

LIFE SAFETY LEGEND

	Unrated wall		Exterior Exit
	Smoke Partition		Compartment ID
	1 Hour Fire Barrier		Suite ID
	2 Hour Fire Barrier		Hazardous Area
	1 Hour Fire Smoke Barrier		Distance to Exit
	2 Hour Fire Smoke Barrier		
	Exit Stairwell		
	Suites		
	Exit Discharge Passageway		
	Area under Construction		

SCHEDULES AND NOTES

1ST FLOOR - EXISTING HEALTHCARE OCCUPANCY

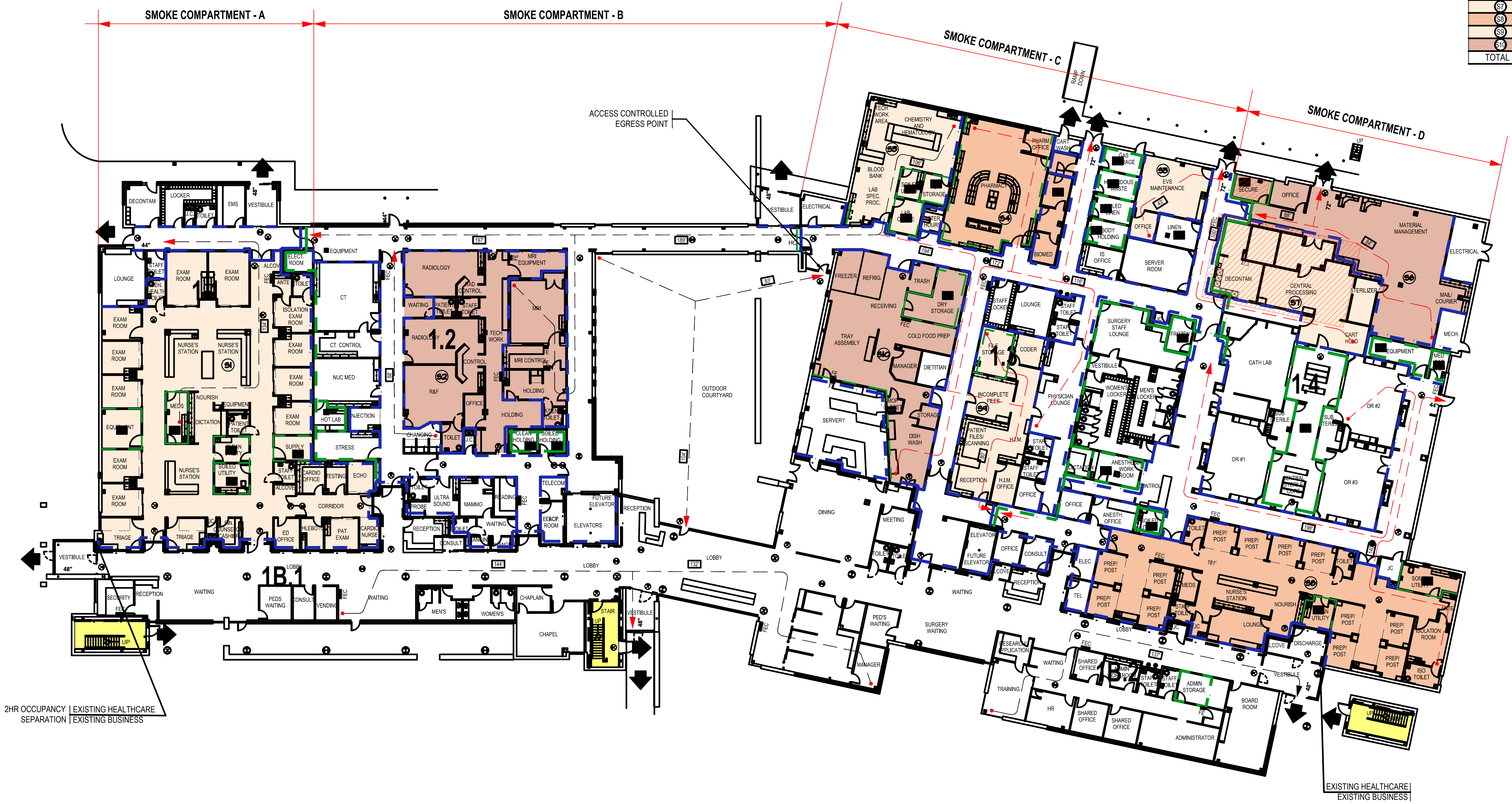
COMPARTMENT ID	COMPARTMENT SQ. FT.	OCCUPANT LOAD	SPRINKLER SYSTEM	AREA USE	DISTANCE EXIT
1.1	10,122	34	FULL	TREATMENT	134'
1.2	11,508	86	FULL	TREATMENT	197'
1.3	15,383	55	FULL	TREATMENT	194'
1.4	18,970	38	FULL	TREATMENT	130'
TOTAL	55,983	213			

1ST FLOOR - EXISTING BUSINESS OCCUPANCY

COMPARTMENT ID	COMPARTMENT SQ. FT.	OCCUPANT LOAD	SPRINKLER SYSTEM	AREA USE	DISTANCE EXIT
1B.1	17,629	35	FULL	BUSINESS	144'
	14,540	29	FULL	BUSINESS	137'
TOTAL	32,169	64			

1ST FLOOR - SUITE INFORMATION

SUITE ID	SUITE SQ. FT.	SLEEPING/ NON SLEEPING	NUMBER OF INTERVENING RMS	REMOTE EXIT REQUIREMENTS	DISTANCE EXIT
S1	8,042	NON SLEEPING	1	2 REMOTE EXITS	134'
S2	3,768	NON SLEEPING	1	1 REMOTE EXIT	88'
S3	1,162	NON SLEEPING	1	1 REMOTE EXIT	106'
S4	1,750	NON SLEEPING	1	1 REMOTE EXIT	70'
S5	546	NON SLEEPING	1	1 REMOTE EXIT	43'
S6	1,786	NON SLEEPING	1	1 REMOTE EXIT	84'
S7	1,596	NON SLEEPING	1	1 REMOTE EXIT	100'
S8	4,716	NON SLEEPING	1	1 REMOTE EXIT	181'
S9	1,440	NON SLEEPING	1	1 REMOTE EXIT	80'
S10	3,120	NON SLEEPING	1	1 REMOTE EXIT	172'
TOTAL	28,076				

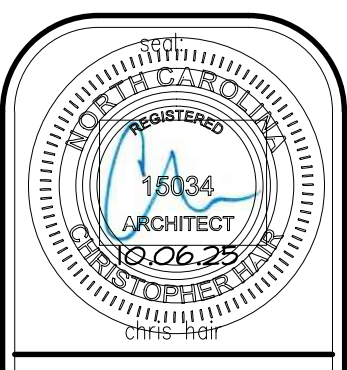


2HR OCCUPANCY | EXISTING HEALTHCARE
SEPARATION | EXISTING BUSINESS

EXISTING HEALTHCARE | EXISTING BUSINESS

C.D. HAIR ARCHITECT
 2255 Vista Parkway
 Suite 12
 West Palm Beach, FL
15034

revision:



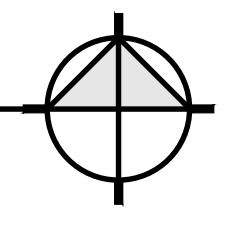
An Interior Renovation for:
**Harnett Health
 Central Sterile Renovation**
 215 Brighthouse Drive
 Lillington, North Carolina

job no. 24-029
 principal: CHRIS HAIR
 CH
 file name:
 date: 09.26.25
 title:

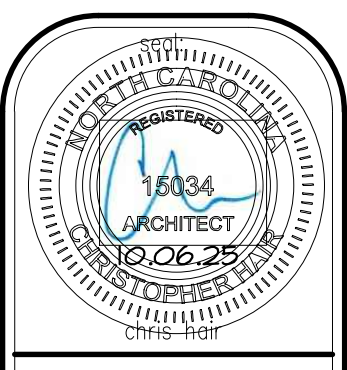
LIFE SAFETY PLAN

A010

7 | A



revision:



An Interior Renovation for:
**Harnett Health
 Central Sterile Renovation**
 215 Brighthwater Drive
 Lillington, North Carolina

job no. 24-029
 principal: CHRIS HAIR
 CH
 file name:
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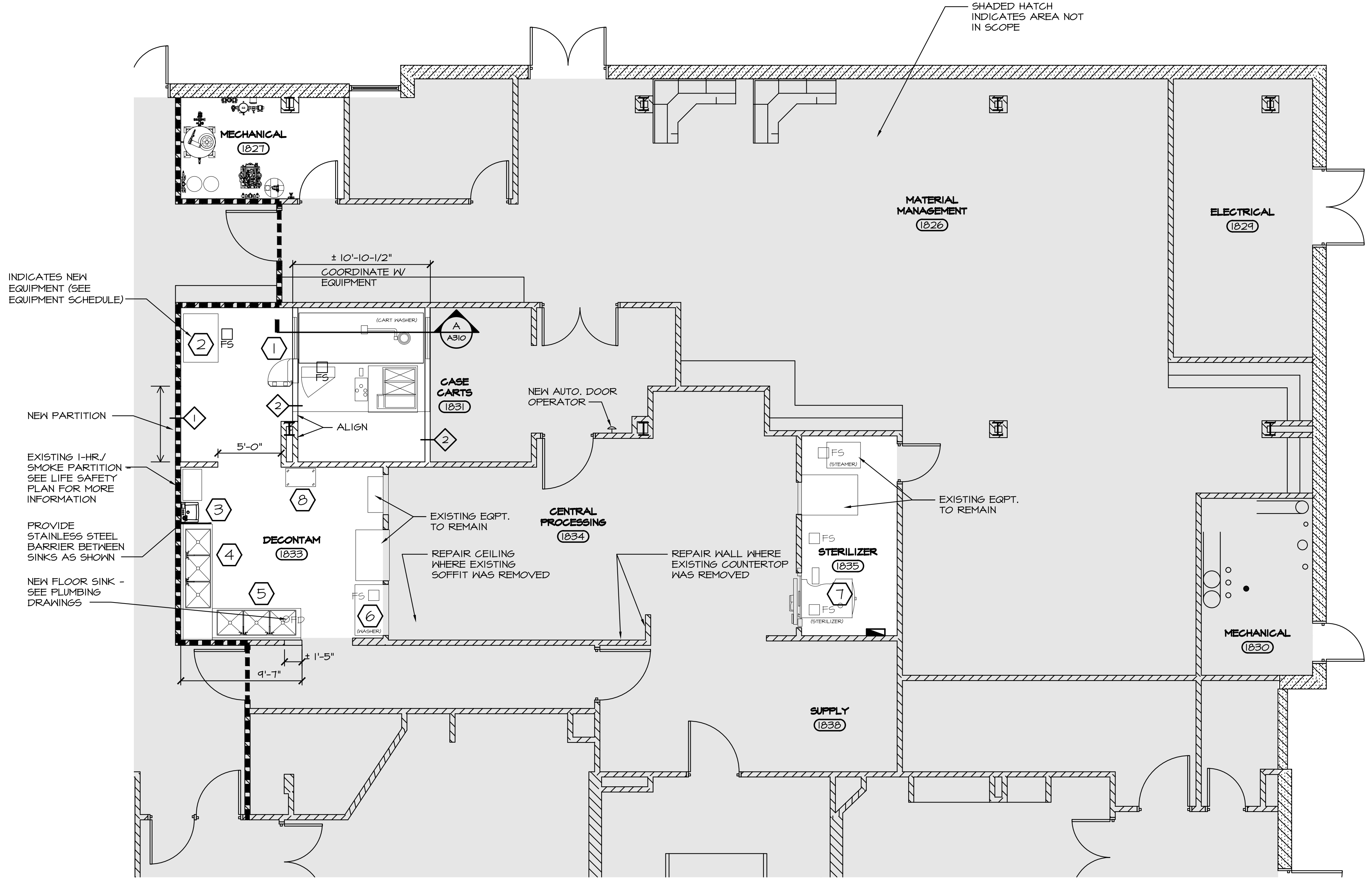
EQUIPMENT SCHEDULE			
ITEM	DESCRIPTION	MANUF.	MODEL
①	CART WASHER	STEELCO	LC80/2
②	ENDOSCOPE CLEANER	EVOTECH	SP60
③	SINK W/ EYEWASH	-	-
④	3-COMP PROCESSING SINK	MAC MEDICAL	W SIDE TOP
⑤	3-COMP PROCESSING SINK	MAC MEDICAL	-
⑥	WASHER	STEELCO	DS 1000 15
⑦	STERILIZER	STERIS	AMSCO CENTURY
⑧	ULTRASONIC CLEANER	EXISTING	EXISTING

- PLAN NOTES:**
- CONTRACTORS TO VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCEMENT AND REPORT ANY DISCREPANCIES TO THE ARCHITECT
 - ALL PENETRATIONS, NEW AND EXISTING THROUGH RATED PARTITIONS MUST MEET UL APPROVED STANDARDS - SUBMIT SYSTEM TO ARCHITECT FOR APPROVAL. FIELD VERIFY PRIOR TO BID.
 - PROVIDE SOLID WOOD BACKING FOR ALL WALLS TO RECEIVE COUNTERS, CABINETS, DOOR STOPS, SINKS, TOILET ACCESSORIES, CHAIR RAILS, AND OTHER RELATED INSTALLATIONS. THE INSTALLATIONS SHALL BE INSPECTED BY THE ARCHITECT PRIOR TO COVERING WITH DRYWALL.
 - THE NOTE HOLD ON DIMENSION STRINGS INDICATE MINIMUM CLEAR FINISH DIMENSIONS.
 - PENETRATIONS THROUGH FIRE RATED PARTITIONS WILL BE FIRE CAULKED WITH THE UL SYSTEM NO. W-L-1044.

- PARTITION LEGEND:**
- ① NEW 1-HOUR RATED AND SMOKE PARTITION (SEE DETAIL 1/A310)
 - ② S.S. WALL PANELS BY VENDOR (SEE DETAIL 2/A310)

NOTE: ALL ITEMS SHOWN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE

SHADED HATCH INDICATES AREA NOT IN SCOPE



INDICATES NEW EQUIPMENT (SEE EQUIPMENT SCHEDULE)

NEW PARTITION

EXISTING 1-HR./ SMOKE PARTITION SEE LIFE SAFETY PLAN FOR MORE INFORMATION

PROVIDE STAINLESS STEEL BARRIER BETWEEN SINKS AS SHOWN

NEW FLOOR SINK - SEE PLUMBING DRAWINGS

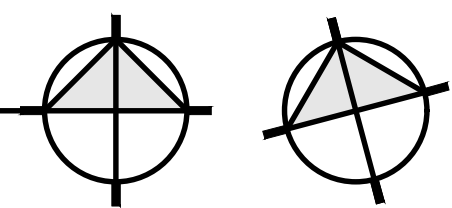
± 10'-10-1/2" COORDINATE W/ EQUIPMENT

5'-0"

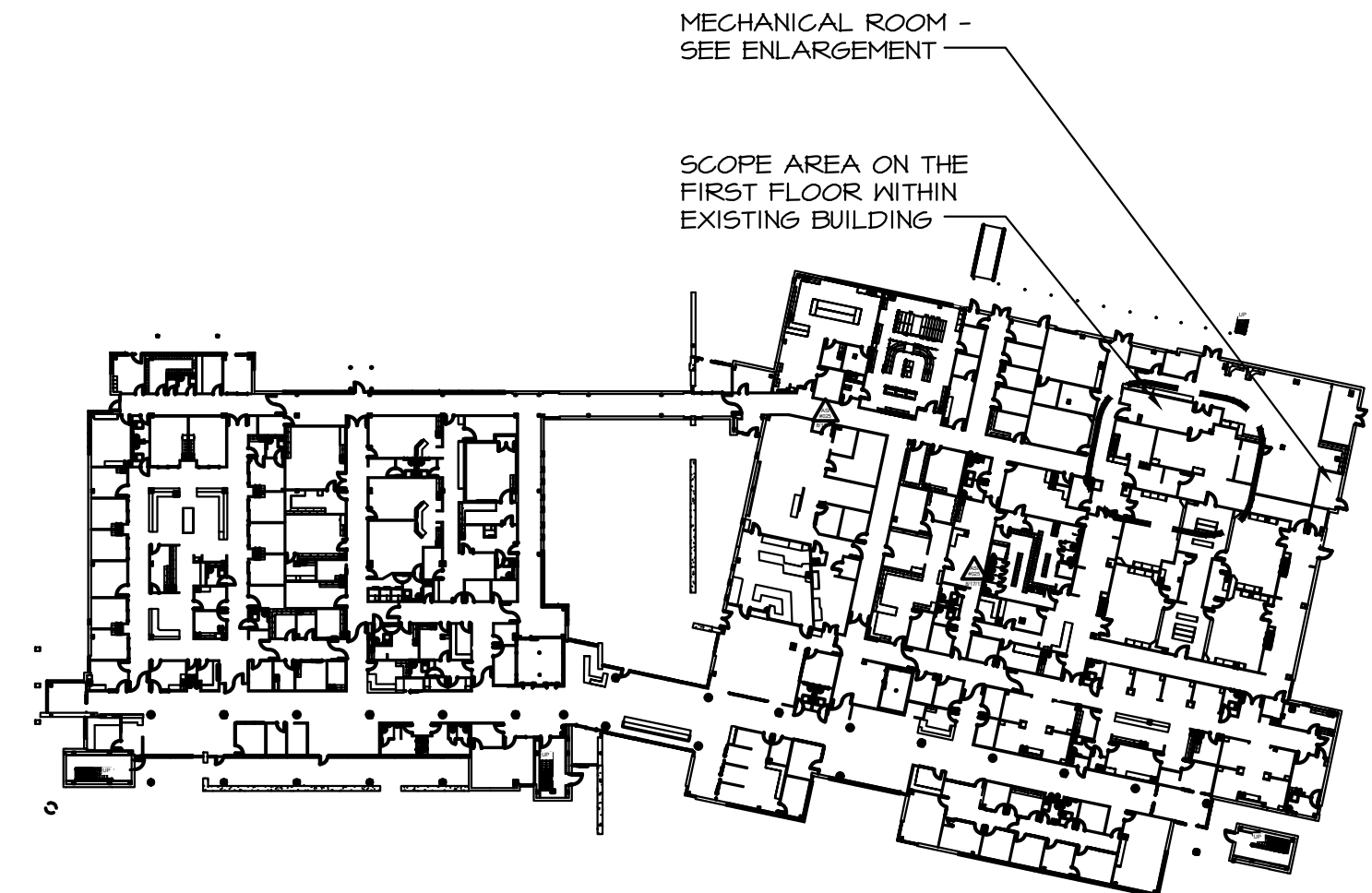
9'-7"

1'-5"

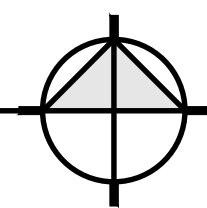
PLAN NORTH TRUE NORTH

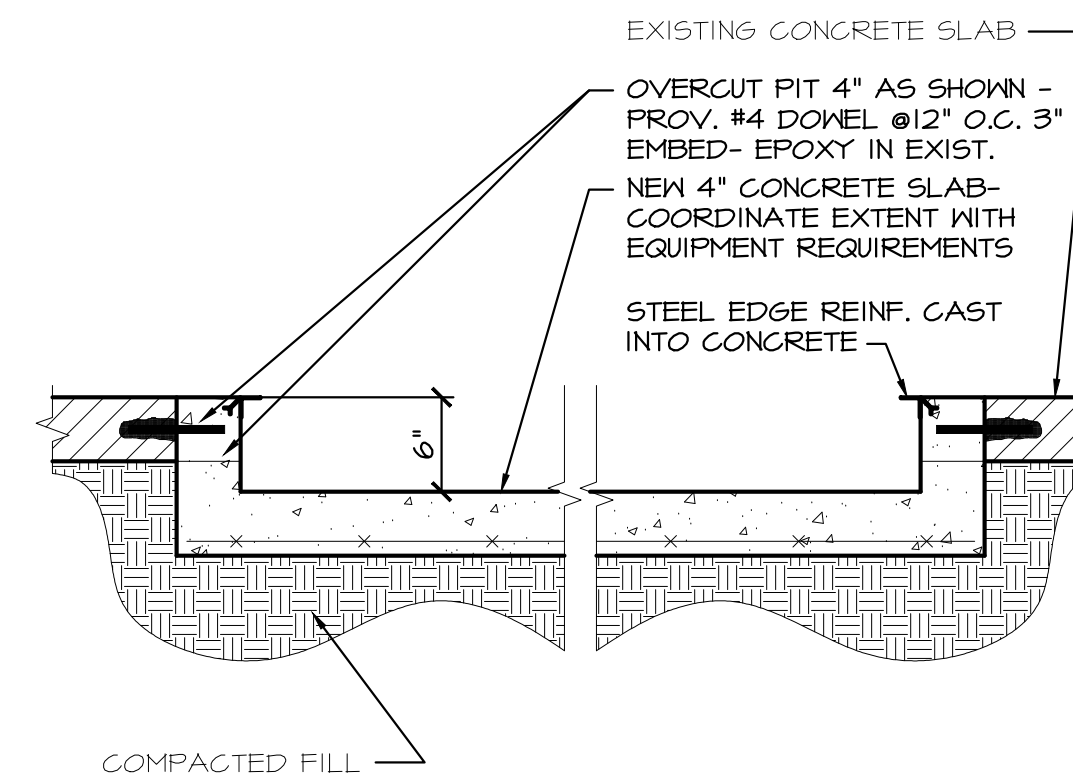


FIRST FLOOR PLAN
 3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
 NTS





EXISTING / NEW CONCRETE SLAB CONNECTION

1" = 1'-0"

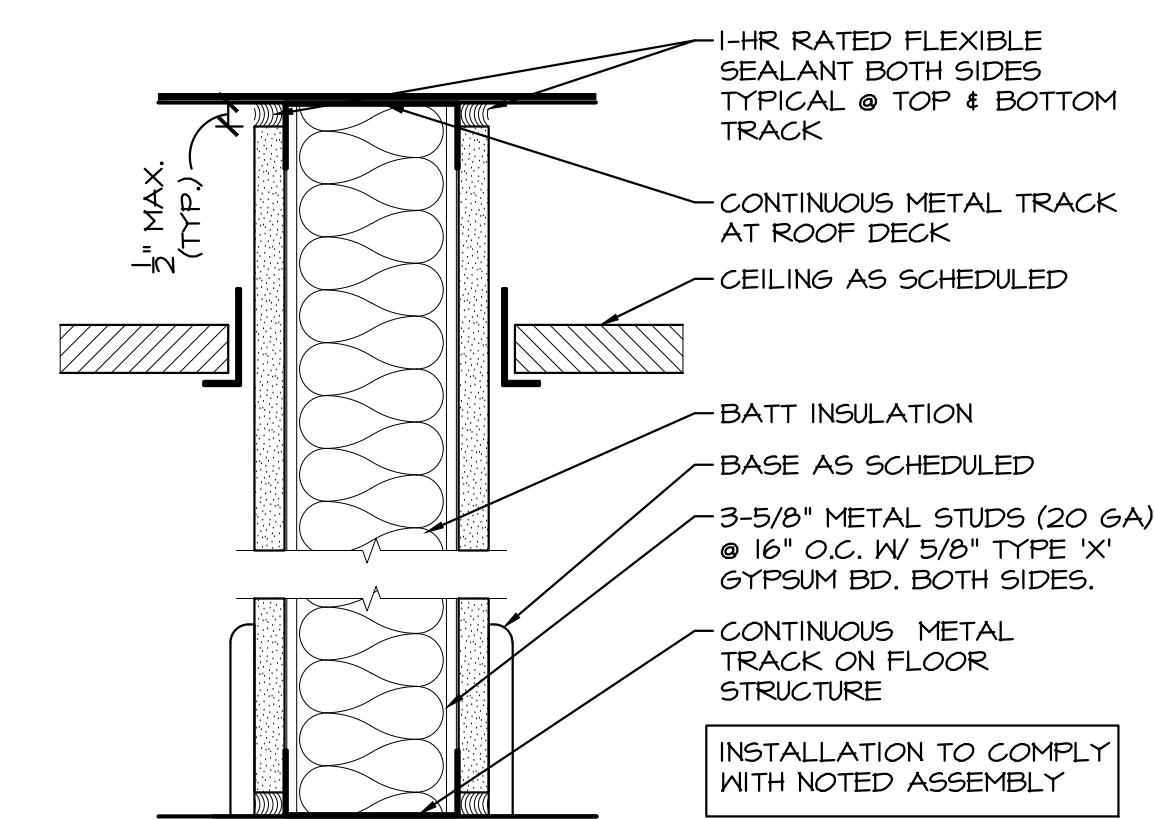
AS10

STRUCTURAL NOTES:

1. ALL WORK SHALL CONFORM TO AT MINIMUM, THE STANDARDS OF THE SOUTH CAROLINA BUILDING CODE, 2021.
2. FOUNDATION DESIGN VALUE CERTIFICATION: THIS IS TO CERTIFY THAT THIS OFFICE HAS DETERMINED BY RATIONAL ANALYSIS AND THE FACT THAT THE SITE IS IN A DEVELOPED AREA THAT THE ALLOWABLE IN-PLACE BEARING CAPACITY FOR THE PROPOSED FOOTING IS 2,000 PSF.
3. THE SLAB UNDER THE EQUIPMENT IS NEW AND SHALL BEAR ON COMPACTED SOIL (3,000 PSF MIN). OBTAIN COMPRESSION TESTS VERIFYING BEARING CAPACITY. COMPACT TO 45% MODIFIED PROCTOR.
4. SEE CONCRETE NOTES FOR NEW EQUIPMENT SLAB.
5. CONTRACTOR SHALL SUBMIT A DESIGN MIX ATTESTING TO THE CONCRETE STRENGTH. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR MAINTAINING STRENGTH AND PROPER SLUMP DURING CONSTRUCTION.
6. MESH IN SLABS TO BE 6X6 W2.9X2.9. CHAIR IN MID HEIGHT OF SLAB.
7. PROVIDE TERMITE TREATMENT TO SOIL AT ALL NEW CONCRETE SLABS OR SLAB ALTERATIONS; SUBMIT INSECTICIDE FOR APPROVAL.
8. COORDINATE WITH THE RESPECTIVE EQUIPMENT DRAWINGS FOR EXACT PLACEMENT OF UNDERSLAB PIPING.
9. REFER TO THE RESPECTIVE EQUIPMENT DRAWINGS FOR FLOOR LEVEL TOLERANCES.

CONCRETE NOTES:

- CONCRETE AND REINFORCING
- 3a CONCRETE WORK SHALL CONFORM TO ACI CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-11)
- 3b ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH & PROPERTIES AS FOLLOWS:
- | | MAX. SLUMP | WATER/CMT |
|--------------------------------------------|------------|-----------|
| SLAB ON GRADE & SCANNER PADS- 4000 PSI 54" | 0.56 | |
- 3c CONCRETE MIX DESIGN SUBMITTALS MUST INCLUDE THE AREA IN WHICH THE CONCRETE IS TO BE PLACED (e.g. FOUNDATIONS, SLAB-ON-GRADE, FILLED CELLS, COLUMNS, etc.) FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.
- 3d REBARS SHALL CONFORM TO ASTM-615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- 3e MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.
- | | |
|----------------|------------------|
| FOOTINGS | 3" |
| SLABS ON GRADE | 1 1/2" FROM TOP |
| BEAMS | 1 1/2" (ON TIES) |
| COLUMNS | 1 1/2" (ON TIES) |
- 3f SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.
- | | |
|--------------------|-------------------|
| WELDED WIRE FABRIC | 6" |
| ALL OTHER | 36 DIA. (12" MIN) |
- 3g REINFORCEMENT IN WALLS, FOOTINGS AND BEAMS SHALL BE CONTINUOUS AND LAPPED 36 BAR DIA AT SPLICE UNLESS OTHERWISE NOTED. HOOK AND LAP ALL CORNER AND INTERSECTING BARS.
- 3h TERMINATE ALL DISCONTINUED ELEVATED SLAB TOP BARS WITH A 180 DEGREE STANDARD HOOK UNLESS OTHERWISE NOTED.
- 3i CONTINUOUS TOP BARS SHALL BE SPLICED AT MIDSPAN. CONTINUOUS BOTTOM BARS SHALL BE SPLICED AT CENTER-LINE OF SUPPORTS (OR AS SHOWN ON TYPICAL DETAILS).



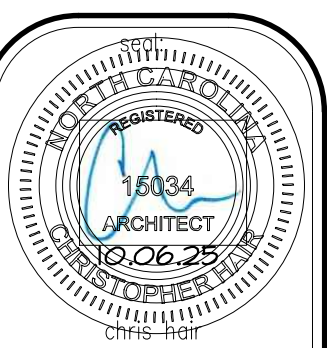
1-HOUR RATED PARTITION - (U.L. #U465)

3" = 1'-0"

AS10

C.D. HAIR ARCHITECT
 2255 Vista Parkway
 Suite 12
 West Palm Beach, FL
 33411
 15034

revision:



An Interior Renovation for:
**Harnett Health
 Central Sterile Renovation**
 215 Brightwater Drive
 Lillington, North Carolina

job no. 24-029
 principal: CHRIS HAIR
 CH

file name:

date: 09.26.25
 title:

DETAILS

A310

7 A

ELECTRICAL NOTES

<p>1. THE CONTRACTOR SHALL BE FULLY COGNIZANT OF THE LATEST EDITION OF THE 2018 NORTH CAROLINA STATE BUILDING CODE, 2017 NEC, 2015 NFPA101, 2013 NFPA72, AND ALL LOCAL CODES, ORDINANCES OF THE AUTHORITIES HAVING JURISDICTION AND PERFORM ALL WORK IN ACCORDANCE WITH THE INTENT AND REQUIREMENTS OF THESE CODES, ORDINANCES AND AUTHORITIES.</p> <p>2. DO NOT SCALE DRAWINGS: VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF ALL WORK. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF ELECTRICAL SYSTEMS.</p> <p>3. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN TO "FURNISH AND INSTALL".</p> <p>4. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.</p> <p>5. PROVIDE WITH SHOP DRAWING SUBMITTAL, 1/4" SCALE LAYOUT DRAWINGS OF AREAS WITH ELECTRICAL SWITCHGEAR AND TRANSFORMERS. LAYOUT SHALL SHOW LOCATIONS OF AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT AND MECHANICAL EQUIPMENT SHALL BE DRAWN TO SCALE.</p> <p>6. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.</p> <p>7. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SHALL PROVIDE LIGHTS, SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, EQUIPMENT CONNECTIONS, ETC. AND ASSOCIATED CIRCUITING IN NEW AND REMODELED AREAS. EVEN IF SUCH AREAS ARE NOT SHOWN ON THE ELECTRICAL DRAWINGS, LAYOUTS, FIXTURE TYPES, QUANTITIES AND SPACING SHALL BE IN ACCORDANCE WITH SIMILAR AREAS ON THIS PROJECT. THE CONTRACTOR SHALL INCLUDE COSTS FOR THE ABOVE IN HIS BID. IN ADDITION, THE CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS FOR WORK IN SUCH AREAS AND SUBMIT FOR APPROVAL PRIOR TO ROUGH-IN.</p> <p>8. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID AND SHALL COORDINATE ALL TRADES TO PROVIDE A COMPLETE PRODUCT TO AVOID CONFLICTS BETWEEN TRADES, AND TO DETERMINE WHICH TRADE IS TO PERFORM THE NECESSARY WORK. COORDINATION BETWEEN TRADES SHALL INCLUDE LOW VOLTAGE WIRING.</p> <p>9. PROVIDE SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUIVALENT" OR "APPROVED EQUIVALENT" LISTING SHALL BE SUBMITTED TO THE ARCHITECT NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO BID. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.</p> <p>10. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, CONSISTENT WITH THE HIGHEST LEVEL OF STANDARDS AND TO THE SATISFACTION OF THE ARCHITECT.</p> <p>11. ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW AND IN CONFORMANCE WITH APPLICABLE PROVISIONS OF NEMA, ANSI U.L., ETC AND SHALL BEAR AN APPROVED TESTING AGENCY LABEL WHERE APPLICABLE.</p> <p>12. PROVIDE PERMITS AND INSPECTIONS AS REQUIRED.</p> <p>13. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.</p> <p>14. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION BY CONTRACTORS, WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.</p> <p>15. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, THE CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO THE OWNER.</p> <p>16. THE CONTRACTOR SHALL PROVIDE OPERATING MANUALS TO THE OWNER.</p> <p>17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ELECTRICAL UTILITY COMPANY FURNISHED CONDUIT FOR THE PRIMARY CONDUCTORS FROM THE PRIMARY POINT OF CONNECTION TO THE PAD MOUNT TRANSFORMER, PROVIDING A CONCRETE PAD PER ELECTRICAL UTILITY CO. REQUIREMENTS, AND TO COORDINATE WITH ALL REQUIREMENTS FOR CONDUIT ENTRY AND CABLE TERMINATIONS IN THE UTILITY TRANSFORMER. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.</p>	<p>18. PROVIDE EXPANSION FITTINGS IN CONDUIT RUNS CROSSING STRUCTURAL EXPANSION JOINTS.</p> <p>19. WIRE SHALL BE COPPER, 75 DEGREES C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLOURESCENT BALLAST WIRE SHALL BE COPPER, MINIMUM 90 DEGREES C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREES C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS. THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTOR TO MEET VOLTAGE DROP REQUIREMENTS WHERE FIELD CONDITIONS INCREASE THE CONDUIT RUN LENGTH SUCH THAT THE VOLTAGE DROP IS EFFECTED.</p> <p>20. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULL WIRE OR EQUIVALENT AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGIN AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.</p> <p>21. PRESENT SHOP DRAWING SUBMITTAL DATA AT ONE TIME. SUBMITTAL SHALL BE SUBMITTED IN PDF FORM WITH CONTRACTOR APPROVAL PRIOR TO SUBMITTAL. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO: LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, WIRING DEVICES, SAFETY SWITCHES, FUSES, MOTOR STARTERS, LAMPS, CONDUIT, CONDUIT FITTINGS AND TRANSFORMERS.</p> <p>22. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.</p> <p>23. CONTRACTORS FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIAL, EQUIPMENT OR INSTALLATION METHODS.</p> <p>24. SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE.</p> <p>25. RECEPTACLES WHICH ARE SHOWN WALL MOUNTED ON THE ELECTRICAL DRAWINGS ON WALLS WHICH, ON THE ARCHITECTURAL DRAWINGS AND ELEVATIONS ARE SHOWN AS GLASS OR PARTITIONS, SHALL BE FLUSH FLOOR DUPLEX RECEPTACLES MOUNTED ADJACENT TO BASE OR WALLS.</p> <p>26. BOXES FOR TELEPHONE, T.V., COMPUTER, WIRING DEVICES, ETC., SHALL BE MINIMUM 4" SQUARE. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL AND INTERIOR DRAWINGS FOR ALL ROUGH-IN LOCATIONS FOR APPLIANCES. IF NO LOCATION IS INDICATED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION.</p> <p>27. GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE AREAS TO COMPLY WITH NEC 517.13 (A) & (B) AND NEC 517.31</p> <p>28. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITIES</p> <p>29. THE LIGHTING HAS BEEN DESIGNED IN ACCORDANCE OF THE STATE OF NORTH CAROLINA STATE BUILDING CODE, ENERGY EFFICIENCY CODE, CHAPTER 13 (2018 EDITION).</p> <p>30. VOLTAGE DROP CALCULATIONS ON ALL FEEDERS AND BRANCH CIRCUITS HAVE BEEN PERFORMED WITH A MAXIMUM OF 5 PERCENT VOLTAGE DROP TOTAL. THE CONTRACTOR IS RESPONSIBLE TO BE FAMILIAR WITH CHAPTER 13 AND SHALL UPSIZE THE CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS BASED ON THE ACTUAL ROUTING IN THE FIELD.</p> <p>31. THE CONTRACTOR SHALL HAVE A QUALIFIED PERSON COMMISSION ALL LIGHTING CONTROL SYSTEMS PRIOR TO OBTAINING THE C.O. THE PERSON SHALL TRAIN THE OWNER ON THE OPERATION OF THE LIGHTING CONTROLS.</p> <p>32. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH P.V.C. JACKET OR APPROVED EQUIVALENT PROTECTION. MET FITTINGS SHALL BE MALLEABLE IRON OR STEEL. CONNECTORS SHALL BE INSULATED THROAT TYPE.</p> <p>33. NON-METALLIC AND FLEXIBLE CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.</p> <p>34. FIRE ALARM, SOUND, TELEPHONE, COMPUTER, AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).</p>	<p>35. THE CONTRACTOR SHALL PROVIDE GFCI PROTECTION FOR PERSONNEL AS PER 2017 NEC 210.8(B).</p> <p>36. FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH SEAL TITE FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.</p> <p>37. WHERE PANELS ARE INSTALLED FLUSH WITH WALLS, EMPTY CONDUITS SHALL BE EXTENDED FROM THE PANEL TO AN ACCESSIBLE SPACE ABOVE OR BELOW. A MINIMUM OF ONE 3/4" C. SHALL BE INSTALLED FOR EVERY THREE SINGLE POLE SPARE CIRCUIT BREAKERS OR SPACES, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS. FLUSH MOUNTED PANEL SHALL BE INSTALLED IN 6" WALLS. COORDINATE WITH GENERAL CONTRACTOR.</p> <p>38. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75 DEGREE C.</p> <p>39. ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROLS, INTERLOCKS, ACCESSORIES, ETC., IN MOTOR CONTROL. STARTERS AS REQUIRED BY THE TEMPERATURE CONTROL CONTRACTOR. STARTERS SHALL CONTAIN 120V CONTROL TRANSFORMER, PILOT LIGHT, AND PUSH BUTTONS OR SELECTOR SWITCH AS REQUIRED. IN ADDITION TO OTHER ITEMS (AUXILIARY CONTACTS, DOOR SWITCHES, RELAYS, ETC.) REQUIRED, SUBMIT ELEMENTARY CONTROL DIAGRAMS FOR APPROVAL. SUBMITTALS SHALL INCLUDE INDICATION OF PRIOR REVIEW AND ACCEPTANCE BY TEMPERATURE CONTROL CONTRACTOR. REFER TO DIV. 15 DRAWINGS AND TEMPERATURE CONTROL DIAGRAMS FOR ADDITIONAL CONDUIT, WIRE, RELAYS, TRANSFORMERS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.</p> <p>40. RECEPTACLE AND TELEPHONE OUTLETS AT COUNTER SHALL BE MOUNTED WITH THEIR LONG AXIS HORIZONTAL AT +42" UNLESS NOTED.</p> <p>41. PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.</p> <p>42. DISCONNECT SWITCHES SHALL BE GENERAL DUTY TYPE. FUSIBLE SWITCHES SHALL ACCEPT CLASS "R" FUSES ONLY. AND REJECT ALL OTHERS.</p> <p>43. PROVIDE DYMO-TAPE TAG INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.</p> <p>44. DEVICES SHALL BE AS FOLLOWS: (OR OTHERWISE AS NOTED) A. SWITCHES - HUBBELL #5362 SERIES B. SWITCHES - HUBBELL #1221 SERIES C. DIMMERS - LUTRON "NOVA" SERIES D. THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY ARCHITECT. IN DAMP OR WET LOCATIONS COVER PLATES SHALL BE STAINLESS STEEL. IN DRY LOCATIONS COVER PLATES SHALL BE SMOOTH HIGH ABUSE NYLON OR EQUIVALENT. PROVIDE COVER PLATES FOR SWITCHES, RECEPTACLES, TELEPHONE, TELEVISION, COMPUTER, AND J-BOX OUTLETS AS REQUIRED.</p> <p>45. THE CONTRACTOR SHALL COORDINATE WITH THE TELEPHONE UTILITY FOR PROVIDING THE REQUIRED CONDUIT SIZE AND NUMBER TO THE TENANT SPACE. THE CONTRACTOR SHALL PROVIDE ALL CONDUITS WITH PULL CORDS AND SHALL INSTALL FROM THE LOCAL TELEPHONE BOARD TO THE MAIN POINT OF SERVICE</p> <p>46. FIRE ALARM SYSTEM, CONTRACTOR SHALL PROVIDE DEVICES, CONDUIT, WIRES AND CABLE AS DIRECTED BY EQUIPMENT AND WORKMANSHIP SHALL MEET PREVAILING CODES. THE SYSTEM SHALL BE COMPLETE AND OPERABLE IN EVERY RESPECT. SUBMIT SINGLE LINE OF SYSTEM WITH SHOP DRAWINGS. THIS SINGLE LINE DIAGRAM SHALL SHOW DEVICES, CONDUIT, WIRE AND CABLE SIZES. EQUIPMENT TO BE USED AND SHALL BE STAMPED AND SIGNED BY LOCAL FIRE DEPARTMENT. SYSTEM CALIBRATION AND TESTING SHALL BE BY FACTORY CERTIFIED TECHNICIAN.</p> <p>47. SEE DIVISION 22 & 23 DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED.</p> <p>48. SPLICES IN EXTERIOR PULL BOXES AN MANHOLES SHALL BE MADE WATER PROOF USING "SCOTCHCAST" SPLICE KIT OR APPROVED EQUIVALENT. SEAL ENDS OF CONDUITS AND DUCTS WITH "DUCT SEAL" OR APPROVED EQUIVALENT</p>	<p>49. PROVIDE A GREEN GROUND CONDUCTOR AND METAL RACEWAY IN ALL BRANCH CIRCUITS FEEDING OUTLETS IN MEDICAL EXAM ROOMS & PATIENT CARE ROOMS AS PER 2017 NEC 517.13. PROVIDE EMT METAL RACEWAY OR HEALTH CARE RATED MC CABLE AS PER 2017 NEC 517.13.</p> <p>50. PROVIDE APPROVED FIRE STOPPING MATERIALS AT ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO PREVENT THE PASSAGE OF SMOKE, FIRE HOT GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING OR AFTER A FIRE, AS REQUIRED BY ARTICLE 300, OF THE NEC.</p> <p>51. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CLIPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE FUSE STORED THEREIN. PROVIDE NAMEPLATE "SPARE FUSES". INSTALL IN LOCATIONS AS DIRECTED BY OWNER.</p> <p>52. PULL BOXES, CABINETS, ETC., MOUNTED ON THE EXTERIOR AT GRADE LEVEL SHALL BE WEATHER PROOF TYPE WITH HINGED LOCKABLE COVERS SECURED WITH TAMPER-PROOF SCREWS.</p> <p>53. FLUSH FLOOR RECEPTACLE OUTLETS SHALL BE HUBBELL #B-2529 WITH BRASS COVER #S-3725. PROVIDE CARPET OR TILE FLANGE TO MATCH FLOOR FINISH.</p> <p>54. FLUSH FLOOR TELEPHONE OUTLETS SHALL BE HUBBELL #B-2529 WITH BRASS COVER #S-2725. PROVIDE CARPET OR TILE FLANGE TO MATCH FLOOR FINISH.</p> <p>55. RECESSED LIGHT FIXTURES INSTALLED IN GYP. BOARD OR PLASTER CEILINGS SHALL HAVE PLASTER FRAMES INSTALLED PRIOR TO CEILING MATERIAL.</p> <p>56. RECESSED FIXTURES INSTALLED INDOORS SHALL BE THERMALLY PROTECTED.</p> <p>57. FIXTURES RECESSED IN "T-BAR" U.L. FIRE RATED CEILING ASSEMBLIES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SYSTEM. WITH TWO #12 HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY-FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH FLEXIBLE U.L. APPROVED ASSEMBLY.</p> <p>58. CONDUITS PENETRATING THRU ROOF SHALL HAVE FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT.</p> <p>59. PROVIDE A GREEN GROUND CONDUCTOR AND METAL RACEWAY IN ALL BRANCH CIRCUITS FEEDING OUTLETS IN MEDICAL EXAM ROOMS & PATIENT CARE ROOMS AS PER 2017 NEC 517.13. PROVIDE EMT METAL RACEWAY OR HEALTH CARE RATED MC CABLE AS PER 2017 NEC 517.13.</p> <p>60. AN ISOLATED GROUND RECEPTACLE SHALL NOT BE INSTALLED WITHIN A PATIENT CARE VICINITY AS PER 2017 NEC 517.16</p> <p>61. AUTOMATIC LIGHTING CONTROL DEVICES SHALL COMPLY WITH NFPA 101: 7.8.1.2.2 (1) THROUGH (7).</p> <p>62. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL CONTROL DEVICES (OCCUPANCY/VACANCY SENSORS) WITH THE CORRECT CIRCUIT. ACCORDING TO CIRCUIT PANEL DESIGN FOR MAINTENANCE AS REQUIRED BY NEC 408.4.</p> <p>63. ADDITIONAL NOTES FOR NEW PANELBOARDS: A. PROVIDE LIGHTING AND RECEPTACLE PANELS AS INDICATED ON THE PLANS AND AS SPECIFIED HEREIN. ALL PANELS SHALL BE DEAD FRONT, CIRCUIT BREAKER TYPE, AND SHALL BEAR THE U.L. LABEL AS WELL AS MEET ALL APPLICABLE NEMA REQUIREMENTS. B. UNLESS OTHERWISE NOTED, TOP OF PANELS SHALL BE MOUNTED 6'-0" A.F.F. C. ALL PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES MOUNTED INSIDE OF DOOR. D. PANELS SHALL BE SUITABLE FOR THE SERVICE RATING AND THE A.I.C. RATING INDICATED ON THE PANEL SCHEDULES. E. ALL BREAKERS SHALL BE FULL SPACE, INDIVIDUAL FRAME TYPE, BOLT-ON E, TYPE. NO "PIGGY-BACK" OR TANDEM BREAKERS WILL BE PERMITTED F. CONTRACTOR SHALL PROVIDE ON ALL FLUSH (RECESSED) MOUNTED PANELS TWO (2) SPARE 2" CONDUITS STUBBED INTO THE CEILING SPACE. G. ALL CURRENT CARRYING BUS BARS SHALL BE COPPER.</p>
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ELECTRICAL SYMBOL LIST

<p>S WALL SWITCH - 1 POLE - 125V - 20 AMP. MOUNT 48" A.F.F. 42" A.F.F. @ COUNTERTOPS OR AS NOTED. QUIET TYPE.</p> <p>S₃ WALL SWITCH - 3 WAY - 125V - 20 AMP. MOUNT 48" A.F.F. OR AS NOTED</p> <p>S_D DIMMER SWITCH - 125V - 1000W - 20 AMP. MOUNT 48" A.F.F. OR AS NOTED</p> <p>S_M MOTOR RATED "SNAP" SWITCH - 125V - 20 AMP. MOUNT AS NOTED</p> <p>☒ LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 120V-400W-6.7 AMP. MOUNT 48" A.F.F. OR AS NOTED. DUAL TECHNOLOGY</p> <p>☒ LINE VOLTAGE OCCUPANCY SENSOR SWITCH - 125V-400W-6 AMP. CEILING MOUNT OR AS NOTED. DUAL TECHNOLOGY</p> <p>☒ HOSPITAL GRADE DUPLEX RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. @ COUNTERTOPS OR AS NOTED</p> <p>☒ HOSPITAL GRADE QUAD RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, MOUNT 15" A.F.F. (STANDARD), 42" A.F.F. @ COUNTERTOPS OR AS NOTED</p> <p>GFI ☒ DUPLEX RECEPTACLE ON GROUND FAULT INTERRUPTER CIRCUIT. 125V - 20 AMP - NEMA 5-20R</p> <p>☒ HOSPITAL GRADE DUPLEX RECEPTACLE - 125V - 20 AMP - NEMA 5-20R, CEILING MOUNTED.</p> <p>○ JUNCTION BOX MOUNTED ABOVE CEILING.</p> <p>⊙ JUNCTION BOX RECESS OR MOUNTED IN WALL.</p> <p>TV TELEVISION OUTLET MOUNT 15" A.F.F. OR AS NOTED. PROVIDE CONDUIT IN WALL STUBBED UP 6" INTO CEILING CAVITY. COORDINATE EXACT SIZE OF J-BOX AND CONDUIT WITH CABLING CONTRACTOR.</p> <p>▶ ETHERNET OUTLET. MOUNT 15" A.F.F. OR AS NOTED. PROVIDE CONDUIT IN WALL STUBBED UP 6" INTO CEILING CAVITY. COORDINATE EXACT SIZE OF J-BOX AND CONDUIT WITH CABLING CONTRACTOR.</p> <p>Ⓢ EXHAUST FAN - FRACTIONAL HORSEPOWER.</p> <p>Ⓢ MOTOR - NUMBER DENOTES HORSEPOWER.</p> <p>▨ PANELBOARD</p> <p>3P NF 30 NON-FUSED DISCONNECT SWITCH.</p> <p>3P 20 30 FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER ENCLOSURE.</p> <p>☐ PUSH BUTTON</p> <p>N NURSE CALL -STAFF ASSIST/ CODE BLUE STATION. SEE DRAWINGS FOR ADDITIONAL DETAILS.</p> <p>Ⓢ NURSE CALL -CORRIDOR DOME LIGHT. SEE DRAWINGS FOR ADDITIONAL DETAILS.</p>	<p>W.P. WEATHERPROOF</p> <p>I.G. ISOLATED GROUND</p> <p>N.L. NIGHT LIGHT</p> <p>EM. EMERGENCY</p> <p>E OR EX EXISTING</p> <p>N. NEW</p> <p>Ⓢ EMERGENCY POWER OFF (EPO) BUTTON</p> <p>⊗ X-RAY "IN USE" LIGHT</p> <p>☒ DOOR SAFETY SWITCH</p> <p>○ RECESSED LED DOWNLIGHT, SEE LUMINAIRE LIST.</p> <p>□ Z x 4' LED LAY-IN TROFFER, SEE LUMINAIRE LIST.</p> <p>Ⓢ EMERGENCY BATTERY PACK WITH LAMPS, SEE LUMINAIRE LIST.</p> <p>□ EXISTING Z x 4' LAY-IN TROFFER.</p> <p>— ELECTRICAL CONDUIT CONCEALED IN WALLS OR IN CONCRETE</p> <p>— ELECTRICAL CONDUIT UNDERGROUND</p> <p>— ELECTRICAL CONTROL WIRING</p> <p>— ELECTRICAL WIRE HOME-RUN, 1ST HASH MARK REPRESENTS THE HOT, SECOND HASH MARK WITH A DOT REPRESENTS THE NEUTRAL, ARC WIRE MARK REPRESENTS THE GROUND</p> <p>— ELECTRICAL MULTI-WIRE HOME-RUN, HASH MARKS WITHOUT DOT REPRESENTS THE NUMBER OF HOTS, HASH MARK WITH A DOT REPRESENTS THE NEUTRAL, ARC WIRE MARK REPRESENTS THE GROUND, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS</p> <p>— ELECTRICAL WIRE HOME-RUN, HASH MARKS WITHOUT DOT REPRESENTS THE NUMBER OF HOTS, ARC WIRE MARK REPRESENTS THE GROUND</p>
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ELECTRICAL DRAWING LIST	
DRAWING NUMBER	DRAWING NAME
E01	ELECTRICAL NOTES, LEGEND AND SCHEDULES
E11	ELECTRICAL PLAN
E21	ELECTRICAL RISER AND PANEL SCHEDULES
E31	ELECTRICAL DETAILS

NOTE

THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

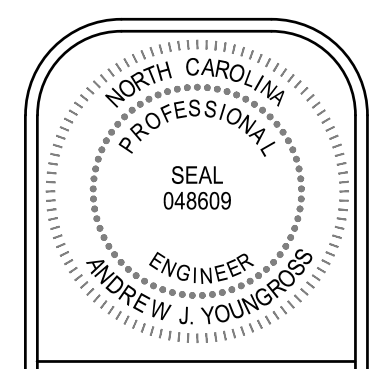
ANDREW J YOUNGROSS, P.E.
2522 S.E. COLUSA AVE.
PORT ST. LUCIE, FLORIDA

HYAC PLUMBING ELECTRICAL

TEL: 561-900-2447
FAX: 561-274-0222
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C.D. HAIR ARCHITECT
2250 Vista Parkway
West Palm Beach, FL
15034

revision:



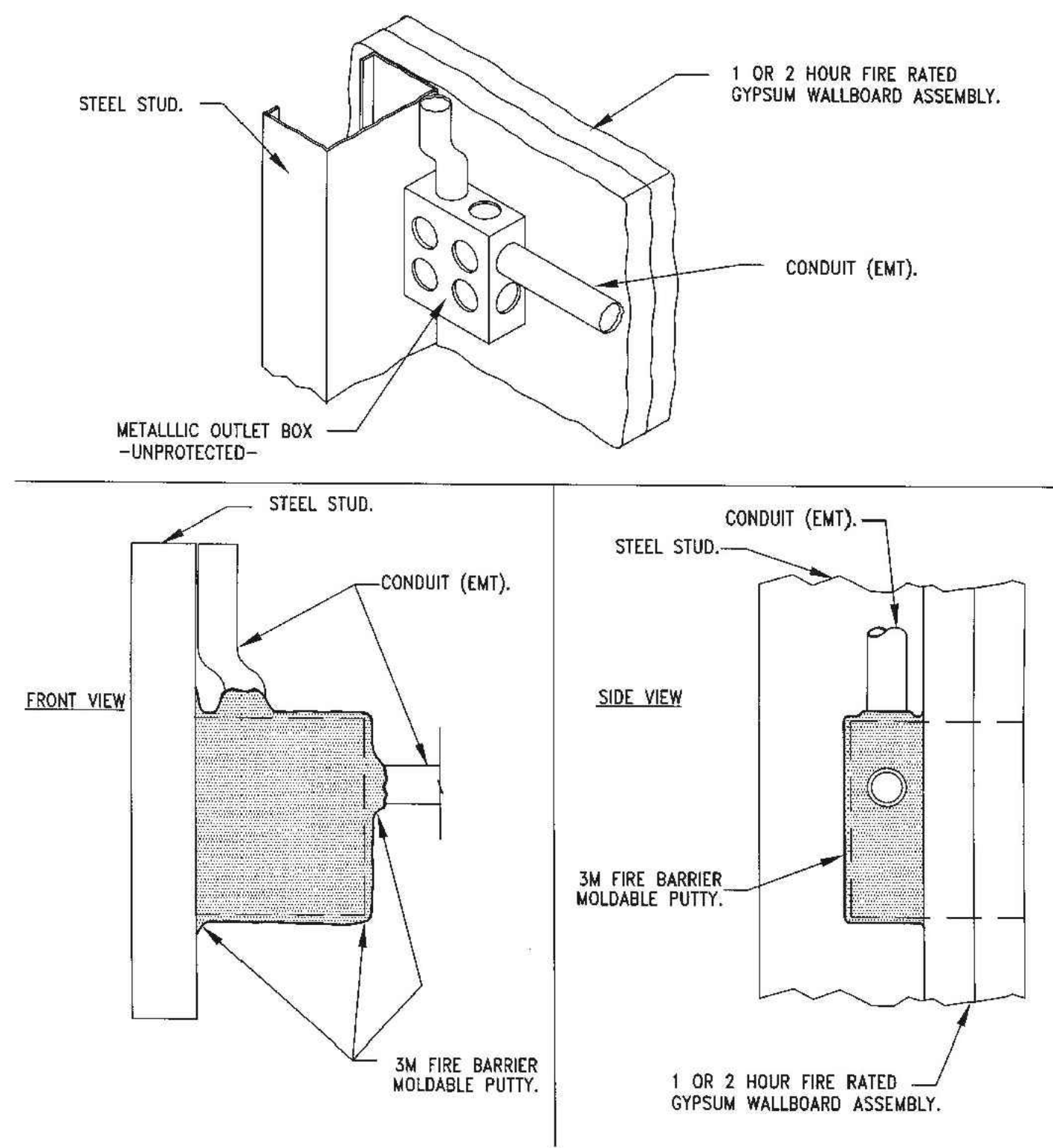
An Interior Renovation for:
Harnett Health Central Sterile Renovation
215 Brightwater Drive
Lillington, North Carolina

job no. 24-029/25157
principal: AJY
designer: RR/HL/KS
file name:
date: 09.26.25
title:
ELECTRICAL NOTES, LEGEND, AND SCHEDULES

EO.1

4 E

Suggested Installation for 3M™ Fire Barrier Moldable Putty+ on Electrical Outlet Boxes



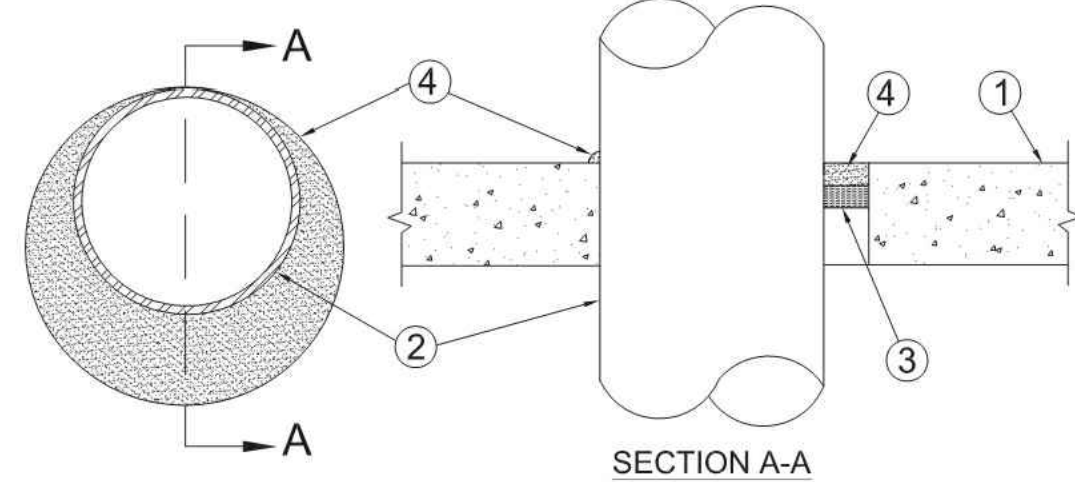
3M Fire Protection Products
www.3m.com/firestop

CLIV • 1 of 2

Product Support Line
1-800-328-1687

System No. C-AJ-1001

March 05, 2007
F Rating - 3 Hr
T Rating - 0 Hr
W Rating - Class 1 (See Item 4)



- Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of circular through opening is 32-1/2 in. (826 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Steel Sleeve** (Optional, not shown) - Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with or project max 2 in. (51 mm) from top surface of floor or from both surfaces of wall. As an alternate, nom 12 in. (305 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grafted into floor or wall assembly flush with floor or wall surfaces.
- Through Penetrant** - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm, point contact) to max 1-3/8 in. (35 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe** - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
 - Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
 - Conduit** - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
- Packing Material** - Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed ceramic (alumina silica) fiber blanket, mineral wool batt or glass fiber insulation material used as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of solid concrete or concrete block wall as required to accommodate the required thickness of caulk fill material (Item 4). As an alternate when max pipe size is 10 in. (254 mm) diam and when max annular space is 1 in. (25 mm), a min 1 in. (25 mm) thickness of tightly-packed ceramic fiber blanket or mineral wool batt packing material may be recessed min 1/2 in. (13 mm) from bottom surface of floor or from either side of solid concrete wall.
- Fill, Void or Cavity Materials** - **Caulk or Sealant** - Applied to fill the annular space to the min thickness shown in the following table:

Max Pipe Diam In. (mm)	Max Annular Space In. (mm)	Packing Mat Type (a)	Min Caulk Thickness In. (mm)
10 (254)	1 (25)	BR, CF, GF or MW	1/2 (13)(b)
10 (254)	1 (25)	CF or MW	1/2 (13)(c)
30 (762)	2-1/2 (64)	BR, CF, GF or MW	1 (25)(b)

- (a) BR = Polyethylene backer rod.
CF = Ceramic fiber blanket.
GF = Glass fiber insulation.
MW = Mineral wool batt.
- (b) Caulk installed flush with top surface of floor or both surfaces of wall.
(c) Caulk installed flush with bottom surface of floor or one surface of solid (non-concrete block) wall.
- 3M COMPANY** - CP 25WB+ or FB-3000 WT
(Note: W Rating applies only when FB-3000 WT is used on top surface of floor and when it laps onto concrete for sleeved opening.)
- *Bearing the UL Classification Marking

This material was extracted and drawn by 3M Fire Protection Products from the 2007 edition of the UL Fire Resistance Directory. ©UL US

3M Fire Protection Products
www.3m.com/firestop

C-AJ-1001 • 1 of 1

Product Support Line: 1-800-328-1687
Choose option 4 for FAX ON DEMAND

Through Penetrations

Metallic Pipes

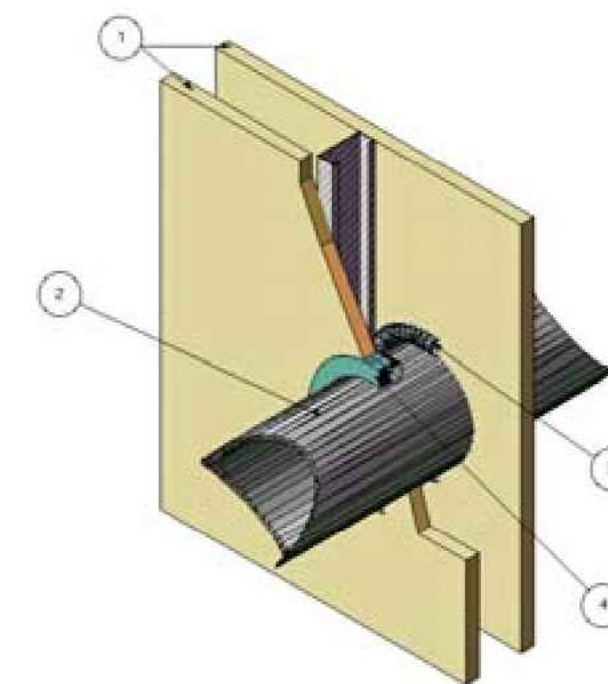
1000 Series

Concrete

CAJ

Design No. FS 118 W

August 1, 2003
FIRE PENETRATION SEAL (Mechanical)
Penetrating Item Type A
T-Rating - 0 hr
F-Rating - 2 hr



- GYPSUM WALL ASSEMBLY:** Max. opening for penetrating item in gypsum wallboard layers is to be 1-1/2 in. larger in diameter than the outside of the penetrating item. Two hour fire-rated wall assembly shall include one of the following features:
 - Min. 25 GA galvanized steel studs spaced 24 in. o.c. measuring 3-1/2 in. wide with 1-1/4-in. legs. Studs attached with min. #6 x 3/8-in. steel stud framing screws to channel shaped floor and ceiling runners measuring 1/2-in. deep by 3-1/2-in wide, which are secured to floor and ceiling with 1-in. concrete fasteners spaced max. 18-in. o.c. Studs and runners covered with two layers of 5/8 in. thick, Type X gypsum wallboard on each face. The base layer of gypsum wallboard fastened to steel studs with #6 1-1/8 in. bugle head phillips drywall screws spaced 8 in. o.c. The face layer of gypsum wallboard fastened with #6 1-5/8 in. bugle head phillips drywall screws spaced 8 in. o.c. Joint Tape and Compound - Vinyl or premixed joint compound applied to face layers of gypsum wallboard in two coats to all exposed screw heads and gypsum wallboard joints. A min. 2-in. wide paper, plastic or fiberglass tape embedded in first layer of compound over joints in gypsum wallboard.
 - Wood studs are to consist of min. nom. 2 x 4 lumber max. spaced 16 in. o.c. Studs attached with min. 16d common nails to 2 x 4 lumber floor and ceiling runners measuring, which are secured to floor and ceiling with 3-in. concrete fasteners spaced max. 18-in. o.c. Studs and runners covered with two layers of 5/8 in. thick, Type X gypsum wallboard on each face. The base layer of gypsum wallboard fastened to wood studs with #6 1-1/8 in. bugle head phillips drywall screws spaced 12 in. o.c. The face layer of gypsum wallboard fastened with #6 1-5/8 in. bugle head phillips drywall screws spaced 8 in. o.c. Joint Tape and Compound - vinyl or casein, dry or premixed joint compound applied to face layers of gypsum wallboard in two coats to all exposed screw heads and gypsum wallboard of compound over joints in gypsum wallboard.
- PENETRATING ITEM:** One metallic pipe, conduit or tubing to be installed concentrically within the through opening. The penetrating item is to be rigidly supported on both sides of the wall assembly. An annular space of 3/4 in. is required within the fire stop system. The following types and sizes of metallic pipes, conduit or tubing may be used:
 - Steel Pipe: Schedule 10 (or heavier) nom. 12 in. diameter (or smaller) steel pipe.
 - Conduit: Nom. 6 in. diameter (or smaller) steel conduit.
 - Conduit: Nom. 4 in. diameter (or smaller) electrical metallic tubing.
 - Copper Tubing: Type L (or heavier) nom. 6 in. diameter (or smaller) copper tubing.
 - Copper Pipe: Nom. 6 in. diameter (or smaller) Regular (or heavier) copper pipe.
- FORMING MATERIAL:** Nom. 1 in. diameter polyethylene backer rod, tightly and permanently friction fit into opening. The forming material is to be recessed from both surfaces of the wall assembly, as required to accommodate the necessary depth of sealant fill material (Item 4).
- FILL, VOID OR CAVITY MATERIAL:** Min. of 5/8 in. thickness of sealant fill material is to be applied within the annulus on both faces of the wall through-penetration.

Listed Manufacturer:
3M
Firestopping
Firestopping Sealant
3M Fire Barrier™ 2000+ Silicone Joint Sealant

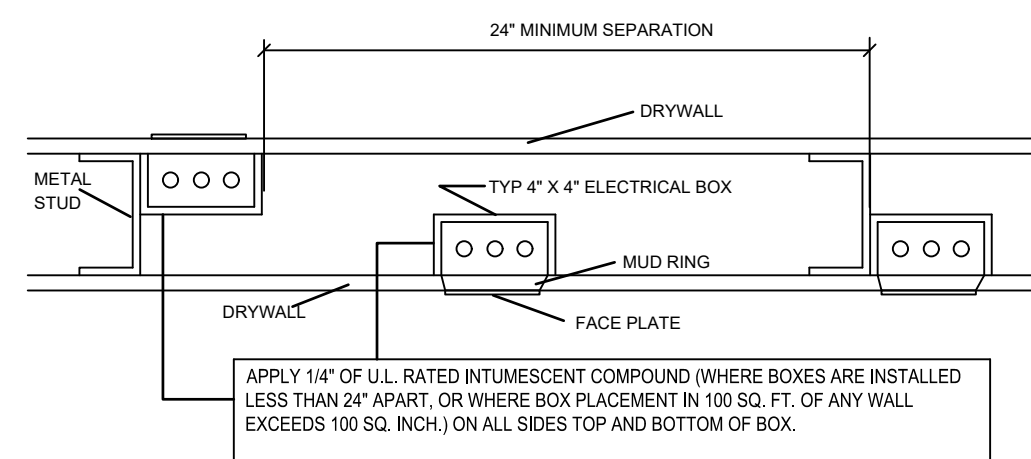
This material was extracted and drawn by 3M Fire Protection Products from the 2006 Product Directory, Intertek/Omega Point Laboratories Inc.®

Protective Wraps

Joint Sealant

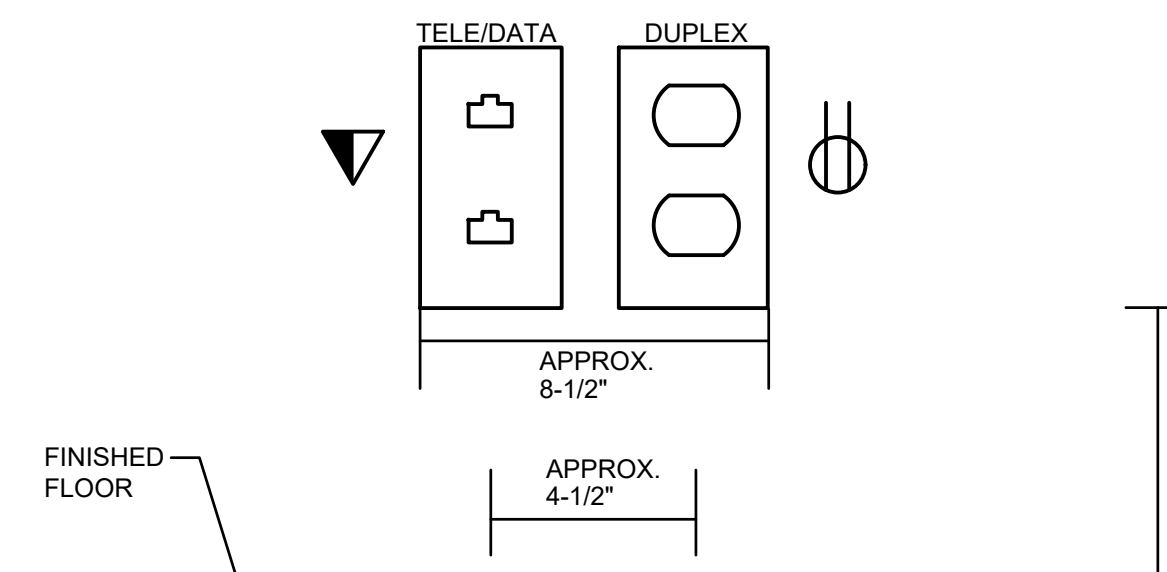
Through Penetration - Gypsum

FS



BACK TO BACK ELECT. BOX MOUNTING DETAIL FOR RATED WALLS

NOT TO SCALE



- NOTES:**
- LAYOUT MAY BE INVERTED TO SHOW FROM LEFT TO RIGHT.
 - TELE/DATA FACEPLATE CONFIGURATION SPECIFIED BY OWNERS CABLING VENDOR.
 - DUPLEX SHALL BE TREATED AS A STANDARD ELECTRICAL 1900 BOX.
 - BACK TO BACK EDS APPLICATIONS IN STANDARD WALLS REQUIRE AN OFFSET INSTALLATION WITH 24\"/>

TYPICAL OFFICE WALL TELE/DATA/POWER LAYOUT DETAIL
N.T.S.

NOTE

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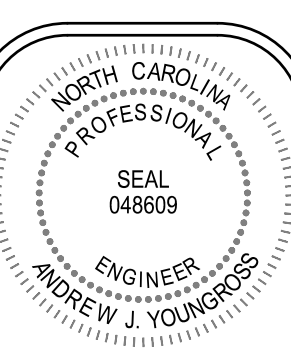
ANDREW J YOUNGROSS, P.E.
2522 S.E. COLUSA AVE.
PORT ST. LUCIE, FLORIDA

HVAC
PLUMBING
ELECTRICAL

TEL: 561-900-2447
FAX: 561-274-0222
E-MAIL: andrew@ecfla.com



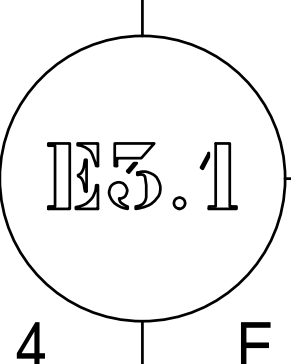
revision:



An Interior Renovation for:
Harnett Health Central Sterile Renovation
215 Brighthwater Drive
Lillington, North Carolina

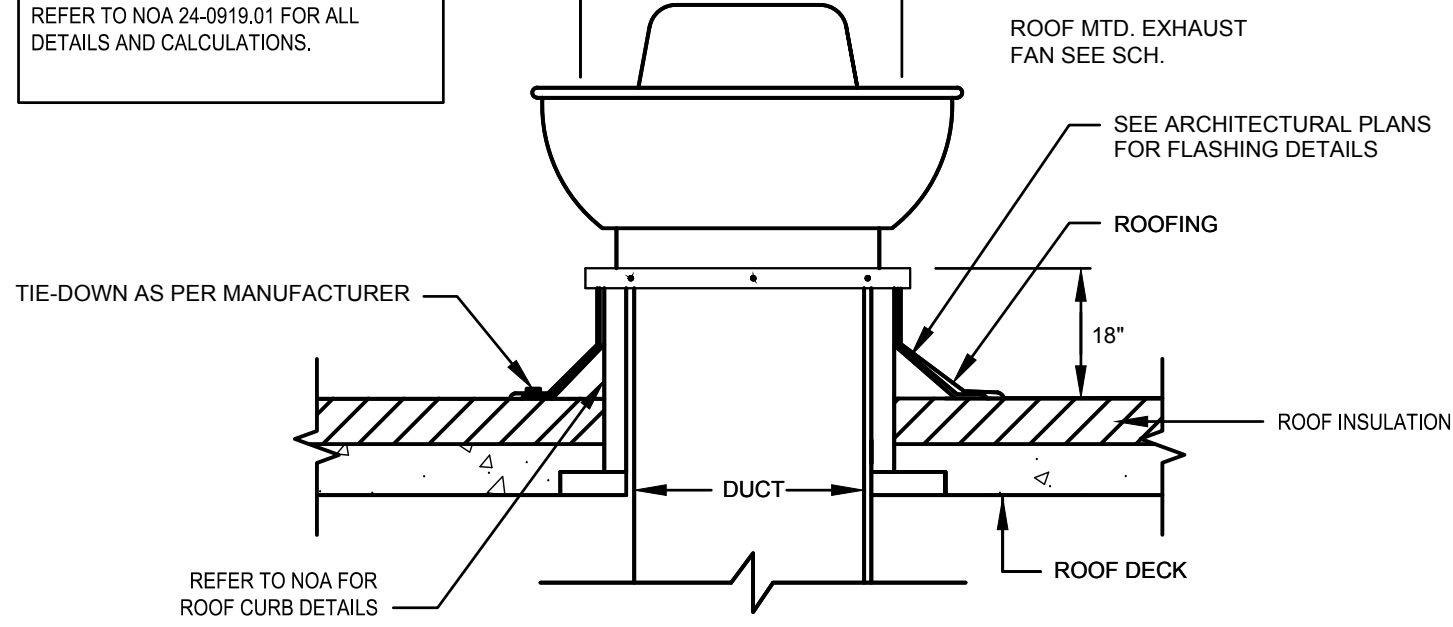
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designer: RR/HL/KS
file name:

date: 09.26.25
title: ELECTRICAL DETAILS

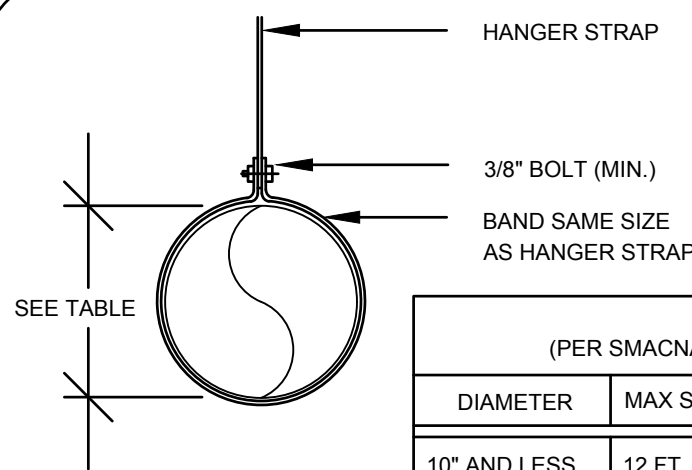


4 E

NOTE:
ALL ATTACHMENTS SHALL BE COMPLIANT TO 2024 NCMC AND ASCE 7-10.
REFER TO NOA 24-0919.01 FOR ALL DETAILS AND CALCULATIONS.



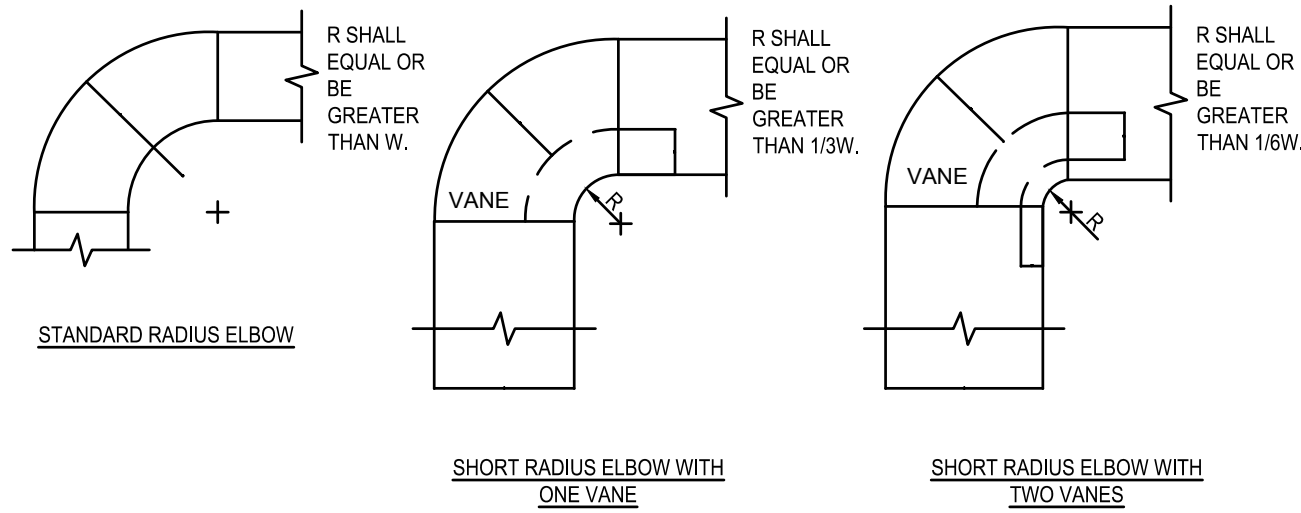
EXHAUST FAN DETAIL ROOFTOP MOUNTED
N.T.S



HANGER SIZES FOR ROUND DUCTS (PER SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARDS)				
DIAMETER	MAX SPACING	WIRE DIAMETER	ROD	STRAP
10" AND LESS	12 FT	ONE 12 GA.	1/4"	1" X 22 GA
11"-18"	12 FT	TWO 12 GA OR ONE 8 GA.	1/4"	1" X 22 GA
19"-24"	12 FT	TWO 10 GA.	1/4"	1" X 22 GA
25"-36"	12 FT	TWO 8 GA.	3/8"	1" X 20 GA
37"-50"	12 FT		TWO 3/8"	TWO 1" X 20 GA.
51"-60"	12 FT		TWO 3/8"	TWO 1" X 18 GA.
61"-84"	12 FT		TWO 3/8"	TWO 1" X 16 GA.
85"-96"	12 FT		TWO 1/2"	TWO 1-1/2" X 16 GA.

NOTES:
- STRAPS ARE GALVANIZED STEEL; RODS ARE UNCOATED OR GALVANIZED STEEL.
- WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL ARE ALTERNATES.
- TABLES ALLOW FOR CONVENTIONAL WALL THICKNESS, AND JOINT SYSTEMS PLUS 1 LB/SQ.FT. INSULATION WEIGHT.
- IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.

METAL ROUND DUCT HANGER DETAIL
N.T.S.



NOTE:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON FLOOR PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

TYPICAL RADIUS ELBOW DETAIL
N.T.S

FAN SCHEDULE		
UNIT DESIGNATION	EF-1	EF-2
MANUFACTURER	GREENHECK	GREENHECK
MODEL	CUE-090-VG	CUE-080-VG
TYPE	UPBLAST ROOF	UPBLAST ROOF
AREA SERVED	CART WASHER	WASHER
CONSTRUCTION	ALUMINUM HOUSING	ALUMINUM HOUSING
DIMENSIONS		
WIDTH (IN.)	210	210
LENGTH (IN.)	210	210
HEIGHT (IN.)	13.375	13.375
OUTLET (IN.)	19x19	19x19
WEIGHT (LB)	30	21
CONDITION OF SERVICE		
CFM	400	200
E.S.P. (IN. W.G.)	0.5	0.5
RPM (MAX)	1,925	1,725
SONES	9	7.6
FAN MOTOR		
DRIVE	DIRECT	DIRECT
HP (AMPS OR WATTS)	0.12 HP	0.07 HP
VOLTAGE/PHASE	115/1/0	115/1/0
CYCLE (HZ)	60	60
MOTOR SPEEDS	VARIABLE	VARIABLE
TYPE OF MOTOR	VARI-GREEN	VARI-GREEN
SPECIAL FEATURES		
BIRD SCREEN	-	-
MATERIAL (A/FIBR./GL./STEEL)	AI	AI
BACKDRAFT DAMPER	YES	YES
BUILT IN DISCONNECT	YES	YES
FAN CONTROL		
CONTINUOUS	NO	NO
OCCUPANCY SENSOR	-	-
WALL TIMER SWITCH	-	-
WALL TOGGLE SWITCH	-	-
TEMPERATURE	-	-
OTHER (SEE NOTES)	-	-
NOTES	1	2

NOTES:
1. FAN TO BE INTERLOCKED WITH CART WASHER OPERATION.
2. FAN TO BE INTERLOCKED WITH WASHER OPERATION.
3. PROVIDE AND INSTALL PREFABRICATED ROOF CURB CLEAR HEIGHT FROM TOP OF CURB AND FINISHED ROOF TO BE 18 INCHES. INTERIOR OF CURB SHALL BE INSULATED AS PER ROOF INSULATION SPECS. COORDINATE EXACT LOCATION OF CURB AND ROOF OPENING WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
C.F.M.	CUBIC FEET PER MINUTE
FD (E)	EXISTING FIRE DAMPER W/ ACCESS PANEL
FSD (E)	EXISTING FIRE SMOKE DAMPER W/ ACCESS PANEL
A	A = DIFFUSER TYPE, CFM = DIFFUSER AIR FLOW
[Symbol]	DUCTWORK - SEE SPECS
[Symbol]	EXISTING DUCTWORK - TO REMAIN
[Symbol]	EXISTING SUPPLY DIFFUSER
[Symbol]	EXISTING EXHAUST DIFFUSER

HVAC DESIGN REQUIREMENTS

	YES	NO
DUCT SMOKE DETECTOR		✓
FIRE DAMPERS	✓	
SMOKE DAMPER(S)	✓	
FIRE RATED ENCLOSURE		✓
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY		✓
FIRE STOPPING		✓
SMOKE CONTROL		✓

GENERAL DUCTWORK NOTES	
1.	ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
2.	DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD AND DETAILS ON THESE PLANS.
3.	ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS AS INDICATED ON PLANS. PROVIDE BALANCING DAMPERS WITH EXTRACTOR FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS TO ENSURE COMPLIANCE WITH NCMC - 2024 SEC. 603.18 AND NCMC - 2024 SEC. 601.5 FOR BALANCED RETURN TRANSFER AIR FLOW. REMOTE CABLE OPERATED DAMPERS SHALL BE PROVIDED IN INACCESSIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR OR EQUAL".
4.	ALL DAMPER CONTROLS SHALL BE ACCESSIBLE.
5.	ALL OUTSIDE AIR DUCTS OR INTAKES SHALL HAVE DAMPERS.
6.	ALL PENETRATIONS OF REQUIRED FIRE RATED WALLS, SLABS AND CEILINGS SHALL BE WITH AN ACCESSIBLE U.L. LABELED FIRE DAMPER OR WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S LISTED DETAILS AND SPECS.
7.	ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL VOLUME DAMPERS. PROVIDE RADIUS ELBOWS WHERE FEASIBLE. SQUARE ELBOWS AND TEES SHALL BE FURNISHED W/SINGLE FOIL TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE-OFFS. PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS IN INACCESSIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR" OR EQUAL.
8.	ALL OUTSIDE AIR DUCTS OR INTAKES SHALL HAVE DAMPERS. BOTH OUTDOOR AIR SUPPLY AND EXHAUST SYSTEMS SHALL BE EQUIPPED WITH DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. VENTILATION OUTSIDE AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING WARMUP, COOLDOWN, AND SETBACK, EXCEPT WHEN VENTILATION REDUCES ENERGY COSTS (E.G. NIGHT PURGE) OR WHEN VENTILATION MUST BE SUPPLIED TO MEET CODE REQUIREMENTS. MOTORIZED DAMPERS SHALL BE NOT LESS THAN A CLASS 1 LEAKAGE-RATED DAMPER WITH A MAXIMUM LEAKAGE RATE OF 4 CFM PER S.F. AT 1" W.G. WHEN TESTED IN ACCORDANCE WITH AMCA 500D.
9.	SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS, WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM OF VAV BOXES. ALL DUCTWORK SHALL BE SEALED TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR ITS PRESSURE CLASS SEALING METHODS.
10.	ALL INSULATION SHALL HAVE FIRE/SMOKE RATING LESS THAN 2550.

DUCTWORK SPECIFICATIONS

1. ALL EXHAUST DUCTWORK SHALL BE 16 GAGE STAINLESS STEEL OR 16 GAGE GALVANIZED STEEL LIQUID TIGHT WELDED. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS.

AIR DISTRIBUTION SCHEDULE

TYPE	MFG	MODEL	PATTERN	DAMPER	MOUNTING	NECK	MODULE	MAX N.C.	MAX CFM	NOTES
A1	SEE NOTE 2	SEE NOTE 2	SUPPLY	O.B.D.	SURFACE	SEE PLANS	24x24	25	-	2
E1	SEE NOTE 2	SEE NOTE 2	EXHAUST	O.B.D.	SURFACE	SEE PLANS	24x24	25	-	2
EX1	EXISTING	EXISTING	SUPPLY	EXISTING	SURFACE	EXISTING	24x24	25	-	1
EX2	EXISTING	EXISTING	EXHAUST	EXISTING	EXISTING	EXISTING	24x24	25	-	1

NOTES:
1) EXISTING DIFFUSER TO REMAIN.
2) NEW DIFFUSER TO MATCH EXISTING SPEC.

BUILDING ENVELOPE

TYPE	DESCRIPTION	R-VALUE (ADDED VALUE)	SUMMER U-VALUE (ASSEMBLY)	SHADING COEFFICIENT	SOLAR HEAT GAIN COEFFICIENT
ROOF	N/A	N/A	N/A		
WALL	N/A	N/A	N/A		
GROUND SLAB	EXISTING	-	0.100		
GLASS WINDOWS				N/A	N/A
GLASS DOORS				N/A	N/A

NOTES:
THE VALUES SHOWN ABOVE ARE AS PER SPECIFICATIONS GIVEN BY ARCHITECT AND WERE USED TO SIZE THE HVAC EQUIPMENT AND INPUTTED INTO THE ENERGY CALCULATIONS FOR CODE COMPLIANCE UNDER THE PERFORMANCE BASIS METHOD. THE INFORMATION PROVIDED HERE ARE BY NO MEANS TO BE USED AS A SPECIFICATION OF THE BUILDING ENVELOPE. CONSULT ARCHITECTURAL PLANS FOR SUCH. NO CHANGES SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF OWNER, ARCHITECT, AND ENGINEER.

**VENTILATION CALCULATIONS PROPOSED:
AS PER TABLE 7-1, DESIGN PARAMETERS FROM ANSI/ASHRAE/ASHE STANDARD 170-2021**

	ROOM #	SPACE DESIGNATION	AREA:	CEIL HEIGHT:	VOLUME:	PRESSURE RELATIONSHIP TO ADJACENT AREA	MINIMUM SUPPLY FLOW:	SUPPLY AIR FLOW PROVIDED:	MINIMUM TOTAL AIR CHANGES PER HOUR	PROVIDED TOTAL AIR CHANGES PER HOUR	ACCEPTABLE	MINIMUM OUTSIDE AIR	PROVIDED OUTSIDE AIR CHANGES PER HOUR	MINIMUM OUTSIDE AIR	PROVIDED OUTSIDE AIR	ALL ROOM AIR EXHAUSTED DIRECTLY OUTDOORS
			(SF)	(FT)	(CF)	(CFM)	(CFM)	(ACH)	(ACH)	(YES/NO)	(ACH)	(ACH)	(CFM)	(CFM)		
VAV 2-19	1833	DECONTAMINATION	329	9	2961	NEGATIVE	296	295	6	6	YES	2	2	EXISTING	EXISTING	YES
	TOTAL		329		2961			295								
VAV 2-22	1831	CART CASE	213	9	1917	NEGATIVE	192	240	6	8	YES	2	2	EXISTING	EXISTING	YES
	TOTAL		213		0			240								

MECHANICAL DRAWING LIST

DRAWING NUMBER	DRAWING NAME
M01	MECHANICAL NOTES, LEGEND AND SCHEDULES
M10	MECHANICAL PLAN - DEMOLITION
M11	MECHANICAL PLAN
M21	AIR BALANCE SUMMARY - EXISTING AND PROPOSED

NOTE

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C.D. HAIR ARCHITECT
2520 Viera Parkway
Viera, FL 32981
15034

revision:

NORTH CAROLINA PROFESSIONAL SEAL 048609
ENGINEER ANDREW J. YOUNGROSS

An Interior Renovation for:
Harnett Health Central Sterile Renovation
215 Brightwater Drive
Lillington, North Carolina

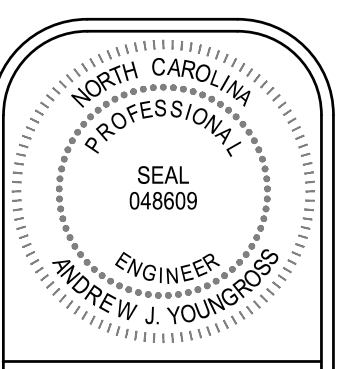
job no. 24-029/25157
principal: AJY
designer: RR/HL/KS
file name:

date: 09.26.25
title:
MIRCHANCAL NOTES, LEGEND, AND SCHEDULES

M0.1
4 M

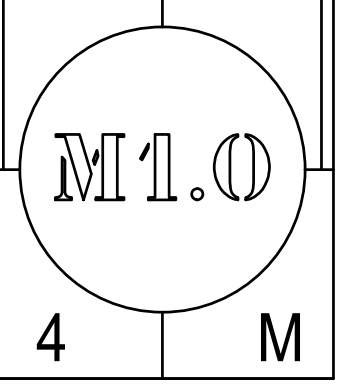
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 34953
 15034

revision:

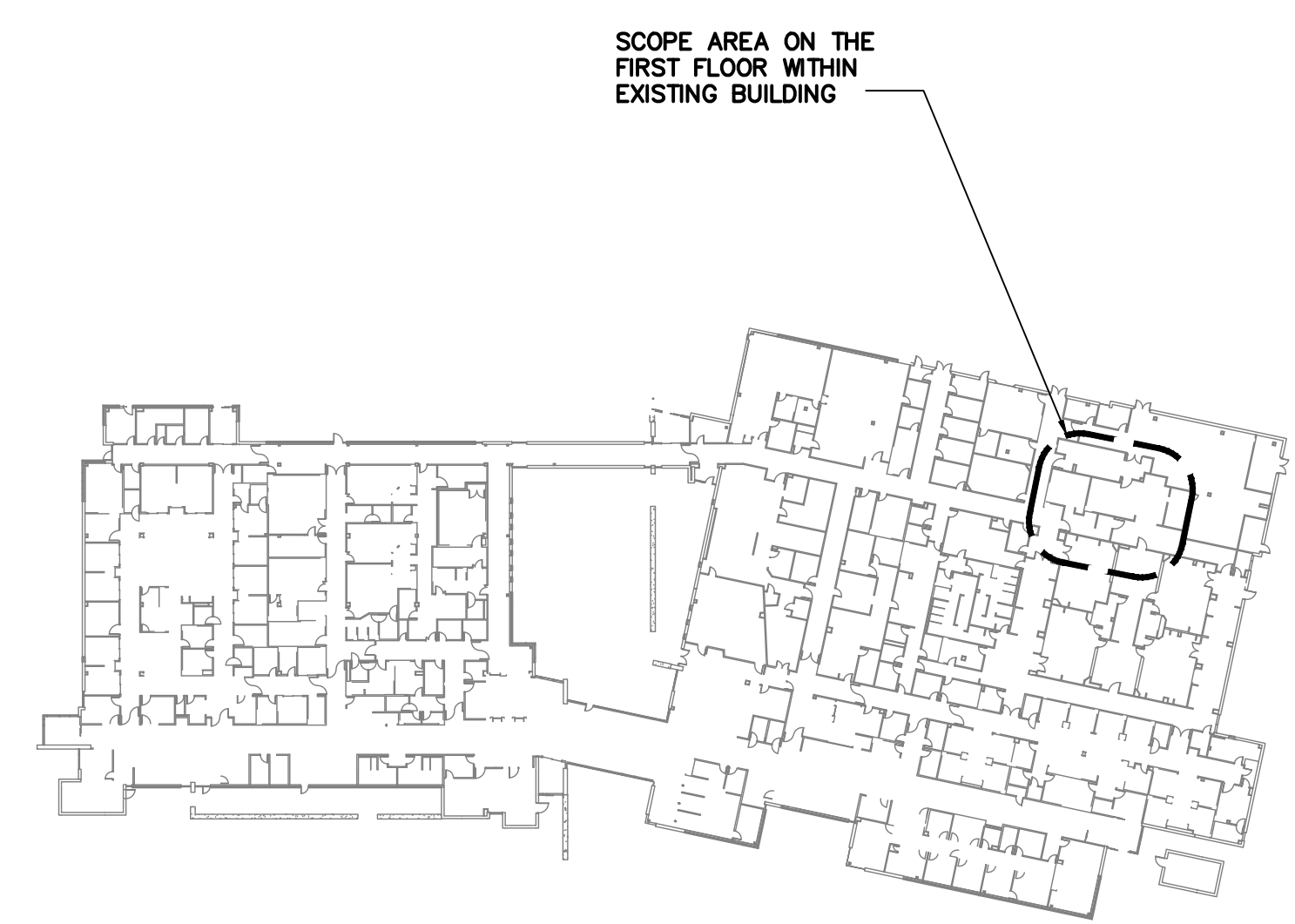
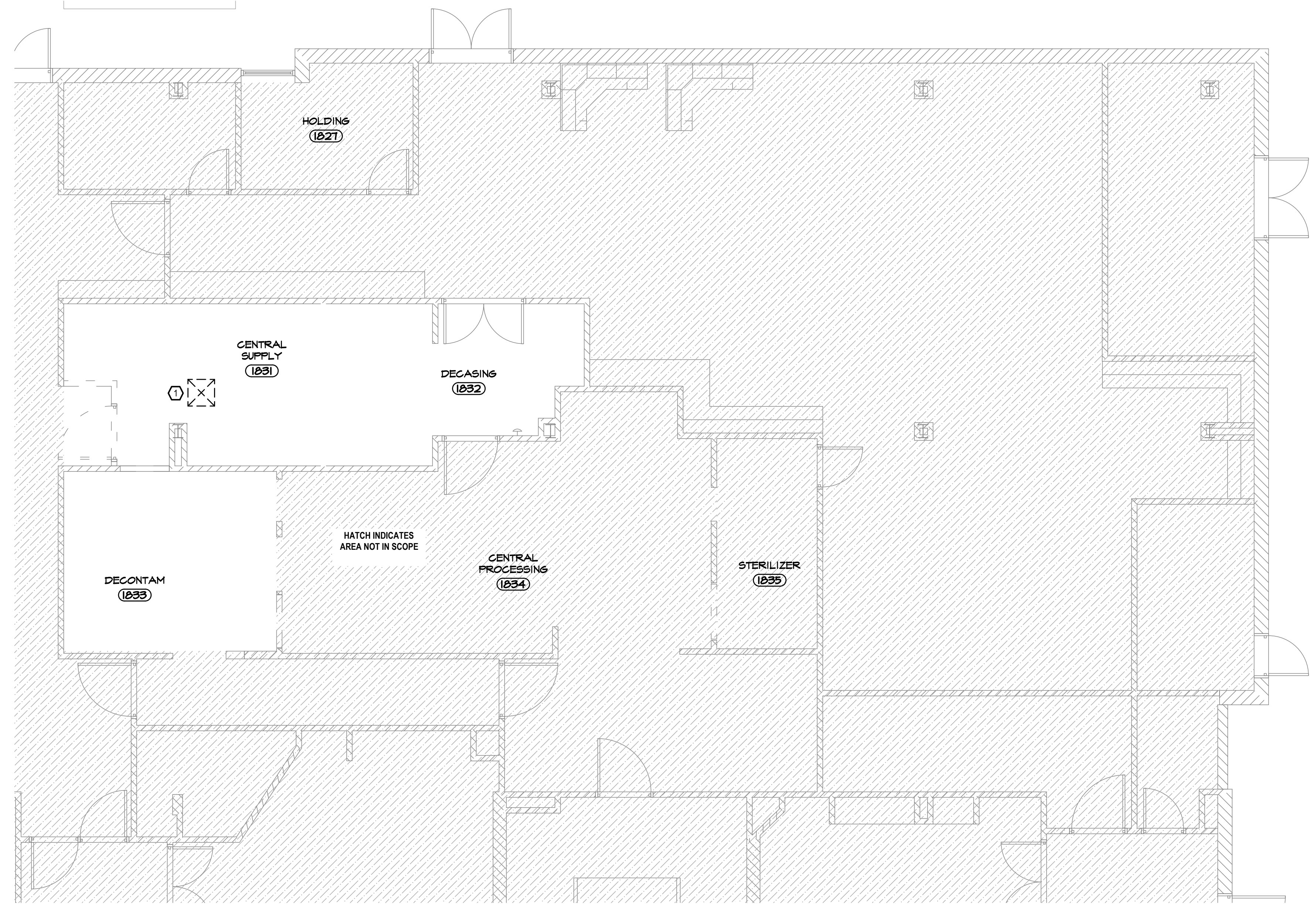


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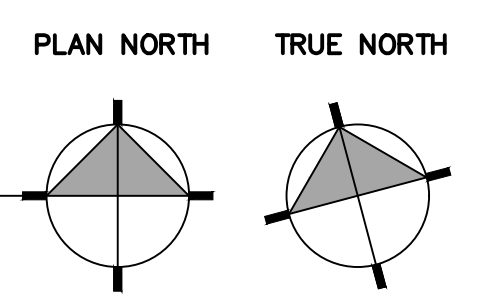
job no. 24-029/25157
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 designer: RR/HL/KS
 file name:
 date: 09.26.25
 title:
MIRCHANCAL
PLAN -
DEMOLITION



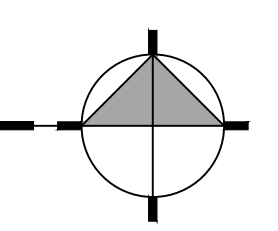
GENERAL NOTES	
EXISTING DUCTWORK AND DIFFUSER LAYOUT IS BASED ON EXISTING PLANS PROVIDED TO THE ENGINEER DATED DECEMBER 03, 2010.	
PLAN KEY NOTES	
⬡	EXISTING SUPPLY DIFFUSER TO BE REMOVED.



MECHANICAL PLAN - DEMOLITION
 3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
 NTS

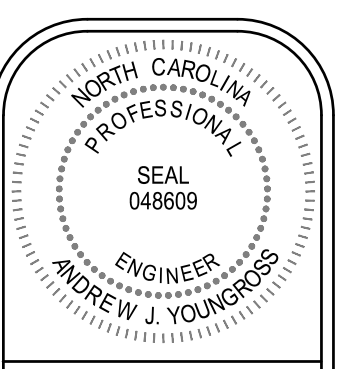


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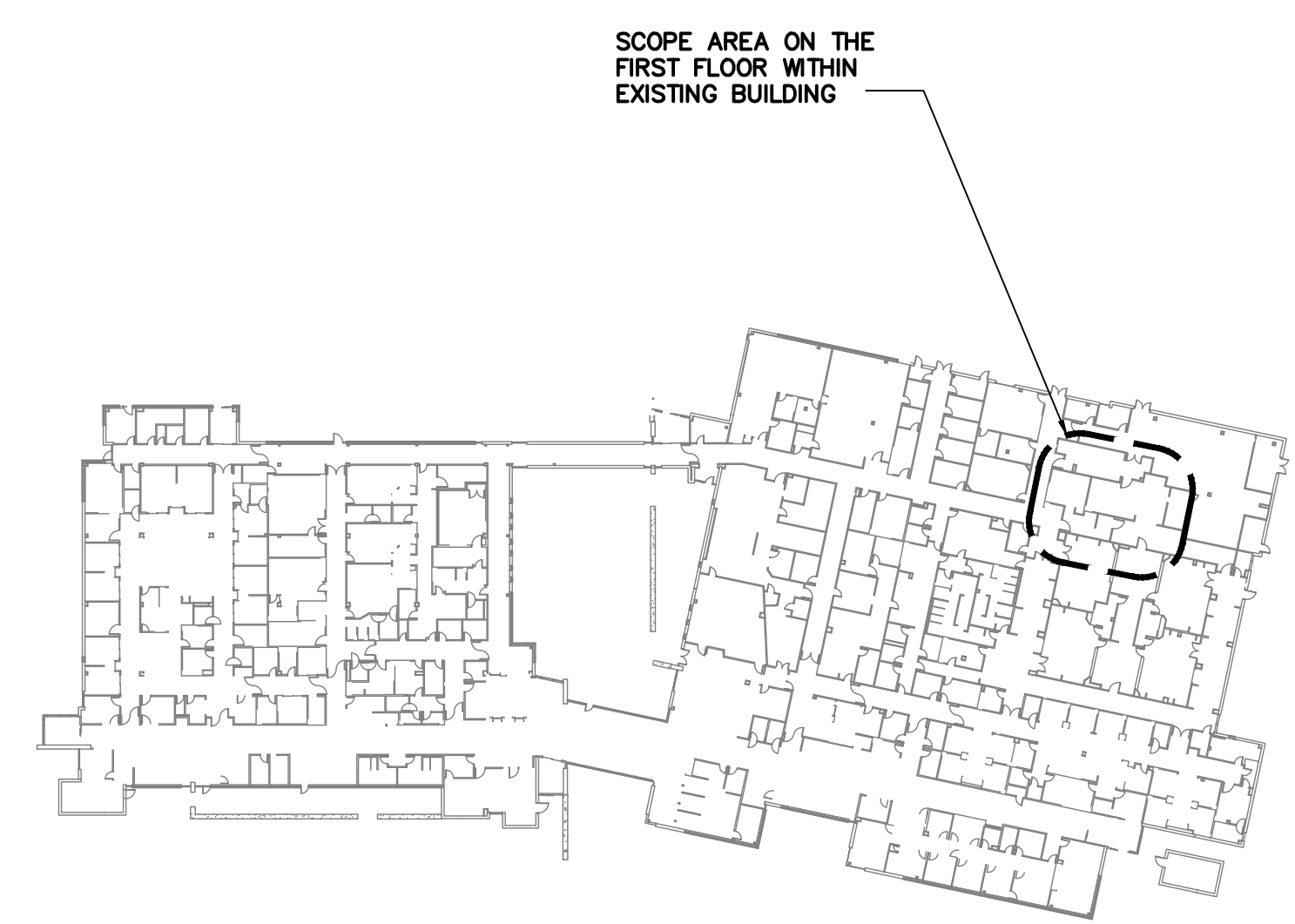
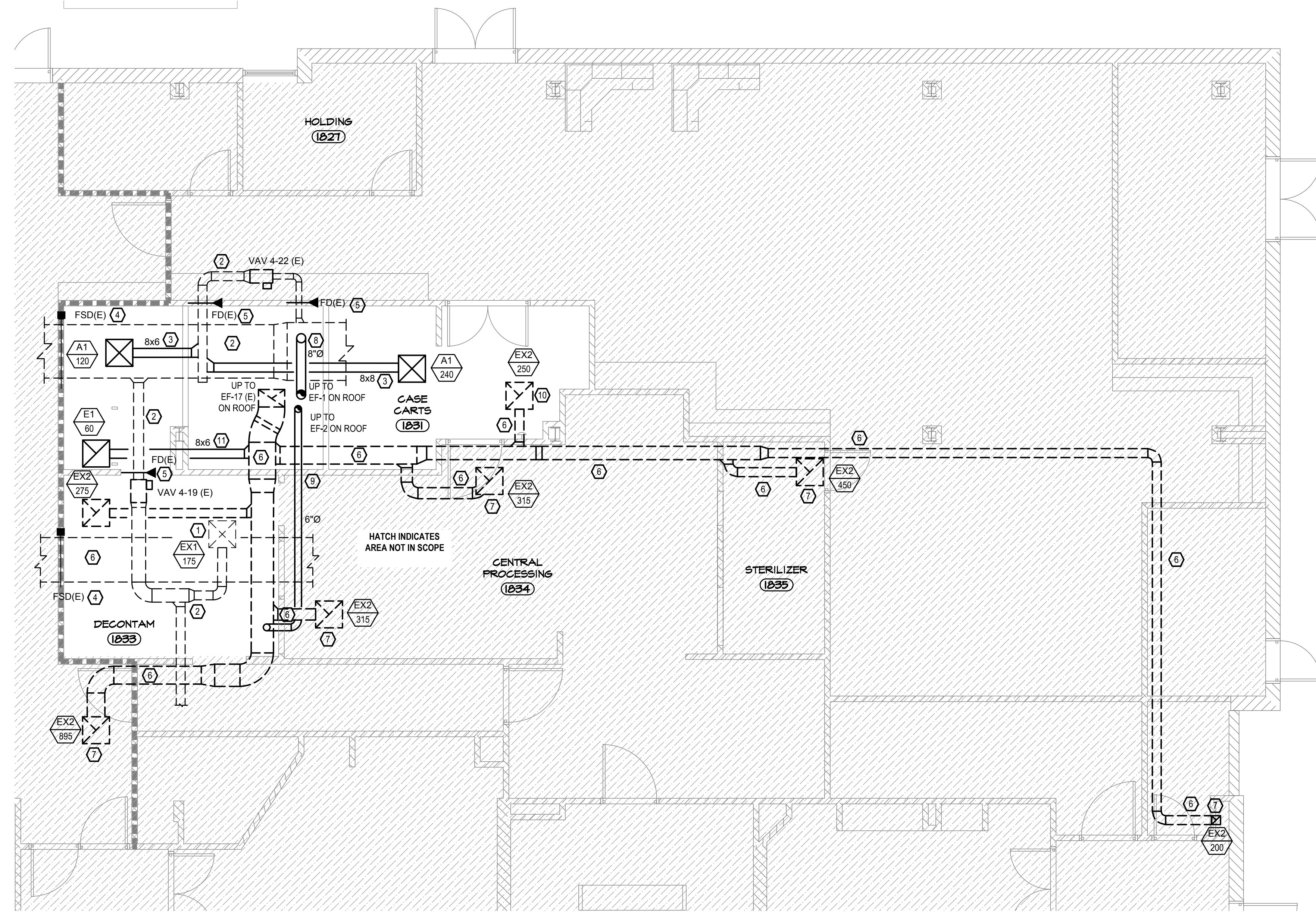
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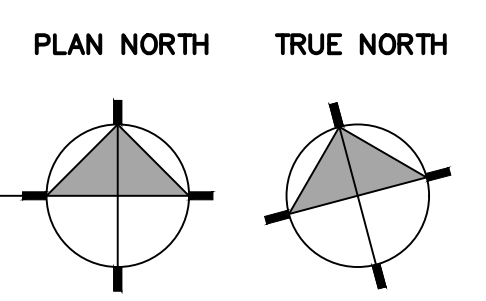
An Interior Renovation for:
**Harnett Health
 Central Sterile Renovation**
 215 Brightwater Drive
 Lillington, North Carolina

job no. 24-029/25157
 principal: AJY
 designer: RR/HL/KS
 file name:
 date: 09.26.25
 title: **MECHANICAL PLAN**

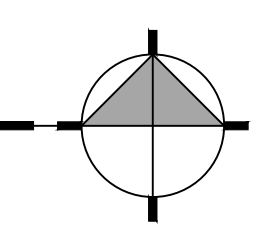
GENERAL NOTES	
A.	IT IS THE RESPONSIBILITY OF THE GENERAL AND MECHANICAL CONTRACTORS TO FULLY INSPECT THE SITE PRIOR TO COMMENCEMENT.
B.	VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATION OF ALL STRUCTURAL ELEMENTS, ROOF TRUSSES, COLUMNS, ETC. AND COORDINATE DUCT LOCATIONS ACCORDINGLY.
C.	SEE ARCHITECTURAL DRAWINGS FOR CEILING ELEVATIONS AND FIXTURE LOCATIONS.
D.	EXISTING DUCTWORK LAYOUT AND DIFFUSER VALUES ARE BASED ON EXISTING PLANS PROVIDED TO THE ENGINEER. NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES BETWEEN THE EXISTING SUPPLY AND EXHAUST DIFFUSER VALUES AND THE ACTUAL SUPPLY AND EXHAUST DIFFUSER VALUES BASED ON THE FINAL TEST AND BALANCE THAT IS TO BE PERFORMED BY CONTRACTOR.
E.	MECHANICAL ENGINEER SCOPE OF WORK WAS TO ADD EXHAUST DUCTWORK AND ROOFTOP EXHAUST FANS TO ACCOMMODATE FOR THE CART WASHER AND ADDITIONAL WASHER.
PLAN KEY NOTES	
①	EXISTING SUPPLY DIFFUSER TO REMAIN AS IS.
②	EXISTING SUPPLY DUCTWORK REMAIN AS IS.
③	CONTRACTOR TO PROVIDE NEW SUPPLY DUCTWORK AND CONNECT TO EXISTING SUPPLY DUCTWORK. DUCTWORK TO MATCH EXISTING SPECIFICATIONS. NEW SUPPLY DIFFUSER TO BE PROVIDED. CONTRACTOR TO COORDINATE FINAL LOCATION IN THE FIELD.
④	EXISTING FSD TO REMAIN AS IS.
⑤	EXISTING FD TO REMAIN AS IS.
⑥	EXISTING DUCTWORK TO REMAIN AS IS.
⑦	EXISTING EXHAUST DIFFUSER REMAIN AS IS.
⑧	8"Ø EXHAUST DUCT FOR CART WASH TO BE ROUTED TO EF-1 ON ROOF. EXHAUST DUCT WORK TO BE WELDED STAINLESS STEEL. CONTRACTOR TO COORDINATE EXACT ROUTING IN THE FIELD. ROOF MOUNTED EXHAUST FAN TO BE AS PER SCHEDULE ON M0.1. ROOF MOUNTED EXHAUST FAN TO BE INSTALLED ON 18" ROOF CURB AT LEAST 10 FT AWAY FROM ANY OUTSIDE AIR INTAKE. CONTRACTOR TO COORDINATE EXACT LOCATION IN THE FIELD. INTERLOCK FAN OPERATION WITH WASHER OPERATION AND COORDINATE TIE IN POINT WITH WASHER EQUIPMENT SUPPLIER.
⑨	8"Ø EXHAUST DUCT FOR WASHER TO BE ROUTED TO EF-2 ON ROOF. EXHAUST DUCT WORK TO BE WELDED STAINLESS STEEL. CONTRACTOR TO COORDINATE EXACT ROUTING IN THE FIELD. ROOF MOUNTED EXHAUST FAN TO BE AS PER SCHEDULE ON M0.1. ROOF MOUNTED EXHAUST FAN TO BE INSTALLED ON 18" ROOF CURB AT LEAST 10 FT AWAY FROM ANY OUTSIDE AIR INTAKE. CONTRACTOR TO COORDINATE EXACT LOCATION IN THE FIELD. INTERLOCK FAN OPERATION WITH WASHER OPERATION AND COORDINATE TIE IN POINT WITH WASHER EQUIPMENT SUPPLIER.
⑩	EXISTING EXHAUST DIFFUSER TO BE REBALANCED AS INDICATED.
⑪	CONTRACTOR TO PROVIDE NEW 8"Ø EXHAUST DUCTWORK AND CONNECT TO EXISTING EXHAUST DUCTWORK. CONTRACTOR TO COORDINATE FINAL LOCATION OF NEW EXHAUST DIFFUSER IN THE FIELD.



MECHANICAL PLAN
 3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
 NTS

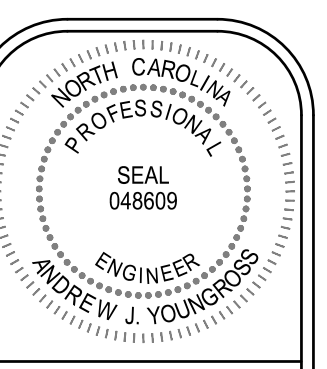


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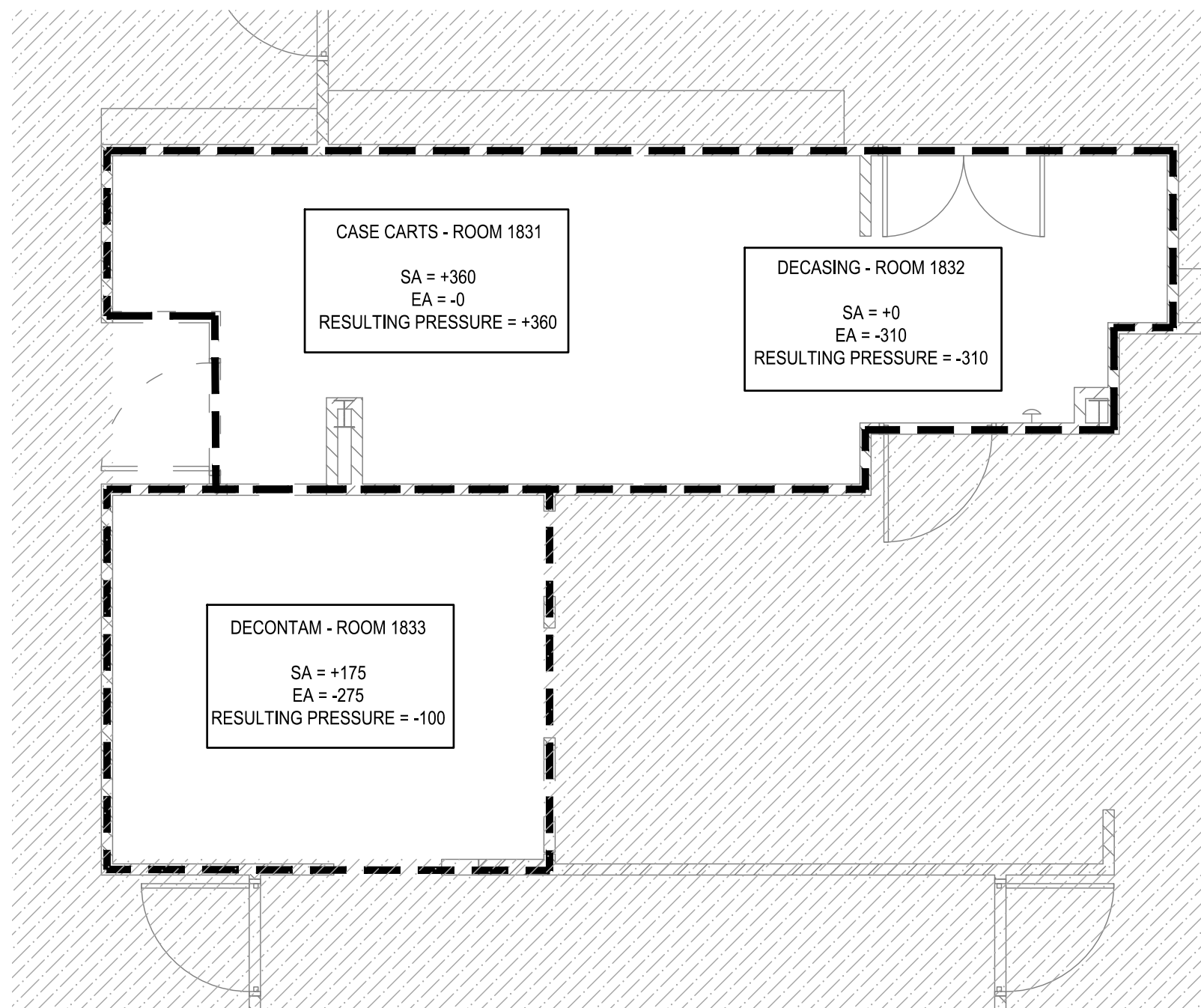
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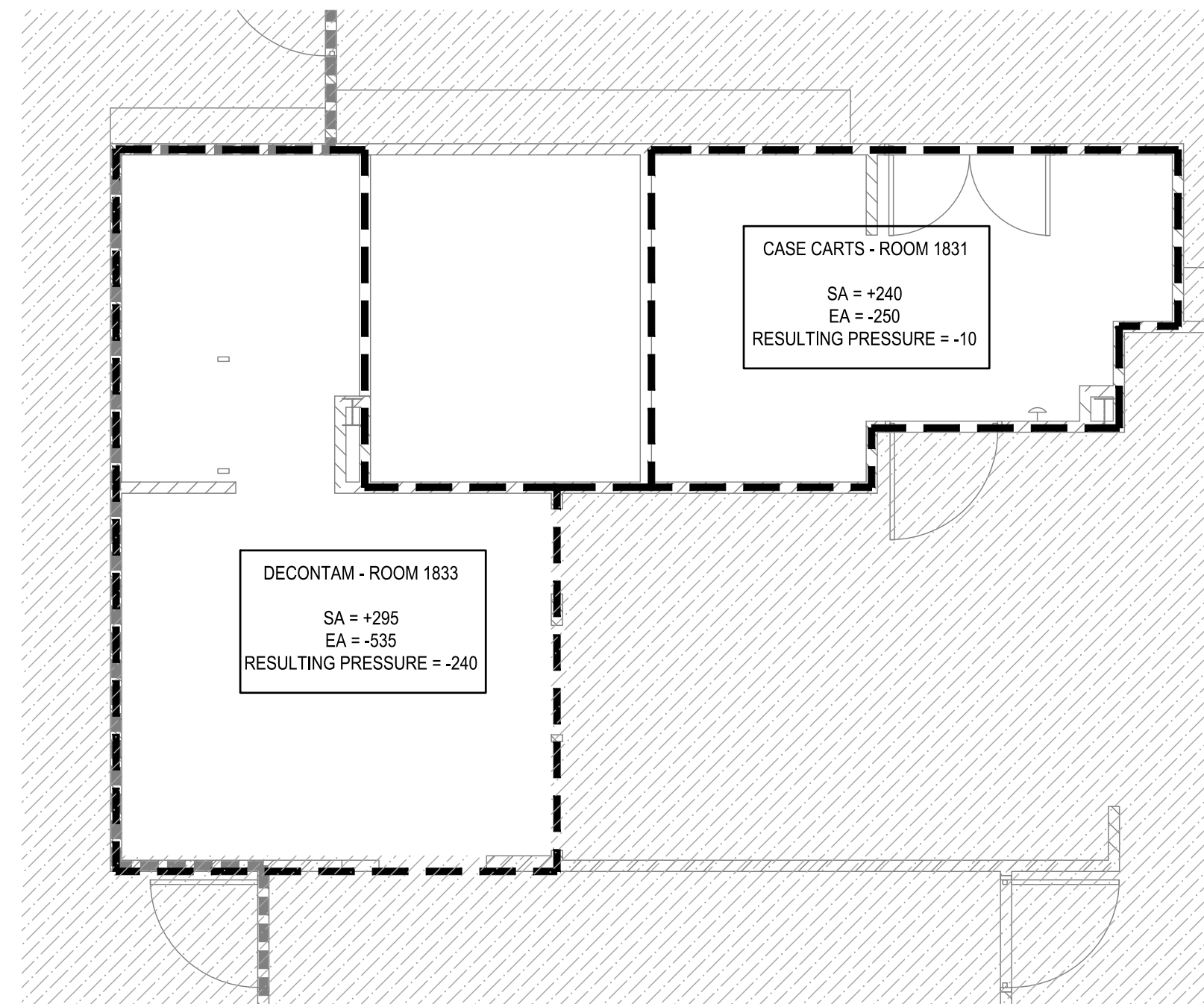
An Interior Renovation for:
**Harnett Health
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 215 Brightwater Drive
 Lillington, North Carolina

job no. 24-029/25157
 principal: AJY
 designer: RR/HL/KS
 file name:
 date: 09.26.25
 title: **AIR BALANCE
 SUMMARY -
 EXISTING AND
 PROPOSED**



AIR BALANCE SUMMARY - EXISTING
 3/16"=1'-0"

PLAN NORTH TRUE NORTH

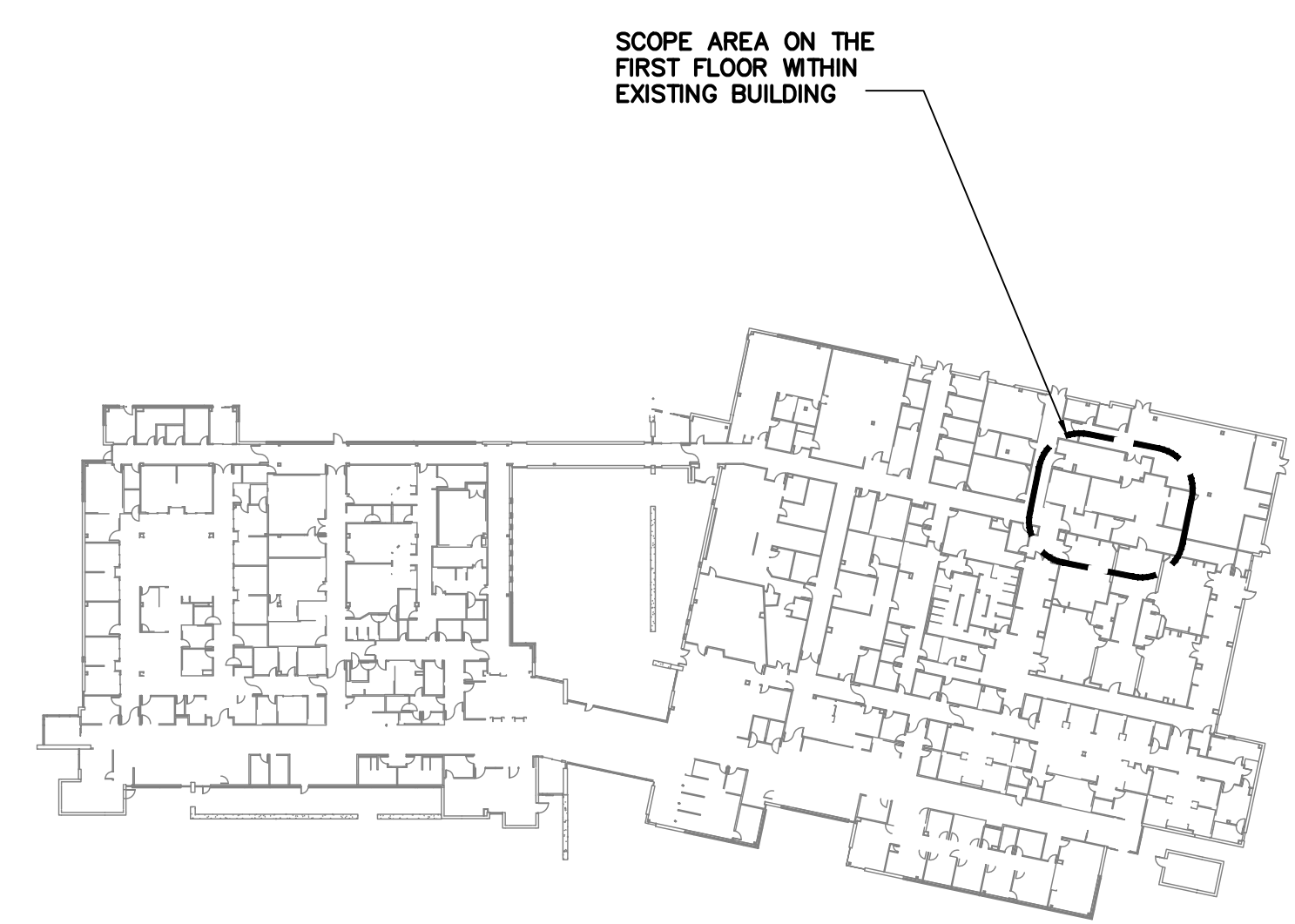


AIR BALANCE SUMMARY - PROPOSED
 3/16"=1'-0"

PLAN NORTH TRUE NORTH

GENERAL NOTES

EXISTING DIFFUSER VALUES ARE BASED ON EXISTING PLANS PROVIDED TO THE ENGINEER DATED DECEMBER 03, 2010. NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES BETWEEN THE EXISTING SUPPLY AND EXHAUST DIFFUSER VALUES AND THE ACTUAL SUPPLY AND EXHAUST DIFFUSER VALUES BASED ON THE FINAL TEST AND BALANCE THAT IS TO BE PERFORMED BY CONTRACTOR.



OVERALL FIRST FLOOR PLAN
 NTS

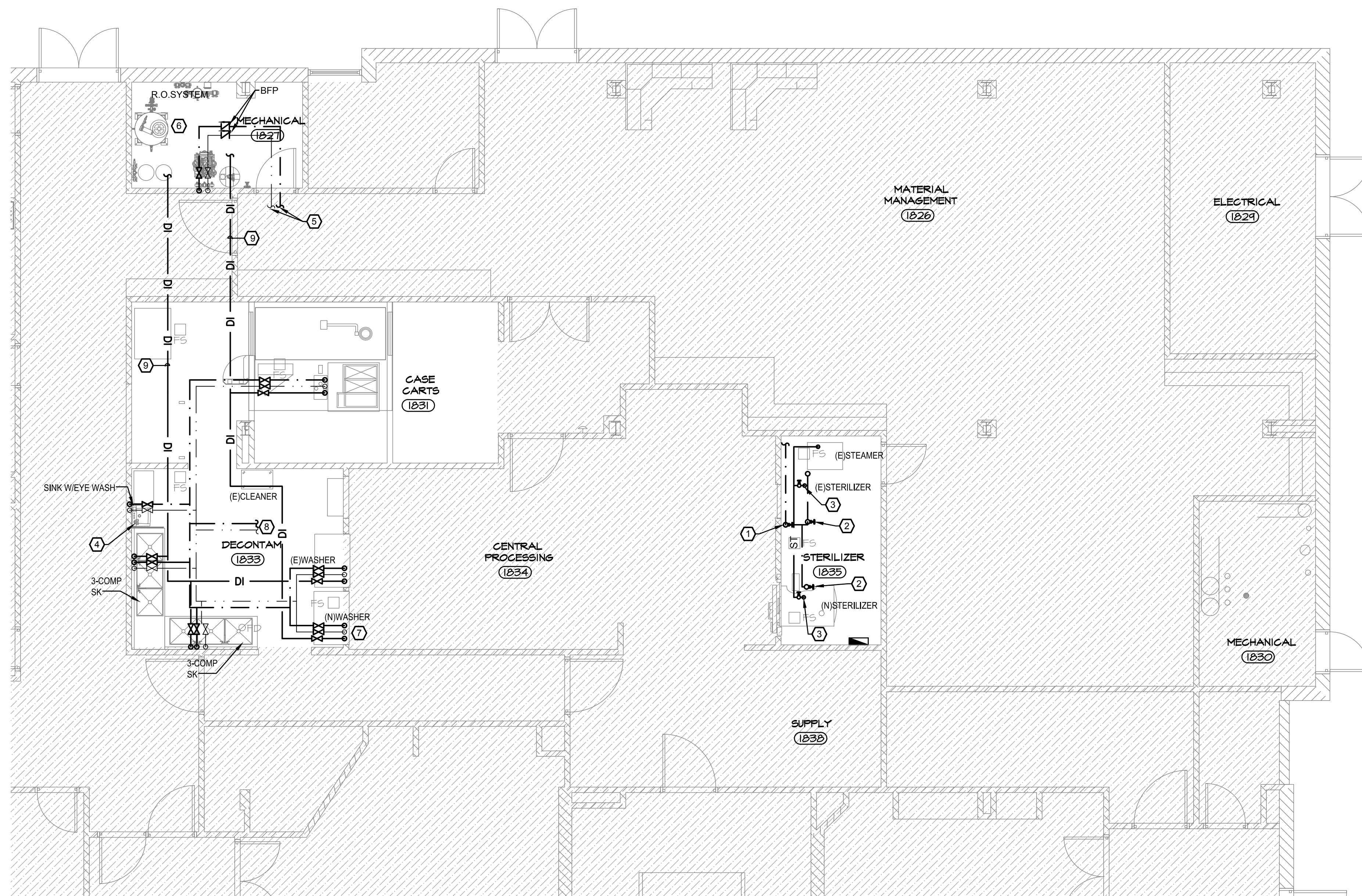
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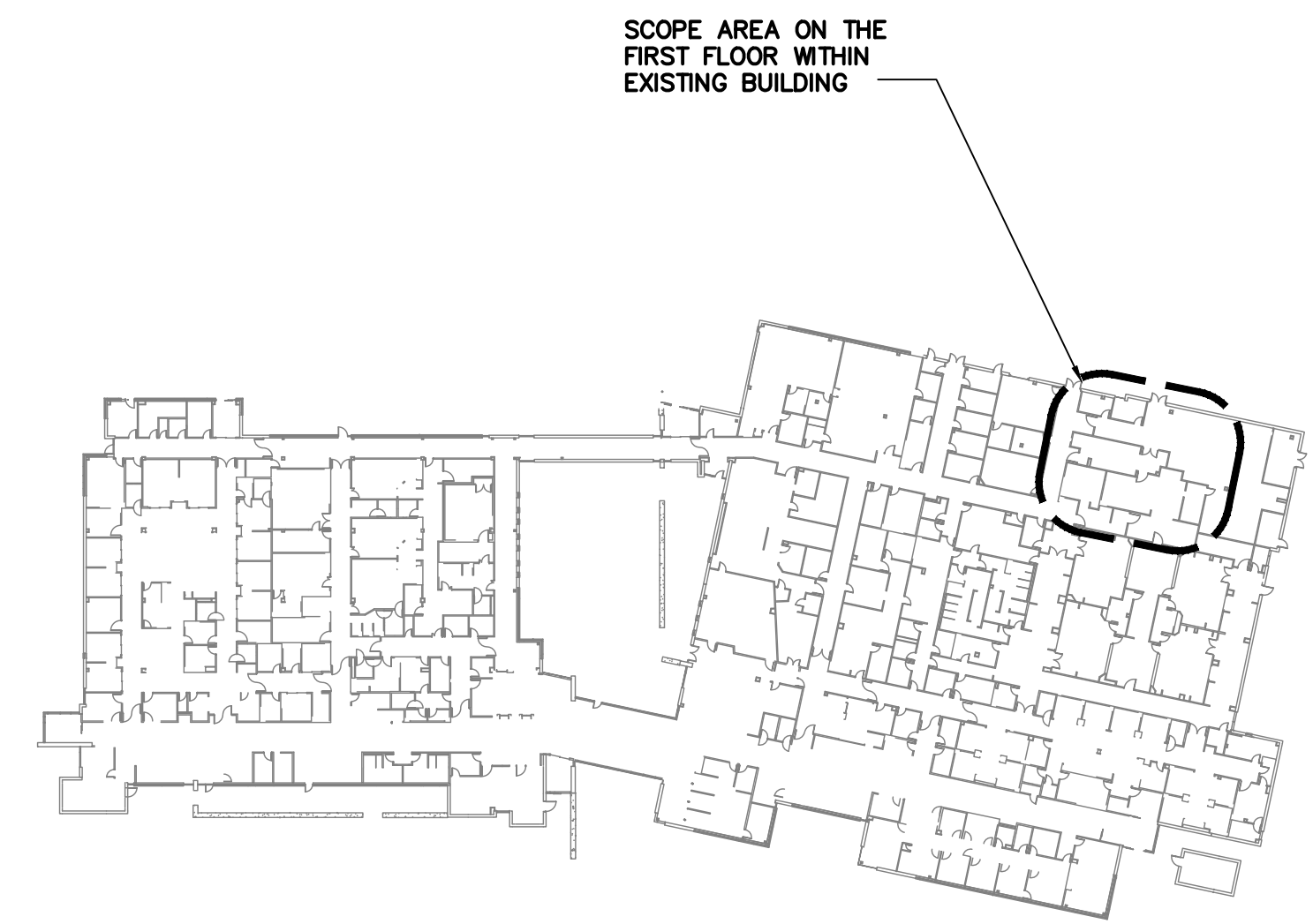
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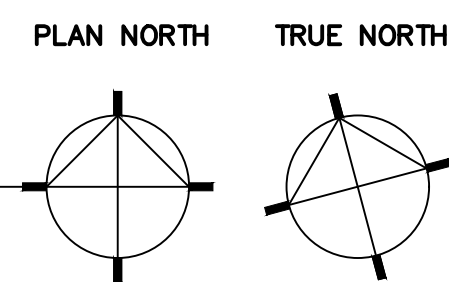
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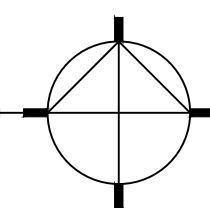
PLAN KEY NOTES	
1	PROVIDE NEW SHUT OFF VALVE ON RISER FROM EXISTING MAIN WATER SUPPLY. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION PRIOR TO COMMENCING ANY WORK.
2	PROVIDE INDIVIDUAL SHUT-OFF VALVE ON 1" CW SUPPLY. PROVIDE 3/4" CW FOR EACH STERILIZER FOR THE DRAIN COOLING VALVES.
3	PROVIDE NEW SHUT-OFF VALVE ON STEAM PIPING AND SPLIT STEAM SUPPLY IN 2 SEPARATE BRANCHES EACH ONE WITH ISOLATION VALVE. ONE FOR EACH STERILIZER. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION PRIOR TO COMMENCING ANY WORK.
4	DECK MOUNTED EYE WASH GUARDIAN G1949 OR SIMILAR. AUTOFLOW 90° SWING-DOWN. PROVIDE G8020 THERMOSTATIC MIXING VALVE TO PRECISELY BLEND HOT AND COLD WATER TO DELIVER TEPID WATER AS REQUIRED BY ANSI Z358.1-2014.
5	CONNECT NEW 3/4" CW AND HW LINES WITH VALVES AND BACKFLOW PREVENTORS TO EXISTING WATER LINES THIS AREA. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION PRIOR TO COMMENCING ANY WORK.
6	R.O. SYSTEM ROOM. R.O. EQUIPMENT LAYOUT BY WATER VENDOR VINCENT TESORO II AT MECHANICAL SOLUTIONS INC. (WATERGURU.COM)
7	CONNECT NEW 3/4" CW AND HW AND 3/4" D.I. WATER LINES WITH VALVES TO NEW WASHER. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION PRIOR TO COMMENCING ANY WORK.
8	CONNECT NEW 3/4" CW AND HW LINES TO EXISTING WATER LINES THIS AREA. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION PRIOR TO COMMENCING ANY WORK.
9	3/4" D.I. WATER LOOP TO FEED SINKS, WASHERS AND CART WASH.



PLUMBING PLAN - DOMESTIC AND DI WATER
3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
NTS



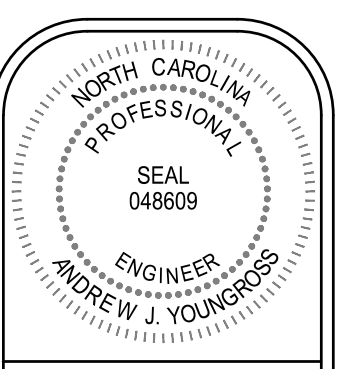
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HVAC
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ELECTRICAL

C.D. HAIR ARCHITECT
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West Palm Beach, FL
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revision:

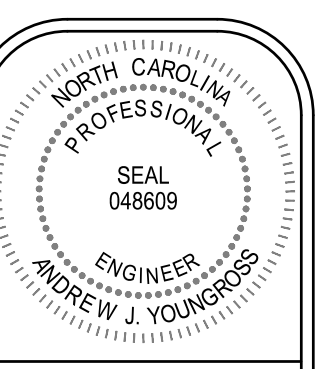


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principal: AJY
designer: RR/HL/KS
file name:
date: 09.26.25
title:
**PLUMBING
PLAN DOMESTIC
AND DI WATER**

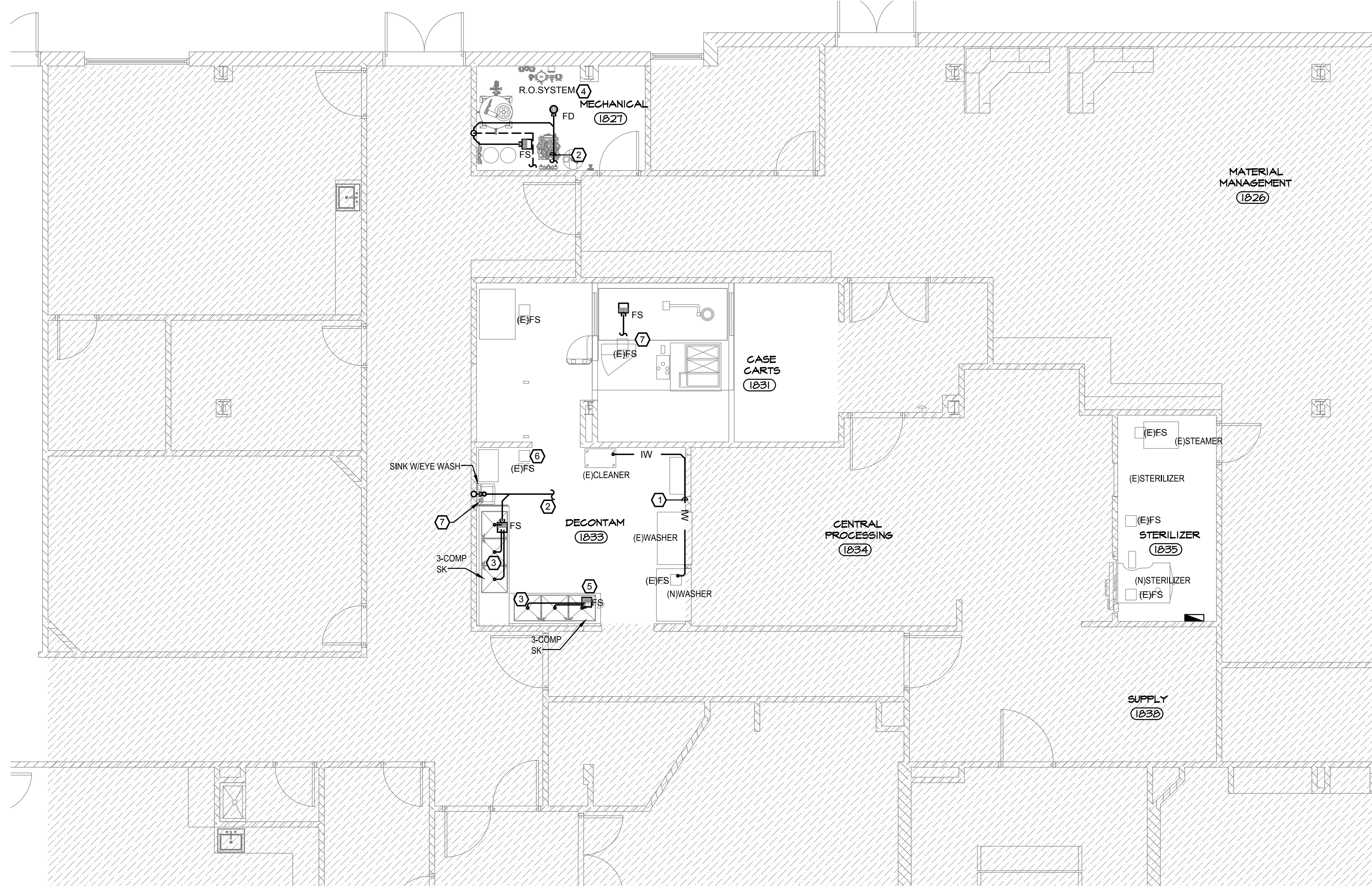
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P1.1

revision:

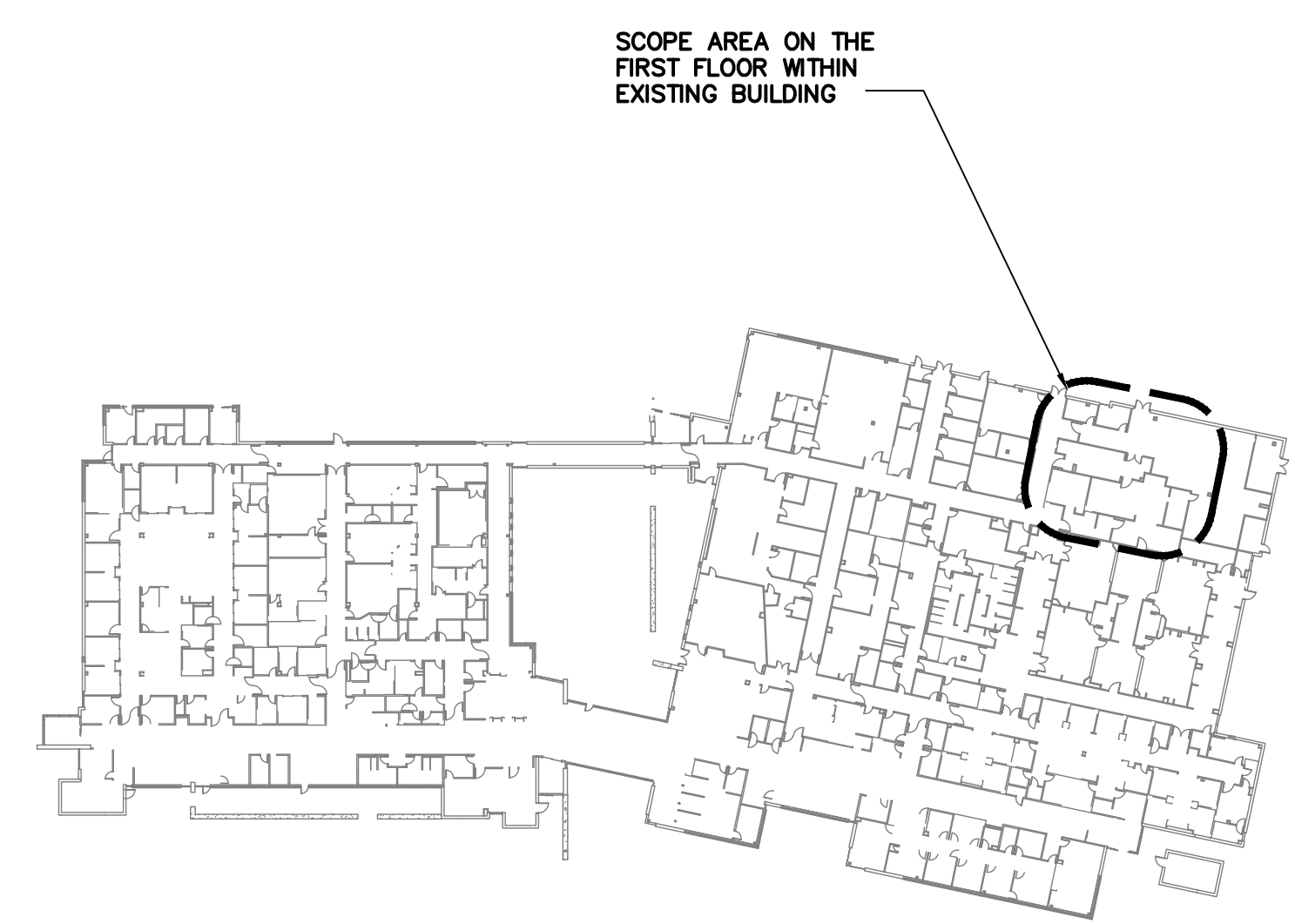


An Interior Renovation for:
**Harnett Health
 Central Sterile Renovation**
 215 Brightwater Drive
 Lillington, North Carolina

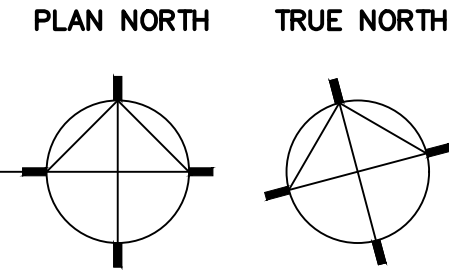
job no. 24-029/25157
 principal: AJY
 designer: RR/HL/KS
 file name:
 date: 09.26.25
 title:
**PLUMBING
 PLAN
 SANITARY**



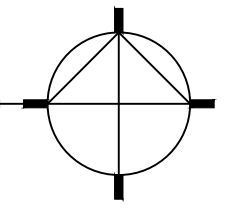
PLAN KEY NOTES	
①	EXTEND INDIRECT WASTE FROM ULTRASONIC CLEANER TO EXISTING FLOOR SINK THIS AREA AND TERMINATE WITH AN AIR GAP. CONTRACTOR SHALL VERIFY IN FIELD EXACT LOCATION OF FLOOR SINK.
②	CONNECT NEW 4" SANITARY LINE TO EXISTING SANITARY LINE THIS AREA. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE, LOCATION AND INV. ELEVATIONS PRIOR TO COMMENCING ANY WORK.
③	PROVIDE 1 1/2" INDIRECT WASTE FROM EACH SINK WELL AND TERMINATE OVER FLOOR SINK WITH AN AIR GAP AS PER NORTH CAROLINA PLUMBING CODE 2018 SECTION 802.1.1
④	R.O. SYSTEM ROOM. R.O. EQUIPMENT LAYOUT BY WATER VENDOR VINCENT TESORO II AT MECHANICAL SOLUTIONS INC. (WATERGURU.COM)
⑤	REMOVE AND REPLACE EXISTING FLOOR DRAIN WITH NEW FLOOR SINK. SEE SPECS. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE AND LOCATION.
⑥	REMOVE EXISTING FLOOR SINK. CAP SANITARY BELOW SLAB. PATCH TO MATH FLOOR.
⑦	REMOVE EXISTING FLOOR SINK. EXTEND SANITARY TO NEW FLOOR SINK LOCATION INSIDE PIT. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE, LOCATION AND INVERT ELEVATION PRIOR TO COMMENCING ANY WORK.



PLUMBING PLAN - SANITARY
 3/16"=1'-0"



OVERALL FIRST FLOOR PLAN
 NTS



NOTE
 THESE DRAWINGS ARE PREPARED PER ESTABLISHED INDUSTRY STANDARDS AND REPRESENT THE ENGINEERS DESIGN CONCEPT. THEY ARE NOT INTENDED TO PROVIDE EVERY DETAIL OR CONDITION REQUIRED TO CONSTRUCT THE BUILDING. THE CONTRACTOR THROUGH SUBMITTALS AND OTHER COORDINATION EFFORTS IS FULLY RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL BUILDING WHETHER INDICATED ON THE PLANS OR NOT.

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HVAC
 PLUMBING
 ELECTRICAL