

SUMMARY OF WORK:

THE WORK SHALL BE AS SHOWN AND CALLED FOR IN THE CONTRACT DOCUMENTS AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING GENERAL ITEMS OF WORK:

INSTALLATION OF NEW CEILING FAN TYPE (QTY. 10), INCLUDING ALL THE MECHANICAL WORK REQUIRED, AND DELIVERY OF EQUIPMENT, PROVIDE POWER SYSTEMS, AND WIRE PROTECTION AS PER NEC.

PROVIDE MAXIMUM OVER CURRENT PROTECTION FOR CEILING FAN SYSTEMS.

NO CHANGE IN BULK, EGRESS, USE OR OCCUPANCY UNDER THIS APPLICATION.

*SCOPE OF WORK IS NOT RELATED TO FLOOD MITIGATION OR DAMAGES DUE TO FLOOD.

GENERAL NOTES

- CONTRACTOR SHALL COORDINATE THE WORK SHOWN ON THESE DRAWINGS WITH ALL OTHER TRADES.
- ALL WORK TO COMPLY WITH THE PROVISIONS OF THE:
 - 2020 BUILDING CODE OF NEW YORK STATE (BASED ON INTERNATIONAL BUILDING CODE (IBC) 2018).
 - 2020 MECHANICAL CODE OF NEW YORK STATE (BASED ON INTERNATIONAL MECHANICAL CODE (IMC) 2018).
 - 2020 ENERGY CONSERVATION CONSTRUCTION OF NEW YORK STATE (BASED ON INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2018).
- FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE AND/OR BUILDING.
- UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR THE REQUIRED CONSTRUCTION PERMIT(S), FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK. APPLICATION FOR CONSTRUCTION PERMITS SHALL BE PROCESSED THRU THE DOB.
- COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT.
- PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.
- ADEQUATELY BRACE AND PROTECT ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, WRECKAGE, COLLAPSE, DISTORTIONS AND ALL ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
- PATCH REPAIR ALL FLOORS, WALLS, CEILINGS, ETC. DAMAGED OR EXPOSED DUE TO WORK OR REMOVALS AND FINISH TO MATCH ADJOINING SURFACES.
- WHERE MANUFACTURER'S NAMES AND PRODUCT NUMBERS ARE INDICATED ON THE DRAWINGS IT SHALL BE CONSTRUED TO MEAN THE ESTABLISHING OF QUALITY AND PERFORMANCE STANDARDS OF SUCH ITEMS. ALL MANUFACTURED PRODUCTS ARE TO BE ENGINEER/ARCHITECT APPROVED. ALL PRODUCTS MUST BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.
- FIRE STOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTION AS PER SPECIFICATIONS.
- ADDITIONAL NOTES WHICH ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DRAWINGS.
- NO DOB VIOLATIONS ARE BEING CORRECTED IN THIS APPLICATION.
- THE CONTRACTOR SHALL, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR REQUIRED INSPECTIONS, PERMIT(S), FEES, LICENSE AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
- ALL NEW EQUIPMENT SHALL BE SET OR MOUNTED ON A LEVEL BASE CAPABLE OF SUPPORTING AND DISTRIBUTING THE WEIGHT CONTAINED THEREON. ALL EQUIPMENT SHALL BE SECURED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

NOTE TO THE CONTRACTOR:

THE CONTRACTOR IS RESPONSIBLE FOR FORWARDING ALL CONTRACT DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM, FIRE PROTECTION, PLUMBING DRAWINGS AND SPECIFICATIONS) TO ALL OF ITS SUBCONTRACTORS. DURING THE BIDDING PROCESS THE SUB-CONTRACTORS SHALL ASSUME WHERE DIRECTED ON ANY DRAWINGS AS "CUSTOMER PROVIDED" OR "OWNER PROVIDED", THE SUB CONTRACTOR SHALL PROVIDE THE SPECIFIED ITEM. NO ADDED PAYMENT ABOVE THE CONTRACT SUM WILL BE PAID TO THE CONTRACTOR FOR ANY WORK WHICH MAY BE REQUIRED AS A RESULT OF THE CONTRACTORS FAILURE TO COORDINATE THIS INFORMATION DURING THE PRICING PROCESS.

GENERAL NOTES

GENERAL CONTRACTOR SHALL OBTAIN ALL SIGN-OFFS, PERMITS, AND FINAL C.O. FROM THE BUILDING DEPARTMENT.

MECHANICAL GENERAL NOTES

- THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE MECHANICAL CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS OR INDICATED ON THE MECHANICAL/ELECTRICAL/PLUMBING PLANS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER.
- THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM "MECHANICAL WORK" OR "WORK" SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE INSTALLATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS AND LABOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED ON THE DESIGN DOCUMENTS.
- ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS RECOMMENDATIONS.
- THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT, GENERAL CHARACTER, LOCATION AND ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES SHALL BE PROVIDED WITHOUT EXTRA COST THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY.
- CONTRACTOR SHALL VERIFY FIELD CONDITIONS AT THE SITE AND NOTIFY THE OWNER/ENGINEER OF ANY DISCREPANCIES PRIOR TO AWARDED OF BID.
- COORDINATE HVAC SYSTEM INSTALLATION WITH EXISTING CONDITIONS. VISIT SITE PRIOR TO BID AND INVESTIGATE REQUIREMENTS FOR HVAC SYSTEM INSTALLATION. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL CHANGES MADE IN THE FIELD SHALL BE RECORDED ON AS-BUILT DRAWINGS, SHOP DRAWINGS, AND MAINTENANCE MANUALS. PROVIDE FINAL AS-BUILT CONDITIONS IN AUTOCAD FORMAT.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS PRIOR TO CONSTRUCTION, AND PAY ALL RELATED FEES. OWNER WILL HIRE AND PAY FOR EXPEDITOR FEES. ALL PERMIT FEES ARE BY CONTRACTOR.
- ALL MATERIALS, EQUIPMENT AND INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE BUILDING AND MECHANICAL CODES, SMACNA, UL, MANUFACTURERS' RECOMMENDATIONS, AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION.
- IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER.
- CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED BY MECHANICAL INSPECTOR AND/OR ARCHITECT /ENGINEER. CONTRACTOR SHALL NOTIFY A/E OF A SCHEDULED INSPECTION TIME WITHIN 72 HOURS. GENERAL CONTRACTOR SHALL NOT CONCEAL WORK UNTIL APPROVED, REGARDLESS OF SCHEDULE.
- REFER TO SPECIFICATIONS ON DRAWINGS, DETAILS AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION.
- ALL EQUIPMENT, PIPING AND VALVES SHALL HAVE SPECIFIED IDENTIFICATION LABELS AND AS INDICATED.
- CONTRACTOR AND HIS SUBCONTRACTORS SHALL WORK WITH A FULL SET OF LATEST MECHANICAL DRAWINGS. IT IS CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR.
- EACH TRADE CONTRACTOR SHALL RECEIVE ALL DRAWINGS AND SPECIFICATION SECTIONS ISSUED AS PART OF THE OVERALL BID PACKAGE. ALL CONTRACTORS ARE TO RECEIVE, REVIEW, AND COORDINATE ALL OF THEIR WORK AS SHOWN OR REFERENCED ON THE OTHER TRADE DOCUMENTS. ALL WORK SHOWN OR REFERENCED ON THE OTHER TRADE DOCUMENTS SHALL BE INCLUDED AS PART OF THE OVERALL PROJECT SCOPE FOR THAT PARTICULAR DISCIPLINE AND TRADE.
- SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO DELAY THE OVERALL PROGRESS OF THE PROJECT.
- PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING PROCEDURES.
- NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
- REVIEW ALL DISCIPLINES DRAWINGS INCLUDING ARCHITECTURAL AND STRUCTURAL, AND COORDINATE IN FIELD ALL WORK WITH OTHER TRADES AND WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ANY WORK. REPORT ALL CONFLICTS IMMEDIATELY TO ARCHITECT AND/OR ENGINEER.
- VERIFY THE ACTUAL LOCATIONS AND EXACT DIMENSIONS OF ALL EQUIPMENT, CASEWORK, DEVICES, FIXTURES, SWITCHES, SENSORS, ETC. DURING FIELD VISITS AND PRIOR TO PERFORMING ANY ROUGH-IN WORK FOR THE UTILITIES AND DUCTWORK. REPORT DISCREPANCIES IMMEDIATELY TO ARCHITECT AND/OR ENGINEER.
- ALL ADJUSTABLE THERMOSTATS AND TEMPERATURE SENSORS SHALL BE MOUNTED 46" ABOVE FINISHED FLOOR.
- COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND OTHER TRADES.
- COORDINATE THE LOCATIONS OF ALL EQUIPMENT AND REGISTERS WITH THE LATEST ARCHITECTURAL DRAWINGS PRIOR TO PERFORMING AND ROUGH-IN WORK FOR THE UTILITIES.
- SCHEDULE ALL WORK, CUTTING AND BUILDING SERVICE INTERRUPTIONS WITH BUILDING OWNER AND CONSTRUCTION MANAGER PRIOR TO COMMENCING WITH THE WORK.
- ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- PROVIDE ALL ROOFING OPENINGS AND FLASHINGS REQUIRED FOR THE INSTALLATION OF ROOF MOUNTED EQUIPMENT.
- ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-COMBUSTIBLE AND UL APPROVED FOR USE IN A RETURN AIR PLENUM SPACE. ALL WIRING SHALL BE NON COMBUSTIBLE OR SHALL BE ENCLOSED IN METAL CONDUIT OR PROTECTED BY A SHEET METAL COVER SECURED WITH METAL FASTENERS.
- INSULATION, FITTINGS, COVERS AND FINISHES IN RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.
- PROVIDE ACCESS PANELS AS REQUIRED FOR ALL VALVES, DAMPERS, CONTROLS, OR OTHER EQUIPMENT.
- ALL ROOFING WORK SHALL BE PERFORMED BY AUTHORIZED ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY.
- SUPPORT ALL EQUIPMENT, PIPING AND DUCTWORK FROM BUILDING STRUCTURE TO PROVIDE A VIBRATION FREE INSTALLATION. OTHERWISE ADHERE TO THE DETAILS IN THE CONTRACT DOCUMENTS. NOTIFY ARCHITECT AND/OR STRUCTURAL ENGINEER OF ALL WEIGHTS AND METHODS OF SUPPORT. PROVIDE DETAILS TO COORDINATE CONCRETE PADS AND STEEL PLATFORMS REQUIRED FOR MECHANICAL WORK.
- CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK.
- CONTRACTOR SHALL PROTECT ALL SURFACES DURING RIGGING AND CONSTRUCTION INCLUDING BUT NOT LIMITED TO THE LOBBY AND HALLWAY FLOORS AND WALLS. CONTRACTOR SHALL RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER.
- REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY.
- PROVIDE ACCESS PANELS IN NON LAY-IN-CEILINGS FOR SERVICE AND MAINTENANCE OF ALL CONCEALED EQUIPMENT AND DEVICES, SUCH AS HEAT PUMPS, ELECTRIC DUCT HEATERS, COILS, SMOKE DETECTORS, BALANCING DAMPERS AND FIRE DAMPERS.
- ALL DUCT DIMENSIONS ARE IN NEW CLEAR DIMENSIONS.
- COORDINATE LOCATION OF NEW DUCTWORK, AIR DEVICES AND EQUIPMENT WITH LIGHT FIXTURES, SPRINKLER PIPING AND HYDRONIC PIPING.
- SHEETMETAL FITTINGS SHOWN SHALL BE PROVIDED. NO SUBSTITUTES WILL BE ALLOWED WITHOUT PRIOR CONSENT FROM ENGINEER.
- PROVIDE BALANCING DAMPERS IN ALL DUCT BRANCHES TO AIR DEVICES.
- EQUIPMENT INDICATED ON THE DRAWINGS, TOGETHER WITH ITS BASE AND /OR SUPPORT, DUCTWORK CONNECTIONS, SERVICE CLEARANCES, WALL, FLOOR AND ROOF PENETRATIONS, AND ELECTRICAL REQUIREMENTS IS BASED ON THE MODEL INDICATED IN THE SCHEDULES. IF CONTRACTOR FURNISHES AN EQUIVALENT SUBSTITUTION, THE CONTRACTOR SHALL MAKE THE REQUIRED MODIFICATIONS IN THE WORK WITHOUT THE CHANGE IN CONTRACT AMOUNT.
- DUCTWORK SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR. DUCTWORK SHALL NOT COVER OR LIMIT ACCESS TO EXISTING J-BOXES.
- INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND APPLICABLE CODES.
- VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT AND PIPE TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
- PROVIDE VIBRATION ISOLATION FOR ROTATING, REVOLVING OR RECIPROCATING EQUIPMENT, INCLUDING DUCTWORK CONNECTIONS TO THIS EQUIPMENT TO PREVENT TRANSMISSION OF NOISE AND VIBRATION TO BUILDING STRUCTURE AND OCCUPIED SPACES. VIBRATION ISOLATION DEVICES SHALL INCLUDE SPRING VIBRATION ISOLATORS, NEOPRENE PADDING AND DUCT /PIPE FLEXIBLE CONNECTIONS.
- PROVIDE FLEXIBLE CONNECTIONS AT ALL FANS INLET AND OUTLET CONNECTIONS.
- EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM DUST, DIRT AND DAMAGE UNTIL FINAL ACCEPTANCE CLOSE ALL DUCT AND EQUIPMENT OPENINGS DURING CONSTRUCTION WITH SUITABLE PROTECTIVE COVERING BEFORE, DURING AND FOLLOWING INSTALLATION.
- REMOVE TEMPORARY AIR FILTERS AND PROVIDE NEW FILTERS IN ALL AIR CONDITIONING EQUIPMENT WITHIN THE SCOPE OF WORK UPON COMPLETION OF CONSTRUCTION AND BEFORE BALANCING.
- CONTROL WIRE AND CONDUIT SHALL COMPLY WITH NEC AND ELECTRICAL SPECIFICATIONS.
- ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED.
- PROVIDE SELECTIVE CEILING DEMOLITION TO PLACE NEW DUCTWORK AND DIFFUSERS. REPLACE DAMAGED CEILING TILES AND GRIDS RESULTING FROM DEMOLITION. NEW CEILING TILES SHALL MATCH WITH EXISTING.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND COORDINATION WITH ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO STRUCTURAL, LIGHTING, ELECTRICAL, PLUMBING, AND OTHER EXISTING AND NEW WORK. VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO PURCHASING EQUIPMENT. ALL DISCREPANCIES OR POTENTIAL PROBLEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO BIDDING. PROVIDE ADDITIONAL MATERIALS AND LABOR TO RELOCATE OR REPLACE MECHANICAL WORK AS REQUIRED TO ALLOW SPACE FOR THE WORK OF ALL TRADES.
- THE WORK INCLUDES CONNECTION TO AN EXISTING MECHANICAL, ELECTRICAL, FIRE ALARM, AND CONTROL SYSTEMS ON THE PROJECT. CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ANY LABOR AND MATERIALS NECESSARY TO UNCOVER, TRACE, TEST, FIELD VERIFY, AND MEASURE ANY EXISTING EQUIPMENT OR SYSTEMS THAT ARE AFFECTED BY THE WORK UNDER THIS CONTRACT.
- THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS.
- THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS RELATED TO REMOVING AND REPLACING ALL CEILINGS AS REQUIRED FOR THE MECHANICAL AND ELECTRICAL WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL INCLUDE IN THE BID THE RELOCATION OF ANY EXISTING JUNCTION BOXES (OF ANY KIND) THAT WILL BE INACCESSIBLE DUE TO THE WORK IN THIS PROJECT.
- PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT.
- THE CONTRACTOR SHALL INCLUDE IN THEIR BID COSTS REQUIRED TO RELOCATE EXISTING CONDUITS OF ANY KIND IN ORDER TO INSTALL NEW EQUIPMENT, DUCTWORK, AND PIPING. .
- SEISMIC REQUIREMENTS AS SPECIFICATIONS.

DUCT SYMBOLS

- OR NEW WORK
- RETURN DUCTWORK
- REMOVE EXISTING DUCTWORK
- A.D. ACCESS DOOR (SIZES VARY AS SHOWN ON DRAWINGS)
- INDICATES SUPPLY AIR
- INDICATES EXHAUST AIR
- FIRE DAMPER
- COMBINATION FIRE-SMOKE DAMPER
- SMOKE DAMPER
- VOLUME DAMPER AND ACCESS DOOR
- MOTORIZED DAMPER AND ACCESS DOOR
- GRAVITY DAMPER
- DOOR UNDERCUT

ABBREVIATIONS

- A.D. - ACCESS DOOR
- A.A.D. - AUTOMATIC AIR OPERATED LOUVER DAMPER
- ACCU - AIR COOLED CONDENSING UNIT
- C.F.M. - CUBIC FEET PER MINUTE
- C.C. - COOLING COIL
- C.O.D. - CLEAN OUT DOOR
- C.P. - CONDENSATE PUMP
- D.N. - DRAIN
- (E) - EXISTING
- EA. - EXHAUST AIR (CFM)
- EF. - EXHAUST FAN
- F.D. - FIRE DAMPER
- GR. - GRILLE (WITH VOLUME DAMPER)
- HMI - HUMAN MACHINE INTERFACE
- M.A.D. - MANUAL AIR OPERATED LOUVER DAMPER
- LDR. - LINEAR DIFFUSER RETURN
- LDS. - LINEAR DIFFUSER SUPPLY
- O.A.I. - OUTSIDE AIR INTAKE (FRESH AIR INLET)
- RA. - RETURN AIR (CFM)
- SA. - SUPPLY AIR (CFM)
- SF. - SUPPLY FAN
- TEF. - TOILET EXHAUST FAN
- VENT. - VENTILATION
- WMS - WIRE MESH SCREEN

MECHANICAL DRAWING LIST

Dwg. No.	Drawing Title
M-001.00	MECHANICAL - SYMBOLS, LEGENDS & NOTES
M-002.00	MECHANICAL - EQUIPMENT SCHEDULE & DETAILS
DM-101.00	MECHANICAL - DEMOLITION PART PLAN
M-101.00	MECHANICAL - NEW WORK PART PLAN

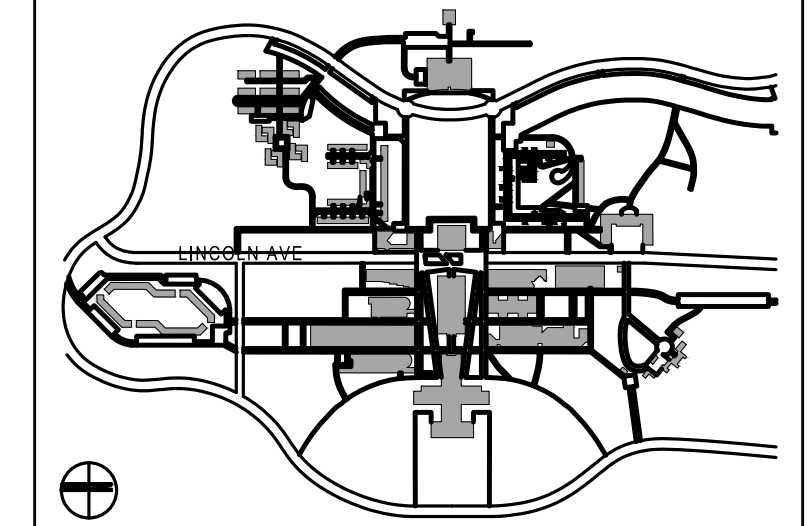
PURCHASE COLLEGE
STATE UNIVERSITY OF NEW YORK
RESIDENTIAL COMPLEX A
DINING HALL RENOVATION

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KEY PLAN



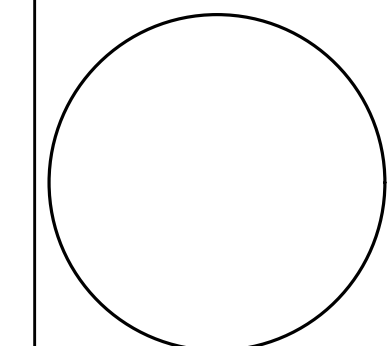
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02	05.14.2024	ISSUED FOR BID
01	04.26.2024	ISSUED FOR CLIENT REVIEW
NO	DATE	DESCRIPTION

ISSUES

SEAL:



ISSUE:

ISSUED FOR BID

SCALE: AS NOTED | PROJECT NO: 2403 | DATE: 03.25.2024

DRAWING TITLE:
MECHANICAL - SYMBOLS, LEGENDS & NOTES

DRAWING NUMBER: **1 OF 4** | DRAWING: **M-001.00**

PURCHASE COLLEGE

STATE UNIVERSITY OF NEW YORK
RESIDENTIAL COMPLEX A
DINING HALL RENOVATION

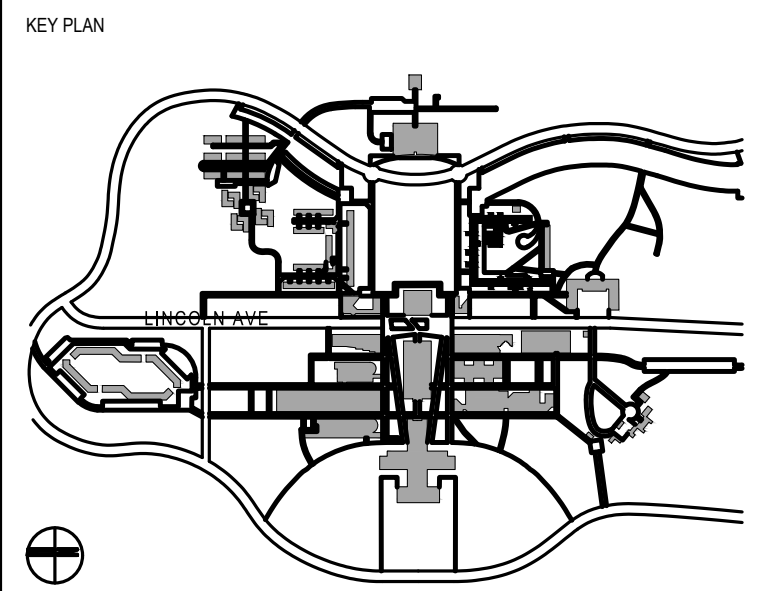
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CEILING FAN (WITH LIGHT) SCHEDULE													
UNIT TAG	SERVICE	LOCATION	TOTAL AIR CAPACITY (CFM)	SPEED MIN/MAX (RPM)	WATTS (MAX)	TYPE OF FAN	V/PH/Hz	DIMENSIONS (IN) $\phi \times H$	WEIGHT (LBS)	MAX SOUND LEVEL (dBA)	MANUFACTURER	MODEL	REMARK
CF-1	SERVING AREA	INDOOR - SERVING AREA	5,204	60/260	19.3	CEILING FAN WITH LIGHT	100-240/1/60	52X11.5	11.9	<35	BIG ASS FANS	HAIKU L	SEE NOTES
<p>NOTES:</p> <ol style="list-style-type: none"> FOR INDOOR INSTALLATIONS ON FLAT OR SLOPED CEILINGS 8FT OR TALLER. COORDINATE COLOR SELECTION WITH ARCHITECT. PROVIDE HANDHELD REMOTE CONTROL. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL POWER AND LIGHT CONNECTIONS. 													

1 EQUIPMENT SCHEDULE N.T.S

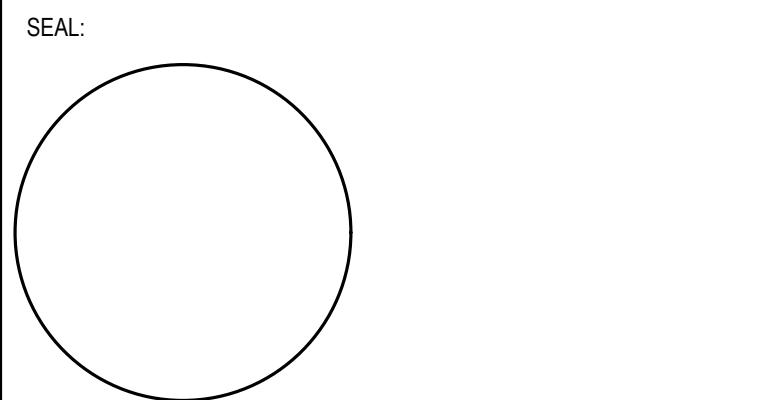


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ISSUES

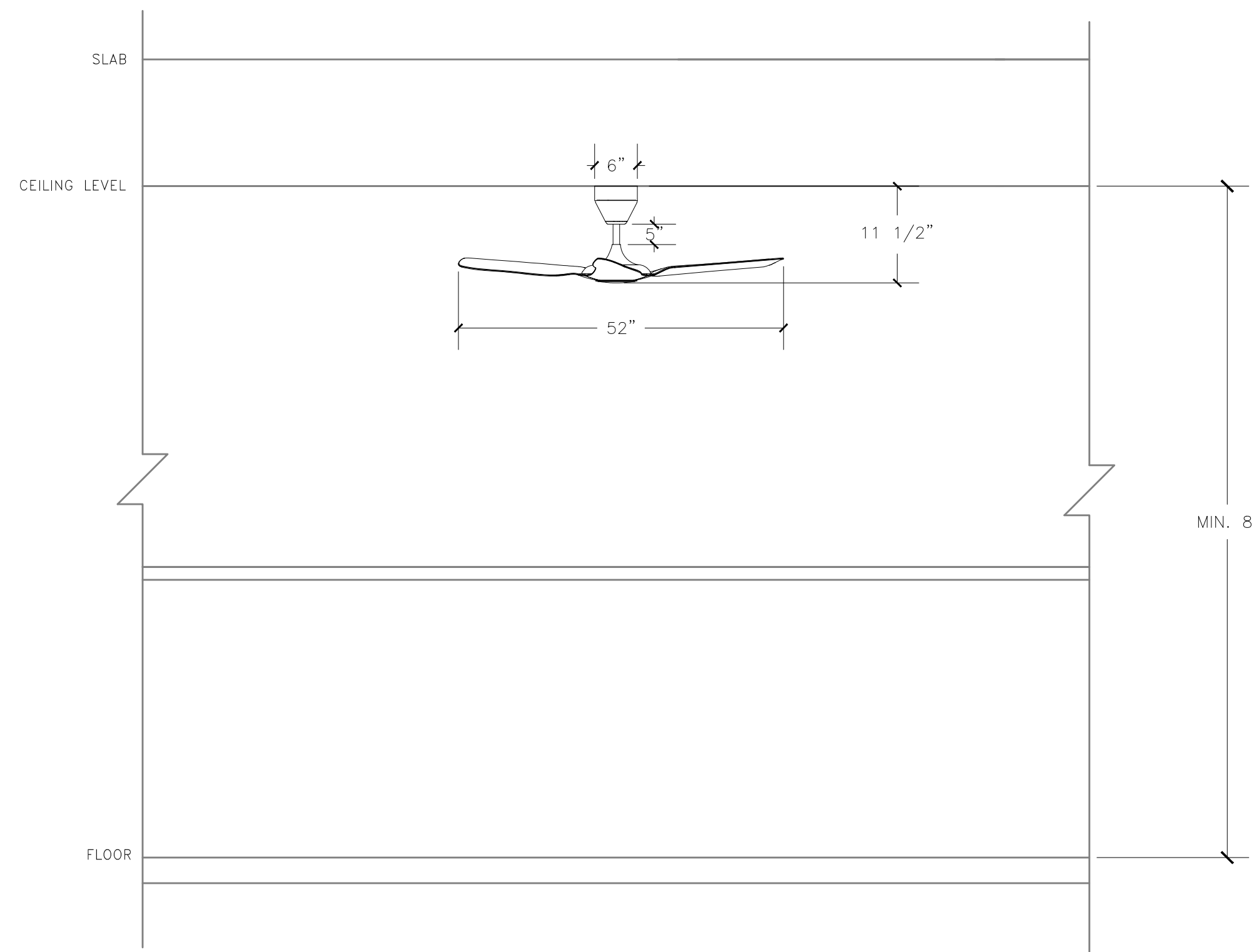


ISSUE:
ISSUED FOR BID

SCALE: AS NOTED | PROJECT NO: 2403 | DATE: 03.25.2024

DRAWING TITLE:
MECHANICAL - EQUIPMENT SCHEDULE AND DETAILS

DRAWING NUMBER: 2 OF 4 | DRAWING: M-002.00



2 TYPICAL CEILING FAN ELEVATION DETAIL N.T.S

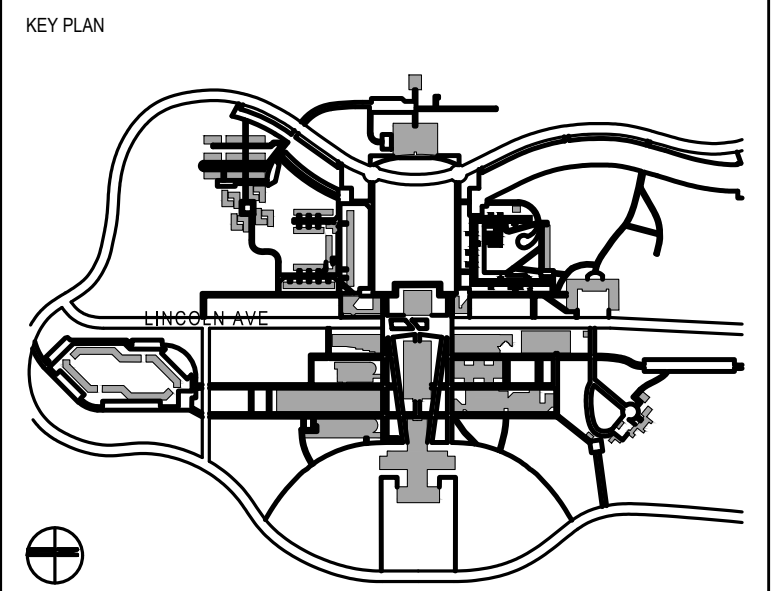
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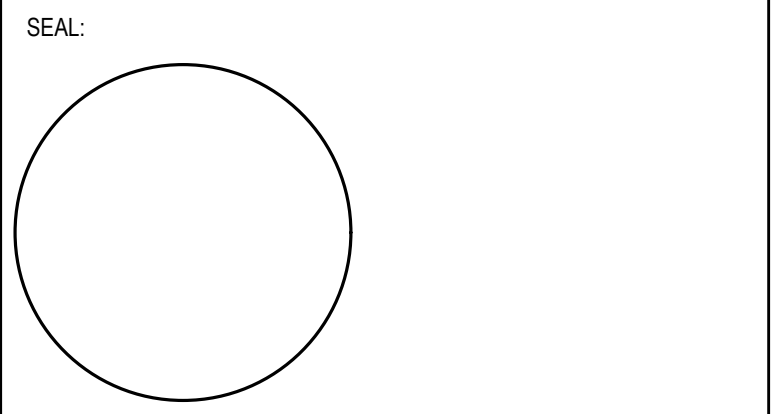


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NO	DATE	DESCRIPTION
02	05.14.2024	ISSUED FOR BID
01	04.26.2024	ISSUED FOR CLIENT REVIEW

ISSUES

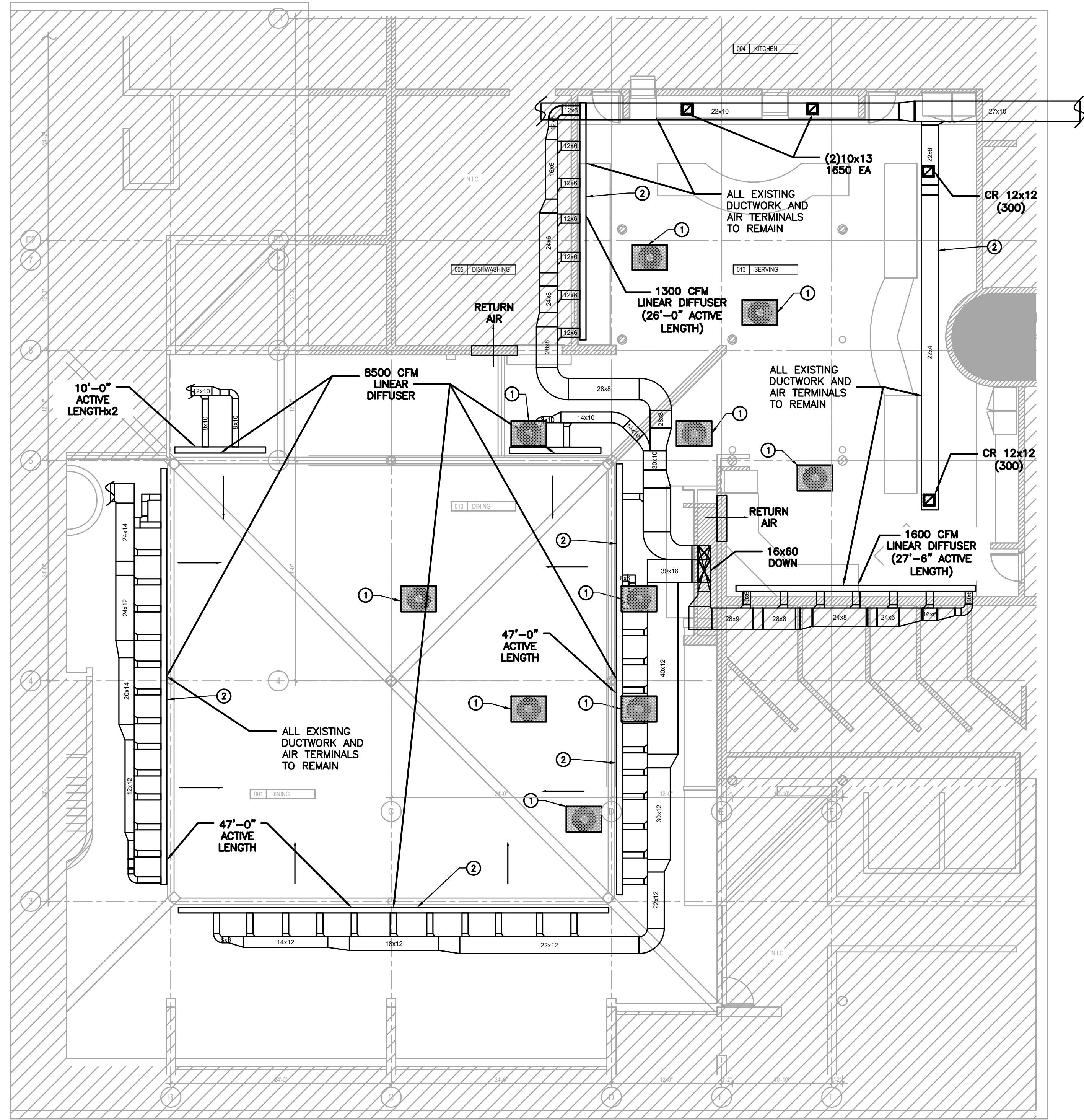


ISSUE: ISSUED FOR BID

SCALE: AS NOTED PROJECT NO: 2403 DATE: 03.25.2024

DRAWING TITLE: MECHANICAL - DEMOLITION PART PLAN

DRAWING NUMBER: 3 OF 4 DRAWING: DM-101.00



GENERAL DEMOLITION NOTES

- ALL DEMOLITION AND REMOVAL WORK SHALL BE COMPLETED AS INDICATED AND NOTED ON THE DRAWING AND AS SPECIFIED.
- BEFORE STARTING WORK MAKE A THOROUGH EXAMINATION OF THOSE PORTIONS OF THE STRUCTURE IN WHICH THE WORK IS TO BE PERFORMED. CHECK ALL THE WORK ADJOINING OR AT UNDERLYING LOCATIONS. REPORT TO THE ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK. DO NOT START THE WORK UNTIL SUCH CONDITIONS HAVE BEEN EXAMINED AND A COURSE OF ACTIONS MUTUALLY AGREED UPON.
- PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR SHALL CALL TO THE ATTENTION OF THE ENGINEER OF RECORD AND SUNY-PURCHASE COLLEGE ANY DAMAGE, CRACKS AND OTHER IMPERFECTIONS IN THE WORK ADJACENT TO THE DEMOLITION AREAS.
- BEFORE STARTING DEMOLITION OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE DEVICES WHERE REQUIRED, IN STRICT ACCORDANCE WITH OSHA RULES AND REGULATIONS AND ALL APPLICABLE CODES.
- TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FROM RISING INTO ANY ADJACENT OCCUPIED SPACES, PARTITION TO BE SLAB TO SLAB. UNDER NO CIRCUMSTANCES SHALL DUST ENTER ADJACENT OCCUPIED SPACES. PROTECTION MUST BE MAINTAINED AT ALL TIMES.
- KEEP ALL ADJOINING PUBLIC AREAS CLEAN AND FREE OF DEBRIS OF CONSTRUCTION MATERIALS DURING WORKING HOURS. PROVIDE SAFE CONDITIONS FOR THE GENERAL PUBLIC AND WORKMEN.
- DEMOLISHED MATERIALS, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A LEGAL MANNER. ALL DISPOSAL OFF SITE, ON A REGULAR BASIS, AND RUBBISH CARTING IS DEMOLITION RESPONSIBILITY.
- REPAIR AND/OR REPLACE EXISTING ITEMS NOT SCHEDULED OR NOTED TO BE DEMOLISHED, AND NOT SPECIFIED TO BE REMOVED, BUT WHICH BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE ANY AND ALL SUCH REPAIRS, REPLACEMENTS AND MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION AT THE TIME OF DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE SUNY-PURCHASE COLLEGE.
- PATCH, FILL AND REPAIR ALL SURFACES DISTURBED, CUT, DAMAGED, IN NEED OF REPAIR OR MADE IMPERFECT BY ALTERATIONS OR REMOVAL WORK AND AS REQUIRED TO PREPARE SURFACES FOR NEW MATERIAL AND ARRANGEMENTS.
- G.C. IS RESPONSIBLE FOR PROVIDING TEMPORARY SUPPORT AND SHORING OF EXISTING CEILINGS, PARTITIONS, ETC. DURING DEMOLITION AND RENOVATION.
- EXISTING FINISHES TO REMAIN THAT ARE DISTURBED BY DEMOLITION AND/OR RENOVATION SHALL BE PATCHED TO MATCH EXISTING.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY DUST PARTITIONS AND DEBRIS PROTECTION BETWEEN AREAS OF CONSTRUCTION AND AREAS IN WHICH NO WORK IS TAKING PLACE. LOCATION OF SUCH PROTECTION SHALL BE VERIFIED WITH THE YMCA PRIOR TO COMMENCING WORK AND IN COORDINATION WITH THE PROGRESSION OF THE WORK SCHEDULE.
- ALL OPENINGS DUE TO REMOVAL OF EXISTING ELECTRICAL OUTLETS, SWITCHES ETC. AND MECHANICAL ITEMS SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING FINISHES AND/OR NEW FINISHES. ALL PERSONNEL TO BE ON SITE MUST BE SIGNED IN AND OUT WHILE WORKING IN ANY LOCATIONS OF THE BUILDING.
- ALL PERSONNEL MUST REPORT TO SECURITY ANY TIME WHILE WORKING ON PROPERTY. ALL DOORS AND OPENINGS MUST BE COMPLETELY SECURED AT THE END OF EACH WORK DAY.
- SITE ACCESS AND SECURITY WILL BE STRICTLY ENFORCED. FAILURE TO ABIDE BY YMCA RULES WILL RESULT IN IMMEDIATE DISMISSAL OF ANY INDIVIDUAL OR COMPANY.
- CONTRACTOR TO COORDINATE ALL DEMOLITION WORK IN CONJUNCTION WITH ASBESTOS ABATEMENT AND REMOVAL WORK. ANY AND ALL PIPING OR EQUIPMENT WHICH IS COVERED WITH ASBESTOS CONTAINING MATERIAL THAT IS TO BE REMOVED AS REQUIRED FOR THE SATISFACTORY COMPLETION OF THE WORK SHALL BE CLEANED LAWFULLY OF ALL SUCH MATERIAL PRIOR TO WORK.

KEY NOTES

- REMOVE EXISTING CEILING FAN. REFER TO ELECTRICAL DRAWINGS FOR POWER DISCONNECTIONS.
- CONTRACTOR TO TAKE READINGS OF SA DIFFUSER FLOW (CFM VALUE) FOR ALL EXISTING DIFFUSERS IN THE VICINITY OF THE SCOPE OF WORK AREA PREVIOUS TO ANY DEMOLITION WORK. PROVIDE PRE-CONSTRUCTION AIR BALANCING REPORT TO EOR.

1 MECHANICAL - DEMOLITION PART PLAN
1/8" = 1'-0"

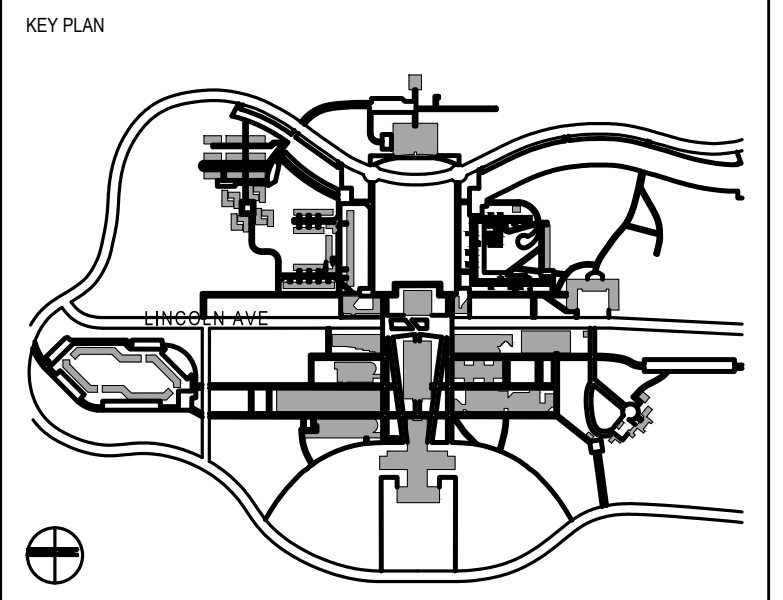
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STATE UNIVERSITY OF NEW YORK
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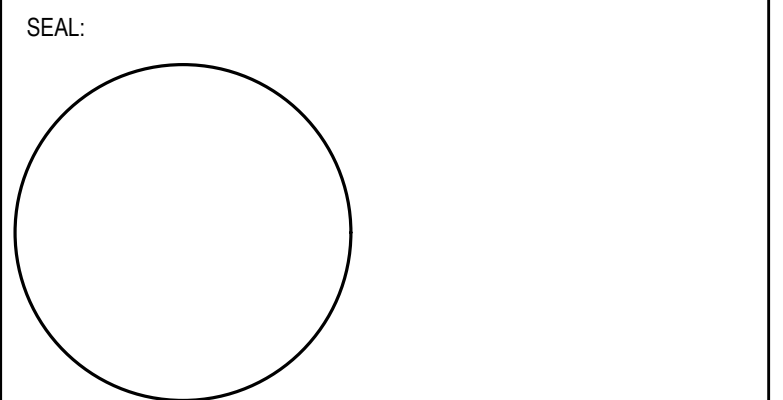


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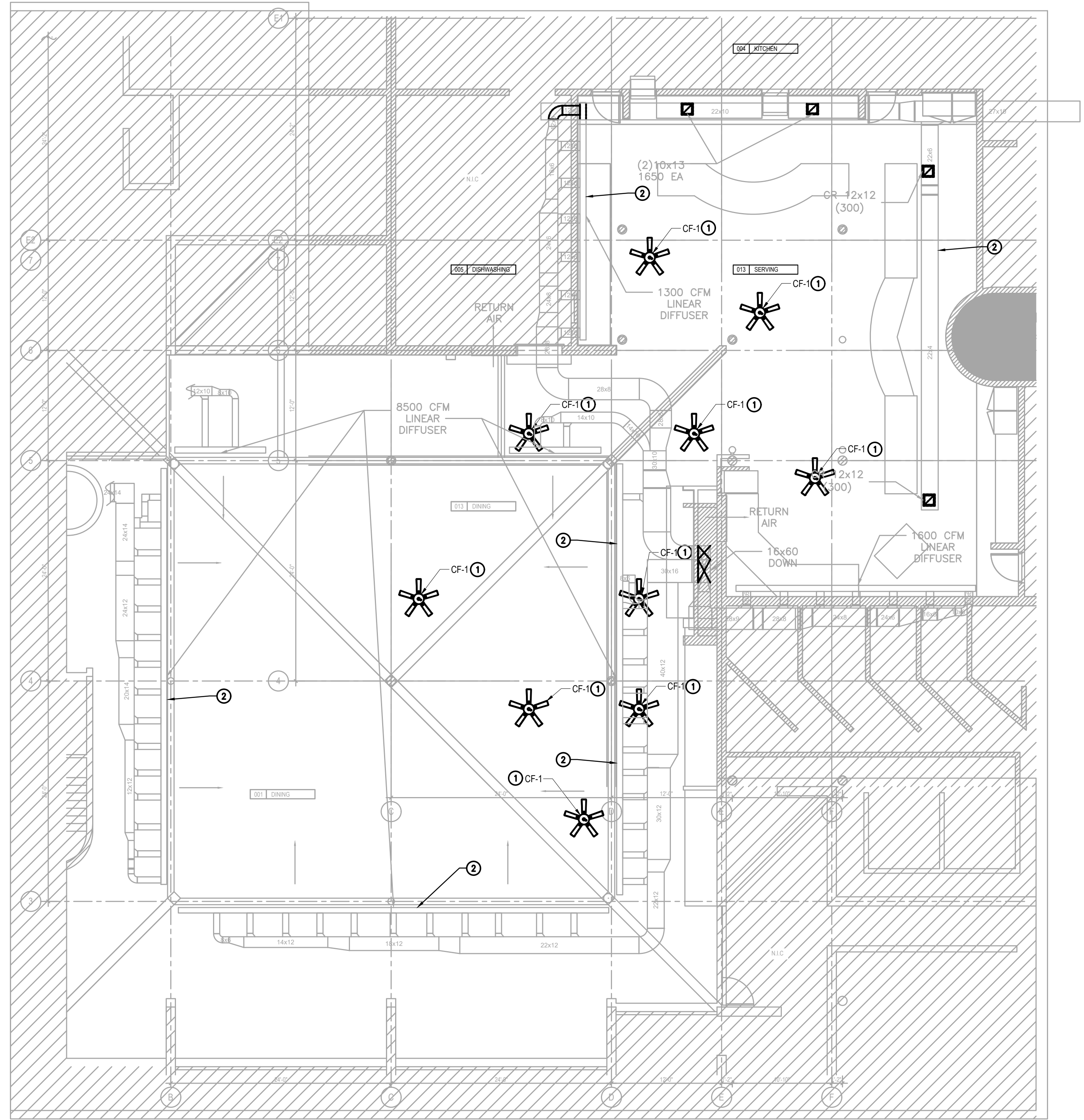


ISSUE:
ISSUED FOR BID

SCALE: AS NOTED | PROJECT NO: 2403 | DATE: 03.25.2024

DRAWING TITLE:
MECHANICAL - NEW WORK PART PLAN

DRAWING NUMBER: **4 OF 4** | DRAWING: **M-101.00**



1 MECHANICAL - NEW WORK PART PLAN
1/8" = 1'-0"

NEW WORK NOTES

1. PROVIDE COMPLETE AND PROPERLY FUNCTIONING HVAC SYSTEM FOR THIS PROJECT. VISIT THE PROJECT SITE, EXAMINE THESE PLANS AND ALL EXISTING DRAWINGS RELATING TO THE AREA OF WORK AND REPORT ANY DISCREPANCIES OR OMISSIONS IN THIS PLAN SET TO THE ENGINEER FOR A RESOLUTION AND CLARIFICATION PRIOR TO SUBMISSION FOR BIDS.
2. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, ETC.
3. REFER TO ELECTRICAL DRAWINGS FOR POWER AND LIGHT FAN CONNECTIONS.
4. PERSONS PERFORMING THE WORK OF THIS SECTION SHALL BE CERTIFIED BY NEBB, AABC OR TABB AND SHALL HAVE EXPERIENCE ON AT LEAST 2 PROJECTS INVOLVING SAME COMPLEXITIES TO THOSE REQUIRED UNDER THIS CONTRACT. THE TESTING, ADJUSTING AND BALANCING FIRM SHALL HAVE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NY (ON STAFF OR A SUB-CONSULTANT OF THE TESTING, ADJUSTING AND BALANCING FIRM) WHO SHALL SIGN AND SEAL ALL THE REPORTS.
5. SUBMIT COPIES OF THE MARKED-UP CONTRACT DRAWINGS AND CERTIFICATE OF CONFORMANCE CERTIFICATION THAT ASSURES THAT THE BALANCING SPECIALIST HAS PERFORMED THEIR CONTRACTED SERVICES IN ACCORDANCE WITH THE APPLICABLE FIRMS' (NEBB, AABC OR TABB) STANDARDS AND PROCEDURES. COPIES OF CONTRACT DRAWINGS SHALL BE MARKED UP AND INDICATE OUTLET/INLET DIFFUSER, REGISTER AND GRILLE IDENTIFICATION.
6. SUBMIT CERTIFIED REPORTS/FORMS SIGNED BY THE REGISTERED PROFESSIONAL ENGINEER REFERRED TO IN PARAGRAPH ABOVE. SUBMIT FINAL TESTING AND BALANCING RESULTS ON REPORT/FORMS (NEBB, AABC OR TABB STANDARDS AND PROCEDURES). THE CERTIFYING FIRMS' INSTRUMENT CALIBRATION REPORT SHALL BE INCLUDED IN THE SUBMISSION OF THE COMPLETED FINAL BALANCING FORMS. LACK OF SUBMISSION OF THE CERTIFYING FIRMS' INSTRUMENT CALIBRATION REPORT SHALL BE CAUSE FOR REJECTION. THE REPORTS SHALL BE CERTIFIED PROOF THAT THE SYSTEMS HAVE BEEN TESTED, ADJUSTED AND BALANCED; ARE AN ACCURATE REPRESENTATION OF HOW THE SYSTEMS HAVE BEEN INSTALLED AND ARE OPERATING; AND ARE AN ACCURATE RECORD OF ALL FINAL QUANTITIES MEASURED TO ESTABLISH NORMAL OPERATING VALUES OF THE SYSTEMS. EACH FINAL SYSTEM REPORT FORM SHALL BEAR THE SIGNATURE OF THE PERSON PERFORMING THE WORK AND THE SIGNATURE OF THE REGISTERED PROFESSIONAL ENGINEER REFERRED TO IN PARAGRAPH ABOVE. INCLUDE IN FINAL REPORTS UNCORRECTED INSTALLATION DEFICIENCIES NOTED DURING THE PROCESS OF ADJUSTING AND BALANCING AND APPLICABLE EXPLANATORY COMMENTS.

KEY NOTES

1. PROVIDE CEILING FAN TYPE AS PER EQUIPMENT SCHEDULE ON DEG M-002. REFER TO ELECTRICAL DRAWINGS FOR POWER AND LIGHT CONNECTIONS.
2. RE-BALANCE EXISTING DIFFUSERS TO ACHIEVE SA FLOW SHOWN ON PLAN WITHIN +/- 10%. PRE-CONSTRUCTION AIR BALANCING REPORT SHALL BE PROVIDED PREVIOUSLY TO ANY MODIFICATION TO THE EXISTING DUCTWORK SYSTEM.