

MECHANICAL SYMBOL LEGEND				MECHANICAL ABBREVIATIONS				MECHANICAL GENERAL NOTES						
<p>SYMBOL</p> <p>DESCRIPTION</p> <ul style="list-style-type: none"> -CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO) -ROUND DIFFUSER -CEILING RETURN -CEILING EXHAUST -CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO) -SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL) -RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL) -REVISION REFERENCE -DETAIL REFERENCE: TOP-DETAIL, BOTTOM-DRAWING SHOWN ON -THERMOSTAT/TEMPERATURE SENSOR -HUMIDISTAT/HUMIDITY SENSOR -DUCT SMOKE DETECTOR -CONNECT TO EXISTING -DEMOLISH TO POINT INDICATED -MOTORIZED CONTROL DAMPER -TEMPERATURE SENSOR -DIGITAL ROOM PRESSURE MONITOR -ANALOG ROOM PRESSURE MONITOR -BACKDRAFT DAMPER -NEUTRAL RELATIVE PRESSURE -POSITIVE RELATIVE PRESSURE -NEGATIVE RELATIVE PRESSURE -SHEET NOTE CALLOUT -SHEET NOTE CALLOUT -SHEET NOTE CALLOUT -CEILING MOUNTED ACCESS DOOR -SQUARE THROAT ELBOW WITH TURNING VANES -RADIUS ELBOW -RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF -EXHAUST DUCT UP THROUGH SLAB W/ FAN ON ROOF ABOVE -EXHAUST FAN ON ROOF W/ DUCT DOWN THROUGH ROOF 	<p>SYMBOL</p> <p>DESCRIPTION</p> <ul style="list-style-type: none"> -FIRE DAMPER (WITH ACCESS PANEL) -FIRE & SMOKE DAMPER (WITH ACCESS PANEL) -SMOKE DAMPER (WITH ACCESS PANEL) -SOUND ATTENUATOR -MOTOR OPERATED CONTROL DAMPER (MOD) -AIR FLOW MEASURING STATION -MANUAL BALANCING DAMPER -DOOR GRILLE -UNDERCUT DOOR -ACCESS DOORS, VERTICAL OR HORIZONTAL -STAINLESS STEEL DUCTWORK -FLEXIBLE CONNECTION -FLAT OVAL DUCT -NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN -EXISTING DUCTWORK TO REMAIN -EXISTING DUCTWORK TO BE REMOVED -DUCT ELBOW, POSITIVE PRESSURE (SUPPLY), FIRST DIMENSION INDICATES SIDE TO WHICH ARROW IS POINTING -DUCT ELBOW, EXHAUST -DUCT ELBOW, NEGATIVE PRESSURE, RETURN -DUCT ELBOW UP THROUGH ROOF OR SLAB ABOVE -RECTANGULAR DUCT SECTION UP, POSITIVE PRESSURE, SUPPLY OR OUTSIDE AIR -RECTANGULAR DUCT SECTION UP, NEGATIVE PRESSURE, RETURN -RECTANGULAR DUCT SECTION UP, EXHAUST -ROUND DUCT SECTION UP -FLAT OVAL DUCT SECTION UP 	<p>SYMBOL</p> <p>DESCRIPTION</p> <ul style="list-style-type: none"> -TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT -TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT -TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED -TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED, WITH ELECTRIC HEAT -ELECTRIC DUCT HEATER (W/ PANEL CLEARANCE) -HYDRONIC REHEAT COIL -INLINE CENTRIFUGAL FAN -PACKAGED TERMINAL AIR CONDITIONER (PTAC) -CHANGE OF ELEVATION -FLEXIBLE DUCT -TRANSITION, CONCENTRIC -TRANSITION, ECCENTRIC -TRANSITION, SQUARE TO ROUND -SQUARE THROAT TEE WITH DAMPERS -RADIUS TEE WITH DAMPERS -RECTANGLE-TO-ROUND TAKE-OFF WITH DAMPER -STANDARD BRANCH TAKE-OFF WITH DAMPER -SPIN-IN TAKE-OFF WITH DAMPER 	<p>SYMBOL</p> <p>DESCRIPTION</p> <ul style="list-style-type: none"> AFD -ADJUSTABLE FREQUENCY DRIVE AFF -ABOVE FINISHED FLOOR AFR -ABOVE FINISHED ROOF AHU -AIR HANDLING UNIT AP -ACCESS PANEL BOP -BOTTOM OF PIPE BHP -BRAKE HORSEPOWER CL -CENTER LINE CFM -CFM (CUBIC FEET PER MINUTE) CD -CEILING DIFFUSER CT -COOLING TOWER CV -CONSTANT AIR VOLUME ΔP -CHANGE IN PRESSURE ΔT -CHANGE IN TEMPERATURE CFM -CUBIC FEET PER MINUTE CU -CONDENSING UNIT DDC -DIRECT DIGITAL CONTROLS DN -DOWN EA -EXHAUST AIR EAT -ENTERING AIR TEMPERATURE ESP -EXTERNAL STATIC PRESSURE EWI -ENTERING WATER TEMPERATURE FCU -FAN COIL UNIT FD -FIRE DAMPER FF -FINAL FILTERS FLA -FULL LOAD AMPS FFM -FEET PER MINUTE GPM -GALLONS PER MINUTE ISO -ISOLATION EXHAUST KW -KILOWATT LAT -LEAVING AIR TEMPERATURE LWT -LEAVING WATER TEMPERATURE LD -LINEAR DIFFUSER MBH -THOUSAND BTUs PER HOUR MCA -MINIMUM CIRCUIT AMPS MCCP -MAXIMUM OVER CURRENT PROTECTION MOD -MOTOR OPERATED CONTROL DAMPER (MOD) NAM -NEGATIVE AIR MACHINE NC -NORMALLY CLOSED NO -NORMALLY OPEN NTS -NOT TO SCALE OA -OUTSIDE AIR OL -OUTSIDE AIR LOUVER PRV -PRESSURE REDUCING VALVE PS -PRESSURE REDUCING STATION PSI -POUNDS PER SQUARE INCH PSIG -PSI GAUGE PTAC -PACKAGED TERMINAL AIR CONDITIONER PVC -POLYVINYL CHLORIDE PIPE RA -RETURN AIR RHC -REHEAT COIL RHP -ROOFTOP HEAT PUMP RPM -REVOLUTIONS PER MINUTE RSL -REFRIGERANT SUCTION & LIQUID LINES RTU -ROOFTOP AIR HANDLING UNIT SA -SUPPLY AIR SP -STATIC PRESSURE TSP -TOTAL STATIC PRESSURE UNO -UNLESS NOTED OTHERWISE VPH -VOLTS/PHASE VAV -VARIABLE AIR VOLUME VFD -VARIABLE FREQUENCY DRIVE 	<ol style="list-style-type: none"> CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FIT/FURNISHED. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD. SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC. OF DUCTWORK. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS. ALL EQUIPMENT, DUCTWORK, ETC. SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED. ACCESS PANELS IN DUCTWORK AND CEILING SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE. ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER. MAINTAIN CLEARANCE OF A MINIMUM OF 4" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE AND/OR SMOKE RATED WALLS, TO ALLOW FOR INSPECTIONS OF RATED WALLS. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS, AND A MINIMUM OF 1' ABOVE ROOF SURFACES/GRADE. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK. WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26. TEST AND BALANCE SHALL BE PERFORMED AT EACH PHASE OF CONSTRUCTION, ON ALL SPACES AND SYSTEMS ASSOCIATED WITH THE PHASE. PROVIDE REPORT TO ENGINEER FOR REVIEW. SUBMITTALS: ELECTRONIC SUBMITTALS SHALL BE IN SEARCHABLE FORMAT. DO NOT SUBMIT SCANNED DOCUMENTS. MECHANICAL SYSTEMS COMMISSIONING WILL BE PERFORMED IN ACCORDANCE WITH CURRENT GEORGIA BUILDING CODE SECTION C408. A COMMISSIONING PLAN WILL BE DEVELOPED IN ACCORDANCE WITH IECC 408.2.1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. 										
MECHANICAL PIPING SYMBOL LEGEND				APPLICABLE CODES				MECHANICAL SHEET INDEX						
<p>SYMBOL</p> <p>DESCRIPTION</p> <ul style="list-style-type: none"> -CONDENSER WATER SUPPLY -CONDENSER WATER RETURN -CHILLED WATER SUPPLY -CHILLED WATER RETURN -CONDENSATE -CONDENSATE RETURN -PUMPED CONDENSATE -HEATING HOT WATER RETURN -HEATING HOT WATER SUPPLY -HIGH PRESSURE STEAM SUPPLY -MEDIUM PRESSURE STEAM SUPPLY -LOW PRESSURE STEAM SUPPLY -HIGH PRESSURE STEAM RETURN -MEDIUM PRESSURE STEAM RETURN -LOW PRESSURE STEAM RETURN -REFRIGERANT LIQUID -REFRIGERANT SUCTION -TEE, OUTLET DOWN -TEE, OUTLET UP -45° PIPE RISE (R) / DROP (D) -PIPE ANCHORS -CONCENTRIC REDUCER -ECCENTRIC REDUCER 	<p>SYMBOL</p> <p>DESCRIPTION</p> <ul style="list-style-type: none"> -FLOW DIRECTION -ISOLATION VALVE -BALL VALVE -CALIBRATING BALANCING VALVE -BUTTERFLY VALVE -GAS COCK -UNION -STRAINER -CONTROL VALVE -SOLENOID VALVE -PSI REG. -CHECK VALVE -FLOW SWITCH -SLOPE DIRECTION (DOWN) -FLEX CONNECTION -O.S.&Y. GATE VALVE -STEAM TRAP -THREE-WAY CONTROL VALVE -THERMOMETER 	<p>SYMBOL</p> <p>DESCRIPTION</p> <ul style="list-style-type: none"> -P-TRAP -TWO-WAY CHECK VALVE -MANUAL VENT -PRESSURE GAUGE -RELIEF VALVE -FLOW METER -WATER METER -INLINE PUMP -VALVE ON RISER -CAP -CONNECTION, BOTTOM -CONNECTION, TOP -COUPLING -ELBOW, 90° -ELBOW, 45° -ELBOW, TURNED DOWN -ELBOW, TURNED UP 	<p>A. STATE, COUNTY, AND CITY HEALTH AND BUILDING CODES</p> <p>B. NFPA 518, 2018 EDITION</p> <p>C. NFPA 72, 2017 EDITION</p> <p>D. NFPA 70, 2019 EDITION</p> <p>E. NFPA 99A, 2018 EDITION</p> <p>F. NFPA 99B, 2018 EDITION</p> <p>G. NFPA 96, STANDARD FOR HEALTHCARE FACILITIES, 2018 EDITION</p> <p>H. NFPA 101, LIFE SAFETY CODE, 2018 EDITION, GEORGIA AMENDMENTS (2020-2024)</p> <p>I. IBC 2018 EDITION, WITH GEORGIA AMENDMENTS (2020-2024)</p> <p>J. IBC 2018 EDITION, WITH GEORGIA AMENDMENTS (2020-2024)</p> <p>K. IPC 2018 EDITION, WITH GEORGIA AMENDMENTS (2020-2024)</p> <p>L. IEC 2015 EDITION, WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020-2024)</p> <p>M. IFI 2018 EDITION, WITH GEORGIA AMENDMENTS (2020-2024)</p> <p>N. OTHER NFPA CODES AS REFERENCED BY STANDARD CODES</p> <p>O. ANSI A117.1-1992 ACCESSIBLE AND USABLE BUILDING AND FACILITIES.</p> <p>P. THE AMERICANS WITH DISABILITIES ACT (ADA), ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES - 1991</p> <p>Q. 2018 FGI GUIDELINES</p>	<p>MECHANICAL EQUIPMENT TAGS</p> <p>MECHANICAL SHEET INDEX</p> <table border="1"> <thead> <tr> <th>SHEET</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>M1.01</td> <td>MECHANICAL SYMBOLS, LEGEND, NOTES AND INDEX</td> </tr> <tr> <td>M1.02</td> <td>MECHANICAL SCHEDULES</td> </tr> <tr> <td>M1.01</td> <td>SECOND FLOOR DEMOLITION MECHANICAL DEMOLITION PLAN</td> </tr> <tr> <td>M2.01</td> <td>SECOND FLOOR CONSTRUCTION MECHANICAL PLAN</td> </tr> </tbody> </table>	SHEET	DESCRIPTION	M1.01	MECHANICAL SYMBOLS, LEGEND, NOTES AND INDEX	M1.02	MECHANICAL SCHEDULES	M1.01	SECOND FLOOR DEMOLITION MECHANICAL DEMOLITION PLAN	M2.01	SECOND FLOOR CONSTRUCTION MECHANICAL PLAN
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NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT				<p>APPLICABLE CODES</p> <p>MECHANICAL EQUIPMENT TAGS</p> <p>MECHANICAL SHEET INDEX</p>				<p>GRADY HEALTH 80 JESSE HILL JR DRIVE</p> <p>CAFETERIA RENOVATION</p> <p>PROGRESS BID SET</p> <p>11/26/2024 24.0128</p> <p>MECHANICAL SYMBOLS, LEGEND, NOTES AND INDEX</p> <p>M0.01</p>						

SEALS

GRADY HEALTH
80 JESSE HILL JR DRIVE

CAFETERIA RENOVATION

PROGRESS BID SET

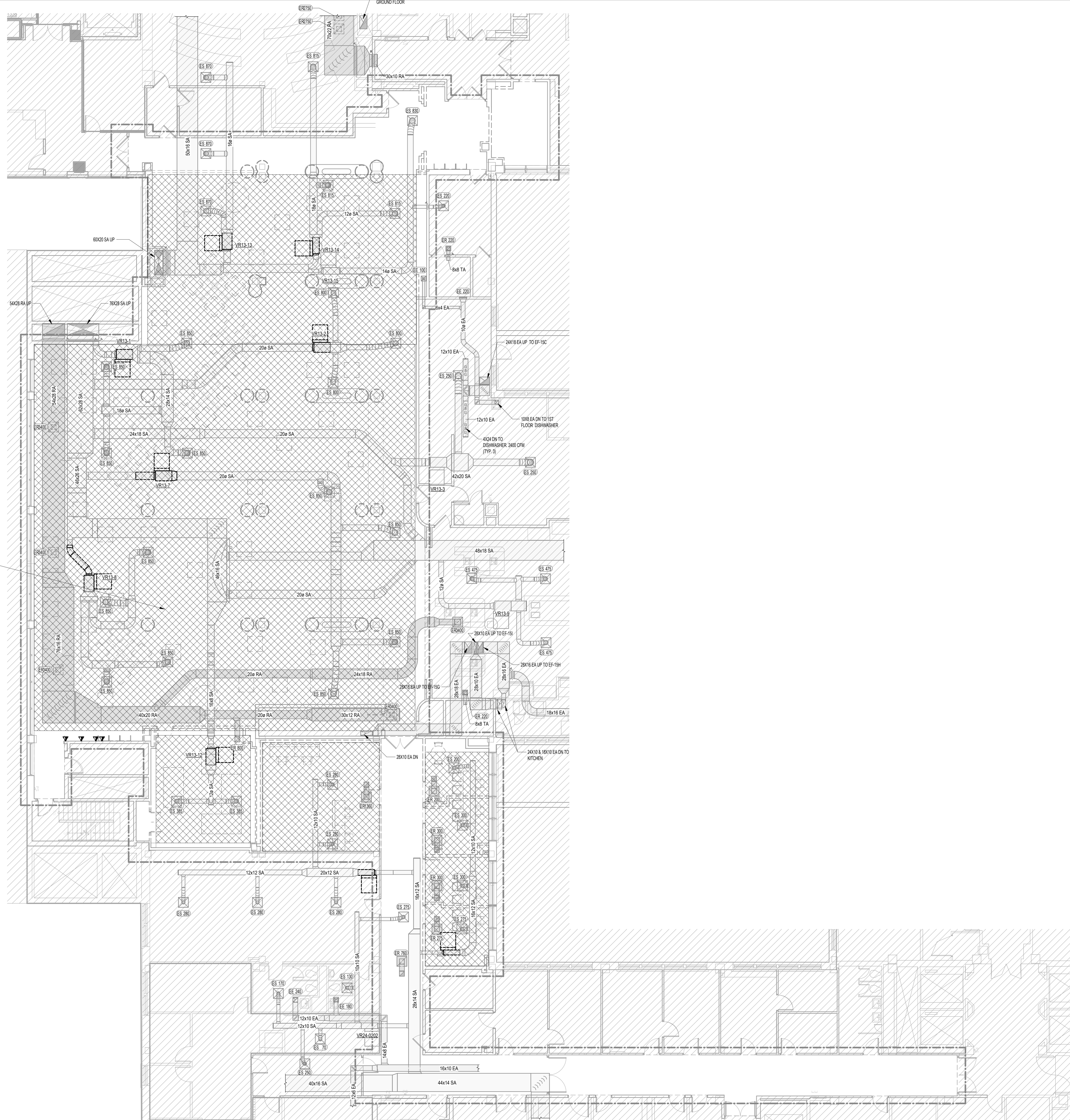
11/26/2024 **24.0128**

MECHANICAL SCHEDULES

M0.02

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DEMOLISH VAVS, CONTROLS, FLEX DUCT, AND GRD IN HATCHED AREAS

1 SECOND FLOOR DEMOLITION MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

GRADY HEALTH
80 JESSE HILL JR DRIVE

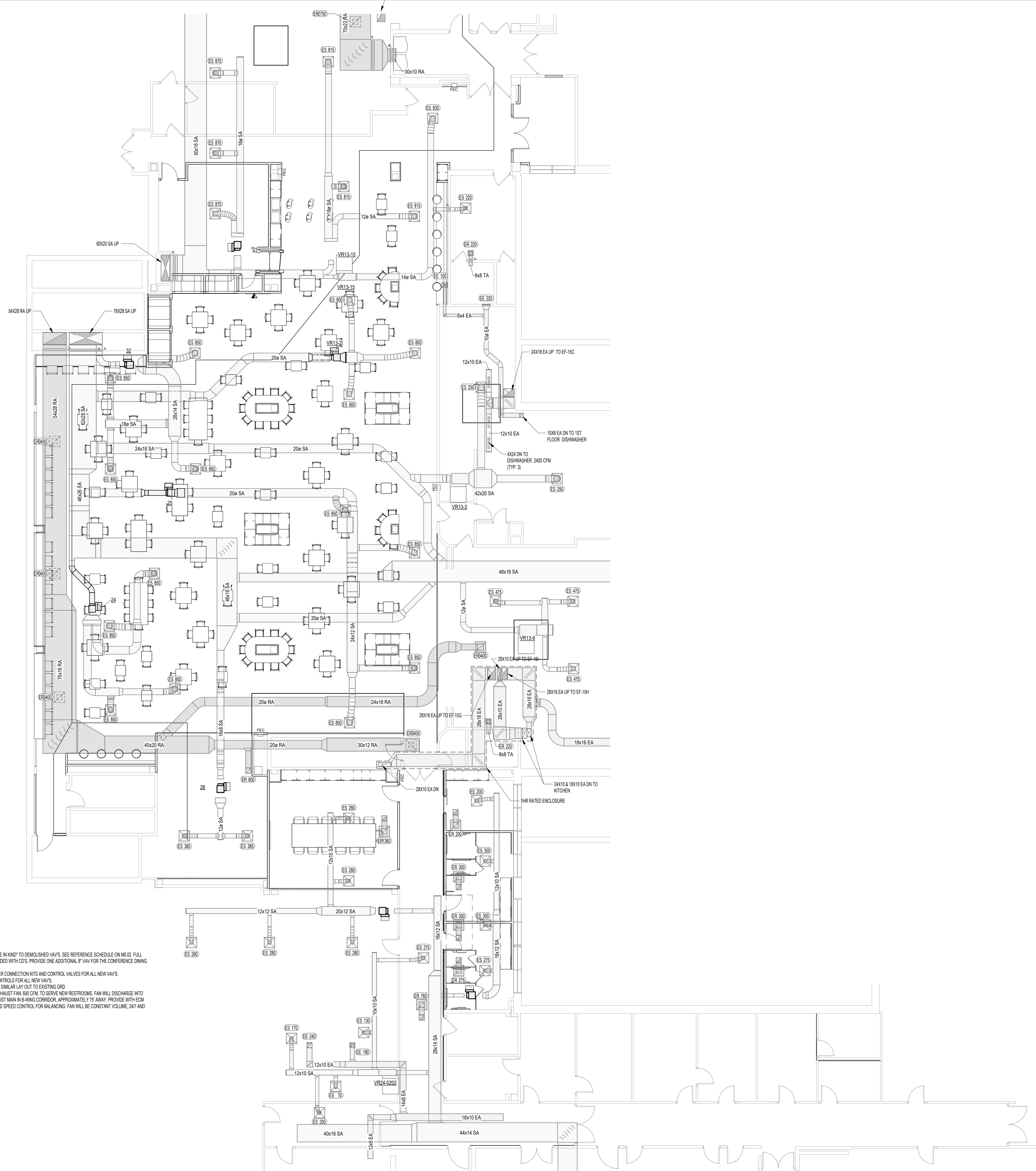
CAFETERIA RENOVATION

PROGRESS BID SET

11/26/2024 24.0128

SECOND FLOOR
DEMOLITION MECHANICAL
DEMOLITION PLAN

M1.01



PRICING NOTES:
- PROVIDE NEW VAV'S LIKE IN KIND TO DEMOLISHED VAV'S. SEE REFERENCE SCHEDULE ON M0.02. FULL SCHEDULE WILL BE PROVIDED WITH CDS. PROVIDE ONE ADDITIONAL P VAV FOR THE CONFERENCE DINING ROOM.
- PROVIDE NEW HWT WATER CONNECTION KITS AND CONTROL VALVES FOR ALL NEW VAV'S.
- PROVIDE NEW DELTA CONTROLS FOR ALL NEW VAV'S.
- PROVIDE NEW GRD WITH SIMILAR LAY OUT TO EXISTING GRD.
- PROVIDE NEW IN-LINE EXHAUST FAN, 800 CFM, TO SERVE NEW RESTROOMS. FAN WILL DISCHARGE INTO EXISTING GENERAL EXHAUST MAIN IN SWING CORRIDOR, APPROXIMATELY 75' AWAY. PROVIDE WITH ECM MOTOR AND FAN MOUNTED SPEED CONTROL FOR BALANCING. FAN WILL BE CONSTANT VOLUME, 247 AND ALARM TO BMS.

GRADY HEALTH
80 JESSE HILL JR DRIVE

CAFETERIA RENOVATION

PROGRESS BID SET

11/26/2024 24.0128

SECOND FLOOR
CONSTRUCTION
MECHANICAL PLAN

M2.01

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