	20	SPARE						15000			15000		PANEL <u>P0-5-B</u> 125		70		
71	20	SPARE							15000		15000		 		72		
RECEP. LOA		10000	TOTAL LIGHTING IN VA AT 125% DEM=	####		. VA BY ASE	20360	19460	18520			EMAND IN AMP'S.	333	380	X 1.25 SP.	ARE	41725
RECEP. LC		-5000	TOTAL MECH/APP AT 100% DEM IN VA=	CH/APP AT 100% 28380 TOT CONNECTED 58340 TOTAL LOAD IN 112 TOTAL LOAD 42				42									

NOTES

- 1. REFER TO DRAWING E-001.00 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE AND DRAWING LIST.
- 2. REFER TO DRAWING E-002.00 FOR ELECTRICAL NOTES AND PART FIRE ALARM RISER DIAGRAM.

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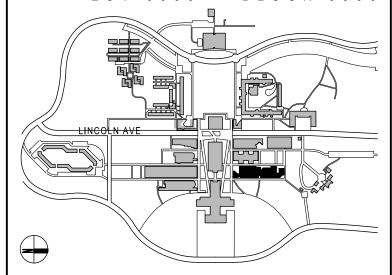
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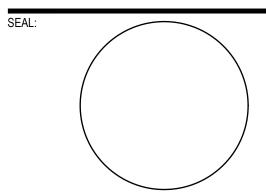


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BID ISSUE



02.20.2024 ISSUED FOR BID 12.04.2023 ISSUED FOR CLIENT APPROVAL

NO DATE DESCRIPTION

SCALE: NONE PROJECT NO: 10967 DATE:

DRAWING TITLE:

ELECTRICAL PANEL SCHEDULES (SHEET 2 OF 3)

DRAWING NUMBER

DRAWING 9 OF 13

E-502.00

MAIN CIRCUIT BREAKER WILL BE ADJUSTED DOWN TO 100A.

PNE (EMERGENCY) **EXISTING PANEL:** SECTION. LOCATION: BASEMENT MAIN ELECTRICAL ROOM 0035 MINIMUM INTERRUPTING MOUNTING: SURFACE VOLTS: 277/480V <u>WIRE:</u> 4 BUS: 225A MCB: 225A PHASE: 3 RATING: 22KAIC PER PHASE(VA) CKT NO. TRIP **EQUIPMENT** LTG. APP. RECP С **RECP** APP. LTG. **EQUIPMENT** CKT NO. EXISTING EM LITES MER ### 1 20 2 EXISTING XFMR FIRE ALARM 20 4 3 20 EXISTING LOAD ### 5 20 EXISTING LOAD ### EXISTING LOAD 20 6 7 #### 8 9 EXISTING PANEL ELS ### EXISTING PANEL ELN 50 10 11 ### 12 LIGHTS - ROOMS 9, 10, 12, 13, 21, 22, 22G, 400 13 20 FIRE SMOKE DAMPERS 1910 1510 20 14 31, 44, 46, 48, 50, 54, 61 15 20 SPARE 70 70 EXIT SIGNS 20 16 17 20 **VESTIBULE LIGHTS** 50 978 LTG - ROOMS 022.A THRU 022.K 20 18 19 20 SPARE 40 40 EXIT SIGNS - ROOMS 022.A THRU 022.K 20 20 21 SPARE SPARE 20 22 20 23 20 SPARE SPARE 20 24 25 22160 20 26 22160 SPARE TEMPORARY FEED TO T0-3 FOR IT RISER 27 22160 22160 SPARE 20 28 22160 22160 30 29 SPARE 20 RECEP. LOAD IN VA UP TOTAL VA BY TOTAL LIGHTING IN VA AT TOTAL DEMAND IN 24110 22230 23138 10000 45158 X 1.25 SPARE 56448 TO 10.000VA AT 100%= 125% DEM= PHASE VOLT AMP'S. RECEP. LOAD IN VA TOTAL MECH/APP AT 100% TOT CONNECTED TOTAL LOAD IN TOTAL LOAD 40158 69478 152 56 OVER 10,000VA AT 50%= LOAD IN VA= **AMPERES** DEM IN VA= IN KVA NOTES:

1) FACTORY PRE-WIRED SURGE PROTECTION. 2) MAIN CIRCUIT BREAKER WILL BE ADJUSTABLE, ONCE TEMPORARY FEED TO IT RISER IS NO LONGER NEEDED, BREAKER IN POSITIONS 21,23, AND 25 WILL BE MADE SPARE, AND THE

NOTES

- 1. REFER TO DRAWING E-001.00 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE AND DRAWING LIST.
- REFER TO DRAWING E-002.00 FOR ELECTRICAL NOTES AND PART FIRE ALARM RISER DIAGRAM.

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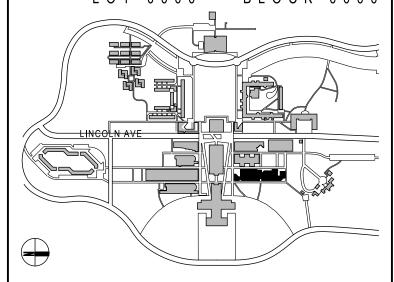
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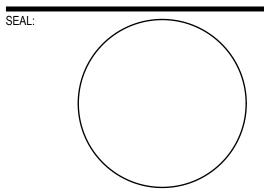


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ELECTRICAL PANEL SCHEDULES (SHEET 3 OF 3)

DRAWING NUMBER

DRAWING 10 OF 13

E-503.00

NOTES:

EXIST. S-BEAM

(BEYOND)

EXIST. CEILING

STEEL BEAM CLAMP;

UNISTRUT P2824 OR APPROVED EQUAL

THREADED

HANGER ROD

- FOR INTERIOR WORK ONLY.
- PROVIDE AND INSTALL CONDUIT SUPPORTS 10'-0" ON CENTER (MIN.) OR AS REQUIRED.

TYPICAL CONDUIT HANGER SUPPORT

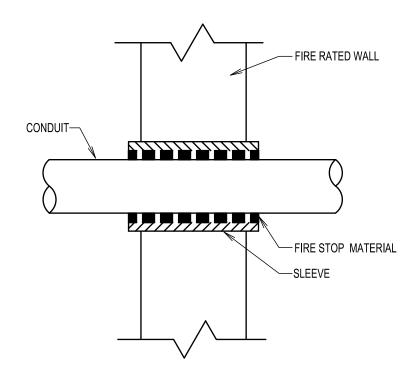
COORDINATE IN

FIELD

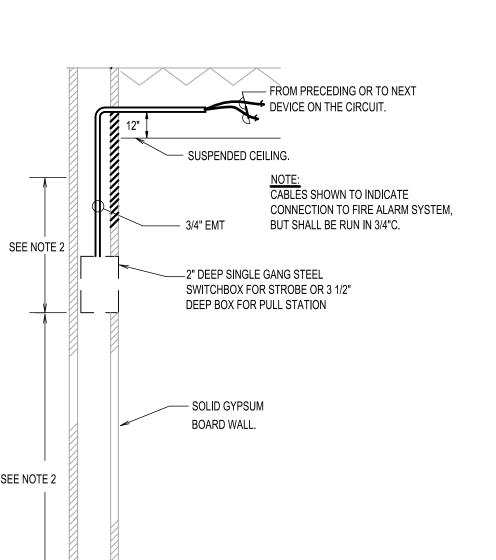
CONDUIT

- CONDUIT CLAMP

ROD



CONDUIT PENETRATION THRU FIRE RATED WALL



NOTES:

CHANNEL (UNISTRUT) ADEQUATELY SIZED FOR SUPPORTED LOAD -

PROVIDE METAL FRAMING

- 1. FOR INTERIOR WORK ONLY.
- 2. PROVIDE AND INSTALL CONDUIT SUPPORTS 10'-0" ON CENTER (MIN.) OR AS REQUIRED.

CONDUIT SUPPORT DETAIL (PERPENDICULAR TO BEAMS)

NOTES:

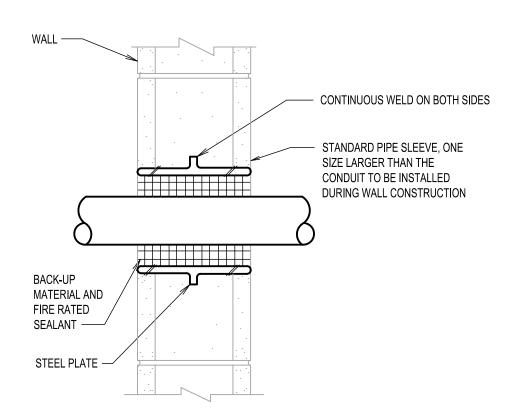
- FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, LIGHTING FIXTURE SCHEDULE AND DRAWING LIST, SEE DRAWING
- INSTALL STROBES AND/OR SPEAKER/STROBE COMBINATION NOTIFICATION DEVICES AT 80" ABOVE FINISHED FLOOR (AFF).
- INSTALL THE FIRE ALARM DEVICE AT 80" ABOVE FINISHED FLOOR (AFF).
- INSULATE SHIELD AND DRAIN WIRE AS INDICATED ON TYPICAL SHIELD/DRAIN INSULATING METHOD
- SHIELD MUST BE CONTINUOUS AND INSULATED FROM BOXES, CONDUITS, ETC.
- SHIELDED CABLE MUST BE USED ON ALL STROBE CIRCUITS.
- UNSHIELDED CABLE MUST BE USED ON ALL SPEAKER CIRCUITS.

SEE NOTE 2 -FINISHED FLOOR.

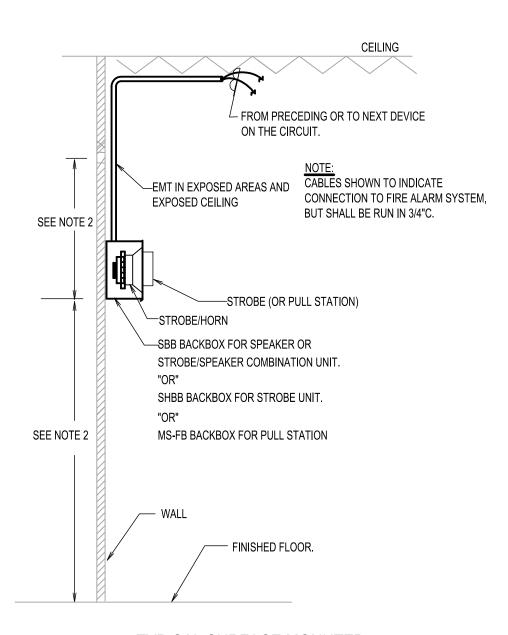
TYPICAL RECESSED MOUNTED STROBE, PULL STATION **INSTALLATION DETAIL**

NOT TO SCALE

- MULTI-PAIR CABLE IS NOT APPROVED FOR USE. ALL CIRCUITS MUST BE RUN IN INDIVIDUAL PAIR CABLE
- ALL OPEN AREA'S ARE DEFINED AS ALL AREA'S WITHOUT SUSPENDED CEILING IE: MER'S, EMR'S, PUMP ROOMS, ELECTRICAL ROOMS, FAN ROOMS, WORK ROOM, ETC.
- 10. ALL FIRE ALARM CABLING SHALL BE RUN IN 3/4" EMT.
- FOR FIRE ALARM WORK, INCLUDING BUT NOT LIMITED TO PRE-TESTING, PARTS, PROGRAMMING, TESTNIG, ETC., CONTACT BUILDING FIRE ALARM SYSTEM PROVIDER, ADT (BASIS OF DESIGN): NICHOLAS DELFICO AT (914) 418-9445 OR NICHOLASDELFICO@ADT.COM.



CONDUIT INTERIOR WALL PENETRATION



TYPICAL SURFACE MOUNTED (UNFINISHED AREA) PULL STATION, STROBE, SPEAKER OR COMBINATION INSTALLATION DETAIL

NOT TO SCALE

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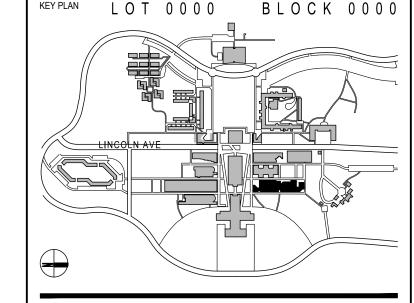
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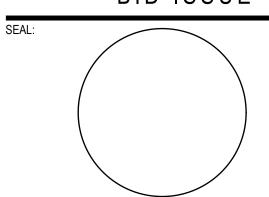


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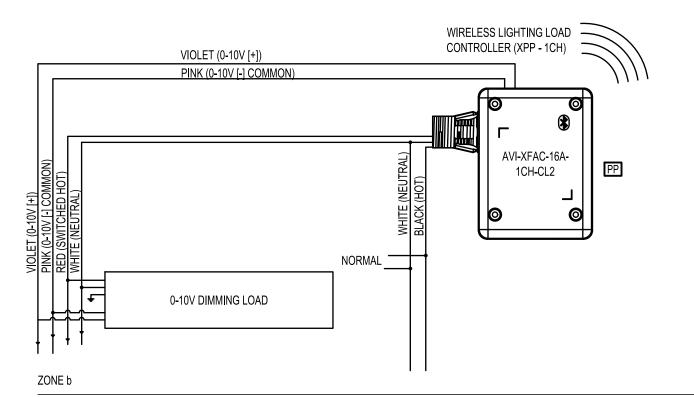
ELECTRICAL DETAILS

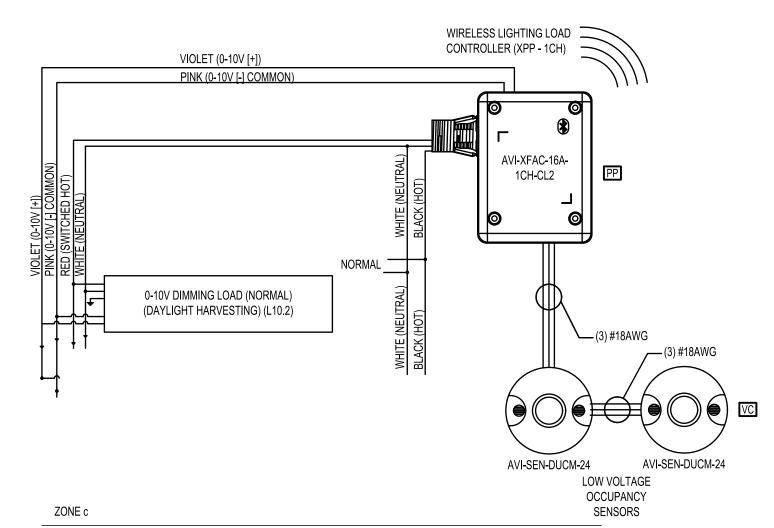
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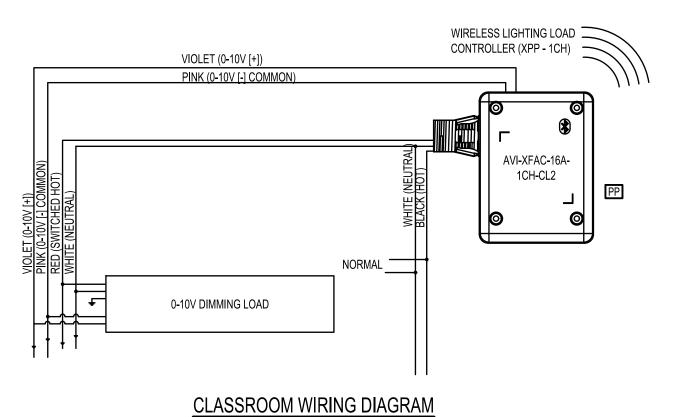
DRAWING 11 OF 13

E-601.00

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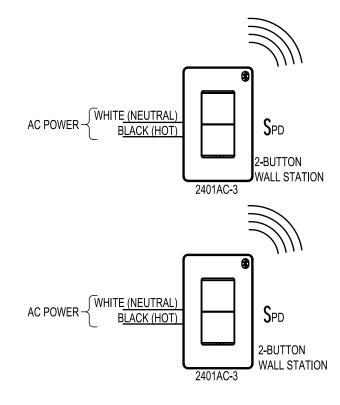


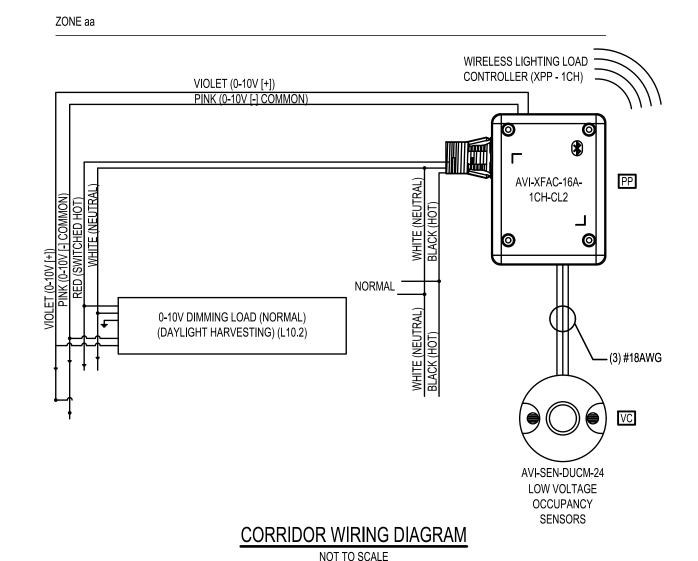


NOT TO SCALE

NOTES:

- 1. ZONAL CONTROLLERS, PLUG LOAD CONTROLLERS, IN-FIXTURE CONTROL MODULES, SENSORS, AND WALL STATIONS QUANTITIES PER CONTROL ZONE REQUIREMENTS. PLEASE SEE DEVICE STAMPED LAYOUT FOR MORE INFORMATION.
- 2. AVI-DC-PIR SENSOR INCLUDES PHOTOCELL FUNCTIONALITY, TO BE USED FOR DAYLIGHTING CONTROL. PROVIDE AS REQUIRED PER DAYLIGHTING ZONE. XPP/SIM CAN SUPPORT UP TO THREE (3) DIRECT CONNECT MULTITECH
- 3. COORDINATE WITH LIGHTING CONTROL VENDOR STAN DEUTSCH ASSOCIATES. CONTACT: OLENA ZAVRAGINA; TEL: (718) 361-9150 x 265; EMAIL: olena.zavragina@sdalighting.com.





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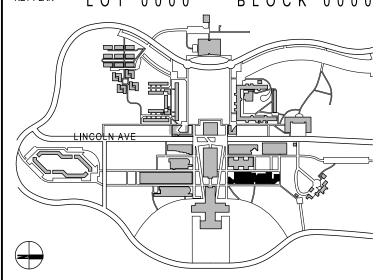
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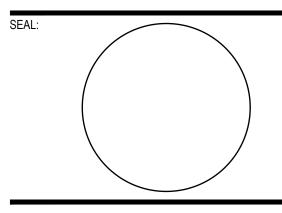


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PROJECT NO: 10967 SCALE: AS NOTED

DRAWING TITLE:

ELECTRICAL LIGHTING CONTROL DETAILS (SHEET 1 OF 2)

DRAWING NUMBER

DRAWING 12 OF 13

DATE:

E-602.00

- ZONAL CONTROLLERS, PLUG LOAD CONTROLLERS, IN-FIXTURE CONTROL MODULES, SENSORS, AND WALL STATIONS QUANTITIES PER CONTROL ZONE REQUIREMENTS. PLEASE SEE DEVICE STAMPED LAYOUT FOR MORE INFORMATION.
- AVI-DC-PIR SENSOR INCLUDES PHOTOCELL FUNCTIONALITY, TO BE USED FOR DAYLIGHTING CONTROL. PROVIDE AS REQUIRED PER DAYLIGHTING ZONE. XPP/SIM CAN SUPPORT UP TO THREE (3) DIRECT CONNECT MULTITECH SENSORS.
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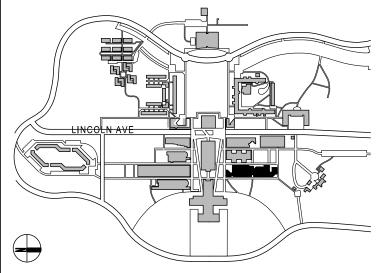
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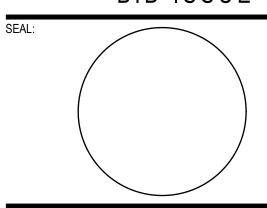


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ELECTRICAL LIGHTING CONTROL DETAILS (SHEET 2 OF 2)

DRAWING NUMBER

DRAWING 13 OF 13

E-603.00

- 1. EXISTING PIPING SERVING BASEMENT LEVEL TO REMAIN IN PLACE, TO BE RELOCATED AT CONSTRUCTION PHASE. TAKE CARE TO KEEP PIPING INTACT DURING DEMOLITION.
- 2. EACH BIDDER ARE ENCOURAGED TO VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES AND EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.
- 3. PROVIDE DEMOLITION FOR WORK AS SHOWN ON DRAWINGS OR DESCRIBED HEREIN. IF ASBESTOS INSULATION IS PRESENT, INFORM THE OWNER IN WRITING SO THAT SUCH REMOVAL CAN BE CARRIED OUT BY QUALIFIED PERSONNEL HIRED BY THE OWNER. DO NOT COMMENCE DEMOLITION UNTIL SUCH WORK HAS BEEN COMPLETED.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR IDENTIFICATION OF FIXTURES AND EQUIPMENT TO BE REMOVED.
- 5. ALL PIPING FROM FIXTURES AND EQUIPMENT TO BE REMOVED SHALL BE CAPPED BACK AT STACK AND RISERS. IN NO CASE SHALL DEAD ENDS REMAIN ON SANITARY PIPING. DEAD ENDS SHALL NOT EXCEED A MAXIMUM OF 2'-0".
- 6. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED ON THE JOB.
- 7. NO REMOVED EXISTING PIPING SHALL BE REUSED UNLESS OTHERWISE INDICATED.
- 8. THE CONTRACTOR SHALL NOT INTERRUPT ANY OF THE SERVICES OF THE EXISTING BUILDING NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT THE EXPRESSED PERMISSION OF THE OWNER. SUCH INTERRUPTIONS AND INTERFERENCES SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE TIME SUITED BY THE OWNER.
- 9. WHERE THE WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, THEY SHALL BE MADE AT NIGHT OR AT TIMES AS WILL CAUSE THE LEAST INTERFERENCE WITH THE ESTABLISHED OPERATING ROUTINE OF THE BUILDING.
- 10. THE CONTRACTOR SHALL ARRANGE THE WORK CONTINUOUSLY AND TO ASSURE THAT SERVICES WILL BE SHUTDOWN AND CUT-INS DONE ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO EXISTING WORK.
- 11. THE CONTRACTOR SHALL COORDINATE/CONFIRM WITH THE CAMPUS ON HOW FAR IN ADVANCE THAT A WRITTEN NOTICE MUST BE SUBMITTED FOR ANY REQUESTED SHUTDOWNS.
- 12. ANY AND ALL REQUIRED DEMOLITION WORK TO BE PERFORMED ABOVE EXISTING SUSPENDED CEILINGS AND FURRED OUT WALLS SHALL BE DONE AT A TIME WHEN THE EXISTING CEILINGS AND FURRED OUT WALLS ARE REMOVED.
- 13. TO INSURE CONTINUOUS OPERATION, MAKE ALL NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. ALL COSTS RESULTING FROM TEMPORARY SHUTDOWNS SHALL BE BORNE BY THE CONTRACTOR.
- 14. ALL EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK
- 15. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

GENERAL PLUMBING NOTES:

- 1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
- 2. EXISTING PIPING ARRANGEMENTS ARE APPROXIMATE AND ARE SHOWN FOR ESTIMATING PURPOSES ONLY. CONTRACTOR MUST VERIFY EXACT LOCATIONS AND ROUTING PRIOR TO INSTALLATION OF NEW WORK.
- 3. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS ON THE JOB SITE AND MAINTAIN REQUIRED CEILING HEIGHTS AND CONDITIONS.
- 4. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, SERVICES, LABOR AND TESTS NECESSARY FOR COMPLETE EXECUTION OF ALL WORK.
- 5. MATERIALS, EQUIPMENT AND SYSTEMS INSTALLED SHALL MEET ALL PERTINENT REQUIREMENTS OF NEW YORK CITY BUILDING CODES, NATIONAL FIRE PROTECTION ASSOCIATION, FEDERAL REGULATIONS, OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND ANY NATIONALLY RECOGNIZED APPROVAL AGENCIES AS WELL AS APPLICABLE LOCAL CODES AND REGULATIONS.
- 6. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND REPLACE ANY EXISTING SUSPENDED CEILINGS AND/OR FINISHES DAMAGED BY INSTALLATION OF PIPING UNDER CONTRACT.
- 7. ALL WORK IN THE SUB-BASEMENT HUNG CEILINGS SHALL BE PERFORMED AFTER HOURS OR ON PREMIUM TIME AS SCHEDULED BY THE CONTRACTOR WITH HOSPITAL. THE CONTRACTOR SHALL COORDINATE THE EXACT WORK SCHEDULE WITH PRIOR TO STARTING WORK. IF NECESSARY THE WORK SHALL BE PHASED IN ORDER TO KEEP THE SUB-BASEMENT CORRIDORS REMAIN ACTIVE AT ALL TIMES.

	DRAWINGS LIST
P-001.00	PLUMBING LEGENDS, NOTES, ABBREVIATIONS AND SCHEDULES
P-101.00	PLUMBING BASEMENT LEVEL PART PLAN - DEMOLITION
P-201.00	PLUMBING BASEMENT LEVEL PART PLAN - DEMOLITION
P-301.00	PLUMBING RISER DIAGRAMS
P-401.00	PLUMBING DETAILS

PLUMBING INSULATION SCHEDULE

INSULATE THE FOLLOWING:

- 1. HOT WATER PIPING
- 2. COLD WATER PIPING
- 3. LAVATORY TRAP AND WATER SUPPLIES

INSULATION PRODUCTS AND INSTALLATION SHALL COMPLY WITH ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

HOT WATER PIPING INSULATION SHALL BE PREFORMED, SNAP-ON FIBERGLASS INSULATION WITH PAINTABLE WHITE KRAFT OR ALUMINUM FOIL JACKET.

DOMESTIC COLD WATER PIPING INSULATION SHALL BE SIMILAR TO HOT WATER WITH VAPOR BARRIER.

INSULATION THICKNESS SCHEDULE						
SERVICE	INSULATION THICKNESS FOR PIF	PE SIZES*				
SERVICE	1" AND LESS **	3" TO 4"				
DOMESTIC COLD WATER (CW)	1"	1"	1"			
DOMESTIC HOT WATER (HW)	1"	1"	1"			

- * BASIS RN4
- ** RUNOUTS AS DEFINED BY ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK
- STATE CAN BE 1/2" THICK UP TO 140° F. 3/4" OVER 140° F.
- *** INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER IN/H SFxF

		PLUMBING	G LEGEND		
SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	→ AW	ACID SOIL, WASTE PIPING	\		FLOW ARROW
	→ AW	ACID SOIL, WASTE PIPING UNDERSLAB	P		DROP
	- -	ACID VENT PIPING	4		SHUT-OFF VALVE
	→ cw	COLD WATER PIPING	I		STOP VALVE
	→ HW	HOT WATER PIPING	>		BREAK
	→ EX-AW	EXISTING ACID SOIL, WASTE PIPING	9		RISER
	EX-AW	EXISTING AW SOIL, WASTE PIPING UNDERSLAB	(СО	CLEANOUT
	- → EX-AV	EXISTING ACID VENT PIPING	•	CODP	CLEANOUT DECK PLATE
	→ cw	EXISTING COLD WATER PIPING	С		BOTTOM TAKE-OFF
	→ HW	EXISTING HOT WATER PIPING	Ą		AIR RELIEF VALVE
T//2, 44441		FIXTURE/PIPING TO BE REMOVED	•	ETR	EXISTING TO REMAIN
-	→	NEW CONNECTION TO EXISTING		VIF	VERIFY IN FIELD
٦		CAP			
	•	POINT OF DISCONNECTION			

	FIXTURE CONNECTION SCHEDULE								
TAG	ABBREV	DESCRIPTION	SOIL	VENT	COLD WTR	HOT WTR			
P-1	SK	SINK	2"	2"	1/2"	1/2"			
-	EW	EYEWASH/DRENCH	-	-	1/2"	1/2"			

	PLUMBING FIXTURE SCHEDULE						
DESIGNATION	FIXTURE	MODEL NUMBER	FAUCET	GPM	TRAP SIZE	CHAIR CARRIER SUPPORT	REMARKS
P-1	SINK	ARKAY SINK PAN MODEL #ES-30 x 72 x 6", 20 GUAGE, 316 STAINLESS STEEL, STAND MOUNTED	CHICAGO MANUAL FAUCET MODEL #445-DJ13-317XKABCP, WALL MOUNTED, AERATOR, WRISTBLADE HANDLES	2.2 GPM 10 GPM	1-1/2"x1-1/2"C.P. CAST BRASS "P" TRAP	STAND MOUNTED	PROVIDE HAWS EYE/FACE WASH MODEL #6710 DECK MOUNT, WITH TMV MODEL #9201EW, LAMINAR FLOW, TEMPERATURE SET @ 85 °F

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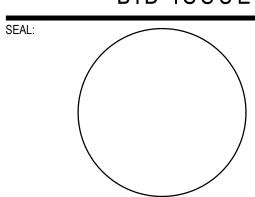
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BID ISSUE



02 02.02.2024 ISSUED FOR BID 1 12.04.2023 ISSUED FOR CLIENT APPROVAL

NO DATE DESCRIPTION

1550E5

SCALE: AS NOTED PROJECT NO: 10967 DATE: 09-20-

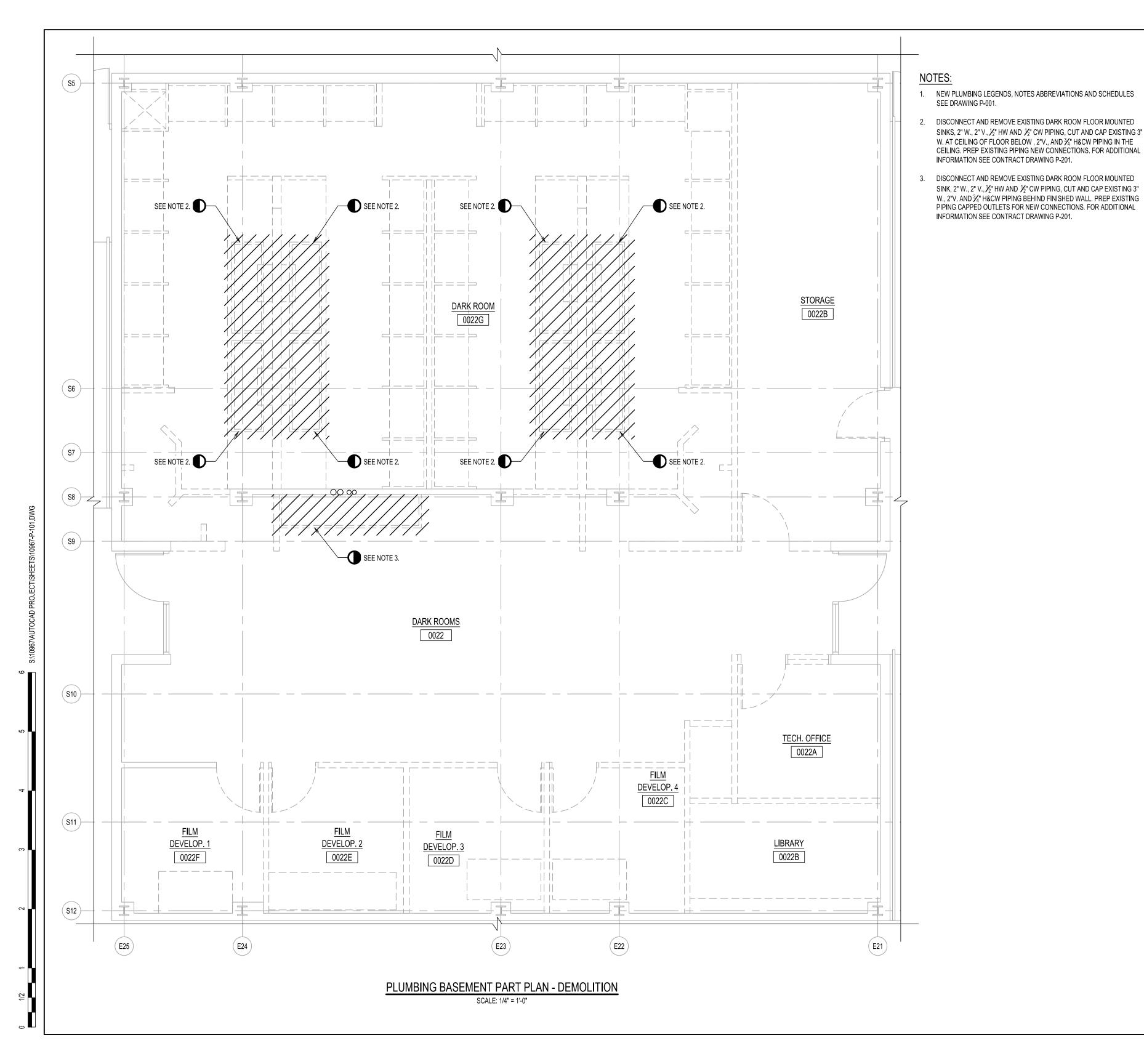
DRAWING TITLE:

PLUMBING LEGENDS, NOTES AND ABBREVIATIONS

DRAWING NUMBER

DRAWING 1 OF 5

P-001.00



VISUAL ARTS BUILDING PHOTO LAB RENOVATION

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735 ANDERSON HILL RD. PURCHASE NY 10577-1400 T. 914-251-5916

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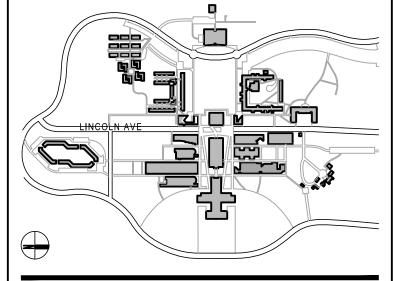
ARCHITECT LEWANDOWSKA ARCHITECT PLLC

244 FIFTH AVENUE, SUITE B265, NEW YORK, NY 10001 T. 212-787-4558 INFO@LEWANDOWSKAARCHITECT.COM

MEP ENGINEER LIZARDOS

200 OLD COUNTRY R. SUITE 670 MINEOLA, NY 11501 T. 516-484-1020 ANDREW.DUBEL@LIZARDOS.COM

LOT 0000 BLOCK 0000

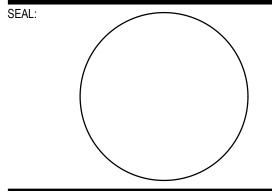


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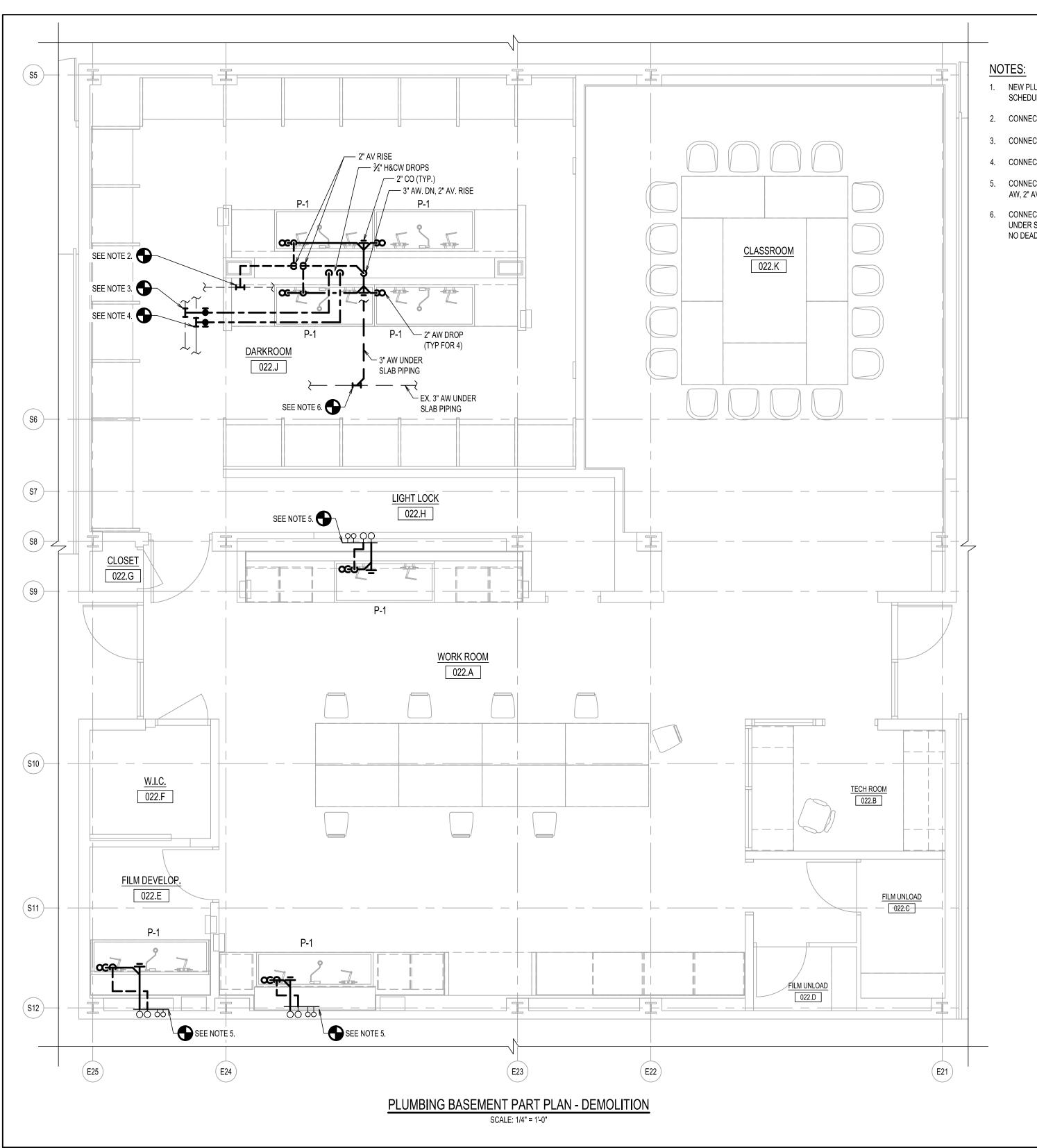
DRAWING TITLE:

PLUMBING BASEMENT PART PLAN - DEMOLITION

DRAWING NUMBER

DRAWING 2 OF 5

P-101.00



- NEW PLUMBING LEGENDS, NOTES ABBREVIATIONS AND SCHEDULES SEE DRAWING P-001.
- 2. CONNECT NEW 2" AV. PIPING TO EXISTING 2" AV. PIPING IN CEILING.
- 3. CONNECT NEW $\frac{3}{4}$ " CW TO EXISTING $\frac{3}{4}$ " CW PIPING IN CEILING.
- 4. CONNECT NEW 3/4" HW TO EXISTING 3/4" HW PIPING IN CEILING.
- 5. CONNECT NEW 2" AW, 2" AV, ¾" H&CW PIPING TO THE EXISTING 2" AW, 2" AV, 3/4" H&CW PIPING LOCATED BEHIND THE FINISHED WALL.
- CONNECT NEW 3" AW UNDER SLAB TO EXISTING 3" ACID WASTE UNDER SLAB PIPING. PIPING MATERIALS SHALL MATCH EXISTING. NO DEAD PIPING ALLOWED.

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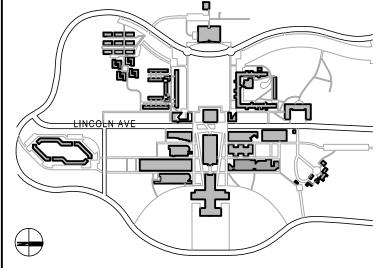
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LOT 0000 BLOCK 0000

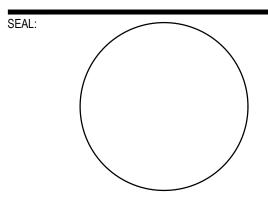


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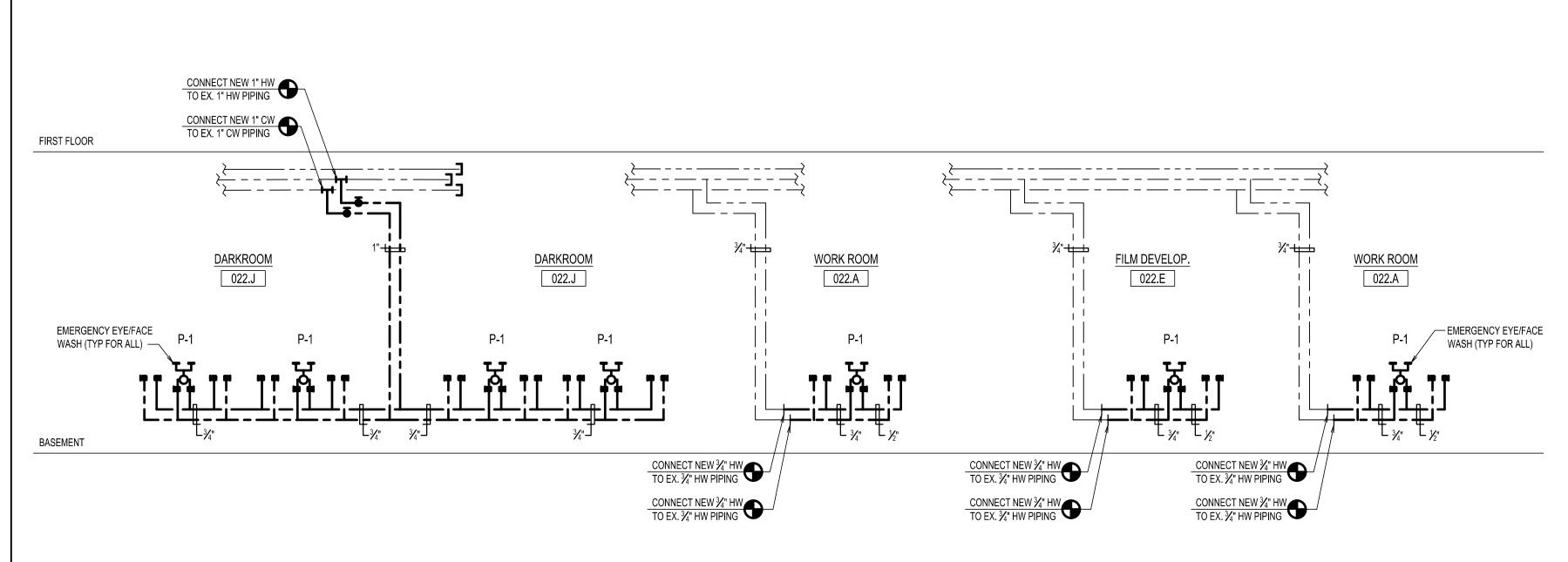
SCALE: AS NOTED

PLUMBING BASEMENT PART PLAN - NEW WORK

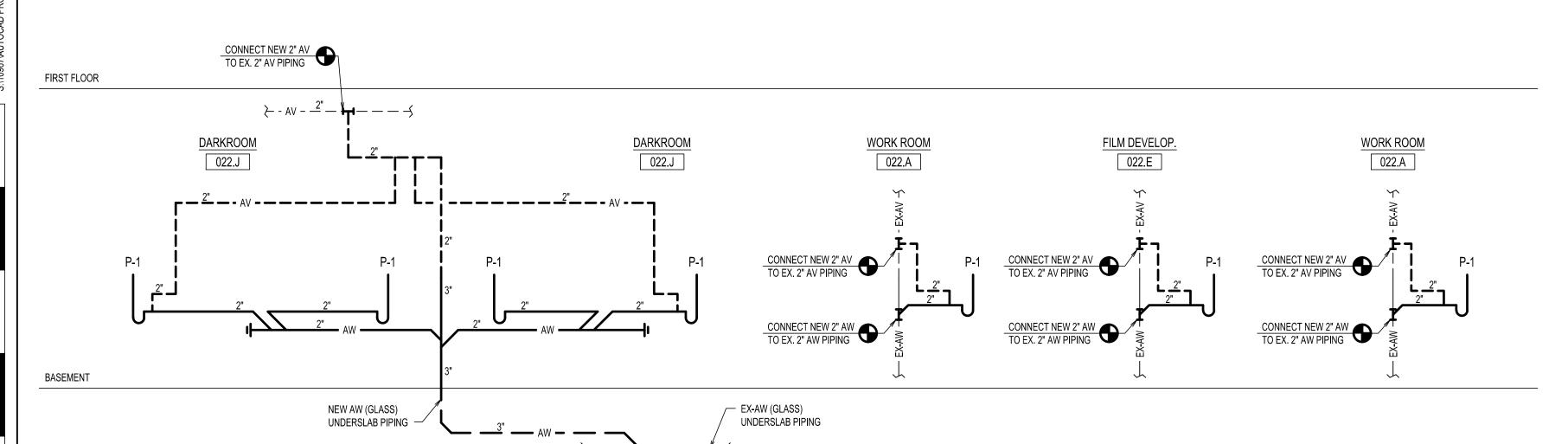
DRAWING NUMBER

DRAWING 3 OF 5

P-201.00



DOMESTIC WATER RISER DIAGRAM



SANITARY RISER DIAGRAM

CONNECT NEW 3" AW TO EX. 3" AW PIPING

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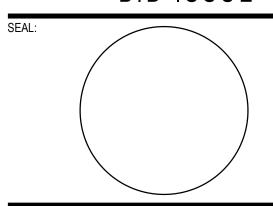
KEYPLAN LOT 0000 BLOCK 0000

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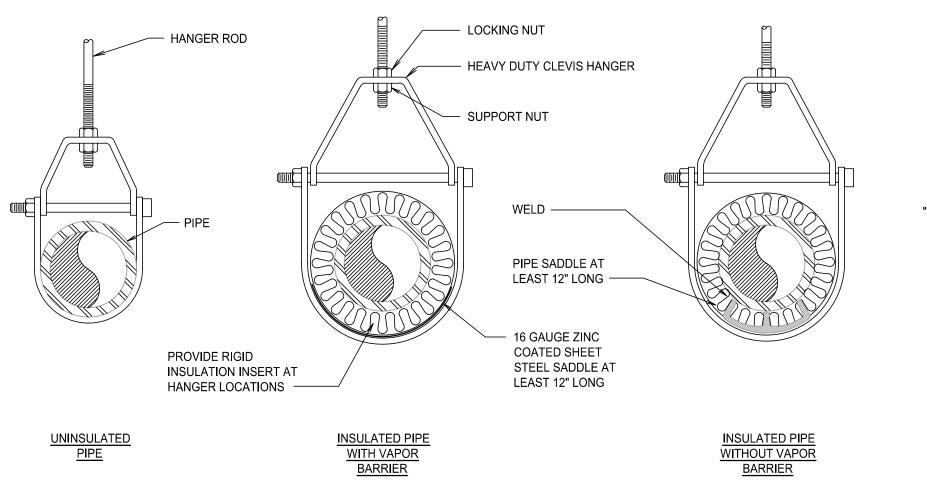
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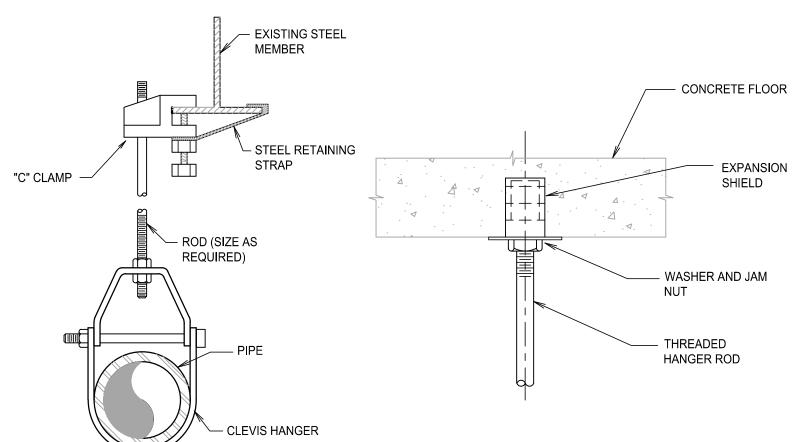
| PLUMBING RISER DIAGRAMS

DRAWING NUMBER

DRAWING 4 OF 5

P-301.00

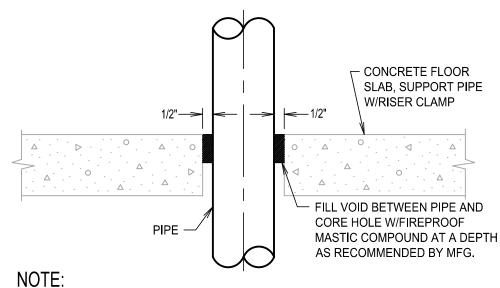




TYPICAL HANGER DETAIL

TYPICAL EXPANSION DETAIL

NOT TO SCALE



COORDINATE ALL CORE HOLE PENETRATIONS W/STRUCTURAL ENGINEER.

NOT TO SCALE

TYPICAL CLEVIS HANGER PIPE SUPPORT DETAIL

NOT TO SCALE

NOTE:

REPAIR DAMAGED OR DISLODGED FIREPROOFING TO ITS ORIGINAL CONDITION AFTER INSTALLATION OF NEW HANGER ATTACHMENTS.

STRUCTURAL STEEL BEAM

HEAVY DUTY

BEAM CLAMP

BOLT AND

LOCKING NUT

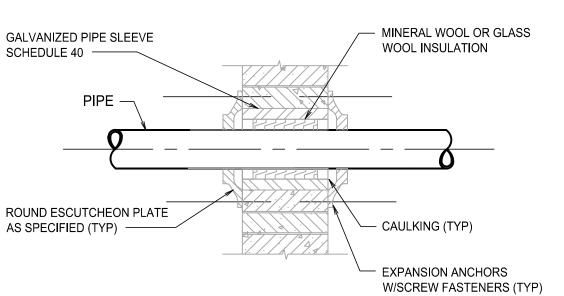
EYE SOCKET

HANGER ROD

TYPICAL EXPANSION DETAIL NOT TO SCALE

ATTACHMENT TO STEEL BEAM NOT TO SCALE

PIPE CORE HOLE DETAIL NOT TO SCALE



IF PIPE IS NOT SUPPORTED IN THE VICINITY OF THE PENETRATION USE STANDARD PIPE RISER CLAMP INSTEAD OF ESCUTCHEON. CAULKING (TYP) MINERAL WOOL GALVANIZED PIPE SLEEVE SCHEDULE 40 EXPANSION ANCHORS W/ SCREW FASTENERS (TYP) ROUND ESCUTCHEON PLATE AS SPECIFIED (TYP)

PIPE PENETRATION IN INTERIOR PARTITION DETAIL

NOT TO SCALE

PIPE PENETRATION IN FLOOR SLAB DETAIL

NOT TO SCALE

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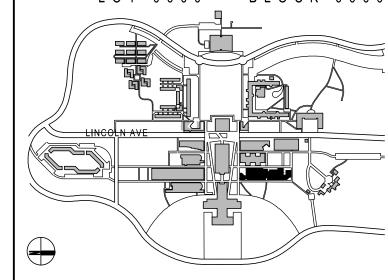
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BLOCK 0000 LOT 0000

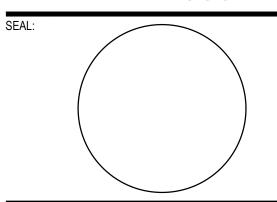


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DESCRIPTION NO DATE

PROJECT NO: 10967 DATE: SCALE: AS NOTED

DRAWING TITLE:

PLUMBING DETAILS

DRAWING NUMBER

DRAWING 5 OF 5

P-401.00

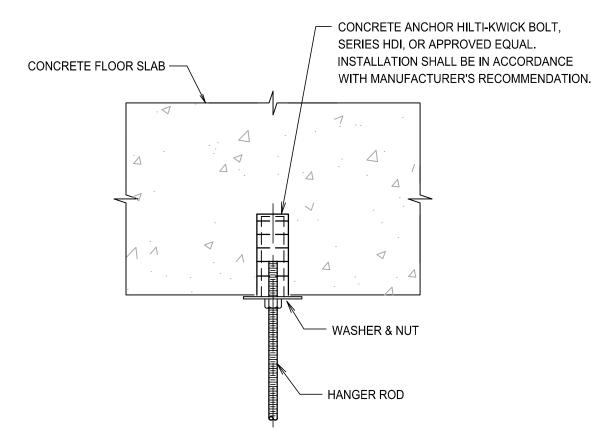
- PIPING ARRANGEMENTS ARE APPROXIMATE. CONTRACTOR MUST VERIFY EXACT LOCATION AND ROUTING PRIOR TO INSTALLATION.
- 3. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS ON THE JOB SITE AND MAINTAIN REQUIRED CEILING HEIGHTS AND CONDITIONS.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, SERVICES, LABOR AND TESTS NECESSARY FOR COMPLETE EXECUTION OF ALL PLUMBING WORK.
- 5. MATERIALS, EQUIPMENT AND SYSTEMS INSTALLED SHALL MEET ALL PERTINENT REQUIREMENTS OF NEW YORK STATE BUILDING CODES, NATIONAL FIRE PROTECTION ASSOCIATION, FEDERAL REGULATIONS, OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND ANY NATIONALLY RECOGNIZED APPROVAL AGENCIES AS WELL AS APPLICABLE LOCAL CODES AND REGULATIONS.
- SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND REPLACEMENT OF ANY EXISTING SUSPENDED CEILINGS AND/OR FINISHES DAMAGED BY INSTALLATION OF PIPING UNDER SPRINKLER CONTRACT.
- PIPE SIZING AND PIPE LAYOUT SHOWN ARE BASED ON DESIGN PIPING LAYOUT ONLY. ACTUAL PIPE SIZES AND PIPING CONFIGURATION SHALL BE DETERMINED BY THE CONTRACTORS HYDRAULIC CALCULATIONS AND COORDINATION WITH THE OTHER TRADES BASED ON THEIR INSTALLATION DRAWINGS. THE CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN THEIR CONTRACT PRICE.
- BE ADVISED THAT IT IS THE SPRINKLER CONTRACTORS RESPONSIBLE FOR OBTAINING ANY AND ALL FINAL APPROVALS FOR THEIR INSTALLED SYSTEM BASED ON THESE COORDINATED SHOP DRAWING(S) AND HYDRAULIC CALCULATIONS. THE INSTALLATION SHALL BE CERTIFIED BY THE SPRINKLER CONTRACTOR AND THESE SPRINKLER PLAN(S) AND HYDRAULIC CALCULATIONS SHALL BE SIGNED AND SEALED BY YOUR ENGINEER AND BE SUBMITTED TO THE NYC DOB TO REPLACE LIZARDOS AS THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL PHASE THE INSTALLATION OF THE NEW SPRINKLER SYSTEM PER THE PROGRAM AS INDICATED ON THE ARCHITECTURAL DRAWINGS. THE EXISTING SPRINKLER SYSTEM WITHIN THE PHASED AREA OF WORK SHALL BE CAPPED AND REMOVED AS REQUIRED HOWEVER. THE EXISTING SYSTEM OUTSIDE OF THE CURRENT PHASE OF THE WORK SHALL REMAIN IN SERVICE. MAKE TEMPORARY PIPING CONNECTIONS AS REQUIRED TO ASSURE THE EXISTING SYSTEM IS KEPT IN SERVICE.

	SPRINKLER LEGEND					
•	NEW CONCEALED PENDENT TYPE SPRINKLER HEAD					
\bowtie_{R}	EXISTING SPRINKLER HEAD TO BE RELOCATED					
\bowtie_{D}	EXISTING SPRINKLER HEAD TO BE REMOVED					
	NEW SPRINKLER PIPING					
	EXISTING SPRINKLER/FIRE STANDPIPE PIPING					
•	NEW CONNECTION TO EXISTING					
	POINT OF DISCONNECTION					
EXIST	EXISTING					
SPKR	SPRINKLER					
CONN	CONNECTION					
DN	DOWN					
RCV	RISER CONTROL VALVE WITH TAMPER SWITCH					
FCV	FLOOR CONTROL VALVE					

	DRAWINGS LIST
SP-001.00	SPRINKLER LEGENDS, NOTES, ABBREVIATIONS AND DETAILS
SP-201.00	SPRINKLER BASEMENT PART PLAN - NEW WORK
SP-301.00	SPRINKLER RISER DIAGRAM

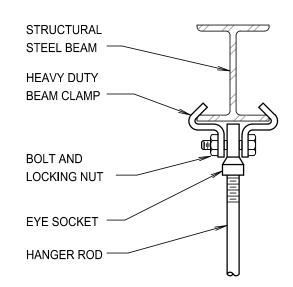
SPRINKLER SCOPE OF WORK

- DISCONNECT AND REMOVE EXISTING CONCEALED PENDENT TYPE SPRINKLER HEAD AND ASSOCIATED PIPING.
- 2. FURNISH AND INSTALL NEW SPRINKLER HEADS LOCATED PER REVISED ARCHITECTURAL AND LIGHTING PLAN.
- CONNECT NEW 1" SPRINKLER PIPE TO EXISTING SPRINKLER BRANCH PIPING AND NEW SPRINKLER HEAD

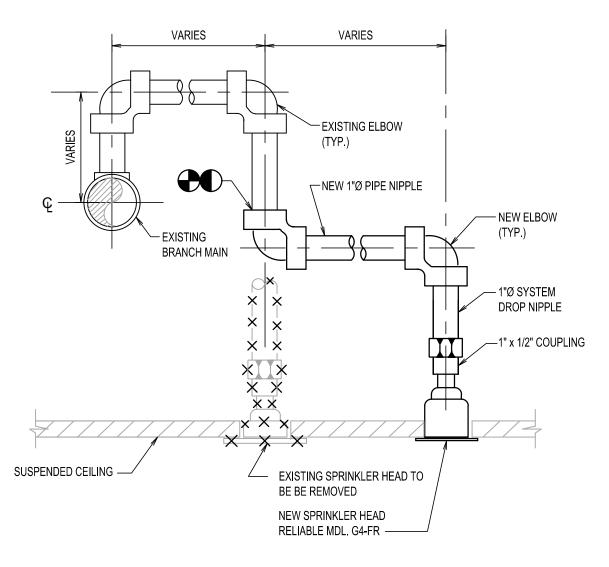


TYPE 'A' ATTACHMENT TO SLAB

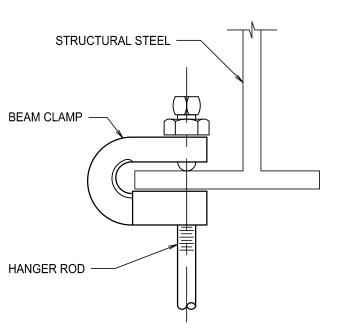
NOT TO SCALE



TYPE 'C' ATTACHMENT TO STEEL BEAM NOT TO SCALE

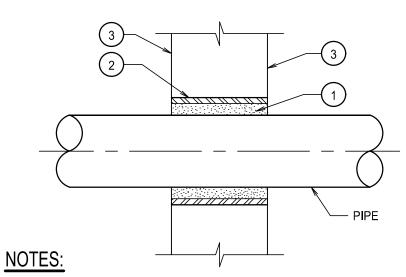


SPRINKLER ARM OVER DETAIL



TYPE 'B' ATTACHMENT TO STEEL BEAM

NOT TO SCALE



- FILL VOID BETWEEN SLEEVE AND PIPE (OR INSULATION) TO FULL DEPTH WITH INTUMESCENT FIRE STOPPING MATERIAL (AT FIRE RATED WALL). MAXIMUM VOID 1/2-INCH
- SLEEVE
- PARTITION, WALL OR FLOOR

PIPE PENETRATION THRU FIRE WALL DETAIL

HANGER ROD -ROD NUT ADJUSTABLE SWIVEL RING HANGER

NOTES:

- (1) HANGER'S AND ROD SIZES SHALL BE AS APPROVED BY F.M. AND NFPA #13.
- (2) SWIVEL RING HANGERS SHALL BE USED FOR PIPING 4" AND SMALLER AND CLEVIS HANGERS SHALL BE USED FOR PIPING LARGER THAN 4 INCHES.

SPRINKLER PIPE HANGER SUPPORT DETAIL

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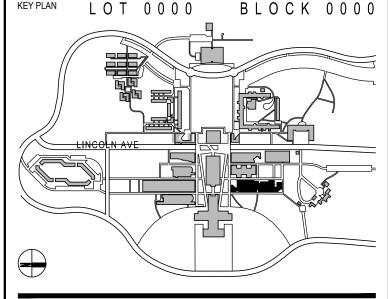
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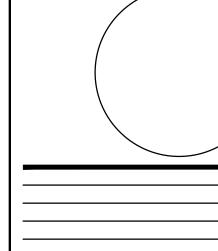


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SEAL:

SCALE: AS NOTED

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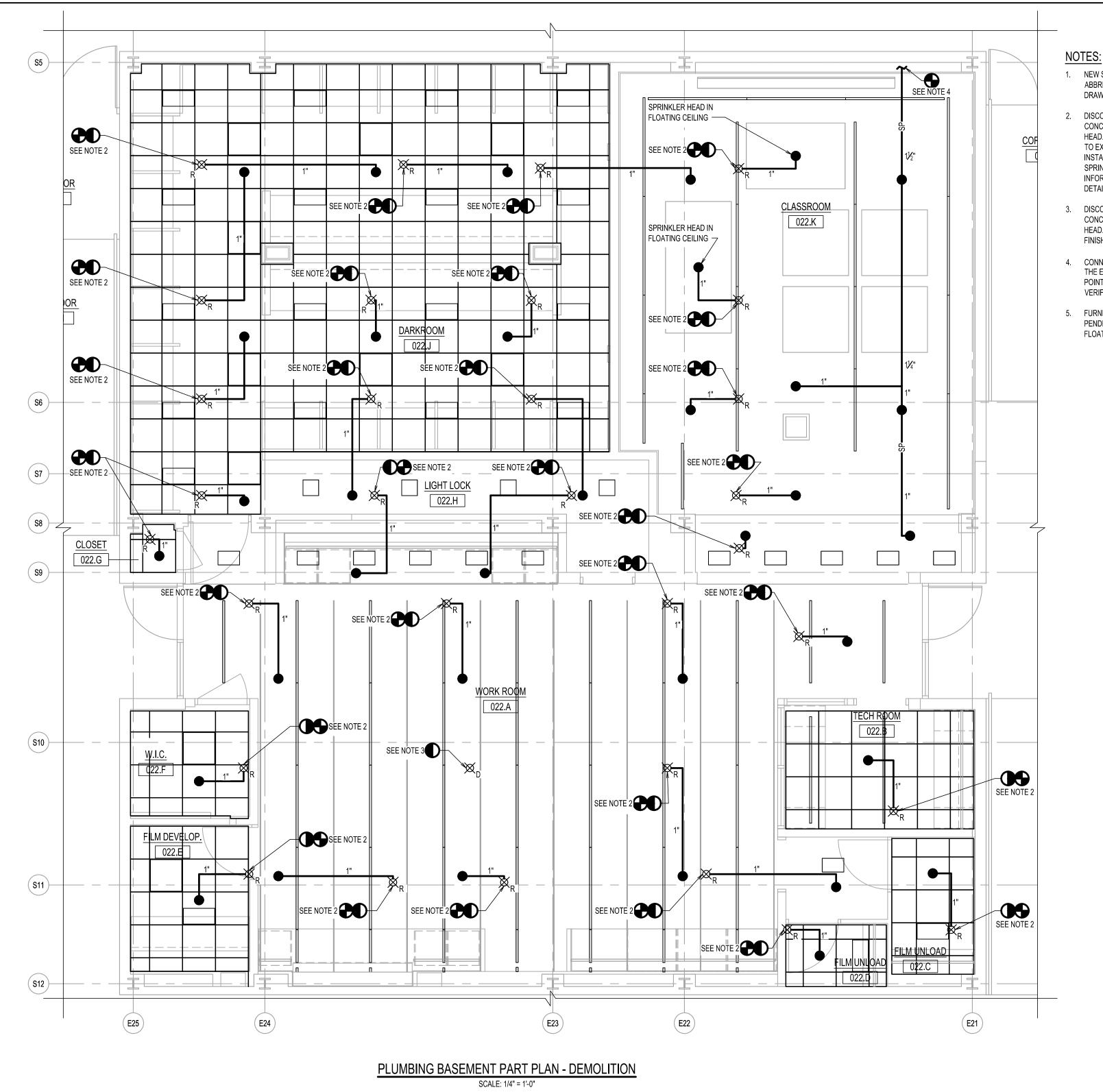
DRAWING TITLE:

SPRINKLER LEGENDS, NOTES, ABBREVIATIONS AND DETAILS

DRAWING NUMBER

DRAWING

SP-001.00



- NEW SPRINKLER LEGENDS, NOTES ABBREVIATIONS AND SCHEDULES SEE DRAWING SP-001.
- DISCONNECT AND REMOVE EXISTING CONCEALED PENDENT TYPE SPRINKLER HEAD. CONNECT NEW 1" SPRINKLER PIPE TO EXISTING PIPING, FURNISH AND INSTALL NEW CONCEALED PENDENT TYPE SPRINKLER HEAD, FOR ADDITIONAL INFORMATION SEE SPRINKLER ARMOVER DETAIL.
- 3. DISCONNECT AND REMOVE EXISTING CONCEALED PENDENT TYPE SPRINKLER HEAD. CAP SPRINKLER PIPE ABOVE FINISHED CEILING.
- CONNECT NEW 11/2" SPRINKLER PIPE TO THE EXISTING 4" SPRINKLER MAIN. EXACT POINT OF CONNECTION SHALL BE FIELD VERIFIED.
- 5. FURNISH AND INSTALL NEW CONCEALED PENDENT TYPE SPRINKLER HEAD IN FLOATING CEILING.

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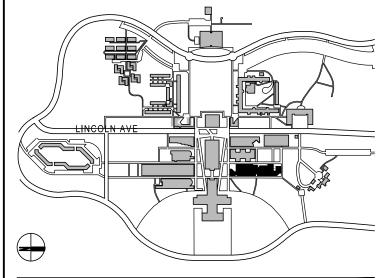
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KEY PLAN LOT 0000 BLOCK 0000

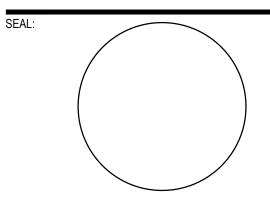


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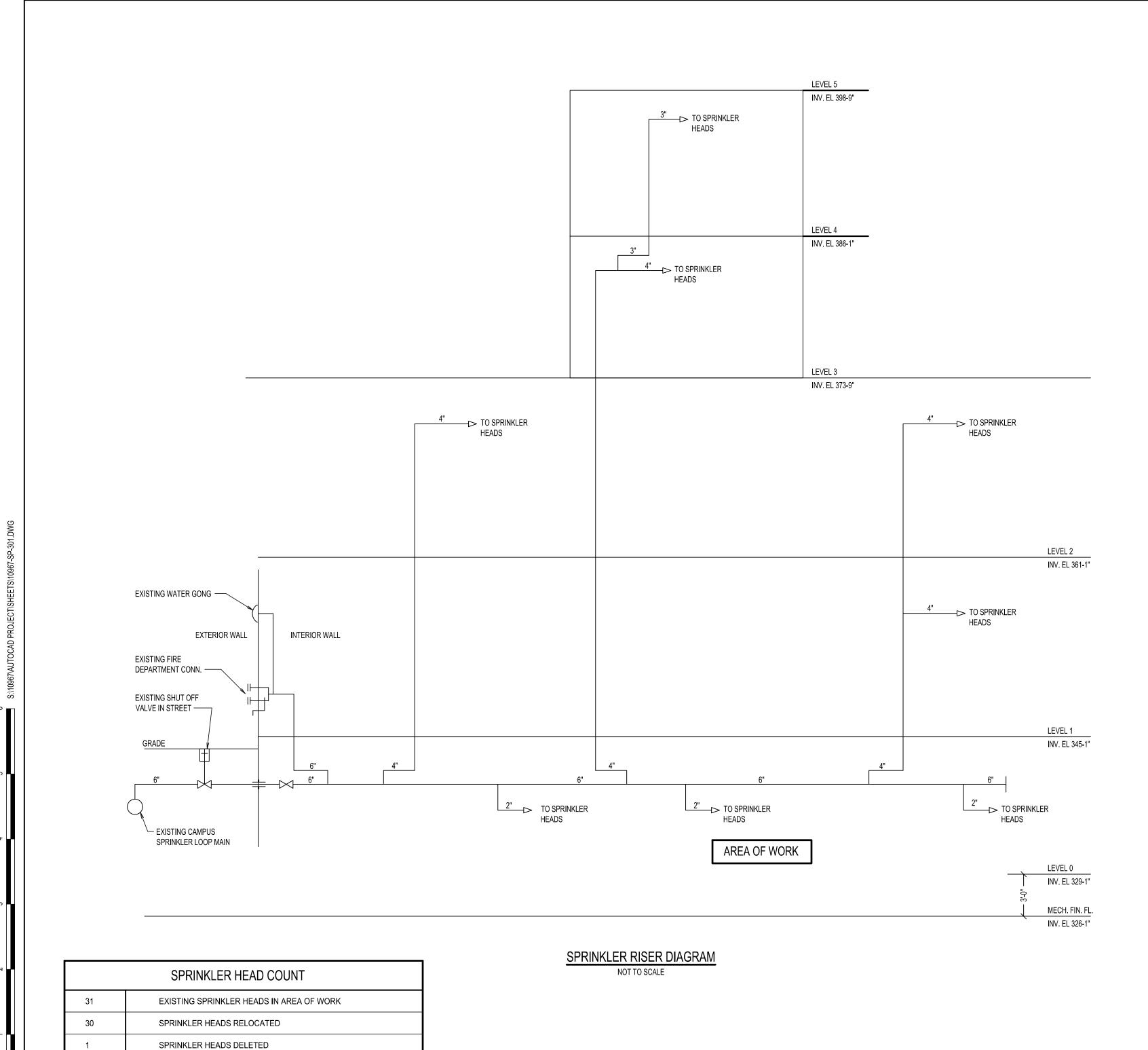
DRAWING TITLE:

SPRINKLER BASEMENT PART **PLAN - NEW WORK**

DRAWING NUMBER

DRAWING 2 OF 3

SP-201.00



TOTAL SPRINKLER HEADS IN AREA OF WORK

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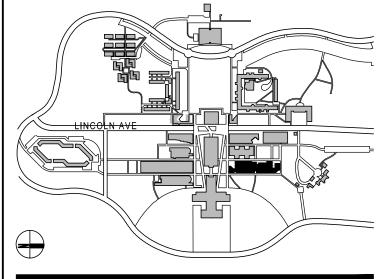
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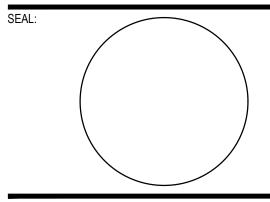


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PROJECT NO: 10967 DATE:

DRAWING TITLE:

SPRINKLER RISER DIAGRAM

DRAWING 3 OF 3

SP-301.00

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12	
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	ABBREVIATIONS						
AB	ABOVE						
AD	ACCESS DOOR						
AFF	ABOVE FINISHED FLOOR						
BEL	BELOW						
BHP	BRAKE HORSEPOWER						
B.R.	BOTTOM REGISTER						
CLG	CEILING						
CONN	CONNECT, CONNECTIONS						
DB	DRY BULB						
DIA	DIAMETER						
DN	DOWN						
DWG	DRAWING						
EA	EACH						
EFF	EFFICIENCY						
EL	ELEVATION						
ENT	ENTERING						
FF	FINISHED FLOOR						
FL	FLOOR						
FPM	FEET PER MINUTE						
FPS	FEET PER SECOND						
HP	HORSEPOWER						
HZ	HERTZ (CYCLES PER SECOND)						
IOM	INSTALLATION AND OPERATION MANUAL						
KW	KILOWATTS						
LVG	LEAVING						
MBH	THOUSANDS OF BTU PER HOUR						
MFR	MANUFACTURER						
NO.	NUMBER						
OAI	OUTSIDE AIR INTAKE						
PH	PHASE						
PSIG	POUNDS PER SQUARE INCH GAUGE						
RPM	ROTATIONS PER MINUTE						
口	SQUARE FEET						
SP	STATIC PRESSURE						
ΔT	TEMPERATURE DIFFERENCE IN °F.						
TYP	TYPICAL						
T.R.	TOP REGISTER						
V	VOLTS						
WB	WET BULB						

EQUIPMENT TAGS									
	Eggii MENT 17.00								
TAG/NO	DESCRIPTION								
EAV/1	EXHAUST AIR VALVE No.1								
EF/1	EXHAUST FAN No.1								
HC/1	DUCT MOUNTED HEATING COIL No.1								
VAV/1	VARIABLE AIR VOLUME BOX №.1								

V/ (V/ I	With BEE And To Earlie Box 116.1
OTE: THE LETTER "X" B	FEORE A TAG DENOTES EXISTING FOLIPMENT

	DUCTWORK LEGEND									
SYMBOL	ABBREV	DESCRIPTION								
	N	NECK SIZE								
<u>┖</u> ┾╼┾╸┈	VD	VOLUME DAMPER								
	MD	MOTORIZED DAMPER								
	АМ	AIRFLOW MEASURING STATION								
	FC	FLEXIBLE CONNECTION								
<u>~</u> ↓		RISE OR DROP IN THE DIRECTION OF AIR FLOW								
		CEILING SUPPLY AIR DEVICE								
		CEILING RETURN OR EXHAUST AIR DEVICE								
	AL	ACOUSTICAL LINING								
		SIDE CONNECTED SUPPLY, RETURN OR EXHAUST AIR DEVICE								
 	DD	DUCT DETECTOR								
 - - 	FD FSD	FIRE DAMPER FIRE SMOKE DAMPER								
	BS TS EQS	BOTTOM SPLIT SIZE TOP SPLIT SIZE EQUAL SPLIT								
	TV	TURNING VANES								
	OAI SA	OUTSIDE AIR INTAKE SUPPLY AIR								
<i>₹</i> /// <i>2</i>	TGFD	BACK-TO-BACK TOP GRILLES WITH FIRE DAMPER								
		LOUVERED DOOR								
- U		UNDER-CUT DOOR								
<u> </u>		THERMOSTAT								
		OCCUPANCY SENSOR								
(CO2)		CARBON DIOXIDE SENSOR								
	AD(#-LxW)	ACCESS DOOR(# OF A.D LENGTH (IN) x WIDTH (IN))								
	WMS	WIRE MESH SCREEN								
	CFM	CUBIC FEET PER MINUTE								
		FUTURE EXTENSION OF CAPPED DUCTWORK								

	PIPE SYSTEM LEGEND							
SYMBOL	DESCRIPTION							
CHWR	CHILLED WATER RETURN							
—— CHWS ——	CHILLED WATER SUPPLY							
—— DR ——	DRAIN LINE							
—— HHGR ——	HEATING HOT GLYCOL RETURN							
—— HHGS ——	HEATING HOT GLYCOL SUPPLY							
—— HHWR ——	HEATING HOT WATER RETURN							
—— HHWS ——	HEATING HOT WATER SUPPLY							
—— HTWR ——	HIGH TEMPERATURE WATER RETURN							
—— HTWS ——	HIGH TEMPERATURE WATER SUPPLY							
— RHWR —	REHEAT WATER RETURN							
	REHEAT WATER SUPPLY							

DIDING LECEND								
PIPING LEGEND								
SYMBOL	ABBREV	DESCRIPTION						
	GA	GATE VALVE						
<u> </u>	GL	GLOBE VALVE						
	BF	BUTTERFLY VALVE						
	ВА	BALL VALVE						
	CV	2-WAY CONTROL VALVE						
<u></u>	PV	PLUG VALVE						
	СН	CHECK VALVE						
	PSR	PRESSURE SAFTEY RELIEF VALVE						
	TP	TEMPERATURE PROBE						
**************************************	STR	STRAINER WITH BLOW-OFF VALVE AND CAP						
	TH	THERMOMETER						
<u></u>	PG	PRESSURE GAUGE						
	FPC	FLEXIBLE PIPE CONNECTION						
		CAP						
	U	UNION						
<u> </u>	CO	CLEAN-OUT						
	RED	CONCENTRIC REDUCER						
_ -	НВ	HOSE BID						
		FLOW ARROW						
\longrightarrow		BREAK						
		DROP						
—)		45° DROP						
		BOTTOM TAKE-OFF						
\leftarrow		VALVE DROP						
─ >>		PLUG VALVE IN DROP						
	FM	FLOW METER						
<u> </u>		AIR VENT VALVE						
		THERMOWELL						
X		ANCHOR						
		GUIDE						
- ₩-	CBV	CIRCUIT BALANCING VALVE						
11	BFP	BACKFLOW PREVENTOR						
H		BRAIDED EXPANSION LOOP						
⊣ I		BLIND FLANGE						
F		IT DROP						

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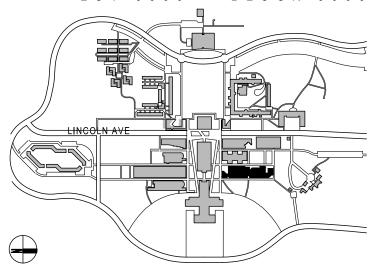
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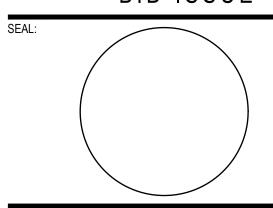


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BID ISSUE



02 02.20.2024 ISSUED FOR BID 12.04.2023 ISSUED FOR CLIENT APPROVAL

DESCRIPTION

SCALE: AS NOTED PROJECT NO: 10967 DATE:

DRAWING TITLE:

MECHANICAL LEGENDS, NOTES & ABBREVIATIONS (SHEET 1 OF 2)

DRAWING NUMBER

DRAWING 1 OF 13

M-001.00

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		<u>SYSTEM</u>	DUCT PRESSURE CLASS	DUCT SEAL CLASS
,		RECTANGULAR SUPPLY UPSTREAM VAV / DOWNSTREAM VAV	+4" W.G. / +2" W.G.	А
		RECTANGULAR RETURN	-2" W.G.	А
,		RECTANGULAR EXHAUST	-2" W.G.	А
		ROUND SUPPLY UPSTREAM VAV / DOWNSTREAM VAV	+4" W.G / +2" W.G.	А
		ROUND RETURN	-2" W.G.	А
7		ROUND EXHAUST	-2" W.G.	А

GENERAL NOTES:

AIR DEVICE SCHEDULE

FOUR WAY BLOW CEILING

THREE WAY BLOW CEILING

TWO WAY BLOW CEILING

RETURN OR EXHAUST REGISTER

RETURN REGISTER

CEILING DIFFUSER

RETURN OR EXHAUST

TYPE 'A' - TITUS MODEL OMNI FULL FACE (MODULE SIZE 24x24) STEEL AIR DEVICE WITH ROUND NECK, (LAY-IN TYPE), PROVIDE EQUALIZING

TYPE 'B' - TITUS MODEL 350RL STEEL AIR DEVICE, WITH FIXED 3/4" SPACED BLADES, 35° DEFLECTION BORDER TYPE 3 FOR LAY-IN APPLICATION

GRID, AG-75 OPPOSED BLADE DAMPER, MOLDED INSULATION BLANKET AND DIRECTIONAL BLOW CLIPS AS REQUIRED.

OR BORDER TYPE 1 FOR 10x10 NK., SURFACE MOUNT APPLICATION, MODEL AG-15 OPPOSED BLADE DAMPER.

AG-75 OPPOSED BLADE DAMPER, MOLDED INSULATION BLANKET. (ANEMOSTAT AS EQUAL)

PROVIDE EQUALIZING GRID AT ALL ROUND NECK TAKEOFFS FROM BRANCH RECTANGULAR DUCTWORK.

EXACT COLOR & FINISH FOR ALL AIR DEVICES SHALL BE SELECTED AND APPROVED BY ARCHITECT.

DUCTWORK CLASS

5. EXACT LOCATION OF ALL AIR DEVICES TO BE AS PER ARCHITECTS REFLECTED CEILING PLAN.

COORDINATE AIR DEVICES/BORDER TYPE WITH ARCHITECTS CEILING GRID PRIOR TO RELEASE OF ORDER.

TYPE 'C' - TITUS MODEL 350RS-SS RETURN AIR REGISTER WITH 3/4" FIXED SPACED 35 DEGREE DEFLECTION HORIZONTAL LOVERS AND

TYPE 'E' - TITUS MODEL SSBG STAINLESS STEEL LINEAR BAR GRILLE, 1/8" BARS SPACED 3/8" & Ø DEFLECTION, 1" FLANGE FRAME.

TYPE 'D' - TITUS MODEL R-OMNI FACE (SIZE 18" Ø) STEEL AIR DEVICE WITH FINISHED IN #84 BLACK ROUND NECK, PROVIDE EQUALIZING GRID,

CONTRACTOR SHALL APPLY FLAT BLACK PAINT TO INTERIOR PORTIONS OF DUCT AND/OR GRILLES WHERE VISIBLE FROM FLOOR LEVEL.

ROUND FOUR WAY BLOW

SIDEWALL

REGISTER

CFM RANGE

0-100

101-200

201-315

316-425

426-600 601-740

0-140

141-220

221-315

0-80

81-140

141-220

221-315

0-400

401-1,100

SEE

0-150

151-275

SEE

DUCT LEAK CLASS

CFM/100SF

DRAWINGS

276-436

DRAWINGS

1,101-1,880

NECK SIZE

6"Ø

8"Ø

10"Ø

12Ø

14Ø

15Ø

8"Ø

10"Ø

12Ø

8"Ø

10"Ø

12Ø

14Ø

10x10

22x10

22x22

SEE

6" Ø

8" Ø

10" Ø

DRAWINGS

DRAWINGS

DESCRIPTION

DIFFUSER

DIFFUSER

DIFFUSER

FACE SIZE

24x24

24x24

24x12

24x24

DRAWINGS

13.5" Ø

18" Ø

22.5" Ø

DRAWINGS

SEE

OPPOSED BLADE DAMPER (NAILOR, ANEMOSTAT).

PROVIDE SHOP DRAWINGS INCLUDING THROW DATA, NC VALUES, ETC.

TYPE

SYMBOL

A(CFM)

A(CFM)

A(CFM)

B(CFM)

D(CFM)

E(CFM)

(ANEMOSTAT AS EQUAL)

(ANEMOSTAT AS EQUAL)

(ANEMOSTAT AS EQUAL)

7. NC VALUE NOT TO EXCEED NC 25.

NOTES:

- ALL WORK SHALL BE PERFORMED BY PROFESSIONALS IN THE FIELD AND COMPLY WITH THE APPLICABLE REGULATIONS OF NYS BUILDING CODES (MECHANICAL CODE, ENERGY CONSERVATION CONSTRUCTION CODE, ETC.), OSHA AND CAMPUS WORK RULES.
- 2. ALL NOTES PROVIDED IN THESE DOCUMENTS ARE PART OF THE CONTRACT AND CARRY EQUAL VALUE.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND BE RESPONSIBLE TO ARRANGE AND SECURE ALL NECESSARY INSPECTIONS...
- ALL WORK PERFORMED BY THE CONTRACTOR/SUB-CONTRACTORS SHALL CONFORM TO THE REQUIREMENTS OF MUNICIPAL, LOCAL OR FEDERAL AND STATE LAWS, AS WELL AS ANY OTHER GOVERNING REQUIREMENTS, WHETHER OR NOT SPECIFIED ON THE DRAWINGS.
- CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR JOBSITE SAFETY AND SHALL ARRANGE WORK IN SUCH A MANNER TO PROVIDE FOR SAFE ACCESS FOR COLLEGE'S INSPECTION OF ALL WORK.
- THE TERMS "PROVIDE" OR "FURNISH AND INSTALL" SHALL INCLUDE ALL LABOR, MATERIALS, DEVICES, WIRING, RIGGING, SUPPORTS, DELIVERY ETC. THAT WOULD BE NECESSARY TO PROVIDE FOR A FULLY FUNCTIONAL DEVICE AS INDICATED.
- ALL MATERIAL SHALL BE NEW. REBUILT OR REFURBISHED MATERIALS SHALL BE REJECTED.
- ALL WORK SHALL BE PERFORMED WITH MINIMAL INTERRUPTION TO THE COLLEGE. ANY WORK REQUIRING UTILITY SHUTDOWN. OR OTHER DISRUPTION SHALL NOT BE DONE WITHOUT COLLEGE'S
- THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT, MATERIALS, SHOP DRAWINGS, AND PERFORMANCE INFORMATION ON ALL PRODUCTS FOR APPROVAL. ALL PRODUCTS INSTALLED WITHOUT APPROVAL SHALL BE AT RISK. APPROVAL SHALL BE LIMITED TO THAT THE PRODUCT COMPLIES WITH THE SPECIFICATIONS OR EXPECTED PERFORMANCE; ACTUAL PERFORMANCE TO THE LIMITS DEFINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10. CONTRACTOR SHALL PROVIDE INSTRUCTION TO THE OWNER FOR ALL EQUIPMENT SUPPLIED AND INSTALLED UNDER THIS CONTRACT, INCLUDING ANY WORK PERFORMED BY SUBCONTRACTORS.
- 11. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM AND COORDINATE JOBSITE DIMENSIONS THAT AFFECT THE ERECTION OR OPERATION OF SYSTEMS, AS INTENDED BY THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ENSURE INSTALLED EQUIPMENT MAINTAINS ADEQUATE CLEARANCES FOR OPERATIONAL ACCESS AND SERVICE. AND SHALL MAINTAIN ANY CLEARANCES REQUIRED BY ALL APPLICABLE CODES.
- 12. THE CONTRACTOR SHALL MAKE ALL REQUIRED ARRANGEMENTS FOR DELIVERY OF EQUIPMENT AND/OR MATERIALS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK THE RULES AND REGULATIONS GOVERNING WORK ON THE PREMISES.
- 13. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL RUBBISH AND WASTE MATERIALS. AT THE END OF EACH WORK DAY THE PROJECT SITE SHALL BE LEFT IN A SAFE AND BROOM CLEANED CONDITION.
- 14. CONTRACTOR SHALL PROPERLY PROTECT THE BUILDING AND ANY ADJOINING PROPERTY OR WORK AND ANY DAMAGE TO THE SAME CAUSED BY HIS WORK OR WORKMEN MUST BE MADE GOOD WITHOUT DELAY, PATCHING AND REPLACING OF DAMAGED WORK.
- 15. ALL ACCEPTANCE TESTING SHALL BE WITNESSED BY THE COLLEGE OR THE COLLEGE'S REPRESENTATIVE
- 16. THE CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A STATE FREE FROM HAZARDS AND A NEAT AND CLEAN CONDITION AT THE END OF EACH WORKDAY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, FOLLOW SAFE WORKING PRACTICES, AND MAINTAIN THE SITE AND ADJACENT AREAS SAFE FOR WORKERS AND FACILITY EMPLOYEES.
- 17. ALL MATERIALS, TOOLS, TRUCKS ETC. SHALL BE STORED IN AREAS DESIGNATED BY THE COLLEGE. CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCT STORAGE CONDITIONS AND SECURITY. THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY OF THE CONTRACTOR'S SHIPPING, DELIVERY OR OFFLOADING.
- 18. IT IS A VIOLATION OF STATE LAW TO FOR ANY PERSON OR PERSONS TO ALTER THESE PLANS. ANY MODIFICATIONS SHALL BE UNDER THE DIRECTION OF A NYS LICENSED ENGINEER

DRAWING NOTES:

- CONTRACTOR SHALL COMPLY WITH THE LATEST EPA REFRIGERANT EVACUATION RECLAMATION REQUIREMENTS (SECTION 608) PRIOR TO REMOVAL OF AIR CONDITIONING UNITS.
- CONTRACTOR TO DEMOLISH ALL EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES INCLUDING AIR CONDITIONING UNITS, HEATING AND VENTILATION UNITS, TERMINAL BOXES, AND ALL ASSOCIATED DAMPERS, CONTROLS, DUCTWORK AND PIPING,
- PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES FOR ALL EQUIPMENT
- ALL DUCTWORK SHOWN IS SCHEMATIC AND INTENDED FOR DESIGN PURPOSES ONLY. CONTRACTOR SHALL OFFSET ALL NEW DUCTS AS REQUIRED TO AVOID CONFLICTS WITH MINIMUM ADDITION TO DUCT EQUIVALENT LENGTH. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
- ALL DUCTWORK SHALL BE SUPPORTED AT DISTANCES NOT EXCEEDING THE SPACING IN NYS MECHANICAL CODE MC TABLE 305.4.
- PROVIDE ACCESS DUCT DOOR 2" SMALLER THAN DUCT WIDTH AND A MAXIMUM OF 24" IN LENGTH AND WIDTH AT ALL CONTROL DAMPERS, FIRE DAMPER, FIRE SMOKE DAMPER AND SMOKE DAMPER

HVAC LEGEND								
SYMBOL	DESCRIPTION							
	EXISTING DUCTWORK/PIPING/EQUIPMENT TO REMAIN							
++++++	EXISTING DUCTWORK/PIPING/EQUIPMENT TO BE REMOVED							
	NEW DUCTWORK/PIPING							
•	POINT OF NEW WORK CONNECTED TO EXISTING WORK							
•	POINT OF DISCONNECT FROM EXISTING WORK							

DEMOLITION NOTES:

- 1. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, STORAGE FACILITIES, SERVICES AND SUPERVISION NECESSARY FOR THE DEMOLITION WORK AS INDICATED ON DRAWINGS AND
- 2. ALL EXISTING EQUIPMENT, MATERIALS AND WORK SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE OCCURRING FROM HIS WORK
- 3. ALL WORK SHALL BE EXECUTED IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR PUBLIC SAFETY AND IN CONFORMANCE WITH OSHA REGULATIONS.
- 4. CONTRACTOR SHALL PROVIDE BARRIERS TO PREVENT DUST, ODORS, DIRT AND DEBRIS FROM MIGRATING TO AREAS NOT AFFECTED BY THIS WORK.
- 5. REMOVAL OF ANY MATERIAL AND EQUIPMENT SHALL INCLUDE ALL ASSOCIATED ITEMS SUCH AS FASTENERS, SUPPORTS, CONDUIT, FLASHING, ADHESIVE, ETC.
- EXISTING EQUIPMENT OR MATERIALS NOT SHOWN TO BE RE-USED BY OWNER. OR NOT SHOWN ON THE DRAWINGS TO BE RETAINED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
- 7. ALL CHARGES ASSOCIATED WITH TESTING, FILING, DISPOSAL, PREPARATION AND SUBMISSION OF ALL REQUIRED DOCUMENTATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ALL REQUIRED FORMS, RECORDS, TEST, DISPOSAL AND TRANSPORTATION COSTS AND THE LIKE SHALL BE INCLUDED IN THE CONTRACTOR'S PROPOSAL. NO ADDITIONAL COSTS SHALL BE PAID TO THE CONTRACTOR BECAUSE OF THE CONTRACTOR'S FAILURE TO COMPLY WITH THE ABOVE.
- 8. ALL DUCTWORK IS SHOWN DIAGRAMMATICALLY, CONTRACTOR TO FIELD VERIFY.

DUCTWORK NOTES

- THE MATERIALS, THICKNESS AND CONSTRUCTION OF SHEET METAL DUCTS SHALL PROVIDE STRUCTURAL STRENGTH AND DURABILITY, DUCTS SHALL BE CONSTRUCTED, BRACED AND REINFORCED IN ACCORDANCE WITH LOW PRESSURE AND HIGH PRESSURE DUCT STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA), LATEST EDITION IN PRINT OR IN ACCORDANCE WITH THE FUNDAMENTALS VOLUME BOOK OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE), LATEST EDITION IN PRINT.
- DUCTS SHALL BE SUBSTANTIALLY SUPPORTED. HANGERS AND BRACKETS FOR SUPPORTING DUCTS SHALL BE OF METAL HANGERS SHALL HAVE SUFFICIENT STRENGTH AND DURABILITY AND SUFFICIENT RESISTANCE TO THE CORROSIVE EFFECTS OF THE ATMOSPHERE TO WHICH THEY WILL BE EXPOSED, TO PROPERLY AND SAFELY SUPPORT THE DUCTWORK. HANGERS SHALL NOT BE USED IN DIRECT CONTACT WITH A DISSIMILAR METAL THAT WOULD CAUSE GALVANIC ACTION IN THE HANGER, DUCT, FASTENINGS OR STRUCTURE.
- HANGERS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS:
 - a. HANGERS SHALL BE FASTENED TO THE SIDES OF DUCT. FOR DUCTS OVER 48 INCHES WIDE HANGERS SHALL TURN UNDER DUCT AT LEAST TWO INCHES AND SHALL BE FASTENED TO THE BOTTOM AS WELL AS TO THE SIDES.
 - b. FOR DUCTS WITH A CROSS-SECTIONAL AREA OF TWO SQUARE FEET OR LESS, HANGERS SHALL BE CONSTRUCTED OF AT LEAST ONE INCH BY 1/16 INCH STEEL STRAP.
 - c. FOR DUCTS WITH A CROSS SECTIONAL AREA OVER TWO SQUARE FEET, HANGERS SHALL BE CONSTRUCTED OF THREADED STEEL ROD (MINIMUM 1/2"-DIAMETER) WITH STEEL SINGLE TRAPEZE SUPPORTS.
- DUCTS AND ALL PARTS OF THE DUCT SYSTEM SHALL BE SUBSTANTIALLY SUPPORTED AND SECURELY FASTENED TO THE STRUCTURAL MEMBERS OF THE BUILDING WITH APPROVED DEVICES OF NONCOMBUSTIBLE MATERIAL DESIGNED TO CARRY THE REQUIRED LOADS. THE USE OF EXPANSION BOLTS IN CINDER CONCRETE IS PROHIBITED. CONNECTIONS SHALL NOT IMPAIR THE EFFECTIVENESS OF THE FIRE PROTECTION OF STRUCTURAL MEMBERS.
- DUCTS SHALL NOT BE HUNG FROM OR SUPPORTED BY SUSPENDED CEILINGS.

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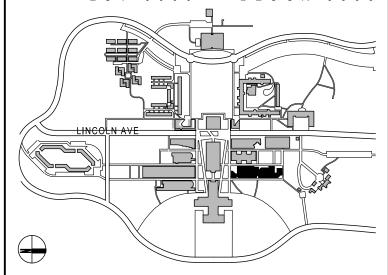
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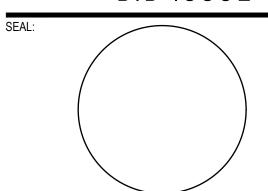


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BID ISSUE



02.20.2024 ISSUED FOR BID 12.04.2023 ISSUED FOR CLIENT APPROVAL

DESCRIPTION NO DATE

SCALE: AS NOTED

PROJECT NO: 10967 DATE:

DRAWING TITLE:

MECHANICAL LEGENDS, NOTES & ABBREVIATIONS (SHEET 2 OF 2)

DRAWING NUMBER

DRAWING 2 OF 13

M-002.00

	SINGLE DUCT VARIABLE AIR VOLUME OR CONSTANT AIR VOLUME BOX SCHEDULE																										
		ASSOCIATED MAX MIN INLET OUTLET SOUND POWER DATA HOT WATER HEATING COIL																									
	TAG	LOCATION	ASSOCIATED UNIT		MIN CFM	DUCT	DUCT	` ,		HEATING		LWT°F (GPM	EAT °F	LAT °F	MBH	WPD FT	APD IN W.G.	DOMe	FPI	MANUFACTURER AND MODEL REM	REMARKS					
									ONT	CFM	J1 1V1	SIZE, IN	SIZE, IN.	RAD.	DISCH.	CFM	EVVI F	LVVI F	GPIVI	LAIF	LAIF	IVIDIT	WPDFI	APD IN W.G.	ROWS	[7]	MODEL
	VAV/1-0-14	DARK ROOM	XAHU/1	500	250	8	12x10	19	27	500	180	131	0.70	55	85	16.3	0.12	0.17	2	10	TITUS DESV	1-5					
	VAV/1-0-16	CLASSROOM	XAHU/1	960	480	12	16x15	19	23	960	180	122.5	0.16	55	85	31.1	0.16	0.16	2	10	TITUS DESV	1-5					
Ш	VAV/1-0-17	WORK ROOM, FILM DEVELOP	XAHU/1	1,320	660	14	20x17.5	18	19	1,320	180	119.1	0.15	55	85	42.768	0.13	0.15	2	10	TITUS DESV	1-5					

- 1. PROVIDE SHOP DRAWINGS INCLUDING SOUND DATA, BOX PERFORMANCE, AND CONTROLS.
- 2. ALL PERFORMANCE TESTS BASED ON TESTS CONDUCTED IN ACCORDANCE WITH ASHRAE 130-2016 AND AHRI 880-2017.
- 3. CONTROLLER TO BE PROVIDED BY CONTROLS VENDOR AND MOUNTED BY FACTORY.
- 4. PROVIDE INTEGRAL 120V-24V TRANSFORMER AND DISCONNECT SWITCH.
- 5. PROVIDE INTEGRAL COIL AND ACCESS DOOR FOR ALL UNITS SHOWN TO HAVE A COIL ABOVE.

EXHAUST AIR VALVE SCHEDULE													
TAG	LOCATION	ASSOCIATED UNIT	ASSOCIATED VAV	MAX AIRFLOW (CFM)	MIN AIRFLOW (CFM)	BOX SIZE	MANUFACTURER AND MODEL	REMARKS					
EAV/1-0-10	WORK ROOM	XEF/1	XVAV-1-0-17	1,700	-	12	ACCUTROL AVC4212-17-F	1-3					

- 1. ALL PERFORMANCE TESTS BASED ON TESTS CONDUCTED IN ACCORDANCE WITH ASHRAE 130-2016 AND AHRI 880-2017.
- 2. CONTROLLER TO BE PROVIDED BY CONTROLS VENDOR AND MOUNTED BY FACTORY.
- 3. PROVIDE SHOP DRAWINGS INCLUDING SOUND DATA, BOX PERFORMANCE, AND CONTROLS.

EXISTING - RELOCATED SINGLE DUCT VARIABLE AIR VOLUME OR CONSTANT AIR VOLUME BOX NEW PERFORMANCE SCHEDULE																					
TAG	LOCATION	ASSOCIATED UNIT	MAX CFM	MIN CFM	INLET DUCT SIZE, IN	OUTLET DUCT SIZE, IN.	1	OWER DATA NC) DISCH.	HEATING CFM	EWT °F	LWT °F	GPM	HOT WA		TING COIL MBH	WPD FT	APD IN W.G.	ROWS	FPI	MANUFACTURER AND MODEL	REMARKS
XVAV/1-0-15	TECH ROOM, FILM UNLOAD 022C & 022D	XAHU/1	175	88	6	12x8	13	20	175	180	160	0.6	55	85	5.7	0.12	0.03	1	10	TITUS DESV	1
XVAV/1-0-25	CORRIDORS	XAHU/1	590	590	8	12x10	19	27	590	180	160	1.9	55	85	19.1	0.68	0.23	2	10	TITUS DESV	1

1. NEW CONTROLLER TO BE PROVIDED BY CONTROLS VENDOR AND MOUNTED BY FACTORY.

EXISTING - RELOCATED EXHAUST AIR VALVE SCHEDULE													
TAG	LOCATION	ASSOCIATED UNIT	ASSOCIATED VAV	MAX AIRFLOW (CFM)	MIN AIRFLOW (CFM) BOX SIZ		ACTUATOR	MANUFACTURER AND MODEL	REMARKS				
XEAV/1-0-4	DARK ROOM	XEF/1	XVAV-1-0-14	630	-	10	SSA FLP 2-10V	ACCUTROL AVC4210-17-F					
XEAV/1-0-5	DARK ROOM	XEF/1	XVAV-1-0-14	630	-	10	SSA FLP 2-10V	ACCUTROL AVC4210-17-F	1				
XEAV/1-0-6	WORK ROOM, W.I.C. & FILM DEVELOP	XEF/1	XVAV-1-0-17	495	-	8	SSA FLP 2-10V	ACCUTROL AVC4210-17-F					

1. NEW CONTROLLER TO BE PROVIDED BY CONTROLS VENDOR AND MOUNTED BY FACTORY.

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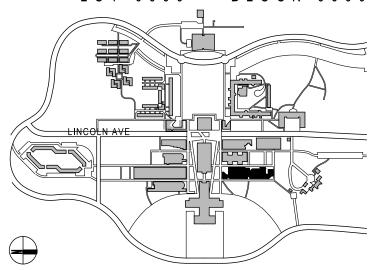
244 FIFTH AVENUE, SUITE B265, NEW YORK, NY 10001 T. 212-787-4558 INFO@LEWANDOWSKAARCHITECT.COM

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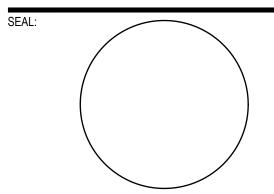


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BID ISSUE



02 02.20.2024 ISSUED FOR BID 12.04.2023 ISSUED FOR CLIENT APPROVAL

NO DATE DESCRIPTION

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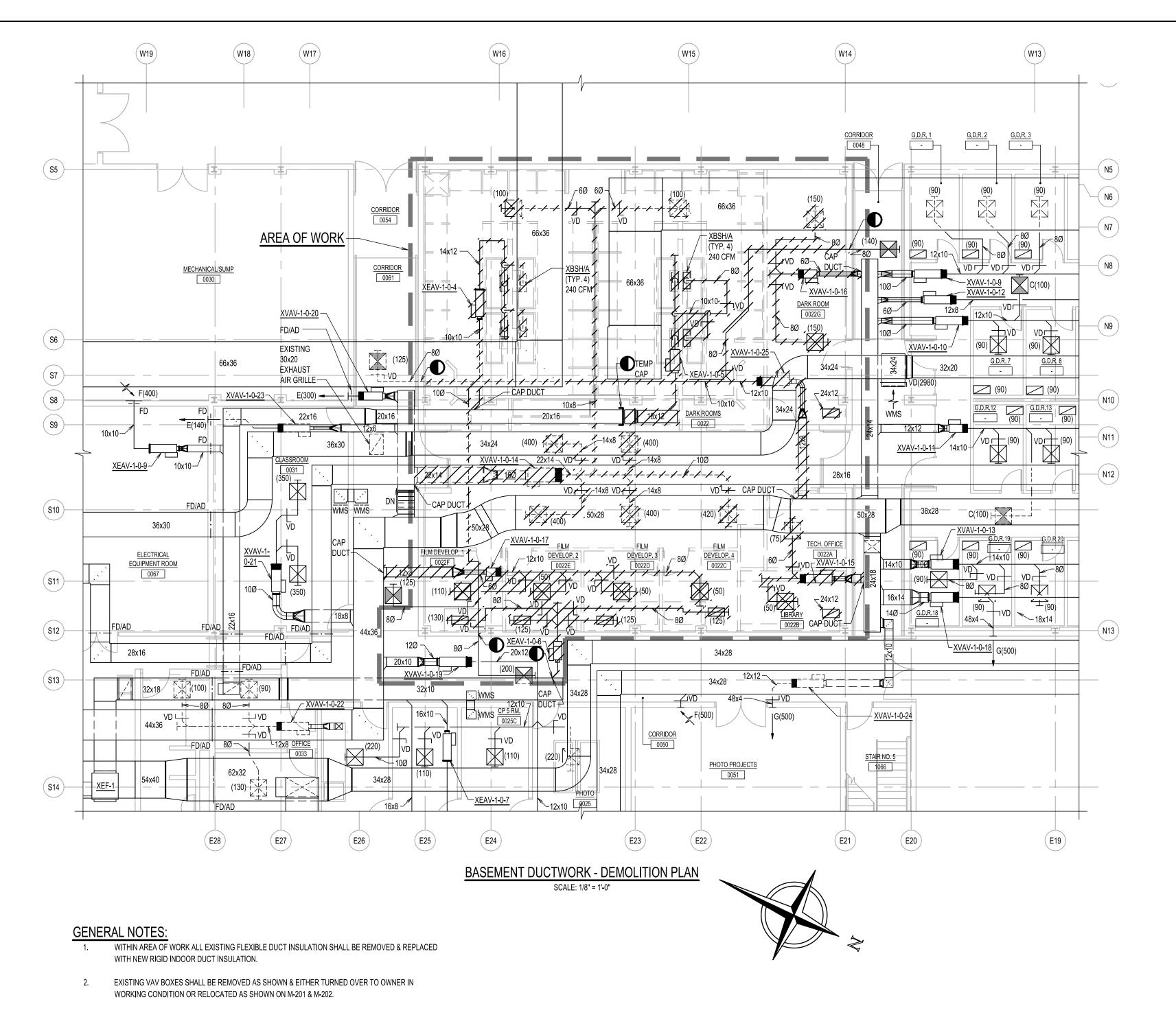
DRAWING TITLE:

MECHANICAL SCHEDULES

DRAWING NUMBER

DRAWING 3 OF 13

M-003.00



VISUAL ARTS BUILDING PHOTO LAB RENOVATION

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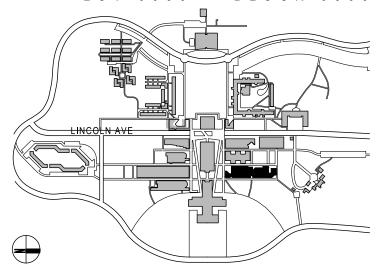
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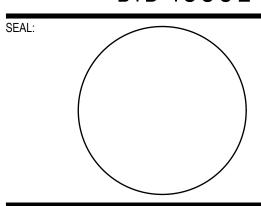


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BID ISSUE



02 02.20.2024 ISSUED FOR BID 12.04.2023 ISSUED FOR CLIENT APPROVAL

NO DATE DESCRIPTION

SCALE: AS NOTED PROJECT NO: 10967 DATE:

MECHANICAL BASEMENT DUCTWORK - DEMOLITION PLAN

DRAWING NUMBER

DRAWING 4 OF 13

M-101.00

PURCHASE

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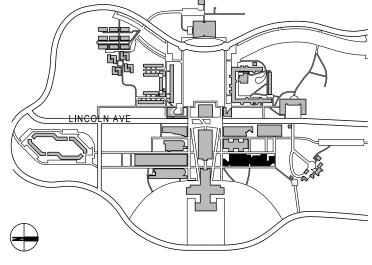
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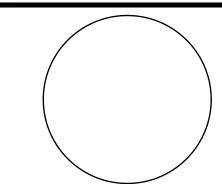
200 OLD COUNTRY R. SUITE 670 MINEOLA, NY 11501

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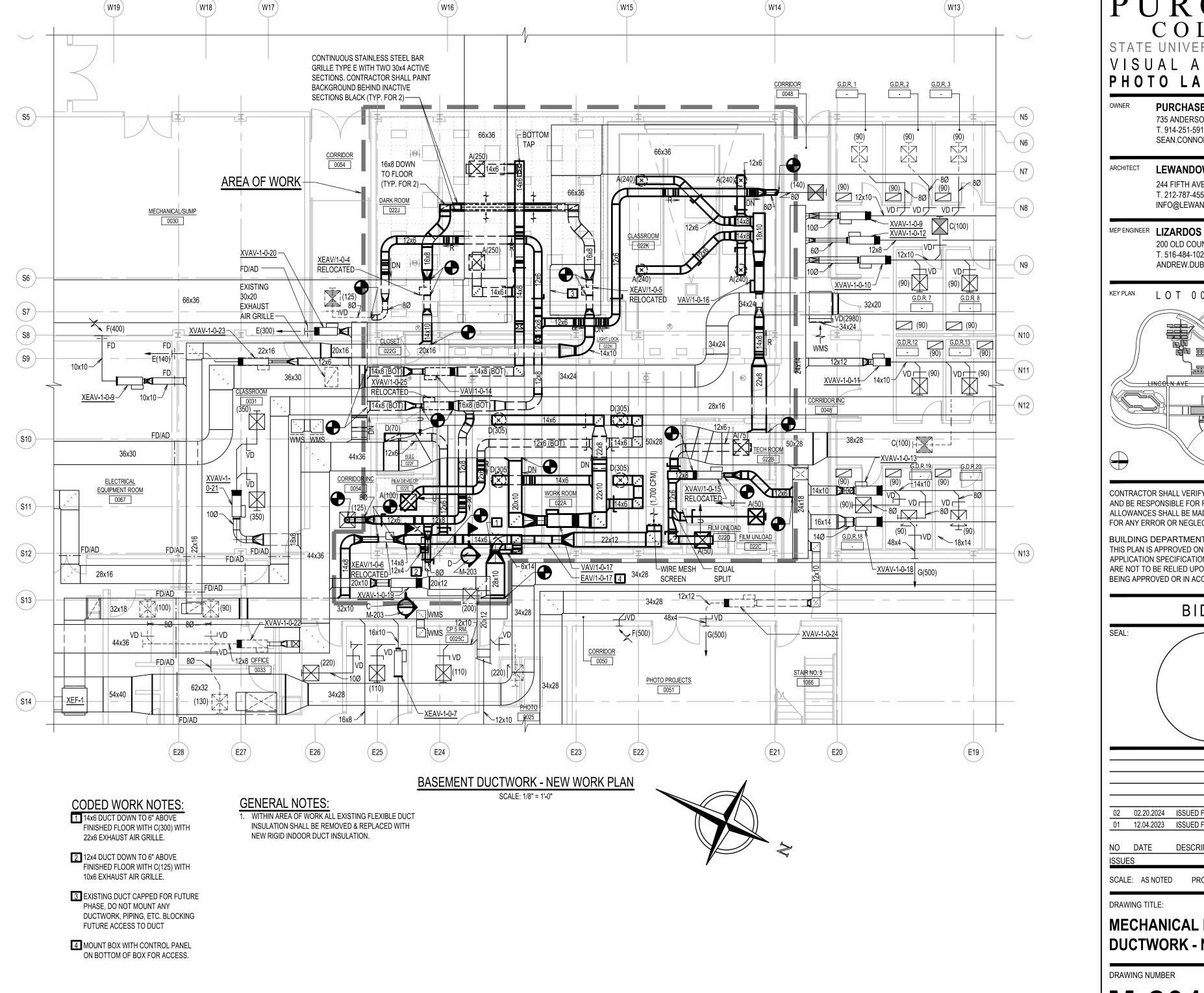
PROJECT NO: 10967 DATE:

MECHANICAL BASEMENT PIPING -

DRAWING 5 OF 13

M-102.00





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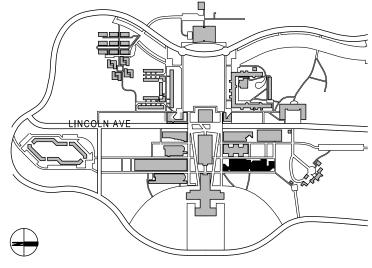
244 FIFTH AVENUE, SUITE B265, NEW YORK, NY 10001 T. 212-787-4558

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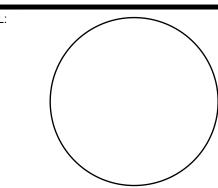


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02.20.2024 ISSUED FOR BID 12.04.2023 ISSUED FOR CLIENT APPROVAL

DESCRIPTION

PROJECT NO: 10967 DATE:

MECHANICAL BASEMENT **DUCTWORK - NEW WORK PLAN**

DRAWING 6 OF 13

M-201.00

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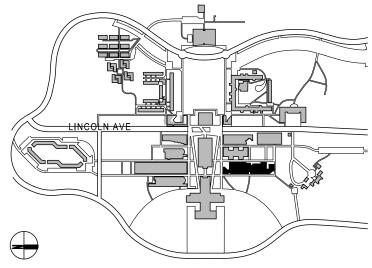
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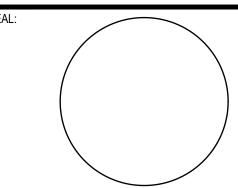


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BID ISSUE



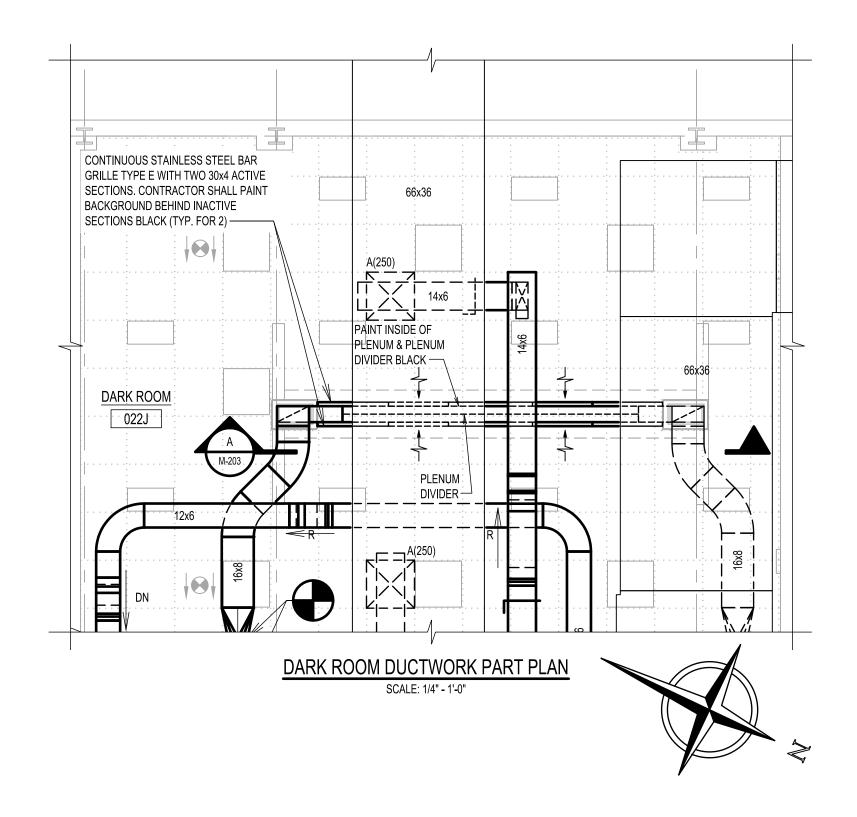
02.20.2024 ISSUED FOR BID

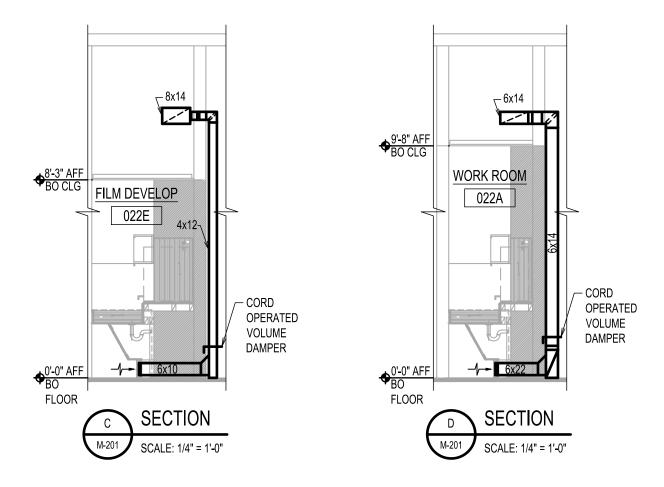
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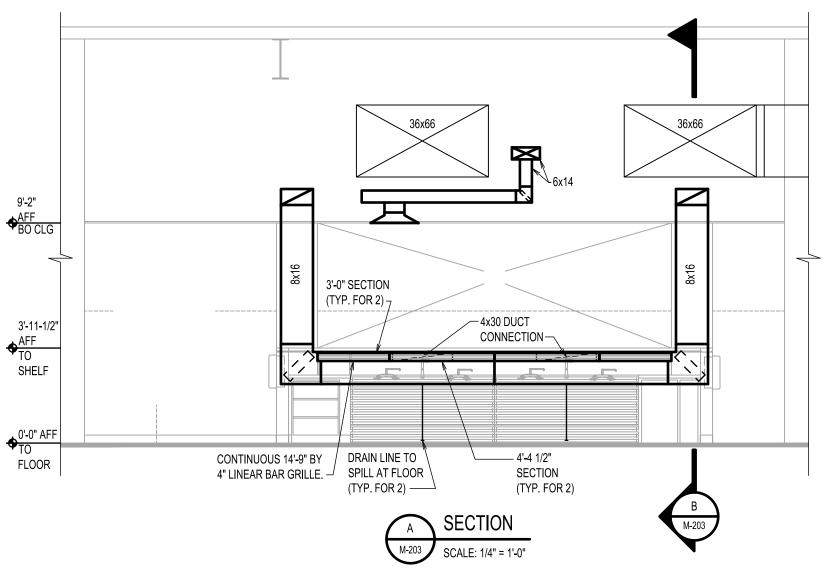
MECHANICAL BASEMENT PIPING -NEW WORK PLAN

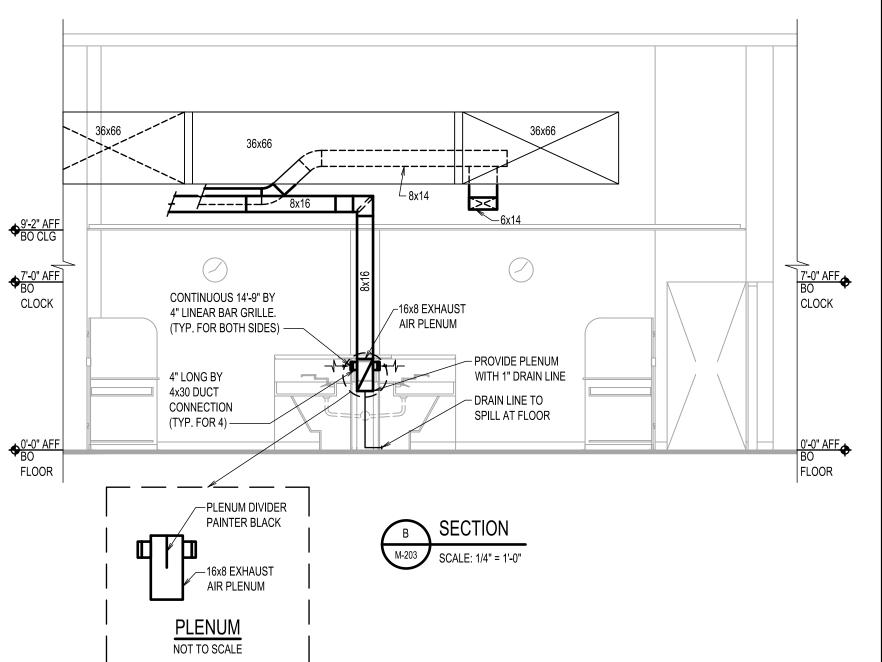
DRAWING 7 OF 13

M-202.00









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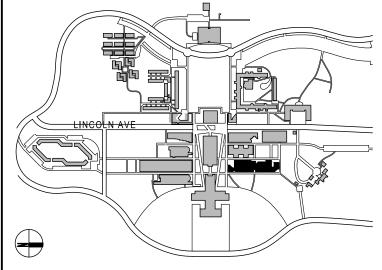
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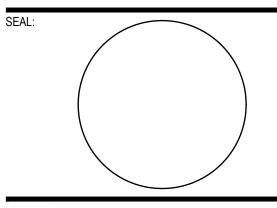


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NO DATE DESCRIPTION

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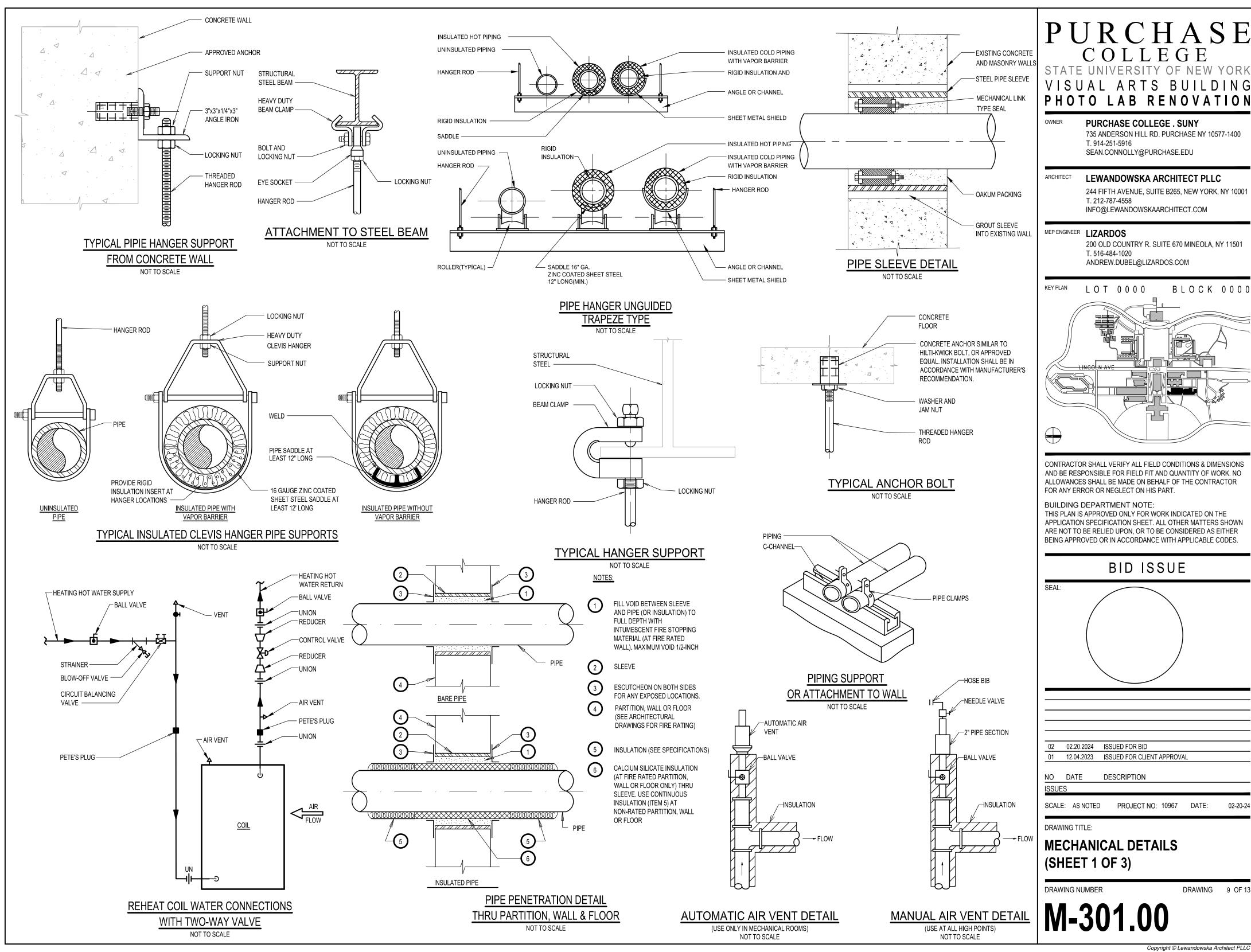
DRAWING TITLE:

MECHANICAL PART PLANS & SECTIONS

DRAWING NUMBER

DRAWING 8 OF 13

M-203.00



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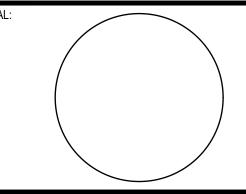
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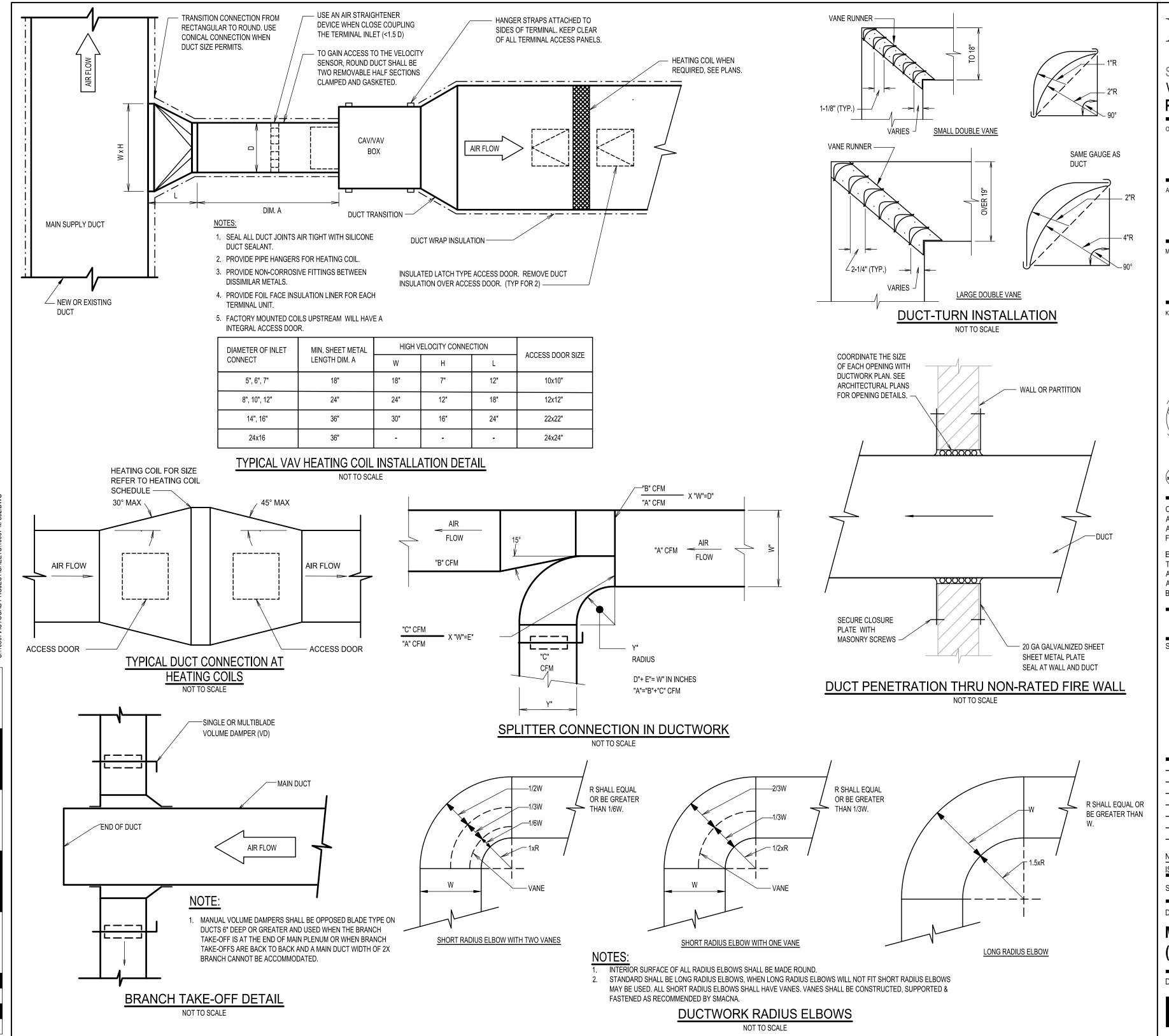
DESCRIPTION

PROJECT NO: 10967 DATE:

MECHANICAL DETAILS

DRAWING

M-301.00



PURCHASE

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VISUAL ARTS BUILDING
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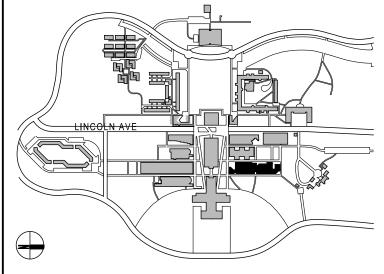
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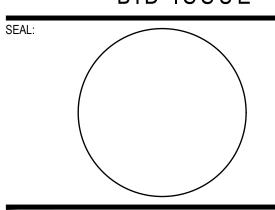


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ISSUES

SCALE: AS NOTED PROJECT NO: 10967 DATE:

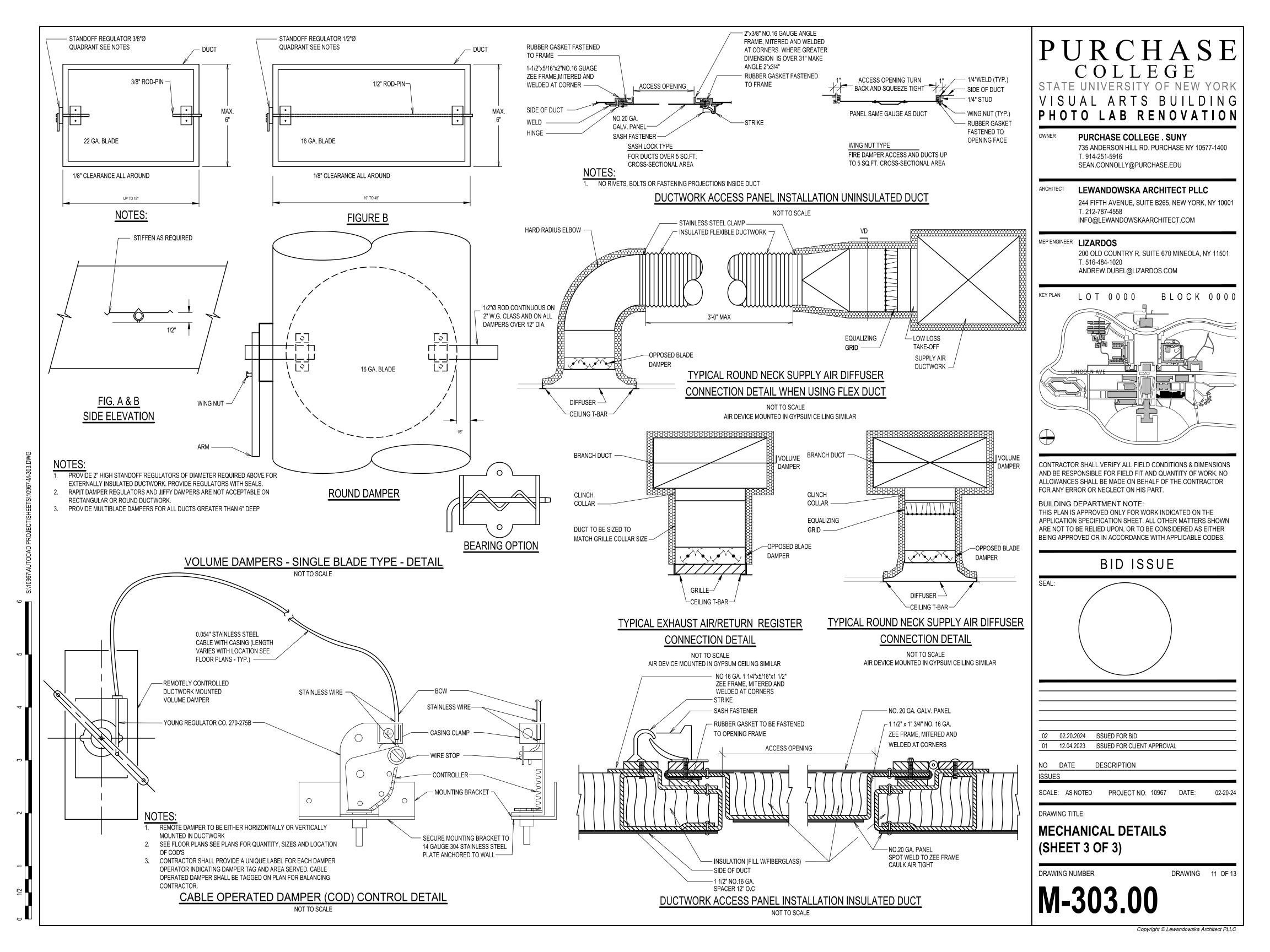
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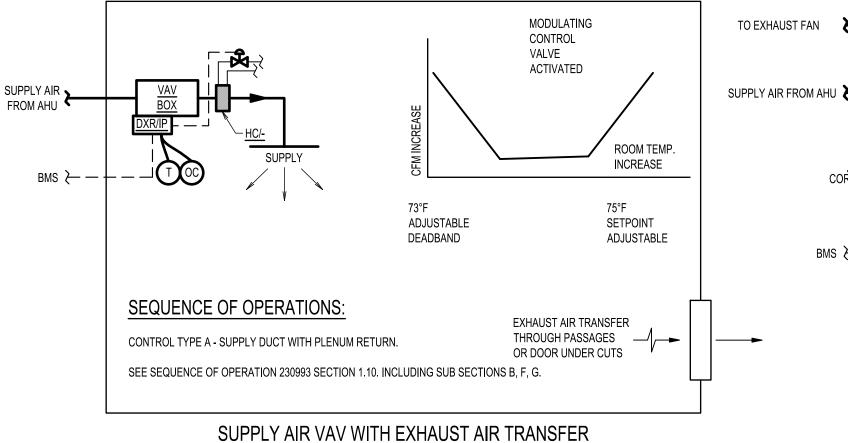
MECHANICAL DETAILS (SHEET 2 OF 3)

DRAWING NUMBER

DRAWING 10 OF 13

M-302.00





ROOM DIAGRAM - TYPE A TYPE BB ROOMS ARE AS ABOVE BUT HAVE TWO EXHAUST BOXES. NOT TO SCALE SUPPLY AIR VAV WITH EXHAUST

BMS ≻ -

VALVE

SEQUENCE OF OPERATIONS:

CONTROL TYPE B - SUPPLY DUCT WITH EXHAUST VALVE TO EXHAUST FAN.

SEE SEQUENCE OF OPERATION 230993 SECTION 1.10. INCLUDING SUB SECTIONS B, F, G.

THE ROOM CONTROLLER/VAV (DXR/IP) SHALL COMMUNICATE WITH ALL BOXES SERVING A ROOM ON A CAT6 LOCAL NETWORK DOWNSTREAM OF THE ROOM CONTROLLER. EXHAUST AIR BOXES WILL COMMUNICATE AND

ROOM DIAGRAM - TYPE B & BB

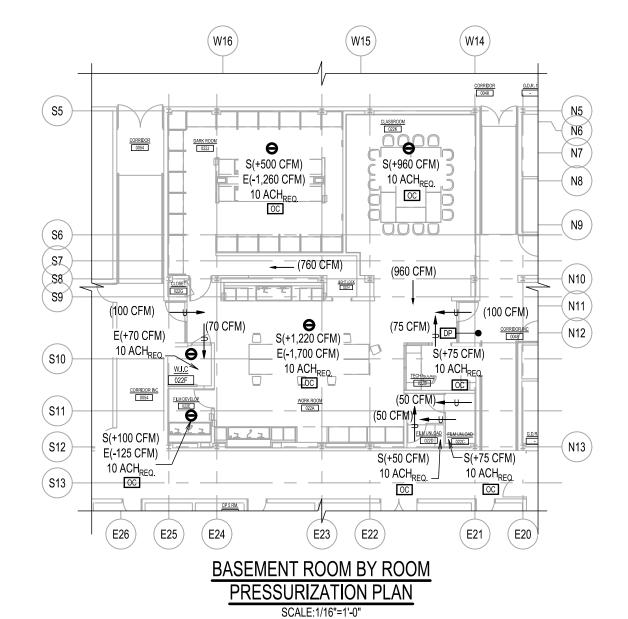
NOT TO SCALE

MODULATE TO MAINTAIN THE REQUIRED EXHAUST AIRFLOW, AND PRESSURIZATION AS NOTED ABOVE.

TYPE B

GENERAL EXHAUST

SUPPLY



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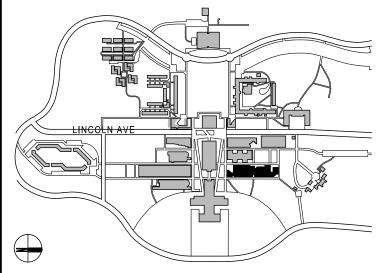
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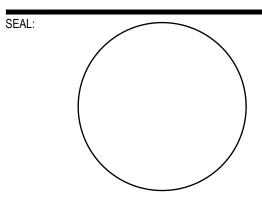


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BID ISSUE



02.20.2024 ISSUED FOR BID 12.04.2023 ISSUED FOR CLIENT APPROVAL

DESCRIPTION NO DATE

PROJECT NO: 10967 DATE: SCALE: AS NOTED

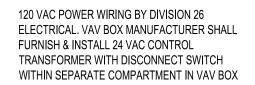
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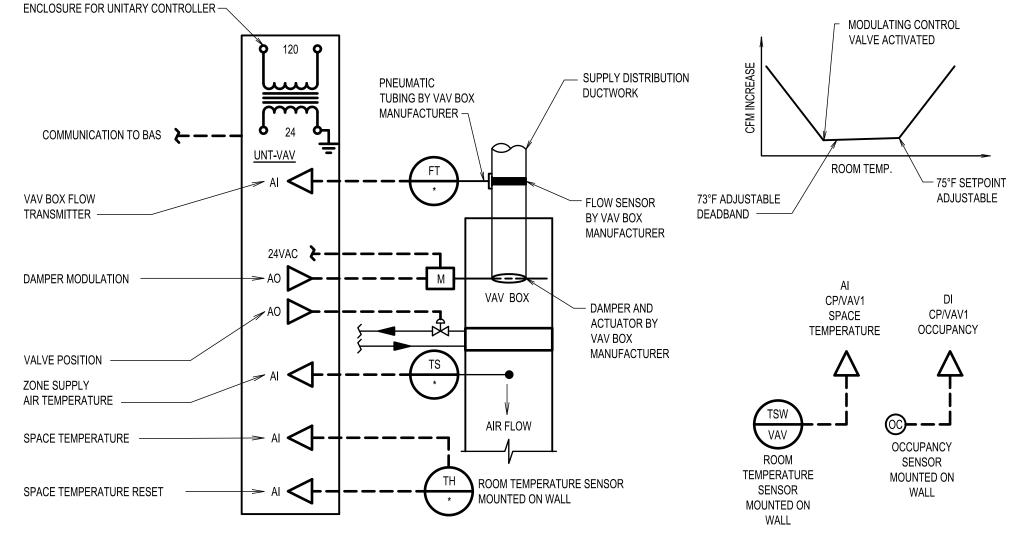
MECHANICAL CONTROLS (SHEET 1 OF 2)

DRAWING NUMBER

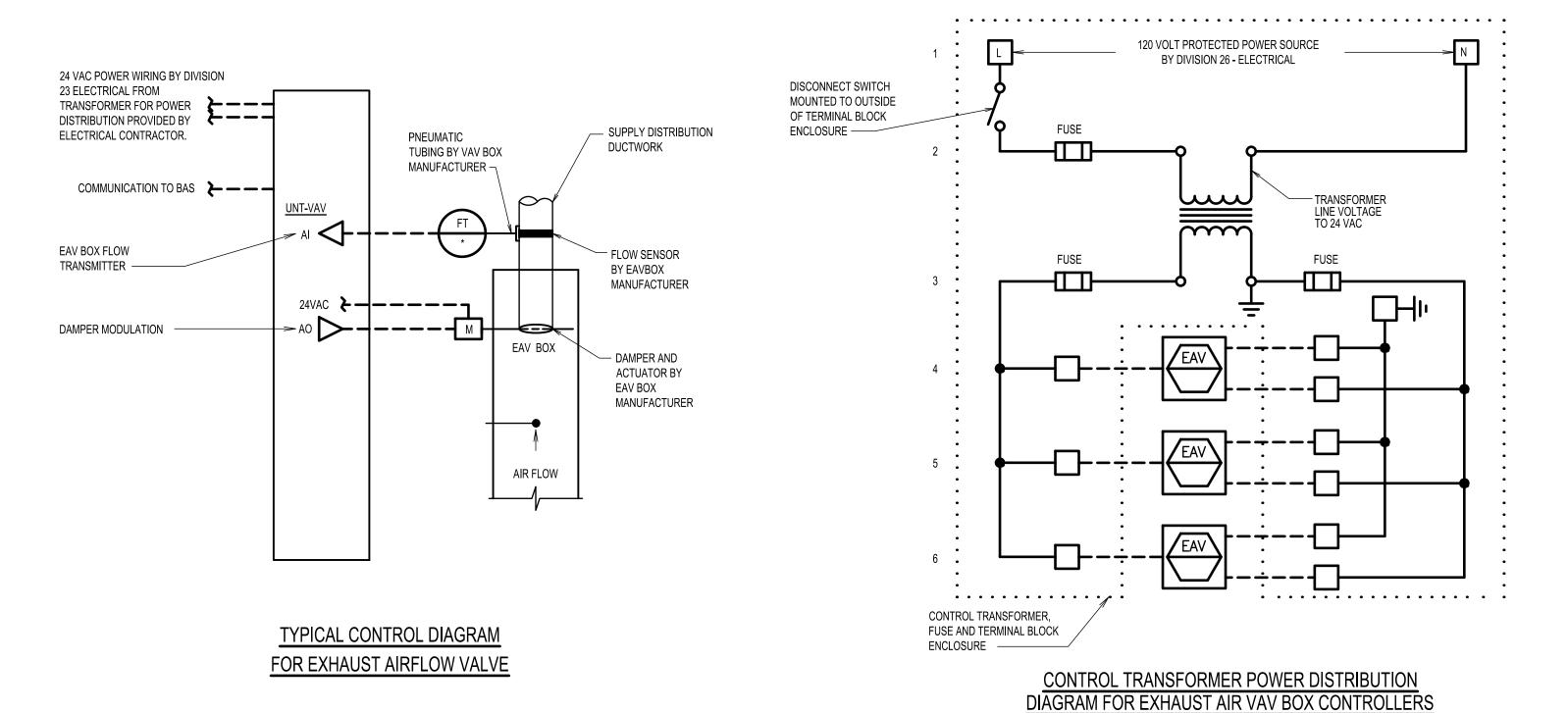
DRAWING 12 OF 13

M-401.00





TYPICAL CONTROL DIAGRAM FOR SUPPLY VAV BOX WITH REHEAT HOT WATER (RHW) COIL



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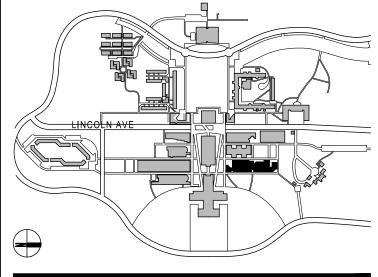
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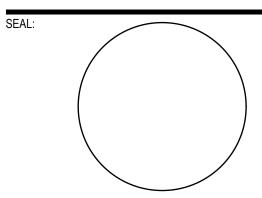


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NO DATE DESCRIPTION

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(TYPICAL FOR ALL EXHAUST AIR VAV CONTROLLERS

SCALE: AS NOTED PROJECT NO: 10967 DATE: 02-

DRAWING TITLE:

MECHANICAL CONTROLS (SHEET 2 OF 2)

DRAWING NUMBER

DRAWING 13 OF 13

M-402.00