

EMANUEL MEDICAL CENTER

EMERGENCY DEPARTMENT ADDITION & RENOVATION

117 KITE ROAD - SWAINSBORO, GEORGIA 30401

CONTACT INFORMATION

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GENERAL NOTES

A. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATES AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.

B. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.

C. DO NOT SCALE THESE DRAWINGS. CONTRACTOR SHALL VERIFY DIMENSIONS, AND SITE CONDITIONS BEFORE STARTING WORK. ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.

D. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.

E. ALL GRAPHIC AND WRITTEN INFORMATION ON ALL DRAWINGS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.

F. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.

G. ALL PROPOSED SUBSTITUTIONS SHALL BE APPROVED BY THE ARCHITECTS, IN WRITING, PRIOR TO INSTALLATION.

H. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

I. CONTRACTOR IS RESPONSIBLE FOR DAILY REMOVAL OF ALL CONSTRUCTION DEBRIS.

J. WASTE DISPOSAL SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

K. ANY DAMAGE CAUSED BY THE CONTRACTOR FORCES UNDER THIS DIRECTION, AND/OR SUBCONTRACTORS WORKING FOR THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

L. IT IS INTENDED THAT A COMPLETE OCCUPIABLE BUILDING PROJECT IS PROVIDED.

M. EXISTING ITEMS TO REMAIN IF REQUIRED SHALL BE MADE TO CONFORM TO APPLICABLE LOCAL, STATE, AND FEDERAL CODES.

N. CONTRACTOR SHALL NOT BLOCK THE OWNERS ACCESS TO EXITS WHEN THE SITE IS OCCUPIED.

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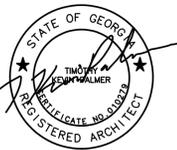


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EMERGENCY DEPT. RENOVATION
EMANUEL MEDICAL CENTER
SWAINSBORO, GEORGIA

BID SET

PROJECT NUMBER: 2235
PROJECT DATE: 2/14/2024
DRAWN BY: AMG
APPROVED BY: TKP

SCHEDULE OF REVISIONS

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TITLE SHEET

T1.0

Referenced Codes Include:

2018 Life Safety Code- NFPA101
2018 International Building Code
2018 International Fire Code
Official Code of Georgia Annotated

Project Summary:

This project includes the interior renovation of roughly 5,800 s.f. of existing, fully sprinklered emergency room space and an addition of roughly 660 s.f.. None of the renovations affect existing egress patterns. The building is to remain fully operational during construction.

Occupancy Classification:

2018 LSC/ Chapter 21-

"Buildings or portions.....currently occupied as an ambulatory healthcare occupancy. (A building or portion thereof used to provide services or treatment simultaneously to four or more patients that (1) provides, on an outpatient basis, treatment for patients that renders the patients incapable of taking action for self-preservation under emergency conditions without the assistance of others, or (2) provides, on an outpatient basis, anesthesia that renders the patients incapable of taking action for self-preservation under emergency conditions without the assistance of others.)"

Existing Ambulatory Health Care Occupancy

2018 IBC/ 308.3-

Building Grade Elevation-

Institutional Group I-2 (Condition 2)

F.F.E.- Existing

Minimum Type of Construction:

2018 IBC/ 602.2-

Existing- Type IIA- Fully Sprinklered

Type II construction is that type of construction in which the building elements listed in table 601 are of non-combustible materials, except as permitted in Section 603 and elsewhere in this code

2018 LSC/ 20.1.6.1 Ambulatory healthcare occupancies shall be limited to the building construction types specified in Table 21.1.6.1 unless otherwise permitted by 21.1.6.6- Type IIA- sprinklered- >2 allowed.

2018 LSC/ 20.1.6.1 Buildings of two or more stories in height housing ambulatory health care facilities shall be of Type I(443), TypeII(332), Type II(222), Type II(111), Type III(211), TypeIV(2HH), or Type V(111) construction.

Exception: Buildings constructed of Type II(000), Type III(200), or **Type V(000)**, if protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7.

2018 IBC/ Table 504.3, 504.4, 506.2- Allowable Height and Building Area:

Maximum Height in Stories: Maximum 3 story in height
Maximum Height in Feet: Maximum 85 feet A.F.F.
Maximum Allowable Area: Maximum 45,000 s.f. floor area.

Proposed Building Area:

660 S.F. (New Addition)

5,862 S.F. (Renovation)

Total Proposed Building Area:

6,522 S.F.

Proposed Building Height in Stories:

1 Stories

Proposed Building Height in Feet:

18 Feet A.F.F.

2018 IBC/ 1004.5 Design occupant load.

Table 1004.5 Maximum Floor Area per Occupant: 66 Persons

Institutional areas: Outpatient Areas: 100 gross square feet per person.

6,522 s.f. / 100 s.f. per person= 66 person occupancy

Emergency Fire Area= 4,580 s.f. @ 100/person=

46 Persons

Admin./Waiting Fire Area= 1,942 s.f. @ 100/person=

20 Persons

Fire Resistance Rating Requirements: 2018 IBC/ Table 601 & 602: Type II-A

Structural Frame 1 Hours

Bearing Walls 1 Hours

Non-Bearing Walls 0 Hours

Floor Construction 1 Hours

Roof Construction 1 Hours

2018 IBC/ 1005.1: Egress Width

.15 inches per person

Total Exit Capacity = (8 X 170) =

1,360 persons

Required Exit Capacity =

57 persons

2018 Life Safety Code/ 21.1.6.6 In existing buildings, the authority having jurisdiction shall be permitted to accept construction systems of lesser fire resistance than those required by 21.1.6.1 through 21.1.6.5 provided that it can demonstrate to the authorities satisfaction that prompt evacuation of the facility can be achieved in case of fire.....

2018 Life Safety Code/ 21.2.3.2 The clear width of any corridor or passageway required for exit access shall be not less than 44 inches.

2018 Life Safety Code/ 21.2.6.2.1 and 21.2.6.2.2 The maximum travel distance to an exit shall be 200' (with sprinkler).

2018 Life Safety Code/ 21.3.7.2 The ambulatory health care facility shall be divided into not less than two smoke compartments.

2018 Life Safety Code/ 38.2.4.2

Not less than two separate exits shall meet the following criteria: (1) They shall be provided on every story. (2) They shall be accessible from every part of every story and mezzanine.

2018 Life Safety Code/ 38.2.5.2

Dead End Corridor- 50 ft. Max

Dead-end corridors shall not exceed 20 ft (6.1 m).

Exception: In buildings protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7, dead-end corridors shall not exceed 50 ft (15 m).

2018 Life Safety Code/ 38.3.6

Corridors not Rated

38.3.6.1 *Where access to exits is provided by corridors, such corridors shall be separated from use areas by walls having a fire resistance rating of not less than 1 hour in accordance with 8.2.3.

Exception No. 3: Within buildings protected throughout by an approved, supervised automatic sprinkler system in accordance with Section 9.7.

2018 LSC/ 38.3:

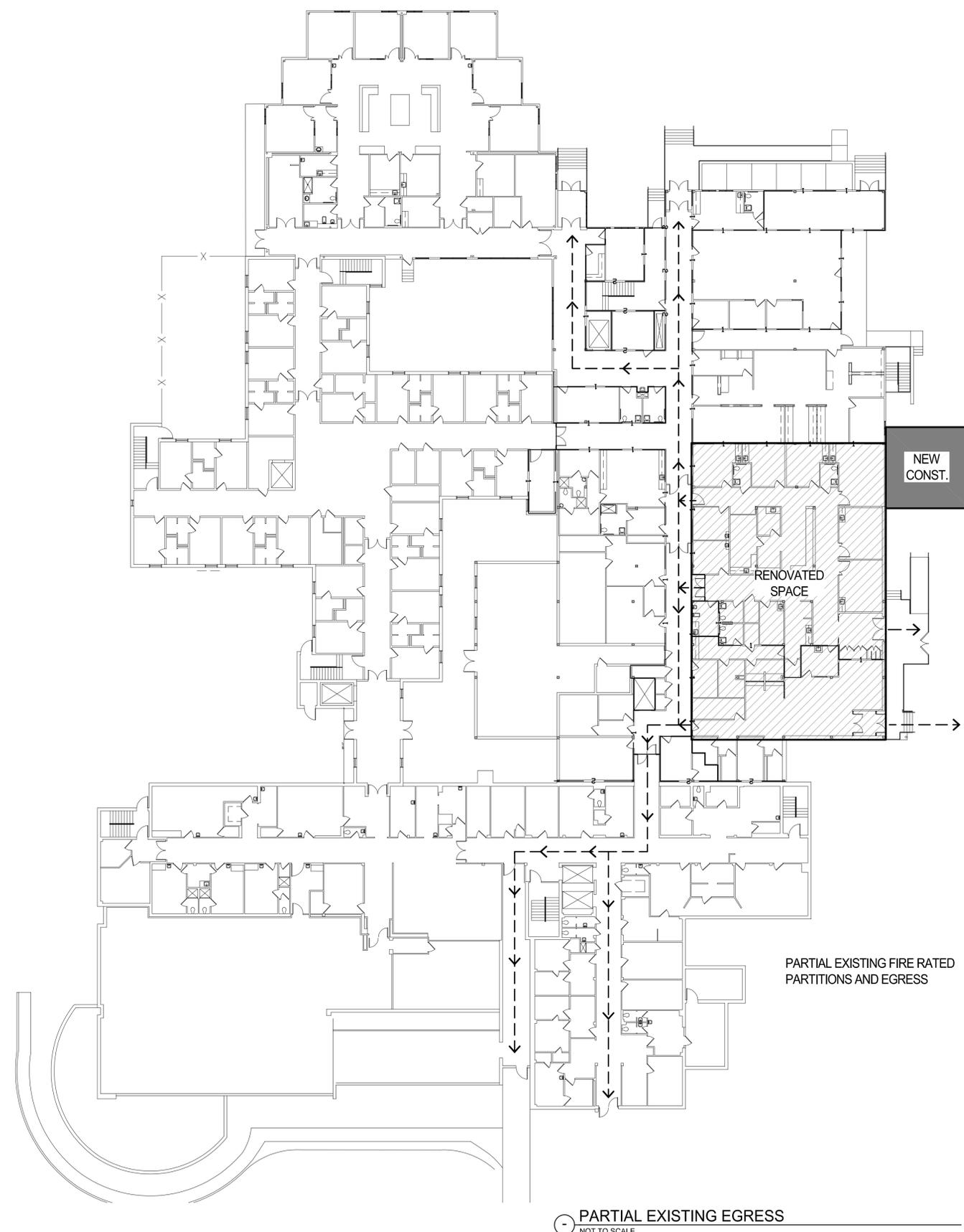
Emergency Lighting

Shall be provided in accordance with section 7.9.

2018 LSC/ 20.3.4:

Detection, Alarm & Communication

Shall be provided with an approved fire alarm system in accordance with section 20.3.4.

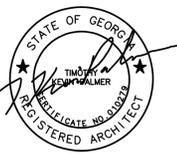


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CODE REVIEW
LSP1



**EMERGENCY DEPT. RENOVATION
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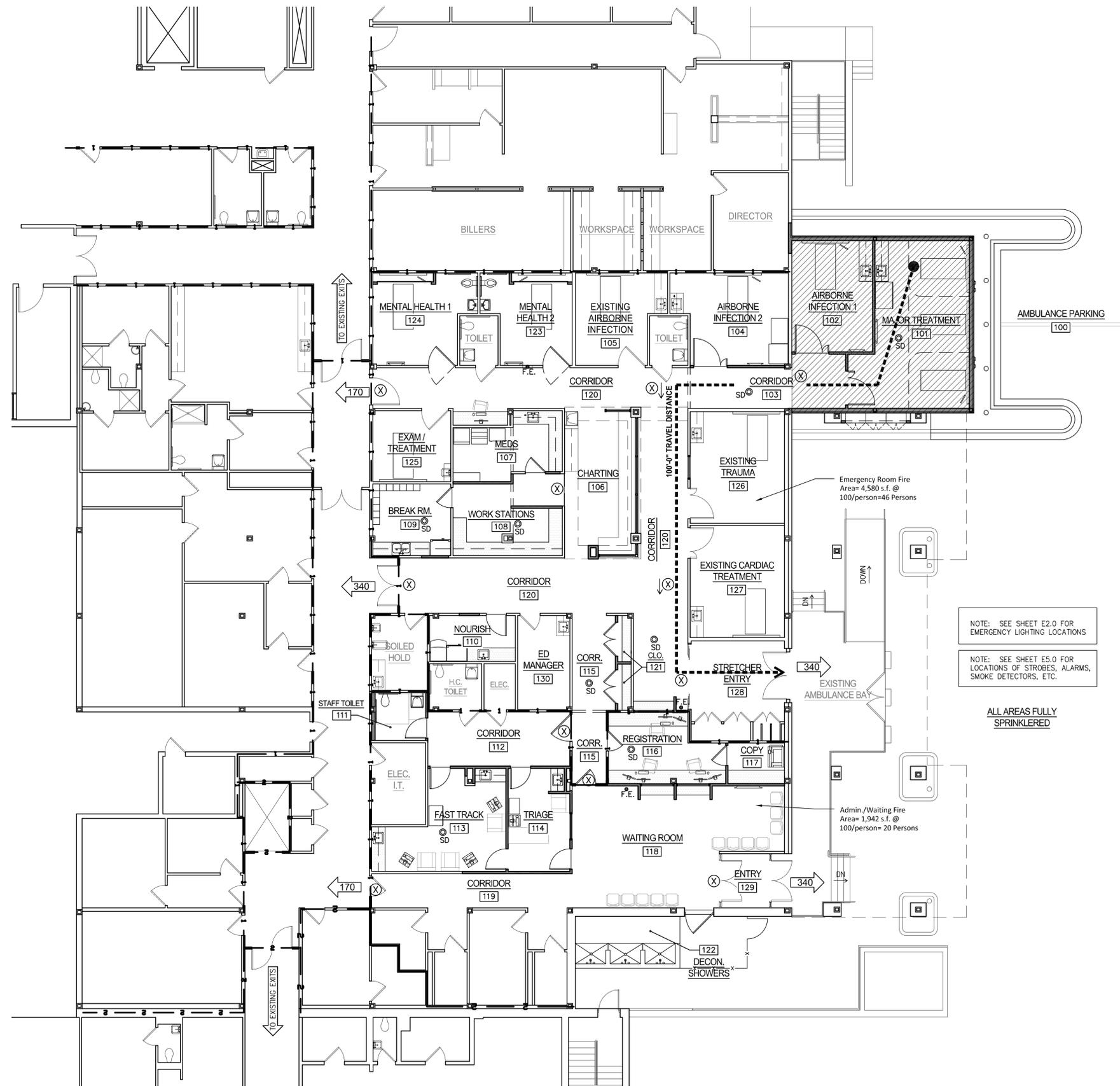
LIFE SAFETY PLAN

LSP2

SYMBOL LEGEND

- # → CAPACITY OF EXIT
- ▨ NEW CONSTRUCTION— 660 S.F.
(ALL OTHERS RENOVATION OF EXISTING)
- 1 — 1 HOUR RATED WALL
- F.E. FIRE EXTINGUISHER CABINET
RELOCATE EXISTING WHERE APPLICABLE
- SD AUTOMATIC SMOKE DETECTOR
- ⊗ EXIT LIGHT FIXTURE, ARROW INDICATES
EGRESS ROUTE

SPECIAL NOTE:
TYPE 10 A, B, C, RATED PORTABLE FIRE EXTINGUISHERS SHALL BE
PLACED AT A MAXIMUM OF 75 FEET OF TRAVEL DISTANCE AND OR
TO BE ABLE TO ADEQUATELY COVER A MAXIMUM OF 6,000 SQ.F.
PER EXTINGUISHER.



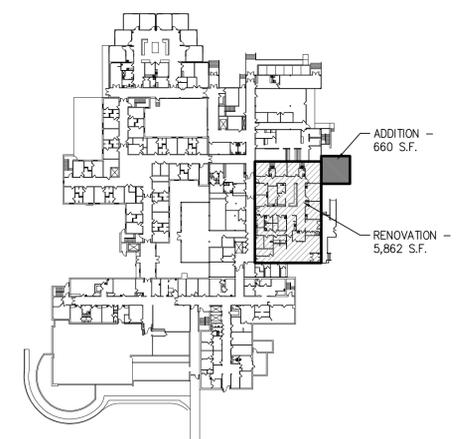
NOTE: SEE SHEET E2.0 FOR
EMERGENCY LIGHTING LOCATIONS

NOTE: SEE SHEET E5.0 FOR
LOCATIONS OF STROBES, ALARMS,
SMOKE DETECTORS, ETC.

**ALL AREAS FULLY
SPRINKLERED**

Emergency Room Fire
Area= 4,580 s.f. @
100/person=46 Persons

Admin./Waiting Fire
Area= 1,942 s.f. @
100/person= 20 Persons



KEY PLAN
1" = 80'-0"

LIFE SAFETY PLAN
1/8" = 1'-0"

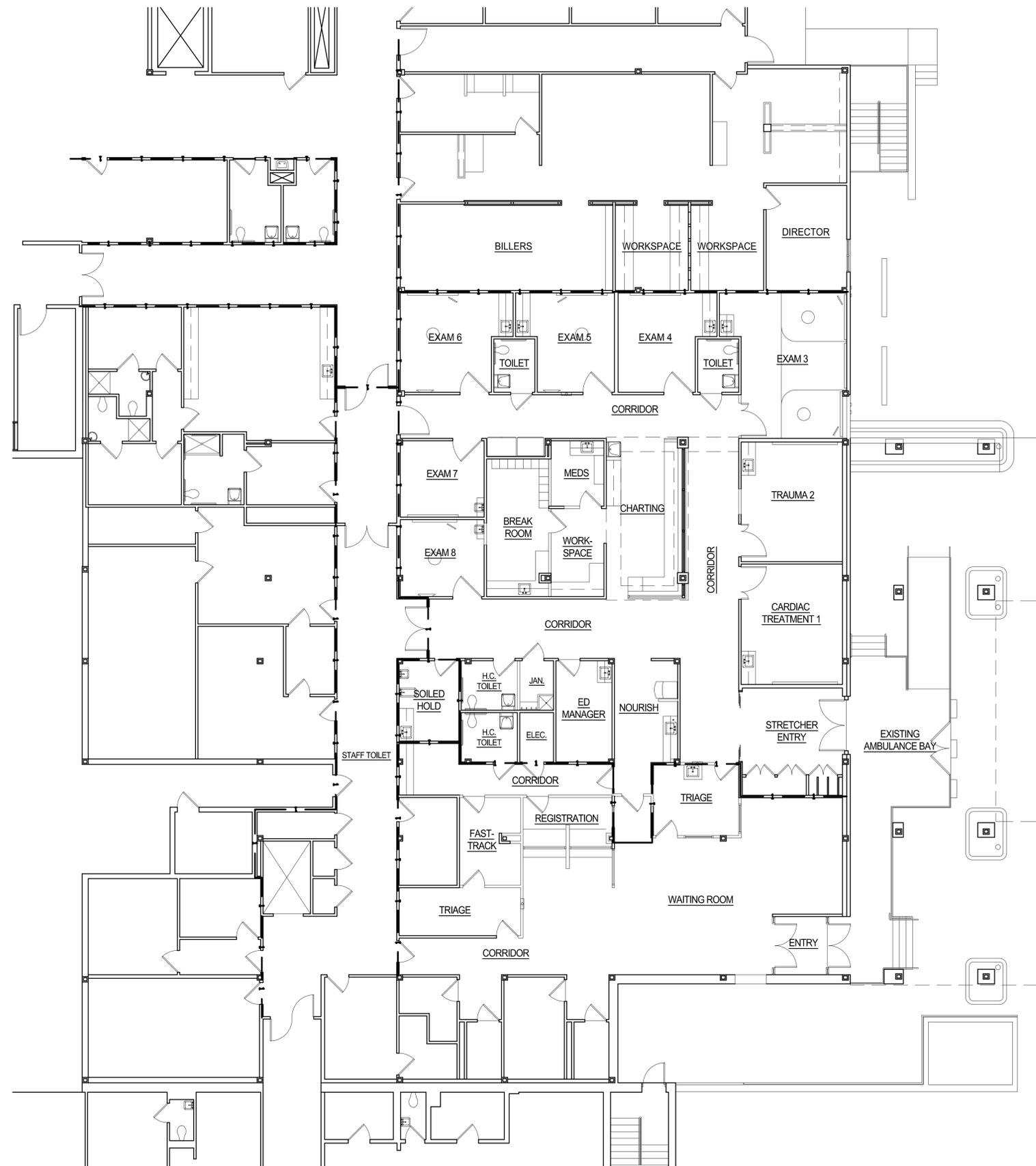


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EXISTING
FLOOR PLAN

A0.0



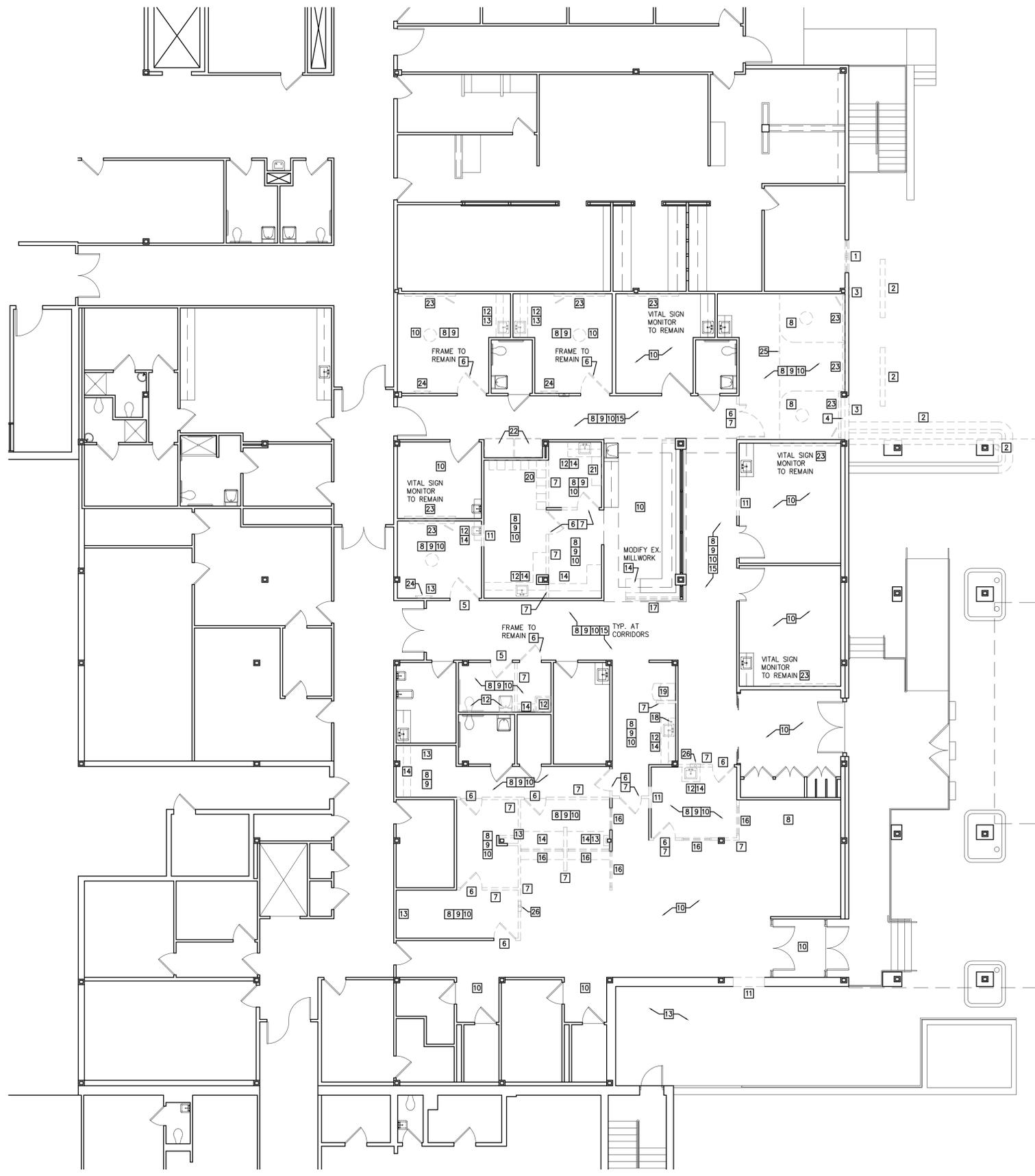
1 EXISTING FLOOR PLAN
1/8" = 1'-0"



**EMERGENCY DEPT. RENOVATION
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SWAINSBORO, GEORGIA

KEYED DEMOLITION NOTES

- REMOVE EXISTING WINDOW & FILL VOID TO MATCH SURROUNDING EXTERIOR WALL.
EXTERIOR WALL COMPOSITION:
- 2" THICK E.I.F.S. WALL PANEL
- 1/2" PLYWOOD SHEATHING
- 3 1/2" LIGHT GAUGE STEEL STUDS AT 16" O.C.
- MIN. R-19 BATT INSULATION
- GYPSUM WALL BOARD, MATCH EXISTING THICKNESS
- PAINT INTERIOR WALL FACE TO MATCH EXISTING
- DEMOLISH INDICATED PORTION OF CONCRETE CURB AND GUTTER AS REQUIRED FOR NEW CONSTRUCTION. REMOVE EXISTING WHEEL STOPS AND BOLLARD.
- REMOVE AND RELOCATE EXTERIOR ELECTRICAL OUTLETS. SEE 1/A1.1 FOR NEW LOCATION OF OUTLETS.
- DEMO INDICATED PORTION OF EXTERIOR WALL AS REQUIRED FOR NEW CONSTRUCTION.
- REMOVE EXISTING DOOR, FRAME, TRIM, HARDWARE, ETC. INFILL WITH 3 5/8" NOM. METAL STUD FRAMING @ 16" O.C. WITH 5/8" GYPSUM WALL BOARD BOTH SIDES FLUSH WITH EXISTING WALL.
- REMOVE EXISTING DOOR, FRAME, TRIM, HARDWARE, ETC. AS REQUIRED FOR NEW CONSTRUCTION.
- REMOVE INTERIOR WALL, INCLUDING: G.W.B., STUDS, BASE PLATE, PURLINS, TOP PLATE, BASE MOULD, OUTLETS, JUNCTION BOXES, SWITCHES, PHONE JACKS, WIRING, ETC. CONTRACTOR TO AVOID DAMAGING CEILING AND FLOOR SLAB AS MUCH AS POSSIBLE. ABANDONED WIRING MUST BE CAPPED AND SEALED IN A JUNCTION BOX.
- REMOVE LIGHT FIXTURE ABOVE ALONG WITH MOUNTING KIT AND ASSOCIATED HARDWARE. SEE ELECTRICAL CIRCUIT IS EITHER TO BE RELOCATED FOR REUSE OR CAPPED AND SEALED IN A JUNCTION BOX ABOVE CEILING.
- REMOVE EXISTING CEILING TILE AND SUSPENDED CEILING GRID ABOVE.
- REMOVE EXISTING FLOORING, PADDING, GLUE, GROUT, TILE BED, WATERPROOFING, ETC. AND RE-FINISH CONCRETE SLAB TO RECEIVE NEW FLOORING PER FINISH SCHEDULE AND MANUFACTURER'S INSTALLATION RECOMMENDATIONS. SEE SHEET A7.0.
- CUT OPENING / REMOVE INTERIOR WALL AS INDICATED TO ACCEPT NEW CONSTRUCTION (NEW DOOR OR CASED OPENING, SEE A1.0). INCLUDES G.W.B., STUDS, BASE PLATE, PURLINS, TOP PLATE, BASE MOULD, OUTLETS, JUNCTION BOXES, SWITCHES, PHONE JACKS, WIRING, ETC.
- REMOVE EXISTING PLUMBING FIXTURE AND CAP ANY ABANDONED PLUMBING LINES, SEE PLUMBING DRAWINGS FOR ADDITIONAL INSTRUCTION.
- SAW CUT AND REMOVE FLOOR SLAB AS REQUIRED TO INSTALL NEW WATER AND SANITARY SEWER LINES PER FINAL FLOOR PLAN, SHEET A1.0. RE-POUR SLAB TO MATCH SURROUNDING AND AS REQUIRED TO PROPERLY RECEIVE NEW FLOORING.
- REMOVE EXISTING MILLWORK INCLUDING BUT NOT LIMITED TO CABINETS, COUNTERTOPS AND BUILT-IN SHELVING. REPAIR/REPLACE ANY DAMAGED FLOORING OR EXISTING DRYWALL.
- REMOVE EXISTING FIBER-REINFORCED PLASTIC WALL PANELS, RUBBER BASE, BUMPER RAILS AND CORNER GUARDS. REPAIR ANY DAMAGED DRYWALL.
- REMOVE EXISTING INTERIOR WINDOW/STOREFRONT.
- REMOVE EXISTING WINDOW FOR REUSE. MODIFY FRAME AS REQUIRED FOR NEW CONSTRUCTION, SEE A1.1.
- RELOCATE EXISTING EYE WASH STATION TO AIRBORNE INFECTION 2 (RM. #104), SEE A1.1 FOR NEW LOCATION. CAP ANY ABANDONED PLUMBING LINES, SEE PLUMBING DRAWINGS FOR ADDITIONAL INSTRUCTION.
- RELOCATE EXISTING ICE MAKER TO NEW NOURISHMENT SPACE (RM. #110), SEE A1.2 FOR NEW LOCATION.
- REMOVE AND RELOCATE STORAGE LOCKERS TO NEW BREAK ROOM (RM. #109), SEE A1.1 FOR NEW LOCATION.
- REMOVE AND RELOCATE SHELVING UNIT TO NEW MEDICATION ROOM (RM. #107), SEE A1.1 FOR NEW LOCATION.
- RELOCATE EQUIPMENT, COORDINATE WITH OWNER/OPERATOR.
- REMOVE EXISTING HEADWALL UNIT AND VITAL SIGN MONITOR. COORDINATE WITH OWNER FOR STORAGE OR DISPOSAL.
- REMOVE EXISTING WALL MOUNT TELEVISION.
- REMOVE CURTAIN PARTITION AND TRACK.
- RELOCATE EXISTING FIRE EXTINGUISHER CABINET, SEE A1.2 FOR NEW LOCATION



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

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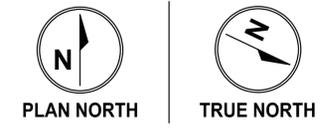
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DEMOLITION PLAN

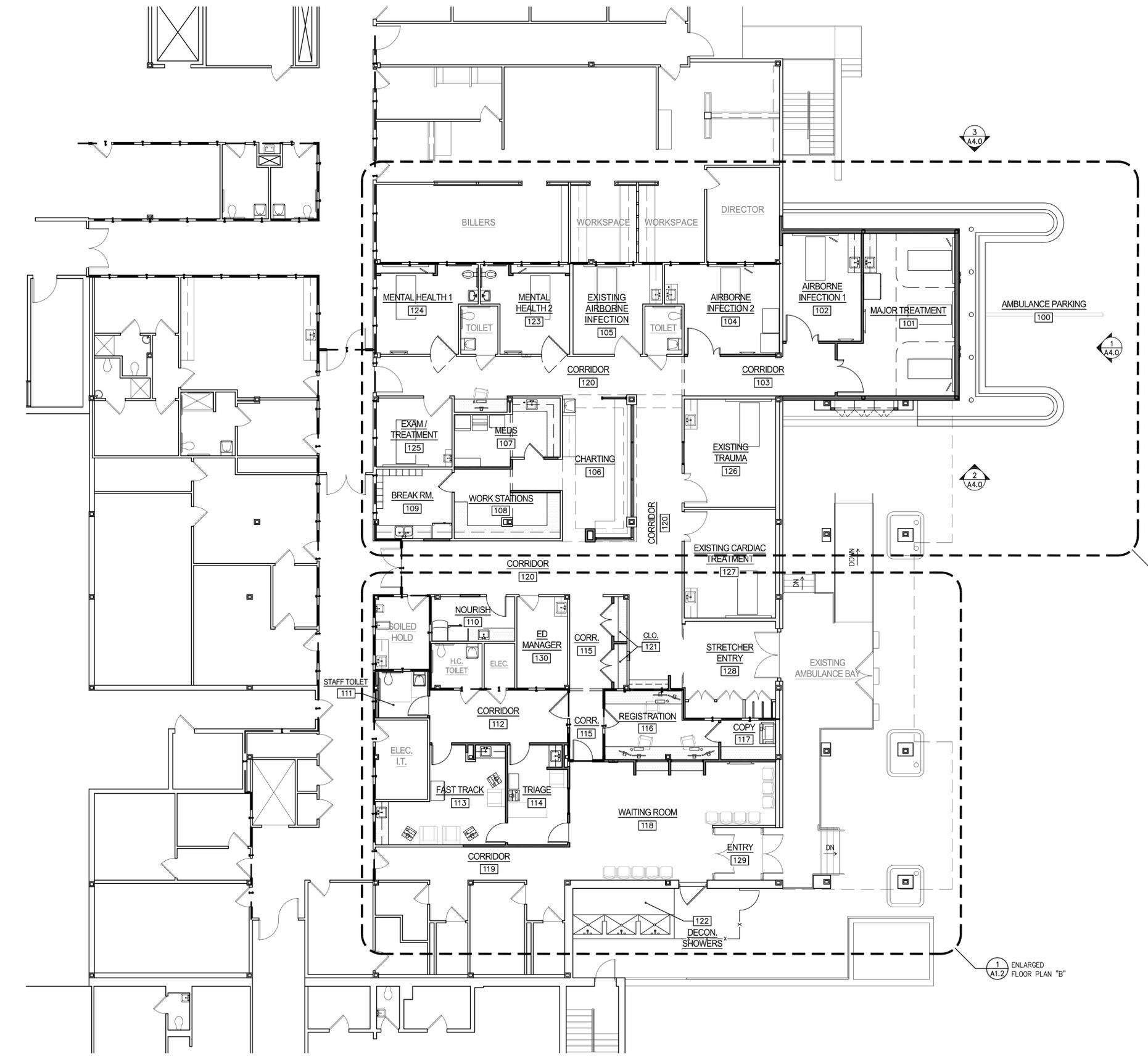
A0.1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A
B
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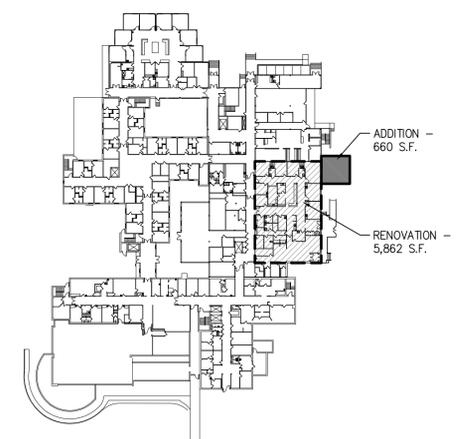


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1 ENLARGED FLOOR PLAN "A"

1 ENLARGED FLOOR PLAN "B"



KEY PLAN
1" = 80'-0"

1 COMPOSITE FLOOR PLAN
1/8" = 1'-0"

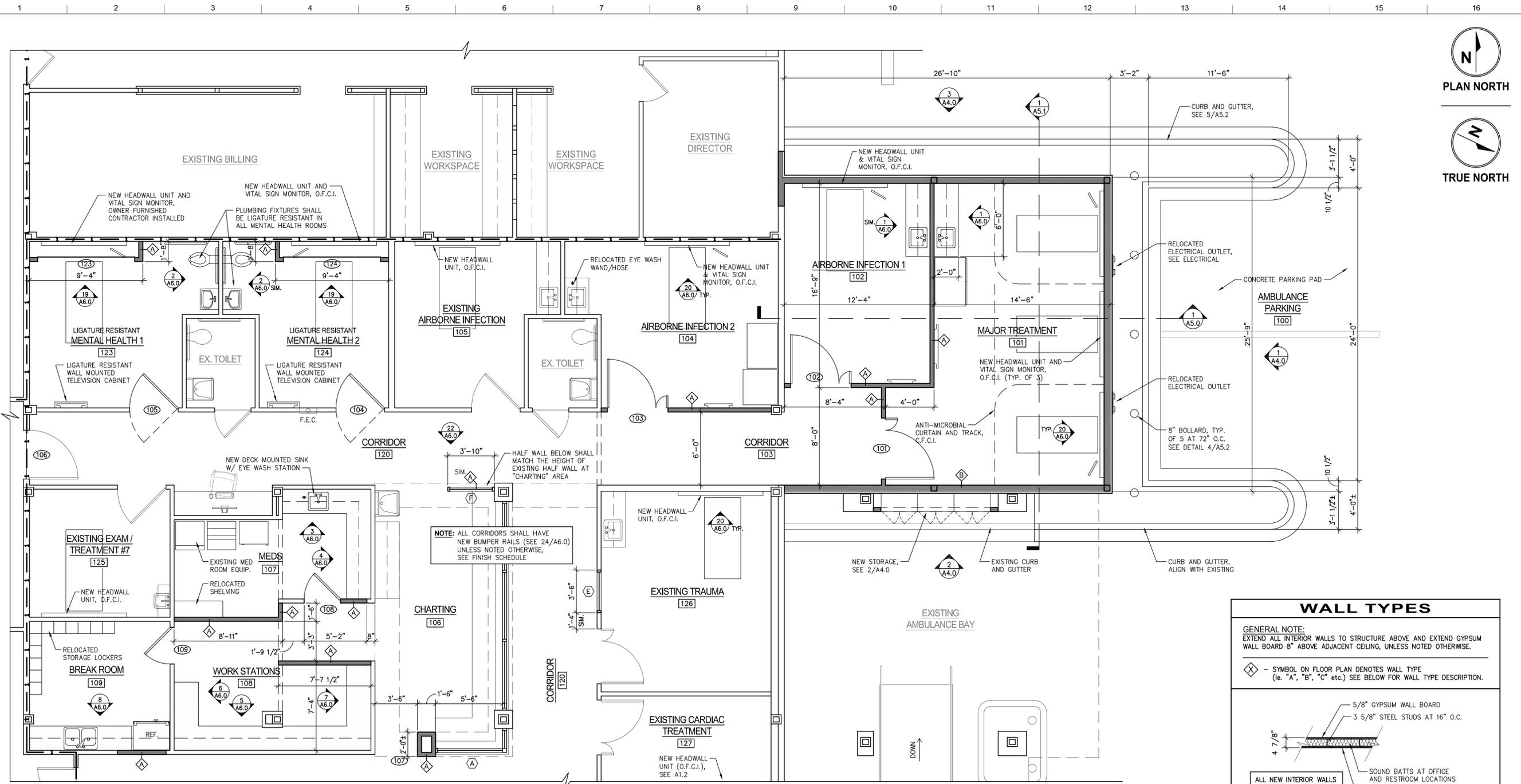
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COMPOSITE FLOOR PLAN

A1.0

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



1 ENLARGED FLOOR PLAN "A"
1/4" = 1'-0"

WALL TYPES

GENERAL NOTE:
EXTEND ALL INTERIOR WALLS TO STRUCTURE ABOVE AND EXTEND GYPSUM WALL BOARD 8" ABOVE ADJACENT CEILING, UNLESS NOTED OTHERWISE.

◆ - SYMBOL ON FLOOR PLAN DENOTES WALL TYPE (i.e. "A", "B", "C" etc.) SEE BELOW FOR WALL TYPE DESCRIPTION.

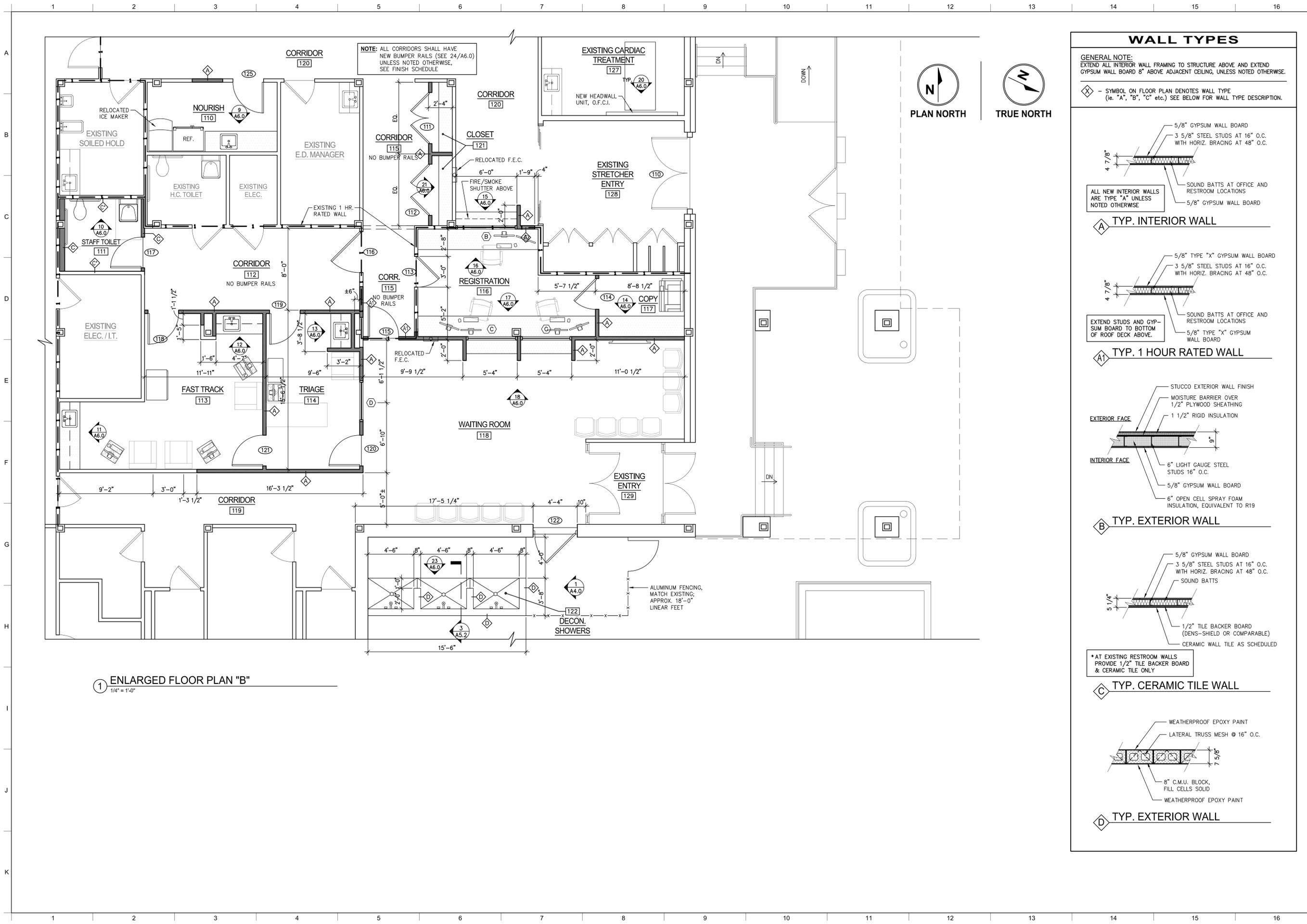
TYP. INTERIOR WALL

TYP. EXTERIOR WALL

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ENLARGED
FLOOR PLAN
A1.1



1 ENLARGED FLOOR PLAN "B"
1/4" = 1'-0"

WALL TYPES

GENERAL NOTE:
EXTEND ALL INTERIOR WALL FRAMING TO STRUCTURE ABOVE AND EXTEND GYPSUM WALL BOARD 8" ABOVE ADJACENT CEILING, UNLESS NOTED OTHERWISE.

◇ SYMBOL ON FLOOR PLAN DENOTES WALL TYPE (i.e. "A", "B", "C" etc.) SEE BELOW FOR WALL TYPE DESCRIPTION.

A TYP. INTERIOR WALL

- 5/8" GYPSUM WALL BOARD
- 3 5/8" STEEL STUDS AT 16" O.C. WITH HORIZ. BRACING AT 48" O.C.
- SOUND BATTS AT OFFICE AND RESTROOM LOCATIONS
- 5/8" GYPSUM WALL BOARD

A1 TYP. 1 HOUR RATED WALL

- 5/8" TYPE "X" GYPSUM WALL BOARD
- 3 5/8" STEEL STUDS AT 16" O.C. WITH HORIZ. BRACING AT 48" O.C.
- SOUND BATTS AT OFFICE AND RESTROOM LOCATIONS
- 5/8" TYPE "X" GYPSUM WALL BOARD

B TYP. EXTERIOR WALL

- STUCCO EXTERIOR WALL FINISH
- MOISTURE BARRIER OVER 1/2" PLYWOOD SHEATHING
- 1 1/2" RIGID INSULATION
- 6" LIGHT GAUGE STEEL STUDS 16" O.C.
- 5/8" GYPSUM WALL BOARD
- 6" OPEN CELL SPRAY FOAM INSULATION, EQUIVALENT TO R19

C TYP. CERAMIC TILE WALL

- WEATHERPROOF EPOXY PAINT
- LATERAL TRUSS MESH @ 16" O.C.
- 8" C.M.U. BLOCK, FILL CELLS SOLID
- WEATHERPROOF EPOXY PAINT

D TYP. EXTERIOR WALL

- 5/8" GYPSUM WALL BOARD
- 3 5/8" STEEL STUDS AT 16" O.C. WITH HORIZ. BRACING AT 48" O.C.
- SOUND BATTS
- 1/2" TILE BACKER BOARD (DENS-SHIELD OR COMPARABLE)
- CERAMIC WALL TILE AS SCHEDULED

*** AT EXISTING RESTROOM WALLS PROVIDE 1/2" TILE BACKER BOARD & CERAMIC TILE ONLY**

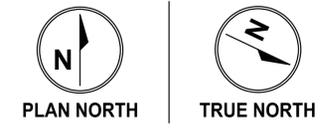


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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A
B
C
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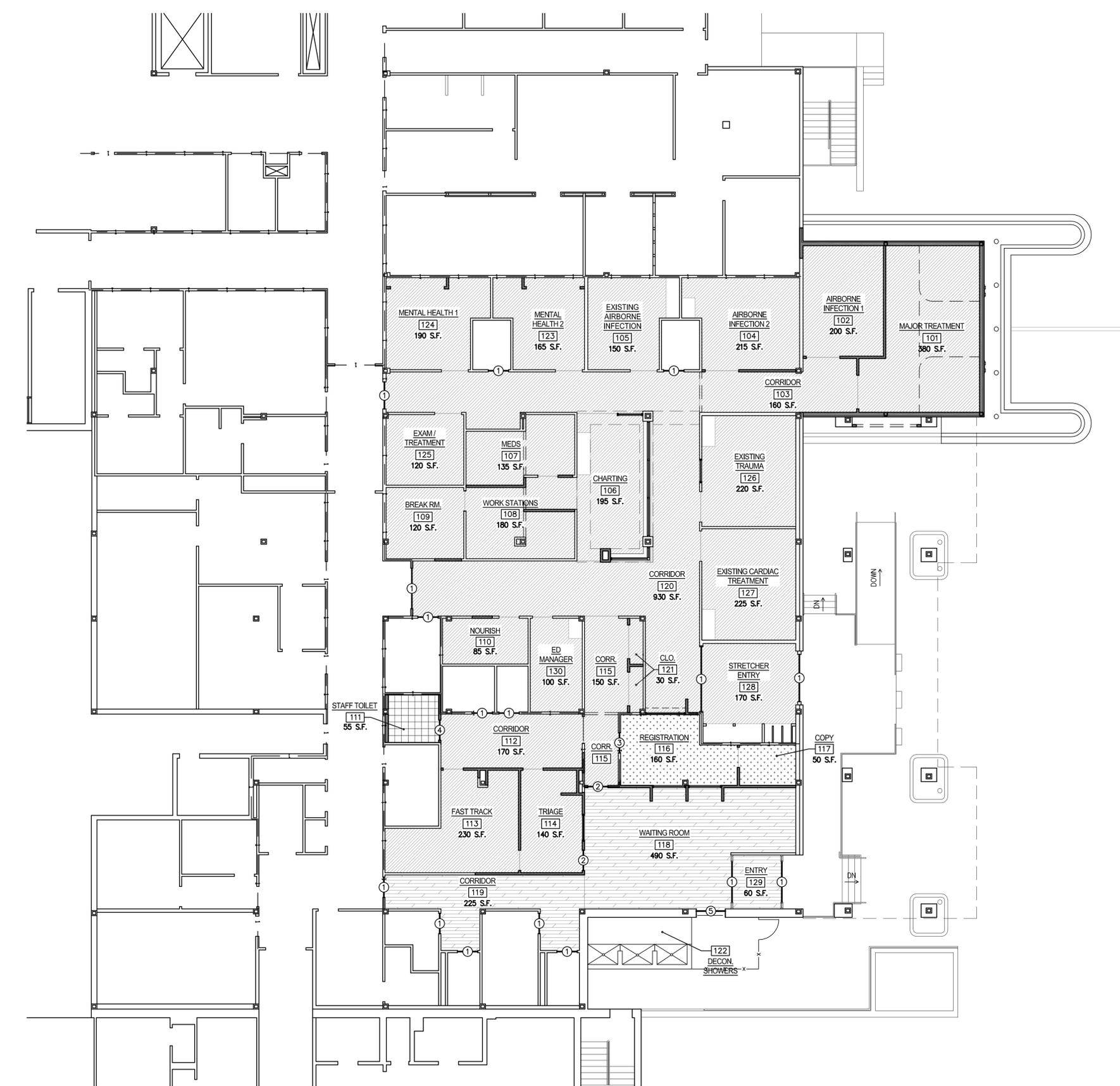


12A E. GRADY STREET
P.O. BOX 1382
912-764-6288

STATESBORO
GEORGIA 30458

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FLOOR FINISH LEGEND	
	RESILIENT VINYL SHEET FLOORING
	CARPET TILE FLOORING
	CERAMIC TILE FLOORING
	LUXURY VINYL PLANK RESILIENT FLOORING

FLOORING TRANSITIONS	
①	EXISTING FLOORING TRANSITION
②	RESILIENT FLOOR TRANSITION STRIP
③	RESILIENT FLOOR TRANSITION STRIP, CARPET TO SHEET VINYL TRANSITION
④	MARBLE THRESHOLD, CERAMIC TILE TO SHEET VINYL TRANSITION
⑤	HANDICAP THRESHOLD

**EMERGENCY DEPT. RENOVATION
EMANUEL MEDICAL CENTER
SWAINSBORO, GEORGIA**

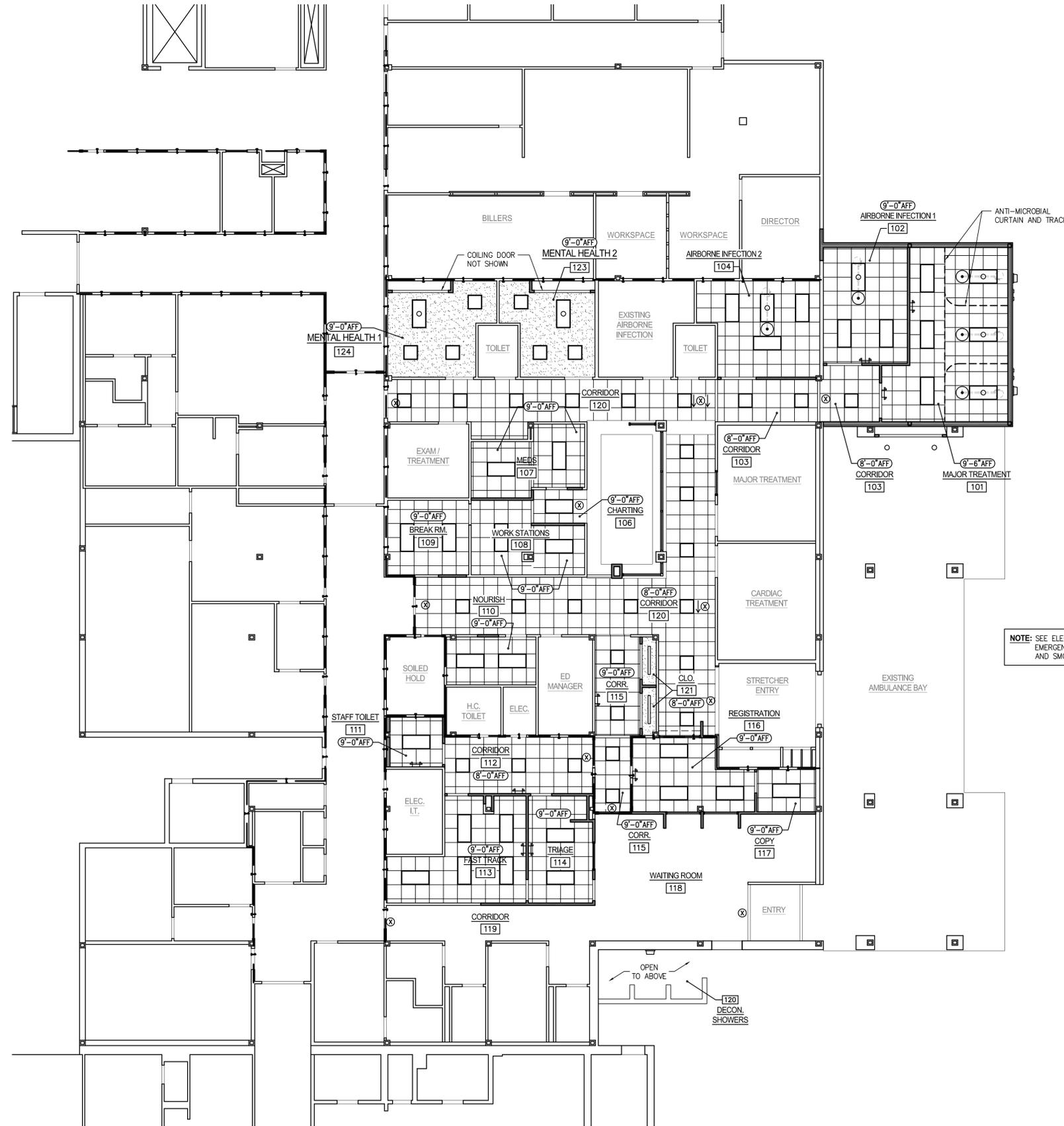
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DRAWN BY:	AMG
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SCHEDULE OF REVISIONS	
#	DATE

1 FLOOR FINISH PLAN
1/8" = 1'-0"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A
B
C
D
E
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G
H
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J
K



REFLECTED CEILING LEGEND

	2x2 ACOUSTICAL CEILING TILE AND GRID
	EXPOSED STRUCTURE
	GYPSUM BOARD CEILING
	CEILING MOUNTED ARM EXAM LIGHT
	2x4 EXAM LIGHT
	2x2 LED FLAT PANEL
	2x4 LED FLAT PANEL
	48" LED FLAT/FLUSH STRIP LIGHT
	1x4 LED FLUSH MOUNT FIXTURE
	24" LED WALL MOUNT VANITY LIGHT
	8" LED RECESSED CAN
	EXIT LIGHT FIXTURE, ARROW INDICATES EGRESS ROUTE
	EXIT LIGHT FIXTURE W/ EMERGENCY LIGHT ON BATTERY BACK-UP, "L" INDICATES REMOTE LAMP
	EMERGENCY LIGHT ON BATTERY BACK-UP
	WALL PACK LIGHT FIXTURE W/ PHOTOCELL
	SMOKE DETECTOR

NOTE: SEE ELECTRICAL DRAWINGS FOR EMERGENCY LIGHT, STROBE, HORN AND SMOKE DETECTOR LOCATIONS

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



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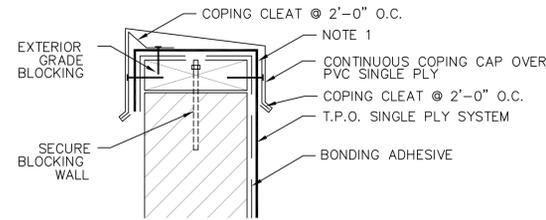


**EMERGENCY DEPT. RENOVATION
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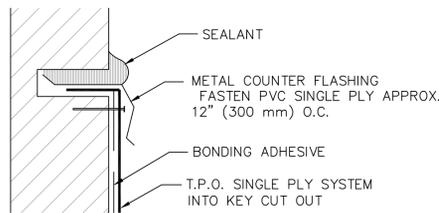
REFLECTED
CEILING PLAN
A2.0

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



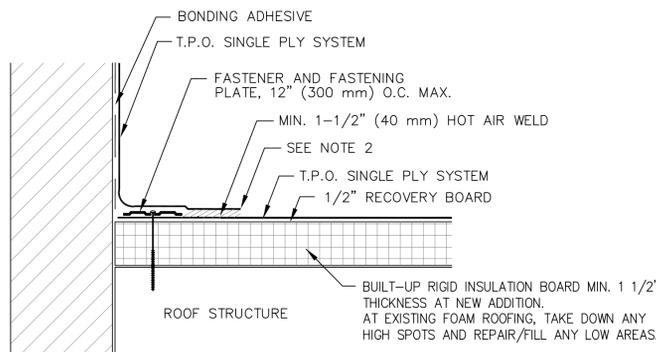
- NOTES:**
1. PLACE A LAYER OF PVC SINGLE PLY UNDER THE METAL CAP TO PROTECT AGAINST MOISTURE INFILTRATION AT JOINTS.

2 WALL CAP FLASHING DETAIL
NOT TO SCALE



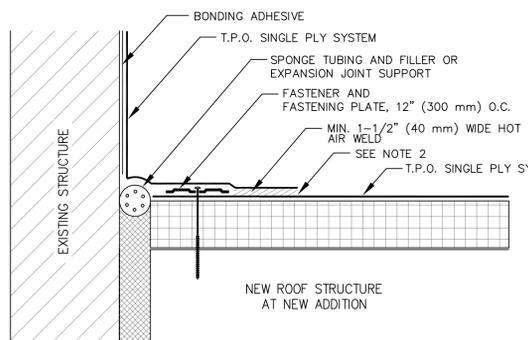
- NOTES:**
1. COUNTER FLASHING SHALL BE ELEVATED ABOVE PONDED WATER.

3 COUNTER FLASHING DETAIL
NOT TO SCALE



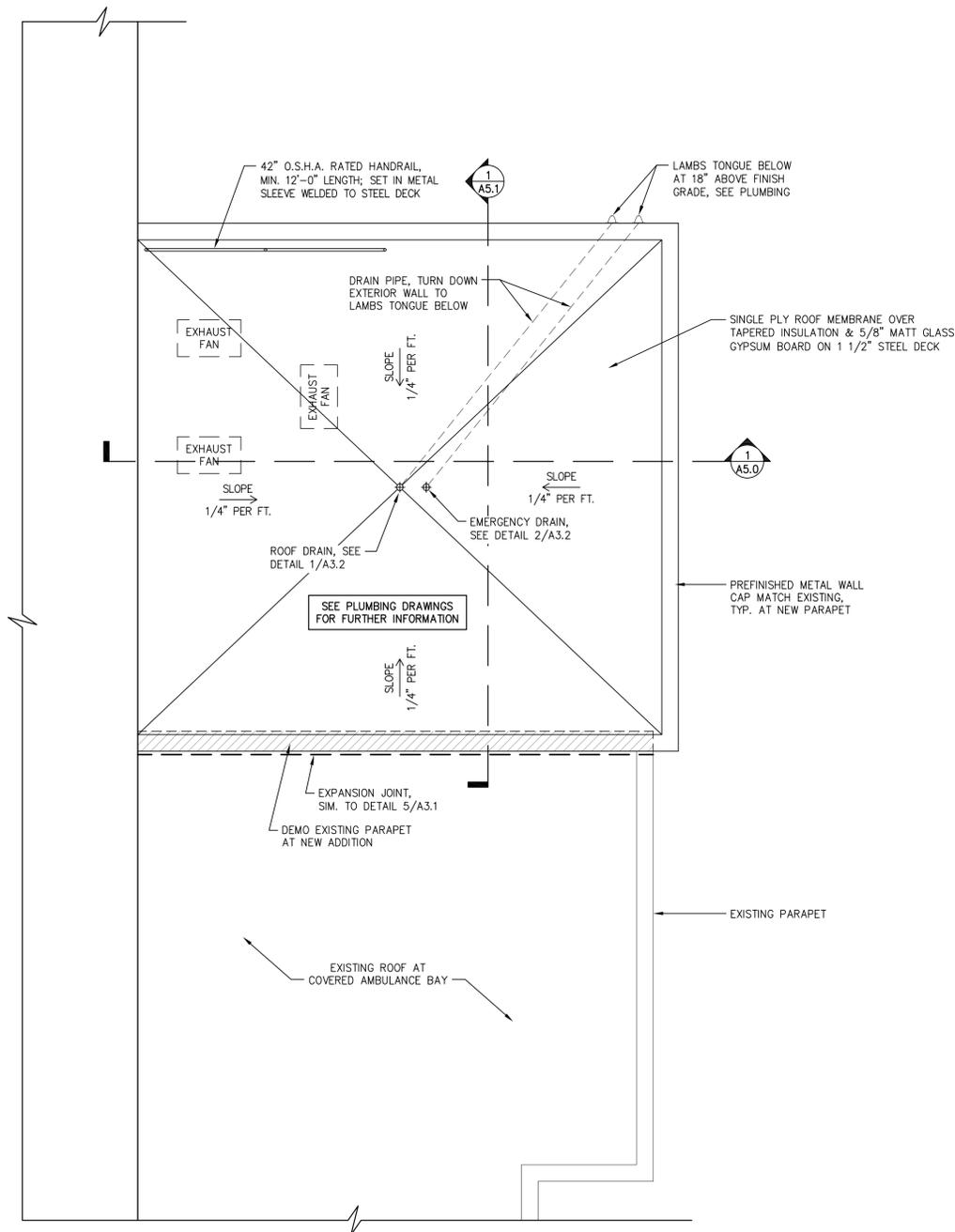
- NOTES:**
1. POSITION FASTENING PLATES 1/2" (13 mm) TO 1" (25 mm) FROM EDGE OF DECK MEMBRANE.
 2. APPROXIMATELY 1/8" (3 mm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF SURE-WELD REINFORCED MEMBRANE.

4 VERTICAL WALL FLASHING
NOT TO SCALE

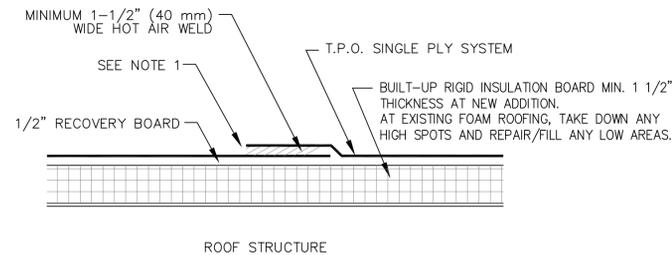


- NOTES:**
1. POSITION FASTENING PLATES 1/2" (13 mm) MINIMUM TO 1" (25 mm) MAXIMUM FROM EDGE OF DECK FLANGE.
 2. APPROXIMATELY 1/8" (3 mm) DIA. BEAD OF EDGE SEALANT IS REQUIRED ON CUT EDGES OF SURE-WELD REINFORCED MEMBRANE.

5 EXPANSION JOINT AT JUNCTION OF DECK & WALL
NOT TO SCALE

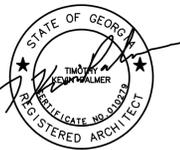
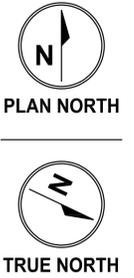


1 ROOF PLAN
1/4" = 1'-0"

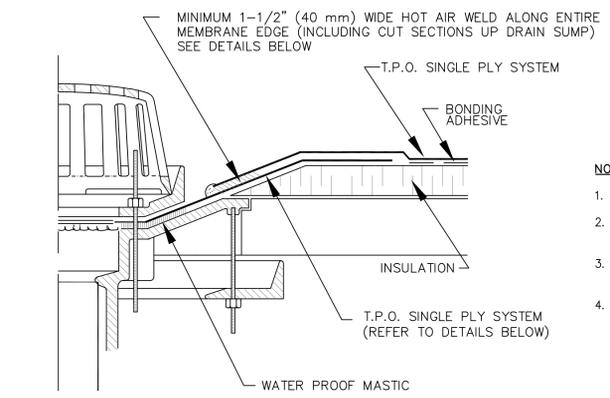


- NOTES:**
1. APPROXIMATELY 1/8" (3 mm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF SURE-WELD REINFORCED MEMBRANE.

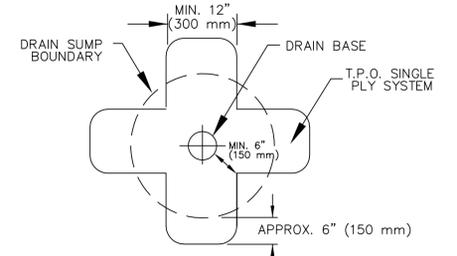
6 LAP CROSS SECTION
NOT TO SCALE



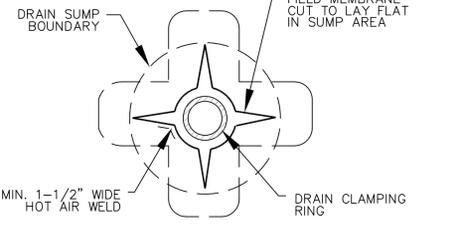
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- NOTES:**
1. REMOVE ALL LEAD AND OTHER FLASHING.
 2. ALL DRAIN BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE COMPRESSION ON WATER CUT-OFF MASTIC.
 3. CUT MEMBRANE SO IT EXTENDS A MINIMUM OF 1/2" (13 mm) FROM ATTACHMENT POINTS OF THE CLAMPING RING.
 4. APPROX. 1/8" (3 mm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF SINGLE PLY SYSTEM.

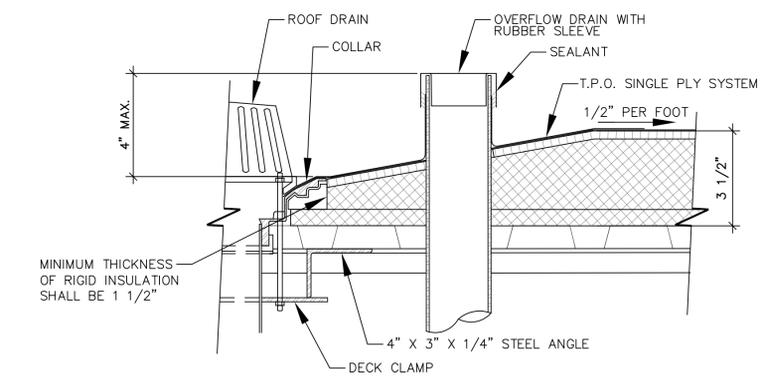


CUT SECTION OF SINGLE PLY SYSTEM AS SHOWN AND POSITION INTO DRAIN SUMP. EXTEND MEMBRANE OUT OF DRAIN SUMP APPROX. 6" (ROUND CORNERS).

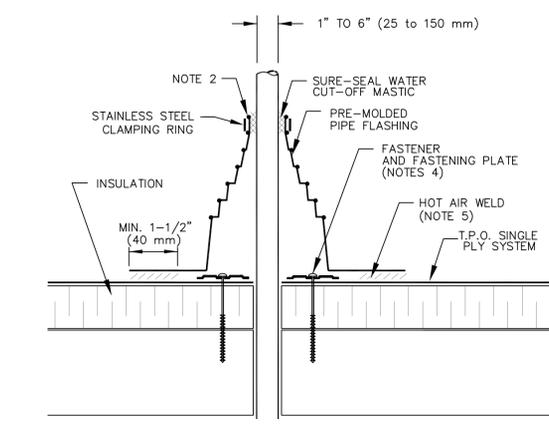


EXTEND SINGLE PLY SYSTEM ONTO MEMBRANE SECTION POSITIONED AT DRAIN SUMP AND CUT AS SHOWN TO LAY FLAT IN SUMP. HOT AIR WELD A MINIMUM OF 1-1/2" (40 mm) COMPLETELY SURROUNDING CUT AREA.

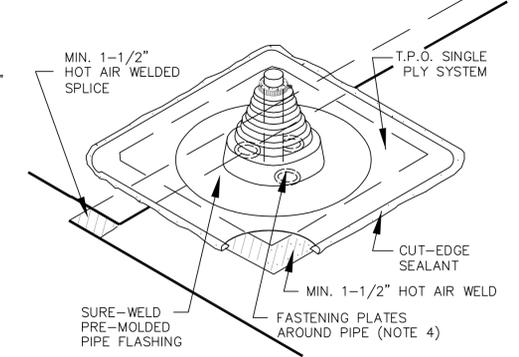
1 ROOF DRAIN FLASHING DETAIL
NOT TO SCALE



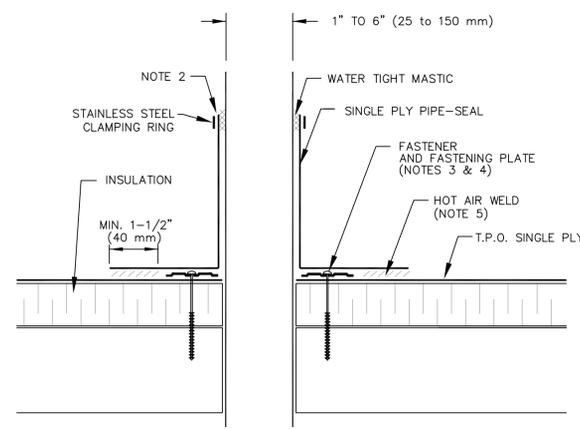
2 ROOF DRAIN & OVERFLOW DETAIL
NOT TO SCALE



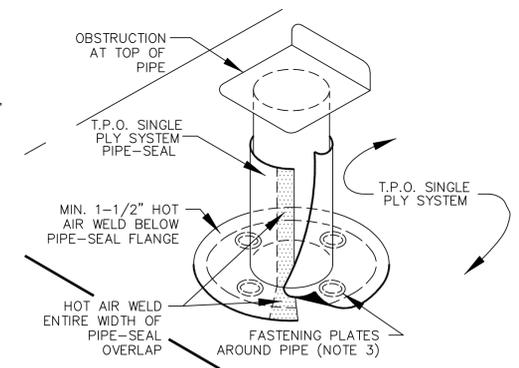
- NOTES:**
1. TEMPERATURE OF PIPE MUST NOT EXCEED 120° F (49° C).
 2. INSTALL FASTENERS AND PLATES AROUND PIPE EQUALLY SPACED. FASTENERS MAY ALSO BE POSITIONED MAXIMUM 12" (300 mm) FROM PIPE, FASTENED 12" ON CENTER AND FLASHED WITH SINGLE PLY SYSTEM.
 3. PIPE FLASHING DECK FLANGE MUST BE HOT AIR WELDED A MINIMUM OF 1-1/2" (40 mm) BEYOND FASTENING PLATES.
 4. INSTALL A SECTION OF SINGLE PLY SYSTEM OVER SPLICE INTERSECTIONS PRIOR TO INSTALLING PRE-MOLDED PIPE FLASHING.



3 PRE-MOLDED PIPE FLASHING DETAIL
NOT TO SCALE



- NOTES:**
1. REMOVE ALL LEAD AND OTHER FLASHING.
 2. TEMPERATURE OF PIPE MUST NOT EXCEED 120° F (49° C).
 3. INSTALL 4 FASTENERS AND PLATES AROUND PIPE EQUALLY SPACED. FASTENERS MAY ALSO BE POSITIONED MAXIMUM 12" (300 mm) FROM PIPE, FASTENED 12" ON CENTER AND FLASHED WITH PVC SINGLE PLY SYSTEM.
 4. PIPE FLASHING DECK FLANGE MUST BE HOT AIR WELDED A MINIMUM OF 1-1/2" (40 mm) BEYOND FASTENING PLATES.

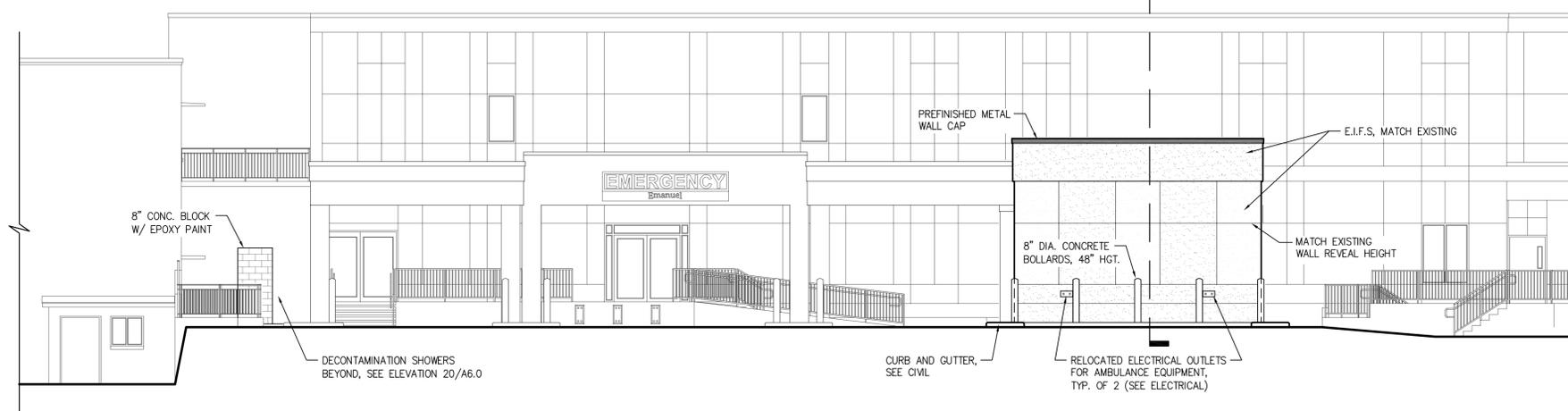


4 PIPE SEAL DETAIL
NOT TO SCALE



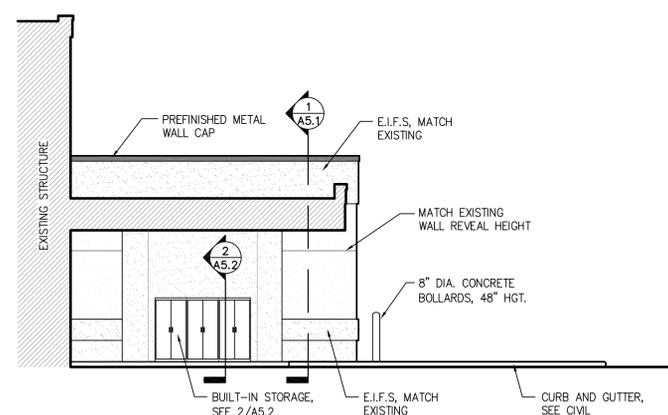
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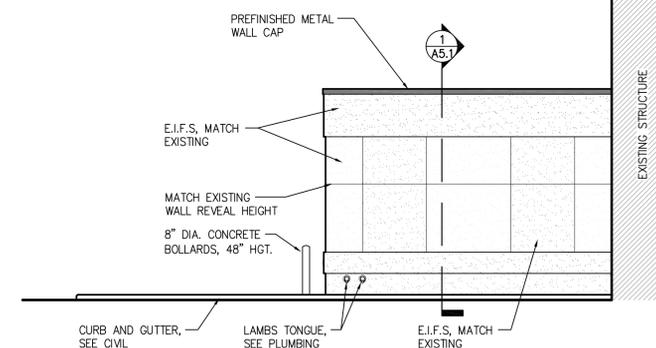


① NORTH ELEVATION
1/8" = 1'-0"

NOTE: ALL EXTERIOR ELEVATIONS
BASED ON TRUE NORTH



② EAST ELEVATION
1/8" = 1'-0"



③ WEST ELEVATION
1/8" = 1'-0"

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SWAINSBORO, GEORGIA**

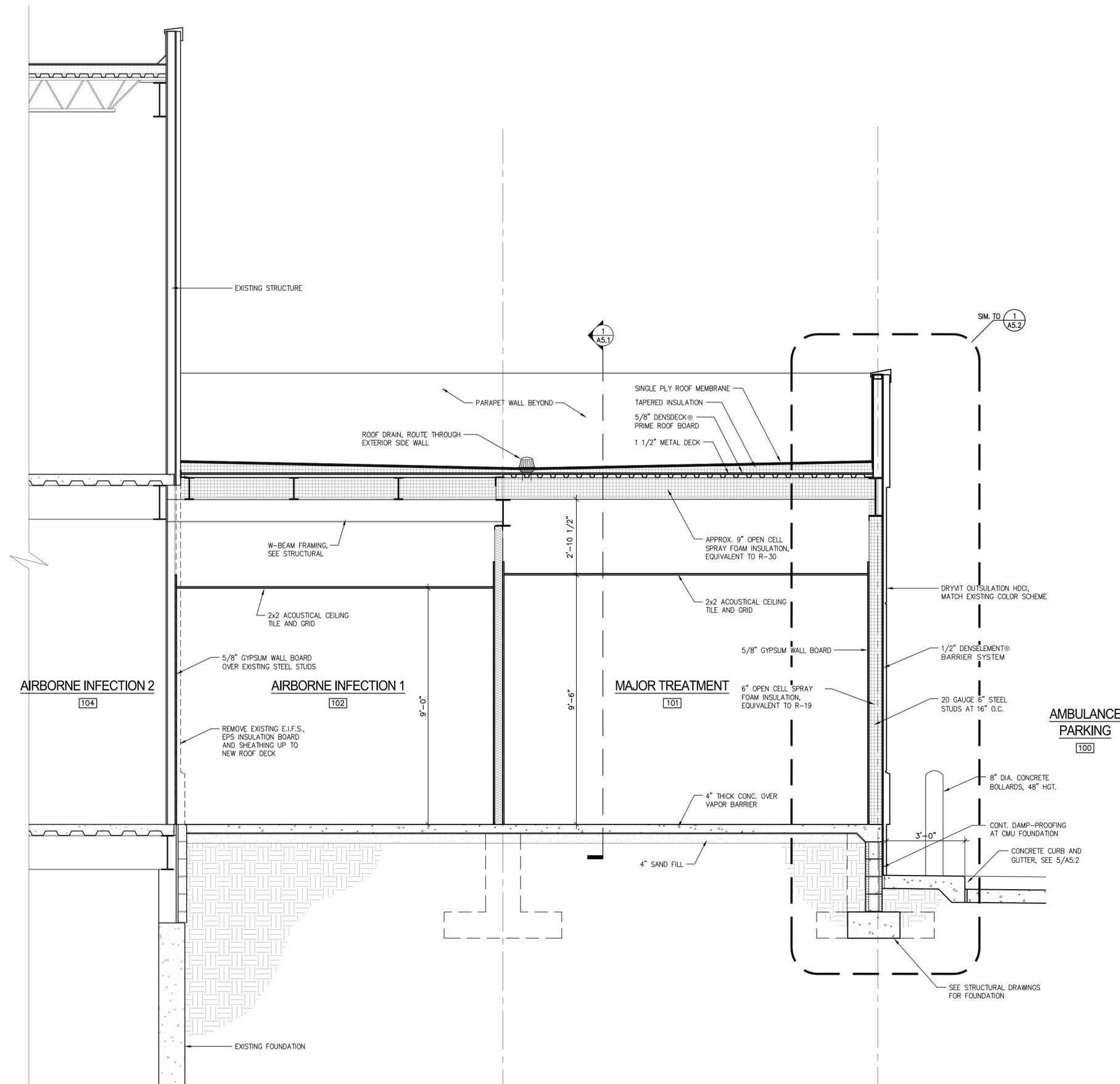
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EXTERIOR
ELEVATIONS

A4.0



**EMERGENCY DEPT. RENOVATION
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SWAINSBORO, GEORGIA**



1 BUILDING SECTION
1/2" = 1'-0"

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BUILDING SECTION
A5.0



**EMERGENCY DEPT. RENOVATION
EMANUEL MEDICAL CENTER
SWAINSBORO, GEORGIA**

BID SET

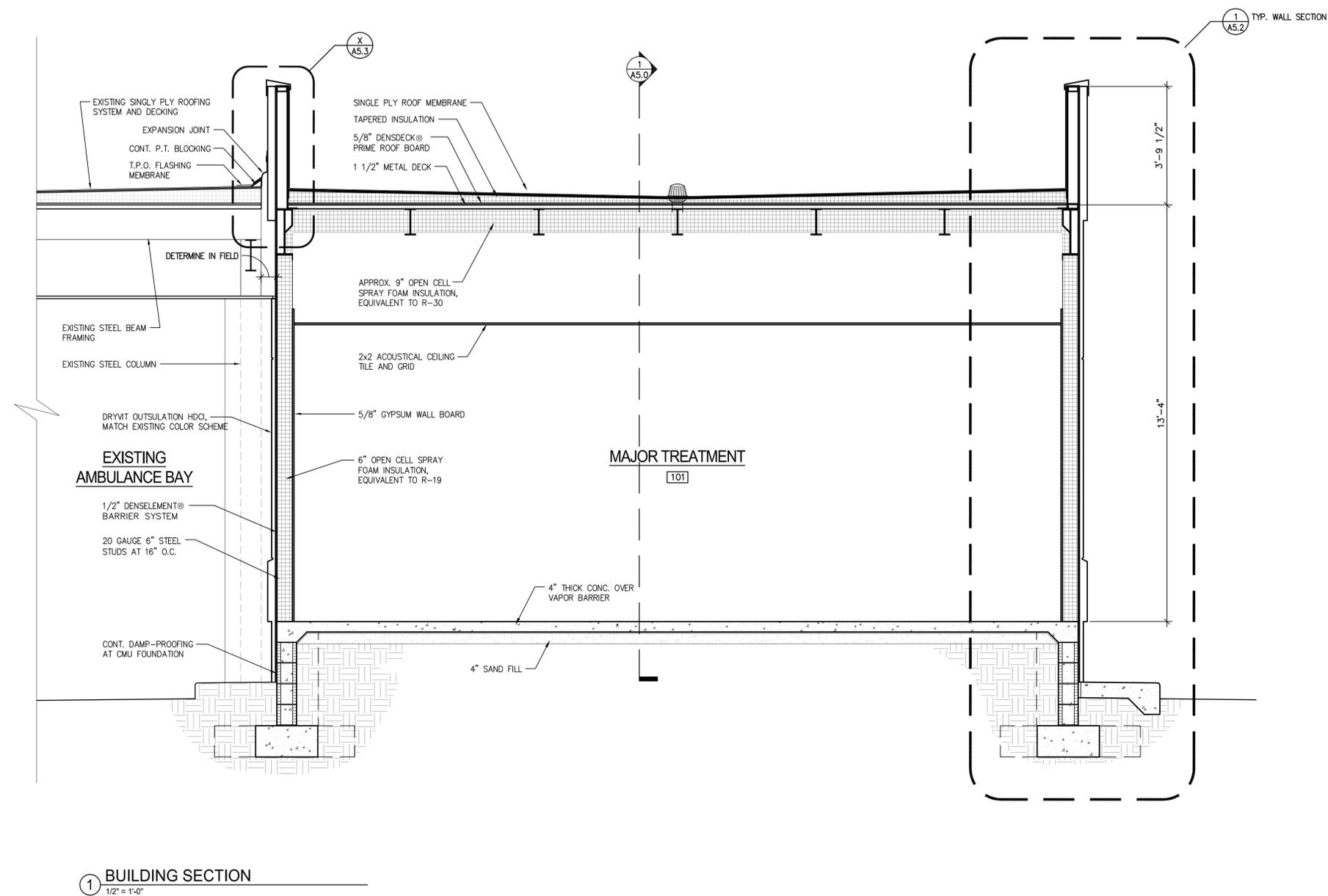
PROJECT NUMBER: 2235
PROJECT DATE: 2/14/2024
DRAWN BY: AMG
APPROVED BY: TKP

SCHEDULE OF REVISIONS

#	DATE

BUILDING SECTION

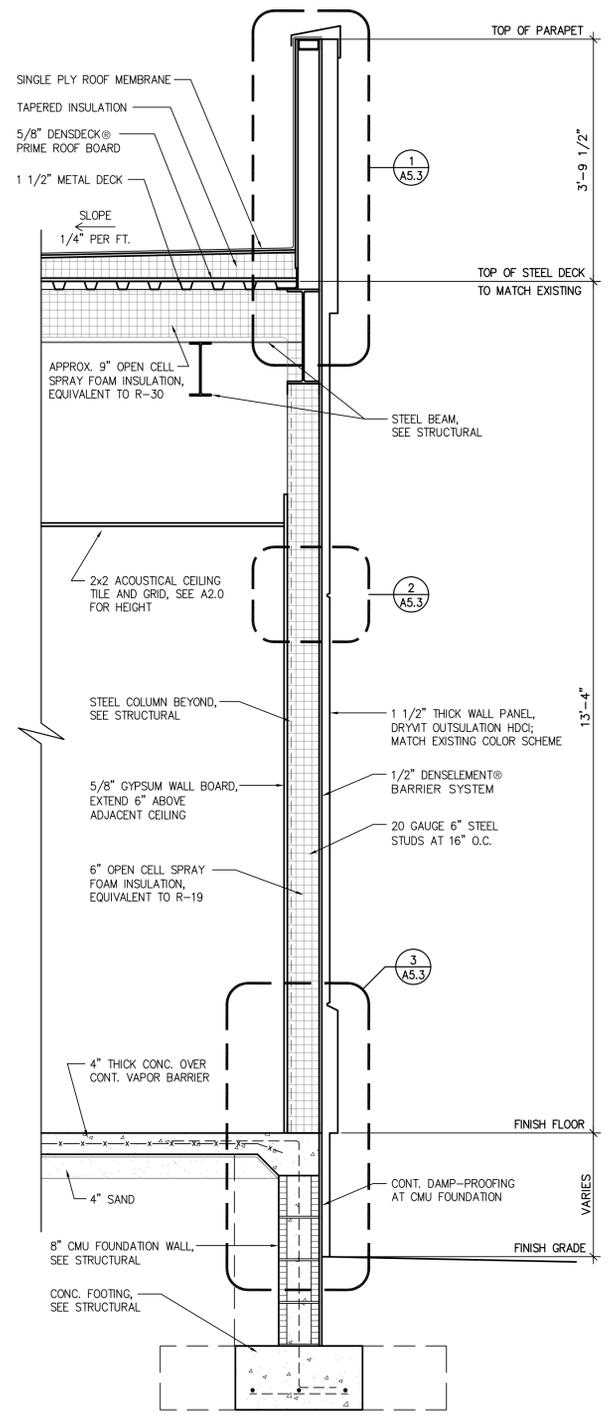
A5.1



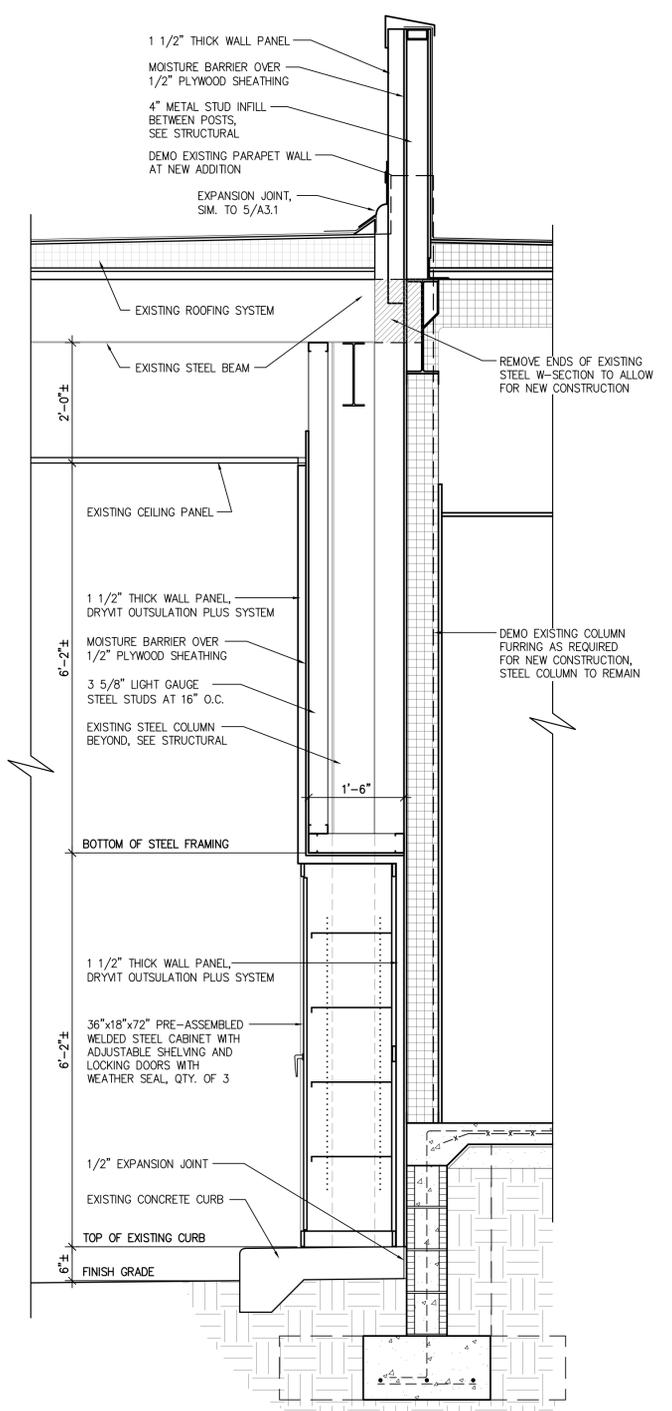


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EMANUEL MEDICAL CENTER
SWAINSBORO, GEORGIA**

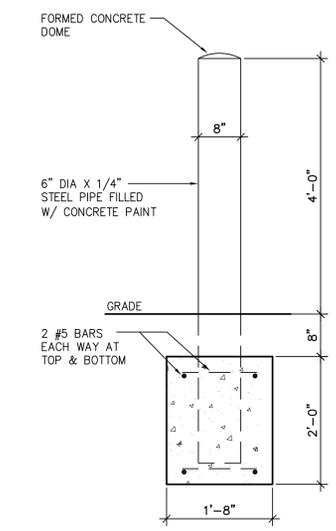
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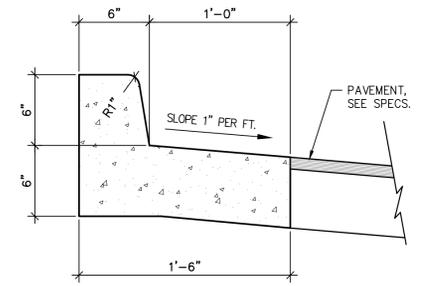
1 TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"



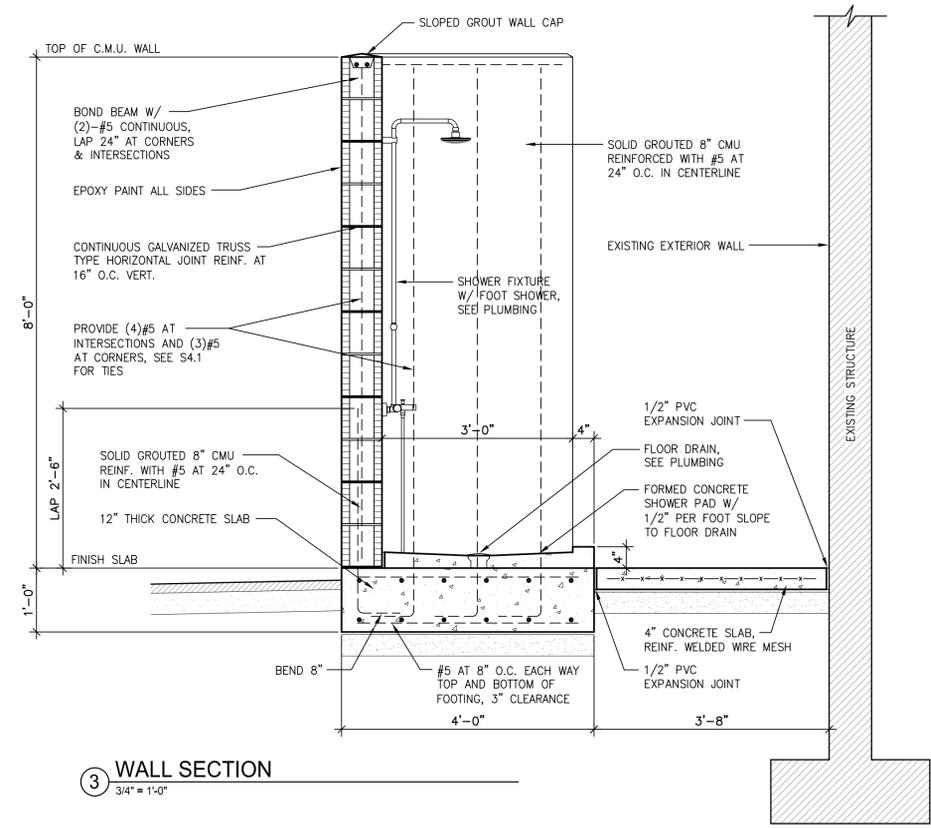
2 WALL SECTION
SCALE: 3/4" = 1'-0"



4 TYP. BOLLARD DETAIL
3/4" = 1'-0"



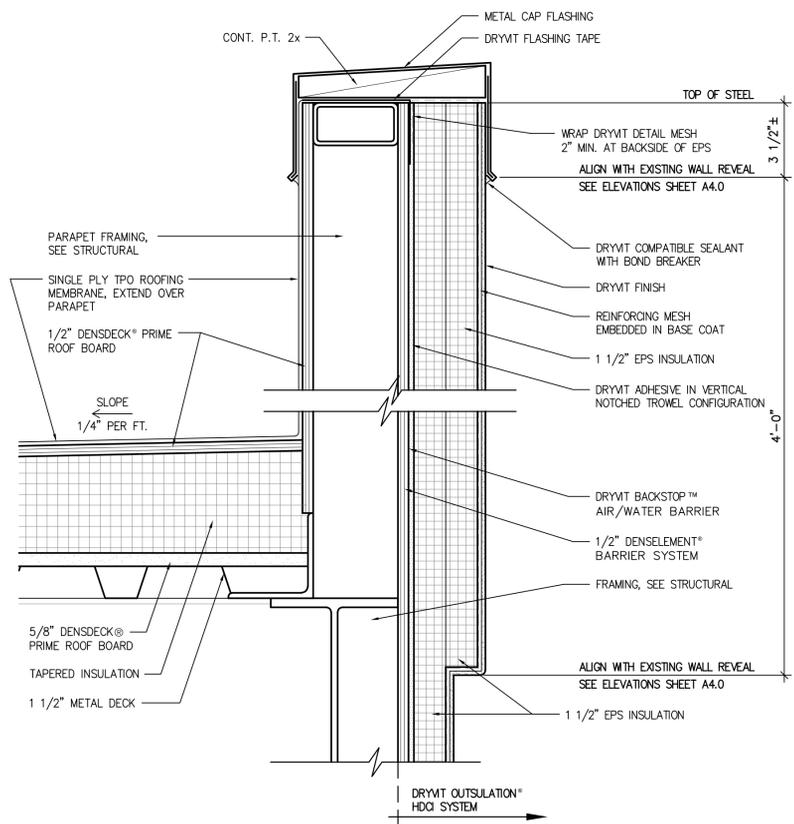
5 CURB & GUTTER DETAIL
1 1/2" = 1'-0"



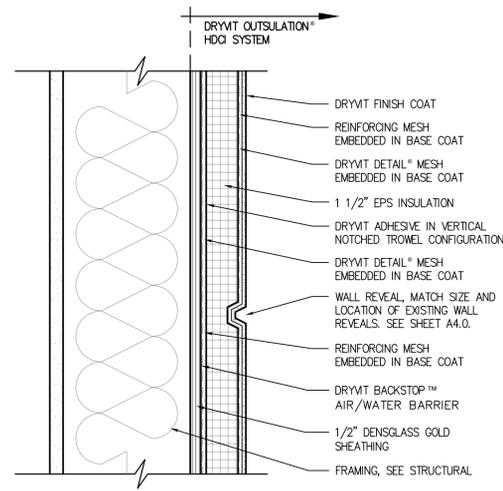
3 WALL SECTION
3/4" = 1'-0"



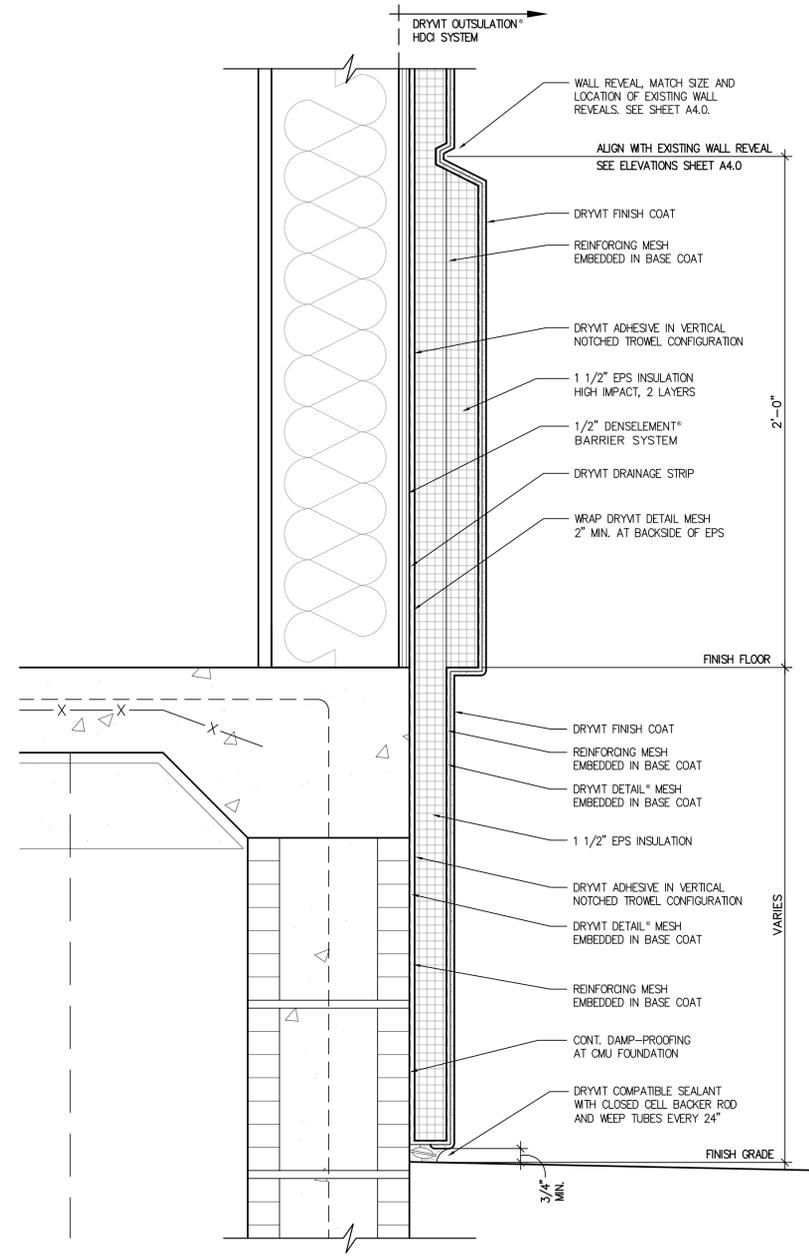
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SWAINSBORO, GEORGIA**



1 TYP. PARAPET DETAIL
SCALE: 3" = 1'-0"



2 TYP. WALL REVEAL DETAIL
SCALE: 3" = 1'-0"

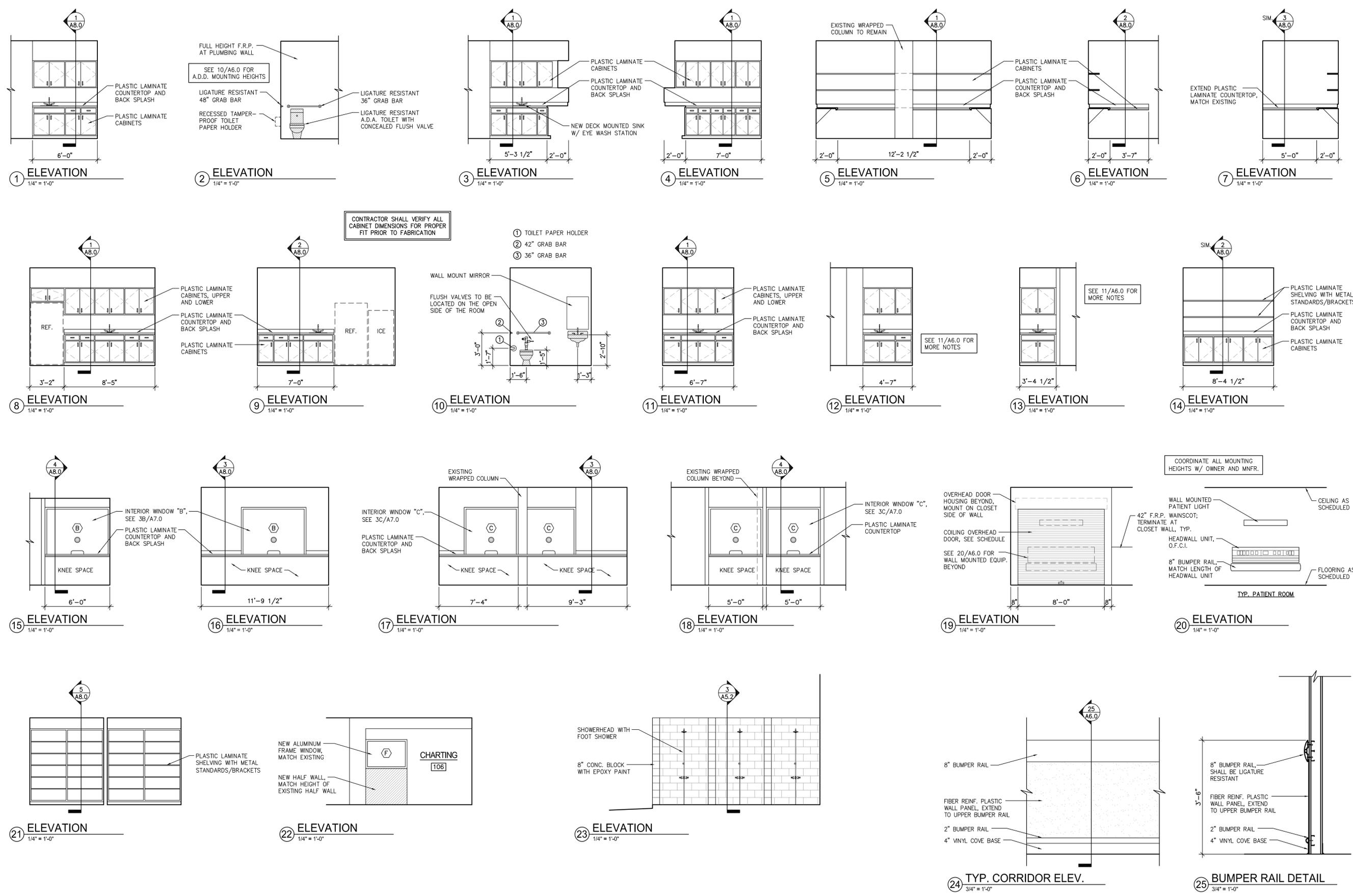


3 ENLARGED DETAIL
SCALE: 1 1/2" = 1'-0"

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BID SET

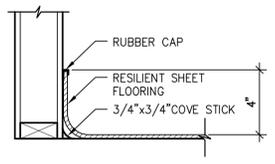
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SCHEDULE OF REVISIONS

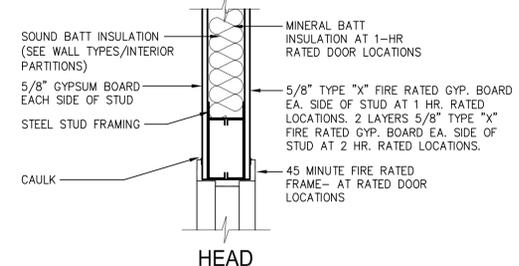
#	DATE

INTERIOR ELEVATIONS

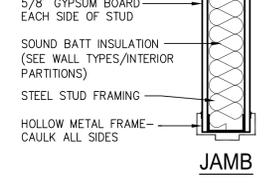
A6.0



1 TYP. BASE DETAIL
1 1/2" = 1'-0"

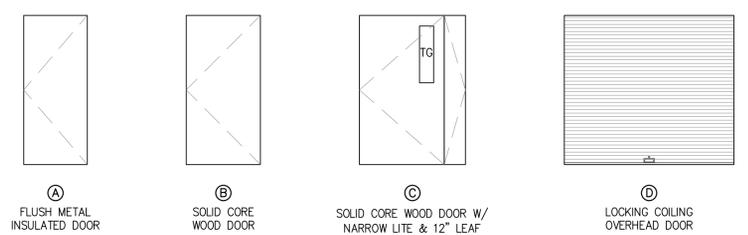


2 TYP. BASE DETAIL
1 1/2" = 1'-0"

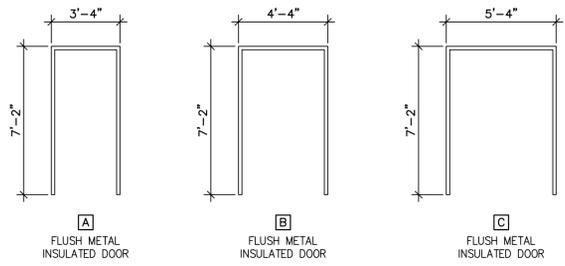


3 TYP. BASE DETAIL
1 1/2" = 1'-0"

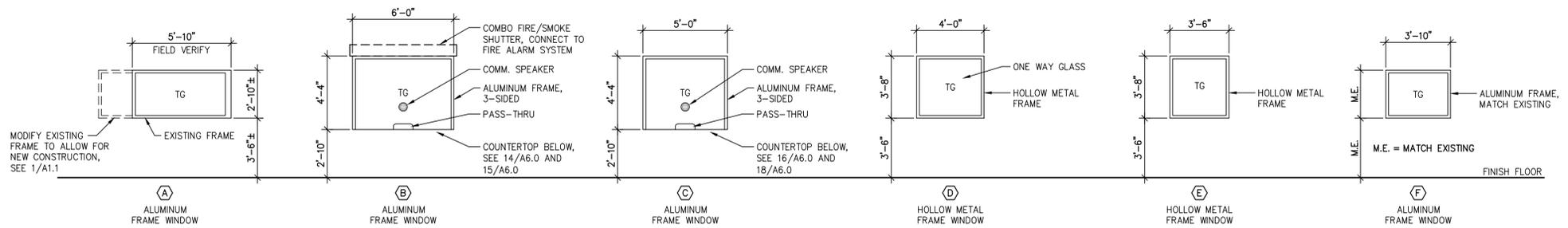
NOTE:
SEE DOOR SCHEDULE FOR
DOOR SIZE & HARDWARE.



1 DOOR FRAME ELEV.
1/4" = 1'-0"



2 DOOR ELEVATIONS
1/4" = 1'-0"



3 INTERIOR WINDOW ELEVATIONS
1/4" = 1'-0"

ROOM FINISH SCHEDULE

ROOM NO.	SPACE NAME	FLOOR	BASE	WALLS (BASED ON PLAN NORTH)				CEILING	CEILING HEIGHT	COMMENTS
				NORTH	EAST	SOUTH	WEST			
100	AMBULANCE BAY	CONC.	-	-	-	-	-	-		
101	MAJOR TREATMENT	SVF	SVC	GWB-P	GWB-P	GWB-P	GWB-P	ACT	9'-6"	BUMPER RAIL AT HEADWALL, SEE 20/A6.0
102	AIRBORNE INFECTION #1	SVF	SVC	GWB-P	GWB-P	GWB-P	GWB-P	ACT	9'-0"	A.C.T. CEILING TO BE SEALED; BUMPER RAIL AT HEADWALL, SEE 20/A6.0
103	CORRIDOR	SVF	SVC	FRP/GWB-P	FRP/GWB-P	FRP/GWB-P	FRP/GWB-P	ACT	8'-0"	FIBER REINFORCED PLASTIC WAINSCOT (42" A.F.F.) W/ LIGATURE RESISTANT BUMPER RAILS & CORNER GUARDS
104	AIRBORNE INFECTION #2	SVF	SVC	ETR-P	ETR-P	GWB-P	ETR-P	ACT	9'-6"	A.C.T. CEILING TO BE SEALED; BUMPER RAIL AT HEADWALL, SEE 20/A6.0
105	EXISTING AIRBORNE INFECTION	SVF	SVC	ETR-P	ETR-P	GWB-P	ETR-P	ETR	-	BUMPER RAIL AT HEADWALL, SEE 20/A6.0
106	CHARTING	SVF	SVC	ETR-P	ETR-P	GWB-P	ETR-P	ACT	9'-0"	
107	MEDS	SVF	SVC	ETR-P	ETR-P	GWB-P	ETR-P	ACT	9'-0"	
108	WORK STATIONS	SVF	SVC	GWB-P	ETR-P	ETR-P	ETR-P	ACT	9'-0"	
109	BREAK ROOM	SVF	SVC	ETR-P	ETR-P	GWB-P	ETR-P	ACT	9'-0"	
110	NOURISH	SVF	SVC	GWB-P	ETR-P	ETR-P	ETR-P	ACT	9'-0"	
111	STAFF TOILET	CT	CT	GWB-P/CT	GWB-P/CT	GWB-P/CT	GWB-P/CT	ACT	9'-0"	CERAMIC TILE WAINSCOT (54" A.F.F.) W/ FULL HEIGHT CERAMIC TILE WET WALL
112	CORRIDOR	SVF	SVC	ETR-P	GWB-P	GWB-P	GWB-P	ACT	8'-0"	
113	FAST TRACK	SVF	SVC	GWB-P	GWB-P	GWB-P	ETR-P	ACT	9'-0"	
114	TRIAGE	SVF	SVC	GWB-P	GWB-P	GWB-P	GWB-P	ACT	9'-0"	
115	CORRIDOR	SVF	SVC	ETR-P	ETR-P	GWB-P	GWB-P	ACT	8'-0"	
116	REGISTRATION	CPT	RUBBER	GWB-P	GWB-P	GWB-P	ETR-P	ACT	9'-0"	
117	COPY	CPT	RUBBER	ETR-P	ETR-P	GWB-P	GWB-P	ACT	9'-0"	
118	WAITING ROOM	LVP	RUBBER	GWB-P	ETR-P	ETR-P	GWB-P	ACT	9'-0"	CHAIR RAIL WOOD MOLDING, TO MATCH EXISTING, AT ALL NEW WALLS; REPLACE CEILING TILE
119	CORRIDOR	LVP	RUBBER	GWB-P	ETR-P	ETR-P	ETR-P	ACT	9'-0"	CHAIR RAIL WOOD MOLDING, TO MATCH EXISTING, AT ALL NEW WALLS; REPLACE CEILING TILE
120	CORRIDOR	SVF	SVC	FRP/ETR-P	FRP/ETR-P	FRP/ETR-P	FRP/ETR-P	ACT	8'-0"	FIBER REINFORCED PLASTIC WAINSCOT (42" A.F.F.) W/ LIGATURE RESISTANT BUMPER RAILS & CORNER GUARDS
121	CLOSETS	SVF	SVC	GWB-P	ETR-P	GWB-P	GWB-P	GCB-P	8'-0"	
122	DECONTAMINATION SHOWERS	CONC.	-	CMU-P	CMU-P	CMU-P	CMU-P	-	-	PAINT CMU WALLS WITH EPOXY PAINT
123	MENTAL HEALTH #1	SVF	SVC	FRP/ETR-P	FRP/ETR-P	FRP/ETR-P	FRP/ETR-P	GCB-P	9'-0"	FIBER REINFORCED PLASTIC WAINSCOT (42" A.F.F.), PICK RESISTANT SEALANT AT BASE; BUMPER RAIL AT HEADWALL
124	MENTAL HEALTH #2	SVF	SVC	FRP/ETR-P	FRP/ETR-P	FRP/ETR-P	FRP/ETR-P	GCB-P	9'-0"	FIBER REINFORCED PLASTIC WAINSCOT (42" A.F.F.), PICK RESISTANT SEALANT AT BASE; BUMPER RAIL AT HEADWALL
125	EXISTING EXAM/TREATMENT #7	SVF	SVC	ETR-P	ETR-P	ETR-P	ETR-P	ETR	-	
126	EXISTING TRAUMA	SVF	SVC	ETR-P	ETR-P	ETR-P	ETR-P	ETR	-	
127	EXISTING CARDIAC TREATMENT	SVF	SVC	ETR-P	ETR-P	ETR-P	ETR-P	ETR	-	
128	EXISTING STRETCHER ENTRY	SVF	SVC	ETR-P	ETR-P	ETR-P	ETR-P	ETR	-	
129	EXISTING ENTRY	LVP	RUBBER	ETR-P	ETR-P	ETR-P	ETR-P	ETR	-	
130	E.D. MANAGER	SVF	SVC	ETR-P	ETR-P	ETR-P	ETR-P	ETR	-	

FINISH ABBREVIATIONS

ACT - ACOUSTICAL CEILING TILE	FRP - FIBER REINFORCED PLASTIC	GWB - GYPSUM WALL BOARD	SVF - SHEET VINYL FLOORING
CPT - CARPET TILE	ETR - EXISTING TO REMAIN	LVP - LUXURY VINYL PLANK	SVC - 4" SHEET VINYL COVE, SEE DETAIL 4/A7.0
CT - CERAMIC TILE	GCB - GYPSUM CEILING BOARD W/ SMOOTH SKIM COAT	P - PAINT	
CMU - 8" CONCRETE MASONRY UNIT			

DOOR SCHEDULE

DOOR NO.	DOOR SIZE	DOOR TYPE	FRAME TYPE	RATED	THRESHOLD	HARDWARE
101	4'-0" x 7'-0" x 1-3/4" w/ 12" LEAF	SCW/NL	HM	-	-	CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
102	4'-0" x 7'-0" x 1-3/4" w/ 12" LEAF	SCW/NL	HM	-	-	CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
103	4'-0" x 7'-0" x 1-3/4" w/ 12" LEAF	SCW/NL	HM	-	-	CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
104	4'-0" x 7'-0" x 1-3/4"	SCW	HM	-	-	CLOSER, DBL. ACTION CONT. HINGE, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS (ALL HARDWARE SHALL BE LIGATURE RESISTANT)
105	4'-0" x 7'-0" x 1-3/4"	SCW	HM	-	-	CLOSER, DBL. ACTION CONT. HINGE, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS (ALL HARDWARE SHALL BE LIGATURE RESISTANT)
106	EXISTING DOOR TO REMAIN	ETR	ETR	-	-	ADD BADGE CARD READER TO EXISTING DOOR
107	3'-0" x 7'-0" x 1-3/4"	SCW	HM	-	-	PUSH-PULL HARDWARE, CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
108	3'-0" x 7'-0" x 1-3/4"	SCW	HM	-	-	STORAGE LOCKSET W/ BADGE CARD READER, CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
109	3'-0" x 7'-0" x 1-3/4"	SCW	HM	-	-	CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
110	EXISTING DOOR TO REMAIN	ETR	ETR	-	-	ADD BADGE CARD READER TO EXISTING DOOR, KEYPAD ENTRY CONTROL TO REMAIN
111	DBL. 2'-6" x 7'-0" x 1-3/4"	SCW	HM	-	-	STORAGE LOCKSET & SILENCERS
112	DBL. 2'-6" x 7'-0" x 1-3/4"	SCW	HM	-	-	STORAGE LOCKSET & SILENCERS
113	3'-0" x 7'-0" x 1-3/4"	SCW	HM	45 MIN.	RTS	PASSAGE H.W. SET, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
114	3'-0" x 7'-0" x 1-3/4"	SCW	HM	-	-	PASSAGE H.W. SET, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
115	3'-0" x 7'-0" x 1-3/4"	SCW	HM	45 MIN.	RTS	PANIC H.W. SET, ELECTRIC STRIKE, CLOSER, KICK PLATES, SOUND SEAL, SILENCERS & BADGE CARD READER
116	4'-0" x 7'-0" x 1-3/4"	SCW	HM	45 MIN.	-	PASSAGE H.W. SET, CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
117	3'-0" x 7'-0" x 1-3/4"	SCW	HM	-	MARBLE	PRIVACY LOCKSET, CLOSER, KICK PLATES, SOUND SEAL, SWEEP, SILENCERS & COAT HOOK
118	3'-0" x 7'-0" x 1-3/4"	SCW	HM	-	-	PASSAGE H.W. SET, CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
119	3'-0" x 7'-0" x 1-3/4"	SCW	HM	-	-	PASSAGE H.W. SET, CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
120	3'-0" x 7'-0" x 1-3/4"	SCW	HM	-	RTS	PASSAGE H.W. SET, ELECTRIC STRIKE, CLOSER, KICK PLATES, SOUND SEAL, SWEEP, SILENCERS & BADGE CARD READER
121	3'-0" x 7'-0" x 1-3/4"	SCW	HM	-	-	PASSAGE H.W. SET, CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS
122	3'-0" x 7'-0" x 1-3/4"	FM	HM	-	EXT. H.C.	PANIC H.W., BADGE CARD READER, CLOSER, KICK PLATES, SOUND SEAL, SWEEP AND SILENCERS
123	8'-0" x 7'-0"	OH	-	-	-	LOCKABLE COILING OVERHEAD DOOR, DOOR HOUSING MOUNTED ON CLOSET SIDE OF OPENING FOR CONCEALMENT
124	8'-0" x 7'-0"	OH	-	-	-	LOCKABLE COILING OVERHEAD DOOR, DOOR HOUSING MOUNTED ON CLOSET SIDE OF OPENING FOR CONCEALMENT
125	3'-0" x 7'-0" x 1-3/4"	SCW	HM	-	-	PASSAGE H.W. SET, CLOSER, KICK PLATES, SOUND SEAL, SWEEP, & SILENCERS

ABBREVIATIONS:

ASF	- ALUMINUM STOREFRONT
ETR	- EXISTING TO REMAIN
EXT. H.C.	- EXTERIOR HANDICAP THRESHOLD
FM	- FLUSH METAL (INSULATED)
HCW	- HOLLOW CORE WOOD, 6 PANEL DOOR (TO MATCH EXISTING)
HM	- HOLLOW METAL
M/NL	- METAL W/ NARROW LITE (INSULATED)
RS	- REDUCER STRIP
SCW	- SOLID CORE WOOD
SCW/FL	- SOLID CORE WOOD W/ FULL LITE
SCW/HL	- SOLID CORE WOOD W/ HALF LITE
SCW/NL	- SOLID CORE WOOD W/ NARROW LITE
WD	- WOOD

NOTES:

- PROVIDE CLOSER ON ALL RATED DOORS.
- PROVIDE U.L. RATED SEAL, GASKETS, ASTRAGALS AND THRESHOLDS ON ALL DOORS IN FIRE RATED WALLS.
- PROVIDE WEATHERSTRIPPING AND CLOSERS AT ALL EXTERIOR DOORS.
- ALL THRESHOLDS OF REQUIRED EXIT EGRESS DOORS SHALL MEET ADA REQUIREMENTS.
- ALL HARDWARE ON RATED DOORS SHALL BE FIRE RATED.
- ALL DOOR WIDTHS SHOWN IN THE SCHEDULE ARE ROUGH OPENING AND EQUAL:
 - = DOOR WIDTH + 3.5" IN WOOD STUD
 - = DOOR WIDTH + 4" IN MASONRY
- ALL RATED DOORS SHALL HAVE MATCHING FIRE RESISTANCE RATING ON FRAMES AND HARDWARE.
- ALL RATED FRAMES SHALL COMPLY WITH NFPA 80.
- CLEARANCE BETWEEN RATED DOORS AND RATED FRAMES SHALL NOT EXTEND 1/16".
- CLEARANCE BETWEEN THE BOTTOM OF RATED DOORS AND TOP OF THE FLOOR COVERING SHALL NOT EXTEND 1/2" (NFPA - 2-5.5 (C)).
- THE CLEARANCE BETWEEN THE BOTTOM OF RATED DOORS AND THE FLOOR SLAB SHALL NOT EXTEND 3/4" (NFPA 2-5.5 (B) & (C) ALSO MEET NFPA 80.
- NO LOCKS ON SWINGING DOORS.
- NEW DOOR HARDWARE SHALL BE LIGHT DUTY COMMERCIAL GRADE; WITH ALL DOORS RECEIVING HINGES, PLATES, STOPS AND CORES.

GLAZING SCHEDULE

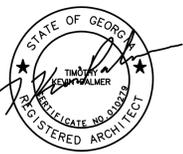
SYM	THICKNESS	DESCRIPTION
TG	5/8"	CLEAR TEMPERED GLASS
TIG	1"	CLEAR TEMPERED INSULATING GLASS
IG	1"	CLEAR INSULATING GLASS
CG	5/8"	CLEAR GLASS
FG	5/8"	FROSTED GLASS
F/TG	5/8"	FROSTED TEMPERED GLASS

- "TG" GLAZING SHALL BE USED IN ALL OPENINGS THAT ARE LOCATED WITHIN 24" OF A DOOR OR FLOOR.
- ALL EXTERIOR GLASS SHALL BE LOW E WITH 60% TINT.



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EMERGENCY DEPT. RENOVATION
EMANUEL MEDICAL CENTER
SWAINSBORO, GEORGIA

BID SET

PROJECT NUMBER: 2235
PROJECT DATE: 2/14/2024
DRAWN BY: AMG
APPROVED BY: TKP

SCHEDULE OF REVISIONS

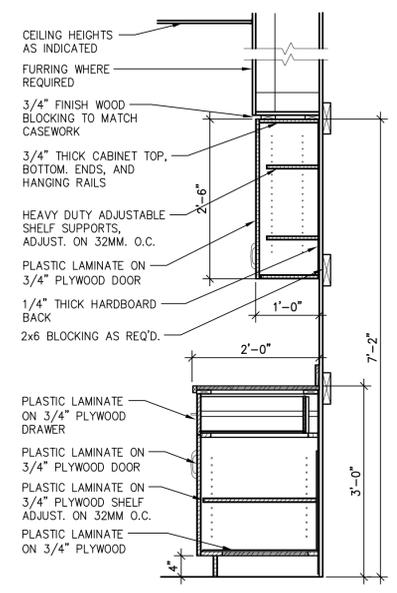
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FINISH SCHEDULE AND DOOR SCHEDULE

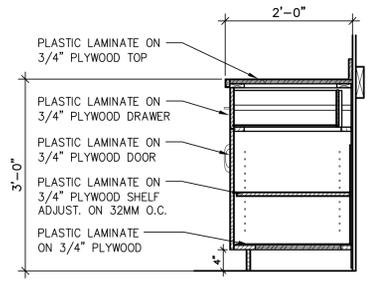
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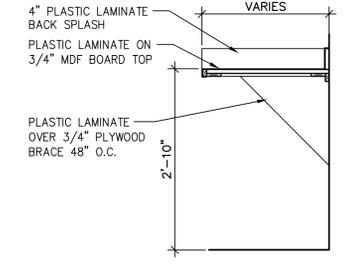
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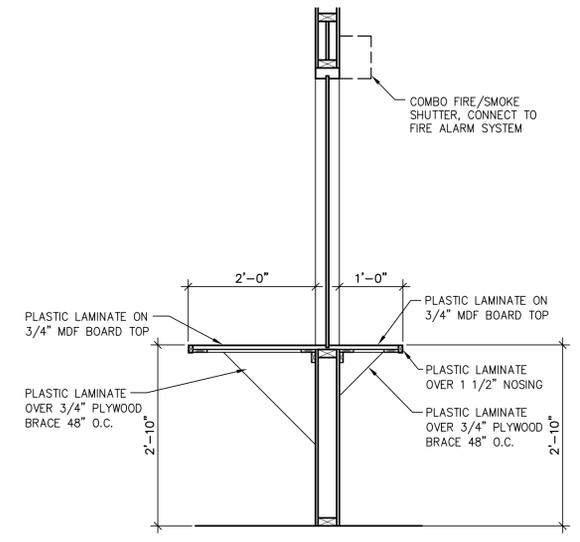
1 MILLWORK DETAIL
3/4" = 1'-0"



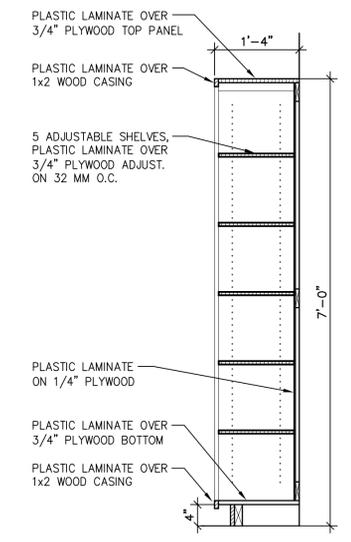
2 MILLWORK DETAIL
3/4" = 1'-0"



3 MILLWORK DETAIL
3/4" = 1'-0"



4 MILLWORK DETAIL
3/4" = 1'-0"



5 MILLWORK DETAIL
3/4" = 1'-0"



**EMERGENCY DEPT. RENOVATION
EMANUEL MEDICAL CENTER
SWAINSBORO, GEORGIA**

BID SET	
PROJECT NUMBER:	2235
PROJECT DATE:	2/14/2024
DRAWN BY:	AMG
APPROVED BY:	TKP
SCHEDULE OF REVISIONS	
#	DATE

MILLWORK
DETAILS

A8.0

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

STRUCTURAL NOTES

BASIS OF DESIGN:

- A. GRAVITY LOADS** UNIFORM LOADS
 1. ROOF DEAD LOADS: 25 PSF
 2. ROOF LIVE LOADS: 20 PSF
- B. SNOW LOADS** (REFERENCE: ASCE 7-16)
 GROUND SNOW LOAD, $P_g = 5$ PSF (FIGURE 7.2-1)
 $C_e = 0.80$ (TERRAIN CATEGORY C) (TABLE 7.3-1)
 $I = 1.1$ (BUILDING CAT. IV) (TABLE 7-4)
- C. WIND LOADS** (REFERENCE: ASCE 7-16)
 BASIC WIND SPEED (3 SECOND GUST), $V = 120$ MPH (FIGURE 26.5-1b)
 NOMINAL WIND SPEED, $V_{nd} = 100$ MPH
 RISK CATEGORY = IV (TABLE 1.5-1)
 EXPOSURE CATEGORY = C (SECTION 26.7)
 INTERNAL PRESSURE COEFFICIENTS: +0.18, -0.18 (TABLE 26.13-1)
 (ENCLOSED BUILDING TYPE)
- THIS PROJECT IS NOT LOCATED IN A WIND-BORNE DEBRIS REGION.
- D. SEISMIC LOADS** (REFERENCE: ASCE 7-16)
 RISK CATEGORY IV (SECTION 1.5-1)
 0.2 SEC SPECTRAL RESPONSE ACCELERATION: $S_s = 0.203$
 1.0 SEC SPECTRAL RESPONSE ACCELERATION: $S_1 = 0.085$
 SPECTRAL RESPONSE ACCELERATION: $S_{ds} = 0.217$
 SPECTRAL RESPONSE ACCELERATION: $S_{d1} = 0.127$
 SITE CLASSIFICATION = C (SECTION 11.4)
 BASIC SEISMIC-FORCE-RESISTING SYSTEM
 LONGITUDINAL: RIGID FRAMES (SECTION 11.6)
 TRANSVERSE: RIGID FRAMES (SECTION 11.6)
 SEISMIC DESIGN CATEGORY = C (TABLE 1.5-2)
 SEISMIC IMPORTANCE FACTOR = 1.50 (TABLE 1.5-2)
 DESIGN BASE SHEAR, $V = 0.62$ KIPS (SECTION 12.8.1.1)
 SEISMIC RESPONSE COEFFICIENT, $C_s = 0.0162$ (SECTION 12.8.1.1)
 RESPONSE MODIFICATION COEFFICIENT, $R = 3.50$ (TABLE 12.2.1)
 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (SECTION 12.8)

GENERAL:

- DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS SHOWN ON PLAN OR OBTAIN ADDITIONAL INFORMATION.
- CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT SHOWN HEREIN.
- WHERE DETAIL OR SECTION IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE OR SIMILAR LOCATIONS.
- CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF AND SHALL NOTIFY THE ARCHITECT IN WRITING PRIOR TO SUBMITTING BIDS.
- REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- COORDINATE FLOOR SLAB LAYOUT WITH ARCHITECTURAL DRAWINGS FOR EXACT LIMITS AND IMPRESSIONS FOR AREAS TO RECEIVE ARCHITECTURAL FINISHES. COORDINATE FLOOR JOINTS AT DOORS WITH ARCHITECTURAL DOOR DETAILS. LIMITS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF ALL EXTERIOR WALKS, CANOPIES, RAMPS, RAMP WALLS, AND ENTRANCE SLABS NOT DETAILED HEREIN.
- NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DRAWINGS.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND CONSTRUCTION ACTIVITIES.
- THE USE OF REPRODUCTIONS OF CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER, IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREIN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO THE WORK'S SAFETY PRECAUTIONS AND REGULATIONS.
- CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF ALL CONSTRUCTION SHOWN HEREIN. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY, ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSEWORK, BRACING, ETC. CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
- THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS DIMENSIONS OBTAINED IN FIELD AND USED AS A BASIS OF DETAILING SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.

EXISTING CONSTRUCTION:

- DIMENSIONS INDICATED RELATIVE TO EXISTING STRUCTURES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES.
- BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING STRUCTURE, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
- BEFORE PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION SURVEY OF THE EXISTING BUILDING AT LOCATIONS WHERE BUILDING ADDITIONS ARE TO BE CONSTRUCTED, AT INTERIOR OF BUILDING WITHIN 10 FEET OF ALL REMODELING WHICH AFFECTS EXISTING STRUCTURAL SYSTEMS, AND AT EXISTING EXTERIOR WALLS WHERE THEY ARE WITHIN 10 FEET OF A BUILDING ADDITION. CONTRACTOR SHALL FURNISH A REPORT TO THE ARCHITECT WHICH INCLUDES PHOTOGRAPHS WHICH DOCUMENT EXISTING BUILDING CRACKS OR OTHER COSMETIC FLAWS IN THE BUILDING. CONTRACTOR SHALL PROVIDE CRACK CONTROL MONITORS OR OTHER MONITORING DEVICES AS MAY BE WARRANTED BASED ON THE CONDITIONS OBSERVED.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL FIELD MEASUREMENTS NECESSARY FOR THE COMPLETE DETAILING, FABRICATION, AND ERECTION OF ALL STRUCTURAL MEMBERS. ANY DISCREPANCY NOTED BETWEEN ASSUMPTIONS MADE ON THE DRAWINGS OF EXISTING FEATURES AND THE ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER. ALL DIMENSIONS OBTAINED IN FIELD AND USED AS A BASIS OF DETAILING SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.
- WHERE WELDING TO AND WITHIN THE EXISTING STRUCTURE IS REQUIRED, CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID FIRE HAZARDS AND STRUCTURAL DOWNGRADE DURING WELDING AS NECESSARY AND IN ACCORDANCE WITH LOCAL BUILDING CODES AND OSHA REGULATIONS. SAFETY PRECAUTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE REMOVAL AND/OR PROTECTION OF EXISTING COMBUSTIBLE MATERIALS. THE CONTRACTOR SHALL NOT LEAVE THE SITE EACH DAY UNTIL SATISFIED THAT NO FIRE HAZARDS EXIST.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING NECESSARY TO SAFEGUARD THE EXISTING STRUCTURE. ANY SHORING SHOWN HEREIN IS A PARTIAL AND SCHEMATIC REPRESENTATION OF THAT REQUIRED. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN FOR SHORING, BRACING AND PROTECTION OF THE EXISTING CONSTRUCTION. THIS PLAN SHALL INCLUDE A CONSTRUCTION SEQUENCE AND SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BEGINNING THE WORK.
- INFORMATION USED IN PREPARING THESE DRAWINGS WAS TAKEN FROM DRAWINGS PREPARED BY THE FIRM OF DATED

FOUNDATIONS:

- FOUNDATION DESIGN IS BASED ON A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF PSF BASED ON THE RECOMMENDATIONS INCLUDED IN GEOTECHNICAL REPORT PREPARED BY WHITAKER LABORATORY, INC., REPORT NO. DATED . THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED OR DESIGNED.
- ALLOWABLE BEARING PRESSURE SHALL BE VERIFIED BY FIELD TESTING IN ACCORDANCE WITH REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN THE ABSENCE OF SPECIFICATION REQUIREMENTS, A DYNAMIC CONE PENETROMETER TEST (ASTM STP-399) SHALL BE PROVIDED AT EACH COLUMN FOOTING EXCAVATION AND MAXIMUM 75' O.C. IN WALL FOOTINGS AND THICKENED SLABS TO VERIFY AVAILABILITY OF THE DESIGN PRESSURE INDICATED FOR A MINIMUM DEPTH OF FOUR FEET BELOW BOTTOM OF FOOTING EXCAVATIONS.
- ALL FOOTINGS AND SLABS SHALL BEAR ON SUBGRADE COMPACTED TO A MINIMUM 95% ASTM D-1557 UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN PROJECT SPECIFICATIONS.
- NO FOOTINGS SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW BOTTOM OF FOOTING AND REPLACE WITH STRUCTURAL FILL IN ACCORDANCE WITH PROJECT SPECIFICATION REQUIREMENTS.
- ALL WATER SOFTENED SOILS IN FOUNDATION EXCAVATIONS SHALL BE REMOVED PRIOR TO POURING CONCRETE. FILL OVER-EXCAVATED LIMITS WITH COMPACTED STRUCTURAL FILL OR ADDITIONAL CONCRETE.
- ALL BOTTOM REINFORCING IN FOOTINGS AND THICKENED SLABS SHALL BE SUPPORTED WITH WHOLE CONCRETE BRICKS OR PREFABRICATED ALL PLASTIC CHAIR SUPPORT AT MAXIMUM 48" O.C. CHAIR SUPPORTS SHALL BE POSITIONED TO MAINTAIN NO LESS THAN 3" CLEAR TO BOTTOM OF LOWEST REINFORCING BAR.
- ALL FOOTING, PIER AND OTHER FOUNDATION TYPE REINFORCING SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.
- WHERE PLUMBING OCCUR BELOW TOP OF WALL FOOTINGS TO A DEPTH OF 2 FT, BELOW BOTTOM OF WALL FOOTINGS, STEP WALL FOOTING DOWN TO PROVIDE CLEARANCES INDICATED ON TYPICAL DETAIL HEREIN UNLESS OTHERWISE SPECIFIED. COORDINATE LOCATIONS, SIZES, AND INVERTS WITH PLUMBING DRAWINGS.
- PROVIDE 1/4" PREMOULDED EXPANSION JOINT FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT VERTICAL WALL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED. WHERE SLABS ARE EXPOSED TO VIEW, OMIT PEJ AND PROVIDE 30# BUILDING FELT BETWEEN VERTICAL SURFACES AND CONCRETE SLABS.
- WHERE VERTICAL STEPS IN WALL FOOTINGS SHOWN ON FOUNDATION PLAN, THEY SHALL BE A MAXIMUM 2'-0" HIGH SPACED NO CLOSER THAN 4'-0" O.C.
- CONSTRUCTION JOINTS IN WALL FOOTINGS SHALL BE FORMED VERTICALLY WITH MINIMUM 2'-0" LAP HORIZONTAL REINFORCING.
- WHERE FINISHED GRADES DIFFER ON OPPOSITE SIDES OF FOUNDATION WALLS, PROVIDE TEMPORARY BRACING AT TOP OF WALL TO PREVENT LATERAL MOVEMENT UNTIL ALL ADJACENT FILLING, COMPACTION, FLOOR SLABS, WALLS, AND FRAMING AT NEXT LEVEL IS COMPLETED.
- ALL SLAB ON GRADE WIRE MESH SHALL BE PROVIDED IN FLAT SHEETS (NO ROLLS) AND SUPPORTED BY PREFABRICATED PLASTIC CHAIRS SPACED AT MAXIMUM 48" ON CENTER EACH WAY. PROVIDE CHAIRS MAXIMUM 4" FROM SLAB EDGES AND METAL KEY JOINTS. NO CONCRETE BRICKS ARE PERMITTED WITHIN SLABS.

CONCRETE:

- UNLESS OTHERWISE SHOWN, THE CENTERLINES OF ALL PIERS AND COLUMN FOOTINGS SHALL BE LOCATED ON COLUMN CENTERLINES OVER.
- UNLESS SPECIFIED OTHERWISE, CONCRETE COVER OVER REINFORCEMENT SHALL CONFORM TO THE FOLLOWING:
 - ALL FOOTINGS AND OTHER CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 BAR AND SMALLER: 1 1/2"
 - #6 BAR AND LARGER: 2"
 - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 - SLABS, WALLS, JOISTS:
 - #14 BAR AND SMALLER: 3/4"
 - #14 AND #18 BARS: 1 1/2"
 - BEAM COLUMNS:
 - PRIMARY REINFORCEMENT, TIES, STRUTS, SPIRALS: 1 1/2"
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- PROVIDE DOWELS OF THE SAME SIZE AND NUMBER AS THE VERTICAL WALL AND COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
- REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED ON THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCING MARKED CONTINUOUS MAY BE SPLICED AT LOCATIONS DETERMINED BY THE CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- ALL CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR OTHER INSERTS REQUIRED TO BE ENCASED IN CONCRETE AND FOR EXACT LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS.
- CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
- DEFECTIVE AREAS IN CONCRETE WORK INCLUDING, BUT NOT LIMITED TO, HONEYCOMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.10" SHALL BE REPAIRED BY THE CONTRACTOR. THE EXTENT OF THE DEFECTIVE AREA SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.
- NO REINFORCING SHALL BE CUT IN FIELD. ADDITIONAL REINFORCING AND THAT QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENING AS DETAILLED.
- HOOKS IN REINFORCING ARE IN ADDITION TO LINKS SHOWN.
- UNLESS NOTED OTHERWISE, DETAILING AND FABRICATION OF REINFORCING STEEL SHALL FOLLOW ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES" (ACI 315).
- REINFORCING SHALL BE SUPPORTED IN FORMS AND SPACED WITH WIRE BAR SUPPORTS ACCORDING TO CRSI "PLACING REINFORCING BARS" UNLESS NOTED OTHERWISE.

STEEL FRAMING:

- ALL WIDE FLANGE STEEL SHAPES INCLUDING WT'S SHALL BE FABRICATED USING ASTM A992 GRADE 50 STRUCTURAL STEEL MATERIAL. ALL OTHER SHAPES, PLATES, BARS, ETC., SHALL BE ASTM A36 OR AS INDICATED IN SPECIFICATIONS.
- UNLESS DETAILED OTHERWISE ON STRUCTURAL OR ARCHITECTURAL DRAWINGS, ALL FLAT ROOF AND FLOOR DECK PERIMETERS SHALL BE SUPPORTED USING A CONTINUOUS L5X3X1/4 (SLV) WHERE DECK SPANS PERPENDICULAR TO PERIMETER AND CONTINUOUS L5X3X1/4 WHERE DECK SPANS PARALLEL TO PERIMETER.
- ALL ROOF CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER (MIN.) ASTM F3125-15 (120 KSI TENSILE STRENGTH, GRADE F1852) HIGH STRENGTH TWIST-OFF TYPE BOLTS UNLESS DETAILED OR APPROVED OTHERWISE BY ENGINEER.
- STEEL FRAMING, INCLUDING BOLTED AND WELDED CONNECTIONS, BRACING, AND ANCHORAGES SHALL BE COMPLETE AND PLUMB PRIOR TO PLACEMENT OF DECKS.
- TOP OF STEEL ELEVATIONS SHOWN ON FRAMING PLANS ARE MEASURED FROM FINISHED FIRST FLOOR UNLESS NOTED.
- ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS OF AISC 15TH EDITION.
- ALL FABRICATIONS SHALL COMPLY WITH "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITIONS, AS PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO REPRESENT ALL STEEL REQUIRED ON THIS PROJECT. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISCELLANEOUS STRUCTURAL STEEL FRAMING NOT SHOWN ON STRUCTURAL DRAWINGS INCLUDING MISCELLANEOUS ANGLE FRAMING, BRACING, ETC.
- ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED UNLESS OTHERWISE DIRECTED BY THE ARCHITECT. WHERE WELDING IS USED ON HOT-DIPPED GALVANIZED FRAMING MEMBERS, WELDS AND ADJACENT AREAS SHALL BE COATED WITH A COLD GALVANIZING COMPOUND. CONTRACTOR TO SUBMIT DATA SHEET OF MATERIAL TO BE USED FOR ARCHITECT'S REVIEW.
- DO NOT FIELD CUT ANY STRUCTURAL STEEL WITHOUT PRIOR REVIEW AND ACCEPTANCE OF THE ARCHITECT/ENGINEER.
- CONTRACTOR SHALL COORDINATE LOCATIONS, SIZE AND NUMBER OF ALL ROOF FRAMES FOR MECHANICAL ROOF AND FLOOR PENETRATIONS WITH MECHANICAL DRAWINGS AND EQUIPMENT FURNISHING. LOCATIONS AND SIZES OF FRAME OPENINGS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC ONLY.
- NO SHOP SPlice OR OTHER CONNECTION WILL BE PERMITTED UNLESS THAT SPlice OR CONNECTION IS SHOWN ON THE SHOP DRAWINGS AND REVIEWED BY THE ENGINEER.
- AFTER ALL FIELD WELDING IS COMPLETED, WELDS SHALL BE CLEANED OF ALL WELDING SPOILS AND RE-PRIMED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. PROOF OF CERTIFICATION FOR EACH WELDER PERFORMING FIELD WELDING SHALL BE AVAILABLE AT THE JOB SITE. ALL WELDERS SHALL HAVE BEEN CERTIFIED WITHIN THE PREVIOUS 12 MONTHS IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS, DETAILS, ETC., AND OTHER REQUIREMENTS FOR APPLICATION OF SPRAYED-ON FIREPROOFING MATERIAL. OMIT PRIMER PAINT ON ALL STEEL SURFACES SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING.
- ALL ANCHORS, THRU-BOLTS OR OTHER TREATED STUDS (INCLUDING WASHERS AND NUTS) USED TO CONNECT PRESSURE TREATED BLOCKING SHALL BE HOT-DIPPED GALVANIZED.

STEEL COLUMNS:

- STEEL COLUMN BASES ARE DESIGNED AS "UN-RESTRAINED"; THEREFORE COLUMNS MUST BE KEPT BRACED UNTIL ALL HORIZONTAL FRAMING HAS BEEN INSTALLED.
- COLUMN ANCHOR RODS SHALL BE INSTALLED AND TIED IN PLACE PRIOR TO POURING CONCRETE. ANCHOR RODS SHALL NOT BE REPAIRED, REPLACED, OR MODIFIED BY THE CONTRACTOR WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

ROOF DECKS:

- 1.5" X 22 GA. GALVANIZED STEEL DECK EQUAL TO STEEL DECK INSTITUTE TYPE WR22, MINIMUM 3 CONTINUOUS SPANS. SECURE TO SUPPORTS PER DETAIL SHOWN HEREIN.

CONCRETE MASONRY:

- REINFORCED WALLS, PIERS, AND PILASTERS, SHALL BE FILLED IN MAXIMUM 8'-0" LIFTS. FILL SHALL BE MECHANICALLY MIXED (ASTM C476) GROUT WITH MAXIMUM 1/2" DIA. AGGREGATE AND SHALL DEVELOP NOT LESS THAN 2500 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY SHALL BE $f'_m = 2000$ PSI.
- ALL REINFORCING SHALL BE HELD IN SPECIFIED LOCATIONS SHOWN WITH PRE-MANUFACTURED GALVANIZED (MIN. 9 GA.) REBAR POSITIONERS VERTICALLY SPACED AT MAXIMUM 32" O.C. DO NOT LOCATE IN JOINTS SCHEDULED TO RECEIVE HORIZONTAL JOINT REINFORCING.
- MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 402-16).
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A-615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE HOOKED OR BENT. ALL REINFORCING DOWELS FROM FOUNDATIONS SHALL MATCH VERTICAL REINFORCING. SIZE AND SPACING INDICATED FOR CONSTRUCTION OF WALL OVER. ALL DOWELS SHALL HAVE STANDARD 90 HOOKS (MINIMUM 12 BAR DIAMETERS). #2 SMOOTH TIES SHOWN IN THE REINFORCED MASONRY PIER DETAILS SHALL BE 1/4" DIAMETER PLAIN STEEL WIRE (WIRE SIZE NUMBER) PER ASTM A 1064 WITH YIELD STRENGTH OF 60 KSI. UNLESS INDICATED OTHERWISE IN SPECIFICATIONS OR ON ARCHITECTURAL DRAWINGS, PROVIDE 9 GA. GALV. HORIZONTAL TRUSS TYPE JOINT REINFORCING AT 16" O.C. IN ALL WALLS. DISCONTINUE JOINT REINFORCING AT CONTROL JOINTS.

SPECIAL STRUCTURAL INSPECTIONS:

- SPECIAL INSPECTIONS:**
 - SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED ON THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC 2018 BUILDING CODE AND ALL GEORGIA STATE AMENDMENTS.
 - SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN AGENCY SELECTED BY THE OWNER WHO MEETS ALL OF THE REQUIREMENTS FOR APPROVAL INDICATED IN IBC 2018 SECTION 1704. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
 - THE CONTRACTOR SHALL COORDINATE THE INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE INSPECTOR TO ALLOW PROPER SCHEDULING OF PERSONNEL.
 - THE COSTS OF THE SPECIAL INSPECTOR'S SERVICES SHALL BE PAID FOR BY THE OWNER. COSTS OF INSPECTION SERVICES WHICH ARE EXEMPTED UNDER CHAPTER 17 AND SPECIFIED IN THE PROJECT SPECIFICATIONS, SHALL BE PAID FOR BY THE OWNER.
- REPORTS:**
 - SPECIAL INSPECTORS SHALL KEEP A RECORD OF ALL INSPECTIONS PERFORMED. COPIES OF ALL INSPECTIONS SHALL BE FURNISHED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR WITHIN 48 HOURS OF THE INSPECTION.
 - REPORTS SHALL INDICATE THAT THE WORK WAS PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS SHALL BE IDENTIFIED IN THE REPORT AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR.
 - INTERIM REPORTS OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS INCLUDING ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR PRIOR TO COMPLETION OF THE STRUCTURAL SYSTEMS BUT AT A FREQUENCY NOT TO EXCEED 60 DAYS.

IF ITEMS IN THE SPECIAL INSPECTION SCHEDULE ARE NOT COMPLETED WHEN REQUIRED OR, IN THE OPINION OF THE SPECIAL INSPECTOR ARE FOUND TO BE DEFICIENT, THE ENGINEER OF RECORD SHOULD BE NOTIFIED IMMEDIATELY TO DISCUSS/RESOLVE SAID ISSUES. THE CONTRACTOR MUST NOT WAIT UNTIL ISSUANCE OF THE FINAL REPORT TO BRING THIS TO THE ATTENTION OF THE DESIGN PROFESSIONALS.
- REQUIRED SPECIAL INSPECTIONS:**

IBC SECTION	DESCRIPTION OF WORK	SPECIAL INSPECTION REQUIRED	
		YES	NO
1704.2.5	INSPECTION OF FABRICATORS	X	
1705.2	STEEL CONSTRUCTION	X	2
1705.3	CONCRETE CONSTRUCTION	X	3
1705.4	MASONRY CONSTRUCTION	X	4
1705.5	WOOD CONSTRUCTION		X
1705.6	SOILS	X	5
1705.7	DRIVEN DEEP FOUNDATION	X	
1705.8	CAST-IN-PLACE DEEP FOUNDATIONS	X	
1705.9	HELICAL PILE FOUNDATIONS	X	
1705.10	WIND RESISTANCE	X	
1705.11	SEISMIC RESISTANCE	X	
1705.12	TESTING AND QUALIFICATIONS FOR SEISMIC RESISTANCE	X	
1705.13	SPRAYED FIRE-RESISTANT MATERIALS		X
1705.14	MASTIC AND INTUMESCENT COATINGS		X
1705.15	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)		X

REMARKS:

- WHERE FABRICATION OF STRUCTURAL LOAD BEARING ELEMENTS (I.E. JOISTS) ARE BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS ARE REQUIRED.
- STEEL SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.2, QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360 AND TABLE 1705.2.3.
- CONCRETE SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.3 AND TABLE 1705.3.
- MASONRY SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.4 AND QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS202 SECTION 1.6.
- SOILS SPECIAL INSPECTION: INSPECTION OF THE EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD BEARING REQUIREMENTS SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.6 AND TABLE 1705.6.
- SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1705.11.
- STRUCTURAL TESTING FOR SEISMIC RESISTANCE SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF IBC SECTION 1705.12.

STRUCTURAL LEGEND

SYMBOLS

- FOOTING
- UNREINFORCED CONCRETE MASONRY
- REINFORCED CONCRETE MASONRY
- CONCRETE
- BOND BEAM
- REIN. MASONRY PIERS
- DROP SLAB TO RECEIVE FLOOR FINISH
- THICKENED SLAB
- FLOOR JOINT
- WALL FLOOR JOINT
- SAWN JOINT
- 1" DEEP TOOLED JOINT
- CONCRETE SLAB TURNDOWN
- SLOPE (DIRECTION AND DROP)
- VERTICAL STEP IN WALL FOOTING
- TOP OF STEEL ELEVATION
- TOP OF FOOTING ELEVATION
- ADD #4x4'-0" IN CENTERLINE OF SLAB
- HIGH STRENGTH BOLT
- JOIST BOTTOM CHORD STRUT
- ROOF DRAIN
- FRAME AROUND ROOF DECK OPENING
- BEAM TO COLUMN MOMENT CONNECTION

ABBREVIATIONS

W/	WITH
DBL.	DOUBLE
BOT.	BOTTOM
DJ	DOUBLE JOIST
SIM	SIMILAR
T/O	THROUGHOUT
U.N.	UNLESS NOTED
P.E.-J.	PRE-MOLDED EXPANSION JOINT
GA.	GAUGE
E.W.	EACH WAY
O.C.	ON CENTER
CL.	CLEARANCE
FD	FLOOR DRAIN
A.F.F.V.	AT FINISHED FLOOR
LLV	LONG LEG VERTICAL
SLV	SHORT LEG VERTICAL
EJ	EXPANSION JOINT
MBM	METAL BUILDING MANUFACTURER
MBP	METAL BUILDING PURLINS
O.H.	OPPOSITE HEAD
PB	PARALAM BEAM
ML	MICROLAM BEAM
RS	ROUGH SAWN
P.T.	PRESSURE TREATED
P.E.	PRE-ENGINEERED

STRUCTURAL SHEET INDEX

- S1.0** STRUCTURAL NOTES
- S1.1** FOUNDATION AND ROOF FRAMING PLANS
- S4.1** TYPICAL DETAILS



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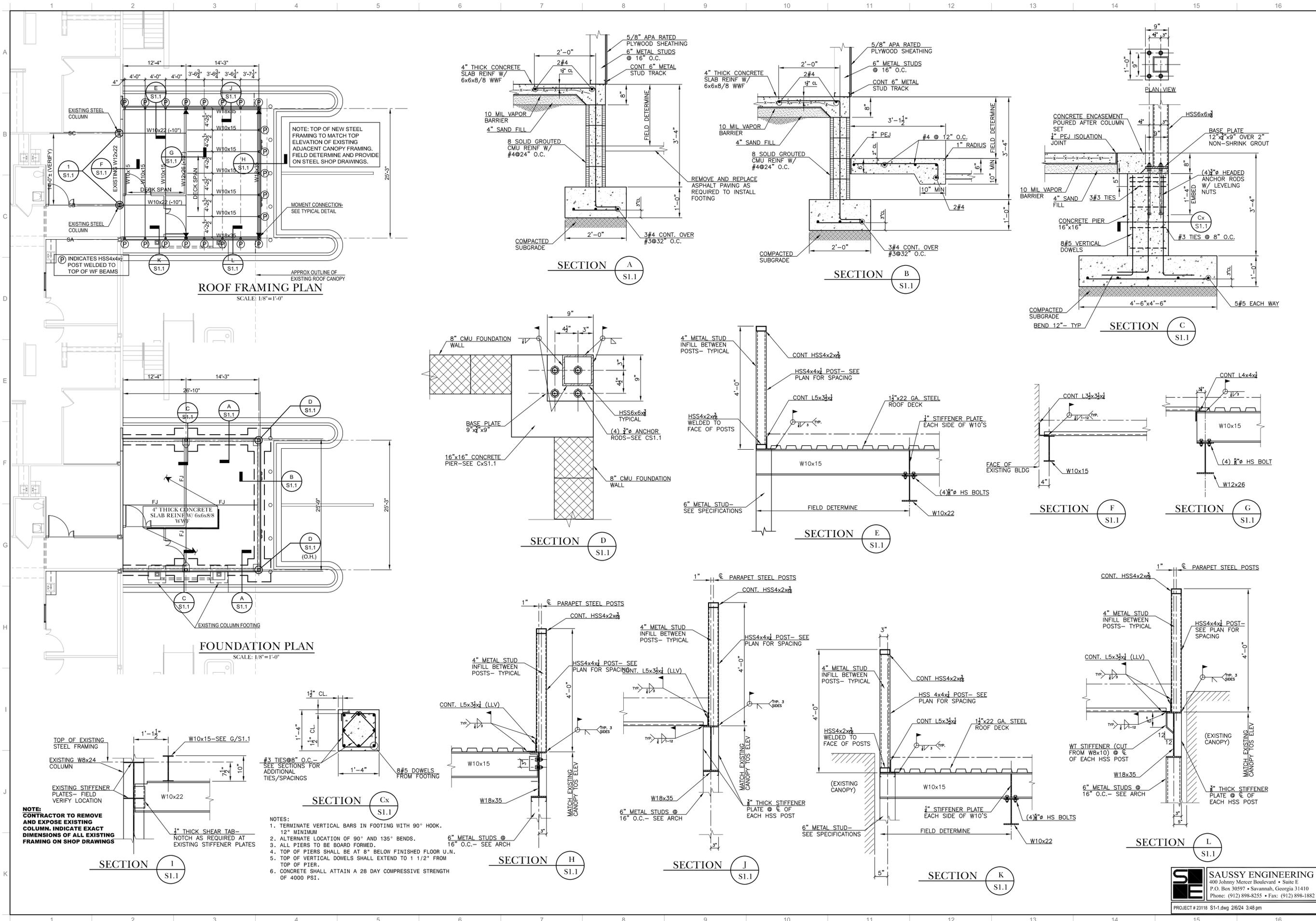
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STRUCTURAL NOTES

S1.0

SE SAUSSY ENGINEERING
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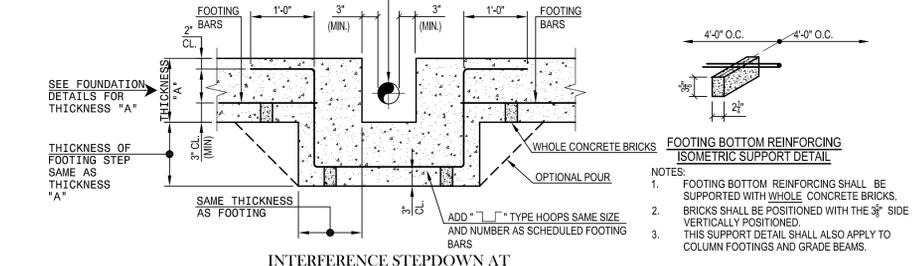
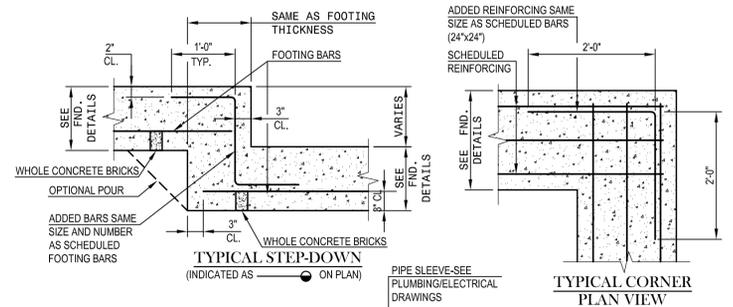
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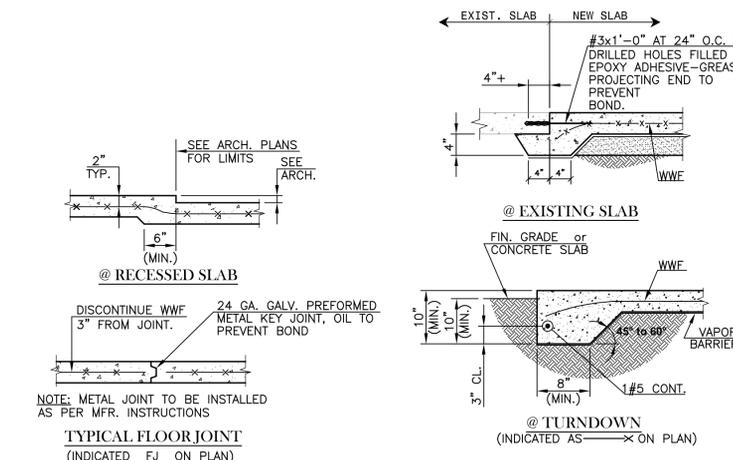
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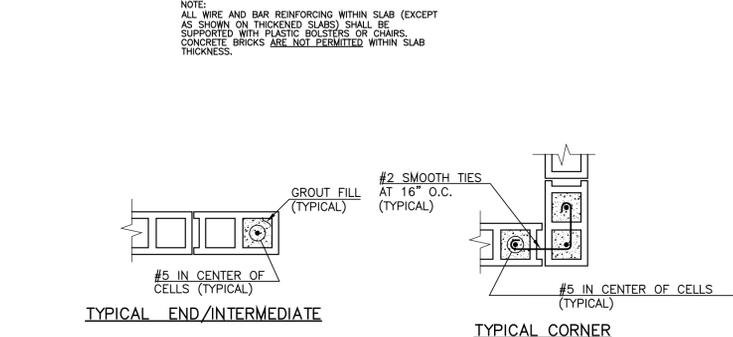
**FOUNDATION AND
ROOF FRAMING
PLANS**



TYPICAL WALL FOOTING DETAILS
(COORDINATE W/ PLUMBING AND ELECTRICAL DRAWINGS)

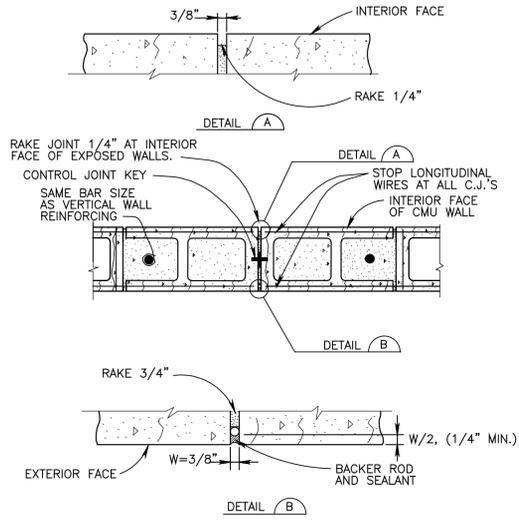


TYPICAL FLOOR SLAB DETAILS

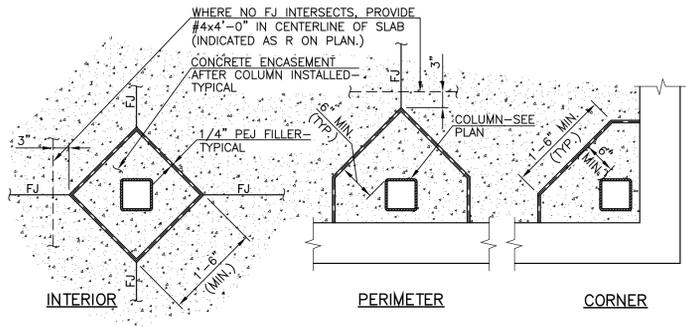


TYPICAL DETAILS FOR REINFORCED CONCRETE MASONRY PIERS

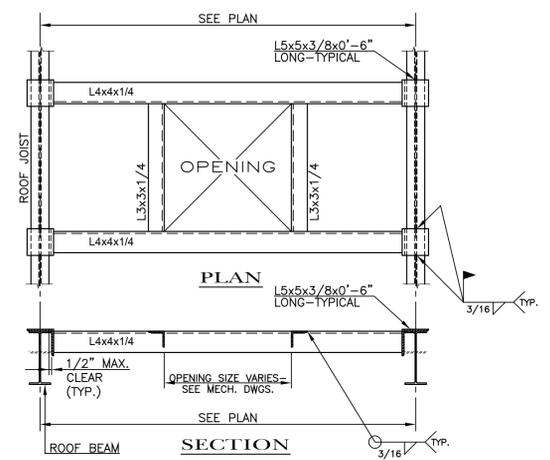
NOTE: ALL #2 SMOOTH TIES SHALL BE INSTALLED WITH 135 DEGREE HOOK AROUND VERTICAL BAR PLUS 1 1/2".



CMU CONTROL JOINT WITH RUBBER KEY

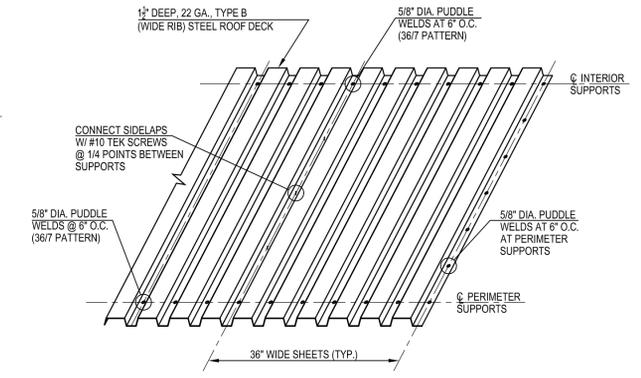


TYPICAL TUBE COLUMN ISOLATION JOINT DETAILS IN CONCRETE SLAB

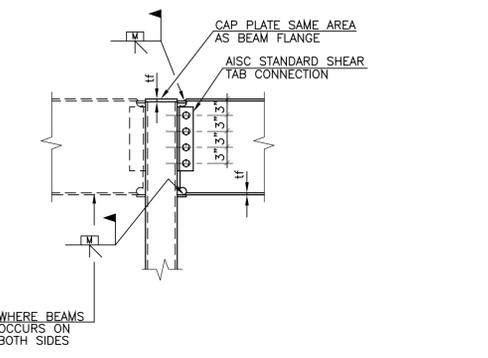


TYPICAL DETAIL AT ROOF OPENINGS

- NOTE: N.T.S.
- THIS DETAIL SHALL APPLY TO ALL ROOF OPENINGS OVER 8" IN EITHER DIRECTION AND THE SUPPORT OF ROOF DRAINS SPECIFIED ON ARCH. OR PLUMBING DRAWINGS.
 - COORDINATE SIZE AND LOCATION OF ROOF OPENING WITH MECHANICAL AND/OR PLUMBING DRAWINGS.

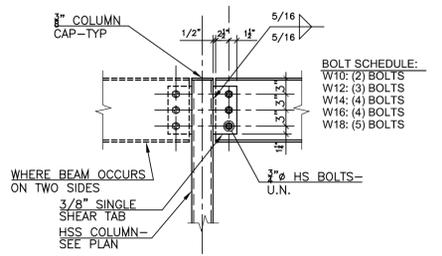


TYPICAL STEEL ROOF DECK ATTACHMENT DETAIL
N.T.S.



TYPICAL DETAIL AT MOMENT CONNECTIONS
(INDICATED AS ON PLAN)

- NOTES:
- ALL BOLTS SHALL BE ASTM 3/4"0 (MIN.) H.S. BOLTS U.N., NUMBER OF BOLTS TO BE AS REQUIRED PER SPECIFICATIONS.
 - ALL MOMENT WELDS SHALL BE TESTED PER SPECIFICATIONS.
 - DO NOT SHOP PAINT SURFACES WITHIN 3" OF AREAS TO RECEIVE MOMENT WELDS. APPLY PRIMER PAINT TO WELDED AREAS AND ADJACENT STEEL SURFACES AFTER WELDS COMPLETED AND CLEANED. SEE SPECIFICATIONS.
 - CAP PLATE AND STIFFENER PLATE STEEL GRADES SHALL MATCH THE BEAM STEEL GRADES. ALTERNATE: WHERE THE PLATE IS 1.4 TIMES THICKER THAN THE BEAM FLANGE, THE PLATE STEEL GRADE MAY BE A36.



TYPICAL BEAM TO HSS COLUMN CONNECTION
UNLESS DETAILED OTHERWISE



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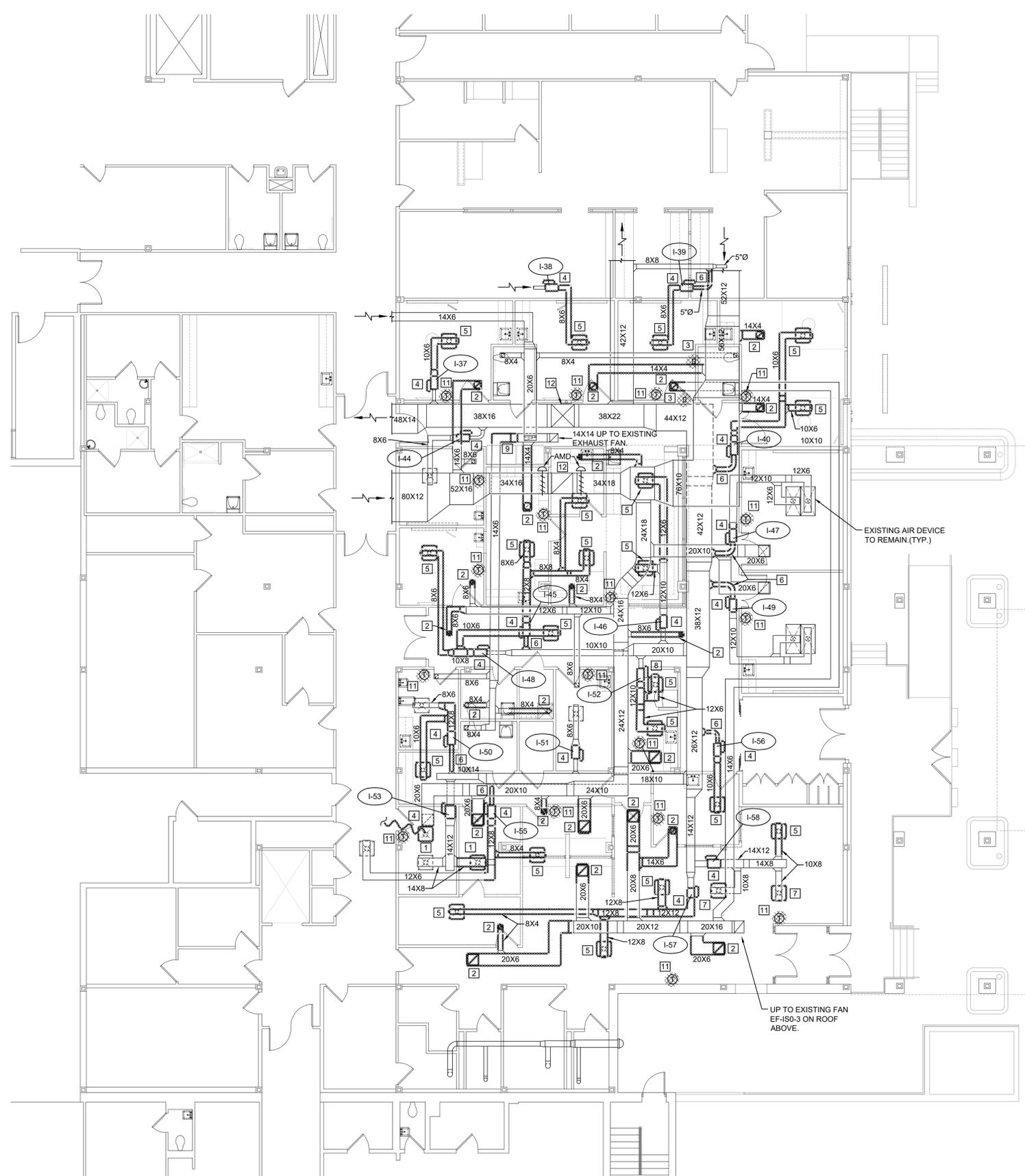
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TYPICAL DETAILS
S4.1



DEMOLITION KEY NOTES: (THIS SHEET ONLY)

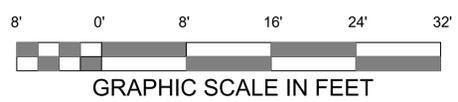
- 1 REMOVE EXISTING CEILING SUPPLY GRILLE AS SHOWN. SEAL OPENING WITH SHEET METAL AND MASTIC. INSULATE TO MATCH EXISTING.
- 2 REMOVE EXISTING CEILING RETURN/EXHAUST GRILLE AND DUCTWORK AS SHOWN.
- 3 REMOVE EXISTING AIR PRESSURE MONITOR/ALARM PANEL AND SENSOR.
- 4 REMOVE EXISTING VAV TERMINAL AND REPLACE WITH NEW VAV TERMINAL AS SHOWN ON NEW WORK PLANS.
- 5 REMOVE EXISTING SUPPLY DUCTWORK AND AIR DEVICE AS SHOWN.
- 6 REMOVE EXISTING MEDIUM PRESSURE SUPPLY DUCT AS SHOWN.
- 7 REMOVE EXISTING CEILING SUPPLY GRILLE AND REPLACE WITH NEW GRILLE AS SHOWN ON NEW WORK PLANS.
- 8 REMOVE EXISTING VAV TERMINAL UNIT.
- 9 REMOVE EXISTING EXHAUST DUCTWORK AS SHOWN.
- 10 REMOVE EXISTING CEILING RETURN GRILLE AND REPLACE WITH NEW GRILLE AS SHOWN ON NEW WORK PLAN.
- 11 REMOVE EXISTING THERMOSTAT.
- 12 EXISTING DUCT UP TO AHU-1 LOCATED ON ROOF ABOVE 2ND FLOOR.



EXISTING AIR DEVICE TO REMAIN (TYP.)

UP TO EXISTING FAN EF-ISO-3 ON ROOF ABOVE.

1 HVAC DUCTWORK DEMOLITION PLAN
M1.0 SCALE: 1/8" = 1' - 0"



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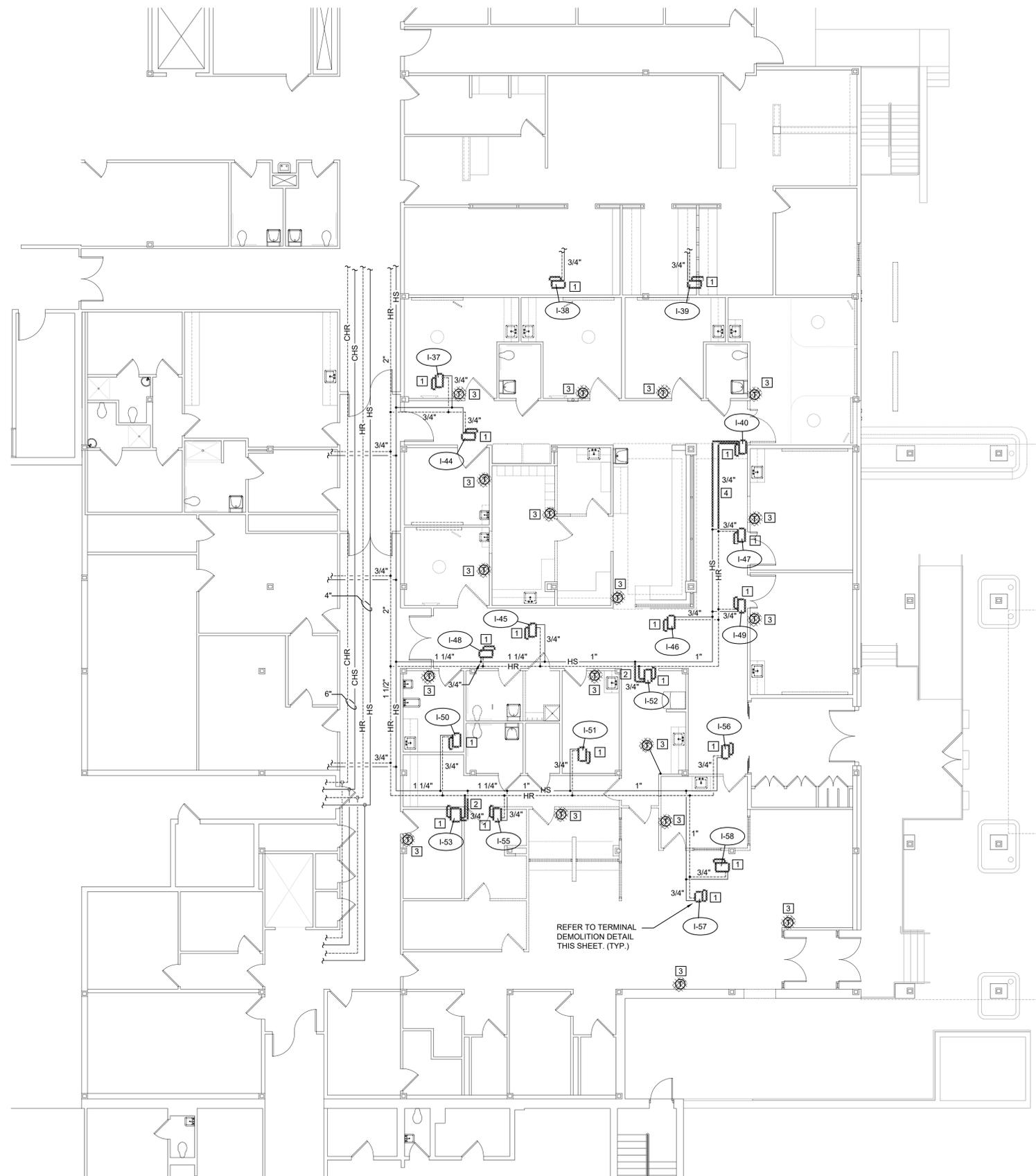
HVAC DUCTWORK
DEMOLITION PLAN
M1.0



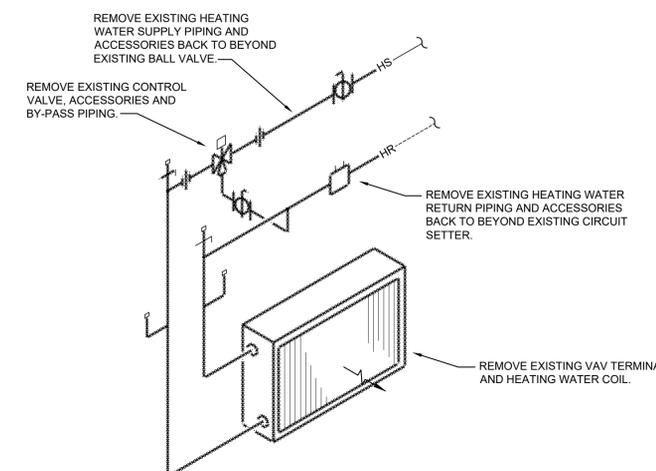
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DEMOLITION KEY NOTES:(THIS SHEET ONLY)

- 1 REMOVE EXISTING VAV TERMINAL UNIT AND THERMOSTAT AND REPLACE WITH NEW VAV TERMINAL AND THERMOSTAT AS SHOWN ON NEW WORK PLANS. REFER TO DETAIL THIS SHEET.
- 2 REMOVE EXISTING HEATING WATER SUPPLY AND RETURN PIPING BACK TO MAIN LINE AND CAP.
- 3 REMOVE EXISTING WALL MOUNTED THERMOSTAT.
- 4 REMOVE EXISTING HEATING WATER PIPING AS SHOWN. REFER TO NEW WORK PLANS FOR NEW PIPING LAYOUT.



1 HVAC PIPING DEMOLITION PLAN
M1.1 SCALE: 1/8" = 1' - 0"



2 TERMINAL UNIT I-40 & I-56 DEMOLITION DETAIL
M1.1 NO SCALE



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HVAC PIPING
DEMOLITION PLAN &
DETAIL

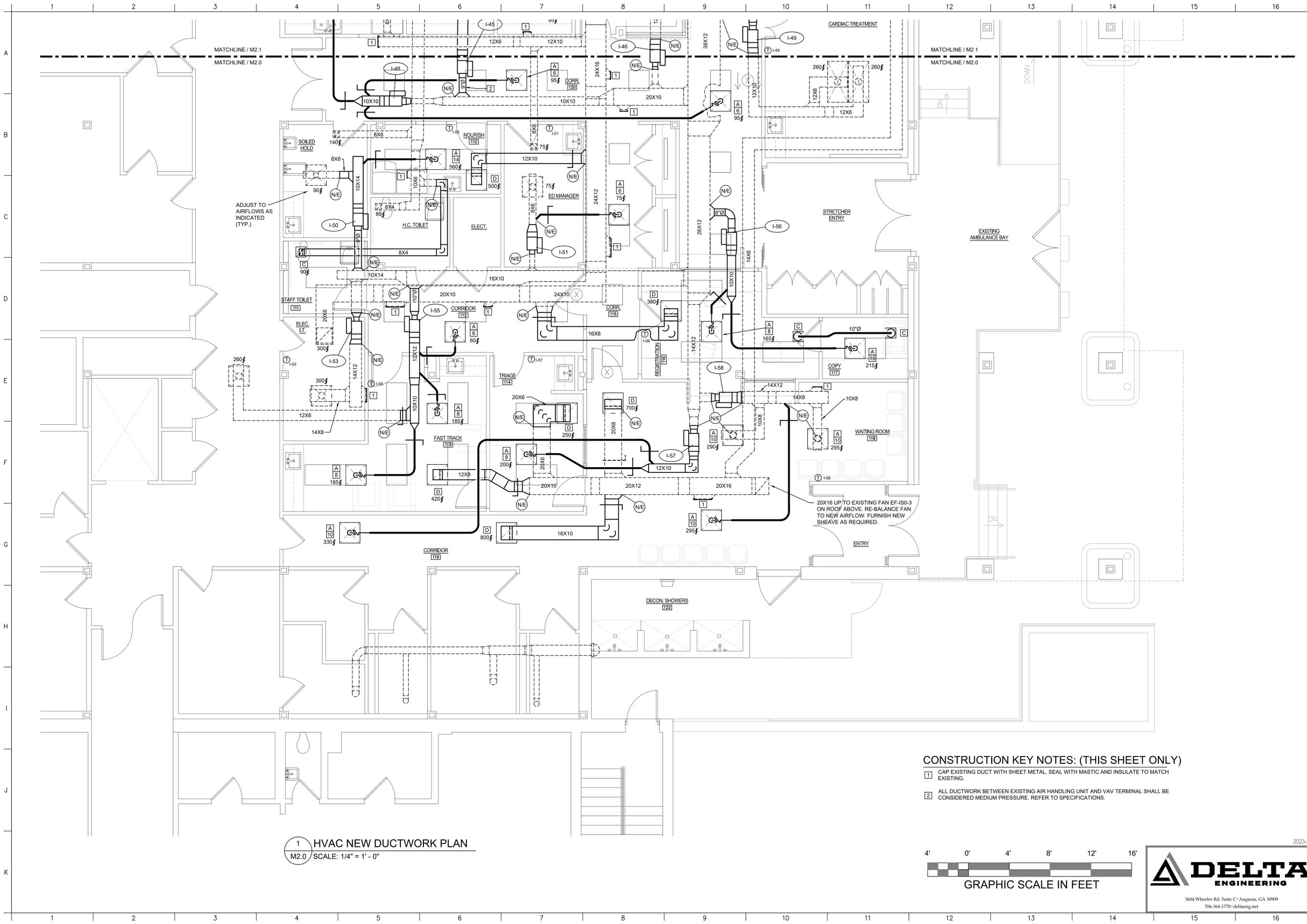
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HVAC NEW DUCTWORK PLAN	
M2.0	



1 HVAC NEW DUCTWORK PLAN
M2.0 SCALE: 1/4" = 1' - 0"

CONSTRUCTION KEY NOTES: (THIS SHEET ONLY)

- 1 CAP EXISTING DUCT WITH SHEET METAL. SEAL WITH MASTIC AND INSULATE TO MATCH EXISTING.
- 2 ALL DUCTWORK BETWEEN EXISTING AIR HANDLING UNIT AND VAV TERMINAL SHALL BE CONSIDERED MEDIUM PRESSURE. REFER TO SPECIFICATIONS.

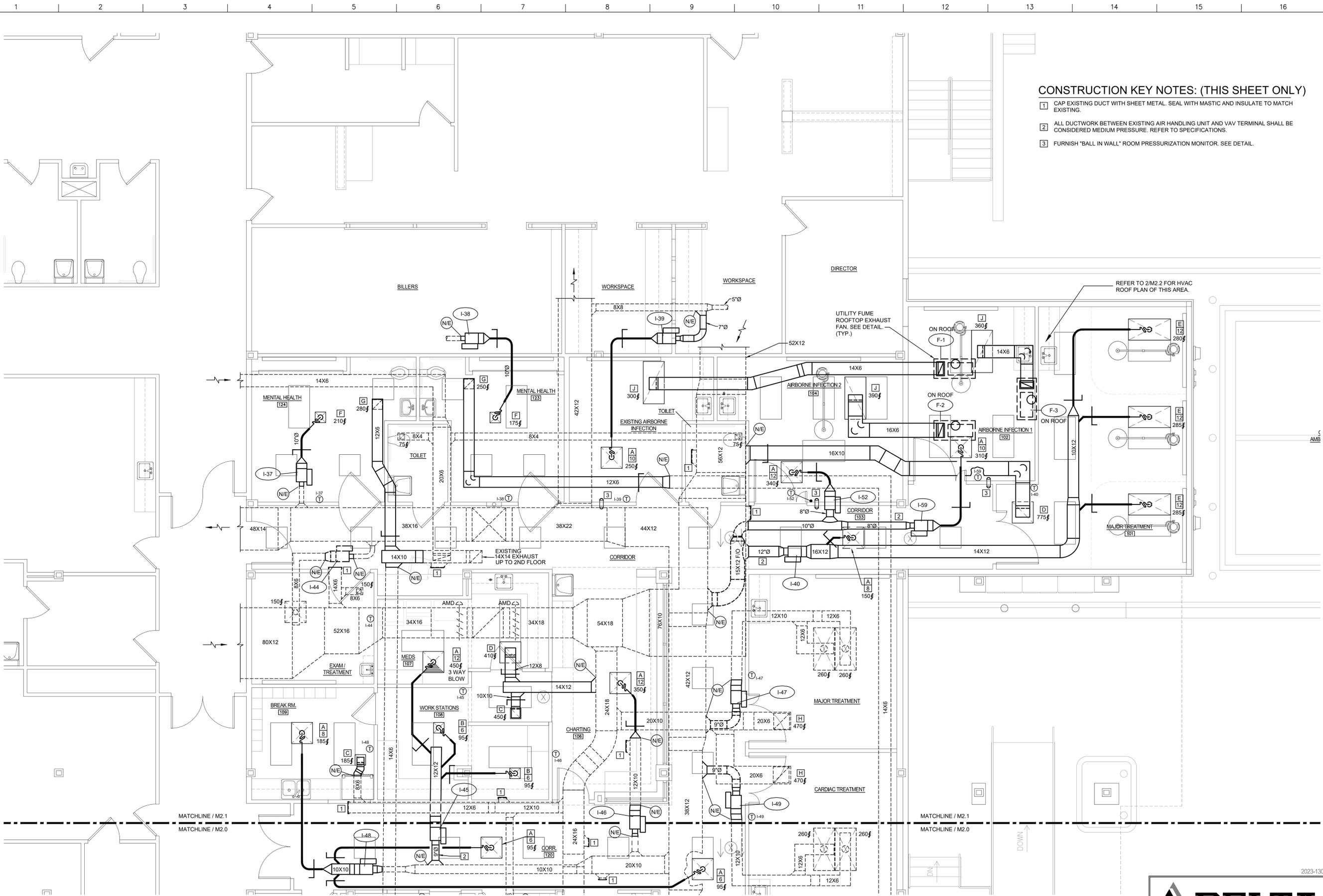


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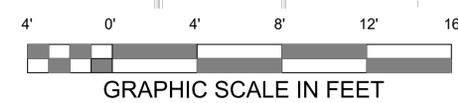


CONSTRUCTION KEY NOTES: (THIS SHEET ONLY)

- 1 CAP EXISTING DUCT WITH SHEET METAL. SEAL WITH MASTIC AND INSULATE TO MATCH EXISTING.
- 2 ALL DUCTWORK BETWEEN EXISTING AIR HANDLING UNIT AND VAV TERMINAL SHALL BE CONSIDERED MEDIUM PRESSURE. REFER TO SPECIFICATIONS.
- 3 FURNISH "BALL IN WALL" ROOM PRESSURIZATION MONITOR. SEE DETAIL.



1 HVAC NEW DUCTWORK PLAN
M2.1 SCALE: 1/4" = 1' - 0"



2023-130

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**EMERGENCY DEPT. RENOVATION
EMANUEL MEDICAL CENTER
SWAINSBORO, GEORGIA**

BID	
PROJECT NUMBER:	2235
PROJECT DATE:	2/14/24
DRAWN BY:	MHW
APPROVED BY:	CAB
SCHEDULE OF REVISIONS	
#	DATE

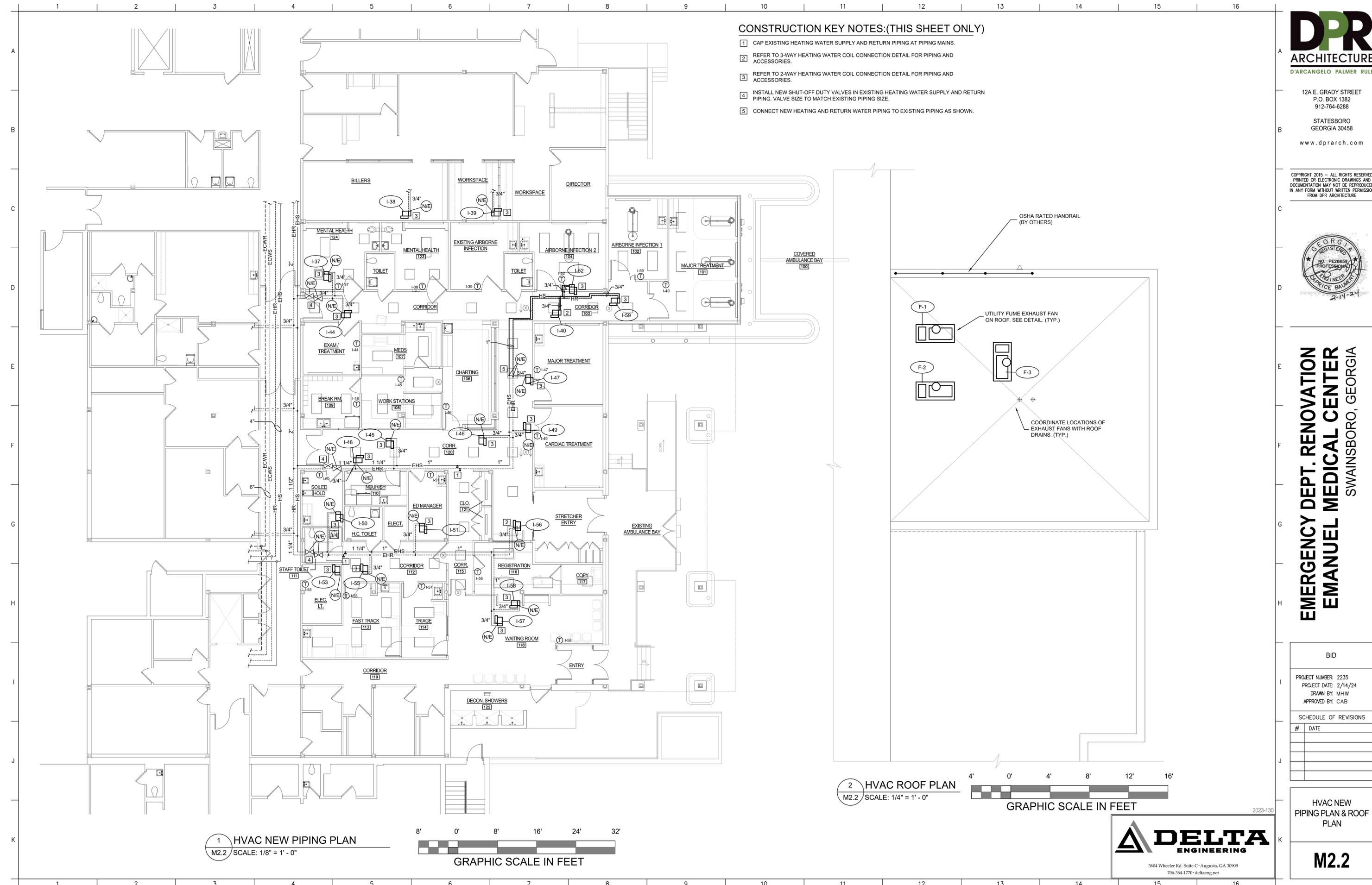
HVAC NEW
DUCTWORK PLAN

M2.1



CONSTRUCTION KEY NOTES:(THIS SHEET ONLY)

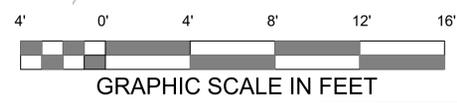
- 1 CAP EXISTING HEATING WATER SUPPLY AND RETURN PIPING AT PIPING MAINS.
- 2 REFER TO 3-WAY HEATING WATER COIL CONNECTION DETAIL FOR PIPING AND ACCESSORIES.
- 3 REFER TO 2-WAY HEATING WATER COIL CONNECTION DETAIL FOR PIPING AND ACCESSORIES.
- 4 INSTALL NEW SHUT-OFF DUTY VALVES IN EXISTING HEATING WATER SUPPLY AND RETURN PIPING. VALVE SIZE TO MATCH EXISTING PIPING SIZE.
- 5 CONNECT NEW HEATING AND RETURN WATER PIPING TO EXISTING PIPING AS SHOWN.



1 HVAC NEW PIPING PLAN
M2.2 SCALE: 1/8" = 1' - 0"



2 HVAC ROOF PLAN
M2.2 SCALE: 1/4" = 1' - 0"



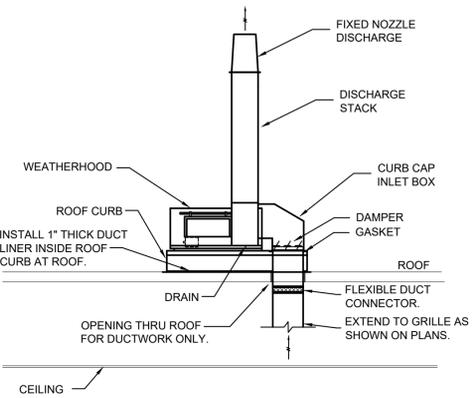
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**EMERGENCY DEPT. RENOVATION
EMANUEL MEDICAL CENTER**
SWAINSBORO, GEORGIA

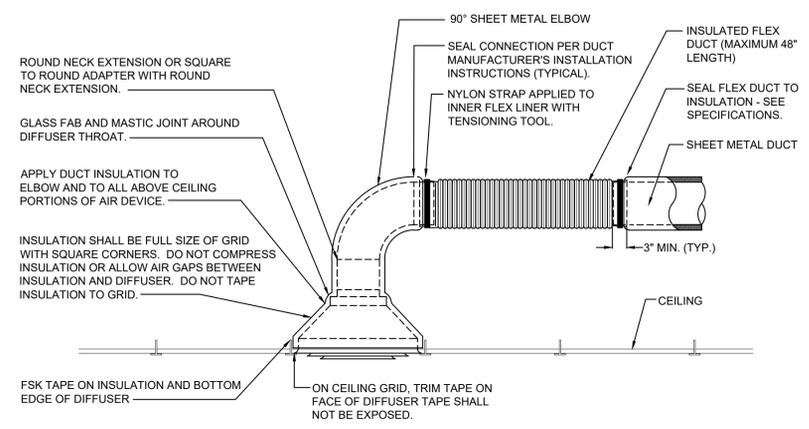
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HVAC NEW PIPING PLAN & ROOF PLAN
M2.2

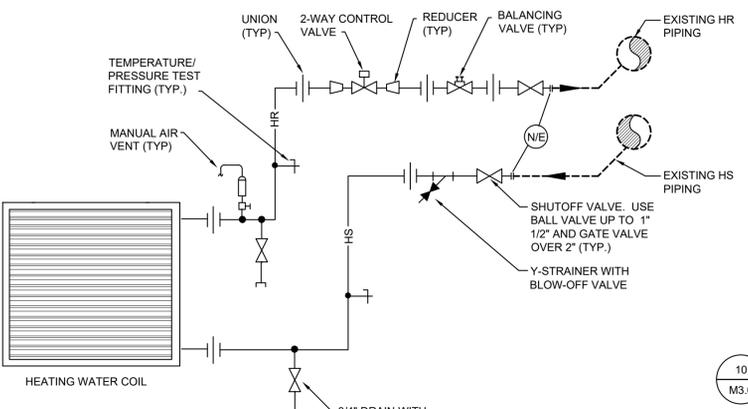
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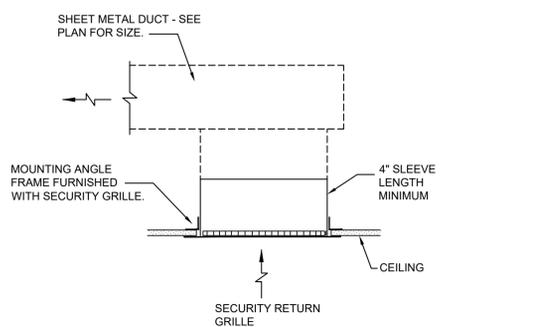
1 UTILITY FUME EXHAUST FAN DETAIL
M3.0 SCALE: NONE



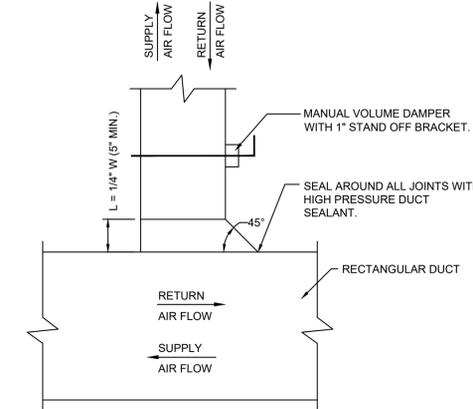
4 ROUND DUCT CONNECTION DETAIL
M3.0 SCALE: NONE



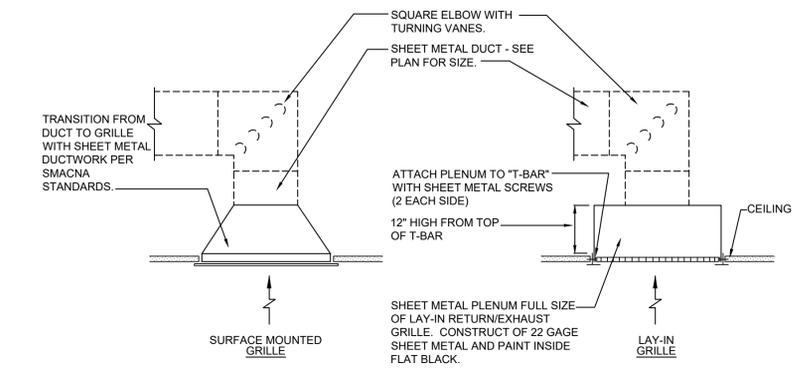
7 COIL PIPING DETAIL FOR 2 WAY CONTROL VALVE
M3.0 SCALE: NONE



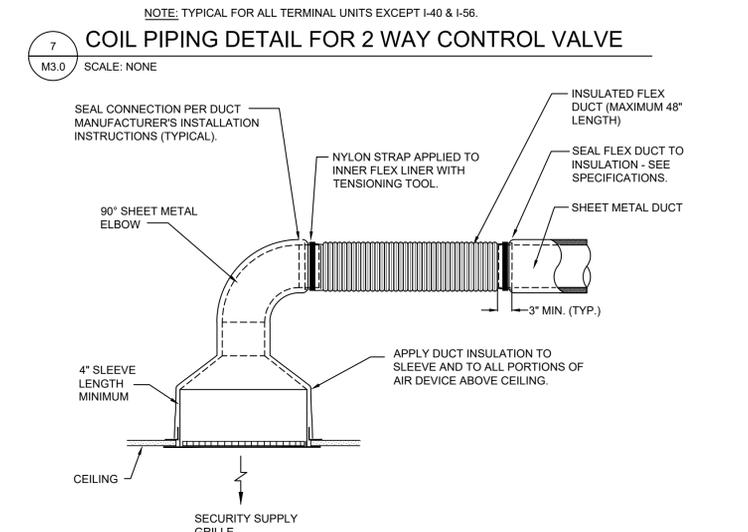
10 SECURITY RETURN GRILLE CONNECTION DETAIL
M3.0 SCALE: NONE



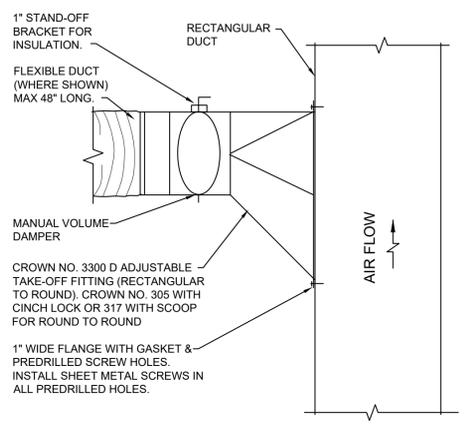
2 RECTANGULAR TAKE-OFF DETAIL FOR SUPPLY AND RETURN DUCTWORK
M3.0 SCALE: NONE



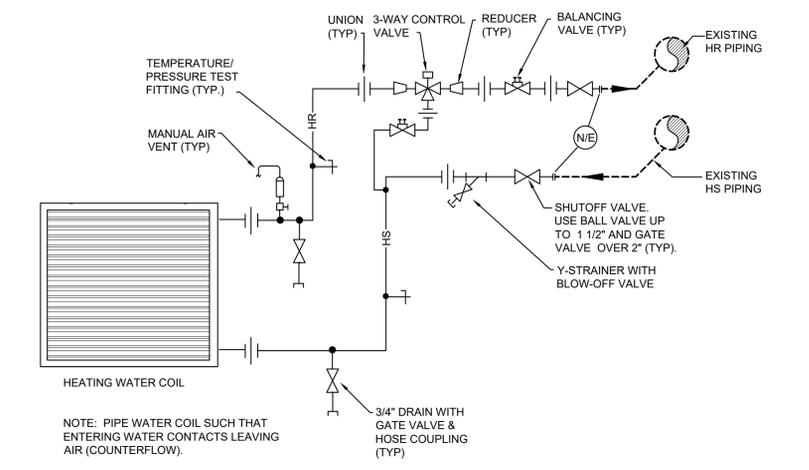
5 EXHAUST/RETURN GRILLE CONNECTION DETAILS
M3.0 SCALE: NONE



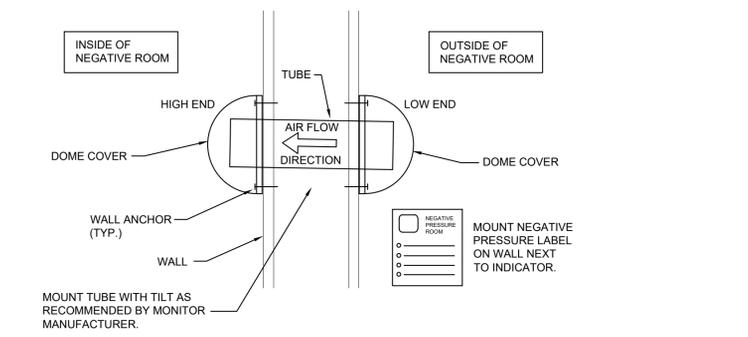
8 SECURITY SUPPLY GRILLE CONNECTION DETAIL
M3.0 SCALE: NONE



3 SUPPLY DUCT TAKEOFF FITTING DETAIL
M3.0 SCALE: NONE



6 COIL PIPING DETAIL FOR 3 WAY CONTROL VALVE - TERMINAL UNITS I-40 & I-56
M3.0 SCALE: NONE



9 ROOM PRESSURIZATION MONITOR DETAIL
M3.0 SCALE: NONE



**EMERGENCY DEPT. RENOVATION
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HVAC GENERAL NOTES

EXISTING WORK IS SHOWN IN ITS APPROXIMATE LOCATION AND ARRANGEMENT. EXISTING WORK SHOWN MAY NOT INCLUDE ALL EXISTING CONDITIONS. EXACT LOCATION, ARRANGEMENT, AND SIZES SHALL BE VERIFIED BEFORE STARTING ANY NEW WORK OR ORDERING ANY MATERIALS.

INSTALL DUCTWORK AND PIPING ABOVE CEILINGS WHERE POSSIBLE AND IN CHASES TO PROVIDE MAXIMUM POSSIBLE CLEARANCE'S FOR MAINTENANCE ACCESS. INSTALL PIPING AND DUCTWORK IN EQUIPMENT ROOMS PARALLEL OR PERPENDICULAR TO WALLS AND CEILINGS UNLESS SHOWN OTHERWISE.

ALL DUCTWORK AND PIPING SHALL BE CONCEALED UNLESS NOTED OTHERWISE.

COORDINATE THE INSTALLATION OF DUCTWORK AND PIPING WITH THAT OF OTHER TRADES TO PROVIDE THE BEST POSSIBLE ARRANGEMENT. REFER TO PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS AND SPRINKLER SHOP DRAWINGS. ARRANGE PIPING AND DUCTWORK TO AVOID CONFLICTS WITH OTHER BUILDING TRADES.

UNLESS DIMENSIONED, PIPING, DUCTWORK, AND EQUIPMENT ARE SHOWN IN APPROXIMATE LOCATIONS. EXACT CONFIGURATION SHALL BE DETERMINED IN THE FIELD TO COORDINATE WITH OTHER TRADES AND TO ALLOW FOR A MINIMUM NUMBER OF OFFSETS AS POSSIBLE WHILE ALLOWING FOR ADEQUATE MAINTENANCE ACCESS.

FURNISH FLEXIBLE DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.

FURNISH FLANGED OR UNION CONNECTIONS IN PIPING AT ALL EQUIPMENT AND CONTROL VALVES, AND AS REQUIRED FOR SERVICE.

EXACT LOCATION OF AIR DEVICES SHALL BE DETERMINED IN THE FIELD. COORDINATE WITH ARCHITECTURAL REQUIREMENTS AND LIGHTING. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL PLANS FOR LIGHT LOCATIONS. AIR DEVICE LOCATIONS SHALL BE INSTALLED WITH A UNIFORM APPEARANCE AND SHALL BE SYMMETRICAL.

DUCT ACCESS DOORS SHALL BE FURNISHED AT ALL FIRE AND SMOKE DAMPERS, DUCT MOUNTED COILS, AND AT ALL DUCT MOUNTED CONTROL DEVICES.

FURNISH MANUAL AIR VENTS AT ALL HIGH POINTS OF HYDRONIC PIPING SYSTEMS AND ELSEWHERE AS SHOWN.

SLOPE DRAIN LINE TOWARDS DRAIN WITH A MINIMUM SLOPE OF 1/4" PER FOOT.

THERMOSTAT LOCATIONS SHALL BE A MINIMUM OF 8" AWAY FROM DOOR FRAMES. COORDINATE LOCATION OF THERMOSTATS WITH LIGHT SWITCHES AND OTHER WALL DEVICES FOR SYMMETRY. MOUNT AT 4'-0" A.F. UNLESS NOTED OTHERWISE.

H.V.A.C. LEGEND

SYMBOL	DESCRIPTION
	REFRIGERANT SUCTION / LIQUID
	CONDENSATE DRAIN
	THERMOSTAT 4'-0" A.F.
	WALL SWITCH
	FLEXIBLE DUCT CONNECTION AT UNIT
	LINED DUCT (SIZE SHOWN IS METAL SIZE)
	FLEXIBLE DUCT CONNECTION
	SUPPLY DIFFUSER
	RETURN / EXHAUST GRILLE
	FIRE DAMPER
	SMOKE DAMPER
	FIRE / SMOKE DAMPER
	ACCESS DOOR
	CEILING RADIATION DAMPER
	SQUARE ELBOW WITH TURNING VANES
	MANUAL VOLUME DAMPER
	MOTOR OPERATED DAMPER
	SEE AIR DEVICE SCHEDULE FOR TYPE NECK CONNECTION SIZE UNLESS NOTED OTHERWISE
	AIR MEASURING DEVICE
	EQUIPMENT NUMBER - SEE SCHEDULES
	AIRFLOW DIRECTION
	FLAT OVAL DUCTWORK
	AIR EXTRACTOR
	OPPOSED BLADE DAMPER
	DIAMETER
	ENTERING
	LEAVING
	STATIC PRESSURE
	AIR PRESSURE DROP
	NEW TO EXISTING
	OUTDOOR AIR
	CUBIC FEET PER MINUTE
	WATER PRESSURE DROP
	CHILLED WATER SUPPLY
	EXISTING CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	EXISTING CHILLED WATER RETURN
	HEATING WATER SUPPLY
	EXISTING HEATING WATER SUPPLY
	HEATING WATER RETURN
	EXISTING HEATING WATER RETURN
	SHUTOFF DUTY VALVE
	THROTTLING DUTY VALVE
	BALANCING VALVE
	CHECK VALVE
	TRIPLE DUTY VALVE
	STRAINER WITH BLOWDOWN
	PIPE UNION
	THERMOMETER
	PRESSURE GAUGE
	PIPE FLOW DIRECTION
	GALLONS PER MINUTE
	TYPICAL

AIR DEVICE SCHEDULE

MARK	TYPE	NECK SIZE (1)	FINISH	OPPOSED BLADE DAMPER	TITUS MODEL NUMBER	NOTES
A 6	SQUARE CEILING DIFFUSER	6"Ø	MANUFACTURERS STANDARD WHITE	YES	TMS / 24"X24" FACE	(2)
A 8	SQUARE CEILING DIFFUSER	8"Ø	MANUFACTURERS STANDARD WHITE	YES	TMS / 24"X24" FACE	(2)
A 10	SQUARE CEILING DIFFUSER	10"Ø	MANUFACTURERS STANDARD WHITE	YES	TMS / 24"X24" FACE	(2)
A 12	SQUARE CEILING DIFFUSER	12"Ø	MANUFACTURERS STANDARD WHITE	YES	TMS / 24"X24" FACE	(2)
A 14	SQUARE CEILING DIFFUSER	14"Ø	MANUFACTURERS STANDARD WHITE	YES	TMS / 24"X24" FACE	(2)
B 6	SQUARE CEILING DIFFUSER	6"Ø	MANUFACTURERS STANDARD WHITE	YES	TMS / 12"X12" FACE	(2)
B 8	SQUARE CEILING DIFFUSER	8"Ø	MANUFACTURERS STANDARD WHITE	YES	TMS / 12"X12" FACE	(2)
C	EGG CRATE RETURN / EXHAUST	10"X10"	MANUFACTURERS STANDARD WHITE	NO	50F / 12X12 PANEL WITH BORDER FRAME	(2)
D	EGG CRATE RETURN / EXHAUST	22"X22"	MANUFACTURERS STANDARD WHITE	YES	50F / 24X24 PANEL WITH BORDER FRAME	(2)
E 12	LAMINAR FLOW SUPPLY GRILLE	12"Ø	MANUFACTURERS STANDARD WHITE	YES	GREENHECK MODEL HLC-GSL 48X24 MODULE WITH HEPA FILTER	(2)
F	CEILING SUPPLY GRILLE	10X10	MANUFACTURERS STANDARD WHITE	YES	SG-SD WITH ANGLE FRAME	(2)(3)
G	CEILING RETURN GRILLE	10X10	MANUFACTURERS STANDARD WHITE	NO	SG-SD WITH ANGLE FRAME	(2)(3)
H	EGG CRATE RETURN / EXHAUST	18"X18"	MANUFACTURERS STANDARD WHITE	YES	50F / 20X20 PANEL WITH BORDER FRAME	(2)
J	LAMINAR FLOW FILTER RETURN GRILLE	SEE PLANS	MANUFACTURERS STANDARD WHITE	YES	GREENHECK MODEL HLC-GSL 48X24 MODULE WITH HEPA FILTER	(2)

- (1) DUCT RUNOUT SHALL BE SAME SIZE AS NECK SIZE UNLESS NOTED OTHERWISE.
- (2) SEE ARCHITECTURAL PLANS FOR CEILING TYPE. FURNISH LAY-IN TYPE FOR T-BAR CEILINGS AND SURFACE TYPE FOR ALL OTHER CEILINGS.
- (3) MAXIMUM SECURITY GRILLE.

FAN SCHEDULE

ITEM	LOCATION	SERVES	C.F.M.	EXT. S.P. (IN. WC)	HP	R.P.M.	dBA	GREENHECK MODEL NO.	ELECTRICAL DATA (3)		NOTES
									VOLTS	PHASE	
F-1	ROOF	AI (EXIST)	300	1.5	1/3	2355	67	FJC-306	460	3Ø	(1)(2)
F-2	ROOF	AI 104	390	1.5	1/2	2615	69	FJC-306	460	3Ø	(1)(2)
F-3	ROOF	AI 102	360	1.5	1/3	2509	69	FJC-306	460	3Ø	(1)(2)

- (1) FURNISH BACKDRAFT DAMPER, INSULATED ROOF CURB, DRAIN CONNECTION, DISCHARGE STACK, WEATHERHOOD, VFD RATED MOTOR, AND DISCONNECT MEANS. REFER TO DETAIL FOR MOUNTING REQUIREMENTS.
- (2) FAN TO OPERATE CONTINUOUSLY.
- (3) COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS & CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES FOUND.

VAV TERMINAL UNIT SCHEDULE

ITEM	PRIMARY AIR VALVE			AIR VALVE NECK CONN.	HYDRONIC HEATING COIL			TITUS MODEL NO. (3)
	DESIGN C.F.M.	MIN C.F.M.	P.D. (1)		MBH (2)	GPM	WPD (FT)	
1-37	210	175	0.5"	5"Ø	7.3	1	0.48	ESV
1-38	175	155	0.5"	5"Ø	6.8	1	0.48	ESV
1-39	250	250	0.5"	5"Ø	13.4	1	0.48	ESV (4)
1-40	1000	1000	0.5"	12"Ø	41.8	2	0.55	ESV (4)
1-44	150	110	0.5"	5"Ø	5.8	1	0.48	ESV
1-45	600	300	0.5"	9"Ø	13.5	2	0.41	ESV
1-46	350	160	0.5"	7"Ø	7.8	1	0.64	ESV
1-47	520	520	0.5"	7"Ø	20.5	1	0.17	ESV (4)
1-48	375	375	0.5"	7"Ø	17.9	1	0.17	ESV (4)
1-49	520	520	0.5"	7"Ø	20.5	1	0.17	ESV (4)
1-50	650	350	0.5"	9"Ø	14.4	2	0.41	ESV
1-51	150	85	0.5"	5"Ø	5.0	1	0.48	ESV
1-52	340	340	0.5"	7"Ø	17.2	1	0.17	ESV (4)
1-53	300	0	0.5"	7"Ø	-	-	-	ESV
1-55	690	690	0.5"	9"Ø	31.6	2	0.41	ESV (4)
1-56	380	150	0.5"	7"Ø	7.6	1	0.48	ESV
1-57	530	530	0.5"	7"Ø	20.6	1	0.17	ESV (4)
1-58	880	880	0.5"	10"Ø	34.8	2	0.47	ESV (4)
1-59	310	310	0.5"	7"Ø	16.5	1	0.17	ESV (4)

- (1) MAXIMUM P.D. (IN. W.C.) AT DESIGN CFM.
- (2) 180 DEGREES F ENTERING WATER TEMPERATURE
- (3) DUCT RUNOUTS SHALL BE NECKSIZE UNLESS INDICATED OTHERWISE. FURNISH DDC CONTROLS AND SOLID METAL LINER OVER FIBERGLASS INSULATION.
- (4) FURNISH 2 ROW COIL

DDC SYSTEM POINTS LIST - TERMINAL UNIT

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOWN ON GRAPHIC		
	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	ANALOG VALUE	BINARY VALUE	PID LOOP	SCHEDULE		TREND	ALARM
DAMPER (TYPICAL)		X					X				X
REHEAT CONTROL VALVE		X					X				X
ZONE TEMP (TYPICAL)	X										X
ZONE TEMP OFFSET (TYPICAL)	X										X
AIRFLOW	X										X
DISCHARGE AIR TEMP	X										X

(1) NUMBER OF STAGES EQUAL TO COIL STAGES

DDC SYSTEM POINTS LIST - EXHAUST FANS -(ISOLATION ROOMS)

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS		SHOWN ON GRAPHIC
	ANALOG INPUT	ANALOG OUTPUT	BINARY INPUT	BINARY OUTPUT	TREND	ALARM	
FAN STATUS			X		X		X
FAN START/STOP				X	X		X
FAN FAILURE						X	
FAN IN HAND						X	



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EMERGENCY DEPT. RENOVATION
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HVAC NOTES, LEGEND,
SCHEDULES & POINTS
LIST

M4.0

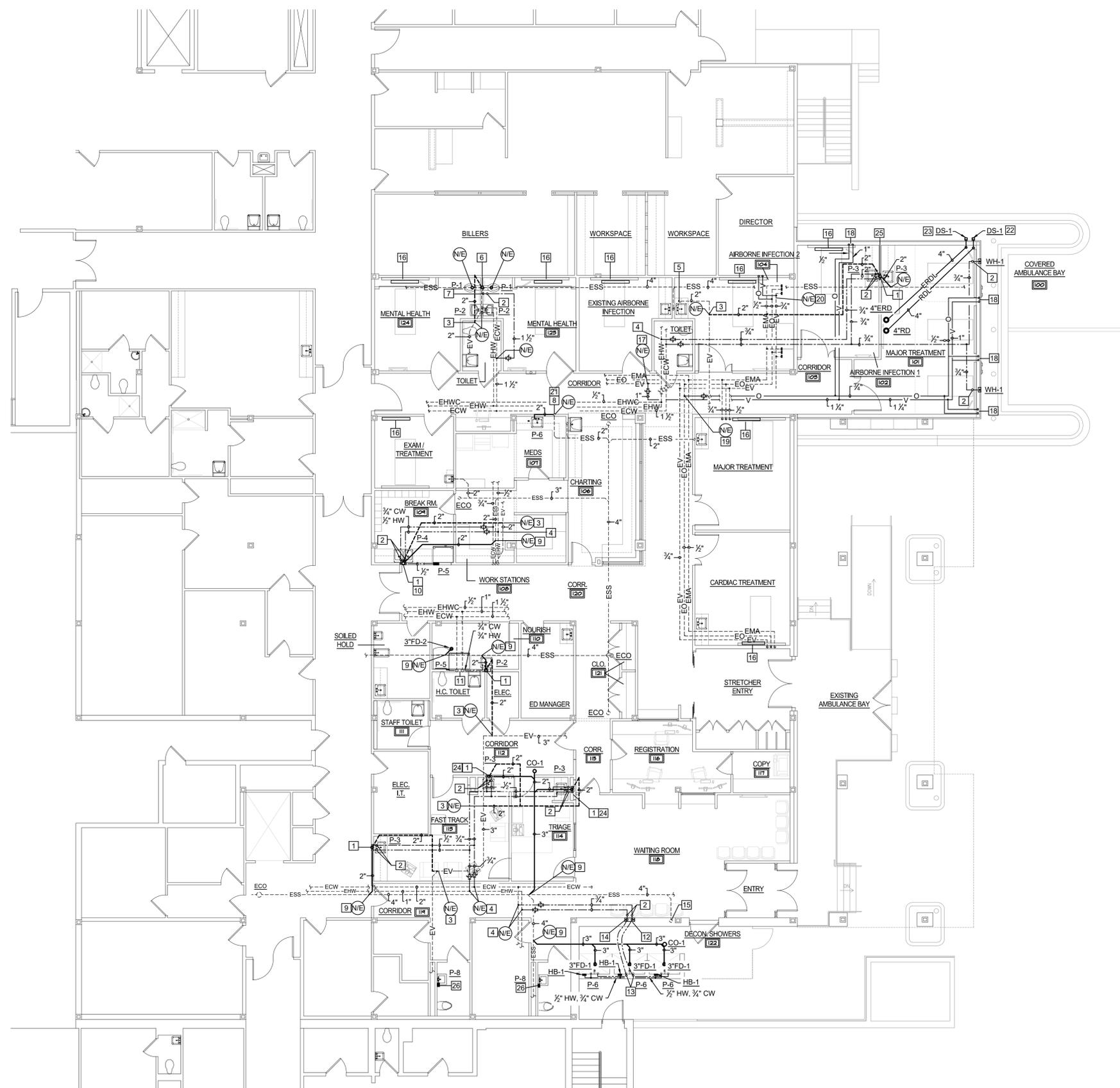


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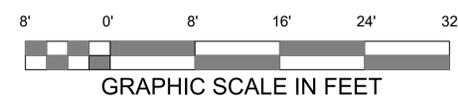


CONSTRUCTION NOTES THIS SHEET:

- 1 2" WASTE, 2" VENT
- 2 INDICATES NEW SHOCK ABSORBER SA. SIZE SHALL BE "A" UNLESS OTHERWISE NOTED.
- 3 CONNECT NEW VENT TO EXISTING VENT AT THIS LOCATION.
- 4 CONNECT NEW HW, CW TO EXISTING WATER PIPING AT THIS LOCATION. VERIFY SIZE OF EXISTING AND ADJUST AS NECESSARY TO CONNECT TO SIZE MATCHING NEW PIPING.
- 5 EXISTING FAUCET MOUNTED EYE WASH STATION RELOCATED TO THIS POINT.
- 6 PROVIDE NEW 2" VENT PIPING.
- 7 1 1/2" CW DOWN. PROVIDE 1" CW TO EACH TOILET.
- 8 PROVIDE NEW 1 1/2" WASTE ARM. CONNECT TO EXISTING 2" WASTE STACK. CONNECT NEW 1/2" CW, HW TO EXISTING WATER PIPING THAT SERVED EXISTING SINK.
- 9 CONNECT NEW WASTE TO EXISTING WASTE PIPING. VERIFY EXISTING WASTE PIPING IS SAME SIZE AS NEW PIPING AND ADJUST AS NECESSARY FOR CONNECTION.
- 10 3/4" CW, 1/2" HW DOWN. PROVIDE 1/2" CW, HW TO SINK WITH 1/2" CW TO ICE MAKER CONNECTION.
- 11 CONNECT NEW 1/2" HW, 3/4" CW FOR SINK TO EXISTING DROPS. PROVIDE 1/2" CW TO ICE MAKER BOX.
- 12 3/4" HW, CW DOWN TO BELOW FLOOR. EXTEND TYPE "L" SOFT COPPER OVER TO SHOWER WALL AND EXTEND UP TO DECON SHOWERS.
- 13 3/4" HW, CW FROM BELOW FLOOR. 1/2" HW, CW TO EACH SHOWER VALVE, AND 3/4" CW TO HOSE BIBB.
- 14 INSTALL ACUDOR ARVB 12"x12"x8" RECESSED ACCESS CABINET, BOTTOM 60" ABOVE FINISHED FLOOR. EXTEND 3/4" HW, CW THRU TOP OF DOOR AND PROVIDE ASCO SERIES 210 SOLENOID OPERATED BALL VALVES. VALVES SET FOR NORMALLY CLOSED ON DEACTIVATION FOR CONTROL OF WATER FLOW. PROVIDE SWITCH ON WALL WITH BAKE-LITE TAG "DECON SHOWER VALVE SWITCH" EXTEND PIPING TO BELOW FLOOR AS NOTED ABOVE.
- 15 EXISTING 4" WASTE PIPING FROM ABOVE.
- 16 REPLACED EXISTING MEDICAL HEAD WALL UNIT. CONNECT TO EXISTING MEDICAL GAS PIPING. COORDINATE LOCATION WITH OWNER AND ADJUST AS NECESSARY FOR CODE COMPLIANT INSTALLATION.
- 17 CONNECT NEW 1" VAC TO EXISTING 1 1/2" HEADER. PROVIDE BALL VALVE AT CONNECTION OF NEW TO EXISTING.
- 18 NEW OXYGEN(O), VACUUM (V) DOWN TO NEW HEADER. INSTALL PER MFRS INSTRUCTIONS ON HEADER. LOCATION OF HEADER SHALL BE COORDINATED WITH OWNER PRIOR TO CONSTRUCTION.
- 19 CONNECT NEW O (OXYGEN) TO EXISTING PIPING.
- 20 CONNECT TO EXISTING OXY (OXYGEN) AND V (VACUUM) PIPING.
- 21 PROVIDE BRADLEY S19-200B EMERGENCY EYE WASH FAUCET.
- 22 4" ROOF DRAIN LINE (RDL) DOWN AND TURN OUT AT GRADE OR PAVEMENT. PROVIDE DOWNSPOUT NOZZLE AND IDENTIFY AS "STORM DRAIN LINE". IDENTIFICATION SHALL BE WITH BAKELITE TAG SECURED TO WALL WITH SCREWS.
- 23 4" EMERGENCY DRAIN LINE (ERDL) DOWN AND TURN OUT AT GRADE OR PAVEMENT. PROVIDE DOWNSPOUT NOZZLE AND IDENTIFY AS "EMERGENCY STORM DRAIN LINE. MAINTENANCE REQUIRED" IDENTIFICATION SHALL BE WITH BAKE-LITE TAG SECURED TO WALL WITH SCREWS.
- 24 1/2" HW, CW DOWN
- 25 3/4" CW, HW DOWN. PROVIDE 1/2" HW, CW TO EACH SINK.
- 26 EXISTING HOT WATER SERVING LAVATORIES SHALL BE CAPPED. PROVIDE NEW POINT OF USE WATER HEATER AT EACH LAVATORY. CONNECT 1/2" CW TO WATER HEATER AND PROVIDE NEW HW TO LAVATORY FAUCET.



1 PLUMBING PLAN
P2.0 SCALE: 1/8" = 1' - 0"



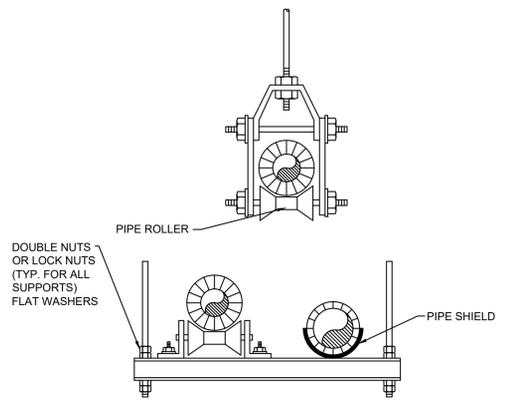
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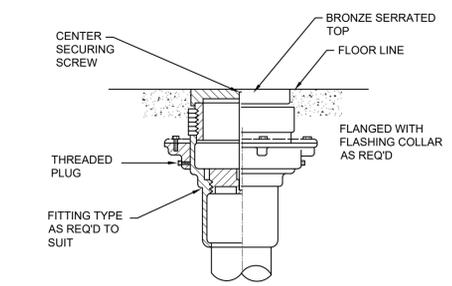
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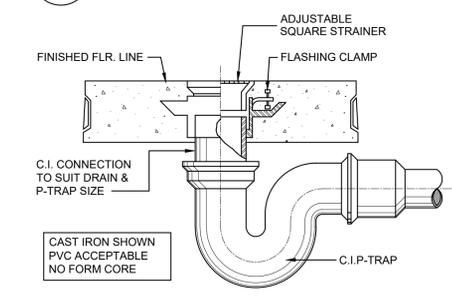
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PROJECT DATE: 2/14/24
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APPROVED BY: CAB
SCHEDULE OF REVISIONS



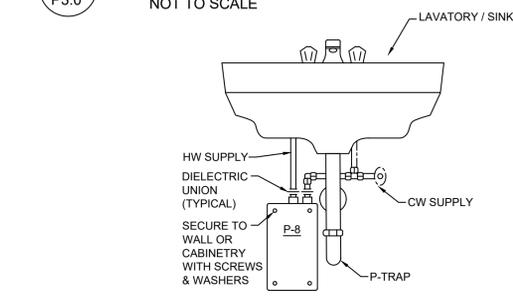
1 PIPING HANGERS AND SUPPORT DETAILS
P3.0 NOT TO SCALE FOR PIPE LARGER THAN 2 1/2"



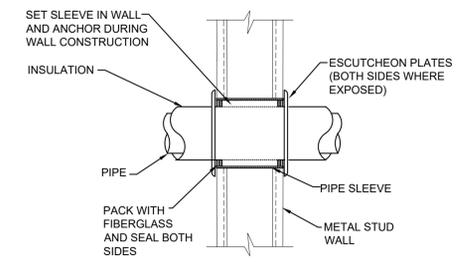
2 INTERIOR CLEANOUT DETAIL
P3.0 NOT TO SCALE



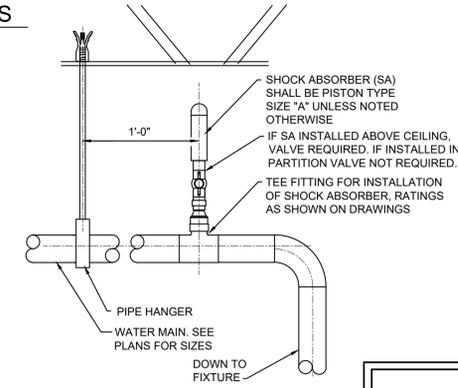
3 TYPICAL FLOOR DRAIN DETAIL
P3.0 NOT TO SCALE



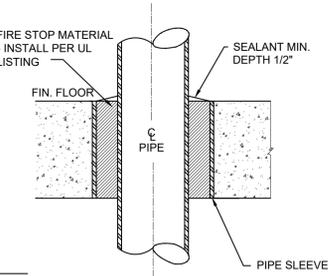
4 P.O.U. WATER HEATER UNDER SINK DETAIL
P3.0 NOT TO SCALE



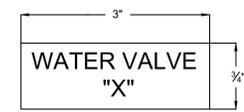
5 PIPE SLEEVE THRU INTERIOR WALL DETAIL
P3.0 NOT TO SCALE



6 SHOCK ABSORBER DETAIL
P3.0 NOT TO SCALE

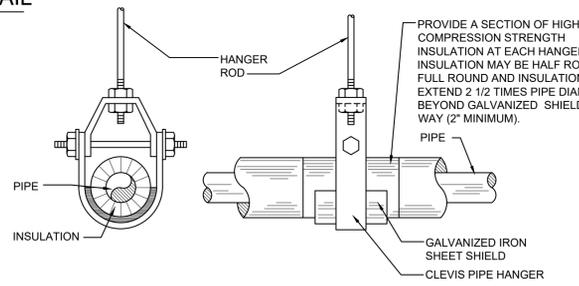


7 PIPE THRU SLAB DETAIL
P3.0 NOT TO SCALE



WHITE BAKELITE PLATE WITH BLACK 1/2" LETTERS. PROVIDE AT EACH VALVE LOCATION. CONTRACTOR SHALL INDICATE VALVE NUMBER AND TAG WITH LOCATIONS ON FINAL AS BUILT DOCUMENTS. TAG SHALL BE SECURED TO CEILING 'T-BAR' WITH POP RIVETS.

8 VALVE TAG DETAIL
P3.0 NOT TO SCALE



9 PIPE HANGER DETAILS
P3.0 NOT TO SCALE FOR PIPE 2 1/2" AND SMALLER

PLUMBING LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
-----	VENT	-----	COLD WATER
VTR	VENT THRU ROOF	-----	HOT WATER
SA PDI "X"	SHOCK ABSORBER	-----	WASTE OR SANITARY SEWER
CO	CLEANOUT	TYP.	TYPICAL
ED	FLOOR DRAIN	⊕	CHECK VALVE
(NE)	NEW TO EXISTING	⊖	BALL VALVE
MA	MEDICAL AIR PIPING	○	OXYGEN PIPING
V	VACUUM PIPING	----- EV	EXISTING VENT PIPING
----- ESS	EXISTING SANITARY SEWER	----- EHW	EXISTING HOT WATER
----- ECW	EXISTING COLD WATER	----- EOXY	EXISTING OXYGEN
----- EVAC	EXISTING VACUUM	----- EMA	EXISTING MEDICAL AIR
RDL	ROOF DRAIN LINE	----- EHW	EXISTING HOT WATER CIRCULATING
ERDL	EMERGENCY ROOF DRAIN LINE	ECO	EXISTING CLEAN OUT

PLUMBING FIXTURE SCHEDULE							
SYM	FIXTURE	PIPE SIZES				RIM HGT/ MTG HGT	DESCRIPTION (SLOAN REFERENCED)
		W	V	CW	HW		
P-1	WATER CLOSET H/C	4"	2"	1"	--	ADA	WHITE HALL MODEL WH2142-ADA-T-3-EGE-10-10 FLOOR OUTLET WH-LRSC-WHITE SEAT. WH2802-SLPT-ADA SERIES FLUSH VALVE & BOX ①
P-2	LAVATORY H/C (WALL MTD)	2"	2"	1/2"	1/2"	ADA	WHITE HALL WHD-BSN 3 HOLE: T&S B0892 FAUCET GRID DRAIN; WASTE ARM; SUPPLIES STOPS AND WASTE ARM; CONTROLS TZV2 SET AT 110" ②
P-3	SINK	2"	2"	1/2"	1/2"	DECK	JUST SL17519-A-J; T&S B0892 FAUCET J-ADA-25 DRAIN 7" DEEP. WASTE; STOPS, AND SUPPLIES. CONTROLS TZV2 SET AT 110"
P-4	BREAK ROOM SINK	2"	2"	1/2"	1/2"	DECK	JUST DL1933A-J-0-901 FAUCET. DRAIN 7" DEEP. WASTE; STOPS, AND SUPPLIES. CONTROLS TZV2 SET AT 110"
P-5	ICE MAKER BOX	--	--	1/2"	--	BOTT 6"	OATEY 38574 SERIES
P-6	DECON SHOWER	2"	2"	1/2"	1/2"	HEAD 6'-0"	ACORN MODEL S2200FRV FREEZE PROOF SHOWER HEAD; PROVIDE ET71-2-BVS-OTG MIXING VALVE.
P-7	SINK	2"	2"	1/2"	1/2"	DECK	JUST SL17519-A-J; BRADLEY S19-200B FAUCET J-ADA-25 DRAIN 7" DEEP. WASTE; STOPS, AND SUPPLIES. CONTROLS TZV2 SET AT 110"
P-8	P.O.U WATER HEATER	--	--	1/2"	1/2"	UNDER SINK	CHROMOMITE SR-15L/120: 1800 WATTS, 120V / 1Ø , .97 EFF.
DS-1	DOWNSPOUT NOZZLE	4	--	--	--	--	J.R. SMITH 1770 SERIES
WH-1	WALL HYDRANT	--	--	3/4"	--	--	J.R. SMITH 5519 SERIES
FD-1	FLOOR DRAIN (GENERAL)	3"	--	--	--	--	J.R. SMITH 2005Y-B ③ ④
FD-2	FLOOR DRAIN (MECH)	3"	--	--	--	--	J.R. SMITH 2005Y-1-F37 ③ ④
CO-1	CLEAN OUT INTERIOR	4"	--	--	--	--	J.R. SMITH 4043S
HB-1	OUTDOOR HOSE BIBB FOOT WASH	--	--	3/4"	--	--	J.R. SMITH 5630-06, VERIFY WALL THICKNESS AT SHOWERS.
RD	ROOF DRAIN	4"	--	--	--	--	J.R. SMITH 1015Y-R-C-U-AD
ERD	EMERGENCY ROOF DRAIN	4"	--	--	--	--	J.R. SMITH 1045Y-R-C-U-AD

PLUMBING FIXTURE KEY NOTES:

- MOUNT AT ADA HEIGHT. ADA SHALL CONFORM TO ACCESSIBILITY CODE. REFER TO CODE FOR GUIDANCE. WHERE CONFLICTS ARISE BETWEEN ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS, ARCHITECTURAL DRAWING SHALL GOVERN.
- PROVIDE PROTECTIVE PIPE COVERS FOR ALL HANDICAP LAVATORIES
- PROVIDE 7" STRAINER ON 3" DRAIN AND 9" STRAINER ON 4" DRAINS. PROVIDE SUFFIX "M" (SQUARE TOP) FOR QUARRY TILE AND CERAMIC TILE FLOORS AND SUFFIX "A" (ROUND TOP) FOR ALL OTHER FLOORS.
- PROVIDE TRAP GUARDS ON ALL HUB DRAINS AND FLOOR DRAINS. IF APPROVED BY LOCAL AHJ. IF NOT APPROVED PROVIDE TRAP PRIMERS

GENERAL PLUMBING NOTES

. PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED). EXACT LOCATION SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THEIR WORK WITH THAT OF OTHER TRADES AND ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK. RISERS FOR FIXTURES, UNLESS OTHERWISE NOTED, SHALL BE CONCEALED IN WALLS OR PIPE CHASES.

MINIMUM SIZE WATER LINE FOR ANY TWO FIXTURES SHALL BE 3/4". REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL FIXTURE RUNOUT SIZES.

PROVIDE SLEEVES PER IPC REQUIREMENTS FOR PIPE PASSING THRU FLOOR, MASONRY WALLS AND FIRE OR SMOKE PARTITIONS. PACK ANNULAR SPACE BETWEEN PIPE WITH MATERIAL APPROVED IN U.L. BUILDING DIRECTORY OR AS DIRECTED BY IPC OR IBC REQUIREMENTS.

REFER TO ARCHITECTURAL FINISH SCHEDULE AND ELEVATIONS FOR DETAILS OF FLOOR WHERE FLOOR DRAINS ARE TO BE INSTALLED.

IT SHALL BE CONTRACTORS RESPONSIBILITY TO COORDINATE THIS INSTALLATION WITH THAT OF OTHER TRADES TO ENSURE COMPLETE INSTALLATION. CONTRACTOR SHALL VERIFY ROUTING OF ALL PIPING AND ADJUST AS NECESSARY TO AVOID CONFLICTS WITH THAT OF OTHER TRADES AND OR STRUCTURAL MEMBERS.

BID

PROJECT NUMBER: 2235
PROJECT DATE: 2/14/24
DRAWN BY: RFS
APPROVED BY: CAB

SCHEDULE OF REVISIONS

PLUMBING SCHEDULE, LEGEND, NOTES, AND DETAILS

P3.0



**EMERGENCY DEPT. RENOVATION
EMANUEL MEDICAL CENTER
SWAINSBORO, GEORGIA**

PLUMBING SPECIFICATIONS:

GENERAL:

- A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS APPLY TO THIS SECTION
- B. PLUMBING WORK SHALL BE PERFORMED AS OUTLINED BELOW
- C. THESE SPECIFICATIONS AND ACCOMPANYING PLUMBING DRAWINGS ARE INTENDED TO PROVIDE FOR ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION COMPLETE OF ALL PLUMBING FIXTURES, EQUIPMENT, ROUGH-INS, WASTE VENT SYSTEMS, COLD WATER SYSTEMS, HOT WATER SYSTEMS AND ACCESSORIES INCLUDING NECESSARY APPARATUS, VALVES AND FITTINGS HEREINAFTER DESCRIBED OR CALLED FOR ON THE PLUMBING DRAWINGS ACCOMPANYING THESE SPECIFICATIONS. WHERE CONFLICTS ARISE BETWEEN ARCHITECTURAL DRAWINGS AND PLUMBING DRAWINGS, CONTRACTOR SHALL COORDINATE CORRECT CONFIGURATION AND ADJUST AS NECESSARY FOR COMPLIANT INSTALLATION.
- D. ALL PLUMBING WORK SHALL BE INSTALLED WITH IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE LATEST ADDITION OR IN COMPLIANCE WITH AUTHORITY HAVING JURISDICTION REQUIREMENTS.
- E. THE CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTION FEES NECESSARY FOR THIS WORK.
- F. THE ACCOMPANYING DRAWINGS ARE SCHEMATIC ONLY AND ARE NOT INTENDED TO SHOW ALL FITTINGS, BOLTS, CONNECTIONS, OFFSETS, ETC., UNLESS SPECIFICALLY SHOWN. FOLLOW DRAWINGS AS CLOSELY AS POSSIBLE, PROVIDE ALL ADJUSTMENTS AS NECESSARY TO CONFORM TO THE STRUCTURAL CONDITIONS, EQUIPMENT, WORK OF OTHER TRADES AND THE INTENT OF THE DRAWINGS. WITHOUT COST TO THE OWNER, PLUMBING DRAWINGS SHOULD NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO DRAWINGS OF OTHER TRADES AND COORDINATE. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SCOPE OF WORK:

- A. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL OF THE FOLLOWING WORK IN GENERAL AND PROVIDING A COMPLETE PLUMBING SYSTEM AS SHOWN ON THE PLANS. THE ITEMS IN GENERAL ARE TO BE AS FOLLOWS:
 - 1. FURNISH AND INSTALL COMPLETE WASTE AND VENT SYSTEM WITH CONNECTIONS TO SERVICES AS SHOWN ON THE PLUMBING DRAWINGS AND HEREIN SPECIFIED.
 - 2. FURNISH AND INSTALL HOT WATER SYSTEM COMPLETE WITH CONNECTIONS TO POINT AS SHOWN ON THE PLUMBING DRAWINGS AND HEREIN SPECIFIED.
 - 3. FURNISH AND INSTALL COLD WATER SYSTEM COMPLETE WITH CONNECTIONS TO POINT AS SHOWN ON THE PLUMBING DRAWINGS AND HEREIN SPECIFIED.

CONNECTION TO EXISTING UTILITIES:

- A. EXISTING UTILITIES SHOWN ARE APPROXIMATE AND SHALL NOT BE DETERMINED TO BE EXACT CONNECTION LOCATIONS. CONTRACTOR MUST VERIFY EXACT LOCATIONS, SIZES, INVERTS, AND CONDITION OF EXISTING UTILITIES PRIOR TO CONNECTIONS. FAILURE TO ACCURATELY LOCATE AND IDENTIFY EXISTING UTILITIES SHALL NOT INCUR ADDITIONAL COST FOR REPAIRS OR RECONNECTIONS OF NEW TO EXISTING UTILITIES.

LIST OF MATERIALS, FIXTURES, AND EQUIPMENT:

- A. THE PLUMBING CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER/ ARCHITECT FOR THE USE OF SUBSTITUTE MATERIALS CLAIMED AS EQUAL TO THOSE SPECIFIED. SUCH APPROVAL MUST BE OBTAINED AS SOON AFTER CONTRACT AWARDS AS POSSIBLE AND BEFORE ANY MATERIALS ARE ORDERED. APPLICATIONS FOR APPROVAL SHALL BE MADE BY THE PLUMBING CONTRACTOR ONLY AND NO OTHER APPLICATIONS SHALL BE ACCEPTED. THE PLUMBING CONTRACTOR SHALL SUBMIT FOR APPROVAL WITHIN TEN (10) DAYS FOLLOWING AWARD OF CONTRACT AND WRITTEN NOTICE TO BEGIN THE WORK A COMPLETE LIST OF MATERIALS PROPOSED FOR THE JOB. ALL LIKE ITEMS SHALL BE BY ONE MANUFACTURER. NO FURTHER SUBSTITUTIONS SHALL BE ACCEPTED AFTER APPROVED BY ENGINEER / ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL COST ASSOCIATED WITH INSTALLATION OF UNAPPROVED FIXTURES AND REMOVAL AND REPLACEMENT OF SUCH AT NO COST TO OWNER.
- B. THE PLUMBING CONTRACTOR SHALL SUBMIT AN ELECTRONIC SET OF SHOP DRAWINGS TO THE ARCHITECTS WITHIN 20 DAYS AFTER AWARD OF THE CONTRACT, AND BEFORE ANY MATERIALS, FIXTURES, AND EQUIPMENT TO BE INCORPORATED IN THE WORK HAS BEEN ORDERED. SHOP DRAWINGS SHALL INCLUDE THE NAME AND ADDRESS OF THE MANUFACTURER AND THEIR CATALOG NUMBERS AND TRADE NAMES CLEARLY MARKED. ALL ITEMS SHALL BE REFERENCED TO THE PLANS AND SPECIFICATIONS BY FIXTURE NUMBER. SUBMIT SHOP DRAWINGS AND / OR CATALOG DATA FOR THE FOLLOWING:
 - 1. WASTE PIPING, FITTINGS AND COUPLINGS
 - 2. WATER PIPING, FITTINGS AND EQUIPMENT
 - 3. GATE VALVES, BALL VALVES, PLUG VALVES, BACK FLOW PREVENTERS
 - 4. VENT CAPS
 - 5. EMERGENCY DRAIN PANS
 - 6. PIPING INSULATION
 - 7. HANGER SUPPORTS AND HANGERS
 - 8. FIXTURES
- C. APPROVAL OF SHOP DRAWINGS AND / OR SUBMITTED DATA SHALL NOT RELIEVE THE PLUMBING CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS WITH REGARD TO DIMENSIONS, CAPACITIES, QUALITY, QUANTITY, PERFORMANCE CHARACTERISTICS, ETC. IF DATA SUBMITTED DEVIATES FROM THE CONTRACT DOCUMENTS, THE PLUMBING CONTRACTOR SHALL POINT OUT SUCH DEVIATIONS IN WRITING AND ALSO STATE REASONS FOR SAME.
- D. FIXTURES:
 - 1. WATER CLOSETS, URINALS, LAVATORIES, SINKS, MOP SINKS, FLUSH VALVES, AND FAUCETS SHALL BE ALL ONE MANUFACTURER AND SHALL BE EQUALS OF AMERICAN STANDARD, KOHLER SLOAN, ZURN, SYMMONS, ELKAY, DAYTON. ENGINEERING APPROVAL FOR OTHERS NOT LISTED SHALL BE REQUIRED.

DEMOLITION:

- A. GENERAL REQUIREMENTS: THE WORK INCLUDES THE DEMOLITION OR REMOVAL OF ALL CONSTRUCTION IDENTIFIED ON DRAWINGS NECESSARY TO ACCOMPLISH THE WORK. THE DRAWINGS DEFINE THE SCOPE OF THE WORK BUT IT IS NOT INTENDED THAT ALL ITEMS OF DEMOLITION WORK BE SPECIFICALLY INDICATED. AFTER CAREFULLY REVIEWING THE CONTRACT DRAWINGS AND SPECIFICATIONS TO DETERMINE THE INTENT, THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF DEMOLITION WORK REQUIRED TO PROPERLY COMPLETE THE WORK UNDER THIS CONTRACT.
- B. PROTECTION OF MATERIALS AND WORK: BEFORE BEGINNING ANY CUTTING OR DEMOLITION WORK, THE CONTRACTOR SHALL CAREFULLY SURVEY THE EXISTING WORK AND EXAMINE THE DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF WORK REQUIRED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE AGAINST DAMAGE TO EXISTING WORK TO REMAIN IN PLACE, TO BE REUSED, OR TO REMAIN THE PROPERTY OF THE OWNER AND ANY DAMAGE TO SUCH WORK SHALL BE REQUIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

WORKMANSHIP:

- A. LAYOUT:
 - 1. DRAWINGS INDICATE GENERAL LOCATIONS OF FIXTURES. EXACT LOCATIONS SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
 - 2. FURNISH AND INSTALL ALL NECESSARY SLEEVES, INSERTS, BOLTS, ETC., FOR CONCRETE FLOOR SLABS, ROOF, WALLS, AND PARTITIONS. FAILURE TO INSTALL SUCH ITEMS IN TIME TO AVOID DELAYING THE GENERAL CONTRACTOR SHALL RESULT IN THE CONTRACTOR DOING ANY NECESSARY CUTTING AND REPAIRING AT HIS EXPENSE.
 - 3. SLEEVES AS HEREINAFTER SPECIFIED SHALL BE INSTALLED ON ALL THROUGH THE FLOOR PIPING ABOVE SLAB ON GRADE EXCEPT WATER CLOSET ROUGH-INS. WATER CLOSET ROUGH-INS SHALL BE CAST IN PLACE. CORE DRILLING OF SLABS SHALL BE SEALED WITH APPROVED FIRE RETARDANT CAULKING AND SEALED WATERTIGHT.
 - 4. ALL FIXTURES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- B. DRAINAGE, WASTE, AND VENT PIPING:
 - 1. SLOPE ALL LINES 2" AND SMALLER AT 1/4" / FOOT
 - 2. SLOPE ALL LINES 3" AND LARGER AT 1/8" / FOOT
 - 3. RUN ALL PIPING AS DIRECTLY AS POSSIBLE, AVOIDING UNNECESSARY BENDS AND TURNS SO AS NOT TO INTERFERE WITH PROPER INSTALLATION.
 - 4. TAPPED TEES AND CROSSES WILL NOT BE PERMITTED. TAPPED SANITARY TEES AND CROSSES SHALL BE USED.
- C. WATER SYSTEM:
 - 1. CONCEAL WATER SUPPLY IN WALLS, BELOW FLOOR OR ABOVE CEILING EXCEPT WHERE EXPOSED FOR CONNECTIONS TO FIXTURES OR OTHERWISE INDICATED.
 - 2. ALL WATER PIPING SHALL BE ROUTED WITH A MINIMUM CLEARANCE OF TEN (10) FEET FROM ANY ELECTRICAL SWITCHBOARDS, PANEL BOARDS OR TELEPHONE BACKBOARDS.
 - 3. ALL SUPPLY TO FIXTURES SHALL HAVE INDIVIDUAL STOP VALVES
 - 4. PROVIDE WATER HAMMER SHOCK ARRESTORS (PD) AS REQUIRED OR AS SHOWN TO PREVENT WATER HAMMER. ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND AS DETAILED ON CONTRACT DRAWINGS. MANUFACTURERS OF URN, JOAN, J.R. SMITH SHALL BE ACCEPTABLE. PROVIDE 12" X 12" ACCESS DOORS FOR ALL SHOCK ARRESTORS INSTALLED ABOVE HARD CEILINGS.
 - 5. ALL EXPOSED PIPING TO FIXTURES SHALL BE CHROME PLATED.
 - 6. INSULATE ALL WATER PIPING INSIDE BUILDING AND HEREINAFTER SPECIFIED.
- D. INSULATION:
 - 1. ALL PIPE INSULATION JOINTS SHALL BE SEALED TO MAINTAIN INTEGRITY OF THE VAPOR JACKET AND SHALL PASS THRU ALL SLEEVES UNBROKEN EXCEPT FOR FIRE STOPS.
 - 2. PIPE INSULATION AT ALL FIRE SEPARATIONS SHALL BE BUTTED TIGHTLY TO THE FIREWALL OR TO THE FLOOR AFTER FIRE STOP MATERIAL HAS BEEN INSTALLED.

CUTTING, PATCHING, AND CHASING:

- A. ALL CUTTING AND PATCHING SHALL BE GENERAL CONDITIONS OF THE ARCHITECTURAL SPECIFICATIONS. PLUMBING CONTRACTOR SHALL CUT ALL FLOORS NECESSARY TO INSTALL ALL PIPING AND SHALL REPAIR FLOOR TO MATCH THAT OF EXISTING.

WASTE, VENT AND ROOF DRAIN PIPING:

- A. PIPING:
 - 1. WASTE, VENT AND ROOF DRAIN PIPING SHALL BE SCHEDULE 40 PVC-DWV SOLID WALL PIPING CONFORMING TO ASTM D-2665-08 AND C.S. 272-05 WITH NS SEAL. NO FOAM CORE PIPING WILL BE ACCEPTABLE.
 - 2. PIPING SLEEVES SHALL BE SCHEDULE 40 PVC-DWV OR CAST IRON SOLID WALL AS IDENTIFIED AS ABOVE BUT SHALL BE ONE PIPE DIAMETER LARGER FILLED WITH FIRESTOP MATERIAL FOR FIRE WALLS.
- B. FITTINGS:
 - 1. FITTINGS FOR PVC-DWV PIPING SHALL BE PVC-DWV FITTINGS CONFORMING TO PIPING SPECIFICATIONS LISTED ABOVE.
- C. JOINTS:
 - 1. JOINTS FOR PVC-DWV PIPING SHALL BE MADE USING PIPING MANUFACTURERS APPROVED SOLVENT CEMENT.
 - 2. ANY FLASHING OF PLUMBING VENTS IF USED SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND SHALL BE COORDINATED WITH SUCH.

HOT AND COLD WATER SYSTEMS

- A. WATER PIPING:
 - 1. WATER PIPING 4" AND SMALLER ABOVE GRADE INSIDE BUILDING SHALL BE TYPE "L" HARD COPPER CONFORMING ASTM B-88
- B. FITTINGS:
 - 1. FITTINGS FOR COPPER PIPING SHALL BE WROUGHT COPPER, SOLDER JOINT FITTINGS CONFORMING TO ANSI B 16.22
- C. JOINTS:
 - 1. ALL COPPER PIPING JOINTS, 1 1/4" AND SMALLER SHALL BE MADE USING LEAD FREE SOLDER WITH A MINIMUM MELTING POINT OF 410 DEGREES FAHRENHEIT.
 - 2. ALL COPPER PIPING JOINTS, 1 1/2" AND LARGER SHALL BE MADE USING SIL-PHOS-COPPER SILVER ALLOY MATERIAL WITH A MINIMUM MELTING POINT OF 1000 DEGREE F.

MED GAS PIPING:

- A. MEDICAL GAS (MED-GAS) DISTRIBUTION SHALL BE SUPPLIED BY PIPE DROPS VIA SERVICE CHASE OR SINGLE POINT TERMINATION AS INDICATED ON DRAWINGS. ALL MEDICAL GAS OUTLETS AND PIPING SHALL BE TESTED IN ACCORDANCE WITH NFPA 99 SECTIONS FOR INSTALLATION AND TESTING. MEDICAL GAS PIPING SHALL BE TYPE LISTED IN CHAPTER 5 OF NFPA 99. ASTM B88, B280 AND B819 SHALL BE REVIEWED FOR ALL INSTALLATION PIPING MATERIAL AND SHALL BE INSTALLED BY QUALIFIED PIPING INSTALLERS FOR MEDICAL GAS INSTALLATION. UNDER NO CIRCUMSTANCES SHALL THE PLUMBING CONTRACTOR INSTALL ANY MEDICAL GAS PIPING UNLESS THEY HAVE UP TO DATE NFPA 99 QUALIFICATIONS FOR INSTALLATION OF MEDICAL GAS PIPING AND COMPONENTS.

CLEANOUTS:

- A. CLEANOUT INSTALLED IN FLOORS AND WALKS SHALL HAVE ADJUSTABLE CAST IRON BODY WITH CAST BRASS PLUG, LEAD SEAL AND SQUARE NICKEL BRONZE TOP WITH WATERTIGHT CASKETS COVER. CLEANOUTS SHALL BE J.R. SMITH, JOSAM, ZURN OR ENGINEERING APPROVED EQUAL.

VALVES:

- A. VALVES SHALL BE INSTALLED AS NOTED ON CONTRACT DOCUMENTS. EXISTING VALVES IN PLACE SHALL BE VERIFIED FOR SAFE OPERATIONS AND SHALL BE REPLACED WITH THAT OF NEW IF DETERMINED TO BE UN-USABLE.
- B. DOMESTIC COLD AND HOT WATER SYSTEM VALVES 1 1/4" AND SMALLER SHALL BE CAST BRONZE BODY, FULL PORTED, SOLDERED END GATE VALVES RATED FOR CLASS 150, 200 WOG SERVICES. DOMESTIC COLD AND HOT WATER SYSTEMS VALVES 1 1/2" AND 2" SHALL BE CAST BRONZE, FULL PORTED, THREADED END GATE VALVES RATED FOR CLASS 150, 200 WOG SERVICES. VALVES SHALL BE PROVIDED WITH STEM EXTENSION FOR INSULATION THICKNESS SPECIFIED. VALVES SHALL BE NIBCO OR JENKINS. VALVE NOT LISTED SHALL REQUIRE ENGINEERING APPROVED EQUAL.

PIPE INSULATION:

- A. ALL PLUMBING PIPE INSULATION SYSTEMS, INCLUDING JACKETING, COVERINGS, ADHESIVES WHEN USED, SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING TWENTY-FIVE (25) AND A SMOKE DEVELOPMENT RATING NOT EXCEEDING FIFTY (50) WHEN THE INSULATION ASSEMBLY IS TESTED AS COMPOSITE.
 - 1. INSULATE ALL COLD AND HOT WATER PIPING IN ACCORDANCE WITH IECC 2015 ADDITION
 - 2. COLD WATER PIPING: INSULATION SHALL BE 1/2" FOR PIPING BELOW 1 1/2" DIAMETER AND 1 1/2" FOR PIPING ABOVE 1 1/2" DIAMETER
 - 3. HOT WATER PIPING: INSULATION SHALL BE: 1" FOR PIPING BELOW 1 1/2" DIAMETER, AND 1 1/2" FOR PIPING ABOVE 1 1/2" DIAMETER
 - 4. ALL PIPE INSULATION FOR PIPE FITTINGS SHALL BE PRE-MOLDED TO FIT FITTINGS AND SHALL BE ENCLOSED UNDER PRE-MOLDED PVC FITTING JACKET.

HANGERS:

- A. HANGERS FOR HORIZONTAL PIPING SHALL BE CLEVIS TYPE AND SHALL BE MANUFACTURED BY MODERN, ANVIL OR ENGINEERING APPROVED EQUAL.
- B. HANGERS FOR INSULATED PIPING SHALL EXTEND AROUND INSULATION. PROVIDE 16 GAGE GALVANIZED STEEL INSULATION PROTECTION SADDLES 12" LONG AT EACH HANGER ON ALL INSULATED LINES.
 - PIPE SIZE 1 1/2" AND SMALLER 6'-0" O.C. 2" AND LARGER 10'-0"
- C. A HANGER SHALL BE PROVIDED WITHIN ONE (1) FOOT OF EACH BEND IN HORIZONTAL PIPING. VERTICAL PIPING SHALL BE SUPPORTED AT EACH FLOOR OR AT INTERVALS NOT EXCEEDING TEN (10) FEET.
- D. HANGERS SHALL BE FASTENED BY MEANS OF THREADED RODS TO STEEL BEAM CLAMPS, CENTER OF BAR JOIST, CENTER OF TRUSSES, ETC. ALL HANGERS SHALL PERMIT ADEQUATE ADJUSTMENT AFTER ERECTION WHILE STILL SUPPORTING THE LOAD.

PROTECTION OF WORK AND EQUIPMENT:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WORK DAMAGED DURING CONSTRUCTION. ANY PLUMBING WORK DAMAGED BY ANY OTHER CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AND IN PERFECT WORKING CONDITION WITHOUT EXTRA COST TO THE OWNER. ALL FIXTURES AND FITTINGS SHALL BE ADEQUATELY PROTECTED BEFORE, DURING AND AFTER INSTALLATION.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PLUMBING FIXTURES AT TIME OF FINAL INSPECTION. ANY BROKEN FIXTURES WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER REGARDLESS OF BY WHOM THE FIXTURE WAS BROKEN.

TESTING:

- A. THE CONTRACTOR SHALL NOTIFY ENGINEER TWENTY FOUR (24) HOURS IN ADVANCE OF ALL TESTING. THE CONTRACTOR SHALL MAKE ALL NECESSARY PRELIMINARY TEST TO INSURE A TIGHT SYSTEM. ANY JOINTS FOUND TO LEAK UNDER PRESSURE SHALL BE CLEANED AND REMADE.
- B. ALL SANITARY WASTE, AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) REQUIREMENTS.
- C. ALL WATER PIPING HOT AND COLD SHALL BE TESTED IN ACCORDANCE WITH INTERNATIONAL PLUMBING CODE (IPC) REQUIREMENTS.
- D. CONTRACTOR SHALL FURNISH ALL EQUIPMENT NECESSARY TO PERFORM TEST IN ACCORDANCE WITH CODE REQUIREMENTS.

STERILIZATION:

- A. WATER PIPING SHALL BE CHARGED WITH A CHLORINE SOLUTION CONTAINING NOT LESS THEN 50-PPM AVAILABLE CHLORINE. THE SOLUTION SHALL REMAIN IN PIPING FOR A MINIMUM PERIOD OF 6 HOURS, DURING WHICH TIME VALVES SHALL BE OPENED AND CLOSED TO PERMIT A SMALL FLOW OF THE SOLUTION. AT END OF SIX (6) HOURS THE SOLUTION SHALL BE TESTED AND MUST CONTAIN A RESIDUAL OF AT LEAST 5 TO 10 PPM. THE SYSTEM SHALL THEN BE DRAINED AND FLUSHED TO PROVIDE SATISFACTORY POTABLE WATER BEFORE FINAL CONNECTION IS MADE TO THE EXISTING DISTRIBUTION SYSTEM.
- B. THE CONTRACTOR SHALL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY FOR A CERTIFICATION LETTER THAT THE SYSTEM STERILIZATION MEETS OR EXCEEDS STANDARDS FOR POTABLE WATER.

PLACING IN SERVICE:

- A. UPON COMPLETION OF THE ENTIRE SYSTEM INSTALLATION, THE ENTIRE SYSTEM AND EQUIPMENT SHALL BE TESTED BY ACTUAL OPERATIONS TO PROVIDE THAT ALL FIXTURES OPERATE AS INTENDED.
- B. THE CONTRACTOR SHALL FLUSH ALL WASTE PIPING PRIOR TO FINAL CONNECTION TO EXISTING SYSTEM, TO ENSURE THAT NO FOREIGN MATERIALS ARE IN THE LINES, AND CONTINUOUS FLOW OF WATER AND WASTE CAN BE AFFECTED.
- C. THE CONTRACTOR SHALL FLUSH ALL WATER PIPING PRIOR TO THE CONNECTION OF FLUSH VALVE, AND FAUCET AERATORS TO PROVIDE A CLEAN AND OPERATIONAL WATER SYSTEM.
- D. THE CONTRACTOR SHALL PLACE THE ENTIRE SYSTEM IN A SATISFACTORY OPERATING CONDITION AND SHALL FURNISH ALL ASSISTANCE AND INSTRUCTIONS REQUIRED.
- E. IT IS THE CONTRACTORS RESPONSIBILITY TO INSURE ALL FLOOR DRAINS AND CLEANOUTS ARE IN A CLEAN CONDITION.

2023-130



BID
PROJECT NUMBER: 2235 PROJECT DATE: 2/14/24 DRAWN BY: RFS APPROVED BY: CAB
SCHEDULE OF REVISIONS

PLUMBING
SPECIFICATIONS

P4.0

LEGEND

LIGHTING AND POWER

CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL CONTAINING 3 NUMBER 12 CONDUCTORS UNLESS SHOWN OTHERWISE, HASH MARKS, IF SHOWN, INDICATE QUANTITY OF NUMBER 12 CONDUCTORS. WHERE DRAWING SPACE PROHIBITS HASH MARKS BEING SHOWN REFER TO CIRCUIT NUMBERS AND PROVIDE REQUIRED NUMBER OF CONDUCTORS PER CIRCUIT TYPE.

CONDUIT RUN CONCEALED IN OR BELOW FLOOR SLAB, OR UNDERGROUND.

HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARDS, NUMBERS INDICATE CIRCUIT NUMBERS.

EXPOSED CONDUIT RUN.

L.E.D. LIGHTING FIXTURE, "2" INDICATES THE CIRCUIT NUMBER AND "E" THE FIXTURE TYPE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.

EMERGENCY L.E.D. LIGHTING FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS, MOUNTING TYPE AND BATTERY PACK INFORMATION (IF APPLICABLE).

L.E.D. FIXTURE, SURFACE OR STEM MOUNTED.

L.E.D. TROFFER FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.

EMERGENCY L.E.D. TROFFER. SEE FIXTURE SCHEDULE FOR DIMENSIONS, MOUNTING TYPE AND BATTERY PACK INFORMATION (IF APPLICABLE).

EMERGENCY L.E.D. FIXTURE CONNECTED TO "CRITICAL" POWER.

L.E.D. LIGHTING FIXTURE, SURFACE WALL BRACKET MOUNTED. MOUNTING HEIGHT AS NOTED. SEE FIXTURE SCHEDULE FOR BATTERY PACK INFORMATION (IF APPLICABLE).

EXIT LIGHT

JUNCTION BOX LOCATED ABOVE CEILING OR BELOW GRADE.

DUPLEX HOSPITAL GRADE CONVENIENCE OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED. "5" INDICATES THE CIRCUIT NUMBER.

DUPLEX HOSPITAL GRADE CONVENIENCE OUTLET MOUNTED ABOVE COUNTER, AT +46" TO CENTERLINE OF OUTLET.

DUPLEX HOSPITAL GRADE CONVENIENCE OUTLET, GFI TYPE, +18" TO CENTER LINE UNLESS OTHERWISE NOTED. "WP" WHERE SHOWN INDICATES WEATHER-RESISTENT DEVICE WITH METAL IN-USE WEATHERPROOF COVER.

DUPLEX HOSPITAL GRADE CONVENIENCE OUTLET, GFI TYPE, MOUNTED ABOVE COUNTER AT +46" TO CENTERLINE OF RECEPTACLE UNLESS NOTED OTHERWISE.

SPECIAL RECEPTACLE TO SUIT EQUIPMENT FURNISHED.

QUADRUPLEX HOSPITAL GRADE RECEPTACLE, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.

QUADRUPLEX HOSPITAL GRADE RECEPTACLE, +46" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.

DUPLEX HOSPITAL GRADE CONVENIENCE OUTLET CONNECTED TO EMERGENCY POWER, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.

DUPLEX HOSPITAL GRADE CONVENIENCE OUTLET CONNECTED TO EMERGENCY POWER, +46" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.

QUADRUPLEX HOSPITAL GRADE CONVENIENCE OUTLET CONNECTED TO EMERGENCY POWER, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.

QUADRUPLEX HOSPITAL GRADE CONVENIENCE OUTLET CONNECTED TO EMERGENCY POWER, +46" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.

GFCI DUPLEX HOSPITAL GRADE CONVENIENCE OUTLET CONNECTED TO EMERGENCY POWER, +18" TO CENTERLINE OF RECEPTACLE UNLESS NOTED OTHERWISE.

GFCI DUPLEX HOSPITAL GRADE CONVENIENCE OUTLET CONNECTED TO EMERGENCY POWER, +46" TO CENTERLINE OF RECEPTACLE UNLESS NOTED OTHERWISE.

SINGLE POLE TOGGLE SWITCH, +46" TO CENTER LINE MOUNTING HEIGHT.

THREE OR FOUR WAY SWITCH AS INDICATED, +46" TO CENTER LINE MOUNTING HEIGHT.

LED DECORA STYLE DIMMER WITH ROCKER ON/OFF SWITCH AND SLIDE DIMMER ON SIDE OF ROCKER, 0-10VDC CAPABLE DIMMER +3-6" MOUNTING HEIGHT, LUTRON "DIVA 0-10V" OR EQUAL, BY LEVITON, WATTS/OPPER, HUBBELL, OR COOPER, (NO ADDITIONAL POWER PACK REQUIRED), DIVISION 26 SHALL PROVIDE ALL ADDITIONAL CONDUCTORS TO ALL FIXTURES CONNECTED FOR A PROPER 0-10VDC OPERATION, GRAY FINISH.

LED DECORA STYLE DIMMER WITH ROCKER ON/OFF SWITCH AND SLIDE DIMMER ON SIDE OF ROCKER, 0-10VDC CAPABLE THREE WAY DIMMER, +3-6" MOUNTING HEIGHT, LUTRON "DIVA 0-10V" OR EQUAL, BY LEVITON, WATTS/OPPER, HUBBELL, OR COOPER, (NO ADDITIONAL POWER PACK REQUIRED), DIVISION 26 SHALL PROVIDE ALL ADDITIONAL CONDUCTORS TO ALL FIXTURES CONNECTED FOR A PROPER 0-10VDC OPERATION, GRAY FINISH.

LOW VOLTAGE SWITCH. SEE SHEET E6.0 DETAIL 5/E6.0 FOR LOW VOLTAGE SWITCH REQUIREMENTS.

PANELBOARD, SEE SCHEDULE.

DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS. FUSED PER MANUFACTURER'S NAME PLATE DATA OF EQUIPMENT SERVED.

SINGLE OR DOUBLE POLE, MINIMUM 20 AMP MOTOR RATED ENCLOSED SWITCH WITH "LOCK-OUT" OPTION. MOUNTED NEAR EQUIPMENT BEING SERVED.

MOTOR

EMERGENCY OVERRIDE LIGHTING RELAY "BYPASS". SEE SHEET E6.0 DETAIL 3/E6.0.

EMERGENCY OVERRIDE LIGHTING RELAY "NORMAL". SEE SHEET E6.0 DETAIL 4/E6.0.

FIRE ALARM SYSTEM

SIGNAL, HORN AND STROBE LIGHT, +6-10" MOUNTING HEIGHT TO CENTER OF DEVICE.

STROBE LIGHT, 6-10" MOUNTING HEIGHT TO CENTER OF DEVICE.

PULL STATION, WALL MOUNTED +46" TO CENTER LINE MOUNTING HEIGHT.

EXISTING "EDWARDS" FIRE ALARM CONTROL PANEL.

SMOKE DETECTOR, CEILING MOUNTED.

EXISTING FIRE ALARM LCD REMOTE ALPHANUMERIC ANNUNCIATOR, FLUSH WALL MOUNTED.

TELEPHONE/DATA SYSTEM (DIVISION 26 TO PROVIDE CONDUIT STUB UPS AND BACKBOXES ONLY, CABLING, DATA JACKS, EQUIPMENT, ETC. PROVIDED AND INSTALLED BY OTHERS).

EXISTING DATA RACK.

DATA OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE, STUB UP 1" TO CEILING SPACE ABOVE.

DATA OUTLET, +46" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE, STUB UP 1" TO CEILING SPACE ABOVE.

OCCUPANCY SENSORS

SWITCH, WALL MOUNTED OCCUPANCY SENSOR (WATTSTOPPER PW-100 OR EQUAL), +46" TO CENTER LINE MOUNTING HEIGHT.

DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, CEILING MOUNTED, INFRARED/ULTRASONIC (WATTSTOPPER "DT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.).

HOSPITAL PAGING SYSTEM (SHOWN FOR REFERENCE ONLY, CABLING, EQUIPMENT, PROGRAMMING, ETC. PROVIDED AND INSTALLED BY OTHERS).

HOSPITAL PAGING SPEAKER, CEILING RECESSED, MATCH EXISTING.

TELEVISION DISTRIBUTION (DIVISION 26 TO PROVIDE CONDUIT STUB UPS AND BACKBOXES ONLY, CABLING, JACKS, EQUIPMENT, ETC. PROVIDED AND INSTALLED BY OTHERS).

TELEVISION OUTLET, +98" TO CENTER LINE, UNLESS OTHERWISE NOTED. LOCATE DUPLEX OUTLET SHOWN DIRECTLY ADJACENT TO T.V. OUTLET AT SAME HEIGHT.

NURSE CALL SYSTEM (DIVISION 26 TO PROVIDE CONDUIT STUB UPS AND BACKBOXES ONLY, CABLING, DEVICES, EQUIPMENT, ETC. PROVIDED AND INSTALLED BY OTHERS).

DOME LIGHT, CEILING MOUNTED ABOVE PATIENT ROOM DOOR UNLESS OTHERWISE NOTED.

CODE BLUE, WALL MOUNTED AT 46" AFF. UNLESS OTHERWISE NOTED

EMERGENCY STATION, WALL MOUNTED AT 72" AFF. IN SHOWER AND 24" AFF IN TOILET ROOM.

PATIENT STATION, MOUNT IN HEADWALL UNIT UNLESS OTHERWISE NOTED.

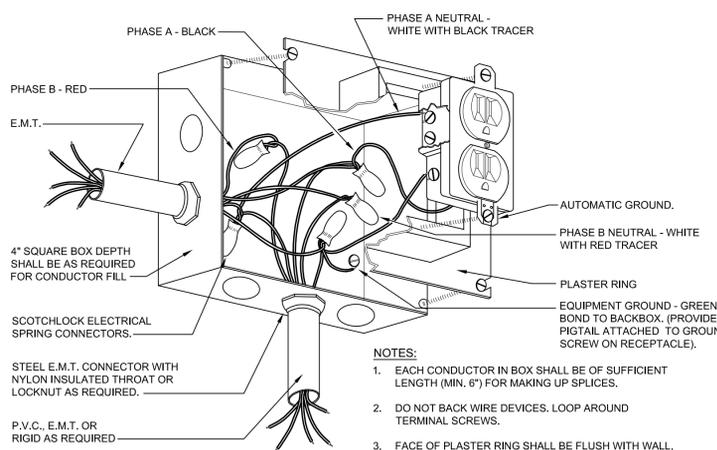
STAFF STATION, WALL MOUNTED AT 46" AFF. UNLESS OTHERWISE NOTED

ACCESS CONTROLS SYSTEM (DIVISION 26 TO PROVIDE CONDUIT STUB UPS AND BACKBOXES ONLY, CABLING, DEVICES, EQUIPMENT, ETC. PROVIDED AND INSTALLED BY OTHERS).

ACCESS CONTROL, KEYPAD LOCATION. PROVIDE SINGLE GANG, FLUSH WALL MOUNTED BOX +42" AFF WITH 1" C. AND PULLSTRING TO STUB-OUT 6" ABOVE NEAREST ACCESSIBLE CEILING.

COORDINATE EXACT ROUGH IN LOCATIONS WITH OWNER PRIOR TO ROUGH IN.

DOOR CONTACT POSITION SENSOR LOCATION. PROVIDE SINGLE GANG BOX BY DIVISION 16 AT DOOR FRAME ON SECURE SIDE OF DOOR, COORDINATE EXACT LOCATION WITH ACCESS CONTROL SYSTEM VENDOR. PROVIDE 3/4" C., WITH PULLSTRING FROM BOX TO STUB-OUT 6" ACCESSIBLE CEILING AT DOOR. COORDINATE EXACT ROUGH IN LOCATIONS WITH OWNER PRIOR TO ROUGH IN.



1 DETAIL - RECEPTACLE CONNECTION
SCALE: NONE

GENERAL NOTES:

- DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS.
- MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.
- THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.
- 112 SYMBOL INDICATING ROOM OR SPACE NUMBER.
- IN AREAS WHERE COMPUTER OUTLETS AND TELEPHONE OUTLETS ARE LOCATED BENEATH A WINDOW, AND WINDOW PREVENTS THE ROUTING OF CONDUIT UP TO CEILING SPACE, CONDUIT SHALL BE ROUTED TO A WALL WHICH ALLOWS CONDUIT TO RISE UP TO CEILING SPACE.
- ALL CONDUIT ROUTED FROM DISCONNECT TO EXTERIOR HVAC UNITS SHALL BE ROUTED UNDERGROUND, TURN UP ADJACENT TO UNIT AND MAKE TRANSITION TO SEALTITE TO SERVE UNIT. CONDUIT SHALL BE, ROUTED CONCEALED IN WALL.
- FLUSH RECESSED OUTLET BOXES INSTALLED IN NON-COMBUSTIBLE MATERIAL SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4". FLUSH RECESSED OUTLET BOXES INSTALLED IN COMBUSTIBLE MATERIAL SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX IS FLUSH WITH THE FINISHED SURFACE. COMPLY WITH N.E.C. 314.20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE.
- ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SUPPORT WIRES IS NOT ACCEPTABLE.
- ALL RECEPTABLES LOCATED WITHIN 6'-0" TO THE EDGE SINK OR OTHER WATER SOURCE SHALL BE GFCI TYPE DEVICE IN ACCORDANCE WITH N.E.C. 210.8-A.7. COORDINATE LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
- COORDINATE EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH DIVISION 23 PRIOR TO ROUGH IN. ADJUST LOCATION OF DISCONNECTING MEANS AND BRANCH CIRCUITRY AS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR DOOR SWINGS, CABINETS, COUNTERS AND OTHER BUILT-IN EQUIPMENT. CONDITIONS INDICATED ON ARCHITECTURAL DRAWINGS SHALL GOVERN.
- COORDINATE ELECTRICAL WITH ARCHITECTURAL DETAILS, FLOOR PLANS, ELEVATIONS, STRUCTURAL AND PLUMBING DRAWINGS. PROVIDE FITTINGS, JUNCTION BOXES AND ACCESSORIES TO MEET CONDITIONS.
- DEVICES LOCATED AT COUNTERS SHALL BE MOUNTED ABOVE COUNTER TOPS UNLESS KNEE SPACE IS PROVIDED WITH DRILLED HOLE IN COUNTER TOP FOR SERVICE CORDS. VERIFY WITH ARCHITECT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE PLUGS OR RECEPTACLES TO MATCH DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED BY OTHERS. (VERIFY)
- WHERE CONDUIT RUNS ARE SHOWN EXPOSED IN AN AREA WITHOUT CEILING, ANY CONDUIT RUN GOING DOWN IN A WALL SHALL BE CONCEALED.
- PRIOR TO PROJECT COMPLETION, ELECTRICAL CONTRACTOR SHALL OBTAIN FINAL SPACE NUMBERS FROM OWNER AND/OR ARCHITECT. TYPEWRITTEN PANELBOARD DIRECTORIES SHALL REFLECT SPACE DESIGNATION OF EACH CIRCUIT. NO EXCEPTIONS.
- PROVIDE NEW TYPE WRITTEN PANEL SCHEDULES REFLECTING CHANGES MADE TO EXISTING PANELS.
- REFER TO SPECIFICATIONS FOR HANGER SUPPORT WIRES REQUIRED FOR FIXTURES.
- PRIOR TO ROUGH-IN OF OUTLETS, COORDINATE AN ON SITE MEETING TO REVIEW EXACT LOCATIONS WITH FURNITURE PLAN.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRINGS WITH ID TAG INDICATING TERMINATION LOCATION, LABEL AT EACH END.
- SEE SPECIFICATIONS FOR COLORED TRACER REQUIRED ON ALL NEUTRAL CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS.
- REFER TO SPECIFICATIONS FOR LABELING OF ALL JUNCTION BOX COVERS AS WELL AS I.D. TAGS FOR DISCONNECTS AND PANELBOARDS.
- ALL WORK (RECEPTABLES, WIRING DEVICES, ECT.) SHALL BE DONE IN COMPLIANCE OF NATIONAL ELECTRIC CODE SECTION 517.

DEMOLITION NOTES:

- THE CONTRACTOR SHALL REMOVE ALL EXISTING CONDUIT, CONDUCTORS, JUNCTION BOXES, WIRING TROUGHS, ETC. IN THEIR ENTIRETY WHERE NOTED ON DEMOLITION DRAWINGS.
- ALL EXISTING EQUIPMENT REMOVED FROM SERVICE AND NOT INTENDED FOR REUSE SHALL REMAIN THE PROPERTY OF OWNER AND SHALL BE STORED OR DISPOSED OF AS DIRECTED BY THE OWNER.
- MAINTAIN SERVICE TO ALL EXISTING CIRCUITS THAT ARE NOT SCHEDULED FOR REMOVAL.
- PROVIDE BLANK COVERS ON ALL JUNCTION BOXES AND OUTLET BOXES NOT INTENDED FOR REUSE.
- EXISTING CEILING, WALLS AND FLOORS DISTURBED OR DISFIGURED BY THE ELECTRICAL RENOVATIONS SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.
- EXISTING EQUIPMENT SHOWN ON ARCHITECTURAL, MECHANICAL PLUMBING AND ELECTRICAL DRAWINGS THAT WILL REMAIN SHALL HAVE SERVICE MAINTAINED OR RECONNECTED TO EXISTING OR NEW PANELBOARD AS NECESSARY.
- ALL EXISTING LIGHT FIXTURES REMOVED FROM AREAS WHERE NEW CEILINGS AND LIGHT FIXTURES ARE TO BE INSTALLED SHALL REMAIN THE PROPERTY OF THE OWNER. (SEE NOTE #2)
- TO MAINTAIN SERVICE, TO EXTEND, OR TO RECONNECT CIRCUITS WHERE CONDUIT CAN NOT BE CONCEALED, SURFACE METAL RACEWAY (WIREFMOLD) SHALL BE USED. VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
- WHERE EXISTING CONCRETE FLOOR SLAB IS SAW CUT AND CONCRETE IS CHIPPED OUT FOR ELECTRICAL UNDER FLOOR EQUIPMENT ANY ELECTRICAL CONDUIT, WIRING AND PLUMBING PIPING THAT IS DAMAGED SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.
- CONTRACTOR SHALL SURVEY EXISTING SPACES FOR ABANDONED SYSTEMS CABLING CURRENTLY LOCATED ABOVE CEILING. CONTRACTOR TO VERIFY IF CABLING IS OPERABLE AND IN USE. ANY CABLE NOT IN USE SHALL BE REMOVED IN ITS ENTIRETY. ANY CABLE IN USE SHALL REMAIN AND SHALL BE SUPPORTED ACCORDINGLY TO MEET N.E.C. CONTRACTOR TO PROVIDE HANGERS AND J-HOOKS TO SUPPORT EXPOSED CABLING. ALL CABLING SHALL BE BUNDLED TOGETHER WITH PLENUM RATED TIE WRAPS AND SUPPORTED FROM STRUCTURE ABOVE. SUPPORT OF CABLING FROM CEILING HANGER WIRE, CONDUIT, SPRINKLER PIPE, DUCT WORK, ETC. WILL NOT BE ACCEPTABLE.
- CONTRACTOR TO SURVEY EXISTING AREAS ABOVE CEILING FOR EXISTING ELECTRICAL CONDUIT AND JUNCTION BOXES WHICH ARE TO REMAIN. ANY CONDUIT OR JUNCTION BOXES NOT CURRENTLY IN COMPLIANCE WITH N.E.C SHALL BE SUPPORTED ACCORDINGLY TO MEET CODE. CONTRACTOR TO PROVIDE ADDITIONAL HANGERS TO SUPPORT AS NECESSARY.
- CONTRACTOR TO REVIEW EXISTING CONDUIT PENETRATIONS OF RATED WALL AT RENOVATED SPACES. CONTRACTOR TO PROPERLY FIRE STOP ANY EXISTING CONDUIT PENETRATIONS OF RATED WALLS IN ORDER TO MAINTAIN INTEGRITY OF RATED WALL.

FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER
A	2x4' L.E.D. RECESSED CEILING GRID FLAT PANEL FIXTURE WITH EXTERNAL MOUNTED DRIVER, ALUMINUM FRAME AND SATIN WHITE SMOOTH LENS. FIXTURE SHALL BE CONFIGURABLE/SWITCHABLE WITH MEDIUM LUMEN PACKAGE. FIXTURES SHALL BE SET TO MATCH FIXTURE SCHEDULE. LUMEN OUTPUT: L.E.D., 35 WATTS, 5000 LUMENS, 4000°K DRIVER: MULTI-VOLT, 0-10V DIMMING TO 10%	LITHONIA "CPX" SERIES METALUX COLUMBIA
AE	2x4' L.E.D. RECESSED CEILING GRID MULTI-FUNCTION FIXTURE WITH 20-GAUGE COLD ROLLED STEEL HOUSING, SINGLE PIECE DOOR FRAME, .125 WHITE OPAL LENS WITH WHITE ANTIMICROBIAL POWDER COAT FINISH. FIXTURE SHALL HAVE READING LIGHT, EXAM LIGHT, AND AMBIENT LIGHT. PROVIDE 3-CIRCUIT LOW-VOLTAGE CONTROLLER (CORBELL LVC-2000-004) WITH 0-10V DIMMING CAPABILITIES FOR AMBIENT AND READING LIGHTS THROUGH PATIENT PILLOW SPEAKER. COORDINATE WITH NURSE CALL / PATIENT BED VENDOR FOR PROPER CONNECTIONS. LUMEN OUTPUT: L.E.D., 150 WATTS, 3000 AMBIENT LUMENS / 9000 EXAM LUMENS/500 READING LUMENS, 4000°K DRIVER: MULTI-VOLT, 0-10V DIMMING CAPABILITIES	PACO "MRP2" SERIES KENALL "MPC" SERIES LIFESHIELD "MDM" SERIES AMICO "L-SEC24" SERIES
AMH	2x4' L.E.D. RECESSED GYPBOARD ANTI-GLARE FLANGE MOUNTED MULTI-FUNCTION FIXTURE WITH 16-GAUGE COLD ROLLED STEEL HOUSING, SINGLE PIECE DOOR FRAME, 1/4" CLEAR POLYCARBONATE SECURITY LENS WITH WHITE ANTIMICROBIAL POWDER COAT FINISH. FIXTURE SHALL HAVE READING LIGHT, EXAM LIGHT, AND AMBIENT LIGHT. PROVIDE 3-CIRCUIT LOW-VOLTAGE CONTROLLER (CORBELL LVC-2000-004) WITH 0-10V DIMMING CAPABILITIES FOR AMBIENT AND READING LIGHTS THROUGH PATIENT PILLOW SPEAKER. COORDINATE WITH NURSE CALL / PATIENT BED VENDOR FOR PROPER CONNECTIONS. LUMEN OUTPUT: L.E.D., 125 WATTS, 4000 LUMENS, 4000°K DRIVER: MULTI-VOLT, 0-10V DIMMING CAPABILITIES	PACO "MRPA2" SERIES KENALL "MMP" SERIES LIFESHIELD "MDM" SERIES AMICO "L-SEC24(BH)" SERIES
A2	2x2' L.E.D. RECESSED CEILING GRID FLAT PANEL FIXTURE WITH EXTERNAL MOUNTED DRIVER, ALUMINUM FRAME AND SATIN WHITE SMOOTH LENS. FIXTURE SHALL BE CONFIGURABLE/SWITCHABLE WITH MEDIUM LUMEN PACKAGE. FIXTURES SHALL BE SET TO MATCH FIXTURE SCHEDULE. LUMEN OUTPUT: L.E.D., 33 WATTS, 4000 LUMENS, 4000°K DRIVER: MULTI-VOLT, 0-10V DIMMING TO 10%	LITHONIA "CPX" SERIES METALUX COLUMBIA
A2MH	2x2' L.E.D. RECESSED GYPBOARD ANTI-GLARE FLANGE MOUNTED FIXTURE WITH 16-GAUGE COLD ROLLED STEEL HOUSING, SINGLE PIECE DOOR FRAME, 1/4" CLEAR POLYCARBONATE SECURITY LENS WITH WHITE ANTIMICROBIAL POWDER COAT FINISH. LUMEN OUTPUT: L.E.D., 39 WATTS, 4000 LUMENS, 4000°K DRIVER: MULTI-VOLT, 0-10V DIMMING CAPABILITIES	PACO "MRGA2" SERIES KENALL "MPC" SERIES LIFESHIELD "DBX" SERIES AMICO "L-SEC22(BH)" SERIES
C	4' STRIP LIGHT FIXTURE SURFACE MOUNTED WITH WHITE ACRYLIC LENS AND WHITE FINISH, (SURFACE, STEM, OR CHAIN SUSPEND WHERE REQUIRED). LUMEN OUTPUT: L.E.D., 36 WATTS, 4000 LUMENS, 4000°K DRIVER: MULTI-VOLT	LITHONIA "CSS" SERIES METALUX COLUMBIA
C2	4'-0" SURFACE MOUNTED FIXTURE WITH FULLY GASKETED, POLYCARBONATE HOUSING AND FROSTED POLYCARBONATE LENS. LUMEN OUTPUT: L.E.D., 35 WATTS, 4000 LUMENS, 4000°K DRIVER: MULTI-VOLT	LITHONIA "CSVT" SERIES METALUX COLUMBIA
D	6" RECESSED NEW CONSTRUCTION COMMERCIAL GRADE DOWNLIGHT WITH WHITE TRIM. FIXTURE SHALL BE CONSTRUCTED OUT OF 16 GAUGE GALVANIZED STEEL WITH OPEN DOWNLIGHT REFLECTOR AND PASSIVE COOLING. FIXTURE SHALL BE WET LOCATION LISTED. LUMEN OUTPUT: L.E.D., 20 WATT, 2000 LUMENS, 4000°K DRIVER: MULTI-VOLT, 0-10V DIMMING	LITHONIA "LBR" SERIES HALO PRESCOLITE
W	L.E.D. WALL MOUNTED FIXTURE, DIE-CAST ALUMINUM WEDGE STYLE HOUSING, PROVIDE P4 PERFORMANCE PACKAGE WITH TYPE 14M DISTRIBUTION. COORDINATE FINISH WITH ARCHITECT. MOUNTING HEIGHT SHALL BE 12'-0" TO BOTTOM OF FIXTURE LUMEN OUTPUT: L.E.D., 47 WATT, 4200 LUMENS, 4000°K DRIVER: MULTI-VOLT	LITHONIA "WDE2 LED" SERIES MCGRAW EDISON BEACON
⊗	L.E.D. UNIVERSAL MOUNTED EXIT SIGN, DIE-CAST ALUMINUM WHITE HOUSING WITH RED PANEL COVER, UNIFORM LAMP DIFFUSER AND 120/277 VOLT INPUT. LAMPS: LED	LITHONIA "QUANTUM" SERIES SURE-LITE DUAL-LITE



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**EMERGENCY DEPT. RENOVATION
EMANUEL MEDICAL CENTER**
SWAINSBORO, GEORGIA

BID SET

PROJECT NUMBER: 2235
PROJECT DATE: 02/14/24
DRAWN BY: JH
APPROVED BY: TB

SCHEDULE OF REVISIONS

#	DATE

**LEGEND, NOTES
DETAILS AND FIXTURE
SCHEDULE**

E1.0

ELECTRICAL DESIGN CONSULTANTS INC. ELECTRICAL ENGINEERS
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ELECTRICAL SPECIFICATIONS:

SECTION 260000 - GENERAL

- A. THIS DIVISION OF THE SPECIFICATIONS COVERS THE COMPLETE ELECTRICAL SYSTEM FOR ALL WORK SHOWN ON THE DRAWINGS AS SPECIFIED HEREIN PROVIDING ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL SYSTEMS COMPLETE AND IN OPERATING CONDITION.
B. INCLUDE IN THE ELECTRICAL WORK ALL THE NECESSARY SUPERVISION AND THE ISSUING OF ALL COORDINATING INFORMATION TO ANY OTHER TRADES WHO ARE SUPPLYING WORK TO ACCOMMODATE THE ELECTRICAL INSTALLATIONS.
C. THE DRAWINGS FOR ELECTRICAL WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL THEREFORE BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE ELECTRICAL DRAWINGS.
D. REVIEW ARCHITECTURAL DRAWINGS FOR DOOR SWINGS, CABINETS, COUNTERS, HOLDINGS AND BUILT-IN EQUIPMENT. CONDITIONS INDICATED ON ARCHITECTURAL DRAWINGS SHALL GOVERN. PRIOR TO ROUGH-IN OF RECEPTACLES AND SYSTEMS OUTLETS, REFER TO ARCHITECTURAL CASEWORK DRAWINGS FOR ROUGH-IN COORDINATION.
E. SUBMIT FOR APPROVAL BY THE ARCHITECT ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED IN THE ELECTRICAL WORK.
F. SUBMIT ONLY SHOP DRAWINGS WHICH COMPLY WITH THE CONTRACT DOCUMENTS.
G. MARK EACH INDIVIDUAL SUBMITTAL ITEM TO SHOW SPECIFICATION SECTION WHICH PERTAINS TO THE ITEM.
H. WHEN SHOP DRAWINGS ARE REVIEWED, SOME ERRORS MAY BE DETECTED BUT OTHERS MAY BE OVERLOOKED. THIS DOES NOT GRANT THE CONTRACTOR PERMISSION TO PROCEED IN ERROR. REGARDLESS OF ANY INFORMATION CONTAINED IN THE SHOP DRAWINGS, THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS SHALL BE FOLLOWED AND ARE NOT WAIVED OR SUPERSEDED IN ANY WAY BY THE SHOP DRAWING REVIEW.
I. ONE COMPLETE SET OF ELECTRICAL DRAWINGS SHALL BE RESERVED FOR AS-BUILT DRAWINGS. ANY APPROVED DEVIATION FROM THE CONTRACT DRAWINGS SHALL BE RECORDED ON THESE DRAWINGS.
J. COMPLETED AS-BUILT DRAWINGS SHALL BE PRESENTED TO THE ARCHITECT PRIOR TO FINAL INSPECTION.
K. PROVIDE AT THE TIME OF FINAL INSPECTION THREE SETS OF MAINTENANCE AND OPERATING INSTRUCTION FOR: LIGHTING AND POWER PANELBOARDS, FUSES, WIRING DEVICES.
L. ALL ELECTRICAL WORK SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF THE FOLLOWING CODES AND/OR OTHER AUTHORITIES EXERCISING JURISDICTION OVER THE ELECTRICAL CONSTRUCTION WORK AND THE PROJECT.
a. THE NATIONAL ELECTRICAL CODE (NECA 70) - 2020 EDITION
b. THE NATIONAL ELECTRICAL SAFETY CODE (ANSI C-2)
c. THE LIFE SAFETY CODE (NFPA 101)
d. THE INTERNATIONAL BUILDING CODE - 2021 EDITION
e. MUNICIPAL AND STATE ORDINANCES GOVERNING ELECTRICAL WORK.
M. ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES SHALL BE OBTAINED, AND MADE AVAILABLE AT THE COMPLETION OF THE WORK. PERMITS, INSPECTIONS, AND CERTIFICATION FEES SHALL BE PAID FOR AS A PART OF THE ELECTRICAL WORK.

SECTION 260030 - CONDUCTORS

- A. ACCEPTABLE MANUFACTURERS ARE: GENERAL, SOUTHWIRE, ESSEX OR APPROVED EQUAL.
B. ALL WIRING SHALL BE MANUFACTURED IN THE UNITED STATES.
C. RATINGS AND SIZES:
a. SHALL BE NOT LESS THAN INDICATED ON THE DRAWINGS AND NOT LESS THAN REQUIRED BY THE NEC.
b. MINIMUM SIZE SHALL BE NO. 12 AWG COPPER PROVIDED THE MAXIMUM VOLTAGE DROPS IN THE CONTROL CIRCUITS WILL NOT ADVERSELY AFFECT THE OPERATION OF THE CONTROLS.
c. CONDUCTOR SIZES INDICATED ON THE DRAWINGS ARE FOR COPPER CONDUCTORS.
D. CONDUCTORS AND GROUND WIRES:
a. SHALL BE COPPER.
b. SIZE NO. 8 AWG AND LARGER SHALL BE STRANDED.
c. SIZE NO. 10 AWG AND SMALLER SHALL BE SOLID.
E. CONDUCTOR INSULATION: CONDUCTOR INSULATION SHALL BE THE NEC TYPE THHN.
F. WIRE SHALL BE FACTORY COLOR CODED IN SIZE NO. 6 AND SMALLER, COLOR SHALL BE BY INTEGRAL PIGMENTATION WITH A SEPARATE COLOR FOR EACH PHASE, NEUTRAL AND GROUNDING CONDUCTOR. COLOR CODE PER PHASE SHALL BE CONTINUOUS THROUGHOUT THE PROJECT.
G. ALL WIRING SHALL BE IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE.
H. OUTER JACKETS SHALL BE COLOR CODED AS FOLLOWS:
1. THREE PHASE OR SINGLE PHASE CIRCUITS, 120/208 VOLTS:
a. PHASE A - BLACK
b. PHASE B - BLUE
c. PHASE C - RED
d. NEUTRAL - WHITE
e. INSULATED GROUND WIRE - GREEN
2. THREE PHASE OR SINGLE PHASE CIRCUITS, 277/480 VOLTS:
a. PHASE A - BROWN
b. PHASE B - ORANGE
c. PHASE C - YELLOW
d. NEUTRAL - GRAY
e. INSULATED GROUND WIRE - GREEN
3. DEDICATED NEUTRALS SHALL BE PROVIDED FOR ALL MULTI-WIRE BRANCH CIRCUITS AND OUTER JACKET SHALL BE PROVIDED WITH APPROPRIATE COLORED TRACER.
a. 120/208V: WHITE WITH RED TRACER, WHITE WITH BLUE TRACER, WHITE WITH BLACK TRACER.
b. 277/480V: GRAY WITH BROWN TRACER, GRAY WITH ORANGE TRACER, GRAY WITH YELLOW TRACER.
4. ONLY FOR LARGE POWER CABLES AND WIRES WHICH DO NOT HAVE COLOR CODED JACKETS: NO. 6 AND LARGER.
5. INSTALL BANDS OF ADHESIVE NON-FADING COLORED TAPE OR SLIP-ON BANDS OF COLORED PLASTIC TUBING OVER THE CABLES AND WIRES AT THEIR ORIGINATING AND TERMINATION POINTS AND AT ALL OUTLETS OF JUNCTION BOXES.
6. COLOR SHALL BE PERMANENT AND SHALL WITHSTAND CLEANINGS.

SECTION 260040 - OUTLETS

- A. BOXES SHALL BE GALVANIZED PRESSED SHEET STEEL FOR ALL CONCEALED WORK.
B. WHERE CONDUIT RUNS ARE EXPOSED, OUTLET SHALL BE OF THE CAST METAL TYPE.
C. FOR CONCEALED WORK EACH BOX SHALL BE PROVIDED WITH A SQUARE CORNERED PLASTER RING.
D. EACH SURFACE LIGHTING FIXTURE, RECEPTACLE AND SWITCH SHALL BE PROVIDED WITH FLUSH MOUNTED OUTLET BOX. ALL OUTLETS INSTALLED IN PANELS AND OTHER ARCHITECTURAL FEATURES SHALL BE CENTERED. THE LOCATION OF ANY OUTLET MAY BE MOVED AS MUCH AS 10" BY THE ARCHITECT BEFORE THE OUTLET IS PLACED WITHOUT INCURRING ANY EXTRA COST. ALL DIMENSIONS REFER TO THE FINISHED FLOOR LINE. OUTLET BOXES SHALL BE PRESSED SHEET STEEL AND SHALL BE GALVANIZED FOR ALL CONCEALED WORK. WHERE CONDUIT RUNS ARE EXPOSED OUTLETS SHALL BE OF THE CAST METAL TYPE.
E. BOXES SHALL BE FOR THE SERVICE AND THE TYPE OF OUTLET AND SHALL NOT BE LESS THAN 4" SQUARE AND 1-1/2" DEEP EXCEPT WHERE OTHERWISE SPECIFIED. BOXES INSTALLED IN WALLS SHALL BE PROVIDED WITH A SQUARE CORNERED 1-1/2" PLASTER RING INSTALLED FLUSH WITH SURFACE OF WALL. COORDINATE DEPTH OF PLASTER RING REQUIRED FOR PARTICULAR WALL CONSTRUCTION. EACH OUTLET BOX ABOVE CEILING SHALL BE SUPPORTED FROM A STRUCTURAL MEMBER OF THE BUILDING EITHER DIRECTLY OR BY USING APPROVED METAL SUPPORT. CONDUIT IS NOT AN APPROVED MEANS OF SUPPORT. BOXES INSTALLED IN WALL SHALL BE SUPPORTED EITHER DIRECTLY TO A STUD OR BETWEEN STUDS UTILIZING AN APPROVED BAR HANGER. IN NO CASE SHALL SWITCH BOX SUPPORT AND CLIPS USED FOR MOUNTING BOXES IN OLD WORK BE UNLESS SPECIFICALLY CALLED FOR. TOP OF OUTLET BOX SHALL BE LEVEL.
F. ALL CEILING OR WALL RECESSED OUTLET BOXES OR THEIR ASSOCIATED PLASTER RINGS SHALL BE FLUSH WITH THE FINISHED SURFACE. USING COVERPLATE TO SECURE WIRING DEVICES OR SHIMMING THE DEVICE IS NOT ACCEPTABLE. CONTRACTOR SHALL EXERCISE DUE CARE WHEN CUTTING OPENING IN WALLS OR CEILING FOR OUTLET BOXES SO THAT OPENING SIZE WILL PERMIT THE PROPER INSTALLATION OF BOXES AND DEVICES. FIXTURE STUDS IN CEILINGS AND BRACKET OUTLETS SHALL BE BOLTED WITH STOVE BOLTS OR SHALL BE LOCKING TYPE OF STUD MOUNTING.
G. REMOVE ONLY KNOCKOUTS AS REQUIRED AND PLUG UNUSED OPENINGS. USE THREADED PLUGS FOR CAST METAL BOXES AND SNAP-IN METAL COVERS FOR SHEET METAL BOXES.
H. THERE SHALL BE NO OUTLETS INSTALLED BACK TO BACK. A MINIMUM OF 4" SHALL SEPARATE EACH OUTLET.
I. WHERE THE VOLUME ALLOWED PER CONDUCTOR EXCEEDS THAT ALLOWED IN TABLE 370-6(B) OF THE NEC FOR THE MINIMUM SIZE OUTLET SPECIFIED, A LARGER SIZE OUTLET BOX SHALL BE USED AND SHALL BE SIZED IN ACCORDANCE WITH THE TABLE NOTED ABOVE.
J. OUTLET BOXES SHALL BE CLEAN AND FREE FROM DUST, PAINT, DIRT, PLASTER READY MIX JOINT COMPOUND AND/OR ANY OTHER DEBRIS.
K. ALL JUNCTION BOX COVER PLATES SHALL BE LABELED IDENTIFYING THE SYSTEM IT CONTAINS. THE LABEL SHALL BE NEATLY HAND WRITTEN WITH A WIDE TIP PERMANENT NON-REMOVABLE MARKER AND BE EASILY IDENTIFIED. JUNCTION BOXES CONTAINING HIGH VOLTAGE WIRING SHALL INCLUDE PANEL AND CIRCUIT DESIGNATION (EX. H, 15 OR LA - 2-A-B). JUNCTION BOXES UTILIZED FOR LOW VOLTAGE SYSTEM SHALL BE LABELED IN ACCORDANCE WITH THE SYSTEM (EX. FA FOR FIRE ALARM SYSTEM).

SECTION 260050 - WIRING DEVICES AND DEVICE PLATE

- A. FOR THE PURPOSE OF SELECTING QUALITY AND TYPE OF DEVICE, EQUIPMENT MANUFACTURED BY HUBBELL HAS BEEN SPECIFIED. THE FOLLOWING MANUFACTURERS MEETING THIS SPECIFICATION ARE ACCEPTABLE: PASS AND SEYMOUR, COOPER, LEVITON
B. SWITCHES: ALL WALL SWITCHES SHALL BE RATED 20 AMPERE, 120/277 VOLTS, HAVE SELF GROUNDING PROVISIONS, SIDE WIRING ONLY AND SHALL BE OF THE SILENT TYPE. COLOR SHALL MATCH EXISTING.
a. SINGLE POLE: HBL 1221.
b. THREE WAY: HBL 1223.
c. FOUR WAY: HBL 1224.
C. RECEPTACLE: ALL RECEPTACLES SHALL BE OF THE GROUNDING TYPE, OF THE CONFIGURATION SHOWN ON THE DRAWINGS AND SHALL BE FLUSH WALL MOUNTING TYPE, COLOR SHALL MATCH EXISTING. DEVICES CONNECTED TO EMERGENCY POWER SHALL BE RED IN COLOR.
a. HOSPITAL GRADE DUPLEX RECEPTACLE: 20 AMPERE, 125 VOLT, NEMA TYPE 5-20 P, 2-POLE, 3-WIRE, STRAIGHT BLADE, U-GROUNDING SLOT, SPECIFICATION GRADE.
b. HOSPITAL GRADE GROUND FAULT INTERRUPTER RECEPTACLE: 20 AMPERE, 125 VOLTS, NEMA TYPE 5-20R, 2-POLE, 3-WIRE WITH GROUND ED U SLOT.
D. DEVICE PLATES: PLATES SHALL BE FURNISHED FOR ALL DEVICES AND OUTLETS INDICATED ON THE DRAWINGS (TELEPHONE, COMPUTER, TV, ETC.). ALL PLATES ON MASONRY WALLS SHALL BE OVERSIZED JUMBO TYPE.
E. FLUSH MOUNTED PLATES: BEVELED TYPE WITH SMOOTH ROLLED OUTER EDGE, TO MATCH EXISTING
F. SURFACE BOX PLATES, BEVELED, GALVANIZED STEEL, PRESSURE FORMED FOR SMOOTH EDGE TO FIT BOX.
G. DIE CAST WEATHERPROOF COVER. LOCKABLE HASP VERTICAL MOUNTING. INTERMATIC #WP1010MC.

H. SWITCHES:

- a. SWITCHES SHALL BE CONNECTED TO THE LIVE SIDE OF THE CIRCUIT AND SHALL CONTROL ONLY THE OUTLETS INDICATED.
b. CONDUCTORS SHALL BE LOOPED AROUND THE TERMINAL SCREW.
c. WHERE MORE THAN ONE SWITCH IS INDICATED IN THE SAME LOCATION SWITCHES SHALL BE GANG MOUNTED UNDER A COMMON PLATE.
d. CENTER LINE OF SWITCHES IN GENERAL, SHALL BE SET 3'-6" ABOVE THE FLOOR (OFF POSITION DOWN) AND SHALL CLEAR THE DOOR TRIM OR CORNER BY 4" OR CENTER THE SPACE OCCUPIED.
e. ARCHITECTURAL PLANS SHALL BE CONSULTED BEFORE PLACING SWITCHES SO THEY WILL IN EVERY CASE BE LOCATED ON THE STRIKE SIDE OF THE DOOR AND CLEAR DOOR, CHAIR, WINDOW, AND BASEBOARD MOLDINGS.
f. SWITCHES SHALL BE SCREWED TIGHT TO THE BOXES AND SHALL NOT DEPEND ON THE COVER PLATE TO PULL THEM TIGHT.
I. RECEPTACLES:
a. CONDUCTORS SHALL BE LOOPED AROUND THE TERMINAL SCREWS, "DO NOT BACK WIRE DEVICES."
b. RECEPTACLES SHALL BE GROUNDED BY THE GREEN WIRE BOND AND SHALL BE RIGIDLY AS SHOWN ON THE DRAWINGS.
c. RECEPTACLES SHALL BE SCREWED TIGHT TO THE PLASTER RING OR OUTLET BOX AND SHALL NOT DEPEND ON THE DEVICE PLATE TO PULL THEM TIGHT.
d. CENTER LINE OF GENERAL USE RECEPTACLES SHALL BE IN GENERAL, SET 18" ABOVE THE FLOOR WITH RECEPTACLE MOUNTED IN THE VERTICAL POSITION AND WITH GROUNDING POLE AT THE BOTTOM.
e. COORDINATE RECEPTACLE HEIGHT WITH ARCHITECTURAL DRAWINGS AND LOCATE SO THAT BOTTOM OF RECEPTACLE PLATE SHALL BE 1" ABOVE COUNTER OR BACK SPLASH AND CLEAR ALL MOLDINGS.
f. CENTER LINE OF RECEPTACLES LOCATED ADJACENT TO LAVATORIES IN TOILETS SHALL BE SET 3'-6" ABOVE FLOOR.
g. RECEPTACLES SERVING WATER COOLERS SHALL BE LOCATED WITHIN COOLER HOUSING OR AS CLOSE TO BOTTOM OF HOUSING AS POSSIBLE. CORD SERVING UNIT SHALL BE AS SHORT AS POSSIBLE, IN NO CASE SHALL CORD OR RECEPTACLE BE SEEN FROM NORMAL VIEWING ANGLE.
h. ALL RECEPTACLES INSTALLED IN BATHROOMS OR TOILETS OR WITHIN 6 FEET OF LAVATORIES OR SINKS, OR ANY RECEPTACLE LOCATED ON BUILDING EXTERIOR SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE.
i. ALL RECEPTACLES INSTALLED IN KITCHENS OR OUTDOORS SHALL BE GFCI TYPE.
J. PLATES:
a. PLATES SHALL BE LEVEL, AND ALL EDGES SHALL BE IN FULL CONTACT WITH WALL.
b. PLATES SHALL BE FURNISHED FOR ALL DEVICES AND OTHER OUTLETS INDICATED ON THE DRAWINGS.
c. INSTALL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS ABOVE CEILINGS AND ON SURFACE MOUNTED OUTLETS.
d. PLATES SHALL NOT BE USED TO KEEP DEVICES SECURE.
e. PLATES SHALL BE CLEAN AND FREE FROM DUST, PLASTER OR PAINT AND SPOTS.
f. PLATE SHALL COVER OPENINGS AROUND OUTLETS.
g. PLATE SHALL BE COVERED WITH P-TOUCH LABEL. LABELS SHALL BE PROVIDED WITH BLACK WORDING FOR NORMAL AND RED WORDING FOR EMERGENCY POWER.

SECTION 260060 - LIGHTING FIXTURES AND LAMPS

- A. LIGHTING FIXTURES SHALL BE SELECTED FROM THOSE FIXTURES INCLUDED IN THE FIXTURE SCHEDULE AS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
B. FIXTURES SHALL BE SELECTED FROM THE FIXTURE SCHEDULE NOT ONLY BY CATALOG NUMBER BUT WITH CONSIDERATION TO MOUNTING, NUMBER AND TYPES OF LAMPS, AND REFERENCE NOTES AS CONTAINED IN THE FIXTURE SCHEDULE AND AS NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS. MANUFACTURERS NOT LISTED ON FIXTURE SCHEDULE OR ADDED BY ADDENDUM WILL NOT BE ACCEPTED.
C. SUPPORT OF LIGHTING FIXTURES SHALL BE THE RESPONSIBILITY OF THE FIXTURE INSTALLER AND SHALL BE AS FOLLOWS:
a. FIXTURES FLUSH MOUNTED IN EXPOSED TEE, SUSPENDED ACoustical TILE CEILINGS SHALL BE OF THE LAV-N-TYPE AND SHALL BE SUPPORTED AT DIAGONAL CORNERS OF THE FIXTURE, UTILIZING TWO (2) #14 GAUGE STEEL WIRES ATTACHED TO THE BAR JOIST OR OVERHEAD STRUCTURE. FLEXIBLE CONDUIT AND WIRING FROM OUTLET BOX TO FIXTURE SHALL BE MINIMUM 3/8" C, AND MINIMUM #14 THHN CONDUCTORS. FACTORY SUPPLIED WIRES OF SMALLER RATINGS ARE NOT ACCEPTABLE.
b. SURFACE MOUNTED FIXTURES SHALL BE SUPPORTED BY LIGHT WEIGHT CHANNEL TO TWO MEMBERS OF THE CEILING SUSPENSION SYSTEM. TWO SUPPORT CHANNELS ARE REQUIRED. SURFACE MOUNTED FIXTURES MOUNTED ON SHEET ROCK OR PLASTER CEILINGS OR LOW DENSITY ACoustical TILE CEILINGS SHALL BE MOUNTED WITH TWO 1/4" X 1/4" X 4" METAL SPACERS BETWEEN FIXTURE AND CEILING. SPACERS SHALL BE LOCATED TO PROVIDE AIR GAP BETWEEN FIXTURE AND CEILING. DO NOT PLACE SPACERS DIRECTLY OVER GALLERIES.
c. EXIT LIGHTS SHALL BE MOUNTED DIRECTLY TO THE OUTLET BOX AND IN CASE OF CEILING MOUNTED UNITS THE OUTLET BOX SHALL BE FLUSH WITH THE CEILING AND SHALL BE SUPPORTED BY A 1-1/2" CHANNEL SPANNING BETWEEN MAIN STRUCTURAL MEMBERS OF THE SUSPENSION SYSTEM. SECURE CHANNEL WITH METAL FASTENERS.
F. LIGHTING FIXTURES SHALL BE LOCATED AS SHOWN ON THE LIGHTING PLAN. IF FOR ANY REASON THIS IS IMPOSSIBLE OR IMPRACTICAL, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY FOR A DECISION AS TO THE BEST DIRECTION FOR THE SHIFT.
G. UPON COMPLETION OF INSTALLATION, LIGHTING FIXTURES AND EQUIPMENT SHALL BE IN FIRST CLASS OPERATING ORDER, IN PERFECT CONDITION AS TO FINISH, FREE FROM DEFECTS. AT FINAL INSPECTION, FIXTURES SHALL BE COMPLETELY LAMPED, BE COMPLETE WITH REQUIRED DIFFUSERS, REFLECTORS, SIDE PANELS, LOUVERS OR THE OTHER COMPONENTS NECESSARY TO COMPLETE FIXTURES. ALL FIXTURES AND EQUIPMENT SHALL BE CLEAN AND FREE FROM DUST, INSECTS, PLASTER OR PAINT SPOTS, ANY REFLECTORS, DIFFUSERS, SIDE PANELS OR OTHER PARTS BROKEN PRIOR TO FINAL INSPECTION SHALL BE REPLACED BY CONTRACTOR.

SECTION 260100 - PULL BOXES AND JUNCTION BOXES AND FITTINGS

- A. BOXES SHALL BE PROVIDED IN THE RACEWAY SYSTEMS WHEREVER REQUIRED FOR THE PULLING OF WIRES AND THE MAKING OF CONNECTIONS.
B. PULL BOXES OF NOT LESS THAN THE MINIMUM SIZE REQUIRED BY THE NATIONAL ELECTRICAL CODE ARTICLE 370 SHALL BE CONSTRUCTED OF CODE-GRADE GALVANIZED SHEET STEEL. BOXES SHALL BE FURNISHED WITH SCREWFASTENED COVERS, MOUNTED BOXES IN WELL APPOINTED AREAS (OFFICES, RECEPTION, CLASSROOMS, MEDIA CENTER, ETC) SHALL BE MINIMUM 1/16 302 STAINLESS STEEL. BOXES LOCATED ON THE EXTERIOR OF THE BUILDING SHALL BE WATERTIGHT. COVERS SHALL BE SECURED WITH TAMPER PROOF SCREWS.
C. BOXES SHALL BE SECURELY AND RIGIDLY FASTENED TO THE SURFACE OF WHICH THEY ARE MOUNTED OR SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS OF THE BUILDING EITHER DIRECTLY OR BY USING A SUBSTANTIAL AND APPROVED METAL ROD OR BRACE.
D. ALL BOXES SHALL BE SO INSTALLED THAT THE WIRING CONTAINED IN THEM CAN BE RENDERED ACCESSIBLE WITHOUT REMOVING PART OF THE BUILDING.
E. WHERE SEVERAL CIRCUITS PASS THROUGH A COMMON PULL BOX, THE CIRCUITS SHALL BE TAGGED TO INDICATE CLEARLY THEIR ELECTRICAL CHARACTERISTICS, CIRCUIT NUMBER AND DESIGNATION.
F. ALL JUNCTION BOXES LARGER THAN 4" X 4" FLUSH MOUNTED IN WALL SHALL HAVE OVERLAPPING COVER PLATE TO COVER ROUGH-IN OPENINGS.

SECTION 260110 - GROUNDING

- A. ALL MATERIALS SHALL BE UL LISTED AND BEAR A UL LABEL.
B. EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN INSULATED TYPE THHN CONDUCTORS SIZED AS INDICATED ON THE DRAWINGS. WHERE SIZE IS NOT INDICATED ON THE DRAWINGS, CONDUCTOR SIZE SHALL BE DETERMINED FROM THE NATIONAL ELECTRICAL CODE TABLE OF SIZES OF EQUIPMENT GROUNDING CONDUCTORS.
C. EACH RECEPTACLE AND SWITCH DEVICE SHALL BE FURNISHED WITH A GROUNDING SCREW CONNECTED TO THE METALLIC DEVICE FRAME, BONDING CONDUCTOR TO EACH OUTLET BOX.
D. GROUND ALL NON-CURRENT CARRYING PARTS OF THE ELECTRICAL SYSTEM, I.E., WIREWAYS, EQUIPMENT ENCLOSURES AND FRAMES, JUNCTION BOXES AND OUTLET BOXES, MANHOLE FRAMES AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY WITH ELECTRICAL CIRCUITS, TO PROVIDE A LOW IMPEDANCE PATH FOR POTENTIAL GROUNDING FAULTS.
E. GROUNDING CONDUCTORS SHALL BE PROVIDED IN ALL BRANCH CIRCUIT RACEWAYS AND CABLES. GROUNDING CONDUCTORS SHALL BE THE SAME AWG SIZE AS BRANCH CIRCUIT CONDUCTORS.
F. A GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FLEXIBLE CONDUIT INSTALLATIONS, FOR BRANCH CIRCUITS. GROUNDING CONDUCTOR SHALL BE SIZED TO MATCH BRANCH CIRCUIT CONDUCTORS.

SECTION 260120 - EQUIPMENT IDENTIFICATION

- A. LAMINATED PLASTIC PLATES WITH 3/16" HIGH WHITE LETTER ETCHED ON BLACK BACKGROUND.
B. PLATES SHALL BE PERMANENTLY MOUNTED UTILIZING POP RIVETS OR A PERMANENT MASTIC/EPoxy.
C. PAINTED, STENCILED OR INDENTED TAP IDENTIFICATION IS NOT ACCEPTABLE.
D. ALL ELECTRICAL APPARATUS SUCH AS WIRING TROUSERS, PANELBOARDS, INDIVIDUAL CIRCUIT BREAKERS, TRANSFORMERS AND DISCONNECT SWITCHES SHALL HAVE LAMINATED PLASTIC IDENTIFICATION PLATES. IDENTIFICATION SHALL MATCH LABELING SHOWN ON PLANS.
E. CIRCUIT BREAKERS AND DISCONNECTS SHALL IDENTIFY DESIGNATION OF THE EQUIPMENT SERVED. CIRCUIT AND PANEL FROM WHICH IT IS SERVED AS WELL AS VOLTAGE/PHASE OF CIRCUIT.
F. ON ALL PANELBOARDS THE EXTERIOR IDENTIFICATION PLATE SHALL MATCH THAT ON THE DRAWINGS AND THE PANEL AND CIRCUIT NUMBER SERVING THE PANEL SHALL BE DESIGNATED WITHIN THE PANEL.

SECTION 260130 - CONDUIT AND OUTLET SYSTEM FOR OWNER PROVIDED SYSTEMS

- A. PROVIDE A COMPLETE SYSTEM OF CONDUITS AND OUTLET BOXES FOR SYSTEMS AS REQUIRED. EACH OUTLET SHALL HAVE A CONDUIT ROUTED FROM THE FLUSHED RECESSED OUTLET BOX UP TO THE ACCESSIBLE CEILING SPACE ABOVE OR TO CRAWL SPACE BELOW. TURN CONDUIT OUT ABOVE CEILING WITH A 90° HORIZONTAL ELBOW AND TERMINATE WITH AN INSULATED BUSHING. WHERE CEILING FINISH IS EXPOSED STRUCTURE (I.E. NO ACoustical TILE CEILING), EXTEND CONDUIT TO AN AREA WITH AN ACCESSIBLE GYPSUM/ACoustical CEILING. PROVIDE NYLON PULL STRING IN CONDUIT.
B. LOCATION OF OUTLETS SHALL BE AS SHOWN ON THE DRAWINGS.
C. HEIGHT OF WALL OUTLETS SHALL BE AS NOTED ON THE DRAWINGS. ALL WALL OUTLET BOXES IN NEW CONSTRUCTION SHALL BE TWO GANG TYPE, 4" X 4" X 2 1/8" DEEP, WITH SINGLE GANG PLASTER RINGS. PLASTER RINGS SHALL BE FLUSH WITH FINISH OF WALL. COORDINATE DEPTH OF PLASTER RING REQUIRED WITH TYPE OF WALL CONSTRUCTION.
D. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
E. PROVIDE 302 JUMBO STAINLESS STEEL BLANK WALL PLATES FOR ALL OUTLETS NOT CABLED.

SECTION 260140 - FIRE ALARM SYSTEM

- A. THE ALARM EQUIPMENT AND ALL WIRING SHALL BE INSTALLED AND INTERCONNECTED BY A FACTORY CERTIFIED INSTALLER AND PLACED IN WORKING ORDER. THE NAME OF THE MANUFACTURER AND SERIAL OR IDENTIFICATION NUMBERS SHALL APPEAR ON ALL MAJOR COMPONENTS. ELECTRICAL SUPERVISION OF THE SYSTEM SHALL CONFORM TO PROVISIONS OF ARTICLE 240, NFPA STANDARD 72. CORRESPONDING PARTS OF ALL SIMILAR TYPE EQUIPMENT UNITS SHALL BE INTERCHANGEABLE, AND LOCKS FOR ALL CABINETS SHALL BE KEYS ALIKE. ALL DEVICES, EQUIPMENT AND COMBINATION THEREOF SHALL BE OF THE MANUFACTURER'S CURRENT PRODUCTION. ALL COMPONENT PARTS OF THE SYSTEM AND THE CONTROL UNIT SHALL BE APPROVED FOR THE PURPOSE INTENDED, THE STAMP, LABEL, SEAL OR CERTIFICATE OF THE UNDERWRITERS LABORATORIES OR THE FACTORY MUTUAL LABORATORIES SHALL BE CONSIDERED AS ACCEPTABLE EVIDENCE OF SUCH APPROVAL.
B. A QUALIFIED FIRE ALARM TECHNICIAN SHALL INSTALL, ADJUST AND TEST THE EQUIPMENT. THE TECHNICIAN SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE IN THE INSTALLATION AND OPERATION OF THE FIRE ALARM SYSTEM SPECIFIED. THE TECHNICIAN SHALL INSTRUCT ACCESSIBLE PERSONNEL IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF THE SYSTEM. A STATEMENT SIGNED BY THE PERSON OR PERSONS INSTRUCTED SHALL BE SUPPLIED TO THE ARCHITECT PRIOR TO FINAL OPERATION.
C. PROVIDE A WRITTEN CERTIFICATION THAT THE SYSTEM IS IN COMPLETE AND PROPER WORKING ORDER AND IN COMPLIANCE WITH ALL CODES.
D. OPERATION OF ANY MANUAL OR AUTOMATIC INITIATING DEVICE SHALL CAUSE A GENERAL ALARM TO SOUND.
E. THE SYSTEM SHALL OPERATE FROM ONE 120 VOLT CIRCUIT.
F. MANUAL STATIONS: PROVIDE MANUAL ALARM STATIONS, SEMI-FLUSH MOUNTED, OF THE PULL-LEVER TYPE. KEY RESETTABLE. HOUSING SHALL BE OF CAST METAL OR IMPACT RESISTANCE PLASTIC WITH RAISED LETTERS DESIGNATING FUNCTION AND OPERATING INSTRUCTIONS. HOUSING WILL BE RED ENAMEL WITH WHITE LETTERING.
G. SMOKE DETECTORS SHALL BE FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 16, POWER SUPPLY FOR DETECTORS SHALL BE 24 VOLT D.C. AND SUPPLIED FROM FIRE ALARM CONTROL PANEL. DETECTORS SHALL BE PHOTO ELECTRIC TYPE. EACH DETECTOR SHALL HAVE FLASHING LED FOR OPERATIONAL WALK CHECK.
H. SMOKE DETECTORS IN DUCT WORK SHALL BE PHOTO ELECTRIC TYPE FURNISHED AND CONNECTED UNDER DIVISION 16. INSTALLATION IN DUCT WORK SHALL BE ACCOMPLISHED UNDER DIVISION 16. POWER SUPPLY FOR DETECTORS SHALL BE 24 VOLTS D.C. AND SUPPLIED FROM FIRE ALARM CONTROL PANEL. PROVIDE CONTACTS TO AUTOMATICALLY SHUT DOWN FAN MOTORS. SAMPLING TUBES SHALL EXTEND ACROSS THE ENTIRE WIDTH OF THE DUCT. PROVIDE REMOTE STATION AT READILY ACCESSIBLE LOCATION IN MECHANICAL ROOM, OR IF AIR HANDLING UNIT IS ABOVE CEILING, MOUNT REMOTE STATION IN WALL BELOW CEILING, HAVING LED TO INDICATE ALARM CONDITION AND KEY SWITCH TO TEST AND RESET ALARM RELAY. MOUNT REMOTE STATION 6'-0" ABOVE FINISHED FLOOR. DETECTORS FOR AIR HANDLING EQUIPMENT RATED OVER 2000 CFM, BUT UNDER 15,000 CFM SHALL BE LOCATED IN THE SUPPLY DUCTS. DETECTORS FOR AIR HANDLING EQUIPMENT RATED OVER 15,000 CFM SHALL BE LOCATED IN THE DUCT AND RETURN DUCTS. DETECTORS SHALL BE PROVIDED WHETHER CALLED FOR ON THE PLANS OR NOT. LOCK UP CODE SECTION AND REFERENCE. LOCATION OF DETECTORS IN DUCT WORK SHALL BE AS RECOMMENDED BY DETECTOR MANUFACTURER, BUT IN NO CASE SHALL DETECTOR BE LOCATED AHEAD OF FILTERS. LOCATION OF DUCT DETECTORS SHOWN ARE SCHEMATIC IN NATURE ONLY. VERIFY EXACT LOCATION WITH UNIT AND DUCT WORK PLACEMENT.
I. SIGNAL DEVICE: PROVIDE COMBINATION LOW POWER D.C. STROBEHORN WITH HIGH INTENSITY FLASHING STROBE LIGHT FOR BOTH AUDIBLE AND VISUAL SIGNALING OR STROBE LIGHT FOR VISUAL SIGNALING ONLY. MINIMUM SOUND LEVEL, INDICATORS AT 10 FEET SHALL BE 105 DB. MINIMUM DRAW FLOW FOR HORN AND STROBE LIGHT OF 0.063 AMPS, NOMINAL VOLTAGE OF 24 D.C. UNITS SHALL BE FLUSH WALL MOUNTED 6"-8" ABOVE THE FINISHED FLOOR AT POINTS NOTED ON THE DRAWINGS. MINIMUM CANDELA LEVEL SHALL BE 75 CANDELA. CANDELA LEVEL FOR AREAS UNDER 300 SQUARE FEET MAY BE 15. ALL STROBES IN A COMMON AREA SHALL BE SYNCHRONIZED. HOUSING SHALL BE WHITE WITH RED LETTERING.
J. EACH FIRE ALARM CIRCUIT SHALL BE PROTECTED FROM LIGHTNING BY INSTALLING SURGE PROTECTION DEVICES EITHER INTERNALLY OR EXTERNALLY. CIRCUITS RUN BETWEEN BUILDINGS SHALL BE INDIVIDUALLY PROTECTED IN ADDITION TO PROTECTION AT CONTROL PANEL.
K. CONDUCTORS SHALL BE INSTALLED IN CONDUIT. CONDUIT INSTALLATION SHALL BE AS COVERED UNDER SECTION 260020 OF THESE SPECIFICATIONS.
L. NUMBER AND SIZE OF CONDUCTORS SHALL BE AS REQUIRED BY MANUFACTURER OF SYSTEM BEING INSTALLED. ANY CABLE RUN IN CONDUIT BELOW GRADE SHALL BE MOISTURE PROOF, CABLE SHALL BE EQUAL TO WEST PENN AQUA SEAL. ALL CABLING SHALL BE PLENUM RATED.
M. AT TIME OF FINAL INSPECTION, CONTRACTOR SHALL TURN OVER A RED-LINED SET OF PLANS SHOWING DEVICE LOCATION, DEVICE ADDRESS, AND DEVICE DESCRIPTOR. PANEL SHALL BE FULLY PROGRAMMED TO DENOTE LOCATION OF ADDRESSABLE DEVICES. PROVIDE A WRITTEN REPORT DENOTING THAT ALL FIRE ALARM DEVICES HAVE BEEN TESTED AND ARE OPERABLE.
N. VERIFY WITH LOCAL CODE IF 20A1P BREAKER SERVING FIRE ALARM CONTROL PANEL IS REQUIRED TO BE LOCKED IN THE 'ON' POSITION AND LABEL WITH RED LETTERING. IF REQUIRED BY LOCAL CODE, CONTRACTOR SHALL PROVIDE 'LOCK OUT' DEVICE ON 20A1P BREAKER SERVING FIRE ALARM CONTROL PANEL.

SECTION 260220 - CONSTRUCTION REVIEWS INSPECTION AND TESTING

- A. THE ARCHITECT OR HIS REPRESENTATIVE SHALL OBSERVE AND REVIEW THE INSTALLATION OF ALL ELECTRICAL SYSTEMS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
B. BEFORE COVERING OR CONCEALING ANY CONDUIT BELOW GRADE OR SLAB, IN WALL OR ABOVE CEILING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT SO THAT HE CAN REVIEW THE INSTALLATION.
C. AT THE TIME OF THE CONTRACTOR'S FINAL INSPECTION, ALL SYSTEMS SHALL BE CHECKED AND TESTED FOR PROPER INSTALLATION AND OPERATION BY THE CONTRACTOR IN THE PRESENCE OF THE ARCHITECT OR HIS REPRESENTATIVE.
D. THE CONTRACTOR SHALL FURNISH THE PERSONNEL, TOOLS AND EQUIPMENT REQUIRED TO INSPECT AND TEST ALL SYSTEMS.
E. FOLLOWING IS A LIST OF ITEMS THAT THE CONTRACTOR MUST DEMONSTRATE TO THE ARCHITECT OR HIS REPRESENTATIVE AS COMPLYING WITH THE PLANS AND SPECIFICATIONS. PLEASE NOTE THAT THIS LIST DOES NOT NECESSARILY REPRESENT ALL ITEMS TO BE COVERED IN THE FINAL INSPECTION, BUT SHOULD GIVE THE CONTRACTOR AN IDEA OF WHAT IS TO BE REVIEWED.
a. DEMONSTRATE THAT ALL PANELS HAVE BREAKERS AS SPECIFIED, TYPED DIRECTORY FOR CIRCUIT IDENTIFICATION AND THAT THEY ARE FREE OF TRASH.
b. DEMONSTRATE THAT ALL CONDUITS ARE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
c. DEMONSTRATE THAT ALL OUTLET BOXES ABOVE OR ON THE CEILING ARE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
d. DEMONSTRATE THAT OUTLET BOXES IN WALL OR CEILINGS OF COMBUSTIBLE MATERIALS ARE FLUSH WITH SURFACE OF WALL AND OUTLET BOXES IN WALLS OR CEILINGS OF NON-COMBUSTIBLE MATERIALS ARE SO INSTALLED THAT THE FRONT EDGE OF THE BOX OR PLASTER RING IS NOT SET BACK MORE THAN 1/4".
e. DEMONSTRATE THAT OUTLET BOXES IN WALLS ARE SECURE.
f. DEMONSTRATE THAT ALL DEVICES ARE PROPERLY SECURED TO BOXES, THAT DEVICE PLATES ARE PROPERLY ALIGNED AND ARE NOT BEING USED TO SECURE DEVICE.
g. UTILIZING A WOODHEAD NO. 1750 TESTING DEVICE, DEMONSTRATE THAT ALL 125 VOLT RECEPTACLES ARE PROPERLY CONNECTED.
h. DEMONSTRATE THAT ALL FIXTURES ARE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE OR AS CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS.
i. DEMONSTRATE THAT ALL DISCONNECTS REQUIRING FUSES ARE FUSED WITH THE PROPER SIZE AND TYPE, AND THAT ALL DISCONNECTS ARE PROPERLY IDENTIFIED.
j. DEMONSTRATE FIRE ALARM SYSTEM IS IN PROPER WORKING ORDER.



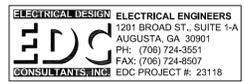
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Table with columns: #, DATE, BID SET, PROJECT NUMBER: 2235, PROJECT DATE: 02/14/24, DRAWN BY: JH, APPROVED BY: TB, SCHEDULE OF REVISIONS, ELECTRICAL SPECIFICATIONS, E1.1



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BID SET

PROJECT NUMBER: 2235
PROJECT DATE: 02/14/24
DRAWN BY: JH
APPROVED BY: TB

SCHEDULE OF REVISIONS

#	DATE

**ELECTRICAL
DEMOLITION PLAN**

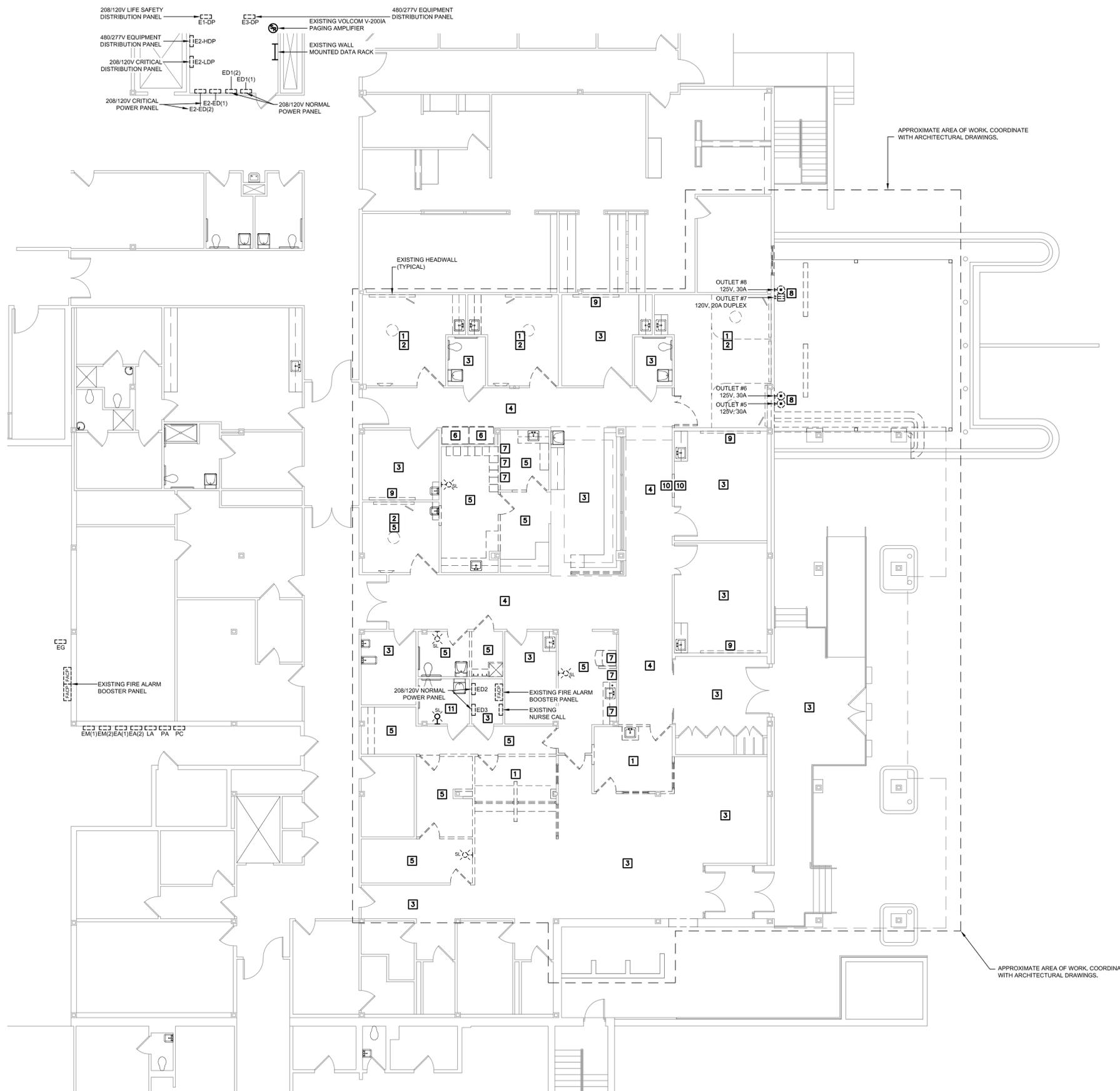
E1.2

DEMOLITION NOTES:

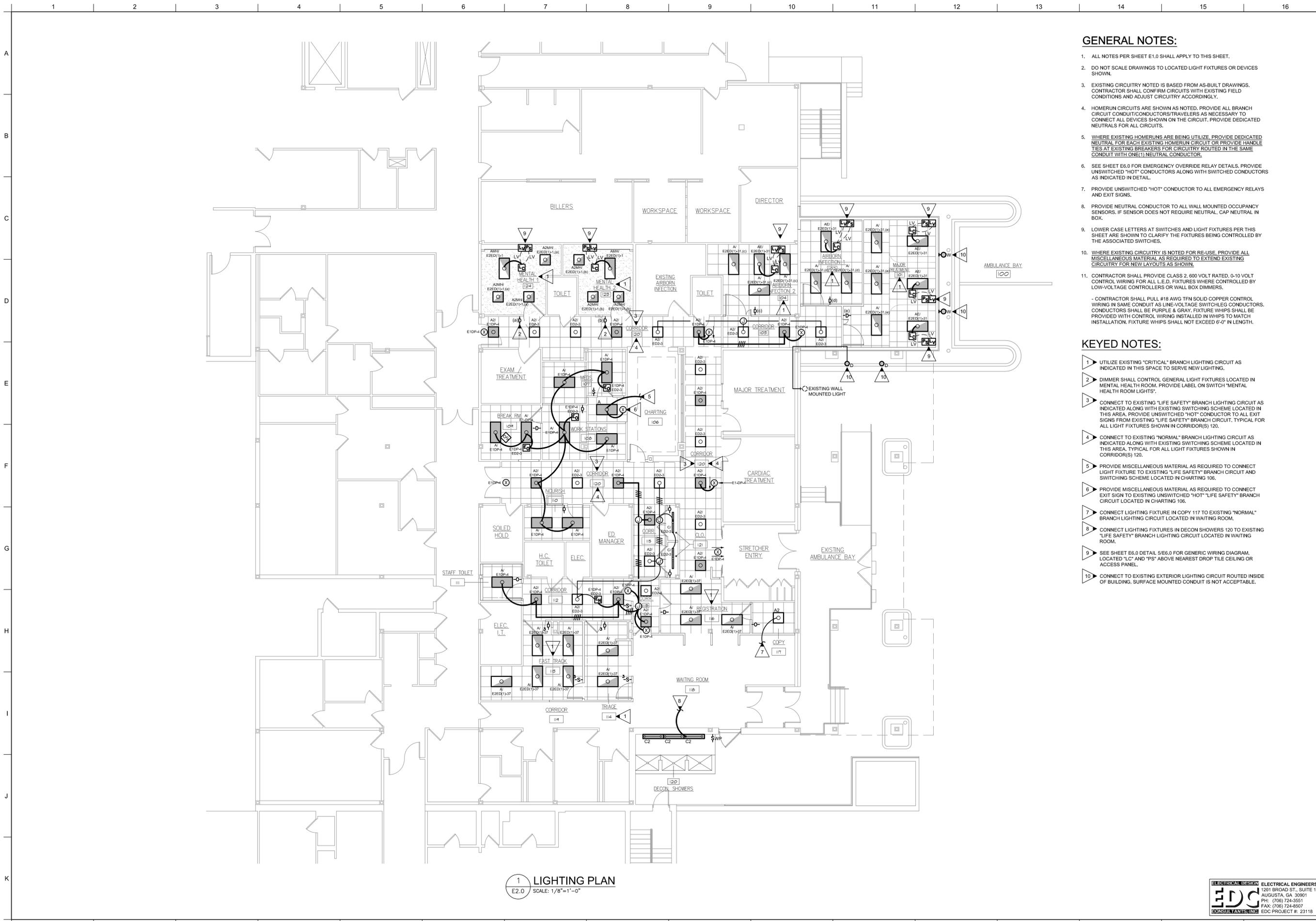
- ALL NOTES PER SHEET E1.0 SHALL APPLY TO THIS SHEET.
- DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT SHOWN.
- SEE SHEET E1.0 FOR SYSTEM SITE SPECIFIC NOTES AND FOR SYSTEM(S) CONTACT INFORMATION.
- ALL DATA RACKS, PANELS, SWITCHBOARDS AND SOUND AMPLIFIERS SHOWN PER THIS SHEET ARE FOR REFERENCE ONLY AND SHALL REMAIN AS IS.
- SEE ARCHITECTURAL DRAWINGS FOR AREAS OF DEMOLITION AND PROVIDE ELECTRICAL DEMOLITION AS REQUIRED.
- SEE ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR EACH DISCIPLINE FULL SCOPE OF DEMOLITION AND PROVIDE DEMOLITION AS REQUIRED.
- REMOVE EXISTING DATA DROPS WHERE NOTED FROM DEVICE LOCATION TO EXISTING DATA RACK IN THEIR ENTIRETY UNLESS NOTED OTHERWISE. THIS IS TO INCLUDE BUT NOT LIMITED TO BACKBOXES, CONDUIT, CABLING, ETC.
- REMOVE EXISTING LIGHT SWITCHES AND LIGHT FIXTURES WHERE NOTED IN THEIR ENTIRETY UNLESS NOTED OTHERWISE. THIS IS TO INCLUDE BUT NOT LIMITED TO BACKBOXES, CONDUIT, CONDUCTORS, LIGHT FIXTURES, ETC.. EXISTING HOMERUNS AND BRANCH CIRCUITRY ARE TO REMAIN AND BE REWORKED PER NEW LIGHTING LAYOUTS. SEE SHEET E2.0 FOR NEW LIGHTING LAYOUTS.
- ALL EXISTING FIXTURE HOUSINGS, LAMPS AND BALLAST SHALL BE PROPERLY DISPOSED OF FOLLOWING FEDERAL AND STATE EPA GUIDE LINES. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE OWNER THAT ALL LAMPS AND BALLAST HAVE BEEN PROPERLY DISPOSED. DISPOSING OF SUCH IN LOCAL LANDFILL WILL NOT MEET COMPLIANCE. CONTRACTOR SHALL INCLUDE SUCH COST IN THEIR PRICING.
- REMOVE EXISTING WIRING DEVICES WHERE NOTED IN THEIR ENTIRETY UNLESS NOTED OTHERWISE. THIS IS TO INCLUDE BUT NOT LIMITED TO BACKBOXES, CONDUIT, CONDUCTORS, ETC.. EXISTING HOMERUNS ARE TO REMAIN AND BE REWORKED PER NEW DEVICE LAYOUTS. SEE SHEET E3.0 FOR NEW DEVICE LAYOUTS.
- REMOVE EXISTING FIRE ALARM DEVICES SHOWN IN THEIR ENTIRETY UNLESS NOTED OTHERWISE. THIS IS TO INCLUDE BUT NOT LIMITED TO BACKBOXES, CONDUIT, CONDUCTORS, ETC.. PROVIDE PROGRAMMING AS REQUIRED FOR REMOVAL OF DEVICES FROM THE EXISTING EDWARDS FIRE ALARM SYSTEM. ALL OTHER EXISTING FIRE ALARM DEVICES ARE NOT SHOWN AND SHALL REMAIN AS IS. SEE SHEET E5.0 FOR NEW FIRE ALARM DEVICE LAYOUTS.
- EXISTING PAGING SPEAKERS AND CCTV CAMERAS LOCATED IN EXISTING CEILINGS SCHEDULED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION AND REINSTALLED IN NEW CEILING TILE. COORDINATE QUANTITIES WITH EXISTING CONDITIONS. COORDINATE CEILING REMOVAL WITH ARCHITECTURAL DRAWINGS. CONTRACTOR MAY ELECT TO REMOVE EXISTING DEVICE OR PROTECT IN PLACE.
- PROVIDE MISCELLANEOUS MATERIAL AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING LIGHTING/POWER CIRCUITRY. FIRE ALARM DEVICES AND SPEAKERS IN ADJACENT AREAS NOT SCHEDULED FOR DEMOLITION.

DEMOLITION KEYED NOTES:

- REMOVE EXISTING BACKBOXES, CONDUIT, CONDUCTORS, RECEPTACLES, SWITCHES, SYSTEM(S) LOCATED IN WALLS ALONG WITH HEADWALL UNIT (WHERE APPLICABLE). ALL EXISTING HOMERUNS SHALL REMAIN AS IS AND BE UTILIZED IN NEW WORK. REMOVE EXISTING LIGHT FIXTURES IN THEIR ENTIRETY AND DISPOSE OF PER GENERAL NOTES PER THIS SHEET. EXISTING LIGHTING CIRCUIT SHALL REMAIN AND BE UTILIZED IN NEW WORK.
- REMOVE EXISTING SURFACE MOUNTED PROCEDURE EXAM LIGHT AND TURN OVER TO THE OWNER. REMOVE EXISTING LIGHTING CIRCUIT SERVING EXAM LIGHT IN ITS ENTIRETY FROM EXAM LIGHT TO PANEL. THIS IS TO INCLUDE BUT NOT LIMITED TO CONDUIT, CONDUCTORS, JUNCTION BOXES, ETC.. LABEL BREAKER IN PANEL AS "SPARE".
- MINIMAL WORK IN THIS SPACE. PROVIDE MISCELLANEOUS MATERIAL TO MAINTAIN CONTINUITY TO EXISTING CIRCUITRY LOCATED IN THIS SPACE DURING CONSTRUCTION.
- CEILING GRID/TILE TO BE REMOVED/REPLACED IN THIS AREA. REMOVE EXISTING LIGHT FIXTURES AND DISPOSE OF PER GENERAL NOTES OF THIS SHEET. EXISTING HOMERUNS, BRANCH CIRCUITRY AND SWITCHING SCHEME(S) TO REMAIN AS IS FOR NEW LIGHT FIXTURES. EXISTING CCTV AND WAPs ARE TO BE REMOVED AND RE-INSTALLED BY THE OWNER. ALL OTHER CEILING MOUNTED DEVICES SUCH AS SPEAKERS, FIRE ALARM, NURSE CALL, ETC. ARE TO BE REMOVED, STORED AND RE-INSTALLED IN NEW CEILING TILE.
- REMOVE EXISTING BACKBOXES, CONDUIT, CONDUCTORS, RECEPTACLES, SWITCHES, SYSTEM(S) AND LIGHT FIXTURES IN THEIR ENTIRETY FROM DEVICE TO PANEL. THIS IS TO INCLUDE BUT NOT LIMITED TO CONDUIT, CONDUCTORS, JUNCTION BOXES, ETC.. LABEL BREAKER(S) IN PANEL AS "SPARE".
- EQUIPMENT TO BE RELOCATED. EXISTING RECEPTACLE(S) AND DATA OUTLET(S) SHALL REMAIN AS IS.
- EXISTING EQUIPMENT TO BE RELOCATED. REMOVE EXISTING DEVICES AND DATA IN ITS ENTIRETY FROM DEVICE TO PANEL/DATA RACK. SEE SHEET E3.0 FOR NEW EQUIPMENT LOCATION.
- REMOVE AND RELOCATE EXISTING EXTERIOR RECEPTACLES FOR AMBULANCE USE. SEE SHEET E3.0 FOR NEW LOCATION. PROVIDE MISCELLANEOUS MATERIAL AS REQUIRED TO EXTEND EXISTING CIRCUITRY TO NEW RECEPTACLE LOCATIONS.
- DISCONNECT EXISTING POWER, DATA AND NURSE CALL FROM EXISTING HEADWALL UNIT FOR REPLACEMENT OF HEADWALL UNIT. EXISTING CIRCUITRY SHALL REMAIN AND BE UTILIZED FOR NEW HEADWALL UNIT.
- PROVIDE MISCELLANEOUS MATERIAL AS REQUIRED TO RELOCATE ANY DEVICES IN THIS AREA FOR NEW WINDOW. DEVICES SHALL BE RELOCATED ADJACENT TO WINDOW ON EITHER SIDE OF WINDOW AS WALL SPACE ALLOWS.
- LIGHT FIXTURE AND SWITCH TO REMAIN AS IS. RELOCATE EXISTING RECEPTACLE TO NEW SINK LOCATION. RELOCATE EXISTING FIRE ALARM STROBE LIGHT AS SHOWN. PROVIDE MISCELLANEOUS MATERIAL REQUIRED FOR RELOCATION OF RECEPTACLE AND FIRE ALARM STROBE LIGHT.



1 ELECTRICAL DEMOLITION PLAN
E1.2 SCALE: 1/8"=1'-0"



GENERAL NOTES:

- ALL NOTES PER SHEET E1.0 SHALL APPLY TO THIS SHEET.
- DO NOT SCALE DRAWINGS TO LOCATED LIGHT FIXTURES OR DEVICES SHOWN.
- EXISTING CIRCUITRY NOTED IS BASED FROM AS-BUILT DRAWINGS. CONTRACTOR SHALL CONFIRM CIRCUITS WITH EXISTING FIELD CONDITIONS AND ADJUST CIRCUITRY ACCORDINGLY.
- HOMERUN CIRCUITS ARE SHOWN AS NOTED. PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS/TRAVELERS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.
- WHERE EXISTING HOMERUNS ARE BEING UTILIZE, PROVIDE DEDICATED NEUTRAL FOR EACH EXISTING HOMERUN CIRCUIT OR PROVIDE HANDLE TIES AT EXISTING BREAKERS FOR CIRCUITRY ROUTED IN THE SAME CONDUIT WITH ONE (1) NEUTRAL CONDUCTOR.
- SEE SHEET E6.0 FOR EMERGENCY OVERRIDE RELAY DETAILS. PROVIDE UNSWITCHED "HOT" CONDUCTORS ALONG WITH SWITCHED CONDUCTORS AS INDICATED IN DETAIL.
- PROVIDE UNSWITCHED "HOT" CONDUCTOR TO ALL EMERGENCY RELAYS AND EXIT SIGNS.
- PROVIDE NEUTRAL CONDUCTOR TO ALL WALL MOUNTED OCCUPANCY SENSORS. IF SENSOR DOES NOT REQUIRE NEUTRAL, CAP NEUTRAL IN BOX.
- LOWER CASE LETTERS AT SWITCHES AND LIGHT FIXTURES PER THIS SHEET ARE SHOWN TO CLARIFY THE FIXTURES BEING CONTROLLED BY THE ASSOCIATED SWITCHES.
- WHERE EXISTING CIRCUITRY IS NOTED FOR RE-USE, PROVIDE ALL MISCELLANEOUS MATERIAL AS REQUIRED TO EXTEND EXISTING CIRCUITRY FOR NEW LAYOUTS AS SHOWN.
- CONTRACTOR SHALL PROVIDE CLASS 2, 600 VOLT RATED, 0-10 VOLT CONTROL WIRING FOR ALL L.E.D. FIXTURES WHERE CONTROLLED BY LOW-VOLTAGE CONTROLLERS OR WALL BOX DIMMERS.
- CONTRACTOR SHALL PULL #18 AWG TFM SOLID COPPER CONTROL WIRING IN SAME CONDUIT AS LINE-VOLTAGE SWITCH/LEG CONDUCTORS. CONDUCTORS SHALL BE PURPLE & GRAY. FIXTURE WHIPS SHALL BE PROVIDED WITH CONTROL WIRING INSTALLED IN WHIPS TO MATCH INSTALLATION. FIXTURE WHIPS SHALL NOT EXCEED 6'-0" IN LENGTH.

KEYED NOTES:

- UTILIZE EXISTING "CRITICAL" BRANCH LIGHTING CIRCUIT AS INDICATED IN THIS SPACE TO SERVE NEW LIGHTING.
- DIMMER SHALL CONTROL GENERAL LIGHT FIXTURES LOCATED IN MENTAL HEALTH ROOM. PROVIDE LABEL ON SWITCH "MENTAL HEALTH ROOM LIGHTS".
- CONNECT TO EXISTING "LIFE SAFETY" BRANCH LIGHTING CIRCUIT AS INDICATED ALONG WITH EXISTING SWITCHING SCHEME LOCATED IN THIS AREA. PROVIDE UNSWITCHED "HOT" CONDUCTOR TO ALL EXIT SIGNS FROM EXISTING "LIFE SAFETY" BRANCH CIRCUIT. TYPICAL FOR ALL LIGHT FIXTURES SHOWN IN CORRIDOR(S) 120.
- CONNECT TO EXISTING "NORMAL" BRANCH LIGHTING CIRCUIT AS INDICATED ALONG WITH EXISTING SWITCHING SCHEME LOCATED IN THIS AREA. TYPICAL FOR ALL LIGHT FIXTURES SHOWN IN CORRIDOR(S) 120.
- PROVIDE MISCELLANEOUS MATERIAL AS REQUIRED TO CONNECT LIGHT FIXTURE TO EXISTING "LIFE SAFETY" BRANCH CIRCUIT AND SWITCHING SCHEME LOCATED IN CHARTING 106.
- PROVIDE MISCELLANEOUS MATERIAL AS REQUIRED TO CONNECT EXIT SIGN TO EXISTING UNSWITCHED "HOT" "LIFE SAFETY" BRANCH CIRCUIT LOCATED IN CHARTING 106.
- CONNECT LIGHTING FIXTURE IN COPY 117 TO EXISTING "NORMAL" BRANCH LIGHTING CIRCUIT LOCATED IN WAITING ROOM.
- CONNECT LIGHTING FIXTURES IN DECON SHOWERS 120 TO EXISTING "LIFE SAFETY" BRANCH LIGHTING CIRCUIT LOCATED IN WAITING ROOM.
- SEE SHEET E6.0 DETAIL 5/E6.0 FOR GENERIC WIRING DIAGRAM. LOCATED "LC" AND "PS" ABOVE NEAREST DROP-TILE CEILING OR ACCESS PANEL.
- CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT ROUTED INSIDE OF BUILDING. SURFACE MOUNTED CONDUIT IS NOT ACCEPTABLE.

1 LIGHTING PLAN
E2.0 SCALE: 1/8"=1'-0"



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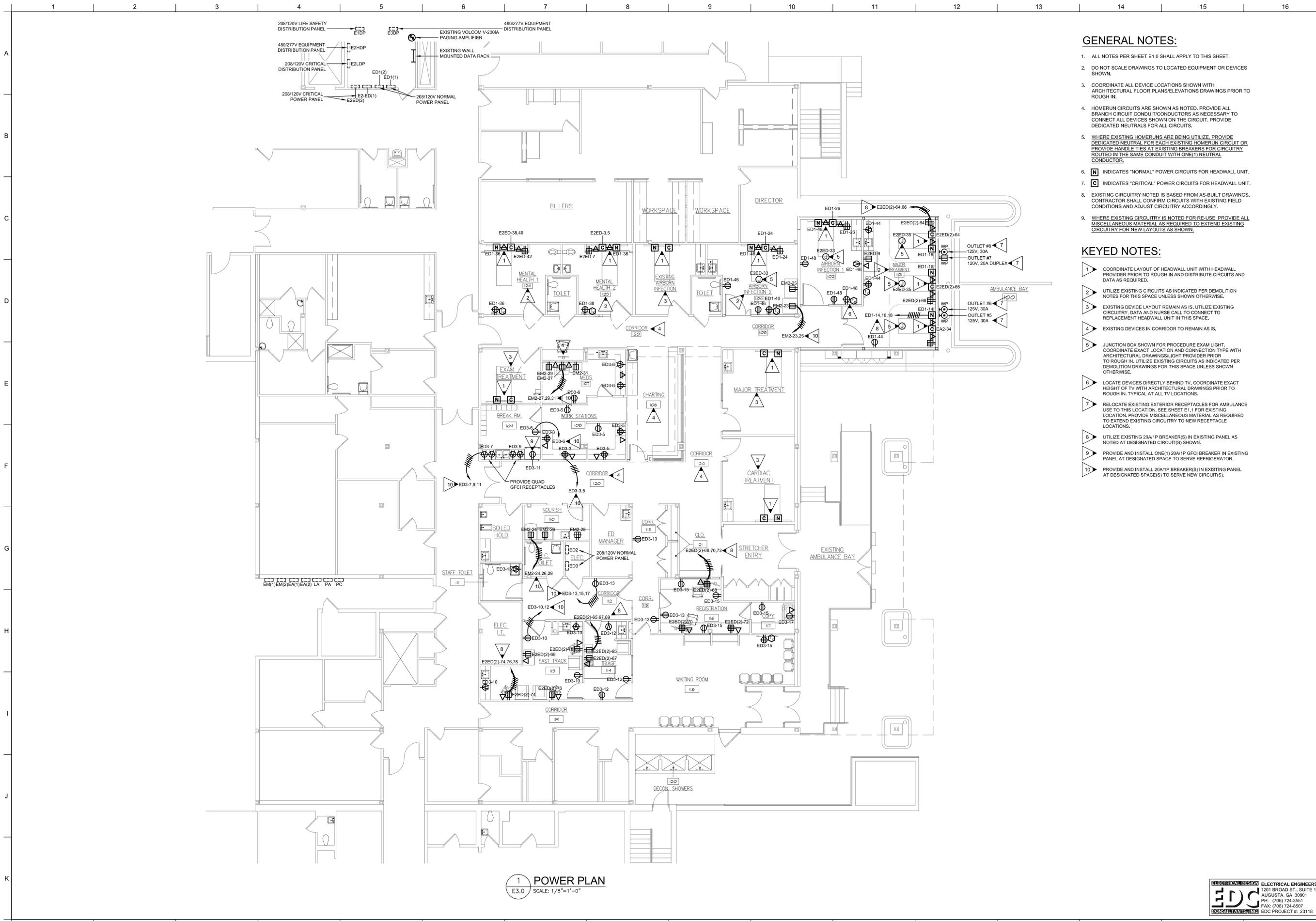


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SWAINSBORO, GEORGIA

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APPROVED BY:	TB
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LIGHTING PLAN
E2.0

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EDC PROJECT #: 23118



GENERAL NOTES:

- ALL NOTES PER SHEET E1.0 SHALL APPLY TO THIS SHEET.
- DO NOT SCALE DRAWINGS TO LOCATED EQUIPMENT OR DEVICES SHOWN.
- COORDINATE ALL DEVICE LOCATIONS SHOWN WITH ARCHITECTURAL FLOOR PLANS/ELEVATIONS DRAWINGS PRIOR TO ROUGH IN.
- HOMERUN CIRCUITS ARE SHOWN AS NOTED. PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.
- WHERE EXISTING HOMERUNS ARE BEING UTILIZE, PROVIDE DEDICATED NEUTRAL FOR EACH EXISTING HOMERUN CIRCUIT OR PROVIDE HANDLE TIES AT EXISTING BREAKERS FOR CIRCUITRY ROUTED IN THE SAME CONDUIT WITH ONE(1) NEUTRAL CONDUCTOR.
- N** INDICATES "NORMAL" POWER CIRCUITS FOR HEADWALL UNIT.
- C** INDICATES "CRITICAL" POWER CIRCUITS FOR HEADWALL UNIT.
- EXISTING CIRCUITRY NOTED IS BASED FROM AS-BUILT DRAWINGS. CONTRACTOR SHALL CONFIRM CIRCUITS WITH EXISTING FIELD CONDITIONS AND ADJUST CIRCUITRY ACCORDINGLY.
- WHERE EXISTING CIRCUITRY IS NOTED FOR RE-USE, PROVIDE ALL MISCELLANEOUS MATERIAL AS REQUIRED TO EXTEND EXISTING CIRCUITRY FOR NEW LAYOUTS AS SHOWN.

KEYED NOTES:

- COORDINATE LAYOUT OF HEADWALL UNIT WITH HEADWALL PROVIDER PRIOR TO ROUGH IN AND DISTRIBUTE CIRCUITS AND DATA AS REQUIRED.
- UTILIZE EXISTING CIRCUITS AS INDICATED PER DEMOLITION NOTES FOR THIS SPACE UNLESS SHOWN OTHERWISE.
- EXISTING DEVICE LAYOUT REMAIN AS IS. UTILIZE EXISTING CIRCUITRY. DATA AND NURSE CALL TO CONNECT TO REPLACEMENT HEADWALL UNIT IN THIS SPACE.
- EXISTING DEVICES IN CORRIDOR TO REMAIN AS IS.
- JUNCTION BOX SHOWN FOR PROCEDURE EXAM LIGHT. COORDINATE EXACT LOCATION AND CONNECTION TYPE WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN. UTILIZE EXISTING CIRCUITS AS INDICATED PER DEMOLITION DRAWINGS FOR THIS SPACE UNLESS SHOWN OTHERWISE.
- LOCATE DEVICES DIRECTLY BEHIND TV. COORDINATE EXACT HEIGHT OF TV WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN. TYPICAL AT ALL TV LOCATIONS.
- RELOCATE EXISTING EXTERIOR RECEPTACLES FOR AMBULANCE USE TO THIS LOCATION. SEE SHEET E1.1 FOR EXISTING LOCATION. PROVIDE MISCELLANEOUS MATERIAL AS REQUIRED TO EXTEND EXISTING CIRCUITRY TO NEW RECEPTACLE LOCATIONS.
- UTILIZE EXISTING 20A/1P BREAKER(S) IN EXISTING PANEL AS NOTED AT DESIGNATED CIRCUIT(S) SHOWN.
- PROVIDE AND INSTALL ONE(1) 20A/1P GFCI BREAKER IN EXISTING PANEL AT DESIGNATED SPACE TO SERVE REFRIGERATOR.
- PROVIDE AND INSTALL 20A/1P BREAKER(S) IN EXISTING PANEL AT DESIGNATED SPACE(S) TO SERVE NEW CIRCUIT(S).

1 POWER PLAN
E3.0 SCALE: 1/8"=1'-0"

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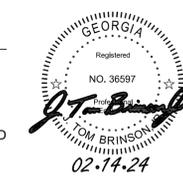
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PROJECT DATE:	02/14/24
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APPROVED BY:	TB
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POWER PLAN
E3.0



**EMERGENCY DEPT. RENOVATION
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BID SET

PROJECT NUMBER: 2235
PROJECT DATE: 02/14/24
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MECHANICAL POWER PLAN

E4.0

GENERAL NOTES:

- ALL NOTES PER SHEET E1.0 SHALL APPLY TO THIS SHEET.
- DO NOT SCALE DRAWINGS TO LOCATED EQUIPMENT OR DEVICES SHOWN.
- REFER TO MECHANICAL CONNECTION SCHEDULES FOR CIRCUIT DESIGNATIONS, WIRE AND CONDUIT SIZE, DISCONNECT MEANS, AND OTHER ELECTRICAL REQUIREMENTS FOR MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT.
- COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT WITH MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS.
- SEE DETAIL SHEETS FOR APPLICABLE HVAC ROUGH-IN DETAILS.
- LOCATE DISCONNECT AT UNIT AS REQUIRED TO MAINTAIN PROPER CLEARANCES PER NEC.
- ALL EXTERIOR DISCONNECTS SHALL BE RATED NEMA 3R RATED.
- ALL EXTERIOR FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF WITH STEEL FITTINGS.
- COORDINATE BREAKER SIZE TO MATCH NAMEPLATE RATING ON UNITS.
- HOMERUN CIRCUITS ARE SHOWN AS NOTED. PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

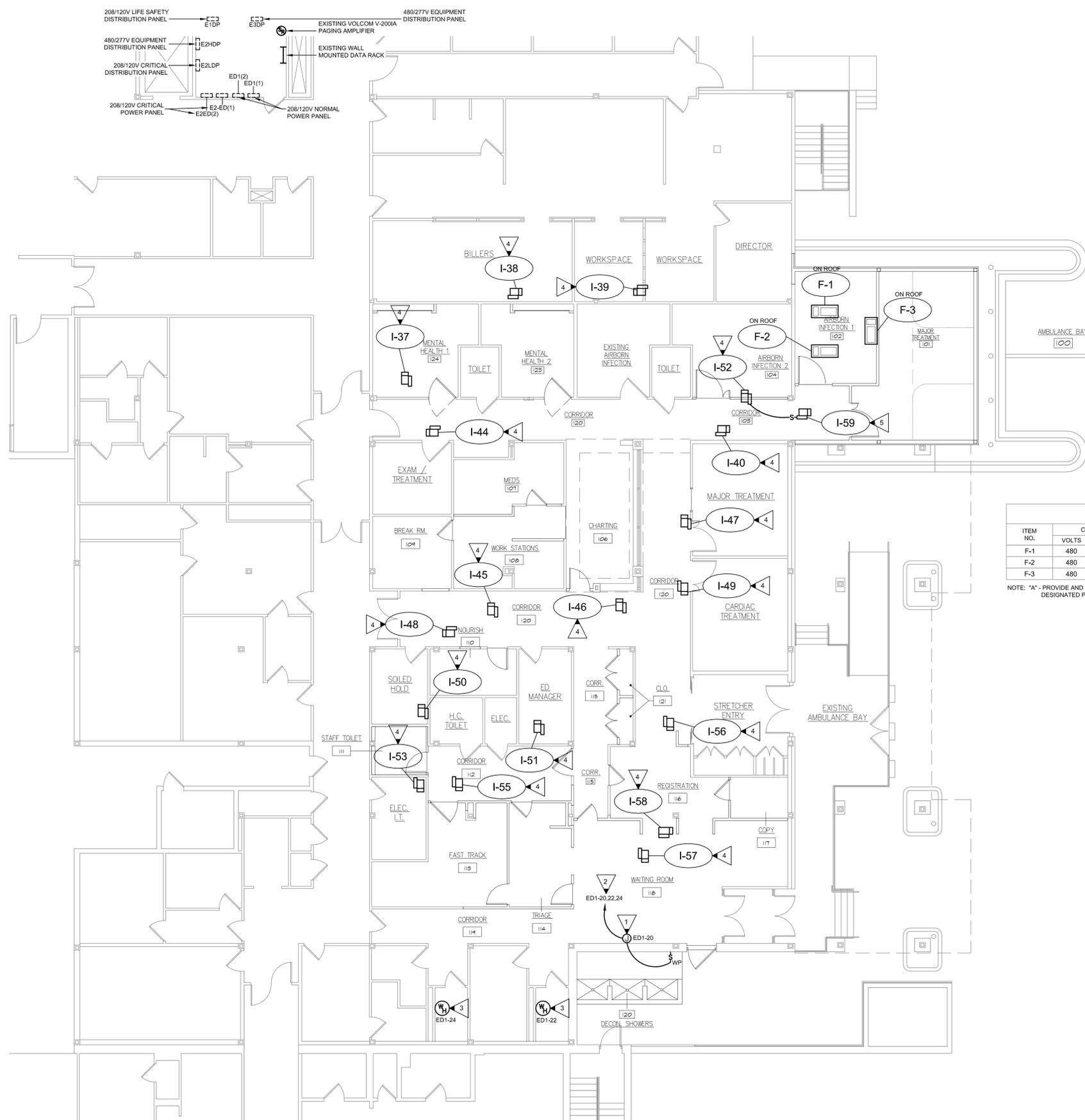
KEYED NOTES:

- JUNCTION BOX SHOWN FOR REFERENCE ONLY. PROVIDE 120V CONNECTION TO SOLENOIDS LOCATED IN VALVE BOX. COORDINATE EXACT LOCATION AND CONNECTION TYPE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN. WEATHER PROOF SWITCH SHOWN SHALL CONTROL SOLENOID VALVES. PROVIDE ALL MISCELLANEOUS MATERIAL AS REQUIRED FOR A COMPLETE WORKING SYSTEM.
- UTILIZE EXISTING 20A/1P BREAKER(S) IN EXISTING PANEL AS NOTED AT DESIGNATED CIRCUIT(S) SHOWN.
- UNDER SINK WATER HEATER. COORDINATE EXACT LOCATION AND CONNECTION TYPE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
- VAV UNIT IS A ONE FOR ONE REPLACEMENT UNLESS OTHERWISE NOTED. DISCONNECT THE EXISTING VAV UNIT FOR REPLACEMENT BY MECHANICAL CONTRACTOR. PROVIDE MISCELLANEOUS MATERIAL AS REQUIRED TO EXTEND EXISTING CIRCUITRY TO NEW VAV UNIT. PROVIDE NEW FLEXIBLE CONNECTION ALONG WITH NEW MOTOR RATED SWITCH FOR DISCONNECT MEANS.
- NEW VAV UNIT. CONNECT TO EXISTING CIRCUIT SERVING VAV "1-52" AS INDICATED. PROVIDE 3/4" C. 3#12 WITH MOTOR RATED SWITCH FOR DISCONNECT MEANS.

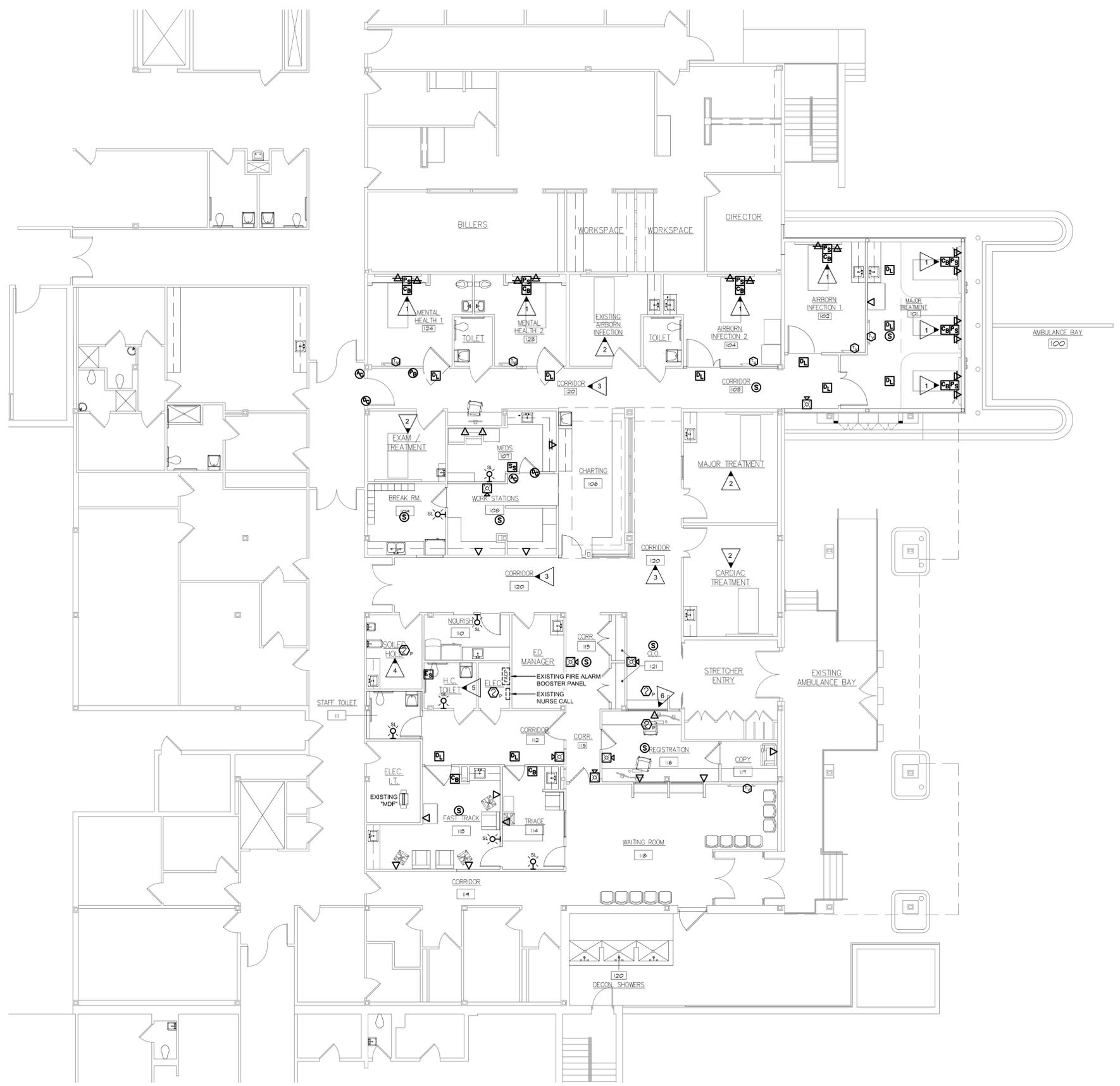
FAN CONNECTION SCHEDULE

ITEM NO.	CHARACTERISTICS					CIRCUIT	FEEDER	DISCONNECT SWITCH		
	VOLTS	PH	NOTE	MCA	MOP			SIZE	P	FEATURES
F-1	480	3	A	1.6	20	E3DP-19	3/4" C., 2#12, 1#12G	-	-	PROVIDED WITH UNIT
F-2	480	3	A	1.6	20	E3DP-20	3/4" C., 2#12, 1#12G	-	-	PROVIDED WITH UNIT
F-3	480	3	A	1.6	20	E3DP-25	3/4" C., 2#12, 1#12G	-	-	PROVIDED WITH UNIT

NOTE: "A" - PROVIDE AND INSTALL ONE(1) 20A/2P BREAKER ALONG WITH ALL ASSOCIATED MOUNTING HARDWARE AND NEW FILLER PLATES IN DESIGNATED PANEL AT DESIGNATED SPACES TO SERVE EQUIPMENT.



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



- GENERAL NOTES:**
- ALL NOTES PER SHEET E1.0 SHALL APPLY TO THIS SHEET.
 - DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT SHOWN.
 - EXISTING SYSTEMS(S) ARE NOT SHOWN FOR CLARITY AND SHALL REMAIN AS IS UNLESS OTHERWISE NOTED.
 - COORDINATE ALL DEVICE LOCATIONS SHOWN WITH ARCHITECTURAL FLOOR PLANS/ELEVATIONS DRAWINGS PRIOR TO ROUGH IN.
 - FIRE ALARM DEVICES AS SHOWN SHALL CONNECT TO THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL PROGRAMMING, CONTROL/MONITOR MODULES, ETC. AS REQUIRED FOR A COMPLETE WORKING SYSTEM.
 - ACCESS CONTROLS DEVICES SHOWN ARE BACKBOXES AND CONDUIT STUB UPS ONLY PROVIDED BY DIVISION 26. CABLE, EQUIPMENT AND PROGRAMMING IS PROVIDED AND INSTALLED BY OTHERS.
 - NURSE CALL DEVICES SHOWN ARE BACKBOXES AND CONDUIT STUB UPS ONLY PROVIDED BY DIVISION 26. CABLE, EQUIPMENT AND PROGRAMMING IS PROVIDED AND INSTALLED BY OTHERS.

- KEYED NOTES:**
- NURSE CALL AND DATA DEVICES SHALL BE LOCATED IN HEADWALL UNIT. COORDINATE LAYOUT OF HEADWALL UNIT WITH HEADWALL PROVIDER PRIOR TO ROUGH IN.
 - RELOCATE EXISTING DATA AND NURSE CALL TO REPLACEMENT HEADWALL UNIT IN THIS SPACE.
 - REINSTALL EXISTING SYSTEM(S) IN NEW ACT CEILING. CONNECT DEVICES TO EXISTING CABLING PROTECTED DURING CONSTRUCTION.
 - EXISTING NURSE CALL TO REMAIN AS IS.
 - RELOCATE FIRE ALARM AND NURSE CALL DEVICES TO NEW LOCATIONS AS SHOWN.
 - NEW FIRE/SMOKE SHUTTER. COORDINATE EXACT CONNECTION POINT WITH SHUTTER PROVIDER PRIOR TO ROUGH. SMOKE DETECTORS ARE TO RELEASE FIRE/SMOKE SHUTTER UPON ACTIVATION OF FIRE ALARM SYSTEM. PROVIDE ALL CONTROL MODULES, RELAYS, ETC. AS REQUIRED FOR A COMPLETE WORKING SYSTEM.



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SWAINSBORO, GEORGIA**

BID SET	
PROJECT NUMBER:	2235
PROJECT DATE:	02/14/24
DRAWN BY:	JH
APPROVED BY:	TB
SCHEDULE OF REVISIONS	
#	DATE

SYSTEMS
PLAN

E5.0

1 SYSTEMS PLAN
E5.0 SCALE: 1/8"=1'-0"

EDC ELECTRICAL DESIGN CONSULTANTS INC.
ELECTRICAL ENGINEERS
1201 BROAD ST., SUITE 1-A
AUGUSTA, GA 30901
PH: (706) 724-3551
FAX: (706) 724-8507
EDC PROJECT #: 23118

BID SET

PROJECT NUMBER: 2235
PROJECT DATE: 02/14/24
DRAWN BY: JH
APPROVED BY: TB

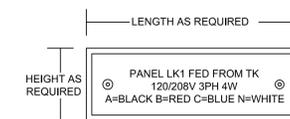
SCHEDULE OF REVISIONS

#	DATE

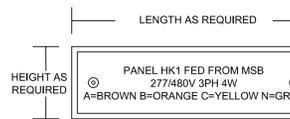
ELECTRICAL DETAILS

E6.0

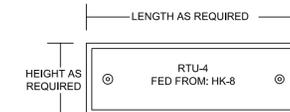
FOR 120/208V PANELS:



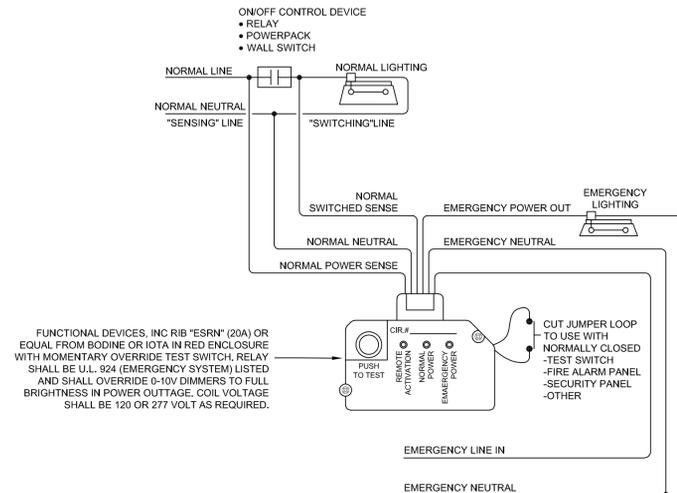
FOR 277/480V PANELS:



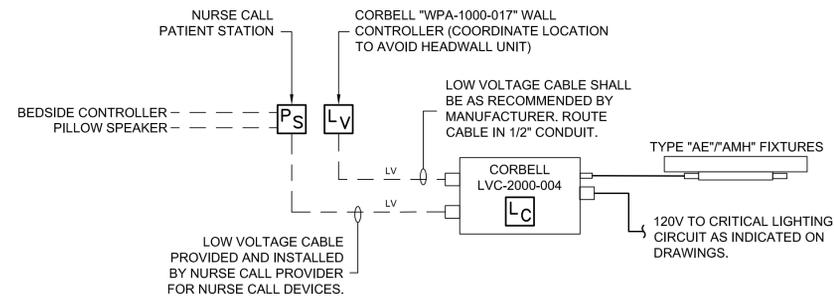
FOR DISCONNECTS:



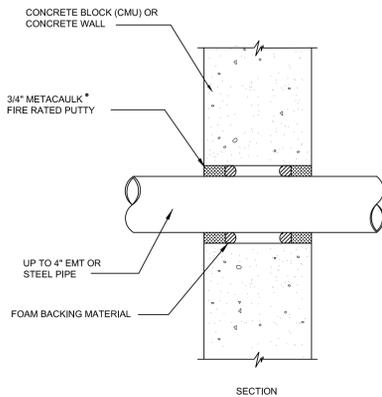
6 EQUIPMENT IDENTIFICATION TAG DETAIL
SCALE: NOT TO SCALE



**4 "NORMAL" LIGHTING SWITCHED
EMERGENCY LIGHTING CONTROL UNIT - DETAIL**
SCALE: NONE

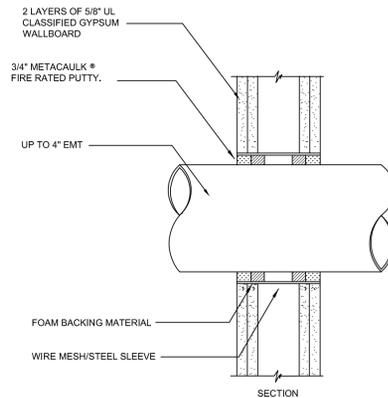


5 DETAIL - MULTI-FUNCTION TYPICAL WIRING DIAGRAM
SCALE: NONE
NOTE: CONSULT FACTORY FOR FINAL WIRING. PROVIDE ALL BACKBOXES, CABLES, ETC. FOR A COMPLETE WORKING SYSTEM. LOCATE 'LC' AND 'PS' ABOVE NEAREST DROP TILE CEILING OR ACCESS PANEL.



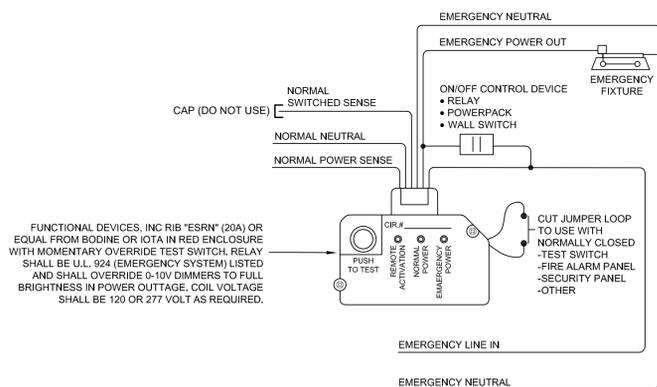
NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

1 DETAIL - CONCRETE WALL PENETRATION
SCALE: NONE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

2 DETAIL - GYPSUM WALLBOARD PENETRATION
SCALE: NONE



**3 "BY-PASS" OPERATION
EMERGENCY LIGHTING CONTROL UNIT - DETAIL**
SCALE: NONE