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A NEW HVAC SYSTEM FOR:  
**MYRTLE BEACH LAW ENFORCEMENT CENTER  
 SPECIAL OPERATION BUILDING**

MYRTLE BEACH, SOUTH CAROLINA

CODE ANALYSIS – INDEX OF DRAWINGS:

**BUILDING CODE ANALYSIS**

INTERNATIONAL BUILDING CODE, 2015 EDITION

CODE ITEM	DESIGNATED AREAS OF BUILDING
OCCUPANCY CLASSIFICATION:	STORAGE BAYS/OFFICES
CONSTRUCTION CLASSIFICATION:	STORAGE 'S-2' - NON-SEPARATED TYPE V, B (TABLE 601)
AREA: ALLOWED:	9,000 S.F. (TABLE 506.2)
ACTUAL:	4,872 S.F.
HEIGHT: ALLOWED:	40' (TABLE 504.3)
ACTUAL:	19'-0"
STORIES ALLOWED:	1 (TABLE 504.4)
ACTUAL:	1
STRUCTURAL MEMBERS: (TABLE 601 - HRS)	
EXTERIOR BEARING WALLS:	0
EXTERIOR NONBEARING WALLS:	0
INTERIOR BEARING WALLS:	0
COLUMNS:	0
BEAMS GIRDERS:	0
FLOOR CONSTRUCTION:	0
ROOF CONSTRUCTION:	0
SEPARATION WALLS: (IN HOURS)	
FIRE WALLS:	NA
FIRE BARRIER:	NA
EXIT STAIR:	NA
HORIZONTAL EXIT:	NA
EXIT OUTLET:	NA
EXIT ACCESS:	NA
ELEVATOR AND SHAFT:	NA
INTERIOR PARTITIONS:	0

ABBREVIATIONS:  
 NA=NOT APPLICABLE, S.F.=SQUARE FEET, HR=HOUR,  
 MIN=MINUTES

- ALL WORK, MATERIALS, ETC. SHALL BE IN COMPLIANCE WITH ALL CURRENT CODES AND REGULATIONS TAKEN PRECEDENCE OVER PROJECT LOCATION.
- ANTICIPATE 5/8" SAG RESISTANT GYPSUM BOARD IN CEILINGS OF OFFICE/WORK AREA WHEN PATCHING AND PAINTING AROUND NEW HVAC GRILLES.
- WHEN PAINTING PATCH AREAS, IT IS THE CONTRACTOR'S OPTION TO TOUCH-UP PAINT OR PAINT WALL TO WALL. FINISHED PAINT SHALL BE EVENLY SPREAD AND WELL BRUSHED. THE FINISH COATS SHALL BE FREE FROM NOTICEABLE LAPS, BRUSH MARKS, AND STREAKS. (SPRAY OR ROLLER APPLICATION MAY BE APPROVED FOR GYPSUM BOARD AFTER ASSURANCE OF EQUAL OR BETTER COVERAGE CAN BE ATTAINED).

**DRAWING INDEX**

COVER COVER SHEET

**ARCHITECTURAL**

PIKE-MCFARLAND-HALL

A1.0 ARCHITECTURAL FLOOR PLAN - EXISTING

A1.1 ARCHITECTURAL FLOOR PLAN - NEW

A2.0 DETAILS

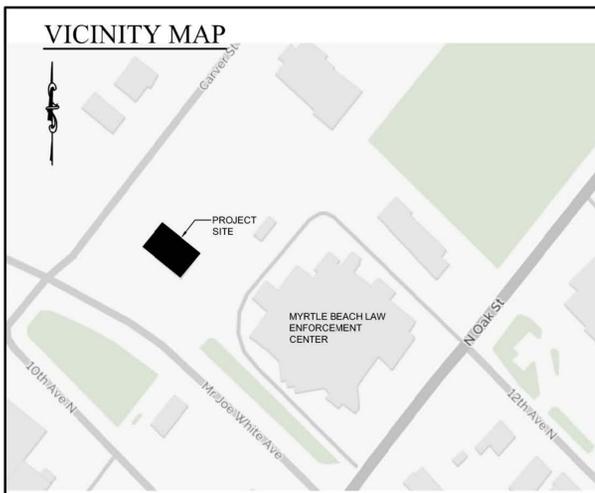
**MECHANICAL**

RAST-DALLERY ENGINEERS, PC

ME1.0 MECHANICAL PLAN

ME2.0 GENERAL NOTES & LEGEND

ME2.1 SECTIONS, SCHEDULES, & DETAILS



**PMH**

PIKE-MCFARLAND-HALL ASSOCIATES, INC. ARCHITECTS & PLANNERS



OWNER

CITY OF MYRTLE BEACH  
 937 BROADWAY STREET  
 P.O. BOX 2468  
 MYRTLE BEACH, SC 29578

A NEW HVAC SYSTEM FOR  
 MYRTLE BEACH LAW ENFORCEMENT CENTER  
**SPECIAL OPERATION BUILDING**  
 MYRTLE BEACH, SOUTH CAROLINA

COMM: 17014  
 DWG.: COVER SHEET  
 DRAWN BY: WJ  
 PLOT: 1-1  
 DATE: 05-25-17  
 REV:

SHEET

**COV**

PIKE-MCFARLAND-HALL ASSOCIATES, INC. -- ARCHITECTS & PLANNERS -- 1300 PROFESSIONAL DRIVE, SUITE 201, MYRTLE BEACH, SOUTH CAROLINA 29577 -- PHONE: (843) 497-0272 FAX: (843) 497-0271

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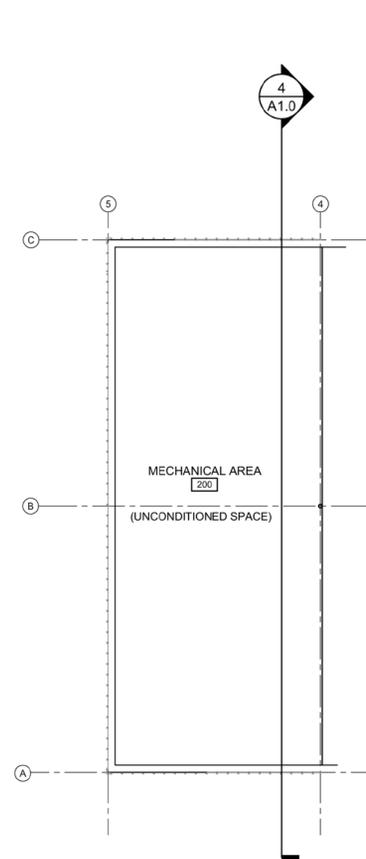


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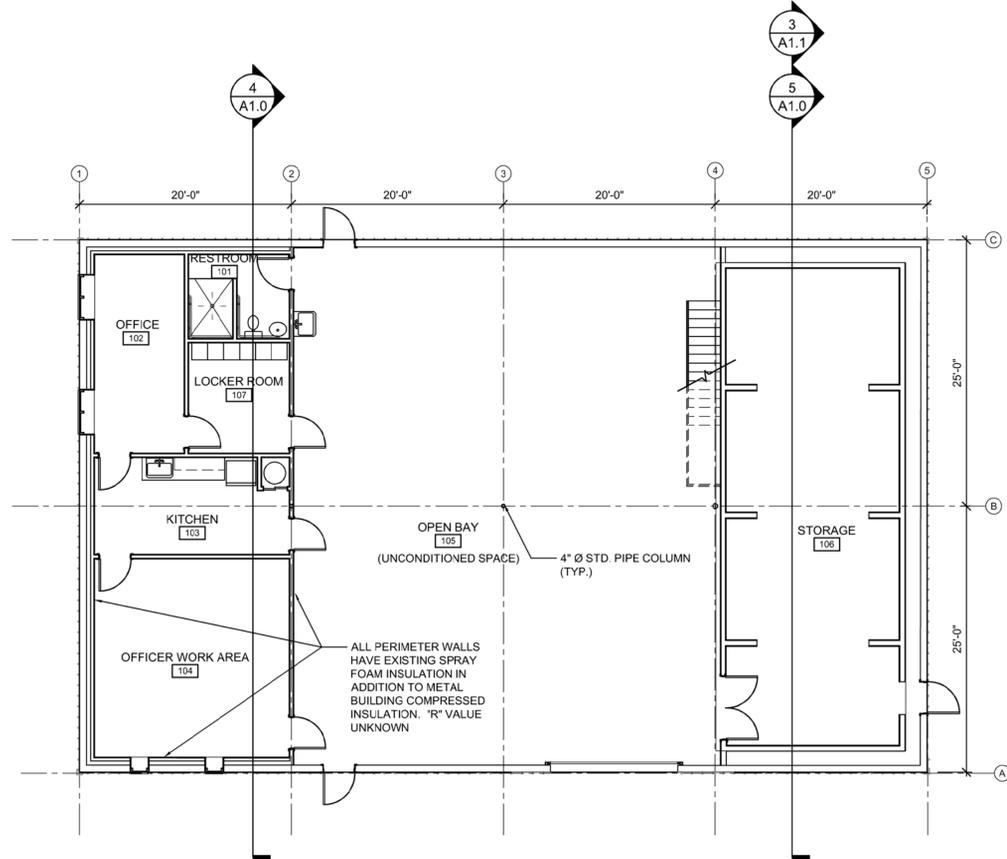
PROJECT  
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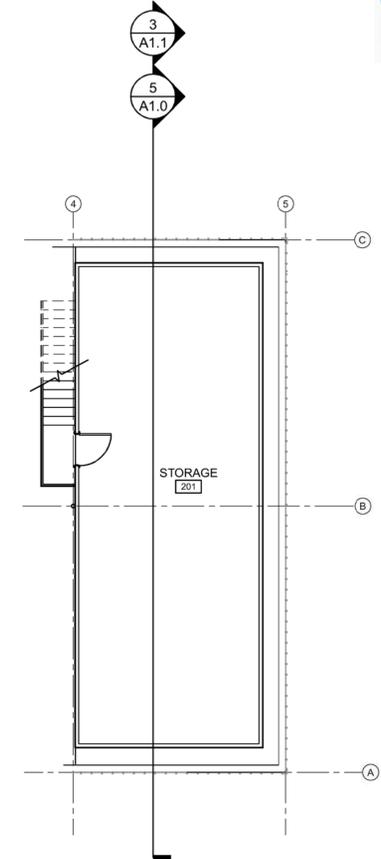
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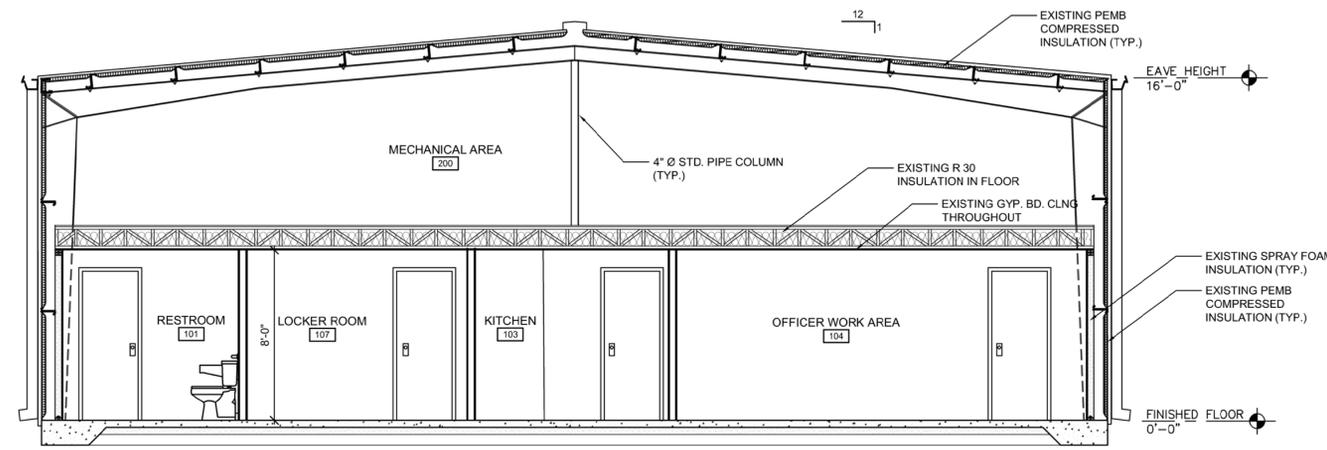
**1 2ND FLOOR MECHANICAL AREA**  
 SCALE: 1/8"=1'-0"



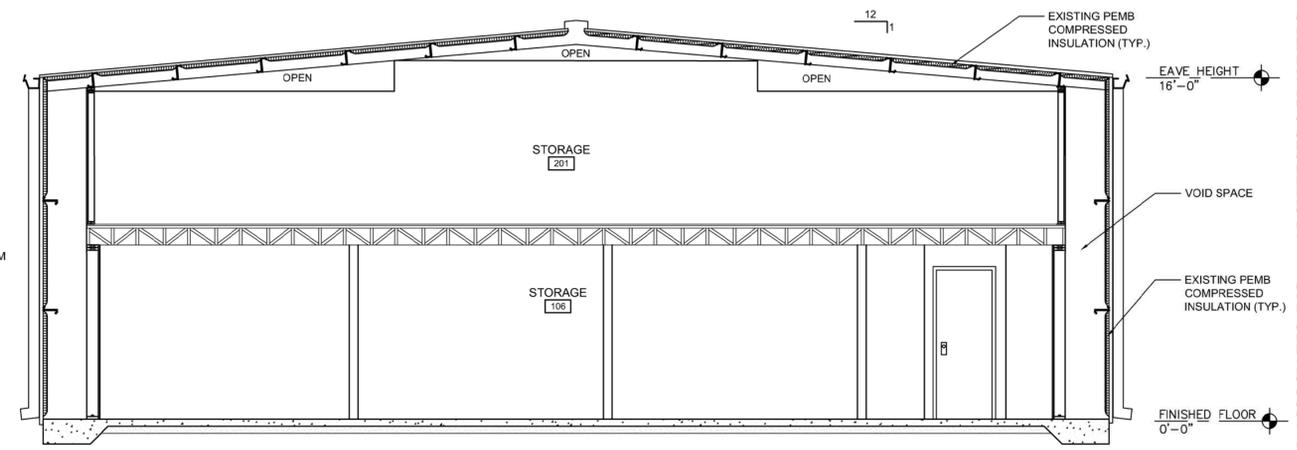
**2 EXISTING FLOOR PLAN**  
 SCALE: 1/8"=1'-0"



**3 2ND FLOOR STORAGE AREA**  
 SCALE: 1/8"=1'-0"



**4 EXISTING SECTION**  
 SCALE: 1/4"=1'-0"



**5 EXISTING SECTION**  
 SCALE: 1/4"=1'-0"

SHEET  
**A1.0**

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MYRTLE BEACH, SC 29578

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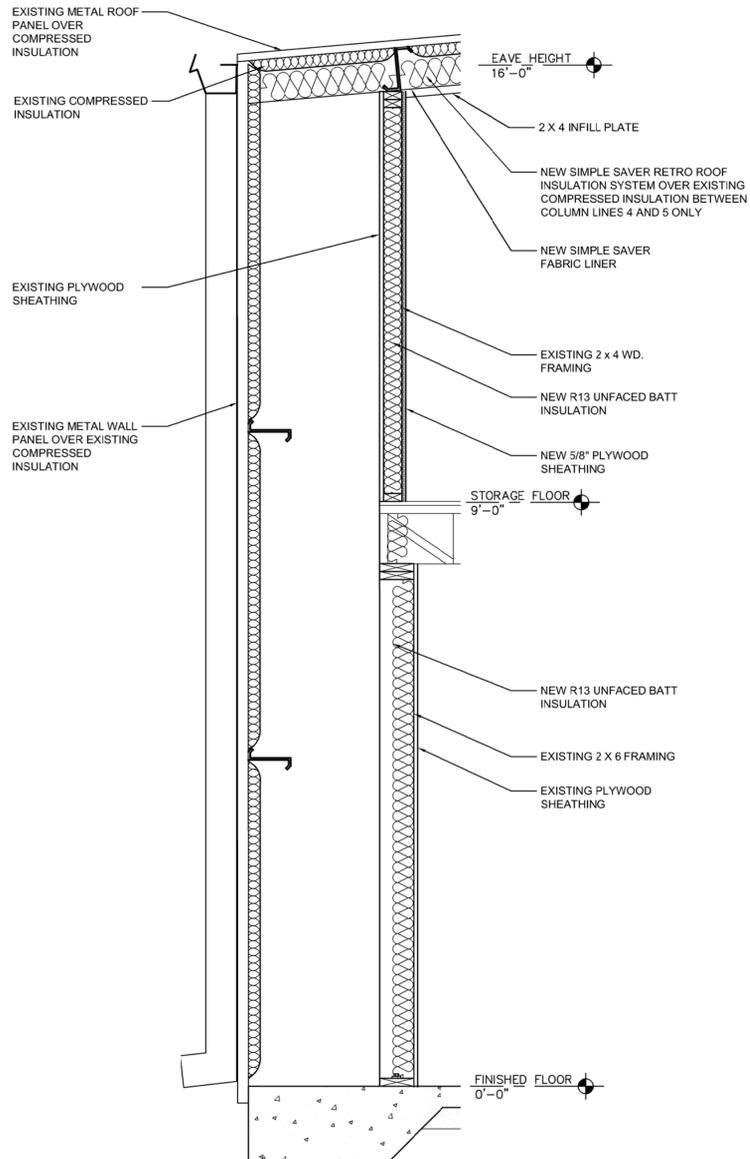
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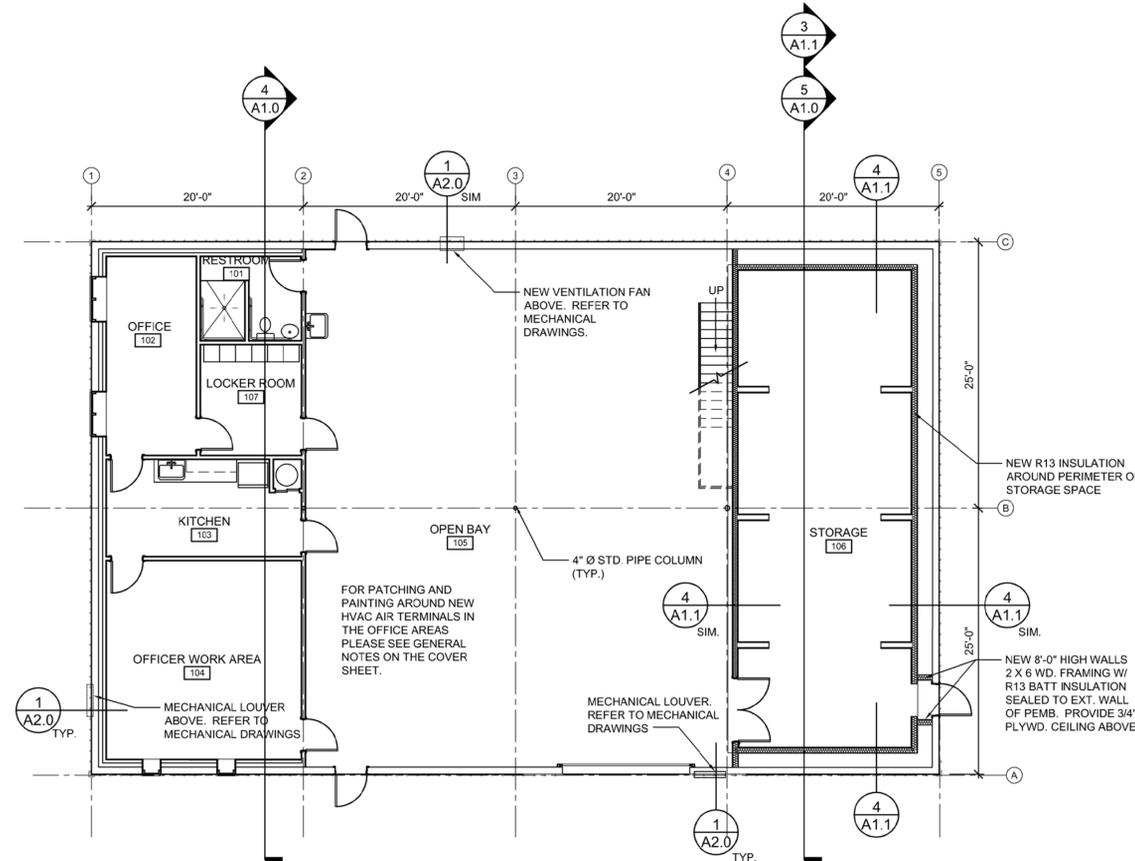
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**A1.1**

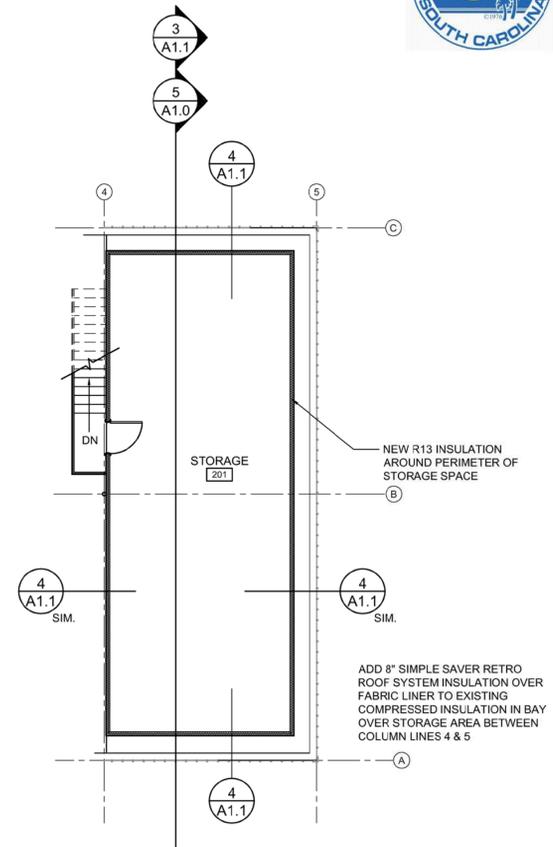
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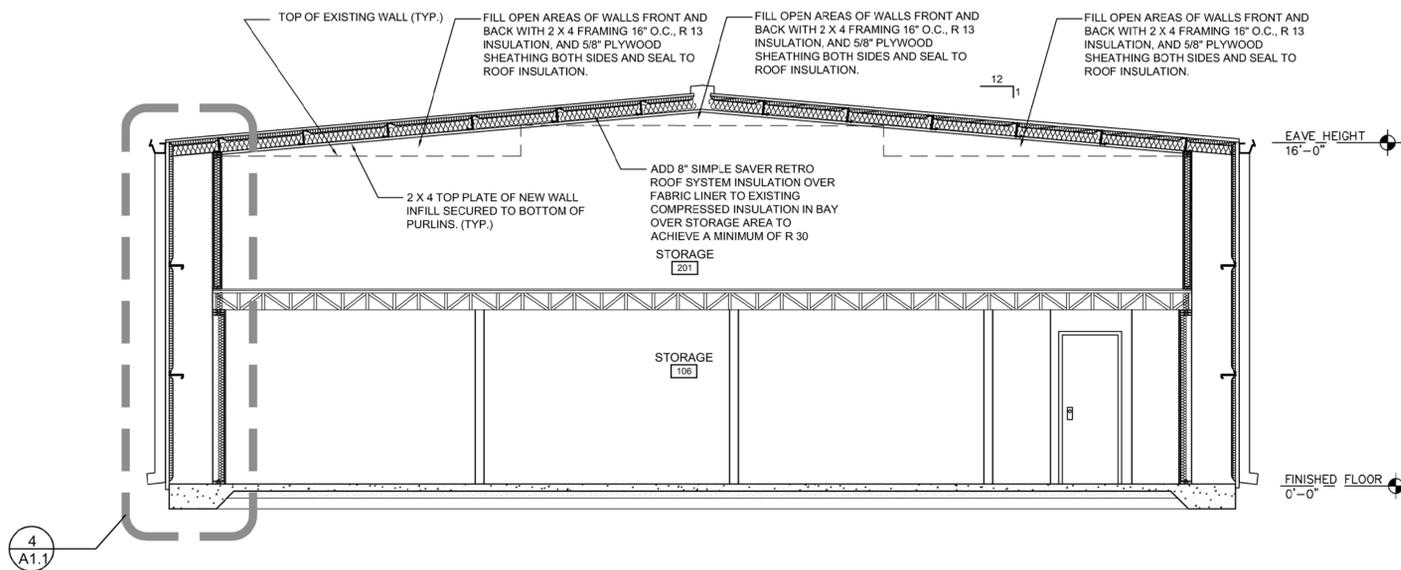
**4 INTERIOR WALL SECTION**  
SCALE: 3/4"=1'-0"



**1 FLOOR PLAN**  
SCALE: 1/8"=1'-0"



**2 2ND FLOOR STORAGE AREA**  
SCALE: 1/8"=1'-0"



**3 NEW SECTION**  
SCALE: 1/4"=1'-0"

PHOTO: (843) 497-0272

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PROJECT

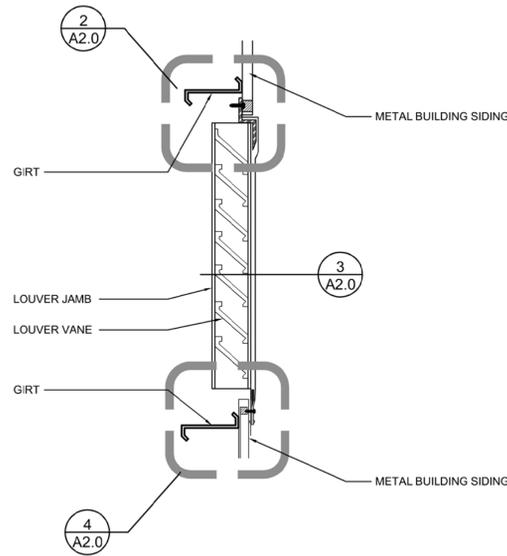
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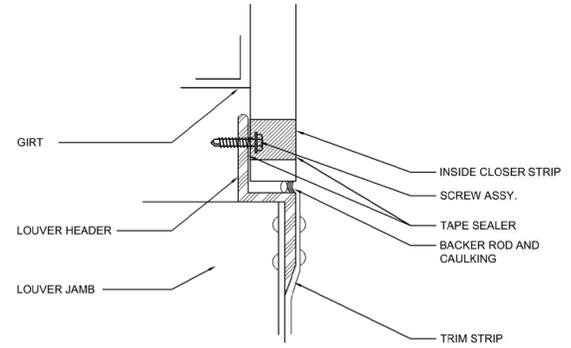
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A2.0

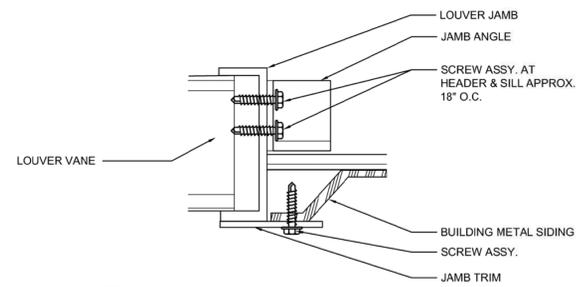
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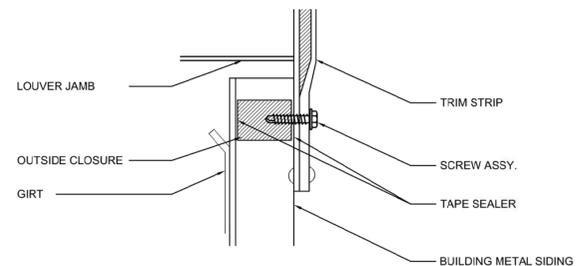
1 LOUVER ASSEMBLY DETAIL SCALE: 1"=1'-0"



2 LOUVER HEAD DETAIL SCALE: 1 1/2"=1'-0"



3 LOUVER JAMB DETAIL SCALE: 1 1/2"=1'-0"



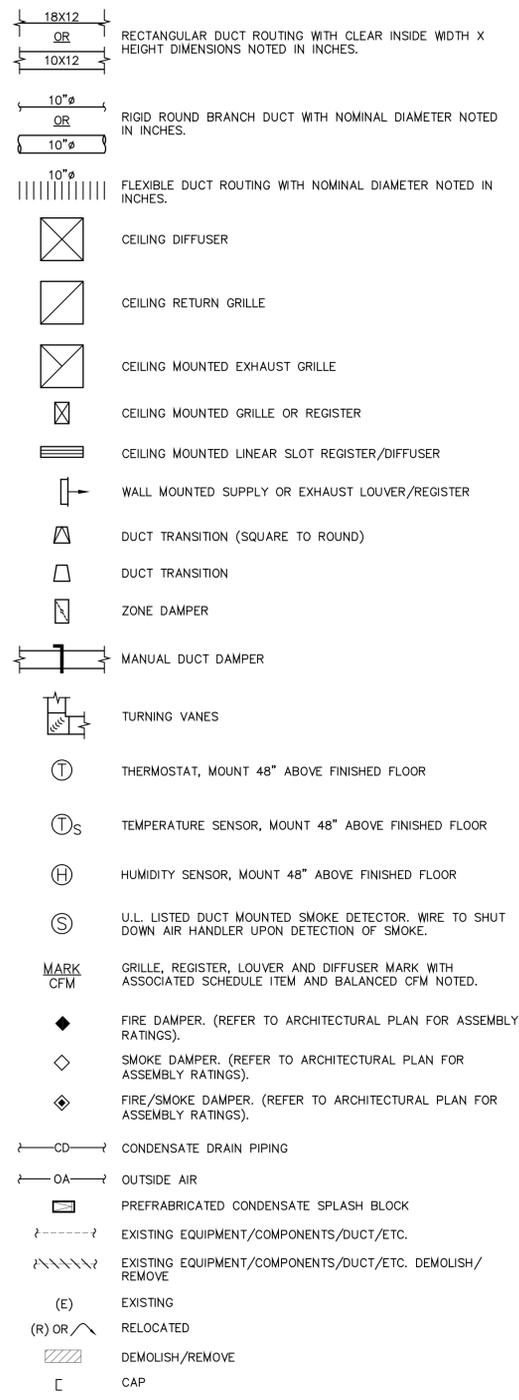
4 LOUVER SILL DETAIL SCALE: 1 1/2"=1'-0"



**GENERAL NOTES/MATERIALS AND INSTALLATION:**

- THE WORK UNDER THIS DIVISION INCLUDES THE INSTALLATION OF COMPLETE MECHANICAL SYSTEMS CONSISTING OF, BUT NOT LIMITED TO HEATING AND AIR CONDITIONING.
- FURNISH AND INSTALL COMPLETE YEAR-ROUND HEATING AND AIR CONDITIONING SYSTEMS AS SHOWN ON THE DRAWINGS, FINISHED IN ALL RESPECTS READY FOR USE.
- DO NOT SCALE PLANS. ROUGH FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
- THE CONTRACTOR/SUBCONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS AFFECTING THIS WORK, PRIOR TO SUBMITTING HIS PROPOSAL/SIGNING A CONTRACT.
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. THE CONTRACTOR SHALL APPLY FOR ALL REQUIRED PERMITS, INSPECTIONS, ETC. ALL WORK SHALL COMPLY WITH THE 2015 INTERNATIONAL MECHANICAL CODE (IMC).
- ALL DUCTWORK LOCATED IN UNCONDITIONED INTERIOR SPACES SHALL BE GALVANIZED STEEL. DUCT SHALL BE FABRICATED, ASSEMBLED AND MOUNTED ACCORDING TO SMACNA GUIDELINES. SUPPLY AND RETURN SHALL BE WRAPPED WITH AN R-6 (INSTALLED) RATED FIBERGLASS BLANKET INSULATION AND FACTORY APPLIED VAPOR BARRIER. DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. SEAL ALL TAPED INSULATION JOINTS WITH MASTIC. FIELD VERIFY ALL CONDITIONS AFFECTING DUCT ROUTING PRIOR TO FABRICATION OF DUCTWORK. PROVIDE FLEXIBLE CONNECTIONS AT ALL RETURN AND SUPPLY DUCT CONNECTIONS TO AIR HANDLERS.
- ALL DUCTWORK LOCATED IN UNCONDITIONED AREAS OUTSIDE THE BUILDING THERMAL ENVELOPE SHALL BE GALVANIZED STEEL. DUCT SHALL BE FABRICATED, ASSEMBLED AND MOUNTED ACCORDING TO SMACNA GUIDELINES. SUPPLY AND RETURN SHALL BE WRAPPED WITH AN R-8 (INSTALLED) RATED FIBERGLASS BLANKET INSULATION AND FACTORY APPLIED VAPOR BARRIER. DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. SEAL ALL TAPED INSULATION JOINTS WITH MASTIC. FIELD VERIFY ALL CONDITIONS AFFECTING DUCT ROUTING PRIOR TO FABRICATION OF DUCTWORK. PROVIDE FLEXIBLE CONNECTIONS AT ALL RETURN AND SUPPLY DUCT CONNECTIONS TO AIR HANDLERS.
- FLEXIBLE ROUND DUCTS SHALL BE FACTORY PRE-INSULATED WITH AN R-8 RATED FIBERGLASS INSULATION BLANKET AND VAPOR BARRIER OF ALUMINUM METALIZED POLYESTER SHEATHING LAMINATED TO A REINFORCING GLASS MESH. ROUND DUCT TAKE-OFFS SHALL BE SPIN-IN TYPE WITH INTEGRAL VOLUME DAMPER. BRANCH DUCTS SHALL BE RIGID METAL TO WITHIN 5 FEET OF REGISTER. FINAL 5 FEET SHALL BE FLEX DUCT.
- ALL DUCTWORK MATERIALS, INCLUDING CEMENTS AND VAPOR BARRIER SHALL CONFORM TO THE REQUIREMENTS OF UL 181 STANDARDS FOR CLASS 1 AIR DUCT MATERIAL, NFPA-90A AND SMACNA FGDCS.
- EXPOSED EXTERIOR DUCTWORK SHALL BE MINIMUM 20 GA. STEEL. THE DUCTWORK SHALL BE WRAPPED WITH 3" OF RIGID INSULATION AND A VAPOR BARRIER. THE INSULATION SHALL BE PROTECTED BY AN 0.016" ALUMINUM JACKET. JACKET SHALL HAVE SMOOTH OR EMBOSSED FINISH. THE DUCTWORK SHALL BE SUPPORTED TO MEET SEISMIC REQUIREMENTS FOR THE AREA.
- PROVIDE TURNING VANES IN ALL RECTANGULAR DUCT ELBOWS.
- PROVIDE VOLUME DAMPERS WHERE INDICATED AND AT ALL BRANCH TAKE-OFFS TO FACILITATE PROPER BALANCE.
- PROVIDE ALL FILTER FRAMES WITH NEW DISPOSABLE FILTERS AT THE COMPLETION OF THE PROJECT.
- PROVIDE WALL SLEEVES OR METAL THIMBLES AT LEAST 3/8" LARGER THAN THE O.D. OF ALL O.D. PIPING PENETRATING CONCRETE OR MASONRY WALLS, CEILINGS, FLOORS. SEAL AROUND PENETRATIONS WITH MATERIALS APPROVED BY THE ARCHITECT. SEAL AROUND SLEEVES IN EXTERIOR CONCRETE OR MASONRY WALLS WITH GROUT.
- ALL ROOF PENETRATIONS SHALL BE FLASHED BY A LICENSED ROOFER AT NO ADDITIONAL EXPENSE TO OWNER.
- PROVIDE WARRANTY ALL NEW EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRST BENEFICIAL USE BY THE OWNER, WHICHEVER COMES FIRST. COMPRESSORS SHALL BE WARRANTED FOR 5 YEARS.
- DUCT ROUTING IS DIAGRAMMATIC IN NATURE AND DOES NOT REPRESENT ALL REQUIRED TURNS AND FITTINGS TO ROUTE DUCT AS SHOWN. FIELD VERIFY ALL CONDITIONS AFFECTING DUCT ROUTING PRIOR TO FABRICATION OF DUCT.
- SIZE REFRIGERANT PIPING PER HEAT PUMP MANUFACTURER'S RECOMMENDATION FOR DISTANCE AND LIFT BETWEEN AIR HANDLER AND HEAT PUMP. INCLUDE ANY EQUIPMENT OR PIPE ACCESSORIES RECOMMENDED BY MANUFACTURER. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCTION LINE ACCUMULATORS, HEAD PRESSURE CONTROLS, TXV'S, ORIFICE CHANGE, CRANKCASE HEATER, PIPE MATERIAL, AND TIME DELAY RELAY.
- SEAL PERIMETER OF EXHAUST AND MAKE-UP AIR VENTS WITH PAINTABLE WEATHERPROOF SEALANT.
- RESTROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTS BY ELECTRICAL CONTRACTOR, UNLESS SPECIFIED OTHERWISE ON THE ELECTRICAL DRAWINGS.
- PIPE PRIMARY CONDENSATE TO LOCATION SHOWN. CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC. PROVIDE P-TRAP WITH CLEAN-OUT AND SLOPE TO DRAIN. INSULATE ENTIRE DRAIN LINE WITH 1/2" ARMAFLEX INSULATION.
- MECHANICAL EQUIPMENT ACCESS, CATWALKS AND GUARD RAILS PROVIDED BY GENERAL CONTRACTOR.
- COORDINATE EXACT LOCATION OF CEILING GRILLES AND DIFFUSERS WITH LIGHTING AND OTHER TRADES. WHERE DIFFUSER OR GRILLE INTERFERES WITH LIGHTING, LOCATE GRILLE OR DIFFUSER IN NEAREST OPEN TILE TO LOCATION SHOWN.
- SMOKE ALARM SHUTDOWN: MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY AND RETURN OF EACH AIR HANDLER EXCEEDING 2000 CFM NOMINAL CAPACITY. CONTRACTOR SHALL WIRE AIR HANDLERS TO SHUT DOWN IN THE EVENT OF SMOKE DETECTION.
- PROVIDE SEISMIC PROTECTION OF DUCT, AIR HANDLERS, AND OUTDOOR EQUIPMENT PER SECTION 301.18 OF THE IMC.
- ALL EXHAUST DUCTS SHALL BE RIGID GALVANIZED STEEL AND INSULATED FOR ENTIRE RUN. INSULATE PER NOTE 6.
- HEAT PUMPS/CONDENSING UNITS SHALL BE MOUNTED ON CONCRETE PADS 4" MINIMUM ABOVE FINISHED GRADE.
- PROVIDE AUXILIARY DRAIN PANS WITH FLOAT SWITCH AND/OR OVERFLOW PIPE. PIPE AS ACCEPTABLE BY LOCAL BUILDING OFFICIALS FOR AIR HANDLERS.
- TEMPORARY CLOSURE OF POLYETHYLENE FILM OR SIMILAR COVERING SHALL BE PROVIDED AT ENDS OF DUCTS WHICH ARE NOT CONNECTED TO EQUIPMENT OR AIR DEVICES. AT THE TIME OF INSTALLATION, DUCTWORK AWAITING INSTALLATION, AND EQUIPMENT INSTALLED OR AWAITING INSTALLATION TO PREVENT DUST AND DEBRIS FROM ENTERING THE SYSTEM.
- PROVIDE SQUARE TO ROUND TAPS WHERE BRANCH DUCT DIAMETER IS EQUIVALENT TO MAIN DUCT HEIGHT.
- THE SYSTEM SHALL BE PROPERLY TESTED, ADJUSTED AND BALANCED. PROVIDE A LETTER TO THE OWNER STATING THE AIR DELIVERY AT EACH OUTLET IS WITHIN 10% OF THAT SPECIFIED ON THE DRAWING.

**LEGEND**

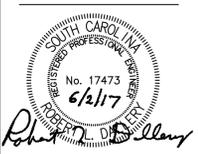


**NOTE TO BIDDERS/CONTRACTORS:**  
THE MECHANICAL DRAWINGS ARE A SCHEMATIC 2D REPRESENTATION OF A 3D SYSTEM. ALL FIELD CONDITIONS MAY NOT BE EVIDENT AT THE TIME OF ISSUANCE OF THIS DRAWING. SOME TURNS, ELEVATION CHANGES, DUCTWORK FITTINGS, ETC. WILL HAVE TO BE FABRICATED, CHANGED OR MODIFIED IN THE FIELD TO MEET THE CONDITIONS PRESENT AT THE TIME OF CONSTRUCTION. COORDINATE WITH ALL TRADES AS WELL AS ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. MECHANICAL CONTRACTOR SHALL OBTAIN A SET OF ARCHITECTURAL DRAWINGS FOR COORDINATION PRIOR TO SUBMITTING A BID.

**RENOVATION/ADDITION NOTE:**  
PREPARATION OF THESE CONSTRUCTION DRAWINGS IS BASED ON FIELD INVESTIGATIONS OF AS-BUILT CONDITIONS AS CONDUCTED BY THE ARCHITECT AND RAST DALLERY ENGINEERS, P.C. AS A RESULT, REASONABLE ASSUMPTIONS WERE MADE WITH RESPECT TO CONCEALED OR OTHERWISE INACCESSIBLE PORTIONS OF THE EXISTING CONSTRUCTION AND ITS SYSTEMS. AS SUCH, VARIED GRAPHIC DEPICTION OF THE WORK TO BE PERFORMED ARE CONCEPTUAL IN NATURE AND WILL BE SUBJECT TO ADJUSTMENTS IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS, SLOPES, CONNECTION TO EXISTING SERVICES AND OTHER UNITS OF MEASURE AS IT PERTAINS TO THE EXECUTION OF THE WORK, AND TO IDENTIFY DISCREPANCIES AND REPORT INFORMATION TO THE ARCHITECT AND OWNER FOR REVIEW AND ADJUSTMENTS.

**ELECTRICAL MATERIALS & INSTALLATION:**

- FURNISH AND INSTALL ALL NECESSARY MATERIALS, TOOLS AND LABOR FOR A COMPLETE AND FULLY OPERABLE WIRING SYSTEM AS INDICATED OR REASONABLY IMPLIED. ALL OUTLETS SHALL BE FULLY CONNECTED TO SOURCES OF CURRENT SUPPLY AND LEFT READY FOR USE. UNLESS OTHERWISE INDICATED, ALL MATERIALS SHALL BE NEW, FREE OF DEFECTS AND BE UL LISTED AND LABELED FOR THEIR INTENDED PURPOSE AND SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE N.E.C., LOCAL CODES AND ORDINANCES AND THE REQUIREMENTS OF THE UTILITY COMPANY. LOCAL CODES SHALL GOVERN IN THE EVENT OF A CONFLICT.
- CONTRACTOR SHALL APPLY FOR AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, LICENSES, ETC. REQUIRED IN CONNECTION WITH THIS WORK.
- ALL CONDUCTORS SHALL BE 75-DEGREE COPPER (THWN-THHN) INSTALLED IN METAL CONDUITS, RIGID OR EMT WITH COMPRESSION FITTINGS. WHERE ALLOWED BY PREVAILING CODES, EXCEPT FOR PANEL HOMERUNS.
- ALL PANEL HOMERUN CONDUCTORS SHALL BE INSTALLED IN METAL CONDUITS, RIGID, OR EMT WITH COMPRESSION FITTINGS. HOMERUNS SHALL BE THREE (3) CIRCUITS WHEREVER POSSIBLE, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- CONDUITS RUN UNDER FLOOR SLAB MAY BE SCHEDULE 40 PVC WITH RIGID METALLIC 90'S WHEN TURNED UP THROUGH SLAB.
- UNLESS OTHERWISE INDICATED, ALL CONDUIT AND CONDUCTORS SHALL BE INSTALLED CONCEALED AND OUTLETS SHALL BE FLUSH MOUNTED IN WALLS OR CEILINGS. OUTLET BOXES SHALL BE SIZED AND INSTALLED PER THE N.E.C.
- PROVIDE A COPPER EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUIT AND FEEDER CONDUITS, SIZED PER N.E.C. TABLE 250.122. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, GROUNDING TYPE RECEPTACLES, ETC., IN ACCORDANCE WITH N.E.C. ARTICLE 250.
- CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONNECTIONS TO MECHANICAL EQUIPMENT.
- CONTRACTOR SHALL WARRANTY ALL NEW EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRST BENEFICIAL USE BY THE OWNER, WHICHEVER COMES FIRST.
- CONTRACTOR SHALL VISIT THE SITE TO DETERMINE AND COORDINATE THE EXACT SCOPE OF WORK. NO CREDIT WILL BE GIVEN FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST CLARIFICATION OF ITEMS IN QUESTION ON THE ELECTRICAL DRAWINGS ASSOCIATED WITH THIS PROJECT PRIOR TO BID. NO CREDIT WILL BE GIVEN FOR ITEMS THAT ARE LOGICALLY REQUIRED, BUT NOT DETAILED.
- DO NOT DIMENSION FROM THESE DRAWINGS. SEE ARCHITECTURAL DRAWINGS OR OWNER FOR EXACT LOCATIONS OF DEVICES AND LUMINAIRES. DETAILS ON THESE DRAWINGS ARE FOR WIRING INFORMATION ONLY.
- PANEL AND DISCONNECT SWITCH LOCATIONS ARE DIAGRAMMATIC AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3", MAXIMUM, TO TOP OF CABINET. MAINTAIN N.E.C. WORK SPACE REQUIREMENTS FROM WALLS, CEILINGS AND OTHER ELECTRICAL AND NON-ELECTRICAL EQUIPMENT APPURTENANCES, ETC.
- CONTRACTOR SHALL PROVIDE FIRE CAULKING, OR OTHER APPROVED FIRESTOPPING METHOD, ON EACH SIDE OF ALL FIRE RATED PARTITIONS.
- CONTRACTOR SHALL VERIFY HEATING VENTILATING AND AIR CONDITIONING (HVAC) POWER CONDUCTORS AND CIRCUIT BREAKER SIZING WITH THE HVAC CONTRACTOR PRIOR TO ROUGH-IN AND PLACING FINAL ORDER FOR ELECTRICAL SWITCHGEAR.
- CONTRACTOR SHALL MEET INSTALLATION CRITERIA FOR SEISMIC REQUIREMENTS IN PROJECT LOCATION.



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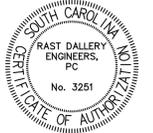
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514 ALDER STREET, SUITE 4  
MYRTLE BEACH, SC 29577  
PHONE: (843) 232-0408  
JOB NO: 17024

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MYRTLE BEACH, SC 29578

PROJECT

A NEW HVAC SYSTEM FOR  
MYRTLE BEACH LAW ENFORCEMENT CENTER  
SPECIAL OPERATION BUILDING  
MYRTLE BEACH, SOUTH CAROLINA

COMM: 17014  
FILE:  
DRAWN BY:  
PLOT: 1=1  
DATE: 5-25-17  
REV:

SHEET

**ME2.1**

RAST DALLERY ENGINEERS, PC  
514 ALDER STREET, SUITE 4  
MYRTLE BEACH, SC 29577  
PHONE: (843) 232-0408

JOB NO: 17024

HEAT PUMP SCHEDULE										
MARK	NOMINAL TONS	COOLING CAP. (MBH)		SEER	HEATING CAPACITY (MBH @ 27° F)	HSPF	VOLTS/PH.	MANUFACTURER & MODEL NO.	ACCESSORIES	
		TOTAL	SENSIBLE							
HP-1	2.5	31.9	24.4	15.0	21.1	9.0	240/1	TRANE 4TWR5030	1,2,3,4,5,6,7,8,9,10	
HP-2	3.0	36.9	26.7	17.0	23.6	9.0	240/1	TRANE 4TWR7036	1,2,3,4,5,6,7,8,9,10	

ACCESSORIES: 1. CRANKCASE HEATER 4. DISCONNECT SWITCH 7. SEACOAST COATED COILS 10. LONG LINE SET  
2. HARD START DEVICE 5. LOW AMBIENT CONTROL 8. HAIL/VANDAL GUARD 11. VARIABLE SPEED COMPRESSOR  
3. LIQUID LINE SOLENOID 6. ANTI-SHORT CYCLE TIMER 9. TWO STAGE COMPRESSORS

AIR HANDLER SCHEDULE											
MARK	CFM	O.A CFM	EXT. S.P. (IN.)	SUPP. ELECTRIC HEAT (KW@240V)	FAN HP	SPEED SETTING	VOLTS/PH.	MANUFACTURER & MODEL NO.	ACCESSORIES		
AH-1	1000	120	0.5	4.80	1/2	NORMAL	240/1	TRANE TAM7A0B30	1,2,3,4,5		
AH-2	1200	120	0.5	7.68	1/2	NORMAL	240/1	TRANE TAM7A0C36	1,2,3,4,5		

ACCESSORIES: 1. AUTO CHANGEOVER DIGITAL TEMPERATURE AND HUMIDITY CONTROLLER (THERMOSTAT) 4. CONDENSATE PUMP  
2. INTEGRAL DISCONNECT SWITCH 5. SINGLE POINT CONNECTION  
3. INTEGRAL FILTER FRAME

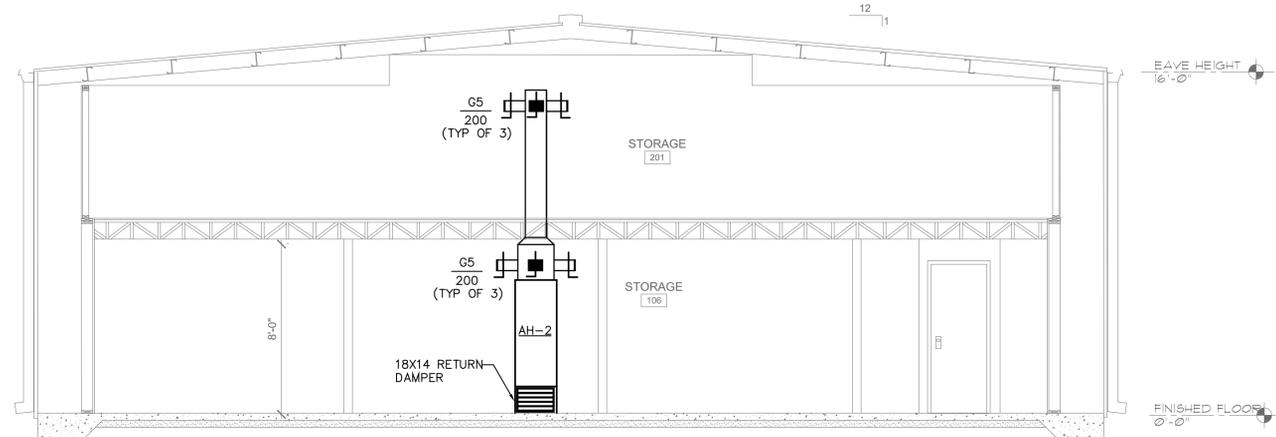
FAN SCHEDULE										
MARK	MAKE/MODEL	DESCRIPTION	TYPE	CFM	RPM	ESP	HP (WATTS)	VOLTS/PH.	ACCESSORIES	
VF-1	TWIN CITY WPB-36E4	WALL MOUNT PROPELLER	EXHAUST	6,000	496	0.125	3/4	115/1	2,6,8,9,10,11	

ACCESSORIES: 1. DISCONNECT SWITCH 5. ALUMINUM WALL CAP WITH DAMPER 9. WALL COLLAR, SHUTTER, WIRE GUARD 12. EXPANDED METAL COVER  
2. BACKDRAFT DAMPER 6. BIRDSCREEN - ALUMINUM 10. WEATHER HOOD  
3. DELUXE ALUMINUM GRILLE 7. WALL BOX WITH SCREEN 11. THERMOSTAT AND TIMER  
4. FAN SPEED CONTROLLER 8. OSHA MOTOR GUARD OVERRIDE (LINE VOLTAGE)

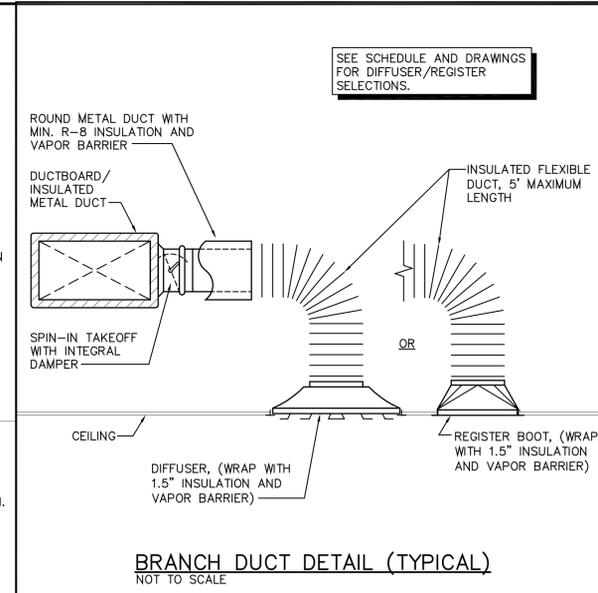
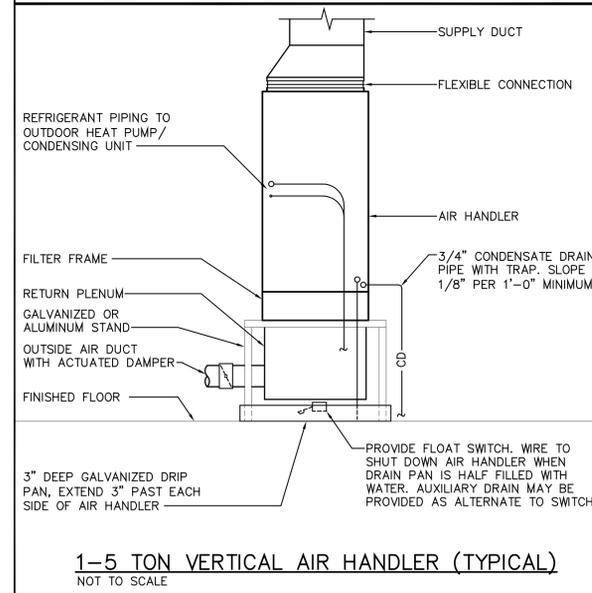
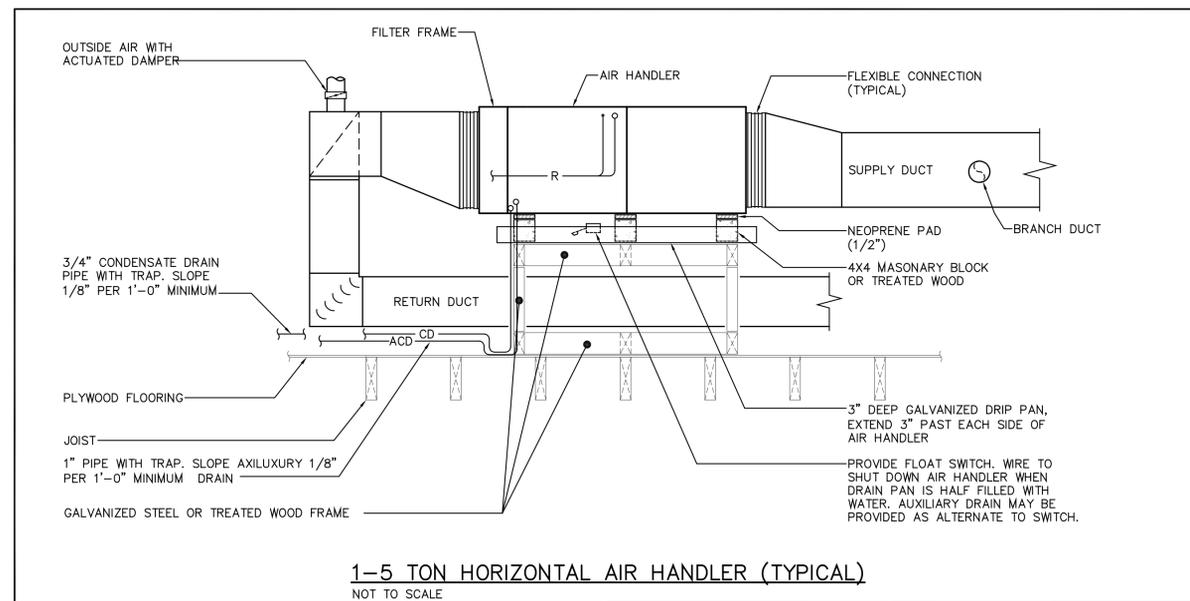
DIFFUSER, REGISTER, AND LOUVER SCHEDULE							
MARK	DESCRIPTION	SERVICE	CFM	STAT. PRESS.	NECK SIZE	MANUFACTURER & MODEL NO.	ACCESSORIES
CD1	CEILING DIFFUSER	SUPPLY	0-100	.056	6"ø	TITUS TMSA-AA (12"x12" or 24"x24" FACE)	1,3,5
CD2	CEILING DIFFUSER	SUPPLY	101-245	.074	8"ø	TITUS TMSA-AA (24"x24" FACE)	1,3,5
CD3	CEILING DIFFUSER	SUPPLY	246-380	.084	10"ø	TITUS TMSA-AA (24"x24" FACE)	1,3,5
CD4	CEILING DIFFUSER	SUPPLY	381-550	.098	12"ø	TITUS TMSA-AA (24"x24" FACE)	1,3,5
CD5	CEILING DIFFUSER	SUPPLY	551-700	.098	14"ø	TITUS TMSA-AA (24"x24" FACE)	1,3,5
G1	CEILING/SIDEWALL GRILLE	SUPPLY	0-100	.016	10"x4"	TITUS 272FL/FS	2,4
G2	CEILING/SIDEWALL GRILLE	SUPPLY	101-250	.025	12"x6"	TITUS 272FL/FS	2,4
G3	CEILING/SIDEWALL GRILLE	SUPPLY	251-325	.02	12"x8"	TITUS 272FL/FS	2,4
G4	CEILING/SIDEWALL GRILLE	SUPPLY	326-500	.02	18"x8"	TITUS 272FL/FS	2,4
G5	CEILING/SIDEWALL GRILLE	SUPPLY	501-650	.02	18"x10"	TITUS 272FL/FS	2,4
R1	RETURN GRILLE	RETURN	< 600	---	---	TITUS 50FF (24"x12" FACE)	3
R2	RETURN GRILLE	RETURN	601-2000	---	---	TITUS 50FF (24"x24" FACE)	3
R3	RETURN GRILLE	RETURN	< 600	---	---	TITUS 355RLF (24"x12" FACE)	2

ACCESSORIES: 1. NECK DAMPER 2. SURFACE MOUNT 3. LAY-IN  
4. PROVIDE OPPOSED BLADE DAMPER (FACE OPERATED)  
5. PROVIDE BORDER FOR CEILING TYPE.

NOTES:  
1. BRANCH DUCT TO BE DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE  
2. DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE INDICATED BY FLOW ARROWS (→)  
3. ARCHITECT TO APPROVE/CONFIRM COLOR OF DIFFUSERS/REGISTERS/GRILLES/LOUVERS.



**1 STORAGE AREA MECHANICAL DETAIL**  
ME2.1 SCALE: NONE



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