

MIDTOWN VASCULAR

AMBULATORY SURGICAL CENTER



PROJECT BRIEF

THIS PROJECT CONSISTS OF APPROXIMATELY 3,141 SF OF INTERIOR RENOVATION WITHIN AN EXISTING 5,409 SF MEDICAL OFFICE TO CONVERT THE FACILITY INTO A STATE-OF-THE-ART AMBULATORY SURGERY CENTER (ASC). THE RENOVATED AREA WILL INCLUDE TWO PROCEDURE ROOMS, FOUR PRE-/POST-PROCEDURE BAYS, AND ASSOCIATED SUPPORT AND ANCILLARY SPACES. EXTERIOR IMPROVEMENTS INCLUDE THE INSTALLATION OF A NEW EMERGENCY GENERATOR AT THE REAR OF THE BUILDING, ENCLOSED BY A NEW SECURITY FENCE. THE EXISTING OFFICE AND ADMINISTRATIVE AREAS WILL REMAIN LARGELY UNCHANGED.

APPROVED
GEORGIA STATE FIRE MARSHAL'S OFFICE
SUBJECT TO FINAL FIELD INSPECTION
Final approval subject to noted comments and field inspection
Based on NFPA Standards & GA Accessibility Code

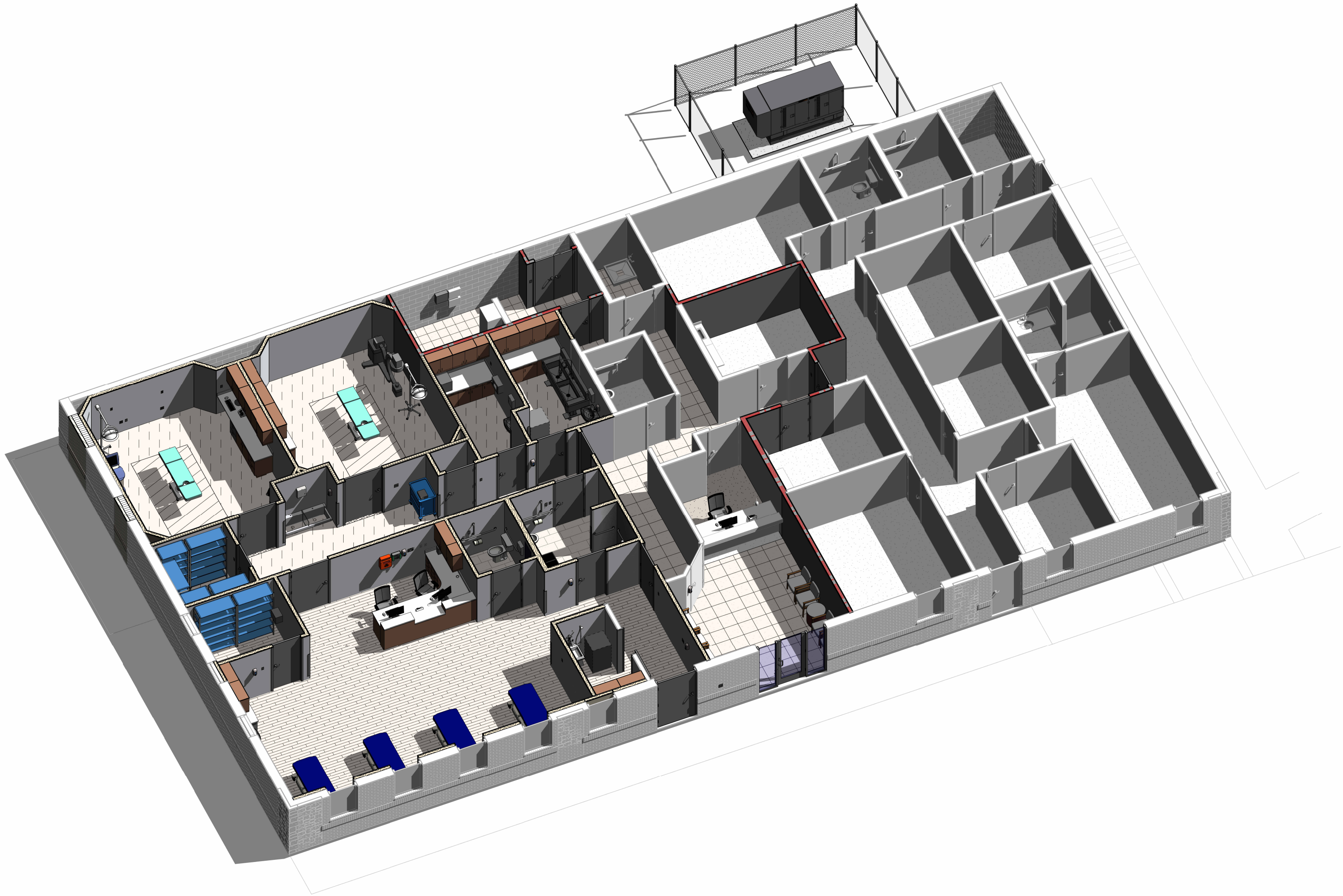
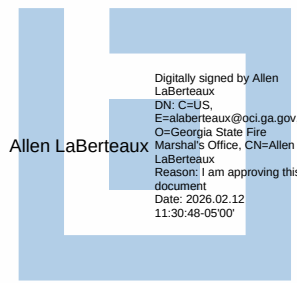
**A COMPLETE SET OF APPROVED PLANS
& SPECIFICATIONS SHALL BE MAINTAINED
ON CONSTRUCTION SITE AT ALL TIMES**

**THIS OFFICE SHALL BE NOTIFIED IN WRITING
AT LEAST 21 DAYS PRIOR TO 80% & 100% COMPLETION
FOR INSPECTIONS**

FIRE STOPPING REQUIREMENT
Penetrations through rated walls & floors shall be sealed with a material capable of preventing the passage of flames and hot gasses where subjected to the requirements of the test standard specific for fire stop ASTM-E-814

**SPRINKLER CONTRACTOR SHALL HAVE CERTIFICATE OF
COMPETENCY FROM GEORGIA STATE FIRE MARSHAL'S OFFICE.
SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED TO THE
GEORGIA STATE FIRE MARSHAL'S OFFICE FOR REVIEW &
APPROVAL PRIOR TO INSTALLATION.**
SUBJECT TO CIVIL PENELTIES

APPROVED AS SUBMITTED



OWNER

PHYSICIANS CONSULTANTS OF GEORGIA
INTERVENTIONAL DBA MIDTOWN VASCULAR CENTER
1445 GEORGIA AVENUE
MACON, GA 31201

ARCHITECT & INTERIOR DESIGNER

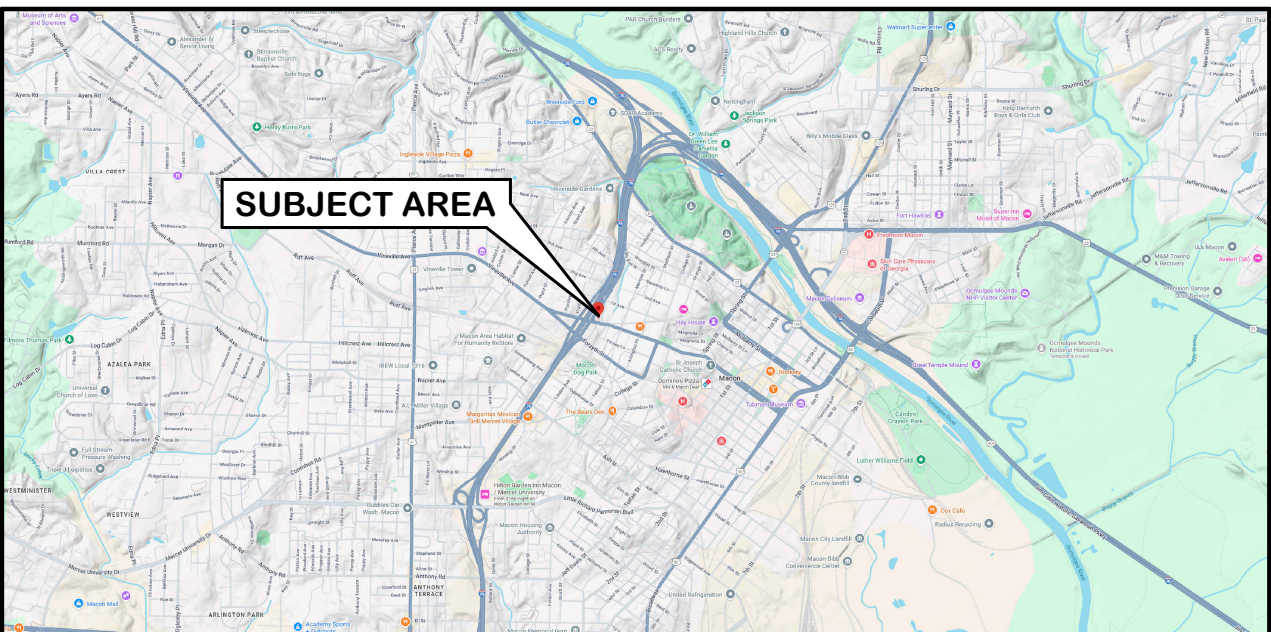
FRANDSEN ARCHITECTS, PC
655 WINDING CREEK TRAIL
DACULA, GA 30019

MECHANICAL, PLUMBING & ELECTRICAL ENGINEER

SHEPHERD, HARVEY & ASSOCIATES, INC.
4855 RIVER GREEN PARKWAY, SUITE 400
DULUTH, GA 30096

GENERAL CONTRACTOR

STROUD & COMPANY
P.O. BOX 4044
MACON, GA 31208



LOCATION MAP



VICINITY MAP

CONSTRUCTION DOCUMENTS

INTERIM LIFE SAFETY MEASURES

1. Interim Life Safety Measures (ILSM) must be implemented to temporarily compensate for hazards posed by:
- 1.1 Construction activities (in or adjacent to all construction areas)
- 1.2 Throughout buildings with existing Life Safety Code deficiency
2. The ILSM apply to all personnel, including construction workers, and will be implemented upon project development and continuously enforced through project completion.
3. PROCEDURES:
- 3.1 Ensuring exits provide free and unobstructed egress. Personnel shall receive training if alternative exits must be designated. Buildings or areas under construction must maintain escape facilities for construction workers at all times. Means of egress in construction areas must be inspected daily.
- 3.2 Ensuring free and unobstructed access to emergency departments/services and for emergency forces.
- 3.3 Ensuring fire alarm, detection, and suppression systems are not impaired. A temporary but equivalent system shall be provided when any fire system is impaired. Temporary systems must be inspected and tested monthly.
- 3.4 Ensuring temporary construction partitions are smoke tight and built of non-combustible or limited combustible materials that will not contribute to the development or spread of a fire.
- 3.5 Providing additional fire-fighting equipment and use training for personnel.
- 3.6 Prohibiting smoking in or adjacent to all construction areas.
- 3.7 Developing and enforcing storage, housekeeping, and debris removal practices that reduce the flammable and combustible fire load of the building to the lowest level possible for daily operations.
- 3.8 Conducting a minimum of two (2) fire drills per shift per quarter.
- 3.9 Increasing hazard surveillance of building, grounds, and equipment with special attention to excavations, construction areas, construction storage, and field offices.
- 3.11 Conducting organization wide safety education programs to ensure awareness of any Life Safety Code deficiencies, construction hazards, and these ILSM.
4. CLARIFICATION:
- 4.1 Daily logs will be kept by the contractor of all procedures which interrupt or impede any life safety system.
- 4.2 When deactivation of fire control systems is involved during a project, a temporary system must be submitted, approved by the Construction Team and implemented prior to the primary system shutdown. The approved system must be inspected and tested by the General Contractor not less than monthly. The inspections and tests must be documented.
- 4.3 The General Contractor must provide extra fire suppression devices, and train personnel in recommendations.
- 4.4 No smoking will be allowed in or adjacent to the construction area. Personnel will be advised of the approved smoking areas. Violation of this policy will be cause for dismissal recommendation.
- 4.5 The Safety officer will assist in surveillance inspections and will submit a written report to the Construction Project Manager.
- 4.6 Evaluations of measures implemented will be reviewed at regularly scheduled meetings by the Construction Team and recommendations will be made to correct any problems or deficiencies.
5. MONITORING WORKSHEET:
- 5.1 Weekly Life Safety Monitoring Worksheets will be completed by the Monitoring Project Manager and copies will be submitted to Facilities Management, Life Safety Representative.

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PROJECT CRITERIA

JURISDICTION: MACON-BIBB COUNTY

EXISTING BUILDING CONSTRUCTION TYPE : TYPE V-B

TOTAL RENOVATED INTERIOR SQUARE FOOTAGE: 3,141 SF

TOTAL INTERIOR SQUARE FOOTAGE OF BUILDING: 5,409 SF

FIRE SPRINKLERED: YES; FIRE ALARM: YES; SMOKE DETECTORS : YES

OCCUPANCY CLASSIFICATIONS : GROUP B WITH AMBULATORY CARE FACILITY PROVISIONS

OCCUPANT LOAD LIMITS : SEE LIFE SAFETY SHEET A2

TOTAL OCCUPANT LOAD: SEE LIFE SAFETY SHEET A2

MAX. COMMON PATH OF EGRESS TRAVEL: 100' (SPRINKLERED)

MIN. NUMBER OF MEANS OF EGRESS REQUIRED: 2 REQ., 4 PROVIDED

MAX. EXIT ACCESS TRAVEL DISTANCE (IRC TABLE 1017.2): 300' (SPRINKLERED)

NFPA 101, 2024 Ed.

REQUIRED EGRESS WIDTH : MINIMUM CORRIDOR WIDTH 44"

MAX. DEAD END CORRIDOR: 30'-0" (SPRINKLERED)

MIN. DOOR WIDTH: 32" (PER SECTION 7.2.1.2.3; 36" WIDE DOORS PROVIDE 35" CLEARANCE AND MEET THE 32" REQUIREMENT)

PLUMBING FIXTURE CALCULATIONS (IBC TABLE 2002.1):

REQUIRED WATER CLOSETS:

1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50 (MALE & FEMALE)

3 MALE & 3 FEMALE ADA PUBLIC WATER CLOSETS PROVIDED

REQUIRED LAVATORIES:

1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80 (MALE & FEMALE)

3 MALE & 3 FEMALE PUBLIC LAVATORIES PROVIDED

REQUIRED DRINKING FOUNTAIN:

1 PER 100 OCCUPANTS

1 ADA HIGH-LOW DRINKING FOUNTAIN PROVIDED

REQUIRED SERVICE SINK:

2 PROVIDED

LOCAL CITY

PENDING

LOCAL FIRE MARSHAL

PENDING

OCCUPANCY PERMIT

PENDING

DEPARTMENT OF COMMUNITY HEALTH

PENDING

GEORGIA STATE FIRE MARSHAL

PENDING

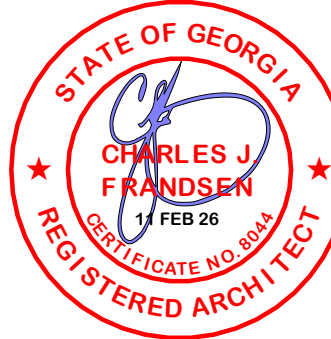
GENERAL NOTES

- CONTRACT DOCUMENTS
1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS ON THE JOB SITE PRIOR TO THE START OF CONTRACT. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.
2. THE EXISTENCE OR LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURE SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, EXISTING UTILITIES ARE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREIN.
3. CONTRACTORS & SUBCONTRACTORS MUST BECOME THOROUGHLY FAMILIAR WITH CONDITIONS AFFECTING THE WORK. SITE ACCESS WILL BE PROVIDED BY THE OWNER AS REQUESTED BY EACH CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR FAILURE TO HAVE VISITED THE SITE AND BECOMING FAMILIAR WITH CONDITIONS THAT COULD HAVE BEEN FORESEEN/OBSERVED PRIOR TO BIDDING.
4. THE TITLE SHEET CONTAINS A LIST OF DRAWINGS WHICH COMPRISE A FULL SET OF DRAWINGS FOR THIS PROJECT. THIS FULL DRAWING SET ALONG WITH THE SPECIFICATIONS COMPRISE A WHOLE BIDDING PACKAGE THAT IS NEVER TO BE SPLIT AND BID IN PARTS OR SECTIONS. ANY CONTRACTOR, SUB-CONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THE PROJECT SHALL BE RESPONSIBLE FOR THE INFORMATION CONTAINED IN ANY AND ALL THE SHEETS OF THIS DRAWING SET AND SPECIFICATIONS. IF ANY PERSON, PARTY OR ENTITY ELECTS TO SUBMIT BIDS FOR ANY PORTION, OR ALL OF THIS PROJECT, THAT PERSON, PARTY OR ENTITY SHALL BE RESPONSIBLE FOR ANY AND ALL INFORMATION CONTAINED IN THESE DRAWINGS AND SPECIFICATIONS, BUT NOT LIMITED TO, ANY SUBSEQUENT ADDENDUMS OR CLARIFICATIONS THAT MAY BE ISSUED IN RELATION TO THE RESPECTIVE BIDDERS DISCIPLINE.
5. ANY SYMBOL OR LEGEND ITEM SHOWN IN THIS DRAWING REPRESENTS A COMPLETE FUNCTIONAL SYSTEM INCLUDING HEAD, END, SUPPLY AND CONNECTIONS TO SHOWN FIXTURES. THE CONTRACTOR SHALL EXAMINE ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DRAWINGS THAT HAVE BEEN PREPARED FOR THIS PROJECT. ACCEPT SUCH CONDITIONS, AND MAKE ALLOWANCES FOR THEM IN PREPARING THEIR BID.

Architecture
Strategic Planning
Program Management
Interior Design

FRANDSEN
ARCHITECTS, PC

655 Winding Creek Trail
Dacula, GA 30019
Tel.: 770.622.1408
info@frandsenarchitects.com
www.frandsenarchitects.com



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DESIGN DOCUMENTS FOR :

MIDTOWN VASCULAR

AMBULATORY SURGICAL CENTER

1625 HARDEMAN AVE
MACON, GA 31201



SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
18	NOV 25	DESIGN DEVELOPMENT
11	FEB 26	CONSTRUCTION DOCUMENTS

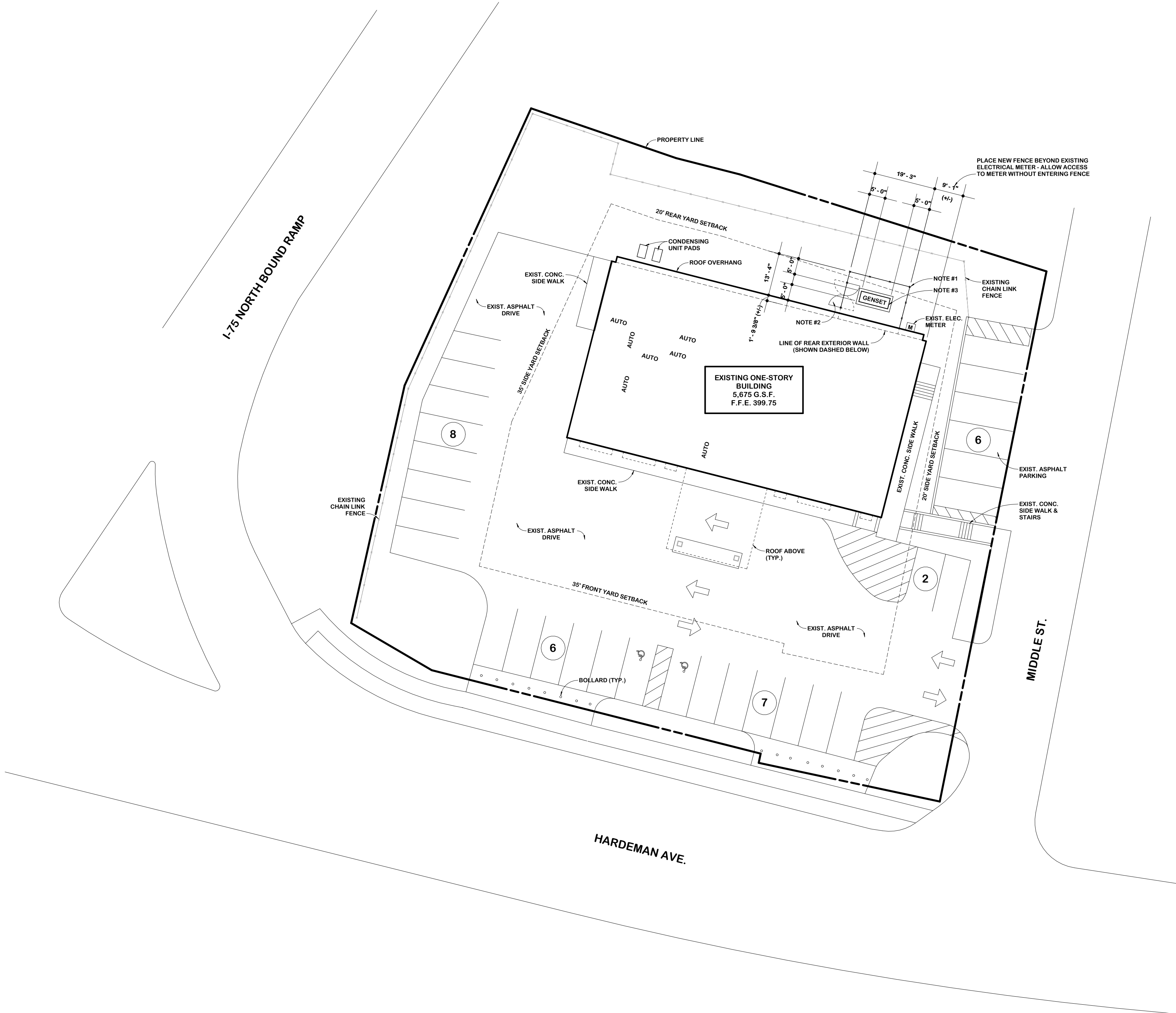
SHEET TITLE

APPROVALS & GENERAL NOTES

SHEET NUMBER

T2

DRAWN BY	APPOINTED	PROJECT
ECF	30 JUL 25	25119



SITE PLAN
SCALE: 1" = 20'-0"



SITE NOTES

1. PROVIDE 8'-0" HIGH GALVANIZED CHAIN-LINK FENCE WITH 1-5/8" O.D. TOP RAIL, 2-1/2" O.D. LINE POSTS AT 10'-0" O.C., AND 3" O.D. TERMINAL/END POSTS SET IN CONCRETE FOOTINGS (MIN. 10"Ø X 36" DEEP UNLESS NOTED OTHERWISE). FABRIC SHALL BE 8-GAUGE, 2" DIAMOND MESH, HOT-DIP GALVANIZED AFTER WEAVING. FENCE SHALL INCLUDE THREE STRANDS OF OUTWARD-ANGLED BARBED WIRE ON 45° EXTENSION ARMS, FOR A TOTAL HEIGHT OF APPROXIMATELY 8'-0" TO 9'-0" ABOVE GRADE. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO ASTM F567, ASTM A392 CLASS 2, AND MANUFACTURER'S SPECIFICATIONS.
2. PROVIDE (2) 4'-0" WIDE x 8'-0" HIGH DUAL-SWING CHAIN-LINK GATE LEAVES FOR A TOTAL 8'-0" WIDE CLEAR OPENING. EACH GATE LEAF SHALL BE FABRICATED FROM 1-7/8" O.D. GALVANIZED STEEL TUBING WITH 9-GAUGE, 2" DIAMOND MESH FABRIC TO MATCH ADJACENT FENCE. GATES SHALL INCLUDE GALVANIZED ADJUSTABLE HINGES, CENTER DROP ROD, HASP AND KEEPER FOR PADLOCK, AND 45° BARBED WIRE EXTENSION ARMS CONTINUOUS WITH ADJOINING FENCE. GATE POSTS SHALL BE 3" O.D. GALVANIZED STEEL, SET IN 12"Ø X 42" DEEP CONCRETE FOOTINGS, INSTALLED PER ASTM F1184 AND ASTM A392, CLASS 2 COATING STANDARDS.
3. PROVIDE OUTDOOR-RATED DIESEL GENERATOR WITH INTEGRAL SUB-BASE FUEL TANK (MINIMUM 24-HOUR CAPACITY AT FULL LOAD), MOUNTED ON A REINFORCED CONCRETE EQUIPMENT PAD MEASURING 10'-0" LONG x 5'-0" WIDE x 8" THICK (MINIMUM) OR AS REQUIRED BY EQUIPMENT MANUFACTURER. PAD TO BE CONSTRUCTED OF 3,000 PSI (MIN.) CONCRETE WITH #4 REBAR AT 12" O.C. EACH WAY, CENTERED IN SLAB. EXTEND PAD 6" BEYOND GENERATOR FOOTPRINT ON ALL SIDES AND PROVIDE CHAMFERED EDGES AND SMOOTH TROWEL FINISH. COORDINATE PAD ELEVATION AND CONDUIT STUB-UPS WITH ELECTRICAL DRAWINGS. INSTALL AND ANCHOR GENERATOR PER MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES INCLUDING NFPA 30, NFPA 37, AND NFPA 110.

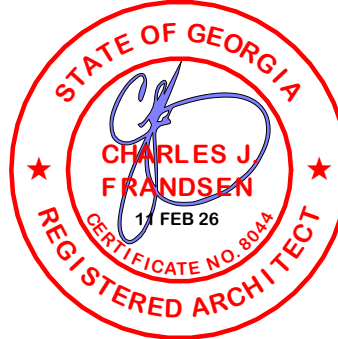
PARKING

EXISTING PARKING SPACES: 29 (2 H.C.)
REQUIRED PARKING SPACES: 28

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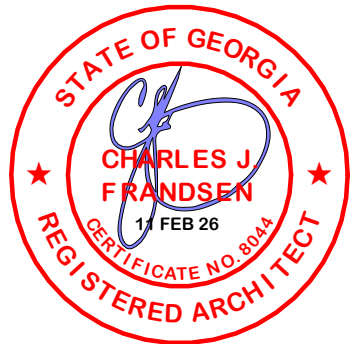


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18	NOV 25	DESIGN DEVELOPMENT
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SHEET TITLE

SITE PLAN

SHEET NUMBER		
A1		
DRAWN BY ECF	APPOINTED 30 JUL 25	PROJECT 25119



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MIDTOWN
VASCULAR

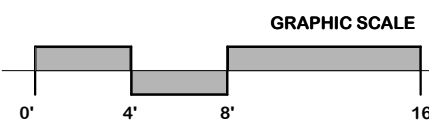
AMBULATORY
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LIFE SAFETY PLAN

SCALE: 1/8" = 1'-0"



LIFE SAFETY TABULATION						
FUNCTION OF SPACE	OCCUPANT LOAD			EGRESS CAPACITY		
	AREA	OCCUPANT LOAD FACTOR	NET OR GROSS	OCCUPANT LOAD	INCHES PER OCCUPANT	INCHES REQUIRED
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	381 SF	300	GROSS	4		0
ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED (TABLES AND CHAIRS)	381 SF	15	NET	26		0
BUSINESS AREAS	2366 SF	150	GROSS	20		0
CIRCULATION AREAS	1632 SF	0	N/A	0		0
STORAGE (ALL OTHER OCCUPANCIES)	233 SF	500	GROSS	4		0
TOILET FACILITIES	512 SF	0	N/A	0		0
TOTALS:	5404 SF			54		0

FUNCTION OF SPACE

- ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED (TABLES AND CHAIRS)
- BUSINESS AREAS
- CIRCULATION AREAS
- STORAGE (ALL OTHER OCCUPANCIES)
- TOILET FACILITIES

LEGEND

NOTE: REFER TO WALL TYPES SHEET FOR WALL TYPE DETAILS.

- NON-RATED PARTITION
- NON-RATED SOUND PARTITION
- NON RATED SMOKE RESISTANT PARTITION
- 1HR. RATED PARTITION
- 1HR. RATED SMOKE PARTITION
- 2HR. RATED PARTITION
- 2HR. RATED SMOKE RESISTANT PARTITION

- F.E.C. SINGLE FIRE EXTINGUISHER RECESSED CABINET
- EXIT LIGHT/SIGN
- SMOKE DETECTOR
- VISUAL FIRE ALARM
- VISUAL & AUDIO FIRE ALARM
- MANUAL PULL STATION

- SMOKE COMPARTMENT BOUNDARY

- SC: ?? SMOKE COMPARTMENT NUMBER

- EGRESS WIDTH (TO EXTERIOR OR 2-HOUR PARTITION)

- TRAVEL DISTANCE LINE TO EXIT

- POINT OF CHOICE

- TRAVEL DISTANCE TO EXIT: ??? TOTAL TRAVEL DISTANCE TO EXIT

FIRE ALARM AND FIRE
SPRINKLER NOTES

FIRE ALARM

PROVIDE A COMPLETE AND OPERATIONAL ADDITION TO THE EXISTING FIRE ALARM IN ACCORDANCE WITH NFPA 72, NFPA 101, AND ALL LOCAL / STATE REQUIREMENTS. SYSTEM SHALL CONSIST OF PULL STATIONS, HORN/STROBE UNITS, SMOKE DETECTORS, DUCT DETECTORS, CONTROL PANELS, AND ALL OTHER COMPONENTS NECESSARY TO DETECT A FIRE AND ANNUNCIATE TO OCCUPANTS. INCLUDE ALL CONDUITORS, CONDUIT, BOXES, HARDWARE, SOFTWARE, AND ALL DEVICES FOR A COMPLETE AND OPERATIONAL SYSTEM. IN ADDITION, PROVIDE ELECTRICAL BRANCH CIRCUIT FOR NORMAL OPERATION AND BATTERY BACKUP WITH 90 MINUTE MINIMUM BACK UP FOR EMERGENCY OPERATION. SYSTEM MUST BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM AND IN NO WAY VOID ANY WARRANTIES, SERVICE CONTRACTS, OR PERFORMANCE OF EXISTING SYSTEM. IF NECESSARY, CONTRACT WITH EXISTING VENDOR TO MAINTAIN PROPER OPERATION.

FIRE SPRINKLER

PROVIDE A COMPLETE AND OPERATIONAL ADDITION TO THE EXISTING FIRE SUPPRESSION SYSTEM IN ACCORDANCE WITH NFPA 13, NFPA 99, AND ALL LOCAL / STATE REQUIREMENTS. SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED SPRINKLER CONTRACTOR. SPRINKLER CONTRACTOR SHALL COORDINATE ALL SPRINKLER / FIRE PROTECTION WORK WITH THE OWNER AND THE WORK OF OTHER TRADES. UPON COMPLETION OF INSTALLATION, THE ENTIRE SYSTEM SHALL BE ACTIVATED AND TESTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION, INCLUDING OWNER'S INSURANCE COMPANY. FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES.

SHEET ISSUANCES

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18 NOV 25		DESIGN DEVELOPMENT
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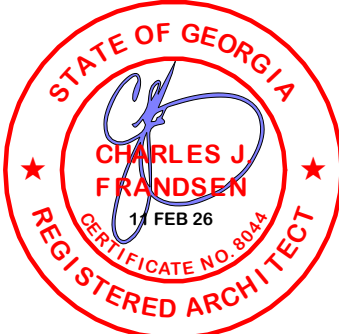
SHEET TITLE

LIFE SAFETY
PLAN

SHEET NUMBER

A2

DRAWN BY	APPPOINTED	PROJECT
ECF	30 JUL 25	25119



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DESIGN DOCUMENTS FOR:

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1625 HARDEMAN AVE
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GENERAL NOTES

- WHERE ANY PART OF EXISTING BUILDING IS CALLED FOR TO BE REMOVED OR NEW CONSTRUCTION IS PERFORMED, THE REMAINING FLOOR, BASE, WALLS & CEILING SHALL BE PATCHED AND REPAIRED TO CONFORM WITH THE REST OF THE SPACE.
- IF A SPACE REQUIRING PATCHING AND REPAIRING IS NOT SCHEDULED TO BE PAINTED, THE ENTIRE WALL IN WHICH PATCHING AND REPAIRING IS PERFORMED SHALL BE PAINTED. PATCH & REPAIR EXISTING WALLS & CEILINGS TO BE PAINTED.
- ANY EXISTING MECHANICAL, ELECTRICAL DEVICES, LIGHTING PROTECTION OR EQUIPMENT AFFECTED BY ANY RENOVATION AND NOT CALLED FOR TO BE REMOVED OR DISCONNECTED, SHALL BE RESTORED AND LEFT IN FULL OPERATING CONDITION.
- EXISTING SPRINKLER PIPING SHALL BE REWORKED TO COORDINATE WITH NEW CEILING HEIGHTS.
- ANY EXISTING FIRE PROOFING ON EXISTING STRUCTURE SHALL BE PRESERVED. IF ANY FIRE PROTECTION IS ALTERED IT SHALL BE REPLACED TO EQUAL THE ORIGINAL DESIGN.
- ANY DIMENSIONS TO EXISTING CONSTRUCTION SHALL BE FIELD VERIFIED BEFORE COMMENCING WORK.
- CONTRACTOR TO VISIT AND BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE COMMENCING WITH WORK.
- COORDINATE WALL TYPES WITH WALL TYPE DETAIL SHEET.

LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- NON-RATED PARTITION
- NON-RATED SOUND PARTITION
- NON RATED SMOKE RESISTANT PARTITION
- 1HR. RATED PARTITION
- 1HR. RATED SMOKE PARTITION
- 2HR. RATED PARTITION
- 2HR. RATED SMOKE RESISTANT PARTITION
- 101 INDICATES DOOR REFERENCE NUMBER
- ROOM 101 INDICATES ROOM NAME & ROOM NUMBER
- A INDICATES WINDOW REFERENCE NUMBER
- 12 INDICATES CABINET OR COUNTER NUMBER
- A- INDICATES WALL TYPE (SEE SCHEDULE)
- F.E.C. SINGLE FIRE EXTINGUISHER RECESSED CABINET
- XXX EXTERIOR ELEVATION NUMBER
- A101 INTERIOR ELEVATION SYMBOL
- ALUMINUM FRAMING ELEVATION NUMBER
- T THERMOSTAT

GROSS AREA TABULATION	
NAME	AREA
GROSS AREA	5674 SF
TOTAL AREA	5674 SF
INTERIOR AREA TABULATION	
NAME	AREA
RENOVATED AREA	3141 SF
EXISTING AREA	2263 SF
TOTAL AREA	5409 SF

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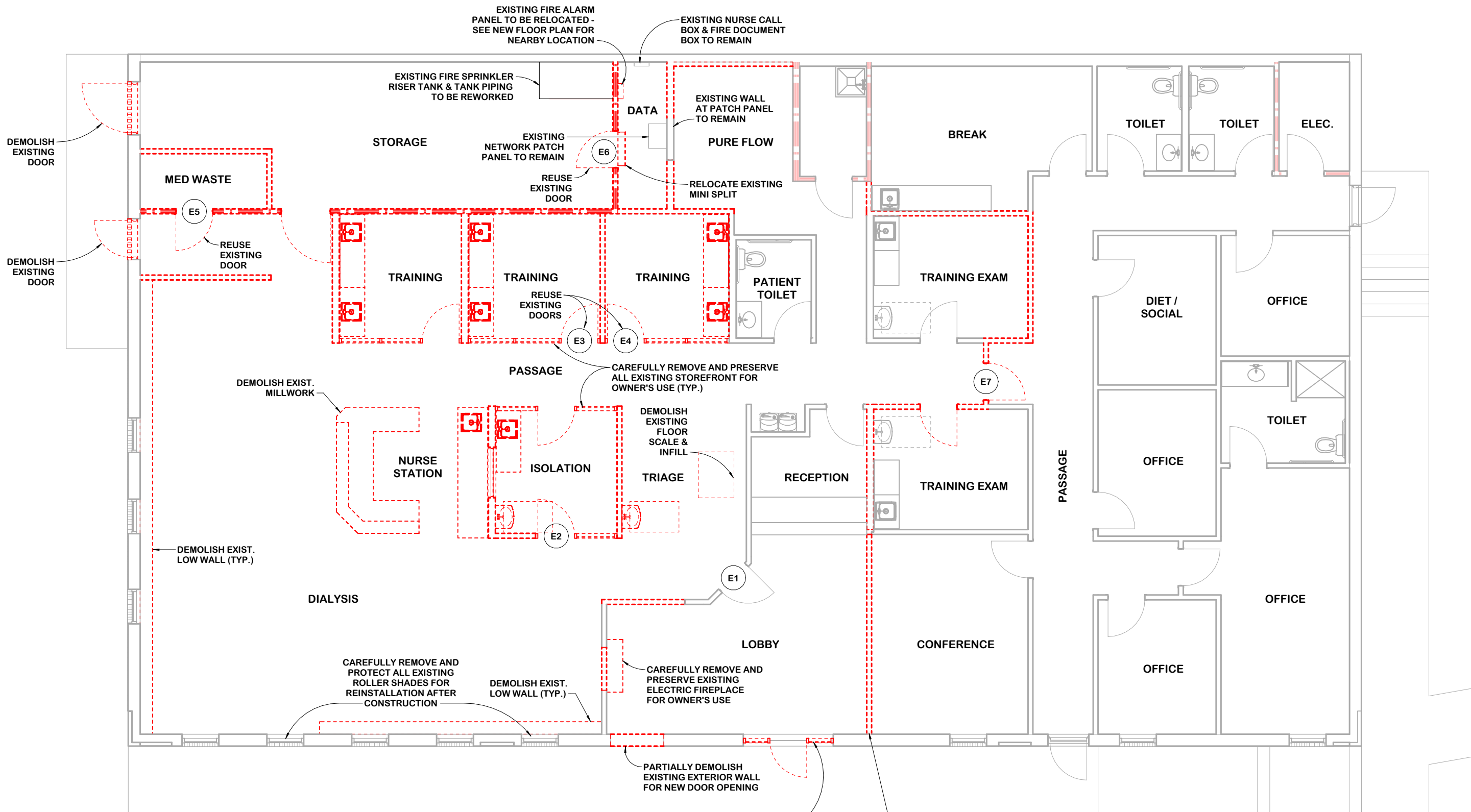
SHEET TITLE

DEMOLITION & FLOOR PLANS

SHEET NUMBER

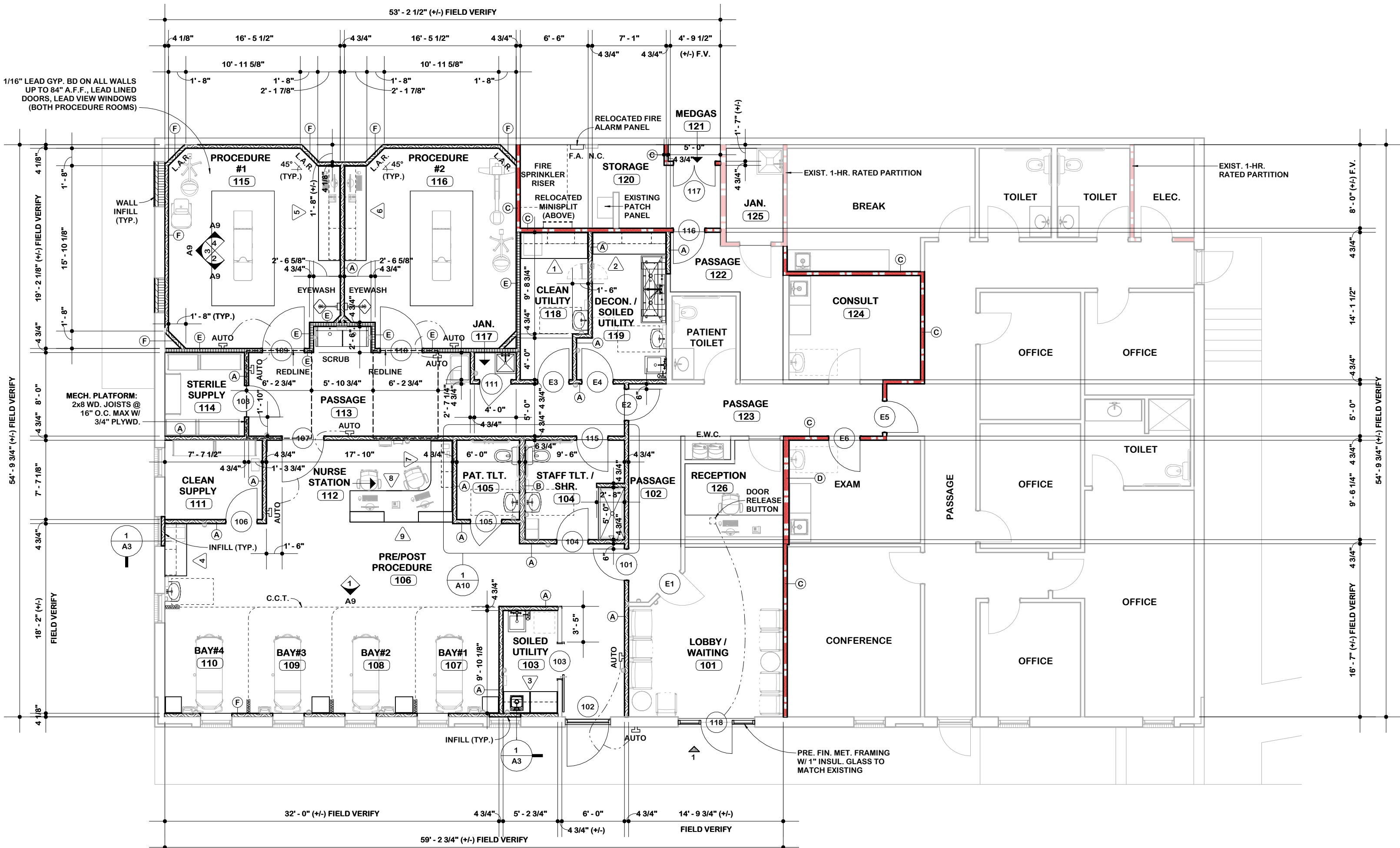
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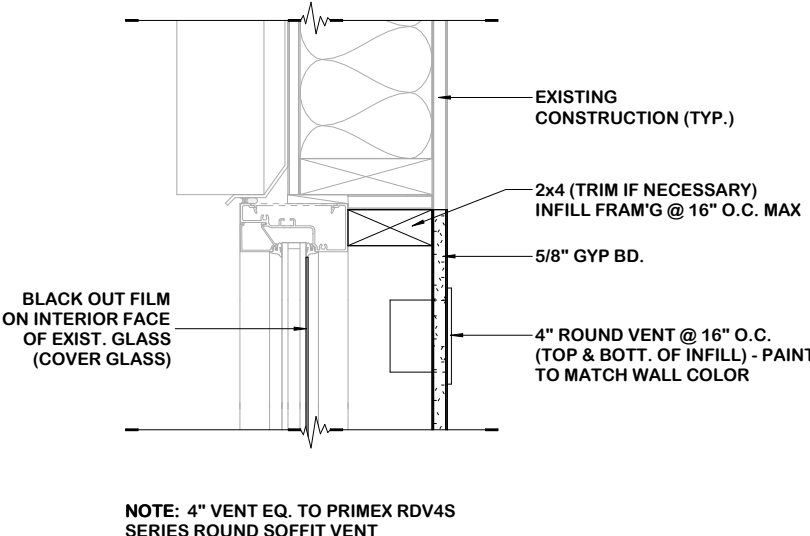
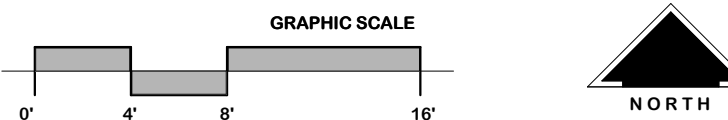
DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



FLOOR PLAN

SCALE: 1/8" = 1'-0"

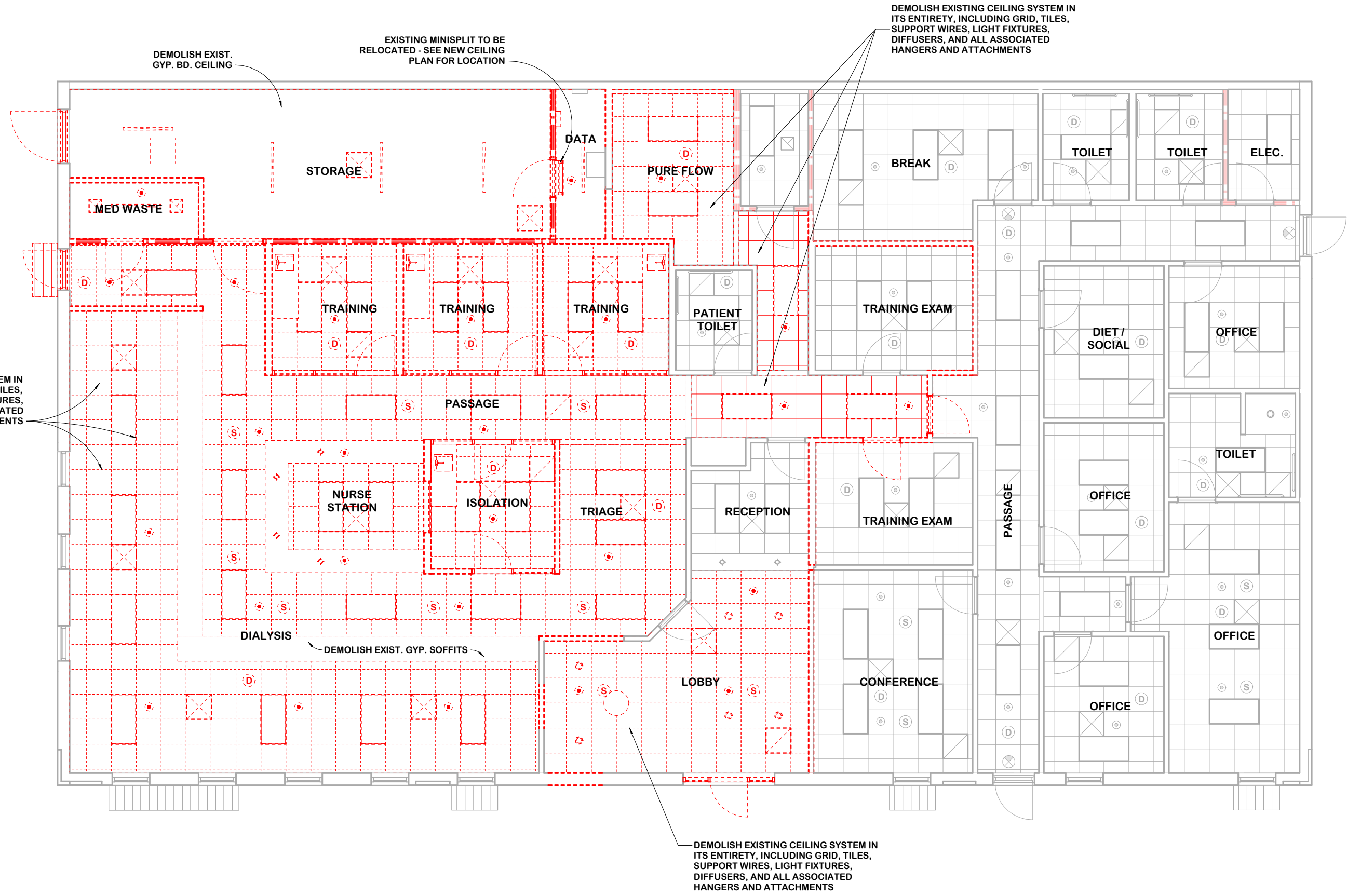


1 A3 INFILL AT STOREFRONT

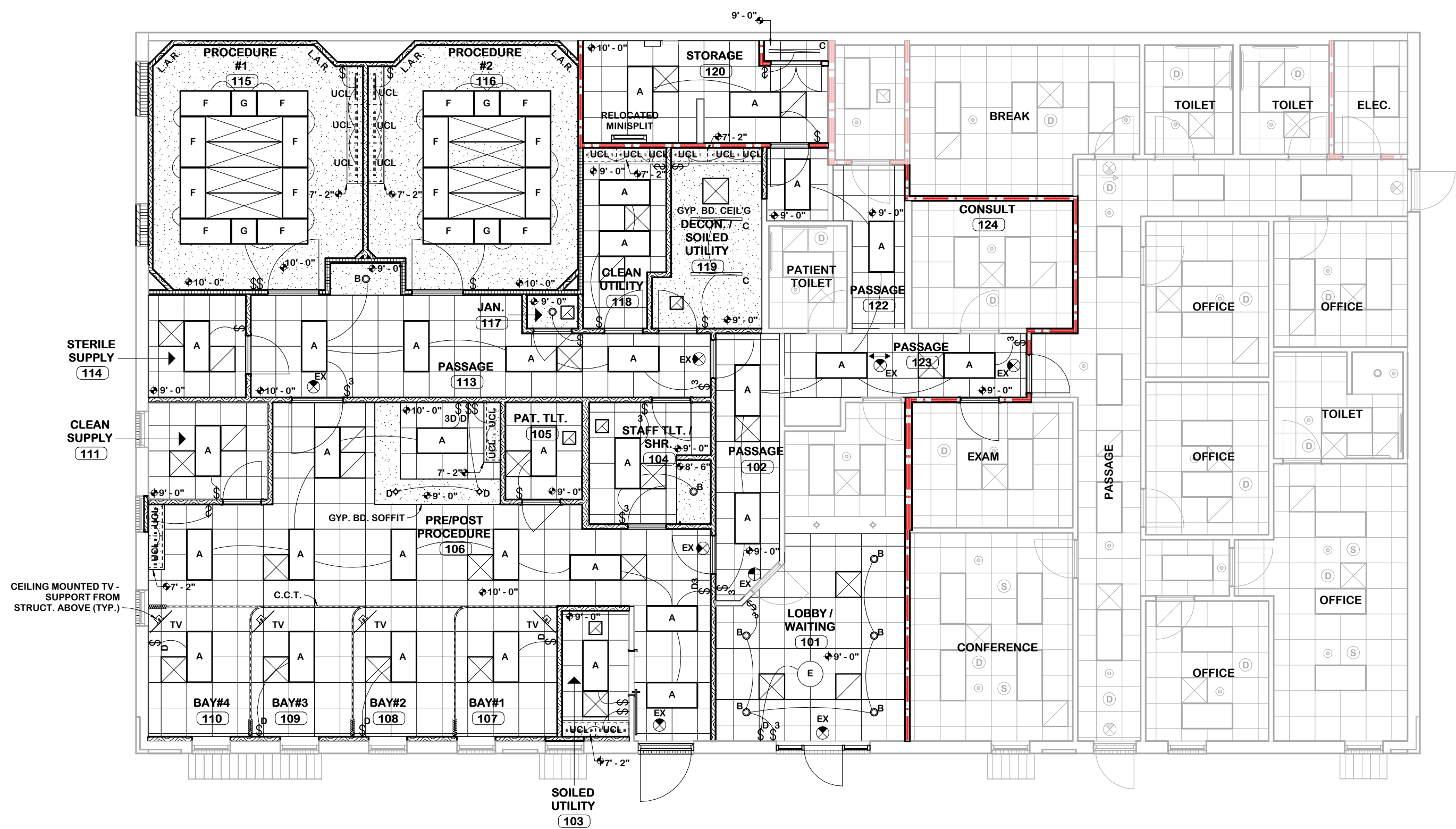
SCALE: 1/2" = 1'-0"

WALL TYPE SCHEDULE

WALL TYPE	CONSTRUCTION	WIDTH	HEIGHT	FIRE PROTECTION	RATING	UL#	ACCOUSTICAL	WALL TYPE
A	2x4 WD. STUDS @ 16" O.C. MAX, 5/8" GYP. BD. EA. SIDE	4 3/4"	6" ABV.	NON-RATED			Yes	A
B	2x6 WD. STUDS @ 16" O.C. MAX, 5/8" GYP. BD. EA. SIDE	6 3/4"	6" ABV.	NON-RATED			Yes	B
C	2x4 WD. STUDS @ 16" O.C. MAX, 5/8" TYPE "X" GYP. BD. EA. SIDE	4 3/4"	TO DECK	1-HR. FIRE	U305		Yes	56 C
D	2x6 WD. STUDS @ 16" O.C. MAX, 5/8" TYPE "X" GYP. BD. EA. SIDE	6 3/4"	TO DECK	1-HR. FIRE	U305		Yes	56 D
E	2x4 WD. STUDS @ 16" O.C. MAX, 5/8" GYP. BD. EA. SIDE	4 3/4"	TO DECK	SOUND			Yes	E
F	2x4 WD. STUDS @ 16" O.C. MAX, 5/8" GYP. BD. ONE SIDE	4 1/8"	6" ABV.	NON-RATED			No	F

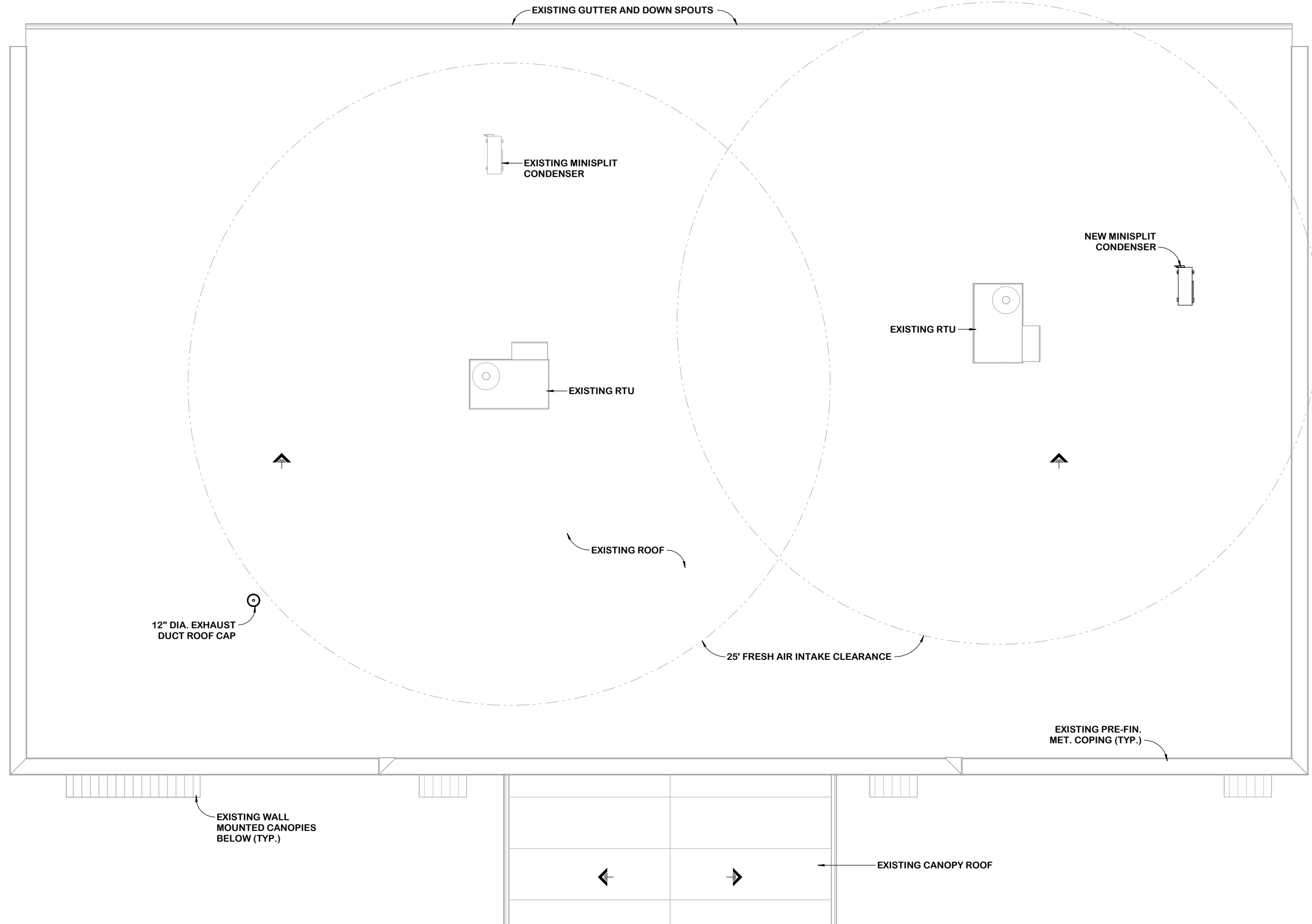


REFLECTED CEILING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE					
MARK	COUNT	DESCRIPTION	LAMP	DIMMABLE	REMARKS
A	32	2' x 4' TROFFER	LED	DIMMABLE	
B	8	6" DIA. RECESSED DOWNLIGHT	LED	DIMMABLE	
C	3	4" SURFACE MOUNTED WRAPAROUND	LED	DIMMABLE	
D	2	PENDANT (RELOCATED)	LED	DIMMABLE	
E	1	CHANDELIER (RELOCATED)	LED	DIMMABLE	
EX	8	EXIT LIGHT	LED	CEILING MOUNTED	
F	16	2' x 4' SURGICAL LAY IN FIXTURE	LED		
G	4	2' x 2' SURGICAL LAY IN FIXTURE	LED		
UCL	18	UNDER CABINET LIGHT	LED		



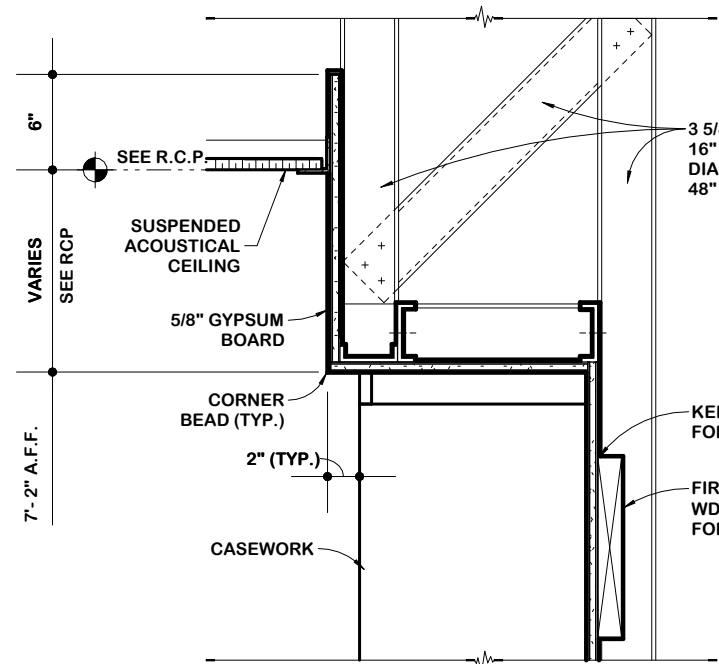
ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

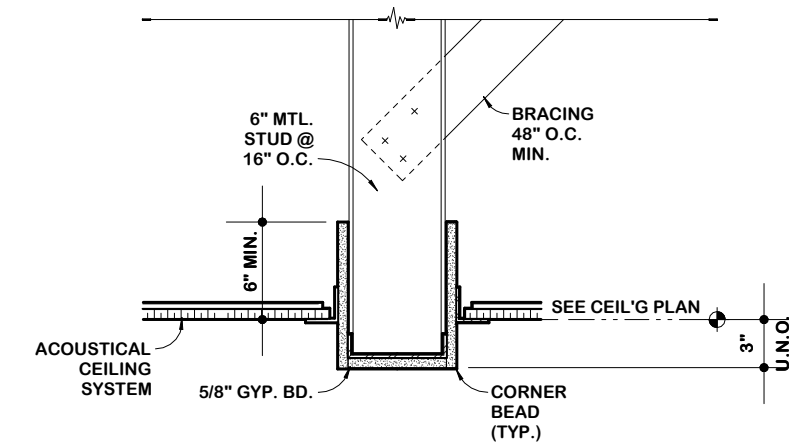
- ALL HALFTONE CEILINGS, LIGHTS, SMOKE DETECTORS, AIR TERMINALS ARE EXISTING TO REMAIN.
- CEILING HEIGHT ABOVE FINISHED FLOOR NOTED ON PLAN.
- CENTER ALL RECESSED LIGHT FIXTURES IN GYP. BD. IN BOTH DIRECTIONS (UNLESS NOTED OTHERWISE).
- CENTER ALL LIGHT FIXTURES, DEVICES & SPRINKLER HEADS IN CEILING TILES.
- CENTER ALL EXIT SIGNS OVER EXIT DOORS (UNLESS NOTED OTHERWISE).

LEGEND

- INDICATES 2' x 4' ACOUSTIC LAY-IN TILE CEILING SYSTEM
- INDICATES 2' x 2' ACOUSTIC LAY-IN TILE CEILING SYSTEM
- INDICATES 2' x 4' LAY-IN LIGHT FIXTURE - RED SLASH DENOTES EMERGENCY FIXTURE
- INDICATES CIRCULAR RECESSED DOWN LIGHT
- INDICATES PENDANT LIGHT
- INDICATES UP/DOWN SCORCE LIGHT
- INDICATES LINEAR SCORCE LIGHT
- INDICATES UNDER CABINET LIGHT
- INDICATES SUPPLY AIR TERMINAL
- INDICATES RETURN AIR TERMINAL
- INDICATES EXHAUST AIR TERMINAL
- INDICATES SINGLE POLE SWITCH
- INDICATES SINGLE POLE SWITCH WITH DIMMER
- INDICATES THREE-WAY SWITCH
- INDICATES EMERGENCY EXIT LIGHT
- INDICATES CEILING MOUNTED SPEAKER
- INDICATES CEILING MOUNTED SMOKE DETECTOR
- INDICATES INDICATOR DOMELIGHT



1
A4
DETAIL : SOFFIT
SCALE: 1" = 1'-0"

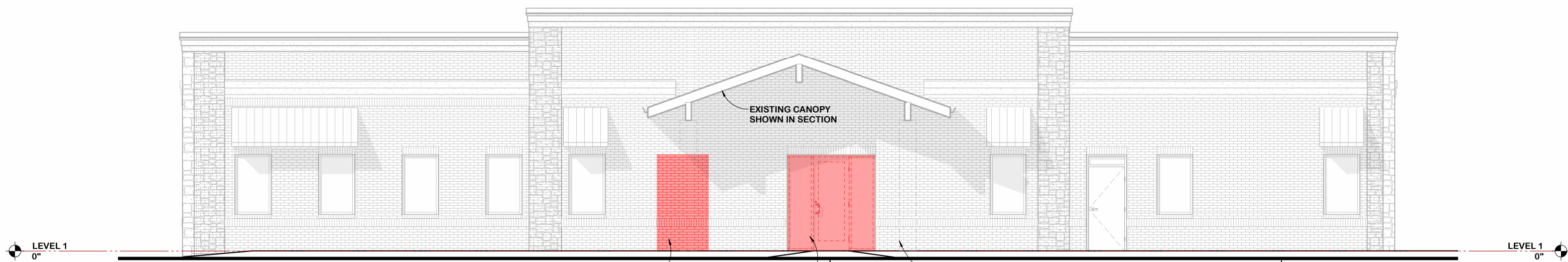


2
A4
DETAIL : BULKHEAD
SCALE: 1" = 1'-0"

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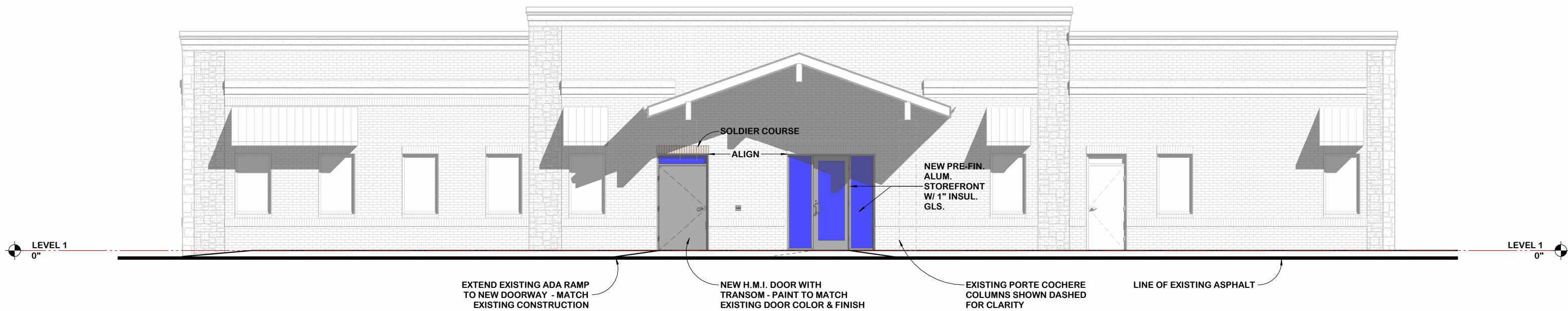
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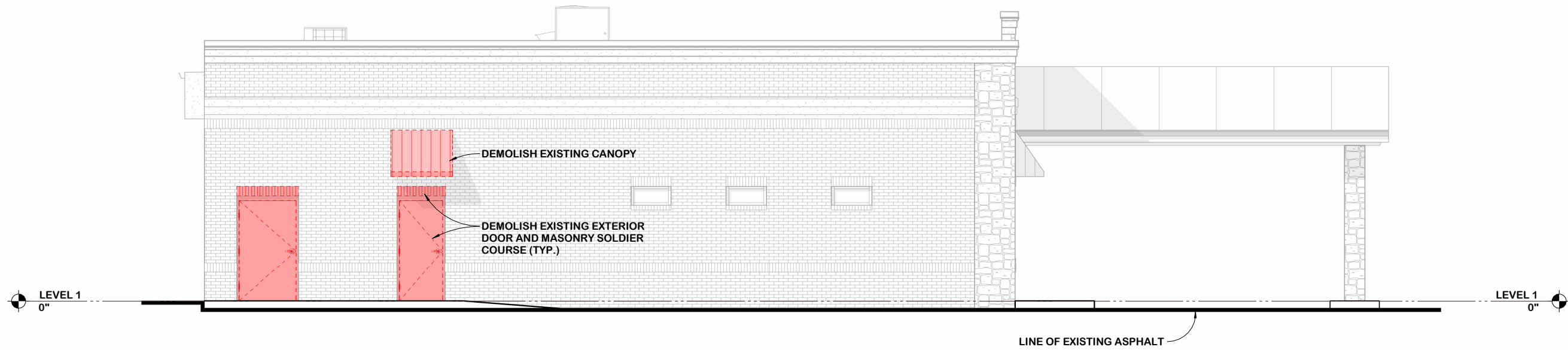
1
A5

SOUTH DEMOLITION ELEVATION
SCALE: 1/8" = 1'-0"



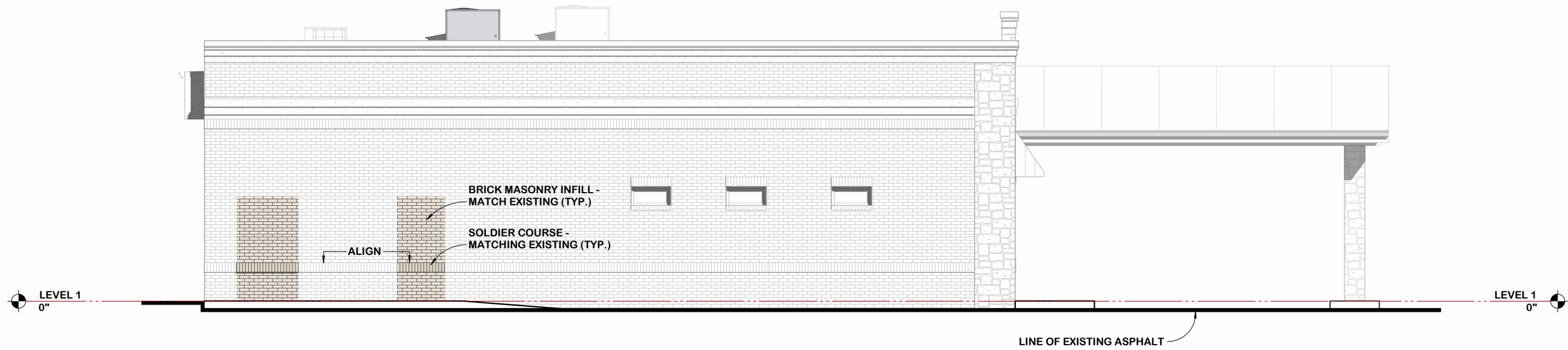
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A5

SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



3
A5

WEST DEMOLITION ELEVATION
SCALE: 1/8" = 1'-0"



4
A5

WEST ELEVATION
SCALE: 1/8" = 1'-0"

Architecture
Strategic Planning
Program Management
Interior Design

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DESIGN DOCUMENTS FOR:

**MIDTOWN
VASCULAR**

**AMBULATORY
SURGICAL
CENTER**

1625 HARDEMAN AVE
MACON, GA 31201



SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
18	NOV 25	DESIGN DEVELOPMENT
11	FEB 26	CONSTRUCTION DOCUMENTS

SHEET TITLE

ELEVATIONS

SHEET NUMBER

A5

DRAWN BY ECF	APPOINTED 30 JUL 25	PROJECT 25119
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FINISH SCHEDULE									
VERIFY ALL FINISHES WITH ARCHITECT BEFORE PURCHASE. ALL FINISHES ARE TO BE SPECIFIED AS CLASS "A"									
NO.	NAME	AREA	FLOOR	BASE	CEILING	WALLS	COMMENTS		NO.
101	LOBBY / WAITING	216 SF	LVT-1	RB-1	ACT-1	PT-1A / MAINSCOTING PAINTED PT-2B	MATCH EXISTING MAINSCOTING		101
102	PASSAGE	100 SF	LVT-1	RB-1	ACT-1	PT-1A			102
103	SOILED UTILITY	51 SF	SV-1	FLASH COVE	ACT-2 / GYP. SOFFIT	PT-1C / WP-1	WP-1 UP TO 38" A.F.F. (ALL WALLS)		103
104	STAFF TLT. / SHR.	89 SF	TL-1	TL-1	ACT-1 / GYP. SOFFIT	PT-1C / TL-2	TL-2 (FULL HEIGHT OF WALLS SHOWN IN PLAN)		104
105	PAT. TLT.	46 SF	TL-1	TL-1	ACT-1	PT-1C / TL-2	TL-2 (FULL HEIGHT OF WALLS SHOWN IN PLAN)		105
106	PRE/POST PROCEDURE	444 SF	SV-1	FLASH COVE	ACT-1 / GYP. SOFFIT	PT-1A / WP-1	WP-1 UP TO 38" A.F.F. (AT WALLS INDICATED ON FINISH PLAN)		106
107	BAY#1	81 SF	SV-1	FLASH COVE	ACT-1	PT-1A / WP-1	WP-1 UP TO 38" A.F.F. (AT WALLS INDICATED ON FINISH PLAN)		107
108	BAY#2	81 SF	SV-1	FLASH COVE	ACT-1	PT-1A / WP-1	WP-1 UP TO 38" A.F.F. (AT WALLS INDICATED ON FINISH PLAN)		108
109	BAY#3	81 SF	SV-1	FLASH COVE	ACT-1	PT-1A / WP-1	WP-1 UP TO 38" A.F.F. (AT WALLS INDICATED ON FINISH PLAN)		109
110	BAY#4	82 SF	SV-1	FLASH COVE	ACT-1	PT-1A / WP-1	WP-1 UP TO 38" A.F.F. (AT WALLS INDICATED ON FINISH PLAN)		110
111	CLEAN SUPPLY	71 SF	SV-1	FLASH COVE	ACT-1	PT-1A / WP-1	WP-1 UP TO 38" A.F.F. (ALL WALLS)		111
112	NURSE STATION	64 SF	SV-1	FLASH COVE	ACT-1 / GYP. SOFFIT	PT-1A			112
113	PASSAGE	257 SF	SV-2	FLASH COVE	ACT-1 / GYP. SOFFIT	PT-1A / WP-1	WP-1 UP TO 38" A.F.F. (ALL WALLS)		113
114	STERILE SUPPLY	61 SF	SV-2	FLASH COVE	ACT-1	PT-1A / WP-1	WP-1 UP TO 38" A.F.F. (ALL WALLS)		114
115	PROCEDURE #1	300 SF	SV-2 & SV-3	FLASH COVE	GYP.	PT-1C / WP-1	WP-1 UP TO 38" A.F.F. (ALL WALLS)		115
116	PROCEDURE #2	300 SF	SV-2 & SV-3	FLASH COVE	GYP.	PT-1C / WP-1	WP-1 UP TO 38" A.F.F. (ALL WALLS)		116
117	JAN.	10 SF	SV-2	FLASH COVE	GYP.	PT-1C / WP-1	WP-1 UP TO 38" A.F.F. (AT WALLS INDICATED ON FINISH PLAN)		117
118	CLEAN UTILITY	65 SF	SV-2	FLASH COVE	ACT-1 / GYP. SOFFIT	PT-1C / WP-1	WP-1 UP TO 38" A.F.F. (ALL WALLS)		118
119	DECON. / SOILED UTILITY	106 SF	SV-2	FLASH COVE	GYP.	PT-1C / WP-1	WP-1 UP TO 38" A.F.F. (ALL WALLS)		119
120	STORAGE	141 SF	VCT-1	RB-1	ACT-1	PT-1C			120
121	MEDGAS	8 SF	VCT-1	RB-1	ACT-1	PT-1A			121
122	PASSAGE	90 SF	LVT-1	RB-1	ACT-1	PT-1A			122
123	PASSAGE	107 SF	LVT-1	RB-1	ACT-1	PT-1A			123
124	CONSULT	126 SF	EXIST.	EXIST.	EXIST.	EXIST.			124
125	JAN.	49 SF	VCT-1	RB-1	EXIST.	PT-1C / WP-1	WP-1 UP TO 38" A.F.F. (AT WALLS INDICATED ON FINISH PLAN)		125
126	RECEPTION	86 SF	CPT-1	RB-1	EXIST.	PT-1A / WP-1			126

FINISH SPECIFICATIONS									
VERIFY ALL FINISHES WITH ARCHITECT BEFORE PURCHASE. ALL FINISHES ARE TO BE SPECIFIED AS CLASS "A"									
MARK	MANUFACTURER	STYLE / MODEL	COLOR	SIZE / DIMENSIONS	COMMENTS				MARK
ACOUSTICAL CEILING TILE									
ACT-1	ARMSTRONG	ULTIMA 1911 (BEVELED REGULAR 15/16)	WHITE	24" X 24"	GRID : PRELUDE 15/16" EXPOSED TEE				ACT-1
ACT-2	ARMSTRONG	CLEAN ROOM VL 858 (SQUARE LAY IN 15/16)	WHITE	24" X 24"	GRID : PRELUDE 15/16" EXPOSED TEE				ACT-2
CARPET TILE									
CPT-1	MANNINGTON COMMERCIAL	VIVENDI		24" X 24"	INSTALL: MONOLITHIC				CPT-1
LUXURY VINYL TILE									
LVT-1	MANNINGTON COMMERCIAL	SPACIA / STONE	CERAMIC LIGHT S85S1565	18" X 18"	INSTALL:				LVT-1
PLASTIC LAMINATE									
PL-1	FORMICA	4924-NG	GREIGE SOFTWOOD		VERTICAL GRAIN INSTALLATION				CPT-1
PORCELAIN TILE									
TL-1	TILEBAR	NASHVILLE	TBD; MATTE, PORCELAIN	12" X 24"	GROUT: TBD ; INSTALL: VERTICAL 1/3 OFFSET				TL-1
TL-2	TILEBAR	DREAMSTONE DOLOMITE	TBD; POLISHED PORCELAIN	12" X 24"	GROUT: TBD ; INSTALL: VERTICAL 1/3 OFFSET				TL-2
TL-3	TILEBAR	DREAMSTONE DOLOMITE	TBD; POLISHED PORCELAIN	RAILROAD MOSAIC	GROUT: TBD				TL-3
RUBBER BASE									
RB-1	JOHNSONITE TARKETT	TRADITIONAL	TBD	4" H					RB-1
SHEET VINYL									
SV-1	MANNINGTON COMMERCIAL	REALITIES III	TBD						SV-1
SV-2	MANNINGTON COMMERCIAL	BIOSPEC MD	SNOWY OWL 15514	66"					SV-2
SV-3	MANNINGTON COMMERCIAL	BIOSPEC MD	FAWN 15419	66"					SV-3
SV-4	MANNINGTON COMMERCIAL	BIOSPEC MD	CHERRY TOMATO 15508	66"					SV-4
SOLID SURFACE									
SS-1	CORIAN	EASED EDGE	CLAM SHELL						SS-1
STAIN									
ST-1	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING						ST-1
VINYL COMPOSITION TILE									
VCT-1	ARMSTRONG FLOORING	STANDARD EXCELON IMPERIAL TEXTURE	TBD	12"X12"					VCT-1
WALL PROTECTION									
WP-1	CONSTRUCTION SPECIALTIES	ACROVYN WALLCOVERING .040"	PEARL 934	4' X 8' X .040"					WP-1

PAINT SPECIFICATIONS									
VERIFY ALL FINISHES WITH ARCHITECT BEFORE PURCHASE. ALL FINISHES ARE TO BE SPECIFIED AS CLASS "A"									
MARK	MANUFACTURER	PRODUCT	COMMENTS						MARK
PAINT COLOR									
PT-1	SHERWIN WILLIAMS	SW 9166 DRIFT OF MIST	MAIN COLOR AND FRAME COLOR						PT-1
PT-2	SHERWIN WILLIAMS	TBD	DOOR FRAME COLOR						PT-2
PT-3	SHERWIN WILLIAMS	SW 7007 CEILING BRIGHT WHITE	CEILING COLOR						PT-3
PAINT FINISH									
A	SHERWIN WILLIAMS	LATEX EGGSHELL FINISH; ZERO VOC	WALL FINISH						A
B	SHERWIN WILLIAMS	SEMI GLOSS FINISH; ZERO VOC	DOOR FRAME AND TRIM FINISH						B
C	SHERWIN WILLIAMS	WATERBORNE ONE-PART EPOXY, EGGSHELL FINISH	WET AREA FINISH						C

FINISH NOTES

- GENERAL:**

 - REFER TO FINISH PLANS FOR LOCATIONS OF SPECIFIC FINISHES AND ACCENT WALLS.
 - COORDINATE WITH INTERIOR ELEVATIONS FOR FINISH LOCATIONS
 - REFER TO REFLECTED CEILING PLANS FOR COORDINATION OF CEILING MATERIALS AND FINISHES.
 - THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE ARCHITECTURAL AND FINISH PLANS AND SHALL NOTIFY THE ARCHITECT OF ANY INCONSISTENCY AND OBTAIN CLARIFICATION PRIOR TO PROCEEDING WITH AREA IN QUESTION.
 - ITEMS REQUIRING FINISH SELECTIONS THAT DO NOT APPEAR ON DRAWINGS SHALL BE SELECTED BY ARCHITECT FROM SHOP DRAWINGS SUBMITTALS AND / OR SAMPLES.
 - PROVIDE A SEAMLESS TRANSITION AND UNIFORM APPEARANCE AT JUNCTION OF NEW AND EXISTING FINISHES. ANY PRODUCTS AFFECTED BY CONSTRUCTION AND DEMOLITION SHALL BE RETURNED TO "LIKE-NEW" CONDITION.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXISTING FINISHES WHERE NEW FINISHES ARE SPECIFIED AND TO PREPARE SUBSTRATE TO RECEIVE NEW FINISHES PER MANUFACTURER'S RECOMMENDATIONS.
 - ALL FINISHES "TO MATCH EXISTING STANDARD" TO BE FIELD VERIFIED W/ EXACT FINISH LOCATED IN SIMILAR APPLICATION IN THE EXISTING SPACE.

FLOORING:

 - UNLESS OTHERWISE NOTED, ALL FLOOR MATERIAL CHANGES SHALL OCCUR AT THE CENTER LINE OF THE DOOR OR OPENING. PROVIDE APPROPRIATE TRANSITION STRIP AT ELEVATION CHANGES.
 - ALL FLOOR BEAM COLORS ARE TO MATCH THE SURROUNDING FLOORING FINISH COLOR. CONFIRM COLORS WITH ARCHITECT BEFORE INSTALLATION BY PROVIDING PHYSICAL SAMPLES DURING THE SUBMITTAL PROCESS.
- BASE:**

 - RUBBER BASE AND FLASH COVE BASE SHALL BE TRIMMED AS REQUIRED TO FIT CASEWORK / MILLWORK TOE SPACE / BASE, INCLUDING ADA CABINET DOORS AT SINK LOCATIONS.
 - CONTOURED BASES ARE TO BE MITERED AT CORNERS.

WALLCOVERING & PAINTED SURFACES:

 - ALL PAINTED SURFACES SHOULD HAVE MINIMUM ONE PRIMER COAT AND TWO FINISH COATS AS RECOMMENDED BY MANUFACTURER.
 - WHERE TOUCH-UP PAINTING IS REQUIRED, REPAINT THE ENTIRE WALL TO MAINTAIN A CONSISTENT COLOR.
 - THE VERTICAL AND UNDERSIDE SURFACE OF ALL BULKHEADS/SOFFITS TO MATCH COLOR AND FINISH OF THE WALL IT IS ON. IN AREAS WHERE WALLS ARE VINYL WALLCOVERING, THE VERTICAL AND UNDERSIDE SURFACE OF THE BULKHEAD/SOFFIT SHOULD BE THE SAME.
 - DO NOT INSTALL WALLCOVERING ON EXTERIOR-FACING WALLS. ALL EXTERIOR-FACING WALLS TO BE PAINTED.
 - ALL GRILLES AND DIFFUSERS LOCATED ON DRYWALL SURFACES SHALL BE PAINTED TO MATCH ADJACENT DRYWALL.
 - FIRE EXTINGUISHER CABINETS AND ELECTRICAL PANELS IN FINISHED SPACES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR, UNLESS LOCAL CODES REQUIRE OTHERWISE.

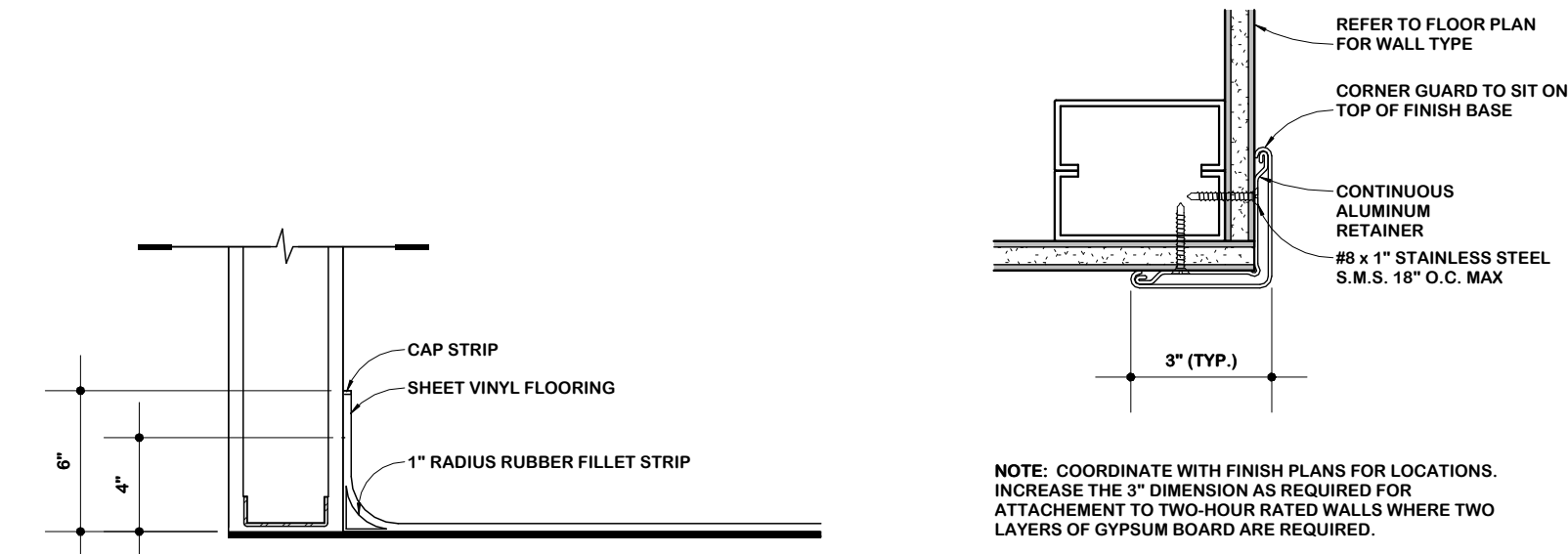
CAULKING:

 - ALL CAULKING COLORS ARE TO MATCH THE SURROUNDING FINISH COLOR. CONFIRM COLORS WITH ARCHITECT BEFORE INSTALLATION BY PROVIDING PHYSICAL SAMPLES DURING THE SUBMITTAL PROCESS.
 - CAULK ALL DOOR FRAMES TO FINISH FLOOR WITH SEALANT TO FLOORING.

ABBREVIATIONS

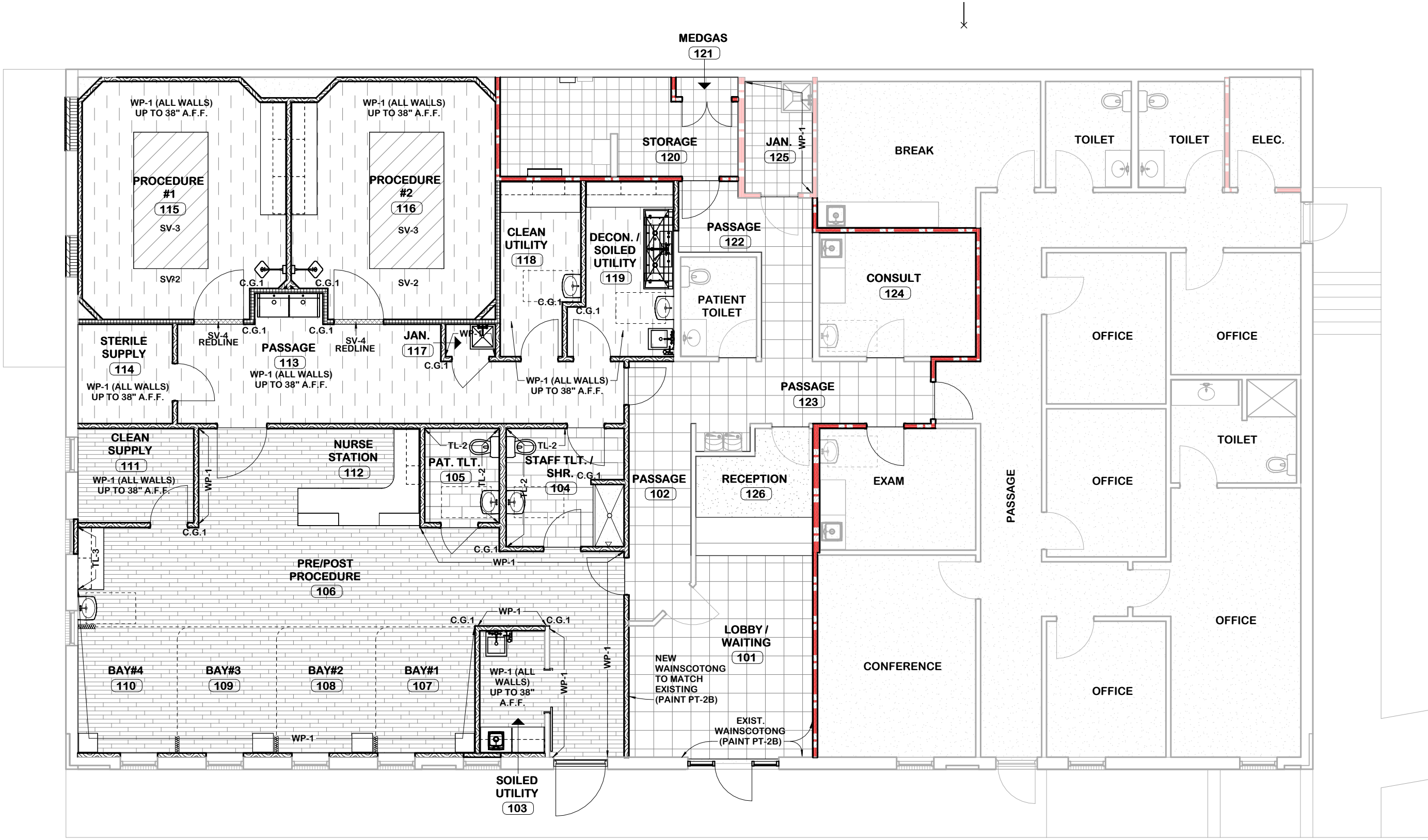
FINISHES	
ACT	ACOUSTICAL CEILING TILE
SV	SHEET VINYL
CPT	CARPET
GYP	GYPSON
HWV	HEAT WELDED VINYL
LVT	LUXURY VINYL TILE
PL	PLASTIC LAMINATE
PT	PAINT
RB	RUBBER BASE
SS	SOLID SURFACE
TL	TILE
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALLCOVERING
GENERAL	
B.G.	BUMPER GUARD
C.G.	CORNER GUARD
C.R.	CRASH RAIL
H.R.	HAND RAIL
W.P.	WALL PROTECTION

CORNER GUARD SCHEDULE					
MARK	COUNT	DESCRIPTION	MANUFACTURER	MODEL	COLOR
C.G.1	12	ACROVYN SURFACE MOUNT CORNER GUARD (FULL HEIGHT)	CONSTRUCTION SPECIALTIES	SM-20AN	PEARL #934



COVE BASE DETAIL
SCALE : 1/12" = 1'-0"

CORNER GUARD
SCALE : 3" = 1'-0"



FINISH PLAN
SCALE : 1/8" = 1'-0"



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AMBULATORY SURGICAL CENTER

1625 HARDEMAN AVE
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LEGEND

SV-1		
C.G.		CORNER GUARD (SEE DETAIL)
EXIST.		
H.R.-1		
C.R.-1		
NOTE: SEE FINISH SCHEDULE FOR MORE DETAILED INFORMATION		

SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
18	NOV 25	DESIGN DEVELOPMENT
11	FEB 26	CONSTRUCTION DOCUMENTS

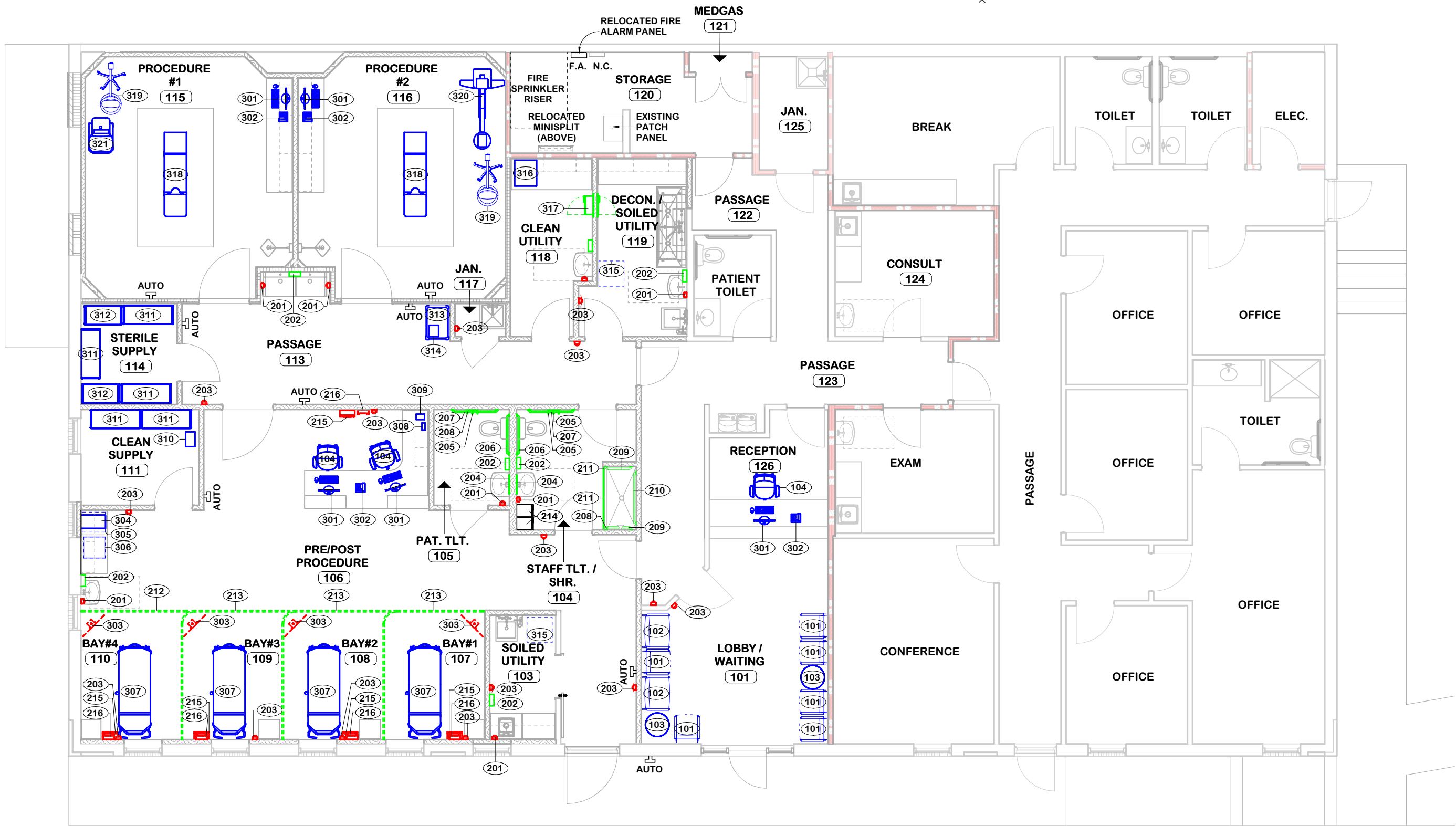
FINISH PLAN & FINISH SPECIFICATIONS

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FURNITURE SCHEDULE									
NO.	COUNT	DESCRIPTION	MANUFACTURER	MODEL	PROVIDER	RELOCATED	REMARKS		NO.
101	6	WAITING CHAIR			OFOI	No			101
102	2	BARiatric WAITING CHAIR			OFOI	No			102
103	2	END TABLE			OFOI	No			103
104	3	TASK CHAIR			OFOI	No			104
FIXTURES SCHEDULE									
NO.	COUNT	DESCRIPTION	MANUFACTURER	MODEL	PROVIDER	RELOCATED	REMARKS		NO.
201	8	SOAP DISPENSER			OFCI	No	WALL MOUNTED		201
202	7	PAPER TOWEL DISPENSER	BOBRICK OR EQUAL	B-262 OR EQUAL	OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		202
203	15	ANTIBACTERIAL GEL DISPENSER			OFCI	No	WALL MOUNTED		203
204	2	WALL MIRROR (18" X 36")	BRADLEY OR EQUAL	B-290 SERIES OR EQUAL	OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		204
205	2	TOILET TISSUE DISPENSER	BRADLEY OR EQUAL	B-9547 OR EQUAL	OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		205
206	2	36" GRAB BAR	BOBRICK OR EQUAL	B-6806 SERIES OR EQUAL	OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		206
207	2	42" GRAB BAR	BOBRICK OR EQUAL	B-6806 SERIES OR EQUAL	OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		207
208	3	18" VERTICAL GRAB BAR	BOBRICK OR EQUAL	B-6806 SERIES OR EQUAL	OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		208
209	2	24" GRAB BAR	BOBRICK OR EQUAL	B-6806 SERIES OR EQUAL	OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		209
210	1	48" GRAB BAR	BOBRICK OR EQUAL	B-6806 SERIES OR EQUAL	OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		210
211	1	60" SHOWER CURTAIN ROD & CURTAIN	BOBRICK OR EQUAL	B207 OR EQUAL / 204-S CURTAIN OR EQUAL	OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		211
212	1	CUBICLE CURTAIN TRACK AND CURTAIN	CONSTRUCTION SPECIALTIES	STANDARD TRACK 6062 (WHITE) / GEN. CARRIER 1075 / CURTAIN: TBD	OFCI	No			212
213	3	CUBICLE CURTAIN TRACK AND CURTAIN	CONSTRUCTION SPECIALTIES	STANDARD TRACK 6062 (WHITE) / GEN. CARRIER 1075 / CURTAIN: TBD	OFCI	No			213
214	2	LOCKER (3 H)	SALSBURY INDUSTRIES	4316SSW-BH (6'H X 15"D X 1'W)	VERIFY	No	INCLUDE 1 SIDE PANEL & SLOPED TOPS		214
215	5	SHARPES CONTAINER			OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		215
216	5	GLOVE BOX DISPENSER			OFCI	No	WALL MOUNTED / PROVIDE BLOCKING		216
EQUIPMENT SCHEDULE									
NO.	COUNT	DESCRIPTION	MANUFACTURER	MODEL	PROVIDER	RELOCATED	REMARKS		NO.
301	5	COMPUTER WORKSTATION			OFOI	No			301
302	4	PHONE - DESK			OFOI	No			302
303	4	CEILING MOUNTED TV			OFCI	No			303
304	1	ICE MAKER - COUNTERTOP			OFOI	No			304
305	1	UNDER COUNTER REFRIGERATOR			OFOI	No			305
306	1	BLANKET WARMER	AMSCO	M70WC-E02-34283-021	OFOI	No			306
307	4	STRETCHER			OFOI	No			307
308	1	PORTABLE PATIENT MONITOR		JR2000B	OFOI	No			308
309	1	BLOOD PRESSURE MONITOR	WELCH ALLYN	45070201500905440	OFOI	No			309
310	1	PORTABLE VACUUM	SCHUCCO SUNCTION	57111301089501	OFOI	No			310
311	5	METAL SHELF			OFOI	No			311
312	2	METAL SHELF			OFOI	No			312
313	1	CRASH CART			OFOI	No			313
314	1	PHYSIO CONTROL LIFEPAK 1000 AED	STRYKER	100043978034	OFOI	No			314
315	2	LINEN HAMPER			OFOI	No			315
316	1	AUTOCCLAVE	TUTTNAUER	EZ11-PLUS/21110589	OFOI	No			316
317	1	STAINLESS STEEL PASS-THROUGH CHAMBER	TERRA UNIVERSAL	2638-708-2	OFCI	No			317
318	2	PROCEDURE TABLE		ID100-41270041	OFOI	No			318
319	2	MOBILE PROCEDURE LIGHT			OFOI	No			319
320	1	C-ARM	VERADUS	000678/718130	OFOI	No			320
321	1	ULTRASOUND MACHINE	GE	LOGIQp9	OFOI	No			321



FURNITURE, FIXTURES & EQUIPMENT PLAN

SCALE: 1/8" = 1'-0"

NOTE: PROVIDE BLOCKING AT ALL WALL MOUNTED EQUIPMENT (P.T. WHERE REQUIRED)

SCHEDULE ABBREVIATIONS

	OFCI : CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
	OFOI : OWNER FURNISHED / OWNER INSTALLED
	OFCI : OWNER FURNISHED / CONTRACTOR INSTALLED
	OFOI : CONTRACTOR FURNISHED / OWNER INSTALLED
	VPVI : VENDOR FURNISHED / VENDOR INSTALLED

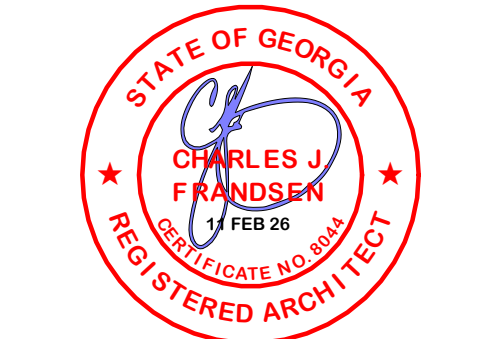
F.F. & E. GENERAL NOTES

1. ALL CABLE MANAGEMENT TRAYS, AND GROMMETS TO BE CONTRACTOR FURNISHED / CONTRACTOR INSTALLED. SEE CASEWORK ELEVATIONS FOR LOCATIONS. SPECIFICATIONS AS FOLLOWS:
CABLE MANAGEMENT TRAY:
PRODUCT: BAL T CABLE MANAGEMENT TRAY
VENDOR: GLOBAL INDUSTRIAL
MODEL#: WBB621630
SIZE: 21 1/2" WIDTH
GROMMET:
PRODUCT: XG FLIP-TOP® SERIES - 3" HOLE DESK GROMMET
VENDOR: MCKEY
MODEL#: XG3-3
COLOR: WHITE
2. MEETING BETWEEN OWNER, CONTRACTOR, AND ARCHITECT TO OCCUR BEFORE INSTALLATION FOR COORDINATION OF CONTRACTOR INSTALLED ITEMS. PROVIDE BLOCKING FOR ALL WALL MOUNTED ITEMS.
3. ALL ITEMS PROVIDED BY CONTRACTOR TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE.

Architecture
Strategic Planning
Program Management
Interior Design

FRANDSEN ARCHITECTS, PC

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Dacula, GA 30019
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DESIGN DOCUMENTS FOR :

MIDTOWN VASCULAR

AMBULATORY SURGICAL CENTER

1625 HARDEMAN AVE
MACON, GA 31201



SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
18 NOV 25		DESIGN DEVELOPMENT
11 FEB 26		CONSTRUCTION DOCUMENTS

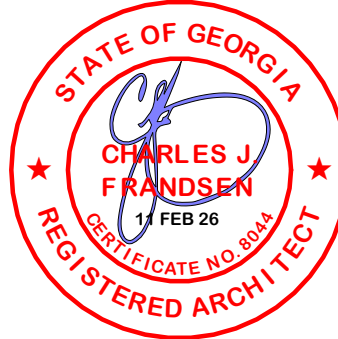
SHEET TITLE
FURNITURE, FIXTURE & EQUIP. PLANS

SHEET NUMBER
A7

DRAWN BY
Author

APPOINTED
30 JUL 25

PROJECT
25119



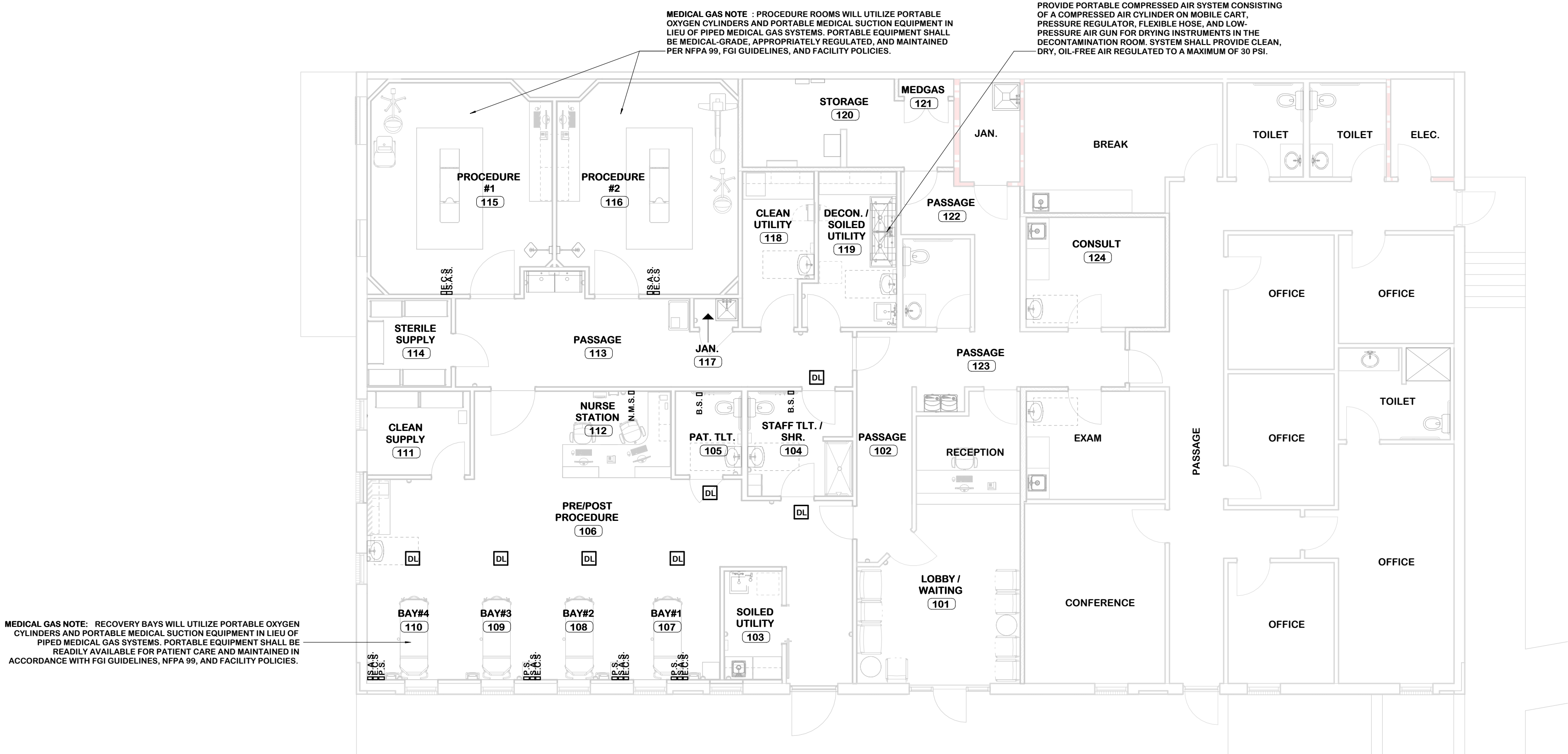
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DESIGN DOCUMENTS FOR :

MIDTOWN VASCULAR

AMBULATORY SURGICAL CENTER

1625 HARDEMAN AVE
MACON, GA 31201



MEDICAL GAS LEGEND

- MEDICAL GAS - MEDICAL AIR - MOUNT 60" A.F.F. TO CENTER
- MEDICAL GAS - OXYGEN - MOUNT 60" A.F.F. TO CENTER
- MEDICAL GAS - VACUUM - MOUNT 60" A.F.F. TO CENTER
- MEDICAL SLIDE - MOUNT 60" A.F.F. TO CENTER (48" A.F.F. IF MOUNTED CENTERED BELOW VACUUM)
- MEDICAL GAS - WASTE ANESTHESIA GAS DISPOSAL - MOUNT 60" A.F.F. TO CENTER

NOTE: COORDINATE FINAL OUTLET LOCATIONS WITH ELEVATIONS

NURSE CALL LEGEND

- PATIENT STATION - MOUNT 54" A.F.F. TO CENTER (PULL CORD TO EXTEND WITHIN 2" OF FLR.)
- BATH STATION - MOUNT 54" A.F.F. TO CENTER (PULL CORD TO EXTEND WITHIN 2" OF FLR.)
- STAFF ASSISTANCE STATION - MOUNT AT 54" A.F.F. TO CENTER
- EMERGENCY CALL STATION - MOUNT AT 54" A.F.F. TO CENTER
- NURSE MASTER STATION - SEE ELEVATIONS FOR HEIGHT
- DUTY STATION - MOUNT AT 54" A.F.F. TO CENTER
- TELEMETRY ACCESS POINT (COORD. W/ VENDOR DWGS.)
- INDICATOR DOME LIGHT CEILING MOUNTED
- JUNCTION BOX

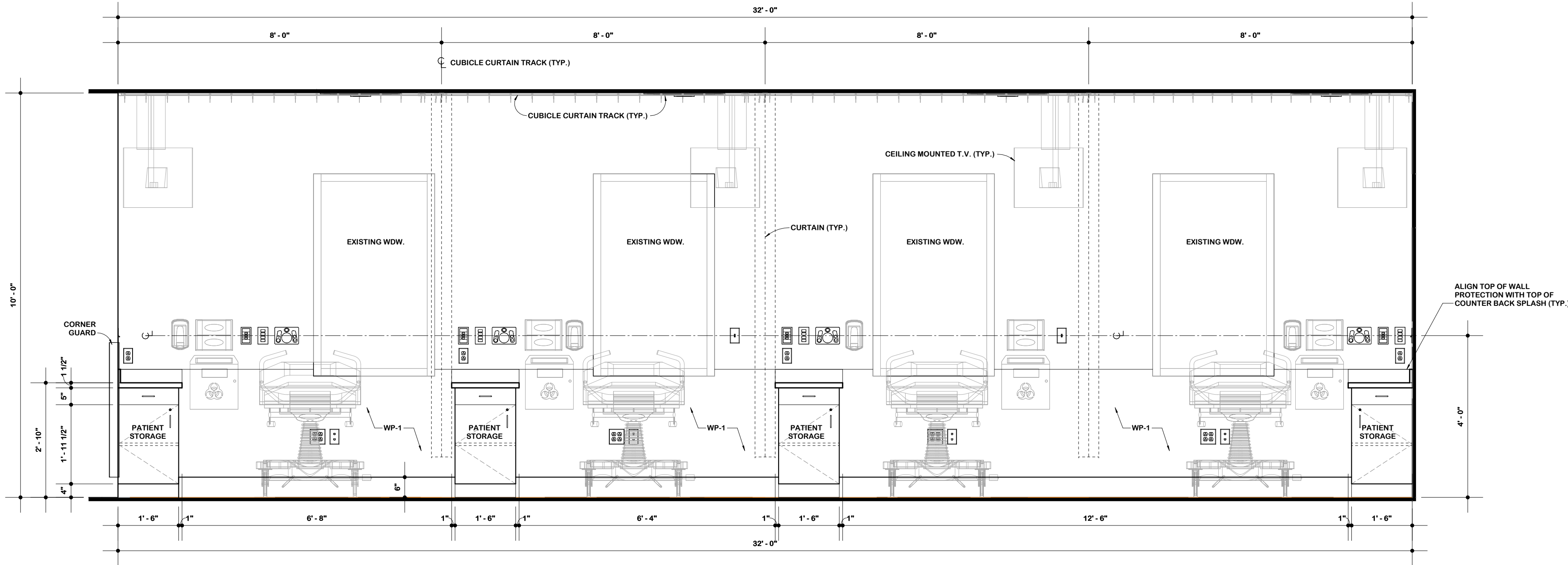
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REV. NO.	DATE	DESCRIPTION
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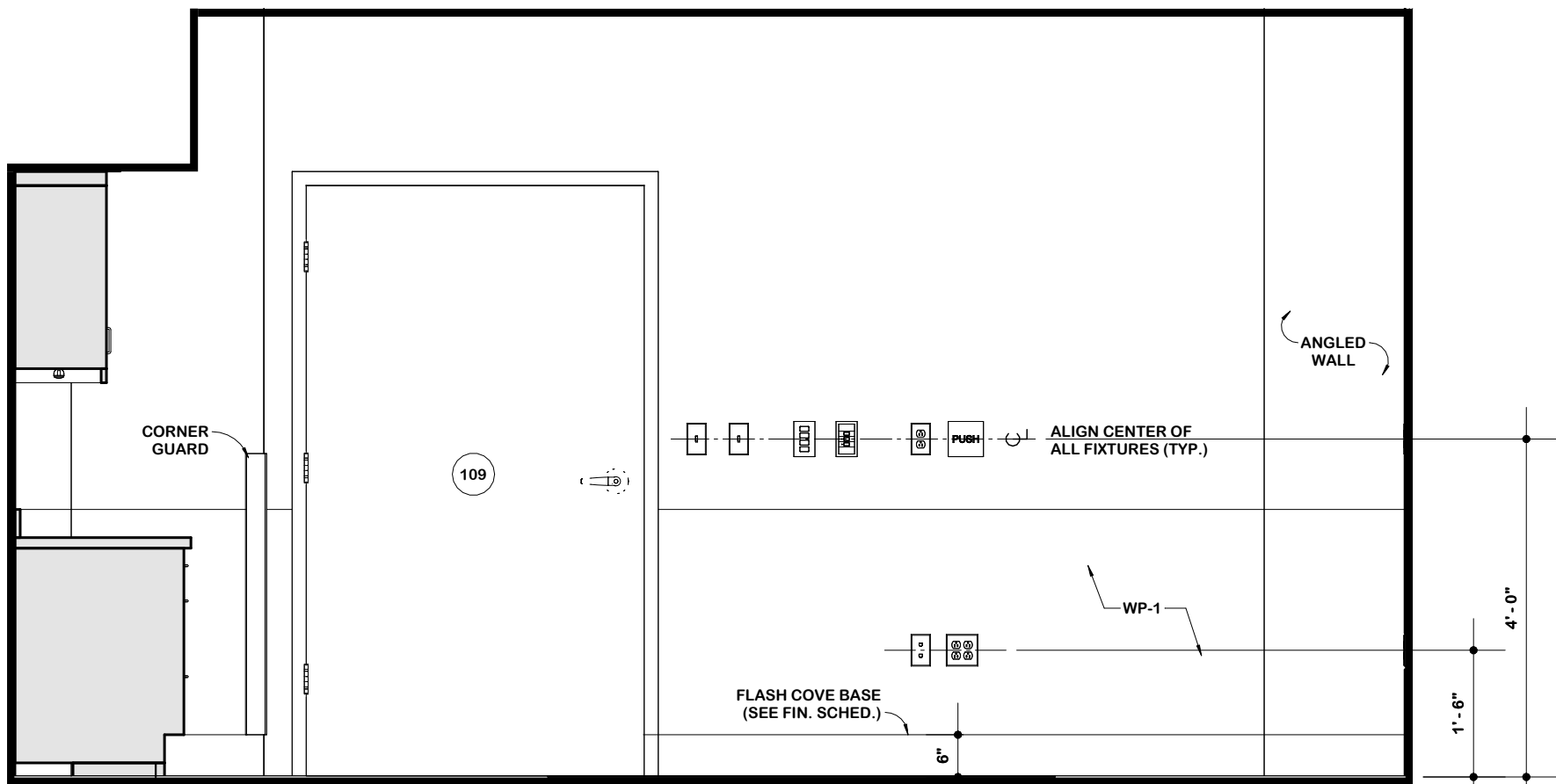
**MEDICAL GAS &
NURSE CALL
PLAN**

SHEET NUMBER

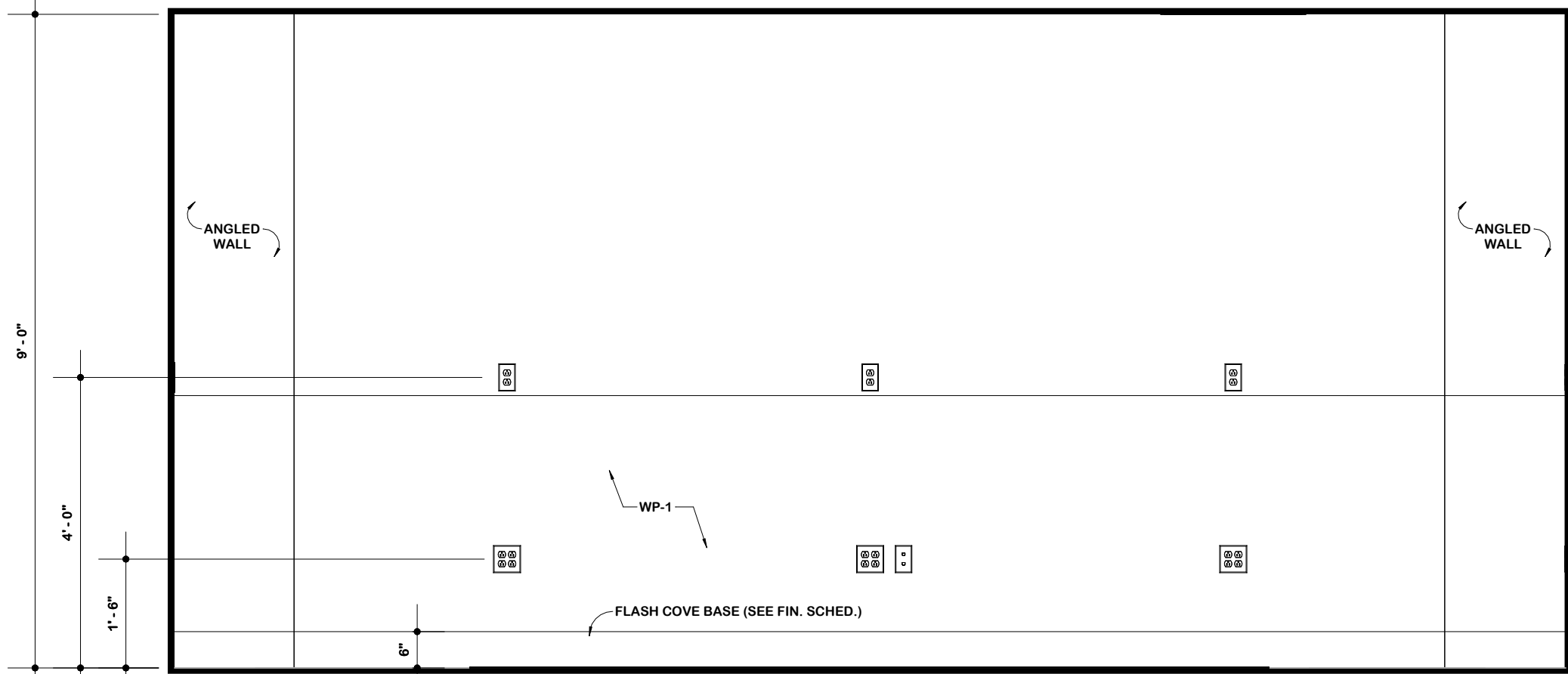
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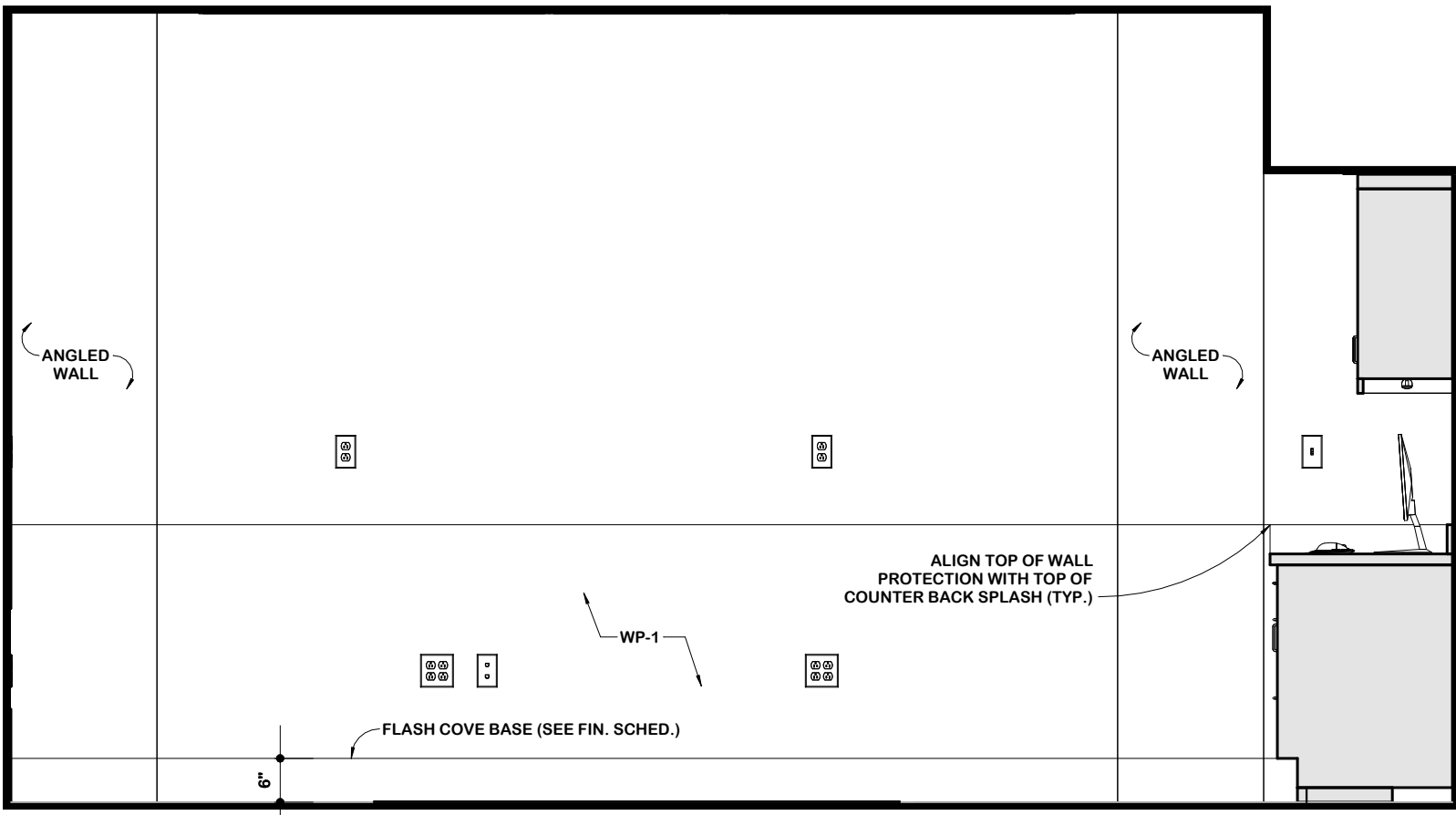
1
A9
INTERIOR ELEVATION
BAYS
SCALE: 1/2" = 1'-0"



2
A9
INTERIOR ELEVATION
OR SOUTH WALL
SCALE: 1/2" = 1'-0"



3
A9
INTERIOR ELEVATION
OR SIDE WALL
SCALE: 1/2" = 1'-0"



4
A9
INTERIOR ELEVATION
OR NORTH WALL
SCALE: 1/2" = 1'-0"

SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
18 NOV 25		DESIGN DEVELOPMENT
11 FEB 26		CONSTRUCTION DOCUMENTS

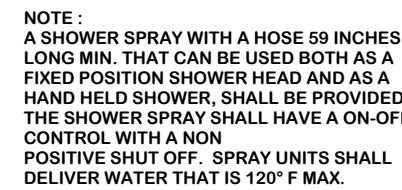
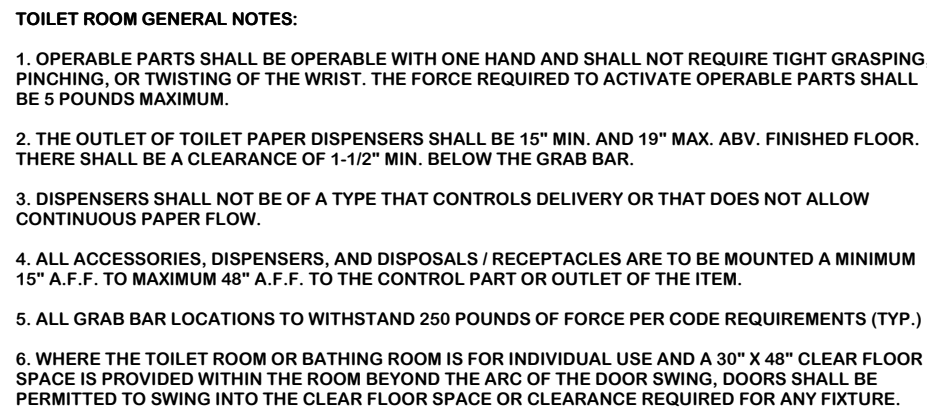
SHEET TITLE

**INTERIOR
ELEVATIONS**

SHEET NUMBER

A9

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SHEET TITLE

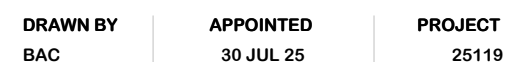
SHEET NUMBER

A10

DRAWN BY	APPOINTED	PROJECT
BAC	30 JUL 25	25119



- SHEET TITLE**





SHEET NUMBER
A13

DOOR SCHEDULE

[illegible]

DOOR TYPE NOTES

1. DIMENSIONS ARE SIZE OF OPENING AFTER STOPS ARE INSTALLED.
2. DOOR CONSTRUCTION SHALL MEET REQUIRED RATINGS SHOWN ON DRAWINGS AND AS SPECIFIED AND
REQUIRED BY THE GOVERNING CODES.- 3. WIDTH AND HEIGHT INDICATED IS NOMINAL.
- 4. GLASS IN FIRE RATED DOORS SHALL BE FIRE PROTECTION RATED GLAZING.
- 5. ALL GLASS IN NON-RATED DOORS SHALL BE 1/4" TEMPERED GLASS, UNLESS INDICATED OTHERWISE.
- 6. MAXIMUM 1296 SQ. IN. GLASS PER LITE "C" RATED LABEL DOORS.
- 7. MAXIMUM 100 SQ. IN. GLASS PER LITE "P" RATED LABEL DOORS.
- 8. COORDINATE SIZE OF SIZE OF OPENING BETWEEN INSTALLED STOPS.
- 9. TOP AND BOTTOM LITE DIMENSION SHALL BE IDENTICAL TO LOCATION AND SIZE(S) OF INTERMEDIATE RAILS WITH HARDWARE MOUNTING REQUIREMENTS.
- 10. ALL METAL DOORS IN EXTERIOR LOCATIONS SHALL BE INSULATED AND D/P GALVANIZED, FULLY WELDED TO FRAME AND CONSTRUCTION.
- 11. COORDINATE DOORS TO RECEIVE UNDERCUTS, AND UNDERCUT SIZE WITH MECHANICAL CLOSERS ATTACHED TO DOORS, ALLOW FOR CLEARANCE FROM MECHANICAL CLOSERS.
- 12. ALL CLOSERS ARE TO BE THRU-BOLT ATTACHED TO THE DOOR PANEL.

LEGEND:

SCW : SOLID-CORE WOOD
H.M. : HOLLOW METAL
H.M.I. : HOLLOW METAL INSULATED
PT. : PAINT
PL: PLASTIC LAMINATE
FF: FACTORY FINISH

HARDWARE (HDW.) SETS:

"HDW-1" : PASSAGE SET
 "HDW-2" : PRIVACY SET
 "HDW-3" : CLASSROOM LOCK
 "HDW-4" : ELECTRIC STRIKE (BUTTON AT FRONT DESK)
 "HDW-5" : KEYPAD LOCK (WITH EMERGENCY RELEASE)
 "HDW-6" : AUTO DOOR OPENER (WITH HAND WAVE PLATE)
 "HDW-7" : AUTO DOOR OPENER (WITH HAND WAVE PLATE) &
 PANIC / FIRE EXIT HDWR. ON INTERIOR SIDE &
 KEYPAD LOCK ON EXTERIOR SIDE

DOOR HARDWARE:

THE INTENTION IS TO MATCH
EXISTING BUILDING DOOR
HARDWARE STANDARDS TO
MINIMIZE HAVING MULTIPLE DOOR
MANUFACTURER SUPPLIES TO
MAINTAIN

DOOR FINISHES

THE INTENTION IS TO MATCH
EXISTING BUILDING DOOR
FINISH STANDARDS

DOOR RATING NOTES

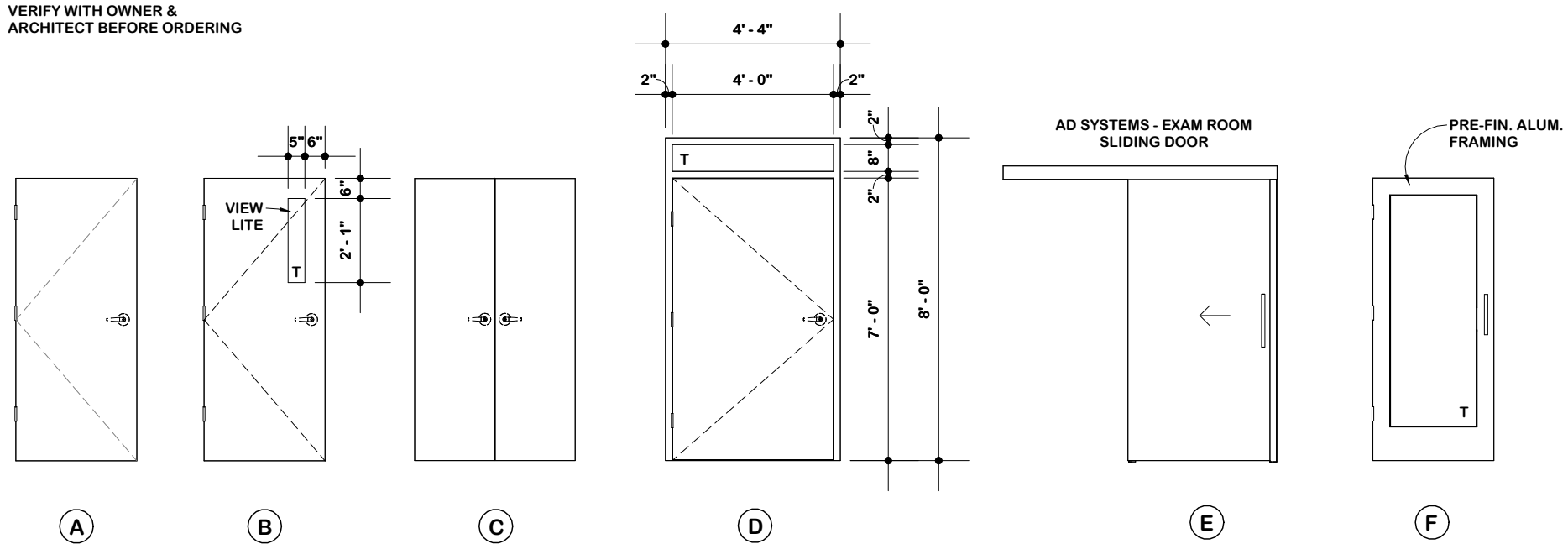
1. THE CONTRACTOR SHALL COORDINATE WALL AND DOOR RATINGS. NOTIFY THE ARCHITECT IF THERE ARE ANY DISCREPANCIES.
2. DOORS LOCATED IN 1 HOUR SMOKE BARRIERS ARE REQUIRED TO BE 20 MINUTE RATED DOORS.
3. DOORS LOCATED IN 1 HOUR FIRE BARRIERS ARE REQUIRED TO BE 45 MINUTE (C LABEL) DOORS.
4. DOORS LOCATED IN 2 HOUR SMOKE BARRIERS ARE REQUIRED TO BE 60 MINUTE (C LABEL) DOORS.
5. DOORS LOCATED IN 2 HOUR FIRE BARRIERS ARE REQUIRED TO BE 90 MINUTE (C LABEL) DOORS.
6. DOORS LOCATED IN 2 HOUR SMOKE BARRIERS ARE REQUIRED TO BE 60 MINUTE (C LABEL) DOORS.
7. DOORS LOCATED IN 2 HOUR SMOKE BARRIERS ARE REQUIRED TO BE 60 MINUTE (C LABEL) DOORS.
8. DOORS LOCATED IN 2 HOUR SHUTTLE ENCLOSURES ARE REQUIRED TO BE 60 MINUTE (C LABEL) DOORS.
9. DOORS LOCATED IN 2 HOUR SHAFT ENCLOSURES ARE REQUIRED TO BE 90 MINUTE (B LABEL) DOORS.
10. DOORS LOCATED IN 2 HOUR MAGNETICALLY RELEASED ENCLOSURES ARE REQUIRED TO BE 90 MINUTE (B LABEL) AND
ARE TO BE RELEASED AND CLOSE IN THE CASE OF AN EMERGENCY FIRE. PANDA HARDWARE IS TO BE PROVIDED ON
ALL SUCH DOORS.
11. PER IBC SECTION 701.5.2.2 DOORS IN SMOKE PARTITIONS SHALL MEET THE REQUIREMENTS FOR A SMOKE
AND GLASS CONTROL DOOR AS DESCRIBED IN SECTION 701.5.2.
THE DOOR ASSEMBLY SHALL NOT EXCEED 3.0 CUBIC FEET PER MINUTE PER SQUARE FOOT OF DOOR OPENING
AT 10-INCH OF WATER FOR BOTH AN AMMUNITION TEST AND THE ELEVATED TEMPERATURE TEST.

DOOR FRAME NOTES

1. FRAMES SHALL BE SIZED FOR DOORS BEING USED.
2. FRAMES SHALL MEET REQUIRED DURATIONS SHOWN ON DRAWINGS AND AS SPECIFIED AND REQUIRED BY THE GOVERNING AUTHORITIES.
3. ALL STEEL FRAMES SHALL BE 1/2" WIDE, DOUBLE RABBIT, WITH 5/8" STOP UNLESS INDICATED OTHERWISE.
4. WRAP-AROUND FRAMES SHALL BE ONE INCH LONGER THAN THROAT DIMENSION.
5. FRAME DEPTH SHALL BE 5 3/4" EXCEPT WHERE INDICATED OTHERWISE, OR WHERE JAMB, JOOR, OR SILL IS SPECIFIED BY DRAWING DIMENSIONS.
6. FRAME 2" OR 4" HEAD FRAME IN MASONRY OPENINGS AS APPLICABLE TO COORDINATE WITH HEAD SIZE, MASONRY COURSING, AND OPENING SIZE.
7. ALL STEEL FRAMES IN EXTERIOR WALLS SHALL BE GALVANIZED, FULLY WELDED WITH ALL JOINTS PERMANENTLY SEALED WATERPROOF, STOPPS SHALL BE GALVANIZED ON ALL SURFACES AND EDGES.
8. ALL GLASS IN FIRE RATED FRAMES SHALL BE FIRE PROTECTION RATED GLAZING.
9. GLASS IN NON-RATED FRAMES SHALL BE GLAZED TO MEET THE REQUIREMENTS SPECIFIED OTHERWISE NOTED.
10. MAXIMUM 1296 SQ. IN. GLASS PER LITE IN 20 MINUTE AND "C" LABEL FRAMES.

DOOR TYPES

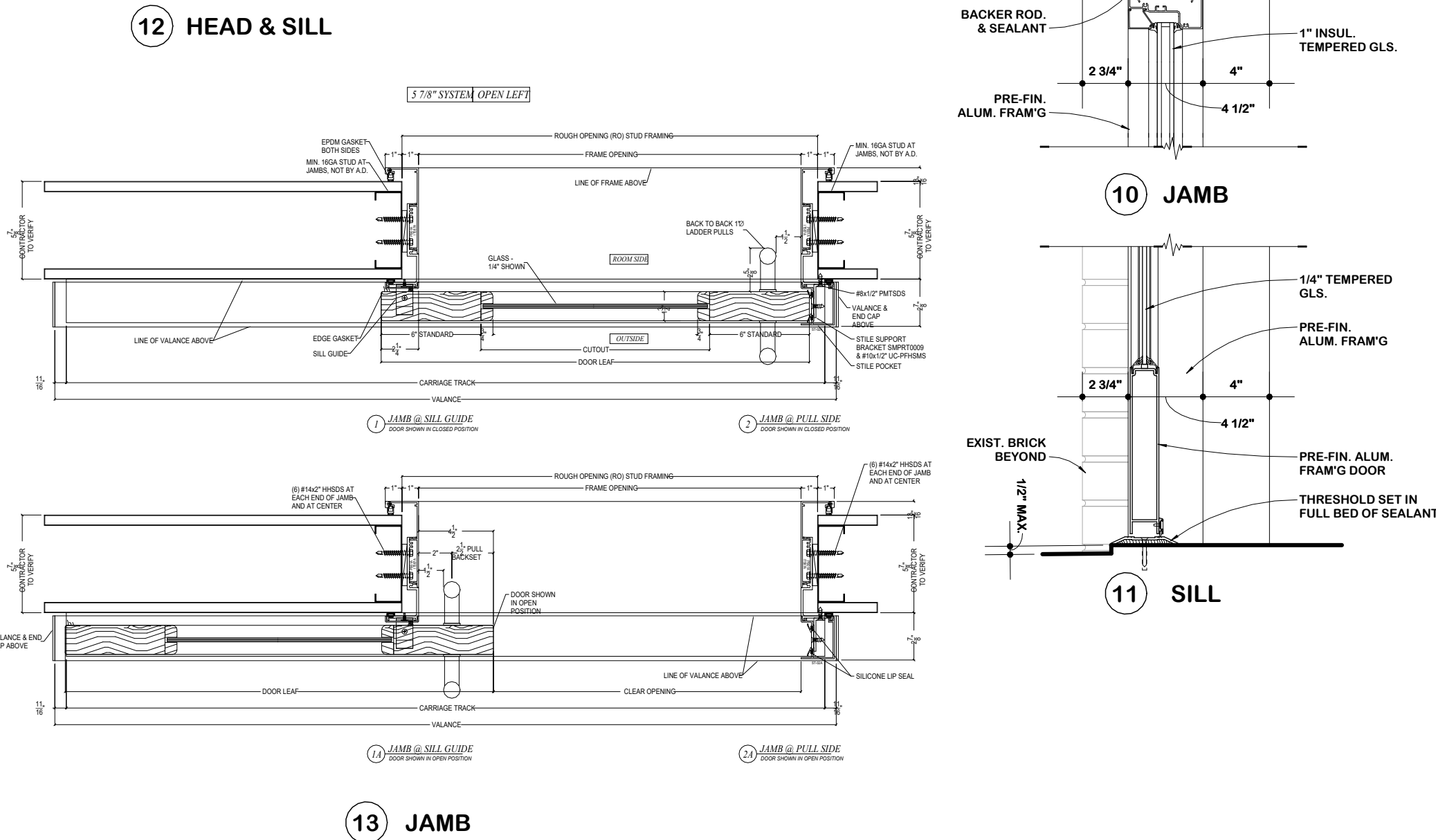
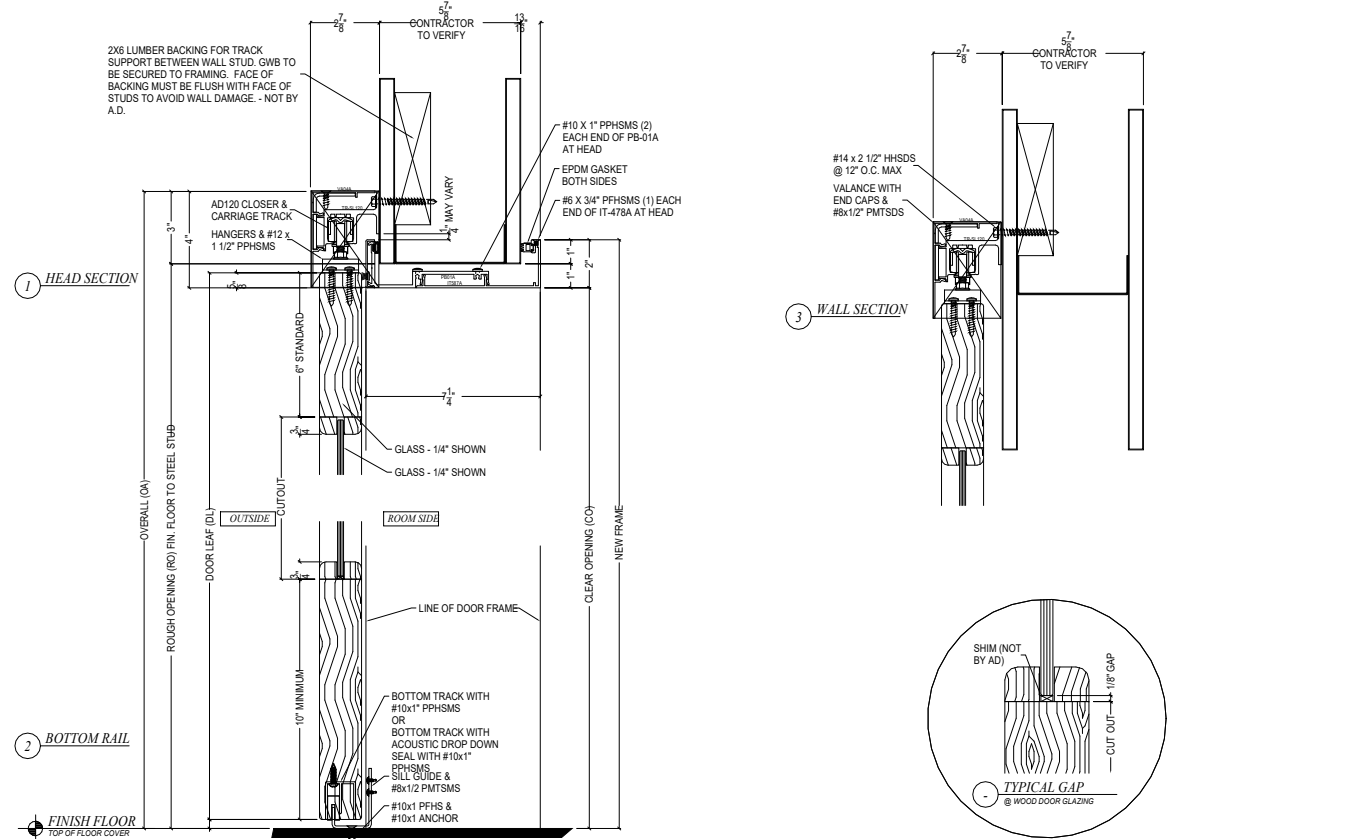
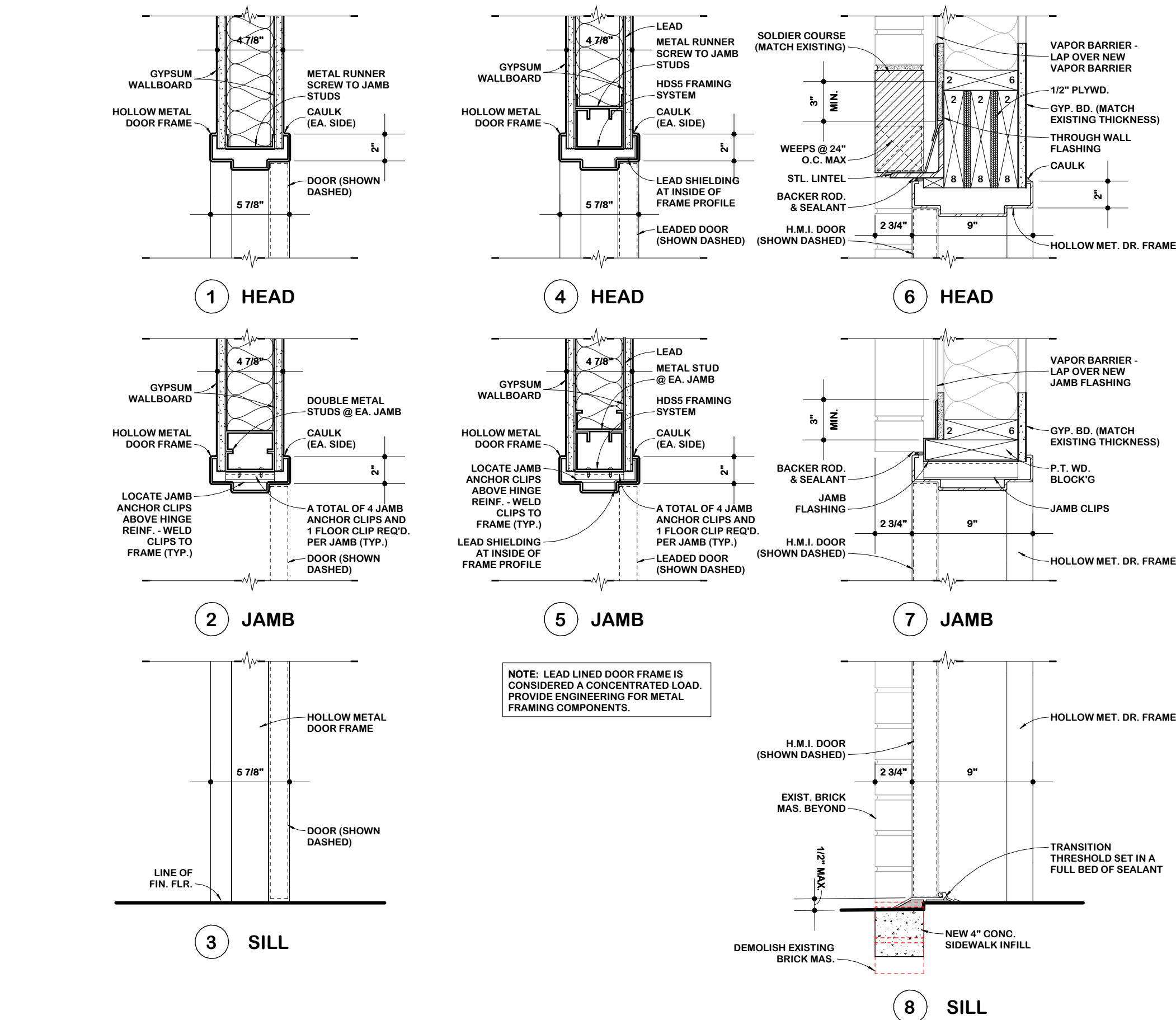
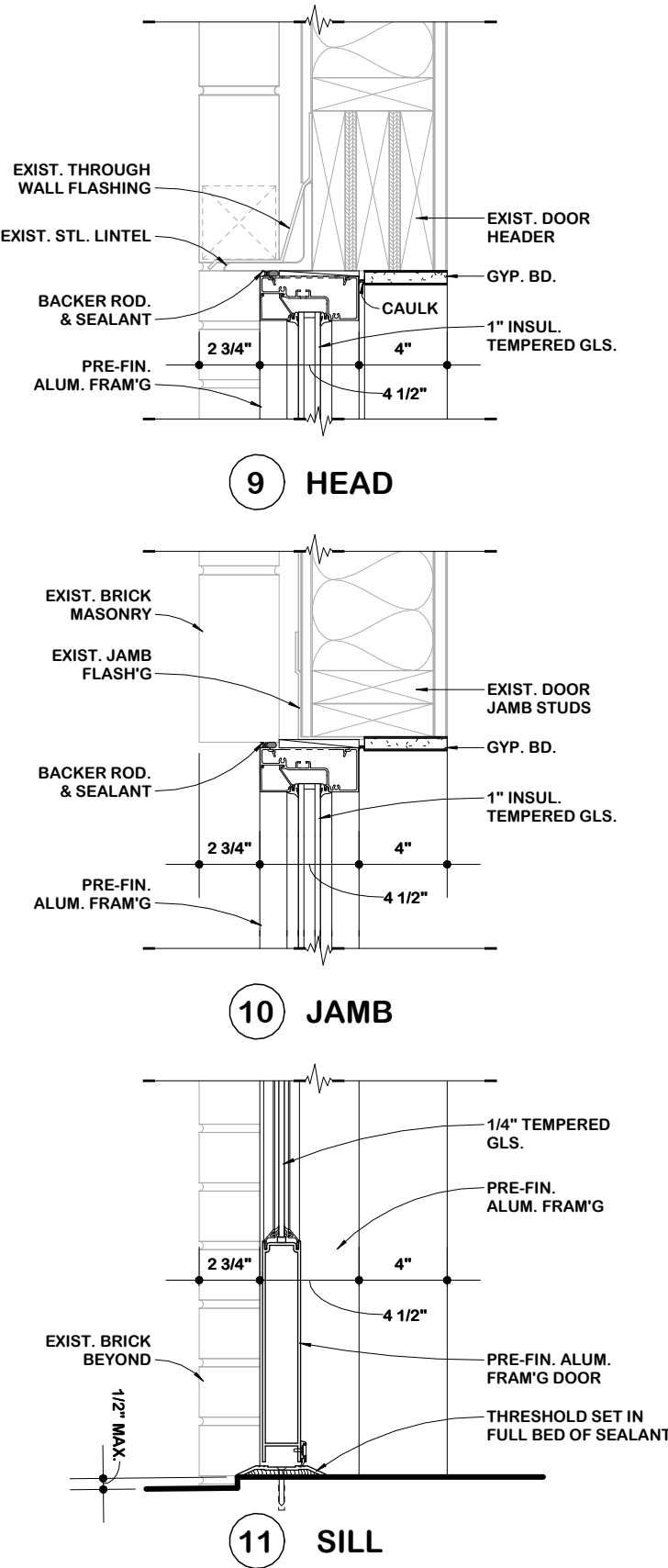
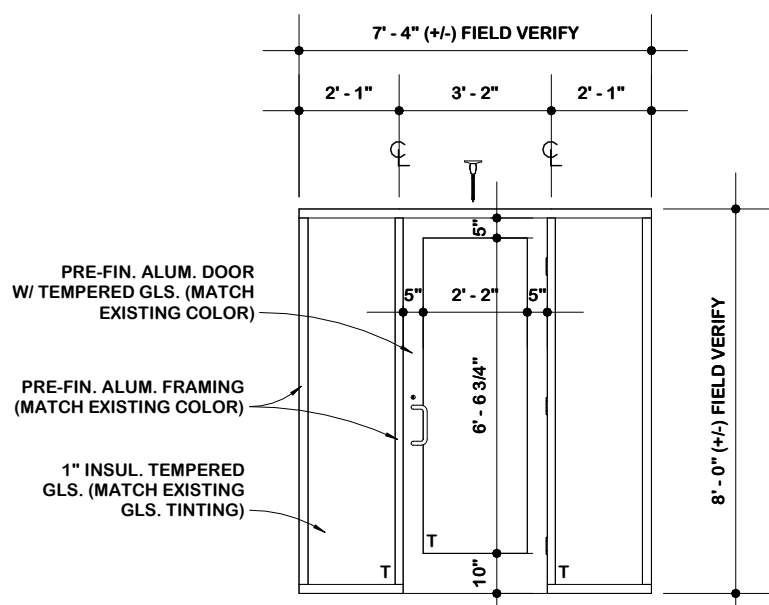
SCALE: 1/4" = 1'-0"



ELEVATION

SCALE: 1/4" = 1'-0"

ALUMINUM FRAMING ELEVATION



DOOR & WINDOW DETAILS

SCALE : 1 1/2" = 1'-0"

SHEET ISSUANCES

REV. NO.	DATE	DESCRIPTION
	18 NOV 25	DESIGN DEVELOPMENT
	11 FEB 26	CONSTRUCTION DOCUMENTS

SHEET TITLE

DOOR & WINDOW SCHEDULES & DETAILS

SHEET NUMBER

A14

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ECF	30 JUL 25	25119

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HVAC LEGEND

TYPE	EQUIPMENT DESIGNATION
AHU-1	
TAG	
①	THERMOSTAT
H	HUMIDISTAT
P	PRESSURE MONITOR
SFD	COMBINATION SMOKE/FIRE DAMPER
FD	FIRE DAMPER
⊠	CEILING DIFFUSER
⊠	RETURN GRILLE
⊠	EXHAUST GRILLE
TAG	
SIZE	
10	AIR DISTRIBUTION DESIGNATION
1450	
CFM	
MOD	SIDEWALL REGISTER
⊠	MOTOR OPERATED DAMPER
⊠	MANUAL OPERATED DAMPER
⊠	
⊠	TURNING VANES
S	SMOKE DETECTOR
⊠	TRANSFER OPENING
SIZE	
⊠	NEW DUCTWORK
⊠	EXISTING DUCTWORK TO REMAIN
⊠	EXISTING DUCTWORK TO BE REMOVED
⊠	CONNECT TO EXISTING (POINT OF CONNECTION)
AFF	ABOVE FINISHED FLOOR
DB	DRY BULB
CFM	CUBIC FEET PER MINUTE
DDC	DIRECT DIGITAL CONTROL
EF	EXHAUST FAN
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
FCU	FAN COIL UNIT
IN. W.G.	INCHES WATER GAUGE
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
OA	OUTSIDE AIR
RA	RETURN AIR
WL	WALL LOUVER
WB	WET BULB
VAV	VARIABLE AIR VOLUME TERMINAL
VFD	VARIABLE FREQUENCY DRIVE

CONTROL SEQUENCE

- AHU THERMOSTATS ARE TO BE PROGRAMMED SUCH THAT EVAPORATOR FANS RUN CONTINUOUSLY DURING OCCUPIED PERIODS. FANS ARE TO CYCLE DURING UNOCCUPIED MODES.
- EXHAUST FANS NOTED IN THE FAN SCHEDULE AS CONTROLLED BY TIME CLOCK ARE TO RUN CONTINUOUSLY DURING OCCUPIED PERIODS.

DEHUMIDIFICATION OF SPACE

PROVIDE TEMPORARY POWER AS REQUIRED SO NEW HVAC SYSTEMS CAN BE OPERATED A MINIMUM OF 2 WEEKS PRIOR TO INSTALLATION OF CEILING TILES.

AIR DISTRIBUTION DEVICES

MARK	MANUFACTURER	MODEL	TYPE	DUTY	COLOR	MATERIAL	VOLUME DAMPER	REMARKS
A	TITUS	TMS-IB	LOUVER FACE	SA	WHITE	STEEL	NO	24x24 PANEL SIZE W/ INSULATION BLANKET. PLASTER FRAME WHERE LOCATED IN GYPSUM CEILING.
B	TITUS	TMS-IB	LOUVER FACE	SA	WHITE	STEEL	YES	12x12 PANEL SIZE W/ INSULATION BLANKET. PLASTER FRAME WHERE LOCATED IN GYPSUM CEILING.
C	TITUS	50F	ALUMINUM EGGCRATE	RA	WHITE	ALUMINUM	NO	24x24 PANEL SIZE: 22x22 EGGCRATE FACE W/TRANSITION TO NECK/RUNOUT LISTED. PLASTER FRAME WHERE LOCATED IN GYPSUM CEILING.
D	TITUS	23RL	RETURN REGISTER	RA	WHITE	STEEL	YES	AIRFOIL BLADES 3/4" SPACED, FIXED
E	TITUS	TLFR	LAMINAR FLOW PERF.	SA	WHITE	STEEL	YES	72x24 FACE W/ INSULATION OPTION / 8" NECK, HEPA FILTER, HEPALERT FILTER ALARM

CRITICAL AREA SPLIT SYSTEM UNITS SCHEDULE

MARK	MANUFACTURER	MODEL (CU/AHU)	CFM	E.S.P. IN W.G.	MIN. O.A. CFM	HP	GROSS COOLING CAPACITY					AUX. KW	VOLTAGE	REMARKS
							TOTAL (MBH)	SENS (MBH)	E.A.T. DB/WB	L.A.T. DB/WB	O.A.T. DB(F)	EER		
CU-2/ AHU-2	AAON	CFA-003-A-A-8 / H3-BRB-8	875	1.5	150	1.00	35.0	25.8	73.1/ 61.0	47.4/ 46.5	95	11.0	5.3 kW	208/3/60 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬
CU-3/ AHU-3	AAON	CFA-003-A-A-8 / H3-BRB-8	875	1.5	150	1.00	35.0	25.8	73.1/ 61.0	47.4/ 46.5	95	11.0	5.3 kW	208/3/60 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬
① PROGRAMMABLE ELECTRONIC THERMOSTAT AND HUMIDISTAT. ② COMPRESSOR ANTI-CYCLE CONTROLS. ③ SMOKE DETECTOR IN SUPPLY & RETURN AIR DUCTS. ④ SINGLE POINT CONNECTION WITH THERMAL OVERLOADS ⑤ AUXILIARY DRAIN PAN WITH FLOAT SWITCH. ⑥ ELECTRIC HEAT WITH SCR CONTROL. ⑦ CONDENSER FAN WITH VFD OR ECM FOR HEAD PRESSURE CONTROL AND OPERATION DOWN TO 35 DEG. F. ⑧ ANY ACCESSORIES REQUIRED FOR PROPER OPERATION INCLUDING FILTER/DRYER, WIND BAFFLES, AND LIQUID LINE SOLENOID VALVE. ⑨ DOUBLE WALL CONSTRUCTION (AIR HANDLING UNIT). ⑩ FACTORY MOUNTED MODULATING HOT GAS REHEAT DEHUMIDIFICATION OPTION. ⑪ SUPPLY FAN WITH VFD OR ECM. ⑫ FACTORY MOUNTED DDC CONTROLLER TO PROVIDE COOLING, HEATING, AND DEHUMIDIFICATION MODES OF OPERATION. ⑬ MERV 8 PRE-FILTER.														
*LEAVING AIR TEMPERATURE (L.A.T.) INDICATED IS LEAVING THE UNIT.														

EXISTING ROOF TOP UNIT SCHEDULE

MARK	NOMINAL TONS	MANUFACTURER	MODEL	CFM	E.S.P. IN W.G.	MIN. O.A. CFM	HP	GROSS COOLING CAPACITY					HEATING CAPACITY		UNIT WT. (LBS)	REMARKS	
								TOTAL (MBH)	SENS (MBH)	E.A.T. DB/WB	O.A.T. DB	EER/ SEER	AUX. KW@ ACT. VOLTAGE				
EX. RTU-1	EXISTING TO REMAIN			2400	--	600	EXISTING TO REMAIN									① ②	
①	CONTRACTOR TO INSPECT, CLEAN, AND REPAIR EXISTING UNIT AS NECESSARY TO ENSURE PROPER FUNCTION.						②	EXISTING THERMOSTAT TO BE RELOCATED TO NEW LOCATION AS SHOWN.									

EXHAUST FANS SCHEDULE

MARK	TYPE	MANUFACTURER	MODEL	CFM	E.S.P.	MAX. MOTOR HP OR WATTS	MAX SONES	DRIVE	WEIGHT	VOLTAGE	CONTROLLED BY	REMARKS
EF-1	CEILING	GREENHECK	SP-A90	70	0.250	35 W	3.0	DIRECT	-	COORD. W/ELEC.	⑦	① ③ ④ ⑥ ⑧ ⑫
EF-2	CEILING	GREENHECK	SP-A90	75	0.250	35 W	3.0	DIRECT	-	COORD. W/ELEC.	②	① ③ ④ ⑥ ⑧ ⑫
EF-3	CEILING	GREENHECK	SP-A90	50	0.250	35 W	3.0	DIRECT	-	COORD. W/ELEC.	②	① ③ ④ ⑥ ⑧ ⑫
EF-4	CEILING	GREENHECK	SP-A200	135	0.250	50 W	3.0	DIRECT	-	COORD. W/ELEC.	⑦	① ③ ④ ⑥ ⑧ ⑫
EF-5	CEILING	GREENHECK	SP-A200	120	0.250	50 W	3.0	DIRECT	-	COORD. W/ELEC.	②	① ③ ④ ⑥ ⑧ ⑫

- ① DISCONNECT SWITCH.

② RUNS CONTINUOUSLY.

③ SPEED CONTROL.

④ CEILING GRILLE.

⑤ ROOF CURB.

⑥ BACKDRAFT DAMPER.

⑦ DIGITAL TIMECLOCK. COORDINATE HOURS WITH FACILITY ADMINISTRATOR.

⑧ ROOF CAP OR WALL CAP AS INDICATED.

⑨ PROVIDE INDUSTRIAL EPOXY POWDER COATING ON ALL PARTS IN AIRSTREAM.

⑩ INTERMATIC MODEL FF15MC WALL TIMER SWITCH.

⑪ ON/OFF INDICATOR LIGHT. LOCATE NEXT TO EXHAUST GRILLES.

⑫ APPROVED MANUFACTURERS: GREENHECK, PENNBARRY, TWIN CITY, AND COOK.

MECHANICAL SPECIFICATIONS AND NOTES

- ALL MECHANICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2024 INTERNATIONAL MECHANICAL CODES WITH ALL STATE AND LOCAL AMENDMENTS, THE STATE ENERGY CODE, NFPA 90A, NFPA 101 AND ANY LOCAL ORDINANCES.
- ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL ELECTRICAL REQUIREMENTS.
- THE SMOKE DETECTOR INDICATED ON THE DRAWINGS SHALL BE WIRED TO STOP THE FAN UPON DETECTION OF SMOKE, AND SIGNAL THE BUILDING FIRE ALARM SYSTEM (IF APPLICABLE). IF THE BUILDING HAS NO FIRE ALARM SYSTEM, THE DETECTOR SHALL CAUSE AN AUDIBLE AND VISUAL ALARM IN A NORMALLY OCCUPIED AREA.
- SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AS RECOMMENDED IN SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION. DUCTWORK SHALL BE CONSTRUCTED TO WITHSTAND THE PRESSURES INDICATED ON THE DRAWINGS. ALL JOINTS AND SEAMS IN ALL SHEET METAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE AS PER SMACNA STANDARDS. NEW DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE. ROUND LOW VELOCITY DUCTWORK SHALL BE FABRICATED OF GALVANIZED STEEL WITH LOCK TYPE SPIRAL SEAMS IN ACCORDANCE WITH SMACNA DETAILS AND STEEL GAUGE THICKNESS AS LISTED IN THE SMACNA MANUAL, BUT NOT LESS THAN 26 GAUGE THICKNESS. DUCT SYSTEM SHALL BE AS MANUFACTURED BY UNITED SHEET METAL, SEMCO, HRANEC SMI, OR APPROVED EQUAL. LONGITUDINAL SEAM ROUND DUCTWORK WILL NOT BE ACCEPTED. "SNAP LOCK" ROUND DUCTWORK WILL NOT BE ACCEPTED. ALL ROUND DUCTWORK FITTINGS SHALL BE PRESSED OR WELDED. ADJUSTABLE ELBOWS OR FITTINGS WILL NOT BE ACCEPTED.
- FIRE DAMPERS SHALL BE INSTALLED IN LOCATIONS SHOWN AND IN ALL PENETRATIONS OF RATED WALLS PER THE MANUFACTURER'S LISTED INSTALLATION INSTRUCTIONS. FIRE DAMPERS SHALL HAVE BLADE STACKS OUT OF THE AIRSTREAM. AT CONTRACTOR'S OPTION, FIRE DAMPERS MAY BE DELETED FROM PENETRATIONS OF FIRE BARRIERS WHERE ANY OF THE FOLLOWING APPLY:

A. PENETRATIONS ARE TESTED IN ACCORDANCE WITH ASTM E 119 OR UL 263 AS PART OF THE FIRE-RESISTANCE-RATED ASSEMBLY.

OR

B. SUCH WALLS ARE PENETRATED BY DUCTED HVAC SYSTEMS, HAVE A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS, ARE IN AREAS OF OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 OF THE INTERNATIONAL BUILDING CODE. FOR THE PURPOSES OF THIS EXEMPTION, A DUCTED HVAC SYSTEM SHALL BE A DUCT SYSTEM FOR THE STRUCTURE'S HVAC SYSTEM. SUCH A DUCT SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN 26 GAGE (.00217 INCH) THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.

- A. PENETRATIONS ARE TESTED IN ACCORDANCE WITH ASTM E 119 OR UL 263 AS PART OF THE FIRE-RESISTANCE-RATED ASSEMBLY.

OR

B. SUCH WALLS ARE PENETRATED BY DUCTED HVAC SYSTEMS, HAVE A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS, ARE IN AREAS OF OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 OF THE INTERNATIONAL BUILDING CODE. FOR THE PURPOSES OF THIS EXEMPTION, A DUCTED HVAC SYSTEM SHALL BE A DUCT SYSTEM FOR THE STRUCTURE'S HVAC SYSTEM. SUCH A DUCT SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN 26 GAGE (.00217 INCH) THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.
- WHERE FIRE DAMPERS ARE NOT USED PER EITHER OF THE TWO ABOVE EXCEPTIONS, THE PENETRATION SHALL BE PROTECTED BY AN APPROVED FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE A TEMPERATURE RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED.
- FLEXIBLE DUCTWORK SHALL BE FLEXMASTER TYPE 3 OR EQUAL, SAME SIZE AS DIFFUSER NECKS, MAXIMUM 6'-0" LONG. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS.
 - CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO THE NEAREST DRAIN. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC. PROVIDE CONDENSATE PUMP IF REQUIRED COORDINATE POWER REQUIREMENTS. PUMPS SHALL BE MOUNTED WITHIN OVERFLOW PANS. CONDENSATE PIPING SHALL BE INSULATED WITH ONE INCH NOMINAL THICKNESS FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER JACKET. OWENS CORNING ASJ/SSLII OR APPROVED EQUAL.
 - AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED BY AN INDEPENDENT NEBS OR AABC TEST AND BALANCE AGENCY TO DELIVER THE AIR AND WATER QUANTITIES SHOWN ON THE DRAWINGS.
 - MOUNT THERMOSTATS AND WALL SENSORS 48" AFF UNLESS NOTED OTHERWISE.
 - MANUAL OVER-RIDE CONTROL (EMERGENCY SHUT-DOWN) SWITCH FOR ALL NEW HVAC UNITS SHALL BE LOCATED ADJACENT TO FIRE ALARM ANNUNCIATOR PANEL OR OTHER LOCATION APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION IN ACCORDANCE WITH NFPA 90A SECTION 6.2. ONE SWITCH SHALL BE USED TO GLOBALLY SHUT-DOWN ALL UNITS. SHUT-DOWN SWITCH SHALL BE PROVIDED WITH CLEAR, FLIP-UP PROTECTIVE COVER.
 - SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING ANY EQUIPMENT OR INSTALLING ANY DUCTWORK OR PIPING.
 - ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 - ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF FIVE YEARS AFTER ACCEPTANCE BY OWNER.
 - SHEET METAL SUPPLY, RETURN, & OUTSIDE AIR DUCTWORK SHALL BE INSULATED WITH 2" THICK EXTERIOR FIBERGLASS DUCT INSULATION WITH FOIL VAPOR BARRIER, U.L. LISTED, MINIMUM R-6.
 - DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR.
 - PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK AND PIPING SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THE WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.
 - ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE WORK SHALL BE REPAIRED.
 - LOCATIONS OF DUCTWORK, GRILLES, REGISTERS, AND DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH ARCHITECT AND OWNER.
 - AS-BUILT DRAWINGS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION INDICATING ALL FIELD CHANGES AND REVISIONS TO EQUIPMENT, DUCTWORK, PIPING AND CONTROLS. THESE DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT UPON COMPLETION OF THE PROJECT.
 - THE CONTRACTOR SHALL PREPARE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS FOR THE PROJECT FOR THE OWNER'S USE. THE CONTRACTOR SHALL ALSO INSTRUCT THE OWNER'S REPRESENTATIVE IN THE OPERATION OF ALL SYSTEMS AND THE MAINTENANCE REQUIRED.
 - ALL REQUIRED CONTROL WIRING NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS. EQUIPMENT SHALL BE CONTROLLED AS INDICATED ON THE DRAWINGS.
 - EQUIPMENT SHALL BE CONTROLLED BY RESPECTIVE INDIVIDUAL PROGRAMMABLE THERMOSTATS, OR AS OTHERWISE SPECIFIED.
 - ROOFTOP HVAC UNITS SHALL BE INSTALLED SUCH THAT ROOF DECK IS COMPLETE AND CONTINUOUS UNDER BOTTOMS OF HVAC UNITS, AND SHALL BE CUT ONLY FOR UNIT SUPPLY AND RETURN OPENINGS. THESE OPENINGS SHALL BE SEALED AIRTIGHT. SPACE BETWEEN ROOF DECK AND BOTTOM OF ROOFTOP HVAC UNITS (INSIDE OF ROOF CURBS) SHALL BE FILLED WITH HIGH DENSITY ACOUSTICAL INSULATION AS DETAILED.
 - ALL ROOFTOP MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL AND ANCHORED TO MINIMUM 12" HIGH INSULATED ROOF CURBS. CONTRACTOR SHALL COORDINATE ROOF SLOPE AND ACTUAL CURB HEIGHTS WITH ARCHITECTURAL DRAWINGS. ALL REFERENCES TO ROOF HEIGHTS REFER TO HEIGHTS ABOVE FINISHED ROOF SURFACE.
 - ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M CO., CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATION, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.
 - ALL PIPING SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS.
 - REFRIGERANT PIPING SHALL BE TYPE L COPPER TUBING WITH BRAZED JOINTS. SUCTION PIPING SHALL BE INSULATED WITH 3/4" CLOSED CELL INSULATION. ALL JOINTS AND SEAMS SHALL BE SEALED WITH ADHESIVE. REFRIGERANT PIPING PASSING THROUGH FLOORS SHALL BE ENCLOSED IN A CONTINUOUS FIRE RESISTIVE PIPE SHAFT HAVING NO OPENINGS INTO FLOORS NOT SERVED BY THE REFRIGERATING SYSTEM, AS REQUIRED BY LOCAL CODE AUTHORITIES. THE PIPE SHAFT SHALL BE VENTED TO THE OUTDOORS.
 - INDOOR AIR CONDITIONING EQUIPMENT SHALL BE INSTALLED WITH AUXILIARY CONDENSATE DRAIN PANS UNDER UNITS WITH FLOAT SWITCHES. INSTALL MINIMUM 4' X 4' X 3/4" THICK PLYWOOD SERVICE PLATFORM ON UNIT SERVICE SIDE OF UNITS LOCATED IN ATTIC SPACES.
 - WHERE SPLIT SYSTEM LINE SETS BETWEEN EVAPORATOR AND CONDENSER EXCEED MANUFACTURER'S FACTORY CHARGE LENGTH (50 FEET) AND/OR LIFT HEIGHT, CONTRACTOR SHALL INCLUDE IN SHOP DRAWING SUBMITTAL:

· PROPOSED LINE SET DIMENSIONS (DIAMETER & LENGTH).

· ADDITIONAL SYSTEM REFRIGERANT AND/OR OIL CHARGE.

· PROPOSED SYSTEM OPTIONS (CRANKCASE HEATER, ACCUMULATOR, EXPANSION VALVE, ETC..).

· SUCTION RISER TRAPS (QUANTITY AND LOCATION).

Architecture
Strategic Planning
Program Management
Interior Design

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DESIGN DOCUMENTS FOR :

MIDTOWN
VASCULAR

AMBULATORY
SURGICAL
CENTER

1625 HARDEMAN AVE
MACON, GA 31201

SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
11	FEB 26	CONSTRUCTION DOCUMENTS

SHEET TITLE
**SCHEDULES,
NOTES, &
LEGEND -
MECHANICAL**
SHEET NUMBER

M1

DRAWN BY JS APPOINTED 30 JUL 25 PROJECT 25119

TEST & BALANCE / SYSTEM COMMISSIONING:

SYSTEM COMMISSIONING:

AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE VERIFIED, TESTED, ADJUSTED, AND BALANCED BY AN INDEPENDENT NEBB OR AABC TEST AND BALANCE AGENCY TO DELIVER THE AIR AND/OR WATER QUANTITIES SHOWN ON THE DRAWINGS. THE REPORT IS TO INCLUDE:

- HVAC UNITS (RTU'S, FURNACES, AHU'S, ENERGY RECOVERY UNITS, ETC.):
 - BALANCED AIR QUANTITIES TO WITHIN 10% +/- OF THE SUPPLY AND RETURN AIR QUANTITIES INDICATED ON THE DESIGN DOCUMENTS. WHERE DESIGN DOCUMENTS DO NOT INDICATE A RETURN AIR QUANTITY, RETURN AIR READINGS SHALL BE INCLUDED IN REPORT BUT DEVICES ARE NOT REQUIRED TO BE BALANCED.
 - PROVIDE TRAVERSE READINGS FOR POSITIONING OF VENTILATION (OUTSIDE AIR) AT RTU INTAKE HOOD AND/OR DUCTWORK FOR AHU'S, FURNACES, ETC.
- PROPORTIONAL ADJUSTMENT OF VENTILATION BASED ON SUPPLY AIR QUANTITY MINUS RETURN AIR QUANTITY IS NOT ACCEPTABLE.
- DATE OF BALANCING
- OUTDOOR AMBIENT CONDITIONS INCLUDING; TEMPERATURE AND HUMIDITY LEVEL.
- RETURN AIR TEMPERATURE (WB&DB)
- MIXED AIR TEMPERATURE (WB&DB)
- DISCHARGE AIR TEMPERATURE (WB&DB) AT THE COIL
- DISCHARGE AIR TEMPERATURE (WB&DB) AT THE AIR DISTRIBUTION TERMINAL
- FAN SYSTEM MEASURED EXTERNAL STATIC PRESSURE
- REFRIGERANT CHARGE (SPLIT SYSTEMS ONLY)
- MOTOR ROTATION
- AMPERAGE READINGS FOR MOTORS AND COMPRESSORS

M. VERIFY PROGRAMMING OF THERMOSTATS/EMS

M.1. UNITS ARE TO BE SET TO THE FOLLOWING:

- MINIMUM 7 DAY PROGRAMMING CYCLE
- UNITS EVAPORATOR FAN TO OPERATE CONTINUOUSLY DURING OCCUPIED MODE AS DETERMINED BY OWNER'S PERSONNEL. THERMOSTATS INSTALLED SHOULD HAVE THE ABILITY TO SEPARATELY SCHEDULE EVAPORATOR FAN RUN TIME, IF NOT REPORT THIS TO GENERAL CONTRACTOR FOR IMMEDIATE CORRECTION.
- UNIT EVAPORATOR FANS ARE TO CYCLE DURING UNOCCUPIED/SETBACK MODES.

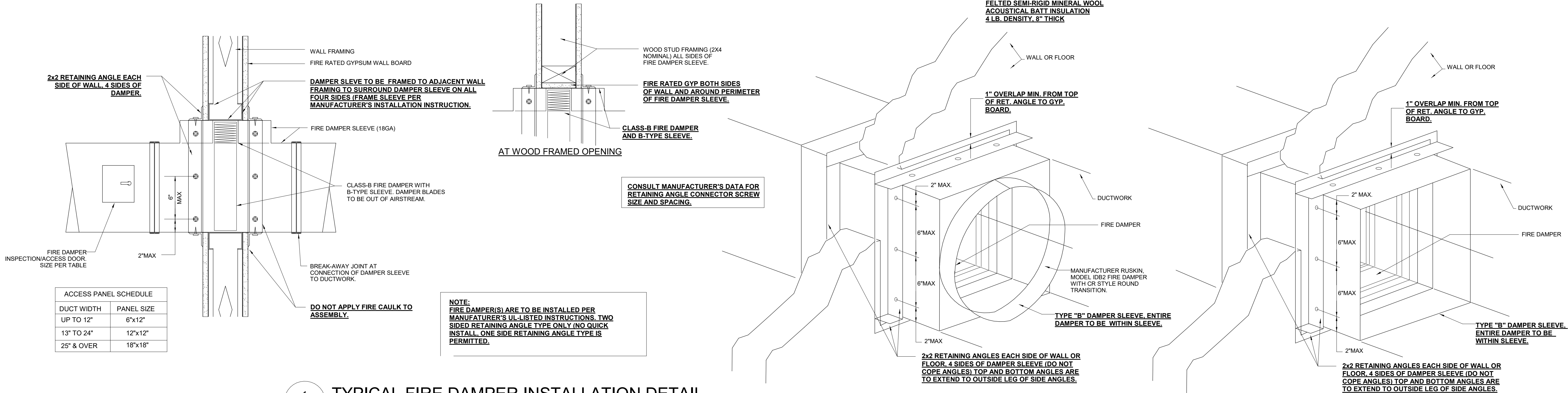
2. EXHAUST SYSTEMS:

- BALANCED AIR QUANTITIES TO WITHIN 10% +/- OF THE SUPPLY INDICATED ON THE DESIGN DOCUMENTS
- MOTOR ROTATION
- FAN SYSTEM MEASURED EXTERNAL STATIC PRESSURE
- VERIFY PROGRAMMING OF TIME CLOCKS/EMS
- UNITS ARE TO BE SET TO THE FOLLOWING:
 - MINIMUM 7 DAY PROGRAMMING CYCLE
 - FANS ARE TO BE SET ON THE EXACT SAME OPERATING SCHEDULE AS THE HVAC UNITS EXCEPT AS NOTED ON THE "EXHAUST FAN SCHEDULE" ON THE DESIGN DRAWINGS.
 - VERIFY AND REPORT CONTROL DEVICE FOR ALL FANS (SWITCH, TIME CLOCK, EMS, MARK-TIMER, ETC.
- REPORT SHALL INCLUDE DRAWING OR SCHEMATIC INDICATING THE LOCATION OF EACH OUTLET WITH REFERENCE TO MEASURED AIR FLOW QUANTITY.
- PROVIDE FOUR (4) COPIES OF REPORT TO ARCHITECT.

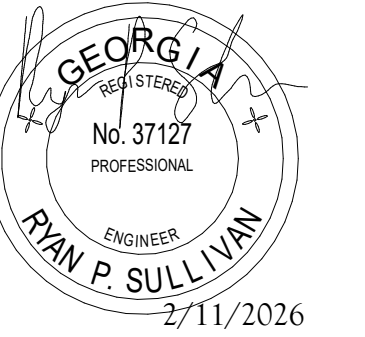
WALL LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	SIZE (WxH)	FREE AREA (FT2)	CFM	ΔP (IN. W.G.)	TYPE	DAMPER	DEPTH	DRAINABLE	REMARKS
WL-1 & WL-2	RUSKIN	ELF6375DX	18x12	--	--	0.08	FIXED	YES	6"	YES	① ③
WL-3	RUSKIN	ELF6375DX	18x12	.57	300	0.08	FIXED	YES	6"	YES	① ③
① LOUVERS SHALL HAVE A BAKED ENAMEL FINISH. SUBMIT COLOR CHART TO ARCHITECT.						② MOTORIZED DAMPER WITH INTERLOCK TO EXHAUST FAN. INTERLOCK ONE PER EXHAUST FAN.					
						③ INSECT SCREEN					

Critical Room Air Change / Pressurization Calculations - ASHRAE 170-2017																		
UNIT TAG	Room Information				Outdoor Airflow Values			Exhaust Airflow Values				Supply Airflow Values				Pressurization		
	Room	Room Area (FT²)	Room Height (FT)	Room Volume (FT³)	Required Outdoor Air Changes (ACH/HR)	Required Outdoor Air (CFM)	Provided Outdoor Air (CFM)	Provided Outdoor Air Changes (ACH/HR)	Required Exhaust Air Changes (ACH/HR)	Required Exhaust Air (CFM)	Provided Exhaust Air (CFM)	Provided Exhaust Air Changes (ACH/HR)	Required Supply Air Changes (ACH/HR)	Required Supply Air (CFM)	Provided Supply Air (CFM)	Provided Supply Air Changes (ACH/HR)	Required Room Pressurization	Provided Room Pressurization
	Staff Tlt./Shr.	89	9.0	801	NR	NR	0	NR	10	134	135	10.1	NR	NR	NR	NR	Negative	Negative
	Pat. Tlt.	46	9.0	414	NR	NR	0	NR	10	69	70	10.1	NR	NR	NR	NR	Negative	Negative
	Jan.	10	9.0	90	NR	NR	0	NR	10	15	50	33.3	NR	NR	NR	NR	Negative	Negative
	Decon/Soiled Utility	106	9.0	954	2	32	35	2.2	6	95	120	7.5	NR	NR	105	6.6	Negative	Negative
	Soiled Utility	51	9.0	459	2	15	15	2.0	6	46	75	9.8	NR	NR	60	7.8	Negative	Negative
	Clean Utility	85	9.0	765	2	26	30	2.4	NR	NR	0	NR	4	51	300	23.5	Positive	Positive
	Pre/Post+Nurse	546	10.0	5460	2	182	185	2.0	NR	NR	0	NR	6	546	510	5.6	NR	NR
	Bays	325	10.0	3250	2	108	110	2.0	NR	NR	0	NR	6	325	750	13.8	NR	NR
	Clean Supply	71	9.0	639	2	21	25	2.3	NR	NR	0	NR	4	43	80	7.5	Positive	Positive
	Sterile Supply	61	9.0	549	2	18	20	2.2	NR	NR	0	NR	4	37	65	7.1	Positive	Positive
	Storage	141	10.0	1410	2	47	50	2.1	NR	NR	0	NR	4	94	130	5.5	Positive	Positive
	Procedure Room #1	300	10.0	3000	3	150	150	3.0	NR	NR	0	NR	15	750	875	17.5	Positive	Positive
	Procedure Room #2	300	10.0	3000	3	150	150	3.0	NR	NR	0	NR	15	750	875	17.5	Positive	Positive
	Consult	126	9.0	1134	2	38	40	2.1	NR	NR	1	NR	6	113	115	6.1	Positive	Positive



1
M2
TYPICAL FIRE DAMPER INSTALLATION DETAIL
SCALE: NONE



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DESIGN DOCUMENTS FOR :

MIDTOWN
VASCULAR

AMBULATORY
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CENTER

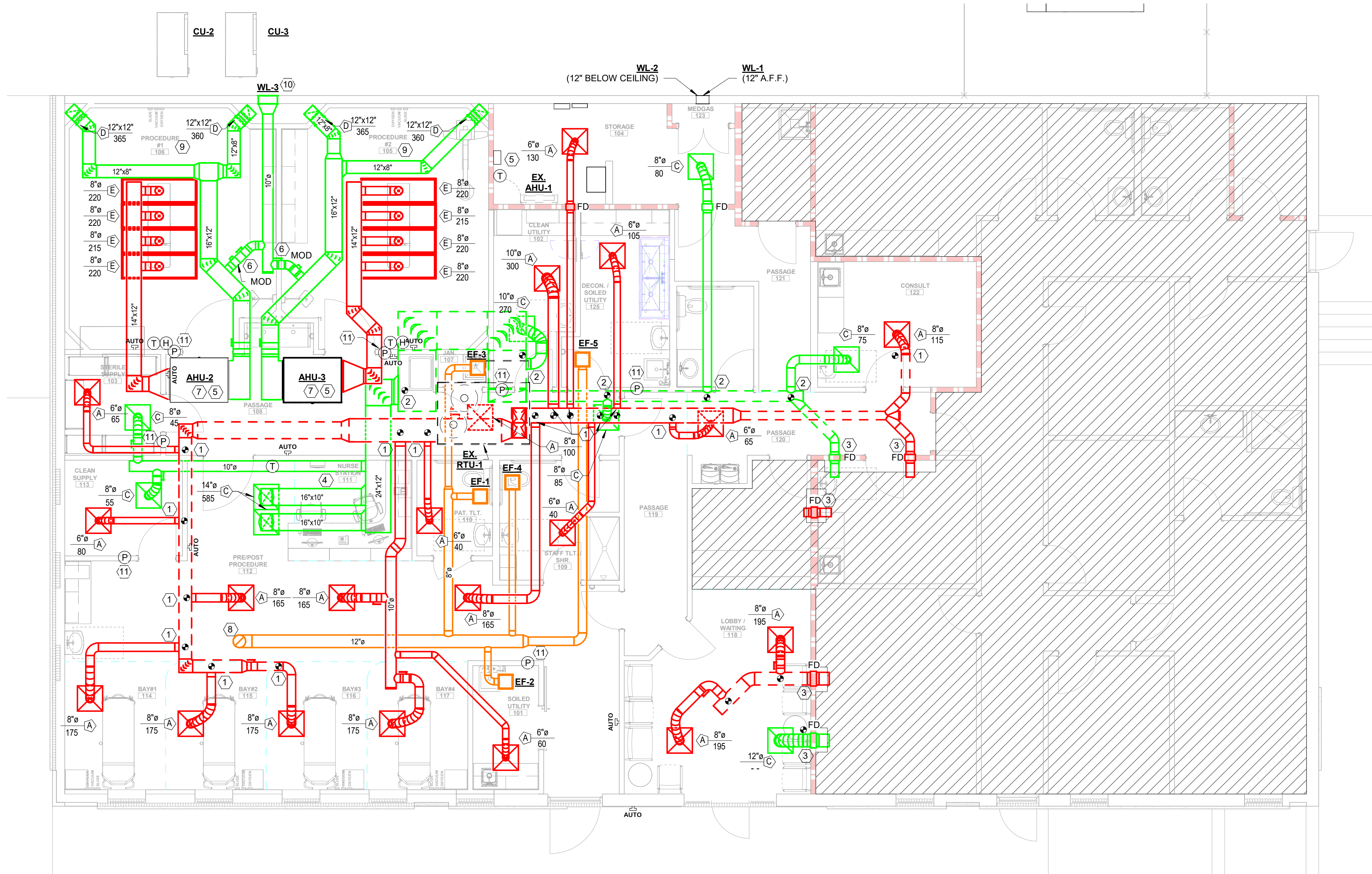
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GENERAL NOTES:

- EXISTING ROOF TOP UNITS AND ASSOCIATED TRUNK DUCTWORK TO BE REUSED. CONTRACTOR TO INSPECT, CLEAN, AND REPAIR EXISTING DUCTWORK WHERE NECESSARY.
- EXISTING BATHROOM EXHAUST FANS TO REMAIN WHERE USE IS NOT ALTERED; CLEAN AND REPAIR AS NECESSARY.

KEYED NOTES:

- NEW SUPPLY BRANCH TO BE CONNECTED TO EXISTING SUPPLY TRUNK DUCTWORK. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING SYSTEMS PRIOR TO CONSTRUCTION.
- NEW RETURN BRANCH TO BE CONNECTED TO EXISTING SUPPLY TRUNK DUCTWORK. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING SYSTEMS PRIOR TO CONSTRUCTION.
- NEW FIRE DAMPER TO BE INSTALLED IN EXISTING DUCTWORK WHERE PENETRATIONS OF NEWLY RATED WALL OCCURS.
- ROOM PRESSURIZATION ALARM(S) AND DIRTY FILTER ALARMS TO BE LOCATED AT NURSE STATION. COORDINATE EXACT PLACEMENT WITH ARCHITECTURAL INTERIOR ELEVATIONS.
- 1" CONDENSATE TO BE ROUTED TO MOP SINK. PROVIDE CONDENSATE PUMP WHERE NECESSARY; COORDINATE WITH ELECTRICAL CONTRACTOR.
- OUTSIDE AIR BRANCH TO EACH AIR HANDLING UNIT SHALL HAVE MANUAL VOLUME DAMPER BALANCED TO OUTSIDE AIR QUANTITY SHOWN IN SCHEDULE AND MOTOR OPERATED DAMPER INTERLOCKED WITH AIR HANDLING UNIT EVAPORATOR FAN. WHEN EVAPORATOR FAN IS ENERGIZED MOTOR OPERATED DAMPER SHALL BE IN OPEN POSITION AND WHEN FAN IS OFF DAMPER SHALL BE IN CLOSED POSITION.
- CONTRACTOR TO ENSURE SERVICE CLEARNACE IS MAINTAINED. FIELD VERIFY FIELD CONDITIONS PRIOR TO INSTALLING EQUIPMENT. COORDINATE WITH ALL TRADES.
- 12" DIAM EXHAUST DUCT TO ROOF CAP. MINIMUM 25' FROM ALL FRESH AIR INTAKES.
- MANUAL VOLUME DAMPERS ABOVE GYPSUM CEILING IN OPERATING ROOM SHALL BE CABLE OPERATED WITH CABLES ROUTED TO ACCESSIBLE CEILING SPACE.
- NEW FRESH AIR INTAKE LOUVER TO BE LOCATED MIN. 25' FROM ALL NEW AND EXISTING SOURCES OF EXHAUST/VENT DISCHARGES.
- ROOM PRESSURIZATION ALARMS TO BE SETRA LITE DUAL ALERT OR EQUAL.



1 FLOOR PLAN - MECHANICAL
M3 3/16" = 1'-0"

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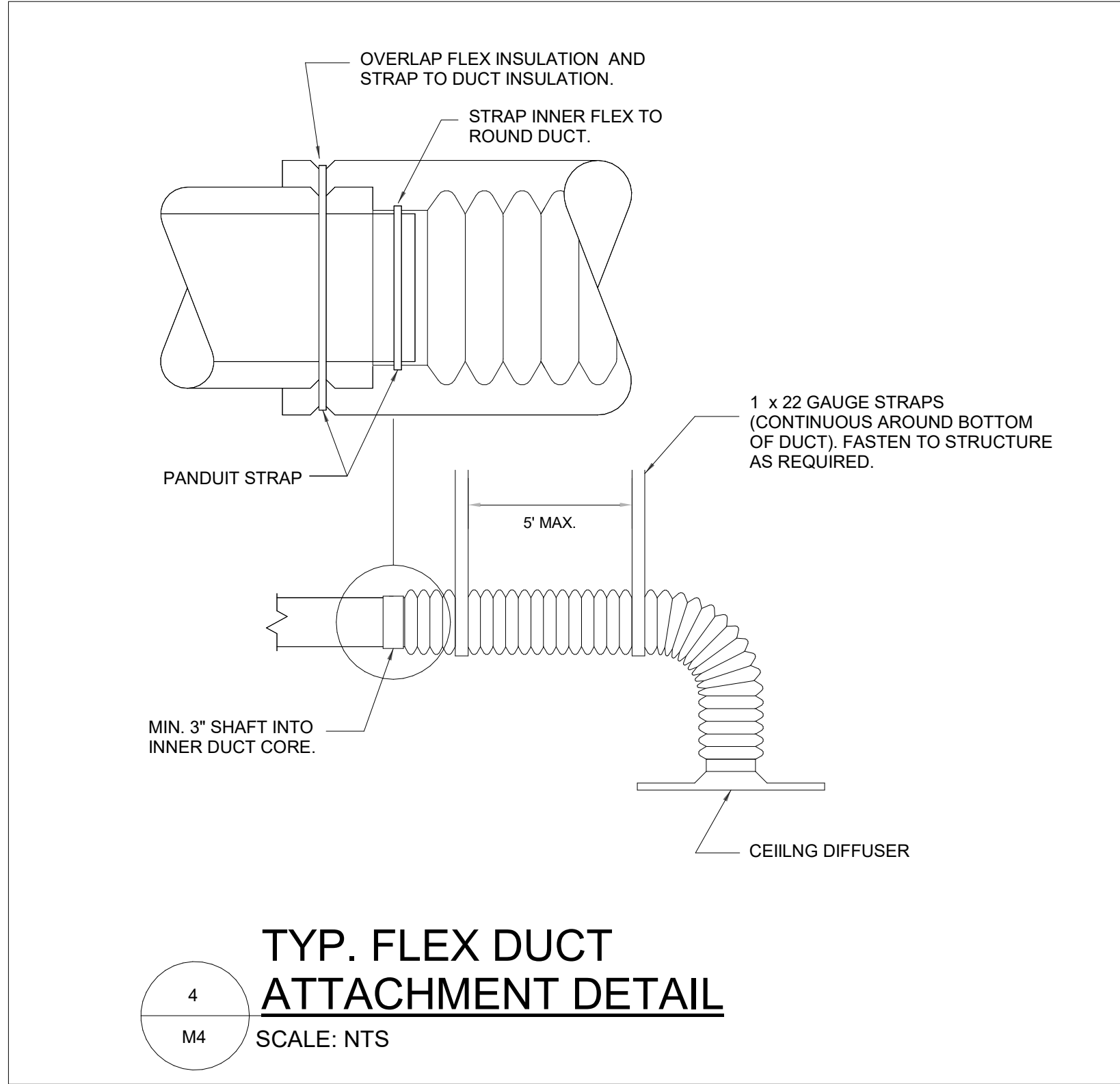
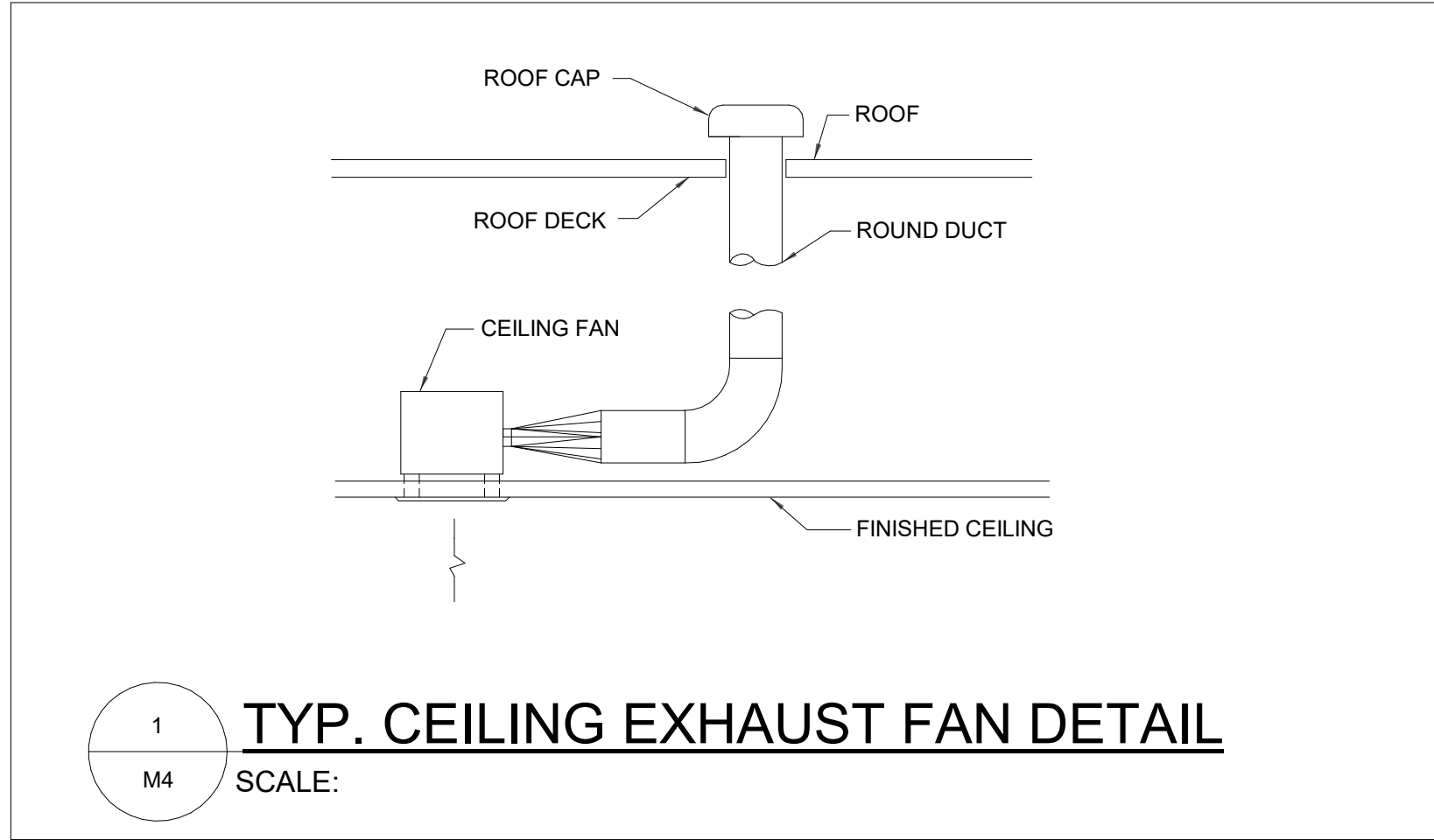
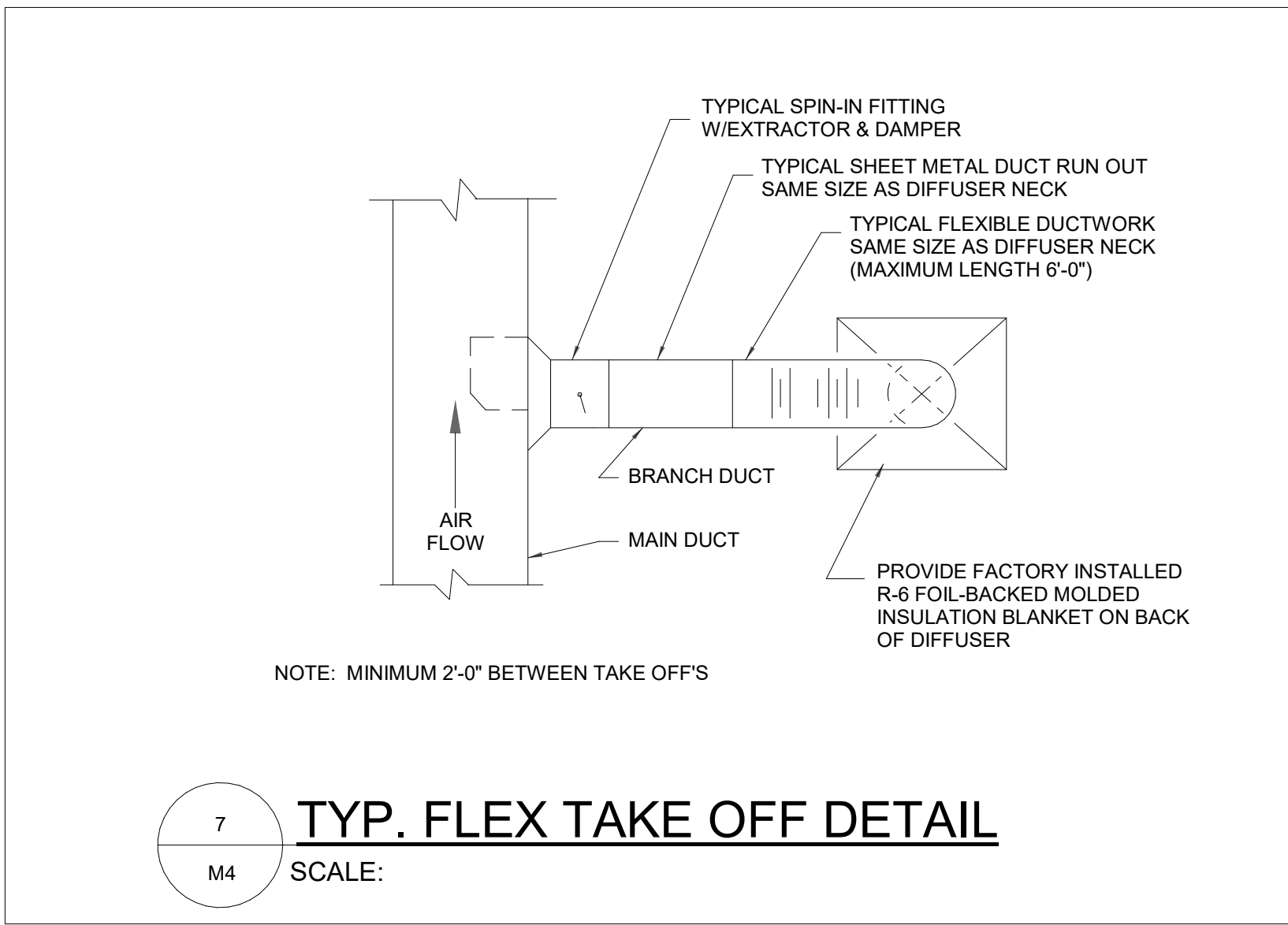
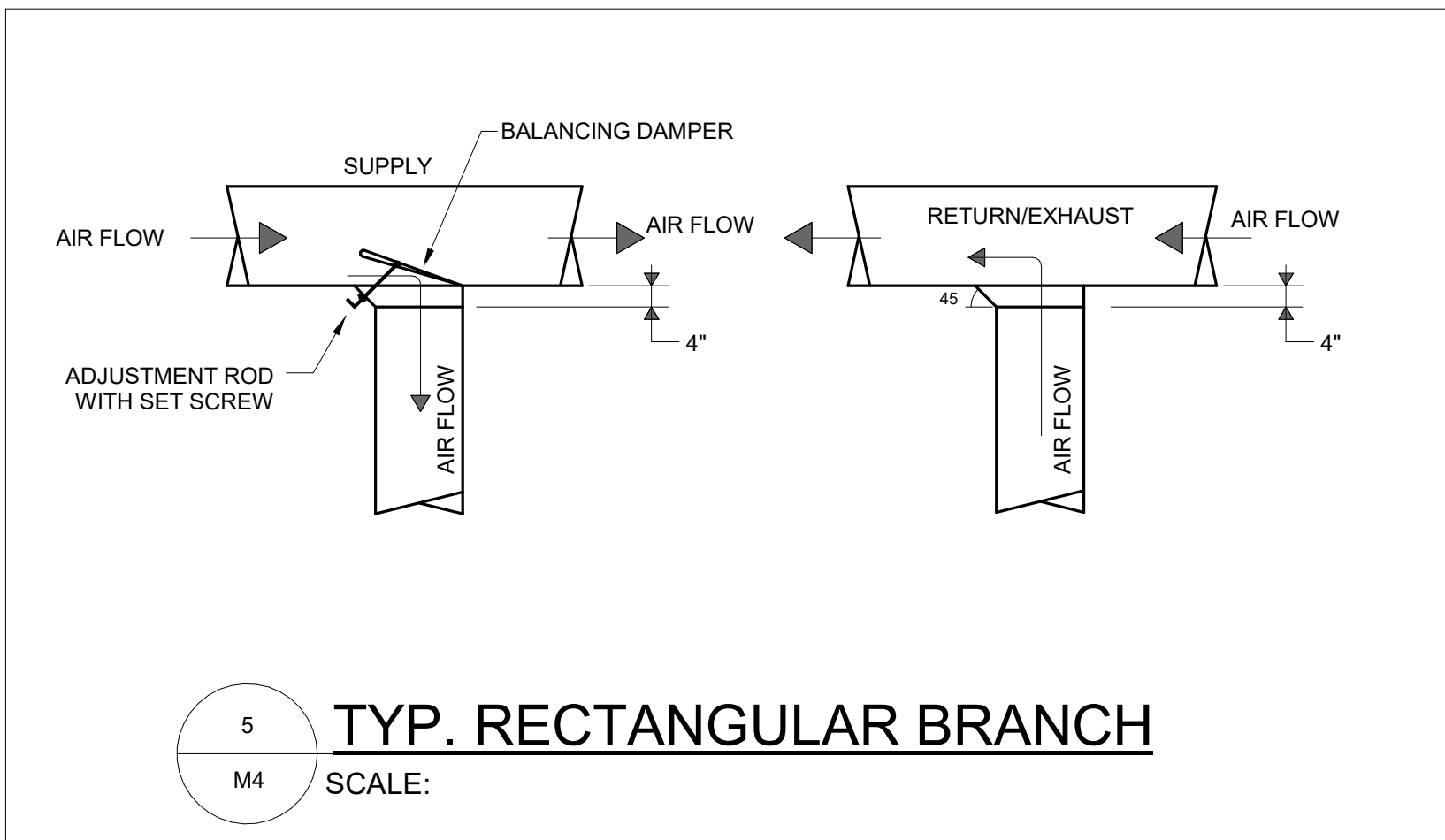
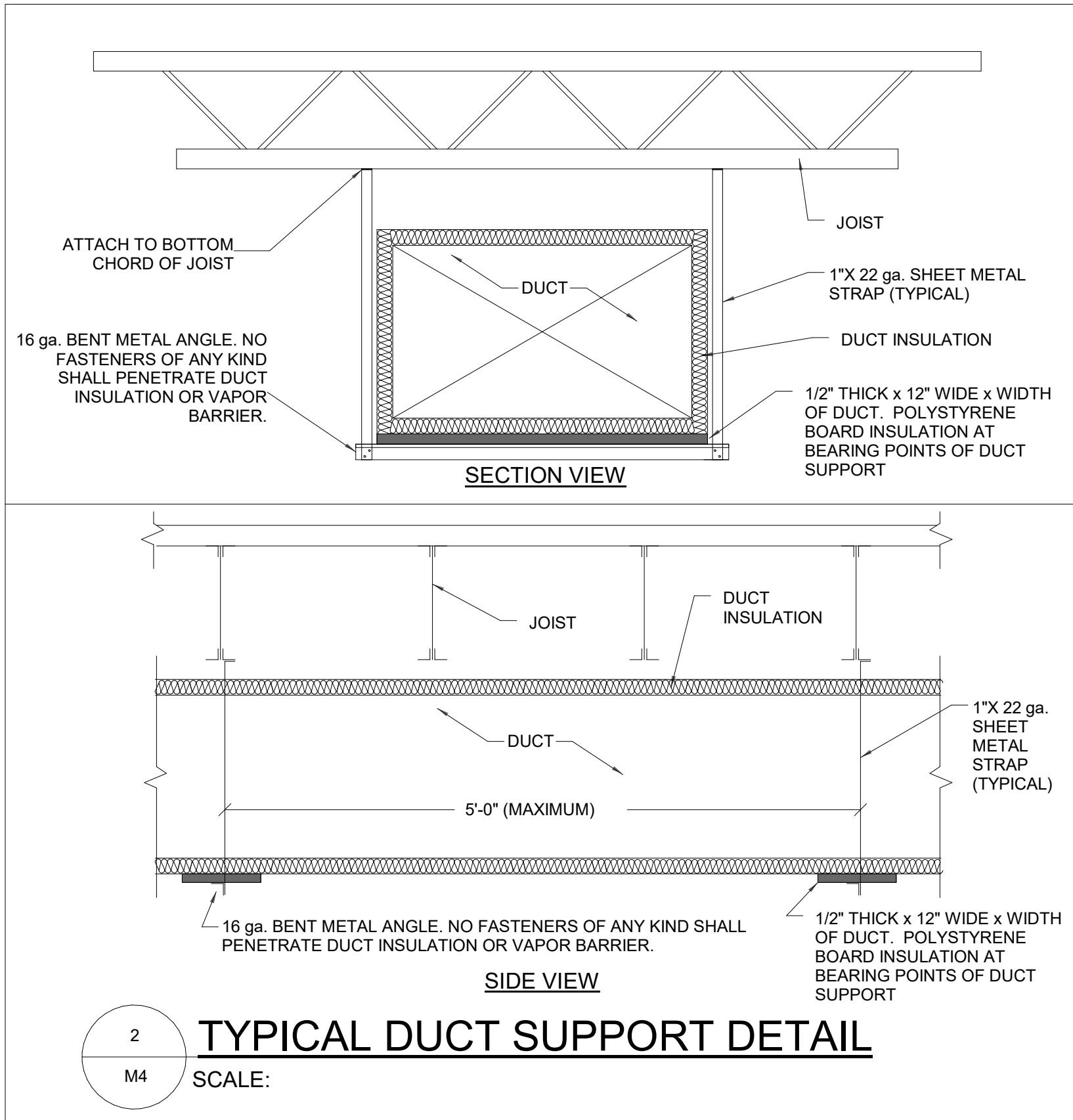
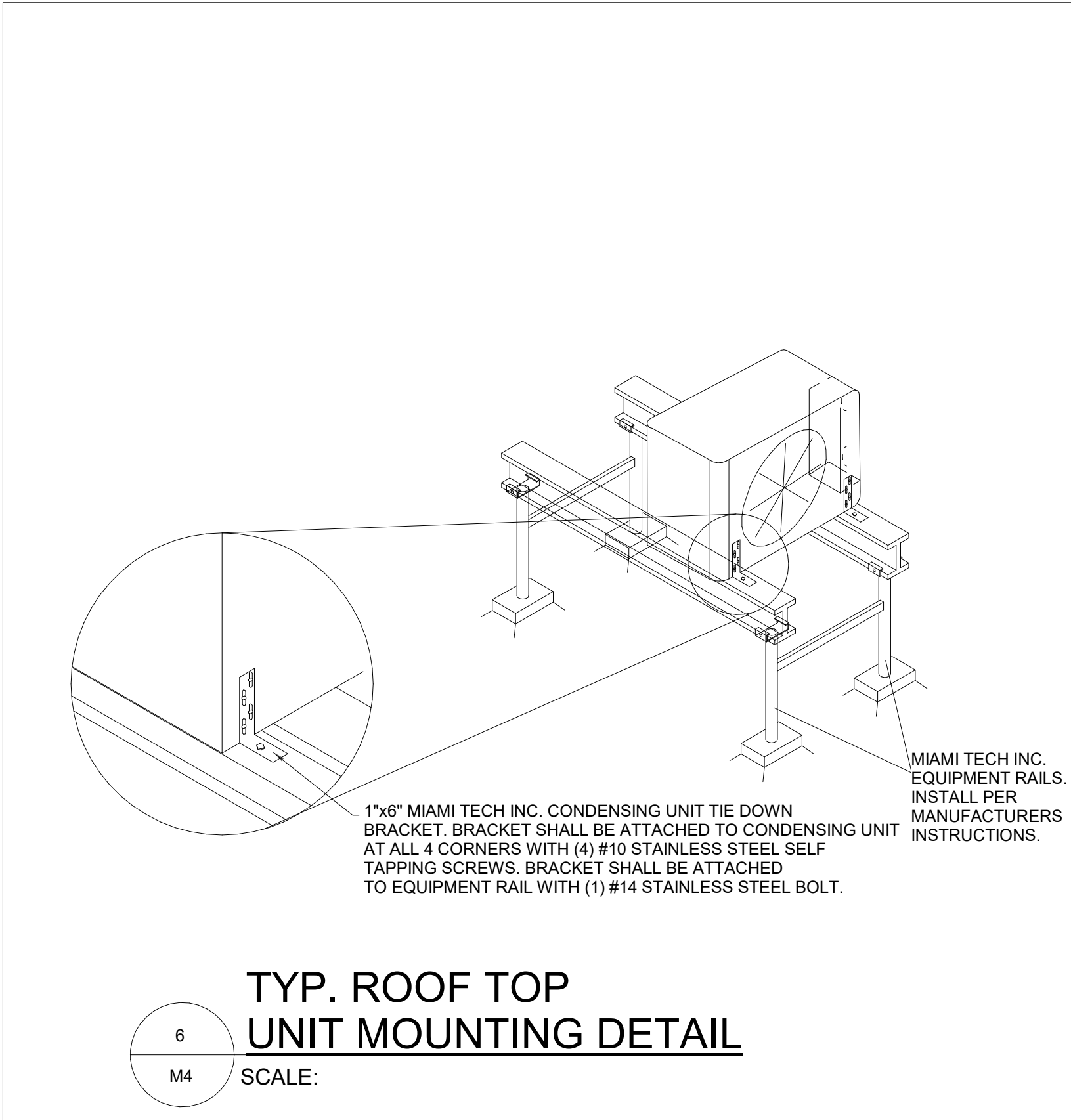
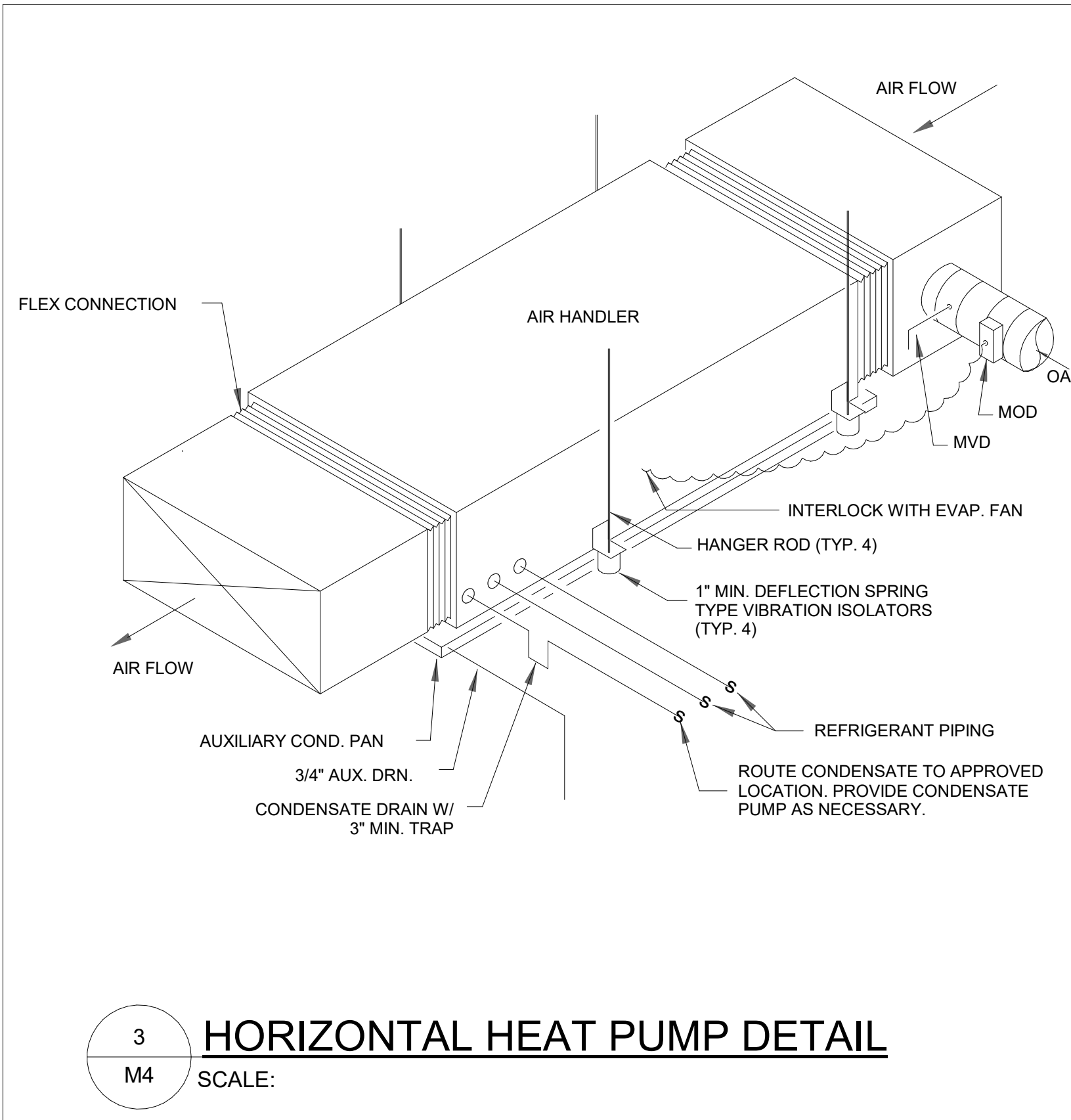
SHEET TITLE

FLOOR PLAN -
MECHANICAL

SHEET NUMBER

M3

DRAWN BY	APPOINTED	PROJECT
JS	30 JUL 25	25119



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PLUMBING FIXTURE SCHEDULE								
MARK	DESCRIPTION	MANUFACTURER, MODEL NUMBER	FITTINGS/ACCESSORIES	REMARKS	FIXTURE CONNECTIONS			
					CW	HW	WASTE	VENT
L-1	LAVATORY	KOHLER PINOIR K-2035	FAUCET: DELTA 1501TF3310 DECKMOUNT ELECTRONIC SE GOOSENECK FAUCET, BATTERY, 2.2GPM IN CHROME. P-TRAP: PROFLO PFPTB104 CHROME PLATED BRASS TRUEBRO LAV SHIELD	WILKINS WZW3870XLT4PC THERMOSTATIC MIXING VALVE SET AT 105 DEGREES.	1/2"	1/2"	1-1/4"	2"
S-1	SINK	ELKAY D11719	FAUCET: DELTA 1501TF3310 DECKMOUNT ELECTRONIC SE GOOSENECK FAUCET, BATTERY, 2.2GPM IN CHROME	STAINLESS STEEL 17" X 10" X 6-1/8" SINGLE BOWL DROP-IN BAR SINK. SINGLE HOLE. WILKINS WZW3870XLT4PC THERMOSTATIC MIXING VALVE SET AT 105 DEGREES.	1/2"	1/2"	1-1/2"	2"
S-2	SCRUB SINK	SANI-LAV 54WSL-0.5	--	0.5 GPM. 2-PERSON WALL MOUNT WASH-STATION WITH DOUBLE KNEE PEDAL VALVES	1/2"	1/2"	1-1/2"	2"
S-3	REPROCESSING/DECON. SINK	AMSCO 30 CONTRACTOR TO PROVIDE	--	REPROCESSING SINK IS A FREE STANDING, FIXED HEIGHT UNIT DOUBLE BAY CONFIGURATION	1/2"	1/2"	1-1/2"	2"
WC-1	WATER CLOSET ELONGATED, TANK TYPE ADA	AMERICAN STANDARD 2467.016 CADET	SEAT: CHURCH #9500C	1.6 GPF, ELONGATED, PRESSURE ASSISTED, ADA.	1/2"	--	4"	2"
FD-1	FLOOR DRAIN	JAY R SMITH 2010	-	NICKLE BRONZE STAINER TOP AND TRAP PRIMER INLET. TAILPIECE MOUNTED TRAP PRIMERS ARE NOT ACCEPTABLE. FINISHED GRATE SHALL BE 1/4" BELOW FINISHED FLOOR.	1/2"	--	3"	--
HS-1	HOPPER SINK	ZURN Z.CS1.M.	FLOOR MOUNTED SERVICE SINK SYSTEM WITH 3.5 GPF AQUAVANTAGE FLUSH VALVE WITH BED PAN WASHER. 1 1/2" TOP SPUD.	FRONT & SIDE STAINLESS STEEL RIM GUARDS. NON HOLD OPEN DUAL SEAL HANDLE. ZURN ONE SYSTEM, ALL INCLUDED.	1/2"	1/2"	3"	2"
EE-1	EMERGENCY EYE-WASH	BRADLEY S19-222	INCLUDE BRADLEY EFX8 THERMOSTATIC MIXING VALVE. IN WALL, PROVIDE ACCESS PANEL.	WALL-MOUNT EYE/FACE WASH UNIT. 10" IMPACT RESISTANT PLASTIC.	1/2"	1/2"	3"	2"
SH-1	SHOWER ADA	FREEDOM SHOWERS APF6232BF5PC	FAUCET: FREEDOM SHOWERS APFHGBLSG HANDHELD SHOWER KIT WITH CHROME GLIDE BAR & APFD6 2" BRASS DRAIN & STRAINER.	INCLUDE GRAB BARS, L-SHAPED FOLDING SHOWER SEAT, & ADA PRESSURE BALANCED SHOWER VALVE. EXTERIOR DIMENSIONS: 62 5/8" x 32 1/4" x 79" INSIDE DIMENSIONS: 60 1/16" x 30"	1/2"	1/2"	2"	2"
FS	FLOOR SINK	ZURN Z1901	--	12" X 12" SANI-FLOR RECEPTOR 8" SUMP DEPTH. HALF GRATE. ACID RESISTANT ENAMEL COATING PROVIDES CHEMICAL RESISTANCE.	1/2"	--	3	2"

ELECTRIC WATER HEATER SCHEDULE								
MARK	QTY.	MANUFACTURER/MODEL	STORAGE	TEMP RISE @ 72 DEG	KW	INLET/OUTLET	ELECTRICAL	REMARKS
WH-1	1	AO SMITH DEL-40	38 GAL	34 GPH	6.0	1"	COORD. W/ELEC.	EXPANSION TANK: WATTS PLT-5 MAXIMUM WATER TEMP: 120 F. MOUNTED ABOVE MOP SINK SEE DETAIL
NOTES: 1. WATER HEATERS MAY BE SUBJECT TO BOILER INSPECTION AND CERTIFICATION REGULATIONS PER STATE OR LOCAL REQUIREMENTS. CONTRACTOR SHALL ARRANGE FOR ALL NECESSARY INSPECTIONS AS PART OF HIS CONTRACT AND INFORM THE OWNER OF SUCH REQUIREMENTS FOR SUBSEQUENT PERIODIC INSPECTIONS.								

PUMP SCHEDULE											
PUMP NO.	GPM	HEAD FT.	TYPE	SERVICE	MANUFACTURER	MODEL	MINIMUM EFFICIENCY	MOTOR			REMARKS
								NOM. HP	VOLT-PH	RPM	
CP-1	12	7	VERT/IN-LINE	WH-1	BELL & GOSSETT	NBF-22	-	1/25	115 V 1 PHASE	3250	TIME CLOCK, AQUASTAT, 3/4" FLANGE CONNECTIONS

FIRE SPRINKLER SYSTEM	
AN AUTOMATIC SPRINKLER PROTECTION IS TO BE PROVIDED THROUGHOUT THE BUILDING. THE DESIGN INTENT IS TO MODIFY THE EXISTING SYSTEM, AS REQUIRED, FOR THE NEW ARCHITECTURAL LAYOUT. AUTOMATIC SPRINKLER SYSTEMS SHALL BE DESIGNED TO THE MOST CURRENT EDITION OF NFPA 13. THE OWNER'S INSURANCE UNDERWRITER GUIDELINES, AND LOCAL AND STATE FIRE MARSHAL REQUIREMENTS. THE AUTOMATIC SPRINKLER AND FIRE DETECTION SYSTEMS SHOULD BE MONITORED BY A UL APPROVED FIRE ALARM SYSTEM.	
CONTRACTOR SHALL PROVIDE DETAILED FIRE SPRINKLER DESIGN FOR REVIEW. WORKING PLANS SHALL BE DRAWN TO SCALE (1/8" MINIMUM), WITH A PLAN OF EACH FLOOR, AND SHALL SHOW THOSE ITEMS FROM THE NFPA LIST THAT PERTAINS TO THE DESIGN AND HYDRAULIC CALCULATION OF THE SYSTEM. SHOP DRAWINGS WITH CEILING PLANS SHALL INDICATE ALL LIGHTS, GRILLES, SPEAKERS AND OTHER CEILING COMPONENTS, TO INSURE PROPER COORDINATION WITH SUCH CEILING ITEMS.	
THE CONTRACTOR SHALL SUBMIT AND SECURE APPROVAL OF THE SHOP DRAWINGS WITH HYDRAULIC CALCULATIONS TO THE OWNERS INSURANCE UNDERWRITER AND LOCAL AND STATE AUTHORITIES PRIOR TO SUBMISSION TO THE ENGINEER. ALL SHOP DRAWINGS AND CALCULATIONS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER OR AN EQUIVALENT FIRE SPRINKLER CONTRACTOR'S CERTIFICATE SEAL LICENSED IN THE STATE OF THE PROJECT. IN ADDITION TO SHOP DRAWING SUBMITTALS INCLUDE PRINTED EQUIPMENT BROCHURES AND/OR CATALOG CUTS TO PROVIDE COMPLETE SPECIFICATIONS FOR ALL OF THE ITEMS TO BE FURNISHED FOR THE COMPLETE SYSTEM(S) INCLUDING BUT NOT LIMITED TO SPRINKLER HEADS, ALL PIPE AND FITTINGS, FIRE RISER APPURTENANCES, BACKFLOW PREVENTION, HANGERS AND SUPPORTS, TEST CONNECTIONS AND FLOW/TAMPER SWITCHES.	
A WATER FLOW TEST FROM THE HYDRANT NEAREST THE SITE SERVICE CONNECTION OR FROM THE SERVICE PIPING ON THE SITE IS TO BE PERFORMED BY THE FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH NFPA 291. THIS TEST MAY BE PROVIDED TO THE FIRE PROTECTION CONTRACTOR BY THE INSURANCE UNDERWRITER OR LOCAL WATER AUTHORITY. THE COMPLETED FLOW TEST DATA IS TO BE FORWARDED TO THE ENGINEER.	
AUTOMATIC SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED FOR THE FOLLOWING NFPA DESIGN STANDARDS: LOBBIES, PUBLIC SPACES, SIMILAR AREAS: LIGHT HAZARD, .10 GPM OVER 1500 S.F. MECHANICAL, ELECTRICAL, STORAGE AREAS: ORDINARY HAZARD GROUP 1, .15 GPM OVER 1500 S.F. UNHEATED SPACES (DRY SPRINKLER SYSTEMS): LIGHT HAZARD, .10 GPM OVER 1950 S.F.	
DRY SPRINKLER ASSEMBLIES SHALL BE FURNISHED COMPLETE WITH ALL SPECIALTY VALVES, PIPE AND EQUIPMENT AS REQUIRED FOR THE SYSTEMS. THE SYSTEMS SHALL BE COMPLETE WITH DRY PIPE VALVE, AIR COMPRESSOR, ACCELERATOR, MAINTENANCE PRESSURE COMPRESSOR AND ASSOCIATED TRIM AND WIRED FOR INTERCONNECTION TO ALL REQUIRED ACCESSORIES, DETECTION DEVICES, PRESSURE SWITCHES, ETC. AS REQUIRED. AIR COMPRESSORS FOR DRY PIPE SYSTEMS SHALL BE CALCULATED AND SIZED, FURNISHED AND INSTALLED ON THE RISER AS AN INTEGRAL PART OF THE DRY PIPE SPRINKLER SYSTEM, AND SHALL MEET ALL REQUIREMENTS OF NFPA 13. COORDINATE ELECTRICAL REQUIREMENTS OF AIR COMPRESSOR WITH ELECTRICAL CONTRACTOR PRIOR TO BID.	
THE CONTRACTOR SHALL FURNISH AND INSTALL A CABINET LOCATED IN THE FIRE SERVICE ROOM WITH SPARE NUMBER OF EACH TYPE SPRINKLER HEAD AND RELATED WRENCH AS REQUIRED BY NFPA 13.	
THE SPRINKLER CONTRACTOR SHALL VERIFY THE SEISMIC CONDITIONS, FURNISH AND INSTALL ALL EQUIPMENT & APURTENANCES REQUIRED.	

PLUMBING LEGEND	
	SANITARY, WASTE BELOW FLOOR - S, W, SAN, SS
	SANITARY, WASTE ABOVE FLOOR - S, W, SAN, SS
	VENT PIPING - V
	COLD WATER PIPING - CW
	HOT WATER PIPING - HW
	HOT WATER RETURN PIPING - HWR
	PIPING BELOW FLOOR - B/F
	EXISTING CW
	EXISTING HW
	EXISTING HWR
	EXISTING PIPING
	PIPING TO BE REMOVED OR ABANDONED
	CLEANOUTS - CO, WCO, FCO, GCO
	GATE VALVE - GV
	BALL VALVE - BV
	PRESSURE REDUCING VALVE - PRV
	CHECK VALVE
	CIRCUIT SETTER
	CIRCUIT SETTER ASSEMBLY
	FLOOR DRAIN - FD, FD-*
	AREA DRAIN - AD, AD-*
	ROOF DRAIN - RD, RD-*
	WATER HAMMER ARRESTOR
	VENT THRU ROOF
	WATER HEATER
	PLUMBING FIXTURE
	IN-LINE BACKFLOW PREVENTER
	TRAP PRIMER - TP
	AIR ADMITTANCE VALVE (AAV)
	ABOVE GRADE
	GAS METER
	UNION
	GAS SHUT OFF VALVE
	GAS PIPING ON ROOF
	GAS PIPING
	CONNECT TO EXISTING
	THERMOSTATIC MIXING VALVE

SPRINKLER HEAD NOTES	
1. LAY-IN TILE CEILINGS: SMALL FRAME GLASS ELEMENT, SEMI-RECESSED QUICK RESPONSE PENDENT SPRINKLERS. TEMPERATURE RATING SHALL BE 155°-165°F. SPRINKLER AND ESCUTCHEON SHALL BE POLISHED CHROME. SPRINKLER HEADS LOCATED IN CLOSE PROXIMITY TO CEILING MECHANICAL DEVICES SHALL HAVE ELEVATED TEMPERATURE RATING AS REQUIRED BY NFPA 13".	
2. GYP CEILINGS: QUICK RESPONSE CONCEALED SPRINKLER. COORDINATE COVER FINISH WITH ARCHITECT. TEMPERATURE RATING SHALL BE 155°-165°F. SPRINKLER HEADS LOCATED IN CLOSE PROXIMITY TO CEILING MECHANICAL DEVICES SHALL HAVE ELEVATED TEMPERATURE RATING AS REQUIRED BY NFPA 13".	
3. NO CEILING: SMALL FRAME GLASS ELEMENT, UPRIGHT QUICK RESPONSE PENDENT SPRINKLERS. TEMPERATURE RATING SHALL BE 165° UNLESS HIGHER IS REQUIRED. SPRINKLER SHALL BE ROUGH BRASS FINISH. SPRINKLER HEADS LOCATED IN CLOSE PROXIMITY TO CEILING MECHANICAL DEVICES SHALL HAVE ELEVATED TEMPERATURE RATING AS REQUIRED BY NFPA 13".	
4. AS PER NFPA & IFC. ALL EXISTING HEADS SHALL BE TURNED UPRIGHT DURING CONSTRUCTION / RENOVATION.	

PLUMBING SPECIFICATIONS AND NOTES	
1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2024 INTERNATIONAL PLUMBING CODE WITH APPLICABLE STATE AND LOCAL AMENDMENTS.	
2. ALL PIPING SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED.	
3. EXPOSED PIPING IN FINISHED AREAS SHALL BE CHROME PLATED WITH CHROME PLATED ESCUTCHEON AT PIPE ENTRY TO FINISHED AREA.	
4. SLEEVE OR CORE-DRILL FLOOR SLABS, WALLS, ETC. AS REQUIRED FOR PIPING AND FIRE-STOP OPENING AROUND PIPE. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING.	
5. ALL OPENINGS IN DRAINAGE AND/OR VENT SYSTEMS AS A RESULT OF INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.	
6. WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOFS, ETC. ARE PENETRATED FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT.	
7. PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE.	
8. ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. ARE CONCEALED WITHIN WALLS WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THROUGH LAY-IN SUSPENDED CEILINGS. ACCESS PANELS ARE NOT REQUIRED.	
9. ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED PER IPC SECTION 308 OR OTHER APPLICABLE CODE. INSTALL AS REQUIRED TO FACILITATE EXPANSION/CONTRACTION AND TO MEET CONSTRUCTION CONDITIONS, ALLOWING FOR INSTALLATION OF OTHER WORK, INCLUDING DUCTWORK AND ELECTRICAL CONDUIT.	
10. PROVIDE AN ISOLATING, DIELECTRIC UNION AT ALL CONNECTIONS BETWEEN FERROUS AND NONFERROUS PIPING.	
11. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.	
12. FIELD VERIFY LOCATION OF EXISTING SERVICES TO BE REUSED OR CONNECTED TO AND REPORT TO ARCHITECT/ENGINEER IF OTHER THAN THAT WHICH IS INDICATED ON DRAWINGS.	
13. COORDINATE LOCATION OF FLOOR DRAINS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT.	
14. COORDINATE ELECTRICAL VOLTAGES WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING ANY EQUIPMENT.	
15. COORDINATE FIXTURE TYPES WITH THE ARCHITECTURAL DRAWINGS. AREAS DESIGNATED FOR USE BY THE HANDICAPPED SHALL BE SUPPLIED WITH FIXTURES AND TRIM AS SET FORTH IN THE "AMERICANS WITH DISABILITIES ACT"(ADA).	
16. ALL PIPING SHALL BE ROUTED ABOVE CEILING UNLESS OTHERWISE INDICATED. ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF STRUCTURE.	
17. ALL WATER PIPING SHALL BE ROUTED ABOVE THE CEILING UNLESS NOTED OTHERWISE. COLD AND HOT WATER PIPING ABOVE GRADE SHALL BE TYPE L HARD DRAWN COPPER TUBING CONFORMING TO ASTM B-88 WITH SWEAT JOINTS AND CAST OR WROUGHT FITTINGS. JOINTS SHALL BE MADE WITH LEAD FREE SOLDER. COLD WATER PIPING BELOW GRADE SHALL BE TYPE K COPPER TUBING WITH CAST OR WROUGHT FITTINGS AND JOINTS AS DESCRIBED ABOVE. JOINTS SHALL NOT BE PERMITTED UNDER FLOOR SLABS. WATER PIPING BELOW GRADE THROUGH CONCRETE SHALL BE PROTECTED WITH PLASTIC SLEEVES.	
18. SANITARY WASTE & VENT, AND STORM DRAIN PIPING ABOVE GROUND SHALL BE SERVICE WEIGHT CAST IRON WITH NO HUB CAST IRON FITTINGS WITH COMPRESSION JOINTS WITH NEOPRENE GASKETS OR PVC WITH SOLVENT JOINTS. PVC WITH SOLVENT JOINTS SHALL NOT BE USED IN A RETURN AIR FLENUM.	
19. SANITARY STACKS SHALL HAVE CLEANOUTS AT THE BASE OF ALL STACKS.	
20. ALL HOT WATER, COLD WATER, HOT WATER RETURN, AND STORM PIPING ABOVE GRADE SHALL BE INSULATED WITH ONE INCH NOMINAL THICKNESS FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER JACKET, OWENS-CORNING AS/JSSLR OR EQUAL. ENDS OF INSULATION SHALL BE TAPED AT ALL FITTINGS. INSULATION SHALL BE CONTINUOUS THROUGHOUT EXCEPT WHERE PENETRATING A FIRE BARRIER.	
21. WASTE, COLD WATER AND HOT WATER PIPING AT HANDICAPPED LAVATORIES SHALL BE INSULATED WITH TRUEBRO "LAV-GUARD" #103.	
22. ALL PIPING PENETRATING CEILINGS AND WALLS SHALL BE INSTALLED WITH CHROME-PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE PROTECTED AS REQUIRED BY THE ARCHITECT.	
23. TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.	
24. ROUTE RELIEF VALVE DISCHARGE FROM WATER HEATER TO NEAREST HUB DRAIN OR TO GRADE OUTDOORS.	
25. ROUTE RELIEF VENTS ON ALL BACKFLOW PREVENTERS TO NEAREST FLOOR DRAIN OR CODE APPROVED DRAINAGE RECEPTACLE.	
26. SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ARCHITECT PRIOR TO ORDERING EQUIPMENT OR INSTALLING ANY PIPING.	
27. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS. ALL PLUMBING EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE WITH THE ELECTRICAL CONTRACTOR.	
28. WATER PIPING ROUTED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION AND WALL INSULATION.	
29. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION.	
30. ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE WORK SHALL BE REPAIRED.	
31. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, PIPING SIZES AND LOCATIONS. EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.	

Architecture
Strategic Planning
Program Management
Interior Design

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REGISTERED
No. 37127
ENGINEER
PROFESSIONAL
RYAN P. SULLIVAN

2/11/2026

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DESIGN DOCUMENTS FOR :

**MIDTOWN
VASCULAR**

**AMBULATORY
SURGICAL
CENTER**

1625 HARDEMAN AVE
MACON, GA 31201

SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
02/11/26		Construction Documents

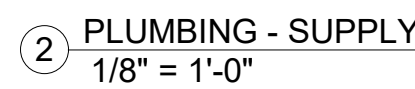
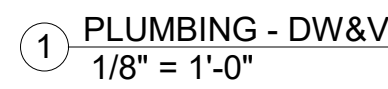
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**PLUMBING
SCHEDULES,
SPECIFICATIONS,
& LEGEND**
SHEET NUMBER

P1

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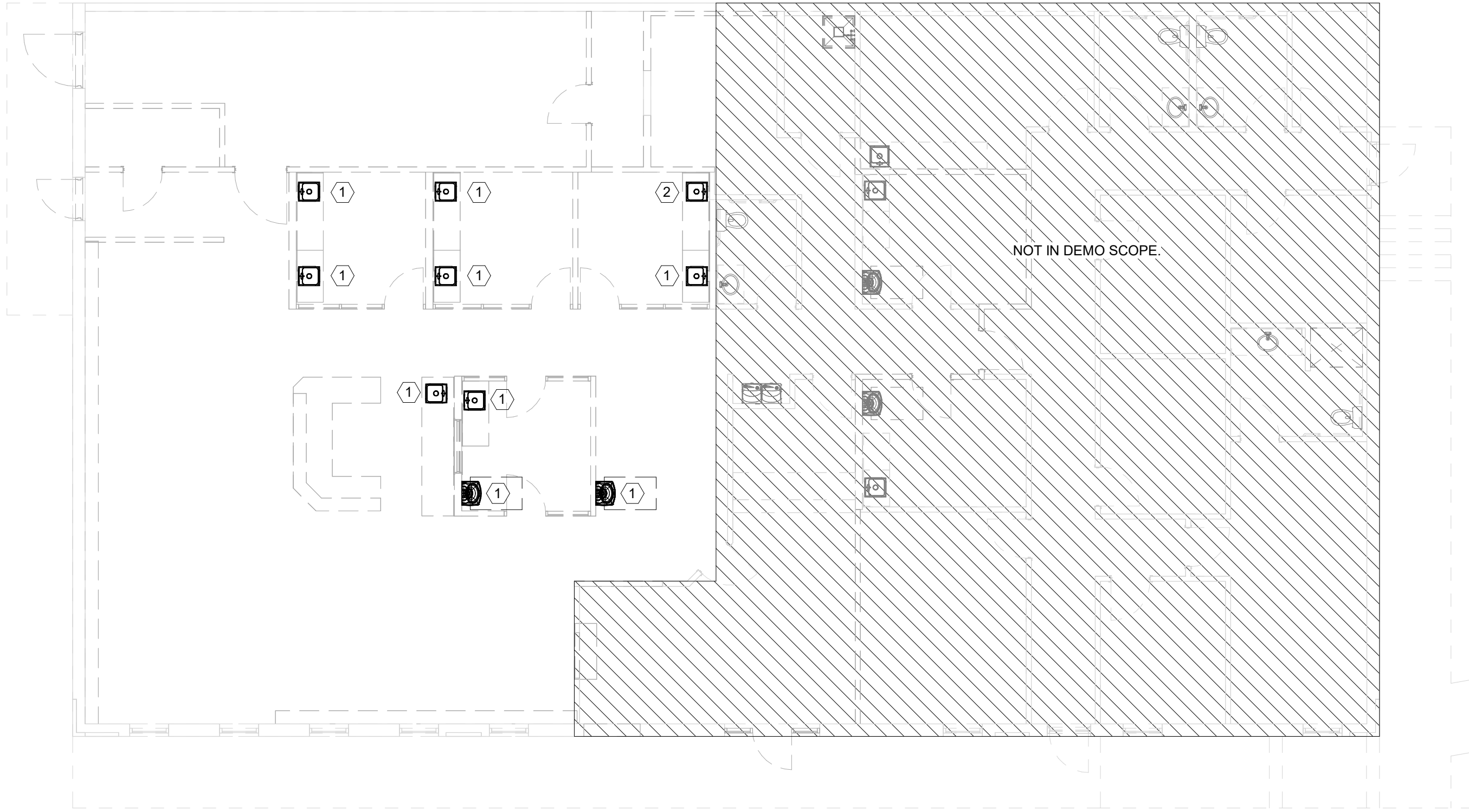
APPOINTED
30 JUL 25

PROJECT
25119



1. LOCATE ALL UNDERGROUND PIPING MAINS AWAY FROM ALL COLUMN FOOTINGS AND FOUNDATIONS. COORDINATE WITH STRUCTURAL UNDERGROUND PRIOR TO ANY INSTALLATION.
2. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE WHENEVER REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY HEALTH AUTHORITY OR, IN CASE NO METHOD IS PRESCRIBED BY IT, THE FOLLOWING:
 - THE SYSTEM OR PARTS THEREOF SHALL BE FILLED WITH WATER-CHLORINE SOLUTION CONTAINING AT LEAST FIFTY (50) PARTS PER MILLION OF CHLORINE, AND THE SYSTEM OF PART THEREOF SHALL BE VALVED-OFF AND ALLOWED TO STAND FOR TWENTY-FOUR (24) HOURS; OR, THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING AT LEAST TWO HUNDRED (200) PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR THREE (3) HOURS.
 - THE FOLLOWING ALLOWED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL THE CHLORINE RESIDUAL IN THE WATER COMING FROM THE SYSTEM DOES NOT EXCEED THE CHLORINE RESIDUAL IN THE FLUSHING WATER.
 - THE PROCEDURE SHALL BE REPEATED IF IT IS SHOWN BY BACTERIOLOGICAL EXAMINATION MADE BY AN APPROVED AGENCY THAT CONTAMINATION PERSISTS IN THE SYSTEM.
3. INSTALL BALL VALVES ON ALL BRANCH SUPPLY LINES.

- 1 CONNECT NEW 4" S TO EXISTING 4" SANITARY IN THIS APPROXIMATE LOCATION. DEMOLISH SANITARY UPSTREAM OF CONNECTION POINT. G C TO FIELD VERIFY SIZE, LOCATION, & INVERT ELEVATION PRIOR TO START OF CONSTRUCTION.
- 2 2" HW DRAIN UNDER COUNTER FOR STERILIZER DRAIN.
- 3 REPLACE EXISTING CIRC PUMP WITH NEW CP-1. SEE PLUMBING SCHEDULE.
- 4 REPLACE EXISTING WATER HEATER WITH NEW WH-1. SEE PLUMBING SCHEDULE.
- 5 KEMPER FLOW SPLITTER 6512002500. PROVIDE NEW HW LOOP AS SHOWN, CONNECT BACK TO FLOW SPLITTER. 1" X 3/4".
- 6 WATER HAMMER ARRESTOR, OATEY 34485 OR EQUAL.
- 7 TRAP PRIMER. SEE DETAIL 2/P4. (TYPICAL)
- 8 ROUTE NEW 3/4" HW LOOP DN IN WALL AND CONNECT TO LAVATORY WITHIN 2'. THEN CONTINUE LOOP.
- 9 1/2" CW TO COUNTERTOP ICE MAKER. PROVIDE INLINE BFP W/STS SD-2 OR EQUAL.



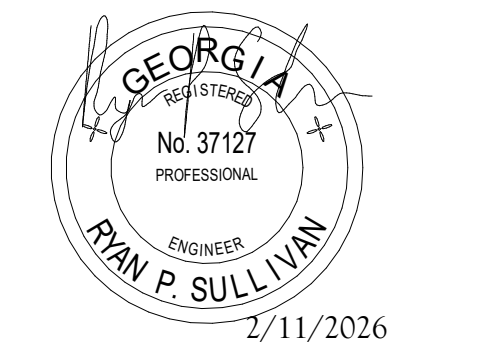
② PLUMBING - DEMO
1/8" = 1'-0"

- DEMO KEYED NOTES:**
- ① PLUMBING FIXTURE TO BE DEMOLISHED. CAP EXISTING SANITARY UNDERGROUND. CAP EXISTING VENT IN WALL/CEILING. VALVE & CAP EXISTING COLD/HOT WATER CONNECTIONS IN CEILING.
 - ② EXISTING SINK TO BE DEMOLISHED & REPLACED. SALVAGE PLUMBING FOR RE-USE. RECONNECT S-1 TO EXISTING PIPING.

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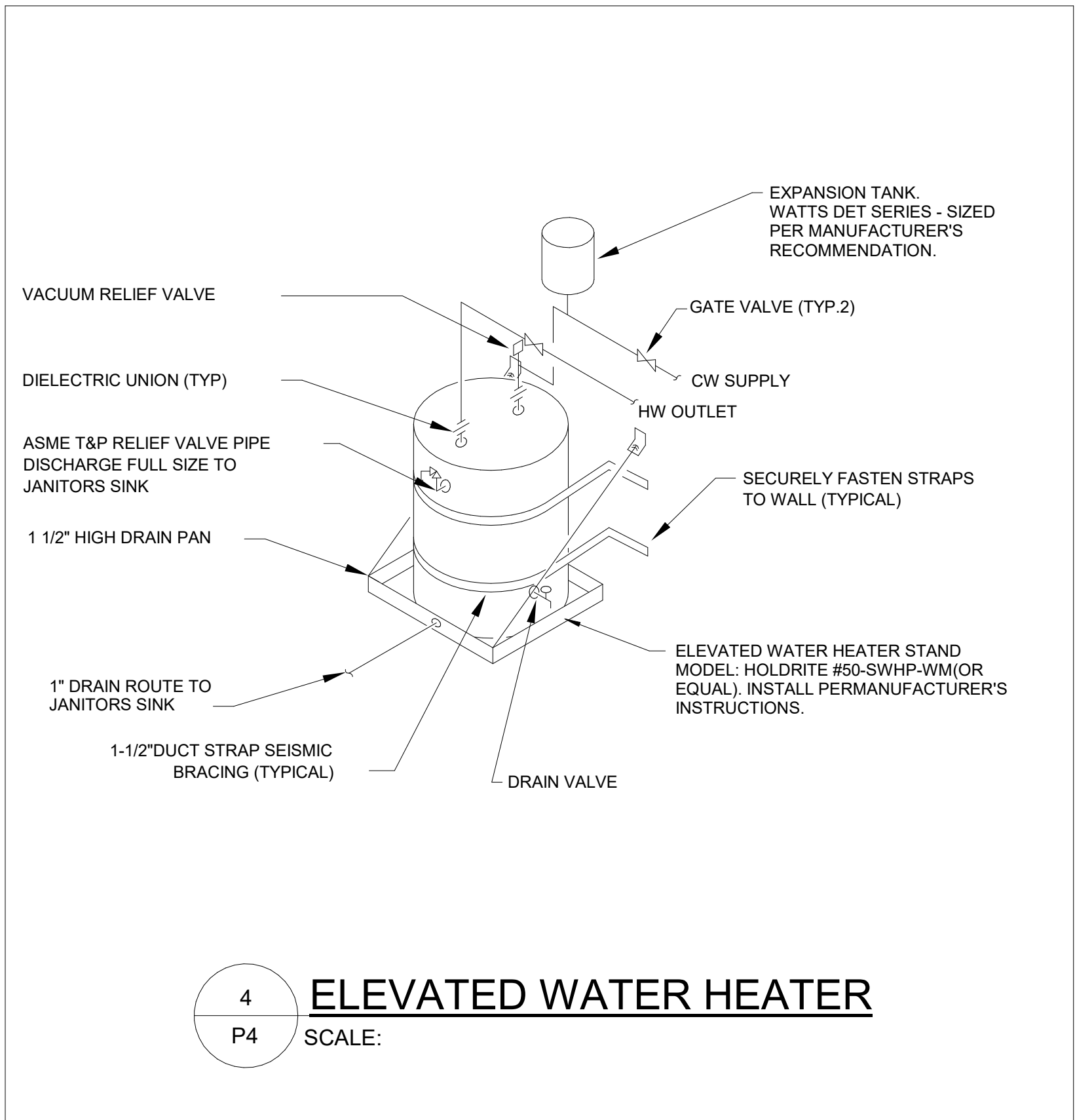
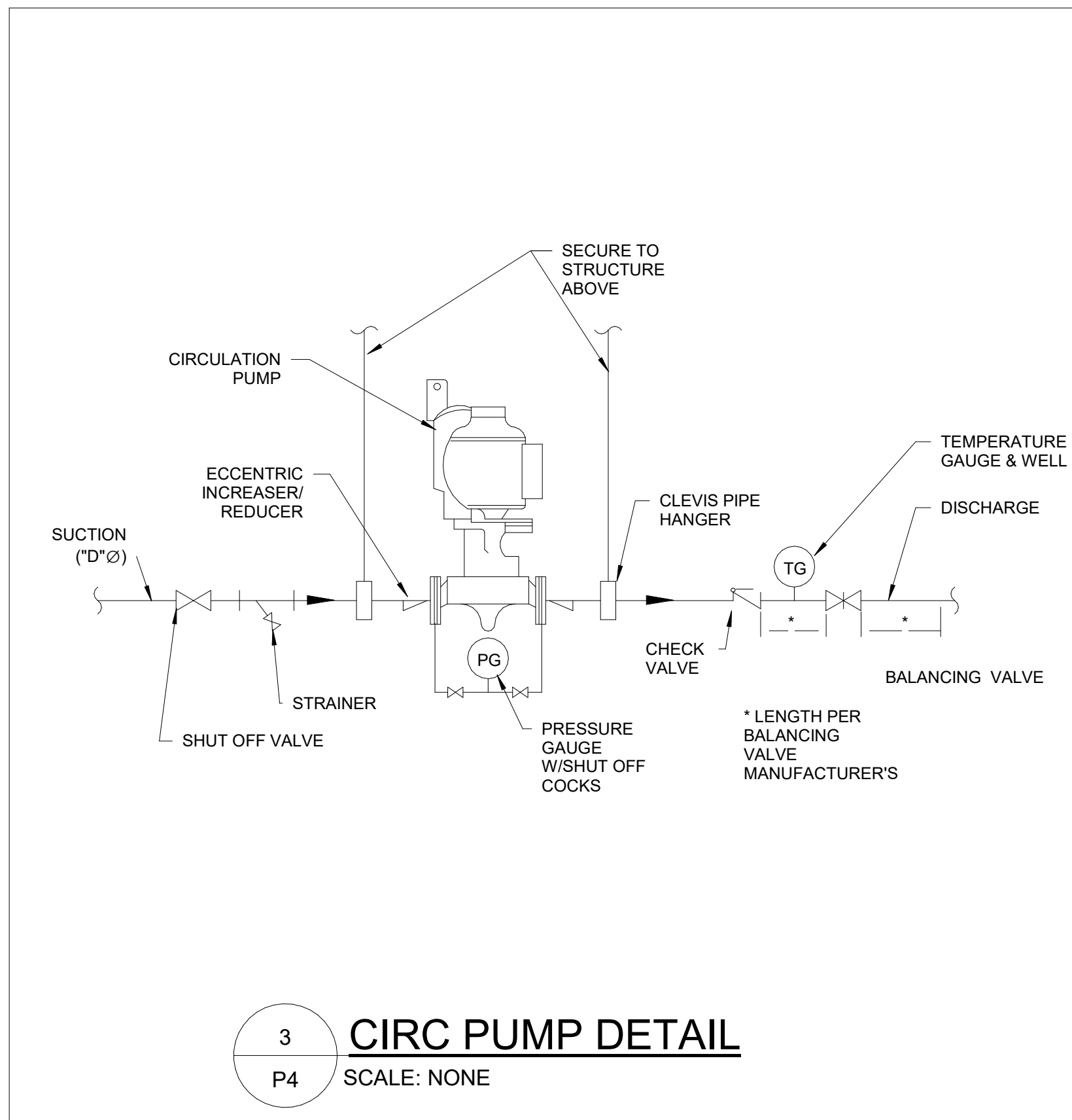
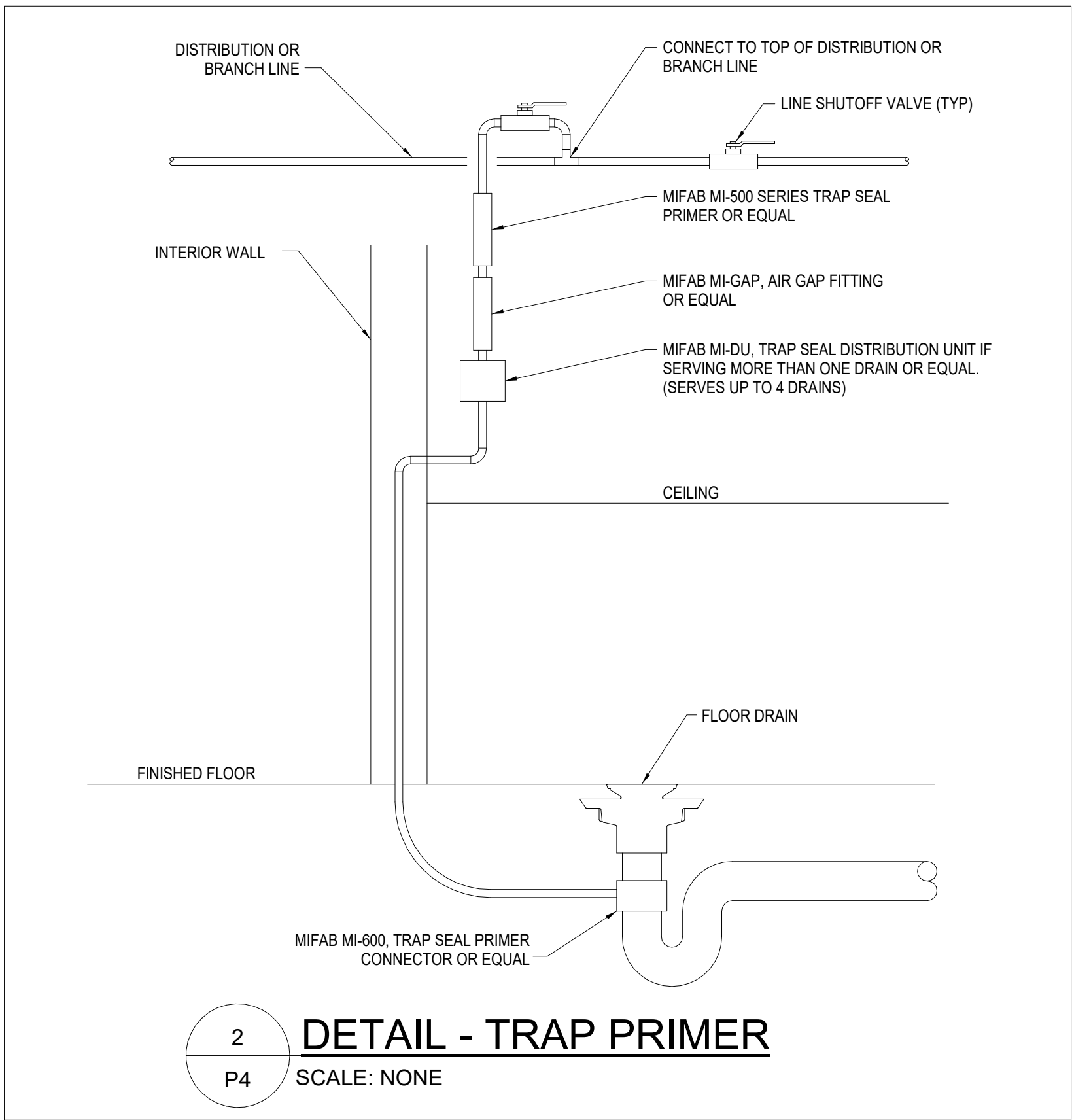
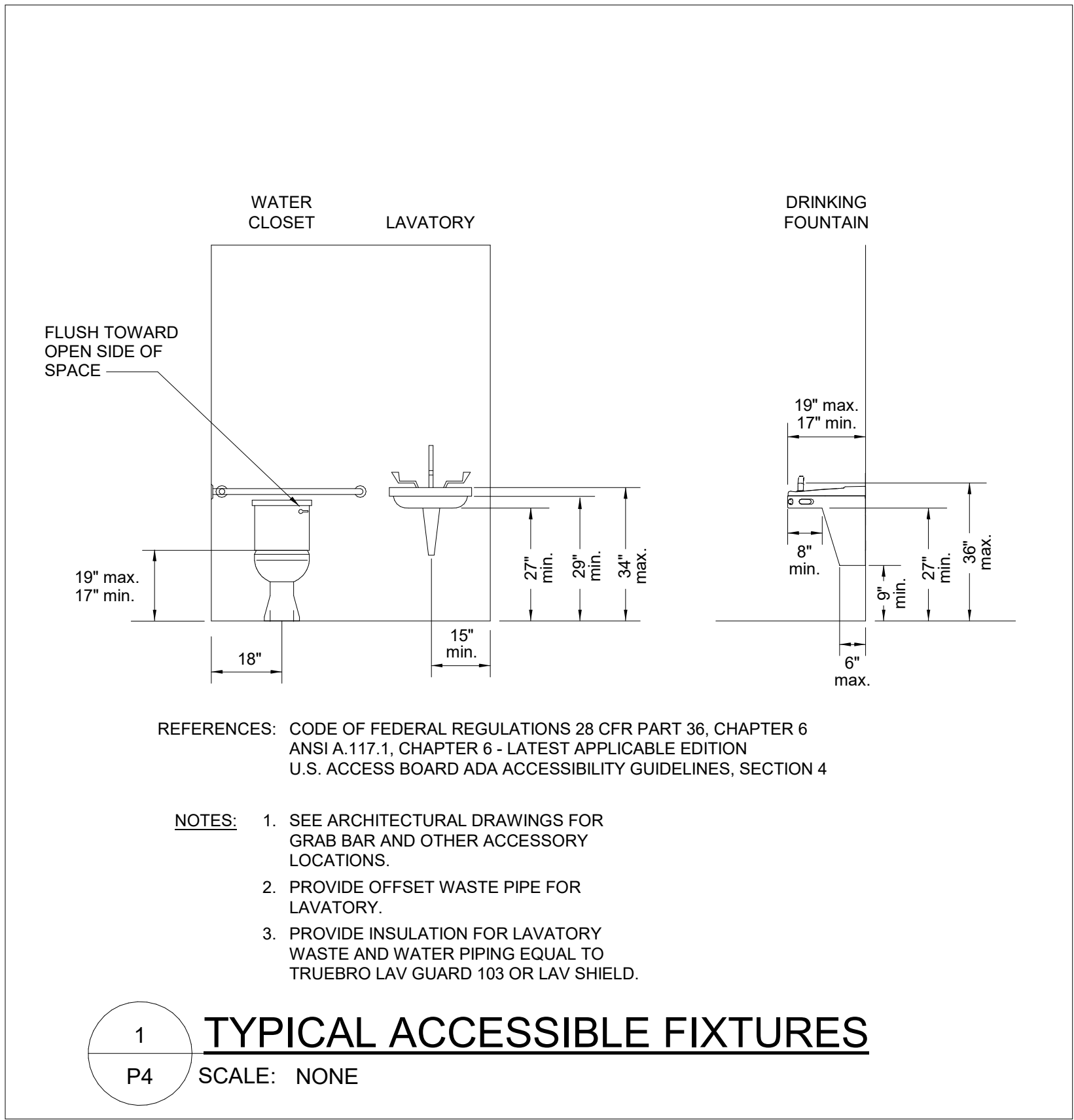
SHEET TITLE

**FLOOR PLAN -
PLUMBING -
DEMO**

SHEET NUMBER

P3

DRAWN BY CMF	APPOINTED 30 JUL 25	PROJECT 25119
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ELECTRICAL SPECIFICATIONS

1. MATERIALS FURNISHED SHALL BE NEW. MATERIALS SHALL BE A MANUFACTURER'S STANDARD AND ESTABLISHED PRODUCT LINE, AND SHALL BE LISTED AND LABELED FOR THE APPLICATION BY UNDERWRITER'S LABORATORIES (U.L.), OR SHALL BE CERTIFIED BY OTHER APPROVED LABORATORY OR BY THE BUILDING OFFICIAL HAVING JURISDICTION.
2. THE PLANS ACCOMPANYING THESE SPECIFICATIONS ARE GENERALLY DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS REQUIRED FOR THE COMPLETE WORK. ESTABLISH DETAILS OF THE WORK AS NECESSARY TO PROVIDE FOR THE COMPLETE INSTALLATION OF SYSTEMS AND MATERIALS. ARRANGE THE WORK SO AS TO AVOID INTERFERENCE WITH OTHER BUILDING COMPONENTS OR SYSTEMS AS ACTUALLY INSTALLED.
3. COMPLY WITH APPLICABLE OR NECESSARY JOB SAFETY PROVISIONS.
4. PROVIDE FOR SYSTEM RACEWAYS, OUTLET BOXES, PULL "WIRES" OR "CORDS", OUTLET BOX OPENINGS, BOX EXTENSIONS, DEDICATED RECEPTACLES, BACKBOARDS, ETC. AS SPECIFIED AND INDICATED. TELEPHONE CABLE SHALL BE FURNISHED AND INSTALLED BY OTHERS.
5. ELECTRICAL SYSTEMS, EQUIPMENT, AND SUPPORTING STRUCTURES SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED. BONDING JUMPERS SHALL BE PROVIDED WHERE NECESSARY. METAL ELECTRICAL RACEWAYS AND FITTINGS, JOINTS AND CONNECTIONS AT EQUIPMENT SHALL BE MECHANICALLY AND ELECTRICALLY SECURED TO PROVIDE AN APPROVED EQUIPMENT OR ENCLOSURE GROUNDING MEANS, EVEN WHEN NO OTHER SEPARATE GROUNDING MEANS ARE ALSO PROVIDED EITHER INHERENTLY OR BY BONDING.
6. WHERE GREEN GROUNDING CONDUCTORS ARE NOT INDICATED SPECIFICALLY FOR EACH BRANCH CIRCUIT BY THE DRAWINGS, PROVIDE FOR EACH RACEWAY A GREEN #12 GROUNDING CONDUCTOR IN ADDITION TO BRANCH CIRCUIT CONDUCTORS INDICATED.
7. UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ARCHITECT FOR SPECIAL APPLICATIONS, WIRING DEVICES SHALL BE INSTALLED WITH CENTER-OF-BOX MOUNTING HEIGHTS ABOVE FINISHED FLOORS BETWEEN 18-INCHES AND 44-INCHES, AS REQUIRED BY HANDICAPPED CODES. MOUNTING HEIGHTS FOR SPECIFIC DEVICES SHALL BE AS SCHEDULED BY THE PLANS.
8. ELECTRICAL CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:
EQUIPMENT GROUND: GREEN
PHASE CONDUCTORS: RED, BLUE, BLACK;
NEUTRAL: WHITE;
9. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY NONFUNCTIONING MATERIAL OR POTENTIALLY UNSAFE CONDITION WITHIN THE PROJECT SYSTEMS THAT IS OBSERVED DURING THE CONDUCT OF THE WORK
10. WORK SHALL BE FURNISHED AND INSTALLED AS A MINIMUM IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS AND RECOMMENDATIONS OF THE LATEST LOCALLY ADOPTED EDITION OF CODES AND STANDARDS OF THE FOLLOWING:
1. NATIONAL ELECTRICAL CODE (NEC) - NFPA 70, 2023 EDITION.
2. ENERGY CODE - ASHRAE/IESNA 90.1.
3. LIFE SAFETY CODE - NFPA 101.
4. OTHER NFPA STANDARDS: 90A AND 99
5. U.L. STANDARDS AND LISTING REQUIREMENTS AND NEMA STANDARDS.
6. FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, CODES, AND RULINGS OF BUILDING OFFICIALS HAVING JURISDICTION IN MONROE, GA.
10. THE WORK COVERED BY THIS SPECIFICATION SHALL INCLUDE PROVIDING SUPERVISION, LABOR, SUPPLIES, MATERIALS (TO INCLUDE EQUIPMENT), TOOLS, SERVICES, DOCUMENTATION, TESTS & DEMONSTRATIONS, CERTIFICATES, AND DOLLAR COSTS REQUIRED TO CONSTRUCT THE COMPLETE SYSTEMS AS SPECIFIED HEREIN AND AS SHOWN BY THE PLANS AND OTHER RELEVANT DOCUMENTS.
11. UNLESS OTHERWISE SPECIFICALLY SHOWN OR NOTED BY ELECTRICAL PLANS, PILOT DUTY CONTROL SYSTEMS AND RELATED WIRING FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED UNDER THE MECHANICAL SECTION OF THE SPECIFICATIONS.
12. SERVICE EQUIPMENT SHALL BE PROVIDED RATED FOR BUILDING LOADS, INCLUDING INTERRUPTING RATINGS. SERVICE EQUIPMENT SHALL BE SERVED USING THE TYPE SERVICE ENTRANCE EQUIPMENT AS INDICATED BY THE PLANS.
13. ALL RECEPTACLES SHALL BE 20A, 125V, SPECIFICATION GRADE, MOUNTED 18" AFF UNLESS NOTED OTHERWISE.
14. FIRE ALARM HORN/SPEAKER AND STROBE DEVICES SHALL BE MOUNTED 80" AFF UNLESS NOTED OTHERWISE.
15. SWITCHES SHALL AS A MINIMUM BE 'HEAVY-DUTY' RATED, QUICK MAKE AND BREAK, SPECIFICATION GRADE, SINGLE THROW DEVICES.
16. STARTERS AND DISCONNECT SWITCHES SHALL HAVE QUICK-MAKE AND QUICK-BREAK MECHANISMS, AND BE FULLY ENCLOSED.
17. FIXTURE SUPPORTS AND HARDWARE SHALL BE SUITABLE METAL UNLESS OTHERWISE INDICATED. SUPPORT STUDS USED FOR INDOOR FIXTURE OR COMPONENT SUPPORT SHALL BE GALVANIZED STEEL OR MALLEABLE IRON; DIECAST STUDS SHALL NOT BE USED. PROVIDE SEISMIC RESTRAINTS ON ALL FIXTURES PER LOCAL REQUIREMENTS.
18. GROUND FAULT PROTECTION FOR APPLIANCES SHALL BE READILY ACCESSIBLE.
19. CONDUCTORS SHALL BE OF SOFT DRAWN, ANNEALED COPPER HAVING A CONDUCTIVITY OF NOT LESS THAN 98 PERCENT BY 'ASTM' STANDARDS.
20. UNLESS OTHERWISE REQUIRED BY CODE OR INDICATED:
A. CONDUCTORS NO. 12 AWG AND NO. 10 AWG SIZE SHALL BE SOLID.
B. CONDUCTORS NO. 8 AWG SIZE AND LARGER SHALL BE STRANDED.
21. RIGID STEEL AND IMC STEEL CONDUIT, WHEN USED, SHALL BE HOT DIP GALVANIZED. STEEL EMT, WHEN USED, SHALL BE HOT DIP GALVANIZED OUTSIDE, AND ENAMEL OR GALVANIZED FINISHED INSIDE.
22. EMT COUPLINGS AND CONNECTORS SHALL BE METAL AND SET-SCREW TYPE.
47. WIRING IN PATIENT CARE AREAS SHALL COMPLY WITH NEC ARTICLE 517.13. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH AN EFFECTIVE GROUND-FAULT CURRENT PATH BY INSTALLATION IN A METAL RACEWAY SYSTEM OR CABLE HAVING A METALLIC ARMOR ASSEMBLY. THE ASSEMBLY OR RACEWAY SHALL ITSELF QUALIFY AS AN EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH NEC 250.118. PROVIDE INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR WITHIN OR PART OF THE ASSEMBLY OR RACEWAY AND BOND RECEPTACLES AND ALL NON-CURRENT CARRYING CONDUCTIVE SURFACES OR FIXED ELECTRICAL EQUIPMENT. SIZE GROUNDING CONDUCTOR IN ACCORDANCE WITH TABLE 250.122. WIRING IN PATIENT CARE AREAS INCLUDING LIGHTS SHALL CONSIST OF A WIRING METHOD THAT COMPLIES WITH THE REQUIREMENTS LISTED ABOVE INCLUDING THE FIXTURE WHIP. ACCEPTABLE WIRING TYPES ARE AC, MC WITH GREEN STRIPE AND LISTED AS HOSPITAL GRADE. OR WIRE-IN-CONDUIT. SUBMIT ALL PATIENT CARE WIRING FOR APPROVAL FROM THE ENGINEER PRIOR TO ROUGH-IN. ALL WIRING IS DEDICATED FROM RECEPTACLE TO PANEL WITH NO SHARED NEUTRALS.

23. THE TELEPHONE AND SOUND SYSTEMS SHALL INCLUDE BACKBOARDS, RACEWAYS, OUTLET BOXES, PULL CORDS IN EMPTY RACEWAYS, COVER PLATES, AND MISCELLANEOUS MATERIALS OR DEVICES FOR TELEPHONE OUTLETS, ETC. AS REQUIRED. PROVIDE CABLE WHERE INDICATED ON THE DRAWINGS.
24. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH UL LISTING RESTRICTIONS AND LOCAL CODES AND ORDINANCES.
25. FIXTURES SHALL BE LOCATED IN A MANNER COORDINATED WITH ANY SUSPENDED ACOUSTIC CEILING PATTERN, AND IN ACCORDANCE WITH PATTERNS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
26. UNLESS OTHERWISE REQUIRED BY CODE OR FUNCTION OR INDICATED BY THE PLANS, CONDUCTORS FOR POWER AND LIGHTING BRANCH CIRCUITS SHALL BE #12 AWG MINIMUM.
27. CONDUCTORS SHALL BE CONNECTED BY U.L. APPROVED CONNECTORS. BRANCH CIRCUIT IRING TO SIZE #8 SHALL BE CONNECTED BY CONNECTORS WITH LIVE SPRING TENSION.
28. WIRING SHALL BE INSTALLED IN METALLIC RACEWAYS AS ALLOWED AND SIZED PER NEC.
29. RACEWAYS AND CABLE SHALL BE RUN CONCEALED, EXCEPT THAT RACEWAYS DESIGNED ONLY FOR SURFACE MOUNTING AND RACEWAYS AND CABLE IN EQUIPMENT ROOMS SHALL BE RUN EXPOSED, UNLESS OTHERWISE INDICATED. CONCEALED CONDUIT RUN ABOVE THE CEILING LINE SHALL BE SUPPORTED INDEPENDENTLY OF CEILING CONSTRUCTION. WHERE CEILINGS OF THE LAY-IN TYPE MAY BE USED, CONDUITS MUST BE INSTALLED HIGH ENOUGH TO PERMIT REMOVAL OF CEILING PANELS OR EQUIPMENT.
30. RACEWAY OR CABLE, ETC. THAT PENETRATES A FIRE BARRIER, SUCH AS FIRE OR SMOKE RATED SLAB, WALL, CEILING, OR OTHER ELEMENT, SHALL BE INSTALLED WITH MATERIALS AND METHODS APPROVED FOR THE APPLICATION BY LOCAL BUILDING OFFICIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING EACH FIRE BARRIER FROM THE ARCHITECTURAL PLANS, AND FOR SECURING APPROVAL OF MATERIALS AND METHODS TO BE USED FOR EACH TYPE PENETRATION.
31. UNLESS OTHERWISE INDICATED, RACEWAYS SHALL BE AS FOLLOWS:
1. CONCEALED INSIDE WHERE NOT IN WET OR DAMP LOCATIONS AND NOT EXPOSED TO MECHANICAL INJURY, AND USED FOR 120V/20A BRANCH CIRCUITS: ELECTRICAL METALLIC TUBING (EMT) OR CABLE THAT IS LISTED IN NEC 250.118 AS AN ACCEPTABLE GROUNDING RETURN PATH, SUCH AS TYPE AC/MC.
2. THROUGH TWO-HOUR RATED FIRE BARRIERS OR BUILDING EXTERIORS: GALVANIZED RIGID STEEL (GRS) CONDUIT MADE UP WATER TIGHT.
3. FINAL CONNECTION RACEWAYS IN DRY LOCATIONS SERVING LIGHTING FIXTURES, OR OTHER NON-MOTOR EQUIPMENT LIKELY TO REQUIRE MOVEMENT FOR ADJUSTMENT OR LIKELY TO TRANSMIT SHOCK OR VIBRATION INTO THE RACEWAY SYSTEM, BUT NOT REQUIRING FLEXIBILITY FOR OPERATION, AND WHERE APPROVED FOR THE APPLICATION SHALL BE FLEXIBLE METALLIC TUBING (FLEX) WHERE APPROVED FOR THE APPLICATION.

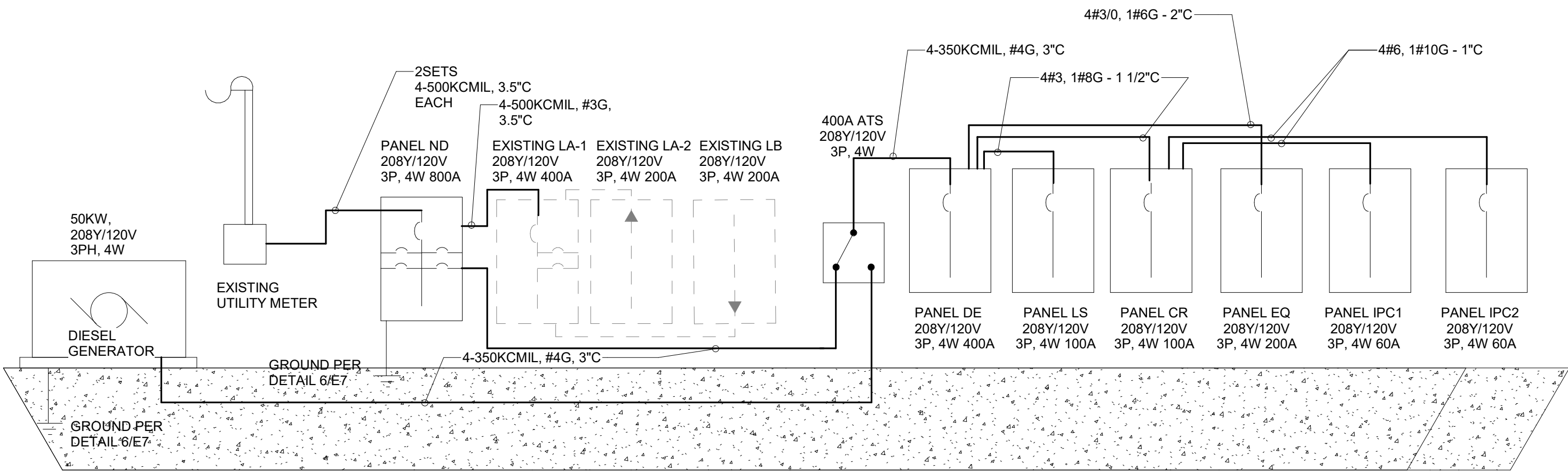
32. BOXES SHALL NOT BE INSTALLED BACK-TO-BACK AND THRU-WALL TYPE BOXES SHALL NOT BE USED DUE TO TRANSMISSION OF SOUND OR HEAT AND SMOKE. OFFSET TO MAINTAIN FIRE RATING PER UL REQUIREMENTS.
33. SUSPENDED CEILING CONSTRUCTION SHALL NOT BE USED TO SUPPORT RACEWAYS, BOXES OR OTHER ITEMS, EXCEPT AS ALLOWED BY CODE, ACCEPTED BY THE ENGINEER, AND ACCEPTED BY THE ARCHITECT IN WRITING FOR THE SPECIFIC ITEM(S) TO BE SUPPORTED.
34. COVER PLATES FOR FLUSH, DRY, ORDINARY LOCATIONS SHALL BE STANDARD CONFIGURATION, ONE PIECE, STANDARD SIZE PLATES WITH MATCHING SCREWS, AND HAVING MATERIALS, STYLES, AND FINISHES AS SELECTED BY ARCHITECT.
35. CONDUIT SYSTEM, IF USED, SHALL BE INSTALLED CONCEALED ABOVE CEILING, ABOVE LOWEST POINT OF STRUCTURAL STEEL SYSTEM LOWER CHORD FOR HORIZONTAL RUNS. INSTALL PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS.
36. CONFIRM THE FOLLOWING WITH THE OWNER PRIOR TO ROUGH-IN: EXACT LOCATIONS OF RECEPTACLES AND VOICE/DATA/TV OUTLETS; EXACT CONNECTION REQUIREMENTS OF OWNER-FURNISHED EQUIPMENT.
37. CONFIRM THE EXACT LOCATIONS OF RECEPTACLES, SWITCHES, VOICE/DATA/TV OUTLETS WITH MILLWORK/CASEWORK DETAILS AND ARCHITECTURAL ELEVATIONS.
38. ALL METAL WATER PIPING, BUILDING STEEL, CONCRETE-ENCASED ELECTRODE SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.
39. INDIVIDUAL SINGLE-POLE BREAKERS, WITH IDENTIFIED HANDLE TIES, SHALL BE INSTALLED AS THE PROTECTION FOR EACH UNDERGROUND CONDUCTOR OF MULTI-WIRE BRANCH CIRCUIT THAT SERVE ONLY SINGLE-PHASE LINE TO NEUTRAL LOADS.
40. ALL PANELS AND DISCONNECTS SHALL BE LABELED WITH NAME AND VOLTAGE.
41. DEMO ALL ABANDONED JUNCTION BOXES AND ABANDONED WIRE BACK TO THE SOURCE.
42. ALL RECEPTACLES, JUNCTION BOXES, IT ROOM EQUIPMENT AND BOXES SHALL HAVE TYPED LABELS.
43. ALL PANELS SHALLS HAVE A TYPED PANEL SCHEDULE.
44. ALL PANELS AND EQUIPMENT SHALL BE CLEAN AND DUST FREE.
45. SEAL NON-RATED EXTERIOR WALL PENETRATIONS TO PREVENT BUG INFESTATION.
46. THERE SHALL BE AN ISOLATION PAD/BARRIER BETWEEN DISSIMILAR TYPES OF METAL.

ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	HOMERUN TO PANEL. ARROWHEADS INDICATE QUANTITY OF CIRCUITS.		OUTLET MOUNTING
	20A/1P UNLESS OTHERWISE NOTED		MISCELLANEOUS OUTLET - CEILING MOUNTED
	HASH MARKS INDICATE QUANTITY OF #12 WIRES IN 1/2" CONDUIT.		MISCELLANEOUS OUTLET - WALL MOUNTED
	SHORT = HOT OR SW. LONG = NEUTRAL. LONG W/BEND = GROUND.		MISCELLANEOUS OUTLET - FLOOR BOX MOUNTED
	NO MARKS INDICATES 2#12, 1#12G - 1/2"		SIMPLEX RECEPTACLE, 20A (+18" AFF UNO)
	CONDUIT CONCEALED IN CEILING OR WALL		DUPLEX RECEPTACLE (+24" AFF IN THE UNIT, +18"AFF COMMON AREA UNO)
	CONDUIT IN FLOOR OR BELOW SLAB		DUPLEX RECEPTACLE (+48" AFF OR 6" ABOVE COUNTER UNO)
	DISCONNECT SWITCH, VOLTAGE AS REQUIRED.		QUADRUPLX RECEPTACLE B(+18" AFF UNO)
	NUMERALS INDICATE: AMPS/POLES/FUSES/WEATHERPROOF		SPECIAL POWER RECEPTACLE, TYPE AS NOTED
	CIRCUIT BREAKER, VOLTAGE AS REQUIRED.		GFCI DUPLEX RECEPTACLE (+18" AFF UNO)
	NUMERALS INDICATE: AMPS/POLES/WEATHERPROOF		GFCI DUPLEX RECEPTACLE (+48" AFF OR 6" ABOVE COUNTER UNO)
	MAGNETIC MOTOR STARTER, VOLTAGE AS REQUIRED.		WEATHER PROOF GFCI DUPLEX RECEPTACLE (+18" AFF UNO)
	NUMERALS INDICATE: TYPE/SIZE		TELEPHONE OUTLET (+24" AFF IN THE UNIT, +18"AFF COMMON AREA UNO)
	COMBINATION FUSED SWITCH / MAGNETIC MOTOR STARTER.		DATA OUTLET (+24" AFF IN THE UNIT, +18"AFF COMMON AREA UNO)
	NUMERALS INDICATE: AMPS/POLES/FUSES & TYPE/SIZE		COMBINATION TEL./DATA OUTLET (+24" AFF IN THE UNIT, +18"AFF COMMON AREA UNO)
	PANELBOARD, FLUSH OR SURFACE MTD. RESPECTIVELY		JUNCTION BOX
	PLYWOOD BACKBOARD, 3/4" THICK, 8" HIGH, WIDTH AS INDICATED		DOOR OPENER
	WIREWAY, SIZE AS REQUIRED		TV BOX
	PULLBOX/JUNCTION BOX, SIZE AS REQUIRED		SWITCHES
	MOTOR, NUMERAL INDICATES HORSEPOWER. "P" = 1/8 HP OR LESS		SINGLE POLE SWITCH
	EPO, EMERGENCY POWER OFF BUTTON IN WEATHERPROOF ENCLOSURE		THREE WAY SWITCH
			SWITCH LOW VOLTAGE, DIMMING & 3WAY CAPABLE
			MOTION SENSOR SWITCH - LEVITON ODS15-ID OR EQUAL
	"DEDICATED", PROVIDE ENGRAVED COVER PLATE		DIMMER SWITCH - 750W
	GROUND FAULT CIRCUIT INTERRUPTER		CEILING MOUNTED OCCUPANCY SENSOR
	WEATHERPROOF		FIRE ALARM
	MOUNTING HT ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE		DUCT SMOKE DETECTOR, PHOTOELECTRIC TYPE
			MANUAL PULL STATION
			WALL/CEILING COMBINATION HORN/SPEAKER & STROBE LIGHT
			WALL/CEILING STROBE LIGHT
	NURSE CALL PULL STATION		WALL/CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE
	NURSE CALL DOME LIGHT		WALL/CEILING HEAT DETECTOR
	NURSE CALL MASTER STATION		WALL/CEILING CARBON MONOXIDE DETECTOR
	NURSE CALL CODE BLUE		WATER FLOW VALVE
	NURSE CALL DUTY STATION		TAMPER SWITCH

GENERAL NOTES:

1. CONTRACTOR SHALL CONFIRM ALL SERVICE ENTRANCE AND METERING REQUIREMENTS WITH LOCAL UTILITY COMPANY PRIOR TO BID AND INSTALLATION.
2. CONTRACTOR SHALL COORDINATE AND VERIFY EXACT FAULT-CURRENT RATING WITH LOCAL POWER UTILITY PRIOR TO ORDERING POWER DISTRIBUTION EQUIPMENT.
3. PROVIDE PERMANENT LABEL WITH AVAILABLE FAULT-CURRENT AND DATE ON EACH NEW PANEL, METER EQUIPMENT AND DISCONNECT SWITCHES PER NEC 110.16.
4. PROVIDE CONDUIT TYPES IN ACCORDANCE WITH NEC 300, PVC SCHEDULE 40 FOR UNDERSLAB, GRS OR PVC SCHEDULE 80 FOR EXPOSED CONDUITS TO DAMAGE OR SERVICE LATERAL CONDUCTORS EXIT TO GROUND, EMT OR MC/AC FOR CONCEALED CONDUITS.
5. ALL FEEDER WIRING SHALL BE 90-DEG C, COPPER WITHIN RACEWAYS. INTERIOR WIRING SHALL BE TYPE THHN. EXTERIOR WIRING SHALL BE TYPE THWN, 90-DEG C. WIRING FOR MOTOR CONNECTIONS SHALL BE TYPE LFMIC.
6. NFPA 110 (2010)§ 1.2 STATES: SEISMIC DESIGN CATEGORY C, D, E, OR F, AS DETERMINED IN ACCORDANCE WITH ASCE 7, SHALL REQUIRE A LEVEL 1 EPSS CLASS X (MINIMUM OF 48 HOURS OF FUEL SUPPLY).
7. U.S. SEISMIC DESIGN MAPS ASCE 7,1625 HARDEMAN AV, MACON, GA 31202. SEISMIC DESIGN CATEGORY B.
8. EMERGENCY GENERATORS SHALL BE AT LEAST TYPE 10, CLASS X(48HRS RUNTIME), LEVEL 1, IN ACCORDANCE WITH NFPA 110, 2010 EDITION STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEM. SEE 2019 NFPA 101, 18.2.9.1 AND 7.9.2.2.
9. PROVIDE #10AWG CU INSULATED GROUND WIRE BETWEEN ALL NORMAL PANELS AND ALL EMERGENCY PANELS.



1 PARTIAL ELECTRICAL RISER DIAGRAM
E1 12" = 1'-0"

Architecture
Strategic Planning
Program Management
Interior Design

**FRANDSEN
ARCHITECTS, PC**

655 Winding Creek Trail
Decatur, GA 30019
Tel: 770.682.1886
info@frandsenarchitects.com
www.frandsenarchitects.com



2/6/2026

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DESIGN DOCUMENTS FOR :

MIDTOWN
VASCULAR

AMBULATORY
SURGICAL
CENTER

1625 HARDEMAN AVE
MACON, GA 31201

SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
	2/11/26	Construction Documents

SHEET TITLE

ELECTRICAL
SPECIFICATIONS
& RISER DIAGRAM

SHEET NUMBER

E1

DRAWN BY	APPOINTED	PROJECT
SJU	30 JUL 25	25119

Architecture
Strategic Planning
Program Management
Interior Design

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GENERAL NOTES:

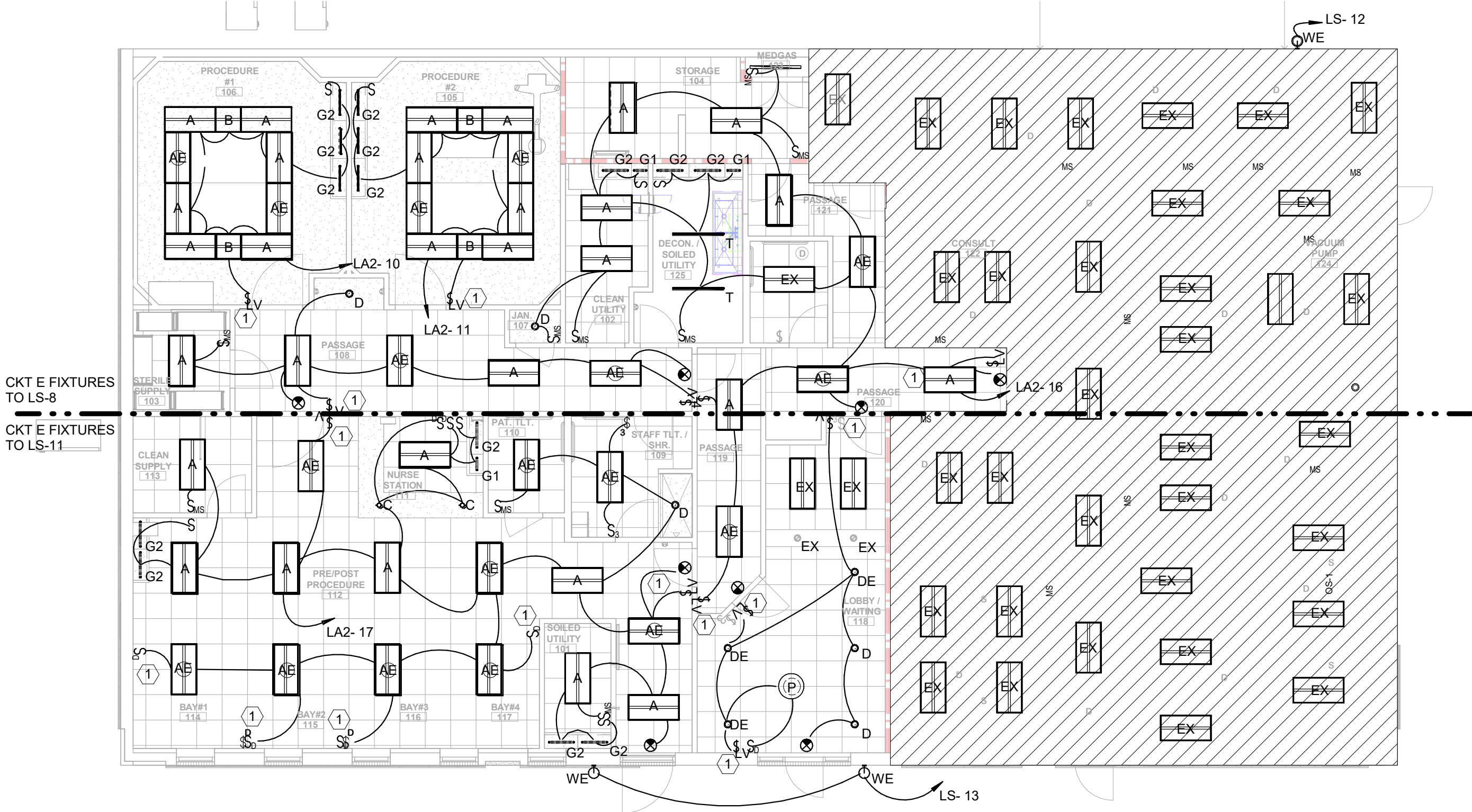
- CONFIRM EXACT LOCATIONS AND CONNECTION REQUIREMENTS OF ALL EQUIPMENT WITH OWNER AND VENDOR PRIOR TO INSTALLATION.
- PROVIDE TYPED LABEL CIRCUIT DESIGNATION ON COVERPLATES FOR ALL RECEPTACLES.
- RECEPTACLES LOCATED ON FIRE WALL SHALL HAVE FIRE RATED PUTTY PADS.
- ALL LIGHTING, ELECTRICAL AND SYSTEMS DEVICES NOT SHOWN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- NO 15A, 120V RECEPTACLES ARE ACCEPTABLE
- CALLOUT "E" INDICATES EQUIPMENT IS EXISTING TO REMAIN.
- CALLOUT "N" INDICATES EQUIPMENT IS NEW.

KEYNOTES:

- ① PROVIDE BODINE UL942 DEVICE AT LOW VOLTAGE WALLSWITCH FOR SWITCHED OR DIMMED EMERGENCY LIGHTING FIXTURES. TRANSFER LIGHTING CIRCUIT TO LIFE SAFETY CIRCUIT. WHEN DEVICE SEES LOSS OF POWER, BRING ALL DIMMED LIGHTS TO 100% BRIGHTNESS AND TURN ON ALL SWITCHED OFF EMERGENCY LIGHTS.

LIGHTING FIXTURE SCHEDULE

Fixture Type	Description	Manufacturer	Catalog #	Voltage	Load	Lamp
A	2X4 LED BASKET STYLE FIXTURE	COLUMBIA	LTRE24-35MLG-RFA-ED-U-G1	120 V	60 VA	
AE	2X4 LED BASKET STYLE FIXTURE (ON EMERGENCY CIRCUIT)	COLUMBIA	LTRE24-35MLG-RFA-ED-U-G1	120 V	41 VA	LED
B	2X2 LED BASKET STYLE FIXTURE	COLUMBIA	LTRE22-35MLG-RFA-ED-U-G1	120 V	21 VA	LED
C	RELOCATED PENDANTS		MATCH EXISTING	120 V	30 VA	LED
D	6" RECESSED LED DOWNLIGHT	PRESCOLITE	LFR-6RD-M-30L35K8-WD-DM1 / LFR-6RD-T-S / LFR-6RD-H	120 V	30 VA	LED
DE	6" RECESSED LED DOWNLIGHT (WIRED TO EMERGENCY CIRCUIT)	PRESCOLITE	LFR-6RD-M-30L35K8-WD-DM1 / LFR-6RD-T-S / LFR-6RD-H	120 V	30 VA	LED
EX	2X4 LED BASKET STYLE FIXTURE	COLUMBIA	LTRE24-35MLG-RFA-ED-U-G1	120 V	41 VA	LED
G1	12"L UNDERCABINET LIGHT	COLUMBIA LIGHTING		120 V	20 VA	
G2	24"L UNDERCABINET LIGHT	COLUMBIA LIGHTING		120 V	20 VA	
P	COORDINATE RELOCATION OF PENDANT, REINSTALL			120 V	60 VA	RELOCATED PENDANT
T	48" LED STRIP STL HOUSING OPEN LENS	COLUMBIA	LCS-4-40-HL-E-U-CSHC	120 V	35 VA	LED
WE			LED WALL PACK ON EMERGENCY CIRCUIT	120 V	25 VA	LED



2 LIGHTING PLAN
E2 1/8" = 1'-0"

SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
1	2/1/26	Construction Documents

SHEET TITLE

FLOOR PLAN -
LIGHTING

SHEET NUMBER

E2

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SPJ

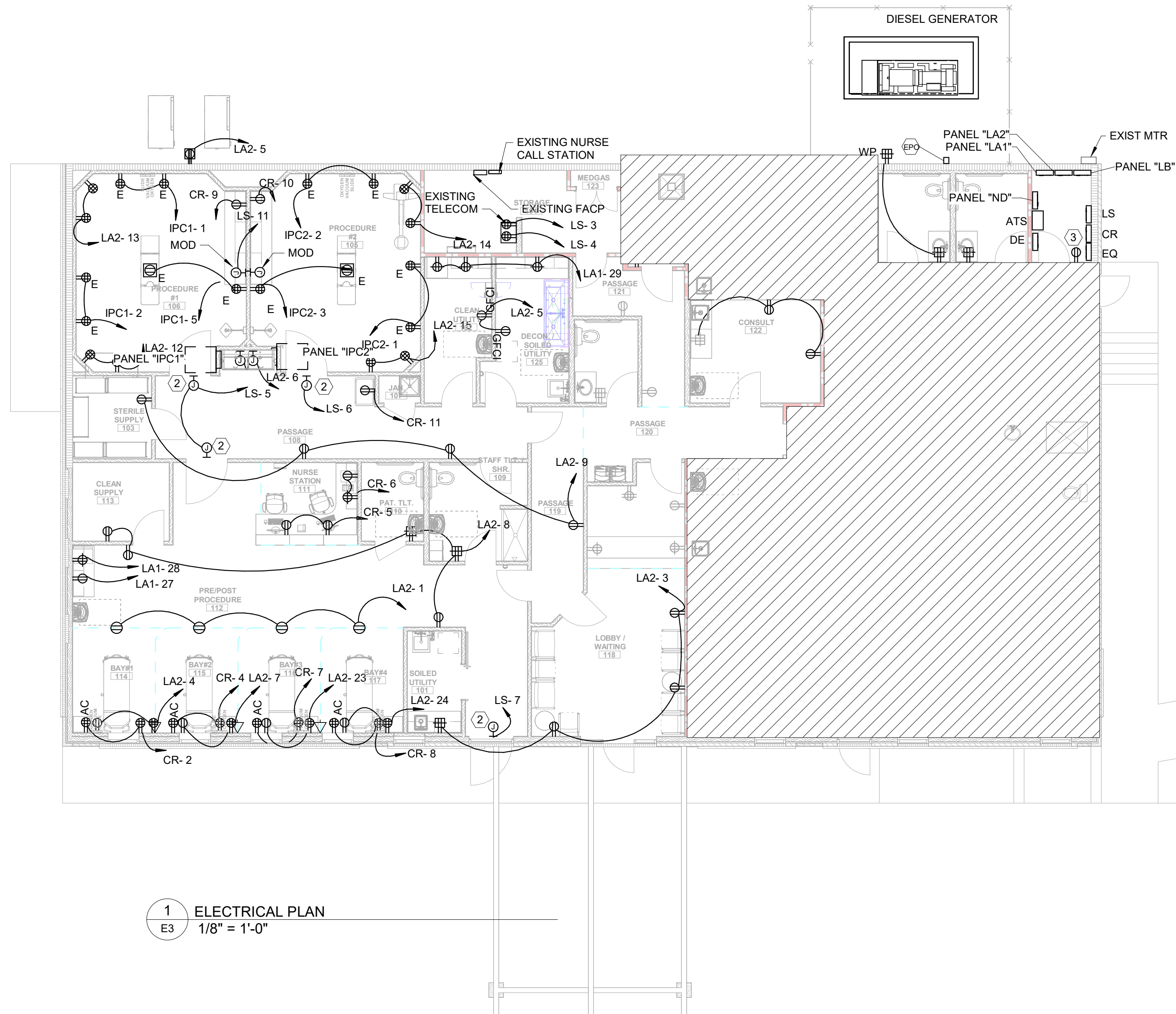
APPPOINTED
30 JUL 25

PROJECT
25119



AMBULATORY
SURGICAL
CENTER

1625 HARDEMAN AVE
MACON, GA 31201



- ① NOT USED.
- ② COORDINATE AUTO OPENER DOOR WITH VENDOR/ARCHITECT.
- ③ REPLACE EXISTING RECEPTACLE WITH GFCI WITH NEW COVERPLATE.

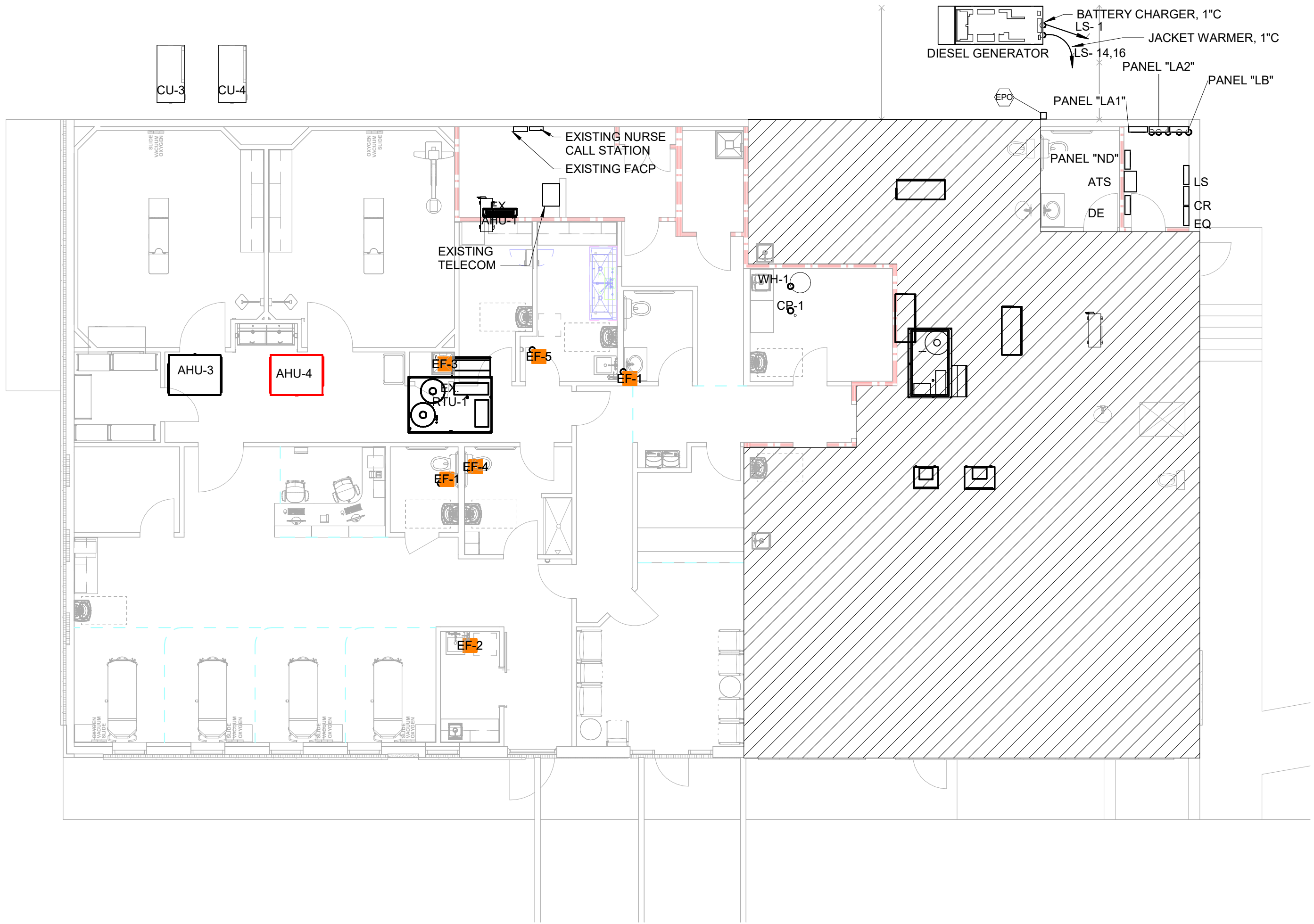
1. CONFIRM EXACT LOCATIONS AND CONNECTION REQUIREMENTS OF ALL EQUIPMENT WITH OWNER AND VENDOR PRIOR TO INSTALLATION.
2. PROVIDE TYPED LABEL CIRCUIT DESIGNATION ON COVER-PLATES FOR ALL RECEPTACLES.
3. RECEPTACLES LOCATED ON FIRE WALL SHALL HAVE FIRE RATED PUTTY PADS.
4. ALL LIGHTING, ELECTRICAL AND SYSTEMS DEVICES NOT SHOWN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
5. NO 15A, 120V RECEPTACLES ARE ACCEPTABLE.
6. WIRING IN PATIENT CARE AREAS SHALL COMPLY WITH NEC 517.13A & B, SEE SPECIFICATION 48 ON SHEET E-0-1.
7. RECEPTACLES SHALL NOT BE LOCATED UNDER MED GAS OUTLETS.
8. WALL TELE/DATA & MISC. LV OUTLETS SHALL HAVE A SINGLE GANG DEVICE RING, AN OUTLET BOX AND A 1" CONDUIT STUBBED UP ABOVE CEILING AND TERMINATED WITH AN INSULATING THUGGING. INSTALL PULL STRING.
9. MATERIALS FURNISHED SHALL BE NEW. MATERIALS SHALL BE A MANUFACTURER'S STANDARD AND ESTABLISHED PRODUCT LINE, AND SHALL BE LISTED AND LABELED FOR THE APPLICATION BY UNDERWRITER'S LABORATORIES (U.L.) OR SHALL BE CERTIFIED BY OTHER APPROVED LABORATORY OR BY THE BUILDING OFFICIAL HAVING JURISDICTION.
10. PROVIDE AND INSTALL RIGID METALLIC SLEEVE FOR ALL 6. FIRE WALL PENETRATIONS AND CAULK PER PENETRATION DETAILS.
11. ALL RECEPTACLES IN EXAM ROOMS, LAB, AND PRE/POST OP 7. SHALL BE HOSPITAL GRADE (5-20R). RECEPTACLES IN OPERATING ROOMS SHALL BE HOSPITAL GRADE (5-20R) AND GFCI PROTECTED.
12. FOR DEMOLISHED AREAS, REMOVE WIRING BACK TO SOURCE, CAP UNUSED CONDUITS. UPDATE PANELBOARD SCHEDULE WITH TYPED SCHEDULE.
13. RECEPTACLES IN LOBBY AND OFFICES WERE ACCESSIBLE TO THE PUBLIC SHALL BE TAMPER-PROOF.

SHEET TITLE

SHEET NUMBER

E3

DRAWN BY	APPOINTED	PROJECT
Author	30 JUL 25	25119



1 MECHANICAL POWER PLAN
E4 1/8" = 1'-0"

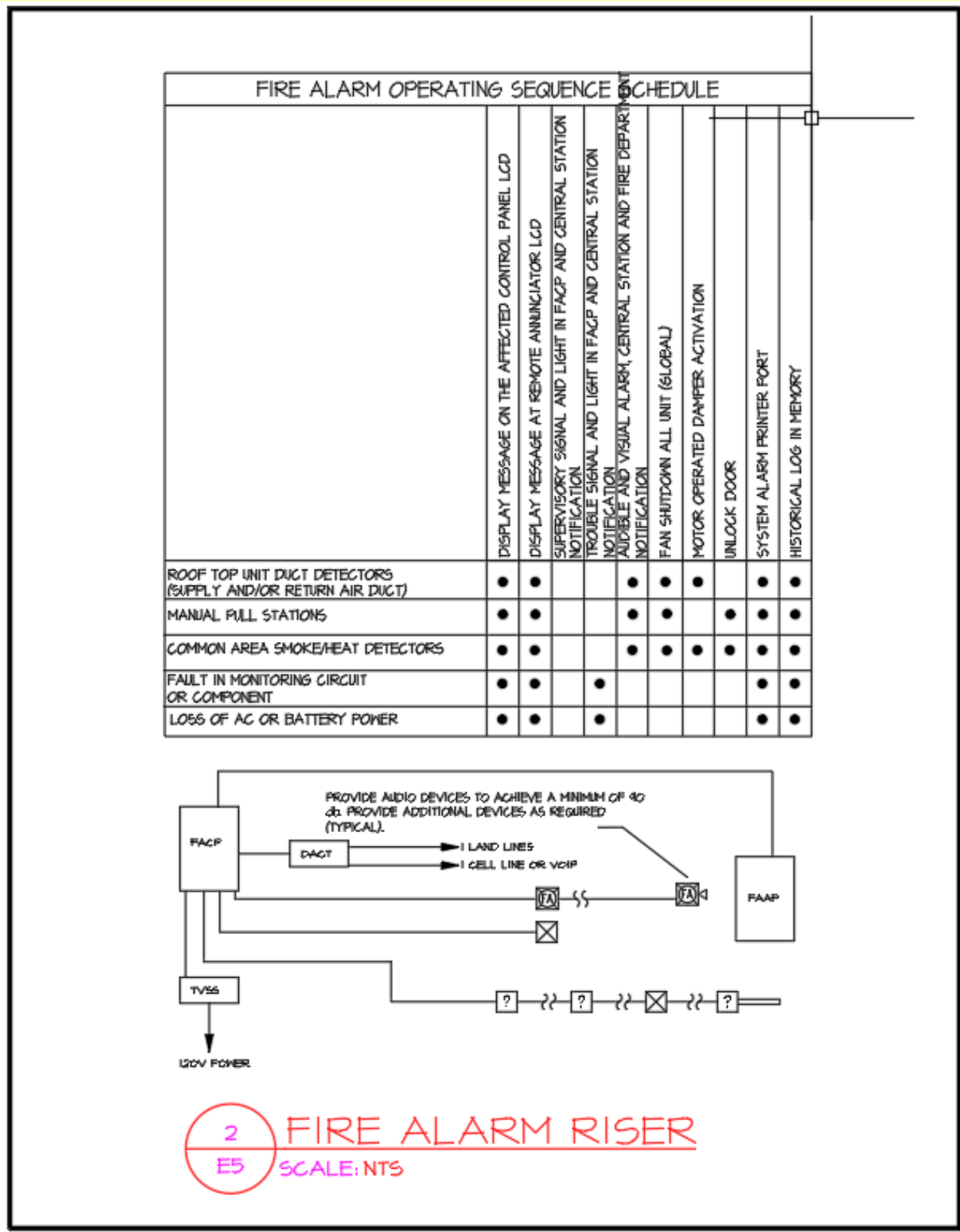
Mechanical Equipment Schedule								
ITEM	DESCRIPTION	LOAD	VOLTAGE	NUMBER OF POLES	DESIGNATION	WIRE SIZE	DISCONNECT	COMMENTS
	EXISTING RTU-1		208 V	3	LA2 18,20,22	EXISTING	EXISTING	
	BATTERY CHARGING		120 V	1	LS 1	2#12,1#12G-3/4"C		
	GEN JACKET WARMER		208 V	2	LS 14,16	2#10,1#10G-3/4"C		
AHU-3	SPLIT SYSTEM INDOOR UNIT	5.3KW	208 V	3	EQ 8,10,12	3#10,1#10G-3/4"C	25/3	TO BE ON EMERGENCY POWER
AHU-4	SPLIT SYSTEM INDOOR UNIT	5.3KW	208 V	3	EQ 2,4,6	3#10,1#10G-3/4"C	25/3	TO BE ON EMERGENCY POWER
CP-1	CIRCULATING PUMP	1/25HP	120 V	1	LA1 8	2#12,1#12G-3/4"C	15/1	
CU-3	SPLIT SYSTEM OUTDOOR UNIT		208 V	3	EQ 7,9,11	3#10,1#12G-3/4"C	30/3R/3/30AF	TO BE ON EMERGENCY POWER
CU-4	SPLIT SYSTEM OUTDOOR UNIT		208 V	3	EQ 1,3,5	3#10,1#12G-3/4"C	30/3R/3/30AF	TO BE ON EMERGENCY POWER
EF-1	EXHAUST FAN	17W	115 V	1		2#12,1#12G-3/4"C	20/1	WIRE TO LIGHTING CIRCUIT
EF-2	EXHAUST FAN	17W	115 V	1		2#12,1#12G-3/4"C	20/1	WIRE TO LIGHTING CIRCUIT
EF-3	EXHAUST FAN	17W	115 V	1		2#12,1#12G-3/4"C	20/1	WIRE TO LIGHTING CIRCUIT
EF-4	EXHAUST FAN	26W	115 V	1		2#12,1#12G-3/4"C	20/1	WIRE TO LIGHTING CIRCUIT
EF-5	EXHAUST FAN	26W	115 V	1		2#12,1#12G-3/4"C	20/1	WIRE TO LIGHTING CIRCUIT
WH-1	WATER HEATER	6KW	208 V	3	LA1 7,9,11	3#10,1#10G-3/4"C	DIRECT CONNECTION	

GENERAL NOTES: (APPLY TO THIS SHEET ONLY)

- ALL ELECTRICAL WORKS SHALL BE COMPLY TO NEC.
- ALL WIRING SHALL BE #12 AWG, COPPER, U.O.N.
- PROVIDE CIRCUIT LABELS AT RECEPTACLES AS REQUIRED. NO SHARED NEUTRALS, U.O.N.
- ALL RECEPTACLES LOCATED ON FIRE-RATED WALL SHALL HAVE FIRE-RATED PUTTY PADS.
- ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY NEC 250-146.
- NO 15A, 120V RECEPTACLES ARE ACCEPTABLE.
- FOR ALL LOW-VOLTAGE OUTLETS, PROVIDE SINGLE-GANG DEVICE RING, OUTLET OX AND A 3/4" EMPTY CONDUIT STUBBED UP ABOVE CEILING SPACE WITH PULL-STRING AND INSULATING BUSHING, U.O.N.
- ALL WIRING DEVICES AND COVERPLATES SHALL BE WHITE IN COLOR.
- PROVIDE POWER CONNECTION FOR MECHANICAL EQUIPMENT PER MECHANICAL EQUIPMENT SCHEDULE. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS. PROVIDE DISCONNECT MEANS AND EQUIPMENT NAMEPLATE AS REQUIREMENT
- PROVIDE DATA CABLES IN QUANTITY INDICATED AT EACH DATA OUTLET.
- COORDINATE FIRE ALARM CONNECTIONS TO DUCT DETECTORS AND MOD WITH MECHANICAL CONTRACTOR.
- PROVIDE 120V, 20A-1P GFI DUPLEX RECEPTACLE ON ROOF IN WP ENCLOSURE WITHIN 25' OF ALL RTU'S AND HVAC EQUIPMENT. CIRCUIT TO PANEL LA2.



1 SYSTEMS PLAN
E5 1/8" = 1'-0"



2/6/2026

IF SEALED, DO NOT COPY

DESIGN DOCUMENTS FOR :

**MIDTOWN
VASCULAR**

**AMBULATORY
SURGICAL
CENTER**

1625 HARDEMAN AVE
MACON, GA 31201

SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
1	2/11/26	Construction Documents

SHEET TITLE

**FLOOR PLAN -
SYSTEMS PLAN**

SHEET NUMBER

E5

DRAWN BY	APPOINTED	PROJECT
Author	30 JUL 25	25119

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GENERATOR SPECIFICATIONS

PART 1 GENERAL

1.01 REFERENCES

A. THE EQUIPMENT COVERED BY THESE SPECIFICATIONS SHALL BE DESIGNED, TESTED, RATED, ASSEMBLED AND INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE STANDARDS OF ANSI, NEC, ISO, U.L., IEEE AND NEMA.

1.02 RELATED SECTIONS

A. DIVISION 3 - CONCRETE

B. DIVISION 15 - MECHANICAL

1.03 WORK INCLUDED

A. THE WORK INCLUDES SUPPLYING A COMPLETE INTEGRATED EMERGENCY GENERATOR SYSTEM. THE SYSTEM CONSISTS OF A DIESEL GENERATOR SET WITH RELATED COMPONENT ACCESSORIES AND AUTOMATIC TRANSFER SWITCH(ES) AS SPECIFIED HEREIN.

B. THE CONTRACTOR SHALL PROVIDE A FULL TANK OF DIESEL FUEL FOR THE COMPLETION OF ALL TESTING.

C. A COMPLETE SYSTEM LOAD TEST SHALL BE PERFORMED AFTER ALL EQUIPMENT IS INSTALLED.

D. THE EQUIPMENT SUPPLIED AND INSTALLED SHALL MEET THE REQUIREMENTS OF THE NEC AND ALL APPLICABLE LOCAL CODES AND REGULATIONS. ALL EQUIPMENT SHALL BE OF NEW AND CURRENT PRODUCTION BY A MANUFACTURER WHO HAS 25 YEARS OF EXPERIENCE BUILDING THIS TYPE OF EQUIPMENT. MANUFACTURER SHALL BE ISO9001 CERTIFIED.

1.04 ACCEPTABLE MANUFACTURERS

A. THERE SHALL BE ONE SOURCE RESPONSIBILITY FOR WARRANTY, PARTS AND SERVICE THROUGH A LOCAL REPRESENTATIVE WITH FACTORY TRAINED SERVICE PERSONNEL.

B. GENERATOR SET

CATERPILLAR / OLYMPIAN

CUMMINS / ONAN

KOHLER

GENERAC IS NOT ALLOWED

C. AUTOMATIC TRANSFER SWITCH(ES)

ASCO

HUBBELL

ZENITH

SUBSTITUTION

1.05 PROPOSED DEVIATIONS FROM THE SPECIFICATIONS SHALL BE TREATED AS FOLLOWS:

REQUESTS FOR SUBSTITUTIONS SHALL BE MADE A MINIMUM OF TEN (10) DAYS PRIOR TO BID DATE. MANUFACTURERS CATALOG DATA SHALL ACCOMPANY EACH REQUEST AND AUTHORIZED ACCEPTANCE SHALL BE BY ADDENDUM ONLY.

THE EMERGENCY POWER SYSTEM HAS BEEN DESIGNED TO THE SPECIFIED MANUFACTURER'S ELECTRICAL AND PHYSICAL CHARACTERISTICS. THE EQUIPMENT SIZING, SPACING, AMOUNTS, ELECTRICAL WIRING, VENTILATION EQUIPMENT, FUEL AND EXHAUST COMPONENTS HAVE ALL BEEN SIZED AND DESIGNED AROUND YANCEY POWER SYSTEMS, CATERPILLAR / OLYMPIAN EQUIPMENT. SHOULD ANY SUBSTITUTIONS BE MADE, THE CONTRACTOR SHALL BEAR RESPONSIBILITY FOR THE INSTALLATION, COORDINATION AND OPERATION OF THE SYSTEM AS WELL AS ANY ENGINEERING AND REDESIGN COSTS, WHICH MAY RESULT FROM SUCH SUBSTITUTIONS.

1.06 SUBMITTALS

A. ENGINE-GENERATOR SUBMITTALS SHALL INCLUDE THE FOLLOWING INFORMATION

FACTORY PUBLISHED SPECIFICATION SHEET INDICATING STANDARD AND OPTIONAL ACCESSORIES, RATINGS, ETC.

MANUFACTURER'S CATALOG CUT SHEETS OF ALL AUXILIARY COMPONENTS SUCH AS AUTOMATIC TRANSFER SWITCHES, BATTERY CHARGER, CONTROL PANEL, ENCLOSURE, MAIN CIRCUIT BREAKER, ETC.

DIMENSIONAL ELEVATION AND LAYOUT DRAWINGS OF THE GENERATOR SET, ENCLOSURE AND TRANSFER SWITCHGEAR AND RELATED ACCESSORIES.

WEIGHTS OF ALL EQUIPMENT.

CONCRETE PAD RECOMMENDATION, LAYOUT AND STUB-UP LOCATIONS OF ELECTRICAL AND FUEL SYSTEMS.

INTERCONNECT WIRING DIAGRAM OF COMPLETE EMERGENCY SYSTEM, INCLUDING GENERATOR, SWITCHGEAR, DAY TANK, REMOTE PUMPS, BATTERY CHARGER, JACKET WATER HEATER, REMOTE ALARM INDICATIONS.

ENGINE MECHANICAL DATA INCLUDING HEAT REJECTION, EXHAUST GAS FLOWS, COMBUSTION AIR AND VENTILATION AIR FLOWS, NOISE DATA, FUEL CONSUMPTION, ETC.

GENERATOR ELECTRICAL DATA INCLUDING TEMPERATURE AND INSULATION DATA, COOLING REQUIREMENTS, EXCITATION RATINGS, VOLTAGE REGULATION, VOLTAGE REGULATOR, EFFICIENCIES, WAVEFORM DISTORTION AND TELEPHONE INFLUENCE FACTOR.

GENERATOR RESISTANCES, REACTANCES, AND TIME CONSTANTS.

GENERATOR MOTOR STARTING CAPABILITY.

CONTROL PANEL SCHEMATICS.

OIL SAMPLING ANALYSIS, LABORATORY LOCATION, AND INFORMATION.

MANUFACTURER'S AND DEALER'S WRITTEN WARRANTY.

1.07 WARRANTY

A. THE MANUFACTURER'S STANDARD WARRANTY SHALL IN NO EVENT BE FOR A PERIOD OF LESS THAN TWO (2) YEARS FROM DATE OF INITIAL START-UP OF THE SYSTEM AND SHALL INCLUDE REPAIR PARTS, LABOR, REASONABLE TRAVEL EXPENSE NECESSARY FOR REPAIRS AT THE JOB SITE, AND EXPENDABLES (LUBRICATING OIL, FILTERS, ANTI-FREEZE, AND OTHER SERVICE ITEMS MADE UNUSABLE BY THE DEFECT) USED DURING THE COURSE OF REPAIR. SUBMITTALS RECEIVED WITHOUT WRITTEN WARRANTIES AS SPECIFIED WILL BE REJECTED IN THEIR ENTIRETY.

1.08 PARTS AND SERVICE QUALIFICATIONS

A. THE ENGINE-GENERATOR SUPPLIER SHALL HAVE SERVICE FACILITIES WITHIN 200 MILES OF THE PROJECT SITE AND MAINTAIN 24-HOUR PARTS AND SERVICE CAPABILITY. THE DISTRIBUTOR SHALL STOCK PARTS AS NEEDED TO SUPPORT THE GENERATOR SET PACKAGE FOR THIS SPECIFIC PROJECT.

B. THE DEALER SHALL MAINTAIN QUALIFIED, FACTORY TRAINED SERVICE PERSONNEL THAT CAN RESPOND TO AN EMERGENCY CALL WITHIN 1 HOUR OF NOTIFICATION, 24 HOURS PER DAY.

PART 2 PRODUCT

2.01 GENERAL REQUIREMENTS

A. THE GENERATOR SET SHALL BE STAND-BY RATED AS SHOWN ON RISER DIAGRAM, 1800 RPM, 0.8 POWER FACTOR, 480V, 3 PHASE, 4 WIRE, 60 HERTZ, INCLUDING RADIATOR FAN AND ALL PARASITIC LOADS.

B. ALL MATERIALS AND PARTS COMPRISING THE UNIT SHALL BE NEW AND UNUSED.

2.02 DIESEL ENGINE

A. THE ENGINE SHALL BE AS MANUFACTURED BY CATERPILLAR OR APPROVED EQUAL. THE ENGINE SHALL BE WATER-COOLED INLINE OR VEE-TYPE, FOUR CYCLE COMPRESSION IGNITION DIESEL. IT SHALL MEET SPECIFICATIONS WHEN OPERATING ON NUMBER 2 DOMESTIC BURNER OIL. TWO CYCLE ENGINES WILL NOT BE CONSIDERED. THE ENGINE SHALL HAVE AIR CLEANER, COOLANT, FUEL AND OIL FILTERS WITH REPLACEABLE AND A FUEL LIFT PUMP.

B. THE ENGINE SHALL HAVE A BATTERY CHARGING DC, ALTERNATOR WITH A TRANSISTORIZED VOLTAGE REGULATOR. STARTING SHALL BE A SOLENOID SHAFT, ELECTRIC STARTER.

C. THE COMPLETE ENGINE BLOCK SHALL BE MACHINED FROM ONE CASTING. DESIGNS INCORPORATING MULTIPLE BLOCKS BOLTED TOGETHER ARE NOT ACCEPTABLE.

D. THE ENGINE SHALL UTILIZE A GEAR-TYPE, POSITIVE DISPLACEMENT, FULL PRESSURE LUBRICATING OIL PUMP AND WATER-COOLED LUBE OIL COOLER.

E. FUEL FILTER AND SERVICEABLE FUEL SYSTEM COMPONENTS SHALL BE LOCATED TO PREVENT FUEL FROM SPILLING ONTO GENERATOR SET BATTERIES.

F. FOR GENSETS RATED LESS THAN 125KW, ENGINE SPEED SHALL BE GOVERNED BY A MECHANICAL GOVERNOR TO MAINTAIN STEADY STATE ALTERNATOR FREQUENCY WITHIN +/- 0.8% OF RATED FREQUENCY. SPEED DROOP WILL BE A MAXIMUM OF 4% FROM NO LOAD TO FULL LOAD. THE GOVERNOR SHALL BE EQUIPPED WITH SPEED ADJUSTMENT.

2.03 GENERATOR

A. THE SYNCHRONOUS GENERATOR SHALL BE A SINGLE BEARING, SELF-VENTILATED, DRIP-PROOF DESIGN IN ACCORDANCE WITH NEMA MG 1 AND DIRECTLY CONNECTED TO THE ENGINE FLYWHEEL HOUSING WITH A FLEX COUPLING.

B. THE INSULATION MATERIAL SHALL MEET NEMA STANDARDS FOR CLASS H INSULATION AND BE VACUUM IMPREGNATED WITH EPOXY VARNISH TO BE FUNGUS RESISTANT. THE EXCITATION SYSTEM SHALL BE OF BRUSHLESS CONSTRUCTION.

C. THE BRUSHLESS EXCITER SHALL BE INDEPENDENT OF MAIN STATOR WINDINGS (EITHER PERMANENT MAGNET OR AUXILIARY WINDINGS) AND SHALL CONSIST OF A THREE-PHASE FULL WAVE BRIDGE RECTIFIER MOUNTED ON THE ROTOR SHAFT. SURGE SUPPRESSORS SHALL BE INCLUDED TO PROTECT THE DIODES FROM VOLTAGE SPIKES. GENERATOR SHALL HAVE THE ABILITY TO SUSTAIN SHUNT CURRENT OF 300% OF RATED CURRENT TO ALLOW PROTECTIVE DEVICES TO OPERATE.

D. THE AUTOMATIC VOLTAGE REGULATOR (AVR) SHALL MAINTAIN GENERATOR OUTPUT VOLTAGE WITHIN +/- 0.5% FOR ANY CONSTANT LOAD BETWEEN NO LOAD AND FULL LOAD. THE REGULATOR SHALL BE A TOTALLY SOLID STATE DESIGN WHICH INCLUDES ELECTRONIC VOLTAGE BUILDUP, VOLTS PER HERTZ REGULATION, OVER-EXCITATION PROTECTION, SHALL LIMIT VOLTAGE OVERSHOOT ON STARTUP, AND SHALL BE ENVIRONMENTALLY SEALED.

2.04 CIRCUIT BREAKER

A. PROVIDE A GENERATOR MOUNTED CIRCUIT BREAKER, MOLDED CASE OR INSULATED CASE CONSTRUCTION. SEE RISER FOR SIZE, 3 POLE. BREAKER SHALL BE ABB OR EQUAL AND UTILIZE A THERMAL MAGNETIC TRIP. STEEL NEMA 1 ENCLOSURE MOUNTED ON A SEPARATE SUPPORT STAND VIBRATION ISOLATED FROM THE ENGINE / GENERATOR ARRANGEMENT. BUS BARS, SIZED FOR THE CABLE TYPE SHOWN ON DRAWING, SHALL BE SUPPLIED ON THE LOAD SIDE OF BREAKER.

2.05 CONTROLS

A. GENERATOR MOUNTED CONTROL PANEL

PROVIDE A GENERATOR SET MOUNTED CONTROL PANEL FOR COMPLETE CONTROL AND MONITORING OF THE ENGINE AND GENERATOR SET FUNCTIONS. PANEL SHALL INCLUDE AUTOMATIC START/STOP OPERATION, CYCLE CRANKING, AC METERING WITH PHASE SELECTOR SWITCH, SHUTDOWN SENSORS AND ALARMS WITH HORN AND RESET, ADJUSTABLE COOLDOWN TIMER AND EMERGENCY STOP PUSH-BUTTON.

CRITICAL COMPONENTS SHALL BE ENVIRONMENTALLY SEALED TO PROTECT AGAINST FAILURE FROM MOISTURE AND DIRT. COMPONENTS SHALL BE HOUSED IN A NEMA 1/1P22 ENCLOSURE WITH HINGED DOOR. THE PANEL ITSELF SHALL BE MOUNTED ON A SEPARATE SUPPORT STAND ISOLATED FROM THE ENGINE / GENERATOR ARRANGEMENT. PANEL / BREAKER ARRANGEMENTS MOUNTED ON THE GENERATOR SET IN SUCH A WAY THAT ACCESS TO THE AC GENERATOR TERMINAL BOX IS RESTRICTED IN ANY WAY WHATSOEVER ARE NOT ACCEPTABLE.

PROVIDE THE FOLLOWING READOUTS:

ENGINE OIL PRESSURE

COOLANT TEMPERATURE

ENGINE RPM

SYSTEM DC VOLTS

ENGINE RUNNING HOURS

GENERATOR AC VOLTS

GENERATOR AC AMPS

GENERATOR FREQUENCY

CONTROL PANEL ANNUNCIATION - PROVIDE THE FOLLOWING INDICATIONS FOR PROTECTION AND DIAGNOSTICS ACCORDING TO NFPA 110 LEVEL 1:

LOW OIL PRESSURE

HIGH WATER TEMPERATURE

LOW COOLANT LEVEL

OVERSPEED

OVERCRANK

EMERGENCY STOP DEPRESSED

APPROACHING HIGH COOLANT TEMPERATURE

APPROACHING LOW OIL PRESSURE

LOW COOLANT TEMPERATURE

LOW VOLTAGE IN BATTERY

CONTROL SWITCH NOT IN AUTO. POSITION

LOW FUEL MAIN TANK

BATTERY CHARGER AC FAILURE

HIGH BATTERY VOLTAGE

TWO (2) SPARE

B. REMOTE ANNUNCIATOR

REMOTE ANNUNCIATOR PANEL - PROVIDE A REMOTE ANNUNCIATOR TO MEET THE REQUIREMENTS OF NFPA 110, LEVEL 1. THE ANNUNCIATOR SHALL PROVIDE REMOTE ANNUNCIATION OF ALL POINTS STATED ABOVE AND SHALL INCORPORATE RING-BACK CAPABILITY SO THAT AFTER SILENCING THE INITIAL ALARM, ANY SUBSEQUENT ALARMS WILL SOUND THE HORN. PROVIDE ALARM INDICATION FOR "GENERATOR GROUND FAULT" ON SOLIDLY GROUND WYE SYSTEMS OF MORE THAN 150 VOLTS TO GROUND AND CIRCUIT BREAKERS RATED 1000 AMP OR MORE, TO MEET NEC. LOCATE REMOTE ANNUNCIATOR IN THE BUSINESS OFFICE. CONNECT WITH COMMUNICATION WIRING TO THE GENERATOR THROUGH UNDERGROUND CONDUIT. INTERLOCK RUN WITH FACP.

2.06 COOLING SYSTEM

A. THE GENERATOR SET SHALL BE EQUIPPED WITH A RAIL-MOUNTED, ENGINE-DRIVEN RADIATOR WITH BLOWER FAN AND ALL ACCESSORIES. THE COOLING SYSTEM SHALL BE SIZED TO OPERATE AT FULL LOAD CONDITIONS AND 122°F (50°C) AMBIENT AIR ENTERING THE ENCLOSURE. THE GENERATOR SET SUPPLIER IS RESPONSIBLE FOR PROVIDING A PROPERLY SIZED COOLING SYSTEM BASED ON THE ENCLOSURE STATIC PRESSURE RESTRICTION.

2.07 FUEL SYSTEM

A. FILTER/SEPARATOR - IN ADDITION TO THE STANDARD FUEL FILTERS PROVIDED BY THE ENGINE MANUFACTURER, THERE SHALL ALSO BE INSTALLED A PRIMARY FUEL FILTER/WATER SEPARATOR IN THE FUEL INLET LINE TO THE ENGINE.

B. ALL FUEL PIPING SHALL BE BLACK IRON OR FLEXIBLE FUEL HOSE RATED FOR THIS SERVICE. NO GALVANIZED PIPING WILL BE PERMITTED.

C. FLEXIBLE FUEL LINES SHALL BE RATED FOR 300 DEGREES F AND 100 PSI.

2.08 EXHAUST SYSTEM

A. A RESIDENTIAL TYPE SILENCER (MINIMUM), COMPANION FLANGES, AND FLEXIBLE STAINLESS STEEL EXHAUST FITTING PROPERLY SIZED SHALL BE FURNISHED AND INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

B. THE SILENCER SHALL BE MOUNTED SO THAT ITS WEIGHT IS NOT SUPPORTED BY THE ENGINE.

C. EXHAUST PIPE SIZE SHALL BE SUFFICIENT TO ENSURE THAT EXHAUST BACK PRESSURE DOES NOT EXCEED THE MAXIMUM LIMITATIONS SPECIFIED BY THE ENGINE MANUFACTURER.

2.09 STARTING SYSTEM

A. A DC ELECTRIC STARTING SYSTEM WITH POSITIVE ENGAGEMENT SHALL BE FURNISHED. THE MOTOR VOLTAGE SHALL BE AS RECOMMENDED BY THE ENGINE MANUFACTURER.

B. THE HEATER WATT RATING SHALL BE SIZED BY THE MANUFACTURER TO MAINTAIN JACKET WATER TEMPERATURE AT 90 °F MINIMUM, AND SHALL BE A 208 VOLT, SINGLE PHASE, 60 HERTZ.

C. BATTERIES: A LEAD-ACID STORAGE BATTERY SET OF THE HEAVY DUTY DIESEL STARTING TYPE SHALL BE PROVIDED. BATTERY VOLTAGE SHALL BE COMPATIBLE WITH THE STARTING SYSTEM. THE BATTERY SET SHALL BE RATED NO LESS THAN 75 AMPERE HOURS. NECESSARY CABLES AND CLAMPS SHALL BE PROVIDED.

D. A BATTERY TRAY SHALL BE PROVIDED FOR THE BATTERIES AND SHALL CONFORM TO NEC 480-7(B). IT SHALL TREATED TO BE RESISTANT TO DETERIORATION BY BATTERY ELECTROLYTE. FURTHER, CONSTRUCTION SHALL BE SUCH THAT ANY SPILLAGE OR BOIL-OVER BATTERY ELECTROLYTE SHALL BE CONTAINED WITHIN THE TRAY TO PREVENT A DIRECT PATH TO GROUND.

E. BATTERY CHARGER: A CURRENT LIMITING BATTERY CHARGER SHALL BE FURNISH TO AUTOMATICALLY RECHARGE BATTERIES. THE CHARGER SHALL BE DUAL CHARGE RATE WITH AUTOMATIC SWITCHING TO THE BOOST RATE WHEN REQUIRED. IT SHALL INCLUDE OVERLOAD PROTECTION, SILICON DIODE FULL WAVE RECTIFIERS, VOLTAGE SURGE SUPPRESSOR, DC AMMETER, DC VOLT-METER, AND FUSED AC INPUT. AC INPUT VOLTAGE SHALL BE 120 VOLTS, SINGLE PHASE. AMPERAGE OUTPUT SHALL BE NO LESS THAN TEN (10) AMPERES. ON OUTDOOR UNITS THE BATTERY CHARGER SHALL BE MOUNTED INSIDE THE GENSET ENCLOSURE.

2.10 GENERATOR SET ENCLOSURE - SOUND ATTENUATED

A. THE COMPLETE DIESEL ENGINE GENERATOR SET, INCLUDING GENERATOR CONTROL PANEL, ENGINE STARTING BATTERIES AND FUEL OIL TANK, SHALL BE ENCLOSED IN A FACTORY ASSEMBLED, SOUND ATTENUATED ENCLOSURE MOUNTED ON THE FUEL TANK BASE.

B. THE ENCLOSURE SHALL BE CONSTRUCTED OF GALVATITE (CORROSION RESISTANT) STEEL, WITH ELECTROSTATICALLY APPLIED POWDER COATED BAKED POLYESTER PAINT. THE ENCLOSURE SHALL HAVE A RESULTING SOUND LEVEL OF 77 DBA AT 23 FEET WITH THE GENSET RUNNING UNDER FULL LOAD. IT SHALL CONSIST OF A ROOF, SIDE WALLS, AND END WALLS. FASTENERS SHALL BE EITHER ZINC PLATED OR STAINLESS STEEL.

C. A DUAL WALL FUEL TANK BASE OF 24 HOUR CAPACITY AT 100% LOAD OR A MINIMUM OF 300 GALLONS(GENSET CONSUMES 12.3 GAL/HR AT FULL LOAD) SHALL BE PROVIDED AS AN INTEGRAL PART OF THE ENCLOSURE. IT SHALL BE CONTAINED IN A RUPTURE BASIN WITH 110% CAPACITY. THE TANK SHALL BE PRESSURE TESTED FOR LEAKS PRIOR TO SHIPMENT AND HAVE ALL NECESSARY VENTING PER UL 142 STANDARDS. A LOCKING FILL CAP, A MECHANICAL READING FUEL LEVEL GAUGE, LOW FUEL LEVEL ALARM CONTACT, AND FUEL TANK RUPTURE ALARM CONTACT SHALL BE PROVIDED.

D. NUMBER OF DOORS ON ENCLOSURE SHALL BE AS REQUIRED SO THAT ALL NORMAL MAINTENANCE OPERATIONS, SUCH AS LUBE OIL CHANGE, FILTER CHANGE, BELT ADJUSTMENT AND REPLACEMENTS, HOSE REPLACEMENTS, ACCESS TO THE CONTROL PANELS, ETC., MAY BE ACCOMPLISHED WITHOUT DISASSEMBLY OF THE ENCLOSURE COMPONENTS. ACCESS DOORS SHALL BE FABRICATED OF THE SAME MATERIAL AS THE ENCLOSURE WALLS AND SHALL BE REINFORCED FOR RIGIDITY.

E. HANDLES SHALL BE KEY LOCKABLE, ALL DOORS KEYED ALIKE, AND HINGES SHALL BE ZINC DIE CAST OR STAINLESS STEEL. FASTENERS SHALL BE ZINC PLATED OR STAINLESS STEEL. DOORS SHALL BE OF A LIFT OFF DESIGN ALLOWING ONE PERSON TO REMOVE DOOR IF NECESSARY.

F. AIR HANDLING WILL BE SIZED AND DESIGNED BY THE MANUFACTURER FOR 0.5" STATIC PRESSURE DROP THROUGH ENCLOSURE. INTAKE OPENINGS SHALL BE SCREENED TO PREVENT THE ENTRANCE OF RODENTS.

G. LUBE OIL AND COOLANT DRAINS SHALL BE EXTENDED TO THE EXTERIOR OF THE ENCLOSURE AND TERMINATED WITH DRAIN VALVES. RADIATOR ACCESS SHALL BE THROUGH A HINGED, LOCKABLE COVER ON ENCLOSURE. COOLING FAN AND CHARGING ALTERNATOR SHALL BE FULLY GUARDED TO PREVENT INJURY.

H. ENCLOSURE MANUFACTURER SHALL INTERNALLY MOUNT THE EXHAUST SILENCER(S) AND MAINTAIN THE WEATHER RESISTANT INTEGRITY AND AESTHETIC APPEARANCE OF THE SYSTEM. EXTERNALLY MOUNTED SILENCERS WILL NOT BE PERMITTED FOR SAFETY AND AESTHETIC REASONS.

I. LIFTING POINTS SHALL BE PROVIDED ON BASE FRAME SUITABLE FOR LIFTING COMBINED WEIGHT OF BASE TANK, GENERATOR SET AND ENCLOSURE.

2.11 AUTOMATIC TRANSFER SWITCH(ES)

A. GENERAL

THE TRANSFER SWITCH SHALL BE RATED FOR 480V THREE PHASE AND AN AMPACITY OF 200A OR GREATER THAN AND SHALL HAVE 600 VOLT INSULATION ON ALL PARTS IN ACCORDANCE WITH NEMA STANDARDS.

THE CURRENT RATING SHALL BE A CONTINUOUS RATING WHEN THE SWITCH IS INSTALLED IN AN UNVENTILATED ENCLOSURE, AND SHALL CONFORM TO NEMA TEMPERATURE RISE STANDARDS. DESIGNS WHICH REQUIRE CABINET VENTILATION ARE UNACCEPTABLE AND DO NOT MEET THIS SPECIFICATION.

THE UNIT SHALL BE RATED BASED ON ALL CLASSES OF LOADS, I.E., RESISTIVE, TUNGSTEN, BALLAST AND INDUCTIVE LOADS. SWITCHES RATED 400 AMPERES OR LESS SHALL BE UL LISTED FOR 100% TUNGSTEN LAMP LOAD.

AS A PRECONDITION FOR APPROVAL, ALL TRANSFER SWITCHES COMPLETE WITH ACCESSORIES SHALL BE LISTED BY UNDERWRITERS LABORATORIES, UNDER STANDARD UL 1008 (AUTOMATIC TRANSFER SWITCHES) AND APPROVED FOR USE ON EMERGENCY SYSTEMS.

THE WITHSTAND CURRENT CAPACITY OF THE MAIN CONTACTS SHALL NOT BE LESS THAN 20 TIMES THE CONTINUOUS DUTY RATING WHEN COORDINATED WITH ANY MOLDED CASE CIRCUIT BREAKER ESTABLISHED BY CERTIFIED TEST DATA.

TEMPERATURE RISE TESTS IN ACCORDANCE WITH UL 1008 SHALL HAVE BEEN CONDUCTED AFTER THE OVERLOAD AND ENDURANCE TESTS TO CONFIRM THE ABILITY OF THE UNITS TO CARRY THEIR RATED CURRENTS WITHIN THE ALLOWABLE TEMPERATURE LIMITS.

TRANSFER SWITCHES SHALL COMPLY WITH THE APPLICABLE STANDARDS OF UL, CSA, ANSI, NFPA, IEEE, NEMA AND IEC.

THE TRANSFER SWITCHES SHALL BE SUPPLIED WITH A SOLID STATE CONTROL PANEL AS DETAILED FURTHER IN THESE SPECIFICATIONS.

B. SEQUENCE OF OPERATION

THE ATS SHALL INCORPORATE ADJUSTABLE THREE PHASE UNDER-VOLTAGE SENSING OF THE NORMAL SOURCE.

WHEN THE VOLTAGE OF ANY PHASE OF THE NORMAL SOURCE IS REDUCED TO 80% OF NOMINAL VOLTAGE, FOR A PERIOD OF 0-10 SECONDS (PROGRAMMABLE) A PILOT CONTACT SHALL CLOSE TO INITIATE STARTING OF THE ENGINE GENERATOR.

THE ATS SHALL INCORPORATE ADJUSTABLE SINGLE PHASE UNDER-VOLTAGE SENSING OF THE EMERGENCY SOURCE.

WHEN THE EMERGENCY SOURCE HAS REACHED A VOLTAGE VALUE WITHIN 10% OF NOMINAL VOLTAGE AND ACHIEVED FREQUENCY WITHIN 5% OF THE RATED VALUE, THE LOAD SHALL BE TRANSFERRED TO THE EMERGENCY SOURCE AFTER A PROGRAMMABLE TIME DELAY.

WHEN THE NORMAL SOURCE HAS BEEN RESTORED TO NOT LESS THAN 90% OF RATED VOLTAGE ON ALL PHASES, THE LOAD SHALL BE RE-TRANSFERRED TO THE NORMAL SOURCE AFTER A TIME DELAY OF 0 TO 30 MINUTES (PROGRAMMABLE). THE GENERATOR SHALL RUN UNLOADED FOR 5 MINUTES (PROGRAMMABLE) AND THEN AUTOMATICALLY SHUT DOWN. THE GENERATOR SHALL BE READY FOR AUTOMATIC OPERATION UPON THE NEXT FAILURE OF THE NORMAL SOURCE.

IF THE ENGINE GENERATOR SHOULD FAIL WHILE CARRYING THE LOAD, RETRANSFER TO THE NORMAL SOURCE SHALL BE MADE INSTANTANEOUSLY UPON RESTORATION OF PROPER VOLTAGE (90%) ON THE NORMAL SOURCE.

GENERATOR SWITCH SHALL BE EQUIPPED WITH A SOLID STATE CONTROL PANEL AND THE CONTROL PANEL SHALL PERFORM THE OPERATIONAL AND DISPLAY FUNCTIONS OF THE TRANSFER SWITCH. THE DISPLAY FUNCTIONS OF THE CONTROL PANEL SHALL INCLUDE ATS POSITION AND SOURCE AVAILABILITY.

THE CONTROL PANEL SHALL INCLUDE INDICATORS FOR TIMING FUNCTIONS, AND ATS TEST SWITCH.

THE CONTROL PANEL SHALL BE PROVIDED WITH CALIBRATED POTS (ACCESSIBLE ONLY BY FIRST OPENING THE LOCKABLE CABINET DOOR) TO SET TIME DELAYS, VOLTAGE AND FREQUENCY SENSORS. THE ATS SHALL BE CAPABLE OF BEING ADJUSTED WHILE THE CONTROLS ARE ENERGIZED AND THE UNIT IN AUTOMATIC MODE. DESIGNS WHICH REQUIRE A "PROGRAMMING MODE" OR REQUIRE THE CONTROLS BE DE-ENERGIZED DURING ADJUSTMENT ARE UNACCEPTABLE.

THE CONTROL PANEL SHALL BE OPTO-ISOLATED FROM ITS INPUTS TO REDUCE SUSCEPTIBILITY TO ELECTRICAL NOISE AND PROVIDED WITH THE FOLLOWING INHERENT CONTROL FUNCTIONS AND CAPABILITIES:

AN LED DISPLAY FOR CONTINUOUS MONITORING OF THE ATS FUNCTIONS.

BUILT-IN DIAGNOSTIC DISPLAY.

TEST SWITCH TO SIMULATE A NORMAL SOURCE FAILURE.

TIME DELAY TO OVERRIDE MOMENTARY NORMAL SOURCE FAILURE PRIOR TO ENGINE START. FIELD PROGRAMMABLE 0-10 SECONDS (CONTINUOUSLY ADJUSTABLE VIA A CALIBRATED POTENTIOMETER FACTORY SET AT 3 SECONDS).

TIME DELAY ON RETRANSFER TO NORMAL SOURCE, CONTINUOUSLY ADJUSTABLE 0-30 MINUTES.

FACTORY SET AT 30 MINUTES. IF THE EMERGENCY SOURCE FAILS DURING THE RETRANSFER TIME DELAY, THE TRANSFER SWITCH CONTROLS SHALL AUTOMATICALLY BYPASS THE TIME DELAY AND IMMEDIATELY RETRANSFER TO THE NORMAL POSITION.

TIME DELAY ON TRANSFER TO EMERGENCY, CONTINUOUSLY ADJUSTABLE 0-15 SECONDS, FACTORY SET AT 1 SECOND.

AN IN-PHASE MONITOR OR TIME DELAYED NEUTRAL SHALL BE PROVIDED TO PREVENT EXCESSIVE TRANSIENT CURRENTS FROM SWITCHING MOTOR LOADS.

AN INTERVAL-TYPE AUTOMATIC CLOCK EXERCISER WITH LOAD/NO LOAD SELECTABILITY SHALL BE INCORPORATED IN THE ATS.

C. CONSTRUCTION AND PERFORMANCE

THE AUTOMATIC TRANSFER SWITCH SHALL BE OF DOUBLE THROW CONSTRUCTION OPERATED BY A RELIABLE ELECTRICAL MECHANISM MOMENTARILY ENERGIZED. THERE SHALL BE A DIRECT MECHANICAL COUPLING TO FACILITATE TRANSFER IN 6 CYCLES OR LESS.

THE NORMAL AND EMERGENCY CONTACTS SHALL BE MECHANICALLY INTERLOCKED SUCH THAT FAILURE OF ANY COIL OR DISARRANGEMENT OF ANY PART SHALL NOT PERMIT A NEUTRAL POSITION.

FOR SWITCHES INSTALLED IN SYSTEMS HAVING GROUND FAULT PROTECTIVE DEVICES, AND/OR WIRED SO AS TO BE DESIGNATED A SEPARATELY DERIVED SYSTEM BY THE NEC, A 4TH POLE SHALL BE PROVIDED. THIS ADDITIONAL POLE SHALL ISOLATE THE NORMAL AND EMERGENCY NEUTRALS. THE NEUTRAL POLE SHALL HAVE THE SAME WITHSTAND AND OPERATIONAL RATINGS AS THE OTHER POLES AND SHALL BE ARRANGED TO BREAK LAST AND MAKE FIRST TO MINIMIZE NEUTRAL SWITCHING TRANSIENTS. ADD-ON OR ACCESSORY POLES THAT ARE NOT OF IDENTICAL CONSTRUCTION AND WITHSTAND CAPABILITY ARE NOT ACCEPTABLE.

THE CONTACT STRUCTURE SHALL CONSIST OF A MAIN CURRENT CARRYING CONTACT, WHICH IS A SILVER ALLOY WITH A MINIMUM OF 50% SILVER CONTENT. THE CURRENT CARRYING CONTACTS SHALL BE PROTECTED BY SILVER TUNGSTEN ARCING CONTACTS ON ALL SIZES ABOVE 400 AMPS.

THE TRANSFER SWITCH MANUFACTURER SHALL SUBMIT TEST DATA FOR EACH SIZE SWITCH REQUIRED FOR THIS PROJECT, SHOWING THAT IT CAN WITHSTAND FAULT CURRENTS OF THE MAGNITUDE AND THE DURATION NECESSARY TO MAINTAIN THE SYSTEM INTEGRITY. MINIMUM UL LISTED WITHSTAND AND CLOSE INTO FAULT RATINGS SHALL BE AS FOLLOWS:

ANY MOLDED CASE BREAKER*:

SIZE (AMPS) (RMS SYMMETRICAL)

UP TO 200 10,000

201 - 250 35,000

SPECIFIC COORDINATED BREAKER*:

SIZE (AMPS) (RMS SYMMETRICAL)

UP TO 150 20,000

151 - 250 42,000

CURRENT LIMITING FUSE*:

SIZE (AMPS) (RMS SYMMETRICAL)

UP TO 4000 200,000

*ALL VALUES 480 VOLT, RMS SYMMETRICAL, LESS THAN 20% POWER FACTOR.

NOTE: ACTUAL NECESSARY CURRENT WITHSTAND RATINGS FOR THIS PROJECT MAY BE HIGHER THAN THE MINIMUMS LISTED ABOVE. REFER TO ELECTRICAL PLANS FOR EXACT REQUIREMENTS.

THE AUTOMATIC TRANSFER SWITCH MANUFACTURER SHALL CERTIFY SUFFICIENT ARC INTERRUPTING CAPABILITIES FOR 50 CYCLES OF OPERATION BETWEEN A NORMAL AND EMERGENCY SOURCE THAT ARE 120 DEGREES OUT OF PHASE AT 480 VOLTS, 600% OF RATED CURRENT AT .50 POWER FACTOR. THIS CERTIFICATION IS TO ENSURE THAT THERE WILL BE NO CURRENT FLOW BETWEEN THE TWO ISOLATED SOURCES DURING SWITCHING.

ALL RELAYS SHALL BE CONTINUOUS DUTY INDUSTRIAL TYPE WITH WIRING CONTACTS.

CUSTOMER INTERFACE CONTACTS SHALL BE RATED 10 AMPERES MINIMUM. COILS, RELAYS, TIMERS AND ACCESSORIES SHALL BE READILY FRONT ACCESSIBLE. THE CONTROL PANEL AND POWER SECTION SHALL BE INTERCONNECTED WITH A HARNESS AND KEYED DISCONNECT PLUGS FOR MAINTENANCE.

MAIN AND ARCING CONTACTS SHALL BE VISIBLE WITHOUT MAJOR DISASSEMBLY TO FACILITATE INSPECTION AND MAINTENANCE.

A MANUAL HANDLE SHALL BE PROVIDED FOR MAINTENANCE PURPOSES WITH THE SWITCH DE-ENERGIZED. AN OPERATOR DISCONNECT SWITCH SHALL BE PROVIDED TO DEFEAT AUTOMATIC OPERATION DURING MAINTENANCE. INSPECTION OR MANUAL OPERATION OF THE SWITCH SHALL BE MOUNTED IN A NEMA 1 INDOOR ENCLOSURE UNLESS OTHERWISE INDICATED ON THE PLANS.

SWITCHES COMPOSED OF MOLDED CASE BREAKERS, CONTACTORS OR COMPONENTS THEREOF NOT SPECIFICALLY DESIGNED AS AN AUTOMATIC TRANSFER SWITCH WILL NOT BE ACCEPTABLE.

TO EXPLOIT THE ADVANTAGE OF A SINGLE SOURCE OF SUPPLY TO THE OWNER, THE AUTOMATIC TRANSFER SWITCH SHALL BE SUPPLIED BY THE MANUFACTURER OF THE ENGINE GENERATOR SET AND COVERED UNDER THE SAME WARRANTY PROGRAM.

PART 3 EXECUTION

3.01 INSTALLATION

A. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, THE PROJECT DRAWINGS AND SPECIFICATIONS, AND ALL APPLICABLE CODES. INSTALLATION OF THE SYSTEM INCLUDES BUT IS NOT LIMITED TO POURING A CONCRETE PAD FOR THE GENERATOR SET AND AUTOMATIC TRANSFER SWITCH, RECEIVING AND OFFLOADING THE EQUIPMENT, PROVIDING ALL LABOR, PERMITS AND MATERIAL TO INSTALL THE TOTAL SYSTEM.

3.02 START-UP AND TESTING

A. COORDINATE ALL START-UP AND TESTING ACTIVITIES WITH THE ENGINEER AND OWNER.

B. AFTER INSTALLATION IS COMPLETE AND NORMAL POWER IS AVAILABLE, THE MANUFACTURER'S LOCAL DEALER SHALL PERFORM THE FOLLOWING:

VERIFY THAT THE EQUIPMENT IS INSTALLED PROPERLY.

CHECK ALL AUXILIARY DEVICES FOR PROPER OPERATION, INCLUDING BATTERY CHARGER, JACKET WATER HEATER(S), GENERATOR SPACE HEATER, REMOTE ANNUNCIATOR, ETC.

TEST ALL ALARMS AND SAFETY SHUTDOWN DEVICES FOR PROPER OPERATION AND ANNUNCIATION.

CHECK ALL FLUID LEVELS.

START ENGINE AND CHECK FOR EXHAUST, OIL, FUEL LEAKS, VIBRATIONS, ETC.

VERIFY PROPER VOLTAGE AND PHASE ROTATION AT THE TRANSFER SWITCH BEFORE CONNECTING TO THE LOAD.

CONNECT THE GENERATOR TO BUILDING LOAD AND VERIFY THAT THE GENERATOR WILL START AND RUN ALL DESIGNATED LOADS IN THE PLANT.

C. PERFORM A 4 HOUR LOAD BANK TEST AT FULL NAMEPLATE LOAD USING A LOAD BANK AND CABLES SUPPLIED BY THE LOCAL GENERATOR DEALER. OBSERVE AND RECORD THE FOLLOWING DATA AT 15 MINUTE INTERVALS:

SERVICE METER HOURS

VOLTS AC - ALL PHASES

AMPS AC - ALL PHASES

FREQUENCY

POWER FACTOR OR VARS

JACKET WATER TEMPERATURE

OIL PRESSURE

FUEL PRESSURE

AMBIENT TEMPERATURE

OPERATION AND MAINTENANCE MANUALS

D. PROVIDE THREE (3) SETS OF OPERATION AND MAINTENANCE MANUALS COVERING THE GENERATOR, SWITCHGEAR, AND AUXILIARY COMPONENTS. INCLUDE PARTS MANUALS, FINAL AS-BUILT WIRING INTERCONNECT DIAGRAMS AND RECOMMENDED PREVENTATIVE MAINTENANCE SCHEDULES.

E. TRAINING

PROVIDE ONE DAY OF ON-SITE TRAINING TO INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF THE EQUIPMENT. REVIEW OPERATION AND MAINTENANCE MANUALS, PARTS MANUALS, AND EMERGENCY SERVICE PROCEDURES.

END OF SECTION

Architecture
Strategic Planning
Program Management
Interior Design

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DESIGN DOCUMENTS FOR :

MIDTOWN
VASCULAR

AMBULATORY
SURGICAL
CENTER

1625 HARDEMAN AVE
MACON, GA 31201

SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
2/11/26		Construction Documents

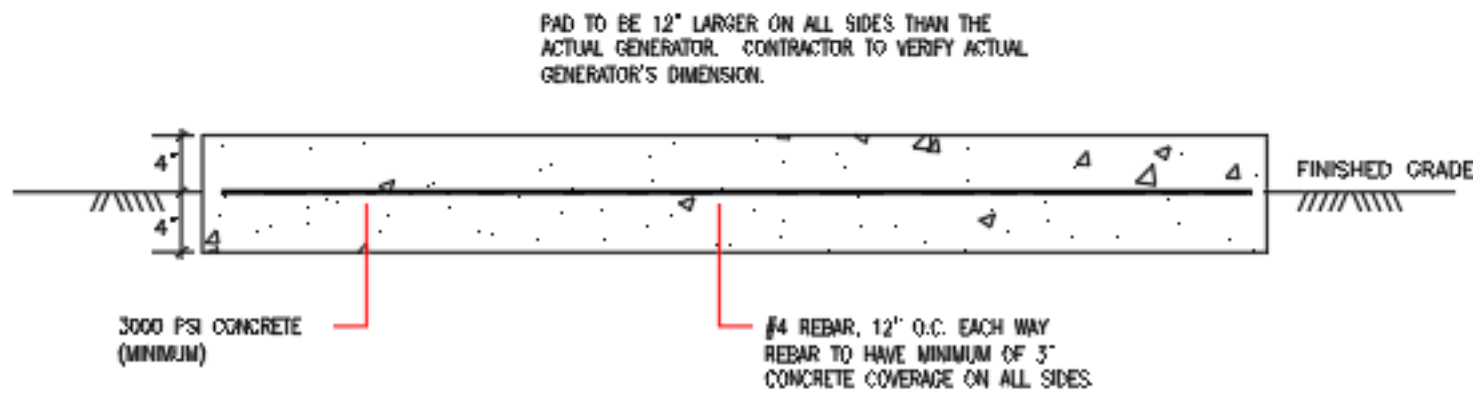
SHEET TITLE

GENERATOR
SPECIFICATIONS

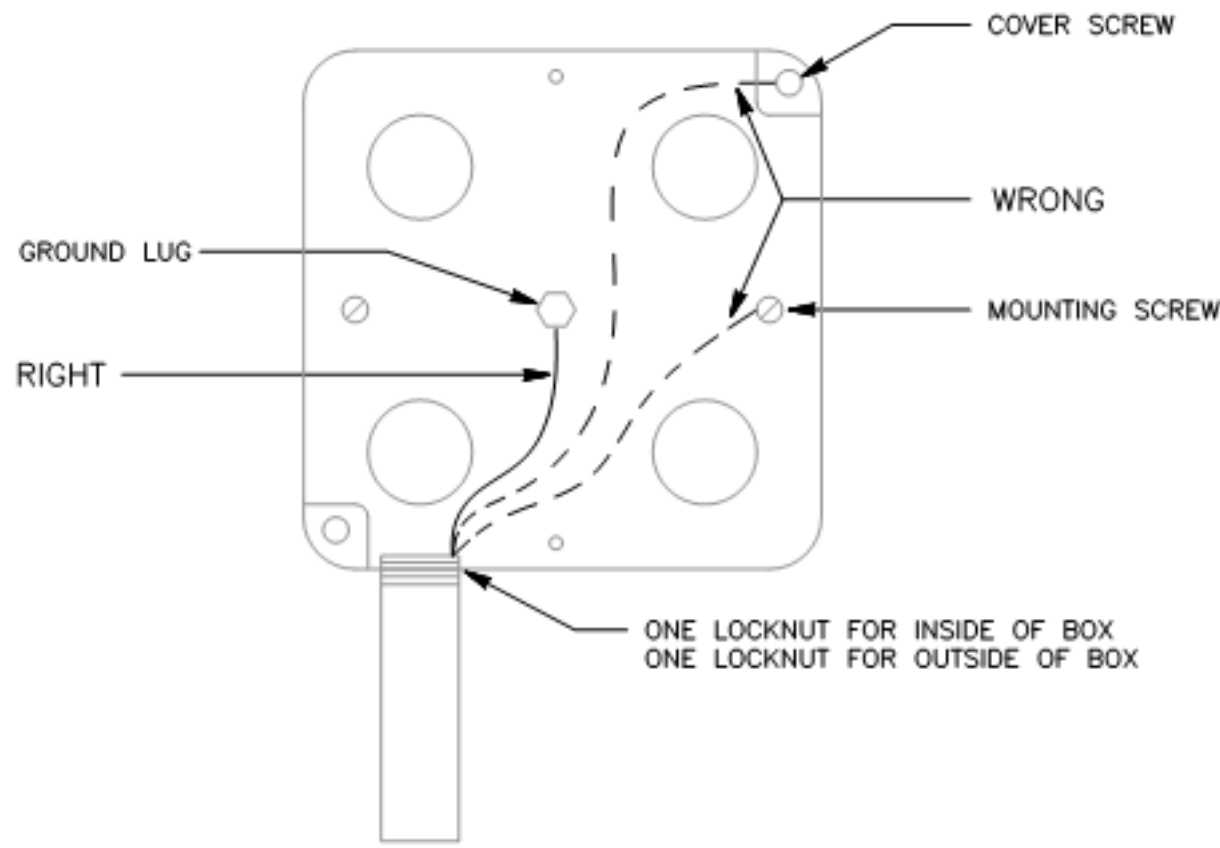
SHEET NUMBER

E6

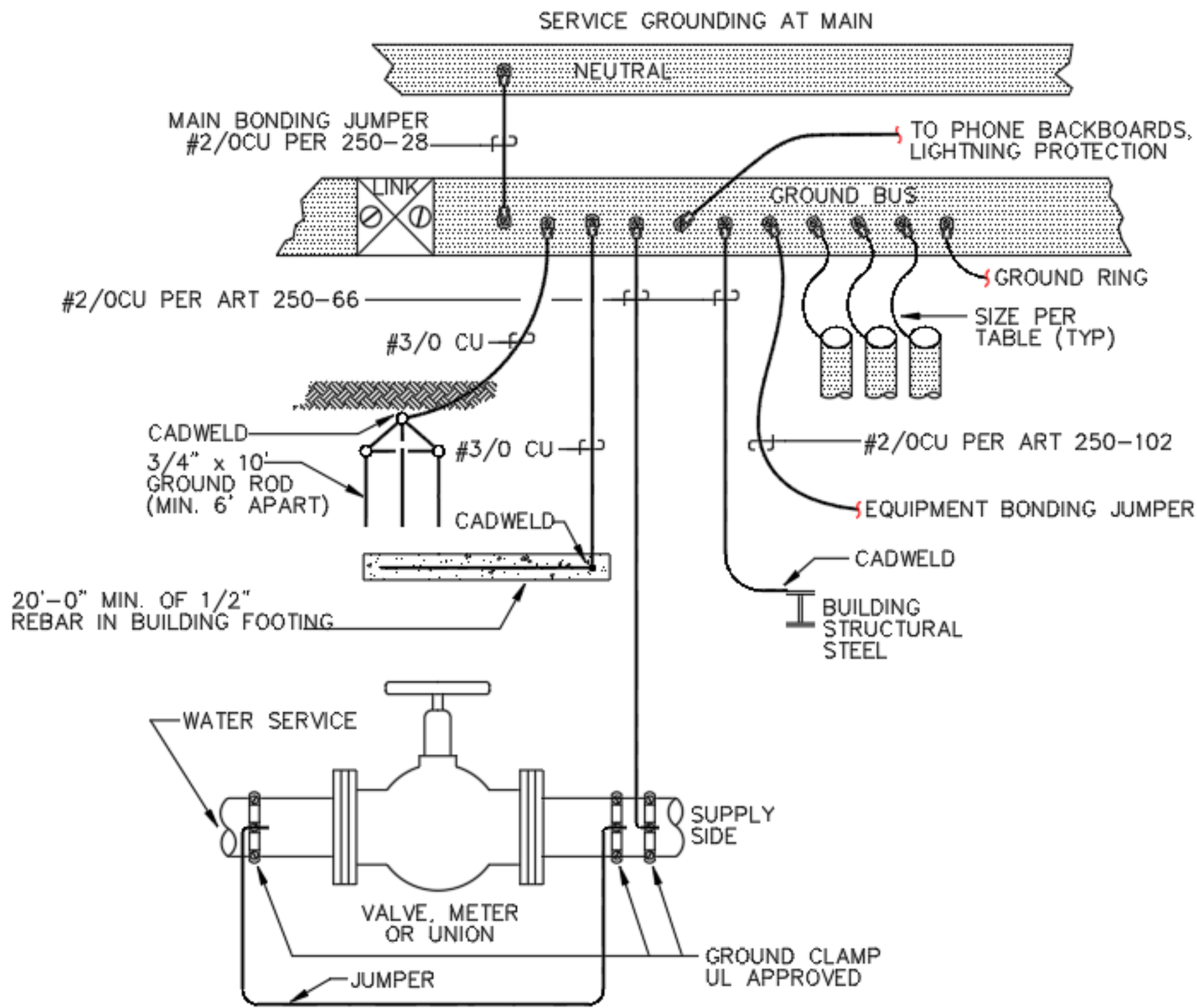
DRAWN BY	APPPOINTED	PROJECT
Author	30 JUL 25	25119



5 GENERATOR PAD DETAIL
E7 SCALE: NTS



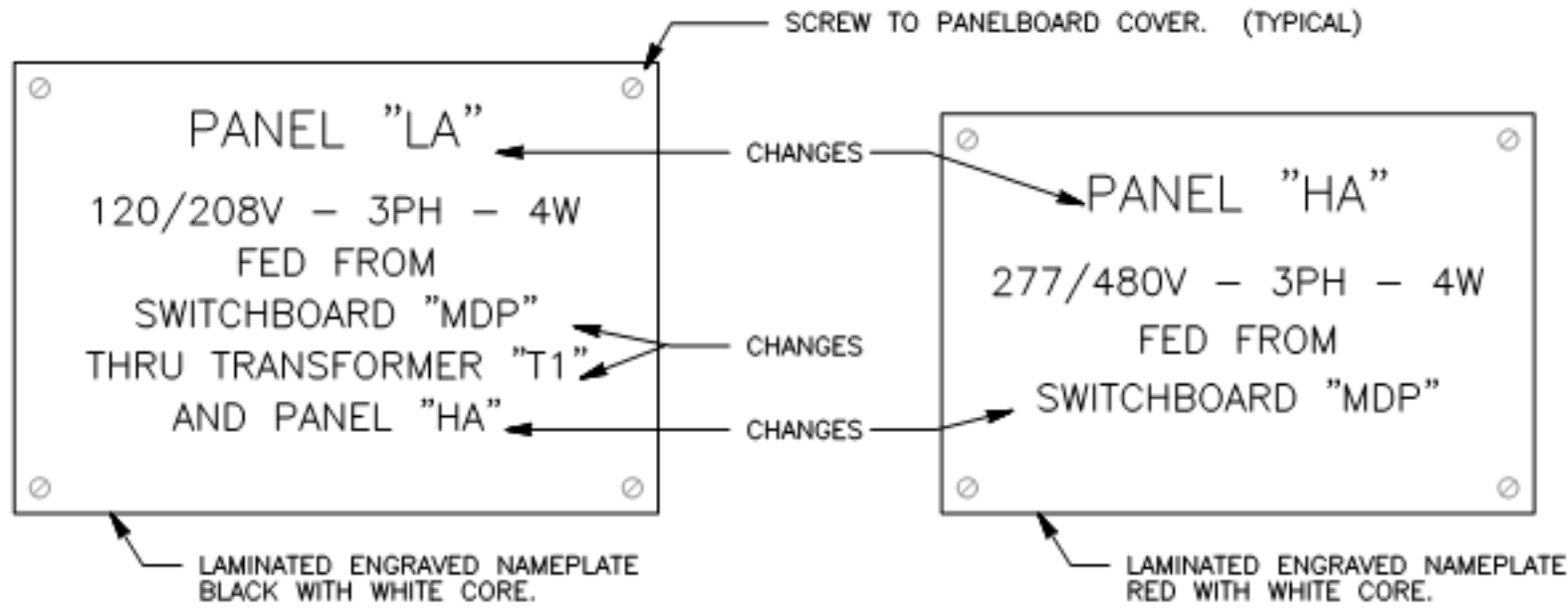
4 OUTLET BOX-GROUNDING CONNECTION
E7 DETAIL
NTS



6 GROUND DETAIL
E7 1 1/2" = 1'-0"

NOTES

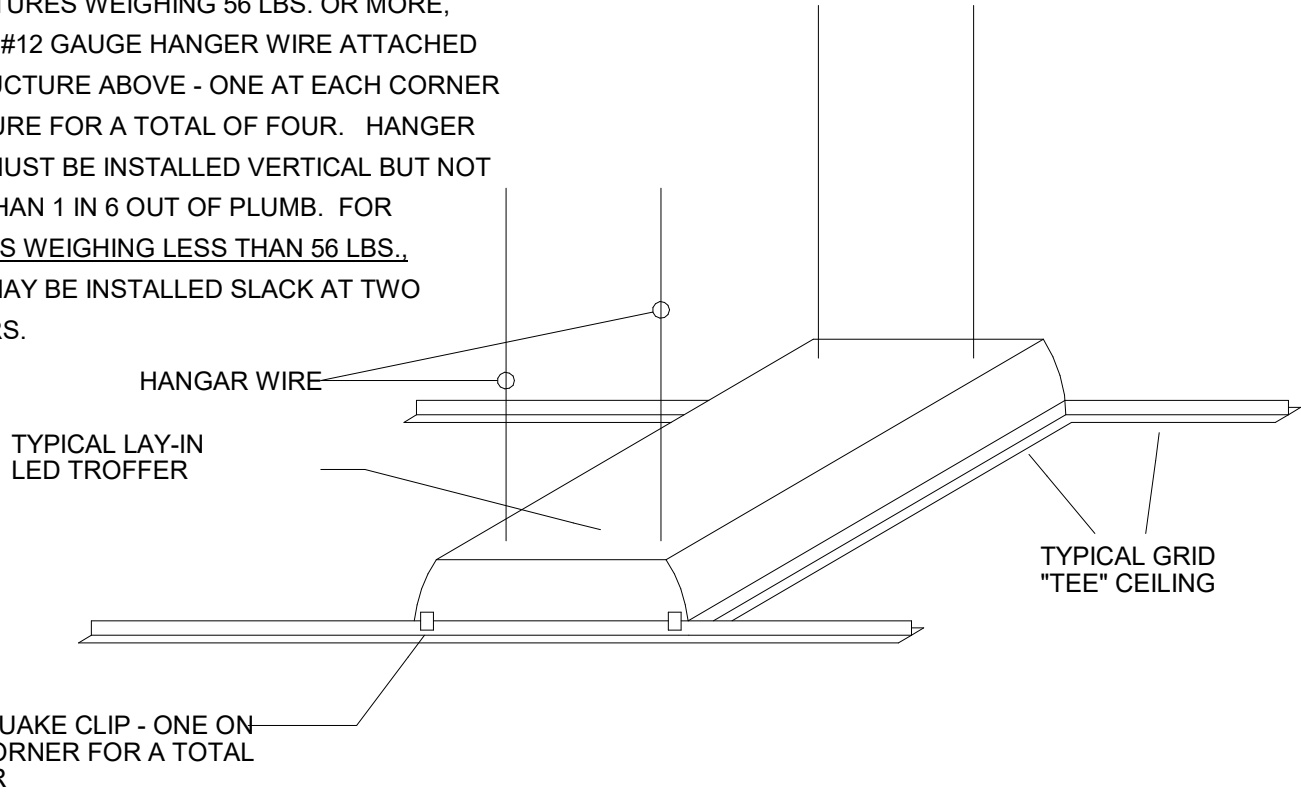
- 1 REFER TO SINGLE LINE DIAGRAM FOR PROPER LABELING OF PANEL, SWITCHBOARD AND TRANSFORMER.
- 2 FOR 277/480V PANELS PROVIDE RED LABELS WITH WHITE CORE.
- 3 FOR 120/208V PANELS PROVIDE BLACK LABELS WITH WHITE CORE.
- 4 SUBMIT CUT SHEETS OF LABELS TO ELECTRICAL ENGINEER FOR APPROVAL.
- 5 LETTERS SHALL BE A MINIMUM OF 3/8" HIGH.



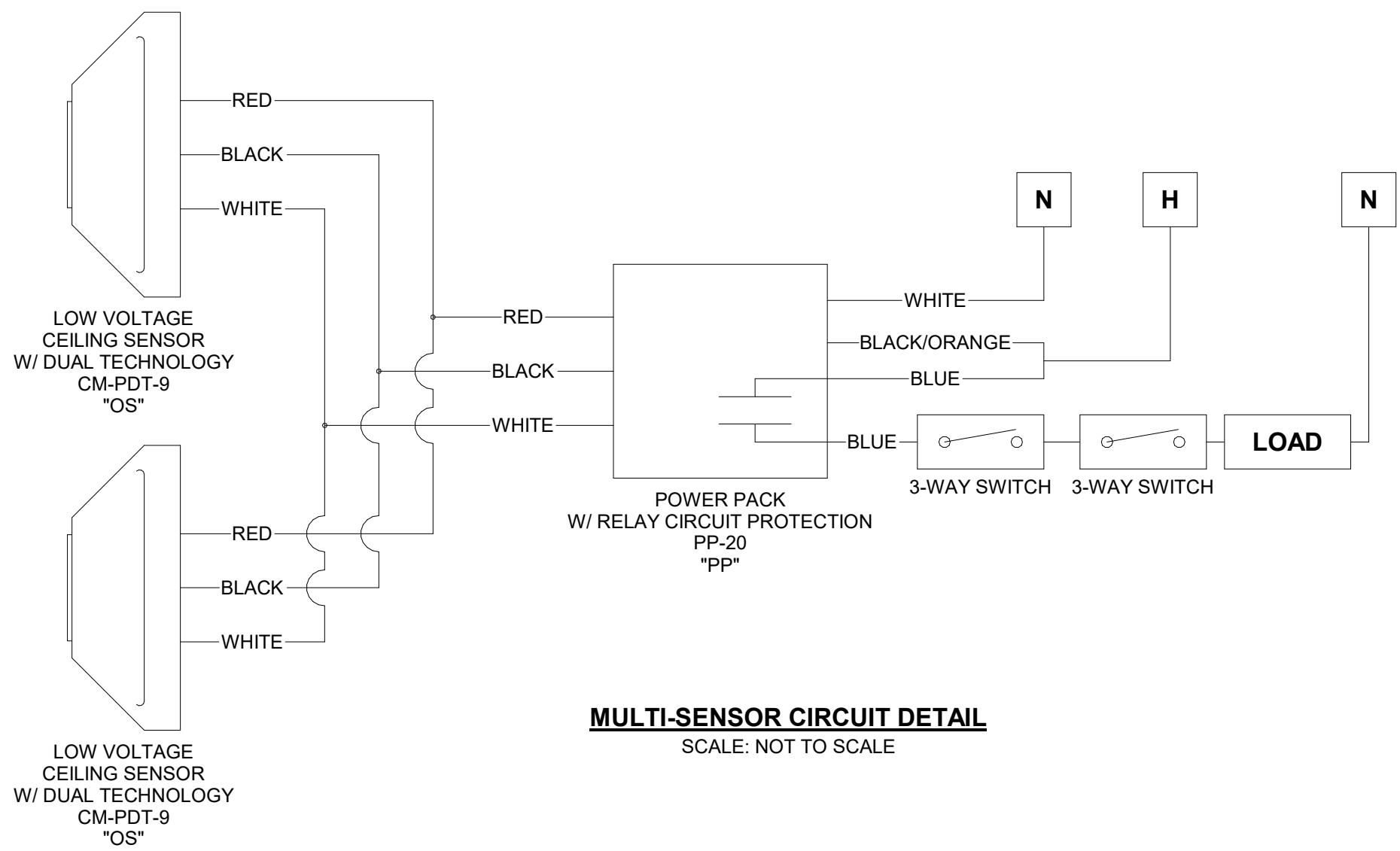
3 PANELBOARD LABELS DETAIL
E7 NTS

NOTE:

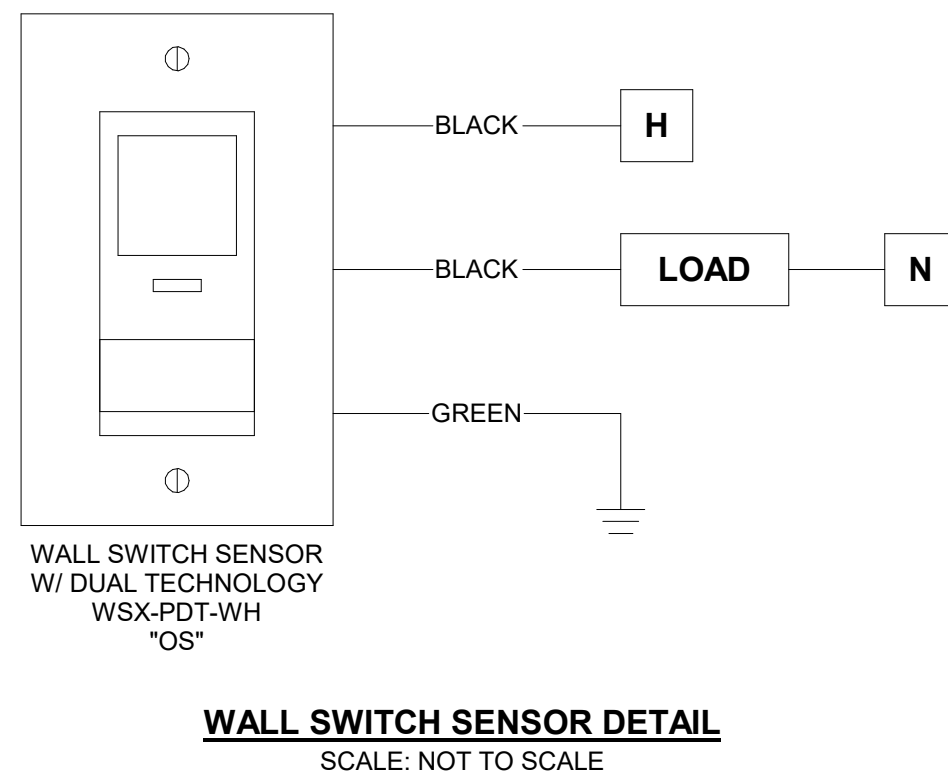
FOR FIXTURES WEIGHING 56 LBS. OR MORE, INSTALL #12 GAUGE HANGER WIRE ATTACHED TO STRUCTURE ABOVE - ONE AT EACH CORNER OF FIXTURE FOR A TOTAL OF FOUR. HANGER WIRES MUST BE INSTALLED VERTICAL BUT NOT MORE THAN 1 IN 6 OUT OF PLUMB. FOR FIXTURES WEIGHING LESS THAN 56 LBS., WIRES MAY BE INSTALLED SLACK AT TWO CORNERS.



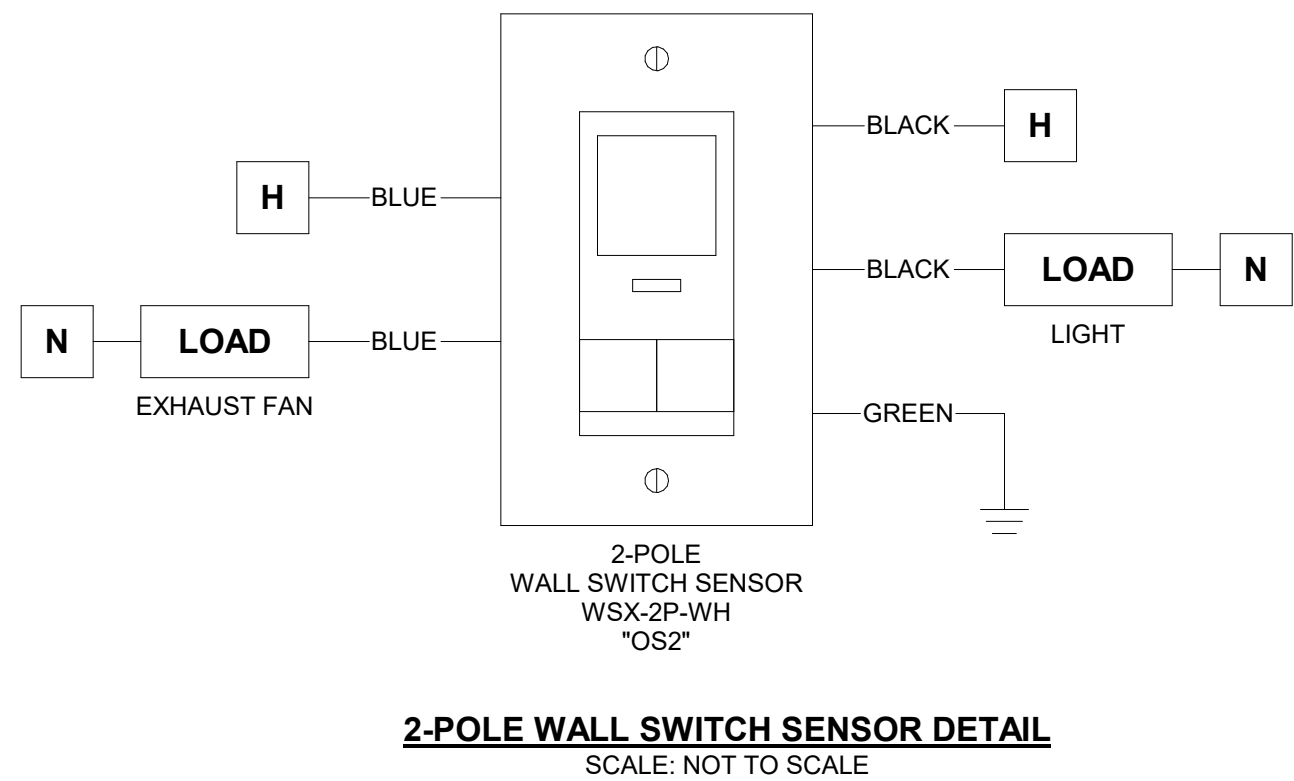
1 LIGHTING INSTALLATION DETAILS
E7 NTS



MULTI-SENSOR CIRCUIT DETAIL
SCALE: NOT TO SCALE



WALL SWITCH SENSOR DETAIL
SCALE: NOT TO SCALE



2-POLE WALL SWITCH SENSOR DETAIL
SCALE: NOT TO SCALE

2 OCCUPANCY SENSOR INSTALLATION DETAIL
E7 NTS

SHEET ISSUANCES

REV. NO.	DATE	DESCRIPTION
1	2/1/26	Construction Documents

SHEET TITLE

**ELECTRICAL
DETAILS**

SHEET NUMBER

E7

Branch Panel: DE													
Location: Supply From: ND Mounting: Surface Enclosure: Type 1				Volts: 120/208 Wye Phases: 3 Wires: 4				A.I.C. Rating: 22000A Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LS	100 A	3	2.01	2.16					3	100 A	CR	2
3	--	--	--			1.94	0.72			--	--	--	4
5	--	--	--					0.49	1.08	--	--	--	6
7	EQ	200 A	3	8.09	0.00					1	20 A	Spare	8
9	--	--	--			8.09	0.00			1	20 A	Spare	10
11	--	--	--					8.09	0.00	1	20 A	Spare	12
13	Space	--	1	--	--					1	--	Space	14
15	Space	--	1	--	--	--	--			1	--	Space	16
17	Space	--	1	--	--			--	--	1	--	Space	18
19	Space	--	1	--	--					1	--	Space	20
21	Space	--	1	--	--	--	--			1	--	Space	22
23	Space	--	1	--	--			--	--	1	--	Space	24
25	Space	--	1	--	--					1	--	Space	26
27	Space	--	1	--	--	--	--			1	--	Space	28
29	Space	--	1	--	--			--	--	1	--	Space	30
31	Space	--	1	--	--					1	--	Space	32
33	Space	--	1	--	--	--	--			1	--	Space	34
35	Space	--	1	--	--			--	--	1	--	Space	36
37	Space	--	1	--	--					1	--	Space	38
39	Space	--	1	--	--	--	--			1	--	Space	40
41	Space	--	1	--	--			--	--	1	--	Space	42
Total Load:				12.27 kVA		10.76 kVA		9.66 kVA					
Total Amps:				104 A		91 A		80 A					
Load Classification		Connected Load				Est. Demand				Panel Totals			
_Lighting		239 VA				299 VA							
_Receptacle		3960 VA				3960 VA				Total Conn. Load:		32679 VA	
_AC		24280 VA				24280 VA				Total Est. Demand:		29739 VA	
_Misc		300 VA				300 VA				Total Conn. Current:		90.7 A	
Other		0 VA				0 VA				Total Est. Demand Current:		83 A	
_Heat		3000 VA				3000 VA							
Receptacle		900 VA				900 VA							
Notes:													

Branch Panel: LA1 (EXISTING)											
Location: Supply From: ND Mounting: Surface Enclosure: Type 1				Volts: 120/208 Wye Phases: 3 Wires: 4				A.I.C. Rating: 22000 Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A			
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	LA2	20 A	3	11.73	0.00			3	20 A	LB	2
3	--	--	--		11.32	0.00		--	--	--	4
5	--	--	--			10.49	0.00	--	--	--	6
7	WH-1(LOCKABLE BREAKER)	25 A	3	2.00	0.05			1	20 A	CP-1	8
9	--	--	--		2.00	0.90		1	20 A	EXISTING RECEPTACLES	10
11	--	--	--			2.00	0.90	1	20 A	EXISTING RECEPTACLES	12
13	EXISTING RECEPTACLES	20 A	1	1.08	1.08			1	20 A	EXISTING RECEPTACLES	14
15	EXISTING RECEPTACLES	20 A	1		0.72	0.54		1	20 A	EXISTING RECEPTACLES	16
17	EXISTING RECEPTACLES	20 A	1			0.90	1.08	1	20 A	EXISTING RECEPTACLES	18
19	EXISTING RECEPTACLES	20 A	1	0.72	0.36			1	20 A	EXISTING RECEPTACLES	20
21	EXISTING RECEPTACLES	20 A	1		0.90	0.72		1	20 A	EXISTING RECEPTACLES	22
23	EXISTING RECEPTACLES	20 A	1			0.36	0.36	1	20 A	EXISTING RECEPTACLES	24
25	EXISTING RECEPTACLES	20 A	1	0.36	0.54			1	20 A	EXISTING RECEPTACLES	26
27	UNDERCOUNTER BLANKET...	20 A	1		0.18	0.18		1	20 A	COUNTERTOP ICE MAKER	28
29	STERILIZER CLEAN UTILITY	20 A	1			0.18					30
31											32
33											34
35											36
37											38
39											40
41											42
Total Load:				17.92 kVA		17.46 kVA		16.27 kVA			
Total Amps:				151 A		147 A		136 A			
Load Classification		Connected Load		Est. Demand		Panel Totals					
_Lighting		2402 VA		3003 VA							
_Receptacle		10800 VA		10400 VA		Total Conn. Load: 51652 VA					
_AC		31920 VA		31920 VA		Total Est. Demand: 51865 VA					
_Misc		0 VA		0 VA		Total Conn. Current: 143.4 A					
Motor		50 VA		63 VA		Total Est. Demand Current: 144 A					
Other		0 VA		0 VA							
Receptacle		6480 VA		6480 VA							
Notes:											

Branch Panel: ND													
Location: Supply From: Mounting: Surface Enclosure: Type 1				Volts: 120/208 Wye Phases: 3 Wires: 4				A.I.C. Rating: Mains Type: MCB Mains Rating: 800 A MCB Rating: 800 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LA1	200 A	3	17.92	12.27					3	400 A	DE	2
3	--	--	--	--	--	17.46	10.76			--	--	--	4
5	--	--	--	--	--			16.27	9.66	--	--	--	6
7	Space	--	1	--	0.00					3	200 A	Spare	8
9	Space	--	1			--	0.00			--	--	--	10
11	Space	--	1					--	0.00	--	--	--	12
13	Space	--	1	--	--					1	--	Space	14
15	Space	--	1			--	--			1	--	Space	16
17	Space	--	1					--	--	1	--	Space	18
19	Space	--	1	--	--					1	--	Space	20
21	Space	--	1			--	--			1	--	Space	22
23	Space	--	1					--	--	1	--	Space	24
25	Space	--	1	--	--					1	--	Space	26
27	Space	--	1			--	--			1	--	Space	28
29	Space	--	1					--	--	1	--	Space	30
31	Space	--	1	--	--					1	--	Space	32
33	Space	--	1			--	--			1	--	Space	34
35	Space	--	1					--	--	1	--	Space	36
37	Space	--	1	--	--					1	--	Space	38
39	Space	--	1			--	--			1	--	Space	40
41	Space	--	1					--	--	1	--	Space	42
Total Load:				30.19 kVA		28.22 kVA		25.93 kVA					
Total Amps:				255 A		238 A		216 A					
Load Classification		Connected Load				Est. Demand				Panel Totals			
_Lighting		2641 VA				3301 VA							
_Receptacle		14760 VA				12380 VA				Total Conn. Load: 84331 VA			
_AC		56200 VA				56200 VA				Total Est. Demand: 79624 VA			
_Misc		300 VA				300 VA				Total Conn. Current: 234.1 A			
Motor		50 VA				63 VA				Total Est. Demand Current: 221 A			
Other		0 VA				0 VA							
_Heat		3000 VA				3000 VA							
Receptacle		7380 VA				7380 VA							
Notes:													

Branch Panel: LA2 (EXISTING)													
Location: Supply From: LA1 Mounting: Surface Enclosure: Type 1				Volts: 120/208 Wye Phases: 3 Wires: 4				A.I.C. Rating: 22000 Mains Type: MCB Mains Rating: 400 A MCB Rating: 400 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	_Receptacle_TV	20 A	1	0.72	0.18					1	20 A	_Receptacle_EXISTING	2
3	Receptacle	20 A	1			0.18	0.36			1	20 A	RECEPTACLE, BAY	4
5	_Receptacle_CLEAN UTILITY	20 A	1					0.54	0.00	1	20 A	POWER SINK	6
7	RECEPTACLE, BAY	20 A	1	0.36	0.90					1	20 A	RECEPTACLE, PREPOST	8
9	Receptacle_PASSAGE	20 A	1			0.54	0.35			1	20 A	_Lighting	10
11	_Lighting	20 A	1					0.29	0.18	1	20 A	_Receptacle_PROCEDURE	12
13	_Receptacle_PROCEDURE	20 A	1	0.18	0.18					1	20 A	_Receptacle_PROCEDURE	14
15	_Receptacle_PROCEDURE	20 A	1			0.18	0.46			1	20 A	_Lighting	16
17	_Lighting	20 A	1					0.12	8.64	3	80 A	_EXISTING RTU-1	20
19	EXISTING LIGHTING	20 A	1	0.57	8.64					--	--		18
21	_Lighting	20 A	1			0.62	8.64			--	--		22
23	RECEPTACLE, BAY	20 A	1					0.36	0.36	1	20 A	RECEPTACLE, BAY	24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
Total Load:				11.73 kVA		11.32 kVA		10.49 kVA					
Total Amps:				99 A		95 A		87 A					
Load Classification		Connected Load				Est. Demand				Panel Totals			
_Lighting		2402 VA				3003 VA							
_Receptacle		2880 VA				2880 VA				Total Conn. Load: 33542 VA			
_AC		25920 VA				25920 VA				Total Est. Demand: 34143 VA			
_Misc		0 VA				0 VA				Total Conn. Current: 93.1 A			
Other		0 VA				0 VA				Total Est. Demand Current: 95 A			
Receptacle		2340 VA				2340 VA							
Notes:													

Architecture
Strategic Planning
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Interior Design

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DESIGN DOCUMENTS FOR :

MIDTOWN
VASCULAR

AMBULATORY
SURGICAL
CENTER

1625 HARDEMAN AVE
MACON, GA 31201

Branch Panel: IPC2

Location: PROCEDURE #2 105
Supply From: CR
Mounting: RECESSED
Enclosure: Type 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10000A
Mains Type: 100A/2P MCB
Mains Rating: 100 A
MCB Rating: 60 A

CKT	Circuit Description	Trip	Poles	A		C		Poles	Trip	Circuit Description	CKT
1	_Receptacle_PROCEDURE RM	20 A	1	0.18	0.18	0.18		1	20 A	_Receptacle_PROCEDURE RM	2
3	_Receptacle_PROCEDURE RM	20 A	1								4
5											6
7											8
9											10
11											12
13											14
15											16
17											18
19											20
21											22
23											24

Total Load: 0.36 kVA 0.18 kVA
Total Amps: 3 A 2 A

Load Classification	Connected Load	Est. Demand	Panel Totals
_Receptacle	540 VA	540 VA	
			Total Conn. Load: 540 VA
			Total Est. Demand: 540 VA
			Total Conn. Current: 2.6 A
			Total Est. Demand Current: 3 A

Notes:

Branch Panel: IPC1

Location: PROCEDURE #1 106
Supply From: CR
Mounting: RECESSED
Enclosure: Type 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10000A
Mains Type: 100A/2P MCB
Mains Rating: 100 A
MCB Rating: 60 A

CKT	Circuit Description	Trip	Poles	A		B	Poles	Trip	Circuit Description	CKT
1	_Receptacle_PROCEDURE RM	20 A	1	0.36	0.36		1	20 A	_Receptacle_PROCEDURE RM	2
3										4
5	_Receptacle_PROCEDURE RM	20 A	1	0.18						6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24

Total Load: 0.90 kVA 0.00 kVA
Total Amps: 8 A 0 A

Load Classification	Connected Load	Est. Demand	Panel Totals
_Receptacle	900 VA	900 VA	
			Total Conn. Load: 900 VA
			Total Est. Demand: 900 VA
			Total Conn. Current: 4.3 A
			Total Est. Demand Current: 4 A

Notes:

Branch Panel: LS

Location: DE
Supply From: DE
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: MCB
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	BATTERY CHARGER	20 A	1	0.20									2
3	_Receptacle	20 A	1			0.18	0.18			1	20 A	_Receptacle	4
5	_Receptacle	20 A	1					0.18	0.18	1	20 A	_Receptacle	6
7	_Receptacle	20 A	1	0.18	0.08					1	20 A	_Lighting	8
9	_Lighting	20 A	1			0.04	0.04			1	20 A	_Lighting	10
11	_Misc	20 A	1					0.10	0.03	1	20 A	_Lighting	12
13	_Lighting	20 A	1	0.05	1.50					2	20 A	GEN JACKET WARMER	14
15							1.50			--	--		16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42

Total Load: 2.01 kVA 1.94 kVA 0.49 kVA
Total Amps: 19 A 18 A 4 A

Load Classification	Connected Load	Est. Demand	Panel Totals
_Lighting	239 VA	299 VA	
_Receptacle	900 VA	900 VA	Total Conn. Load: 4439 VA
_Misc	300 VA	300 VA	Total Est. Demand: 4499 VA
Other	0 VA	0 VA	Total Conn. Current: 12.3 A
_Heat	3000 VA	3000 VA	Total Est. Demand Current: 12 A

Notes:

Branch Panel: EQ

Location: DE
Supply From: DE
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22000A
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CU-4	30 A	3	2.28	1.77					3	25 A	AHU-4	2
3	--	--	--			2.28	1.77			--	--	--	4
5	--	--	--					2.28	1.77	--	--	--	6
7	CU-3	30 A	3	2.28	1.77					3	25 A	AHU-3	8
9	--	--	--			2.28	1.77			--	--	--	10
11	--	--	--					2.28	1.77	--	--	--	12
13	Spare	20 A	1	0.00	0.00					1	20 A	Spare	14
15	Spare	20 A	1			0.00	0.00			1	20 A	Spare	16
17	Spare	20 A	1					0.00	0.00	1	20 A	Spare	18
19	Spare	20 A	1	0.00	0.00					1	20 A	Spare	20
21	Spare	20 A	1			0.00	0.00			1	20 A	Spare	22
23	Spare	20 A	1					0.00	0.00	1	20 A	Spare	24
25	Spare	20 A	1	0.00	0.00					1	20 A	Spare	26
27	Space	--	1			--	--			1	--	Space	28
29	Space	--	1					--	--	1	--	Space	30
31	Space	--	1	--	--					1	--	Space	32
33	Space	--	1			--	--			1	--	Space	34
35	Space	--	1					--	--	1	--	Space	36
37	Space	--	1	--	--					1	--	Space	38
39	Space	--	1			--	--			1	--	Space	40
41	Space	--	1					--	--	1	--	Space	42

Total Load: 8.09 kVA 8.09 kVA 8.09 kVA
Total Amps: 67 A 67 A 67 A

Load Classification	Connected Load	Est. Demand	Panel Totals
_AC	24280 VA	24280 VA	
			Total Conn. Load: 24280 VA
			Total Est. Demand: 24280 VA
			Total Conn. Current: 67.4 A
			Total Est. Demand Current: 67 A

Notes:

Branch Panel: CR

Location: DE
Supply From: DE
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22000A
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B	C		Poles	Trip	Circuit Description	CKT	
1	Spare	20 A	1	0.00	0.36				1	20 A	_Receptacle	2	
3	Spare	20 A	1			0.00	0.36		1	20 A	_Receptacle	4	
5	Receptacle	20 A	1					0.36	0.18	1	20 A	Receptacle	6
7	_Receptacle	20 A	1	0.36	0.36				1	20 A	_Receptacle	8	
9	Receptacle	20 A	1			0.18	0.18		1	20 A	Receptacle	10	
11	Receptacle	20 A	1					0.18	0.00	1	20 A	Spare	12
13	IPC2	60 A	2	0.90	0.00				1	20 A	Spare	14	
15	--	--	--			0.00	0.00		1	20 A	Spare	16	
17	IPC1	20 A	2					0.36	0.00	1	20 A	Spare	18
19	--	--	--	0.18	0.00				1	20 A	Spare	20	
21	Spare	20 A	1			0.00	0.00		1	20 A	Spare	22	
23	Spare	20 A	1					0.00	0.00	1	20 A	Spare	24
25	Spare	20 A	1	0.00	0.00				1	20 A	Spare	26	
27	Spare	20 A	1			0.00	0.00		1	20 A	Spare	28	
29	Spare	20 A	1					0.00	0.00	1	20 A	Spare	30
31	Spare	20 A	1	0.00	0.00				1	20 A	Spare	32	
33	Spare	20 A	1			0.00	0.00		1	20 A	Spare	34	
35	Spare	20 A	1					0.00	0.00	1	20 A	Spare	36
37	Spare	20 A	1	0.00	0.00				1	20 A	Spare	38	
39	Spare	20 A	1			0.00	0.00		1	20 A	Spare	40	
41	Spare	20 A	1					0.00	0.00	1	20 A	Spare	42

Total Load: 2.16 kVA 0.72 kVA 1.08 kVA
Total Amps: 18 A 6 A 9 A

Load Classification	Connected Load	Est. Demand	Panel Totals
_Receptacle	3060 VA	3060 VA	
Receptacle	900 VA	900 VA	Total Conn. Load: 3960 VA
			Total Est. Demand: 3960 VA
			Total Conn. Current: 11.0 A
			Total Est. Demand Current: 11 A

Notes:

SHEET ISSUANCES		
REV. NO.	DATE	DESCRIPTION
	2/1/26	Construction Documents

SHEET TITLE

ELECTRICAL
SCHEDULES

SHEET NUMBER

E9