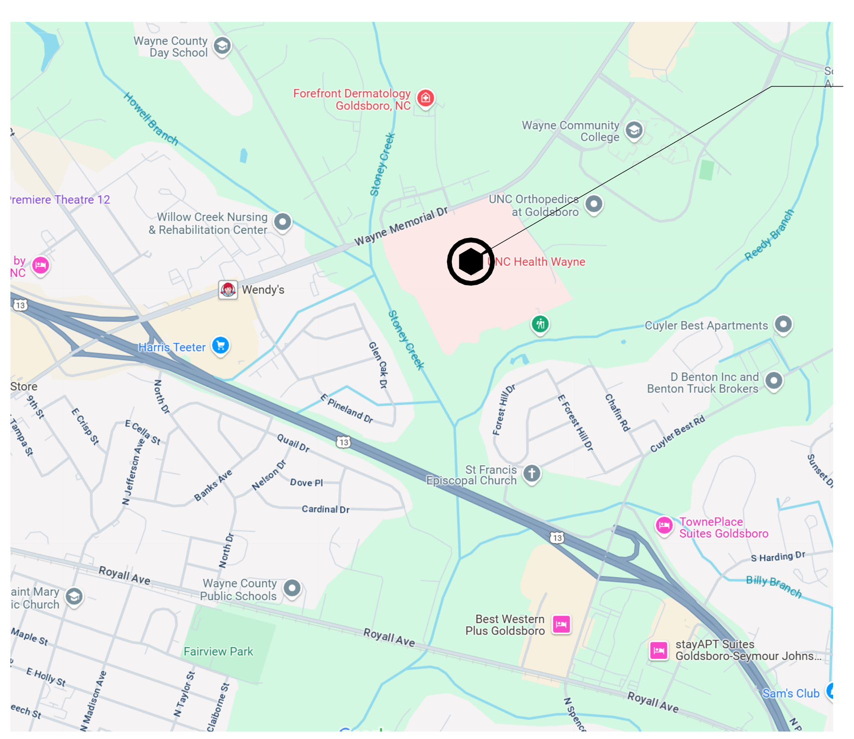
UNC HEALTH WAYNE
CATH LAB RENOVATION

FINAL CONSTRUCTION DRAWINGS
CERTIFICATE OF NEED NO. P-12569-24
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533



PROJECT SITE LOCATION

ELECTRICAL ENGINEER

DEVITA — Engineering Great Ideas
DEVITA
33 VILLA ROAD, SUITE 300
GREENVILLE, SC 29615
T. 864.232.6642

ARCHITECT/ENGINEER

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4,
Suite 500
Charlotte, NC 28209
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CPLteam.com

OWNER

UNC HEALTH WAYNE
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27534
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Charlotte, NC 28209
CPLteam.com

NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH® Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. — Registered Architectural Corporation — 51301 — North Carolina — Charlotte, North Carolina

Kenneth Arnold Ryan — Registered Architect — 8924 — North Carolina — Charlotte, N.C.
11/14/2025

SHEET INFORMATION

Issued
11/14/2025

Scale

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
CPL

Checked By
CPL

Drawing Title
COVER

Drawing Number
-
G000

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DRAWING LIST

GENERAL	
G000	COVER
G001	DRAWING LIST & ABBREVIATIONS
G002	NORTH CAROLINA - 2018 APPENDIX B - BUILDING CODE SUMMARY
G003	SPECIFICATIONS
G100	OVERALL GROUND FLOOR - EXISTING LIFE SAFETY PLAN
G100.1	ENLARGED GROUND FLOOR - LIFE SAFETY PLAN NEW WORK
G100.2	ENLARGED GROUND FLOOR EXISTING CONDITIONS PLAN
STRUCTURAL	
S201	MEDICAL EQUIPMENT SUBSTRUCTURE PLANS, DETAILS AND NOTES
ARCHITECTURAL	
A100	GROUND FLOOR DEMOLITION PLAN - OVERALL
A100A	ENLARGED GROUND FLOOR DEMOLITION PLAN - AREA A
A100B	ENLARGED GROUND FLOOR DEMOLITION PLAN - AREA B
A200	GROUND FLOOR NEW WORK PLAN - OVERALL
A200A	ENLARGED GROUND FLOOR NEW WORK PLAN - AREA A
A200A.1	ENLARGED GROUND FLOOR NEW WORK PLAN - AREA A
A200B	ENLARGED GROUND FLOOR NEW WORK PLAN - AREA B
A203	ROOF PLAN - OVERALL
A350	BUILDING SECTIONS
A400	PARTITION TYPES & DETAILS
A401	PARTITION DETAILS - BLOCKING
A402	UL DETAILS
A403	UL DETAILS
A600	GROUND FLOOR REFLECTED CEILING PLAN - OVERALL
A600A	ENLARGED GROUND FLOOR REFLECTED CEILING PLAN - AREA A
A600B	ENLARGED GROUND FLOOR REFLECTED CEILING PLAN - AREA B
A700	GROUND FLOOR EQUIPMENT PLAN - OVERALL
A700A	ENLARGED GROUND FLOOR EQUIPMENT PLAN - AREA A
A700A.1	ENLARGED GROUND FLOOR EQUIPMENT PLAN- AREA A VENDOR
A700B	ENLARGED GROUND FLOOR EQUIPMENT PLAN - AREA B
A701	TYPICAL FIXTURE AND ACCESSORY LEGENDS
A702	INTERIOR RENDERINGS
A703	INTERIOR ELEVATIONS
A704	INTERIOR ELEVATIONS
A705	INTERIOR ELEVATIONS
A800	TYPICAL CASEWORK TYPES
A900	DOOR PANELS, FRAME TYPES, WINDOW TYPES & SCHEDULES
INTERIORS	
I000	INTERIORS GENERAL
I200	FLOOR FINISH PLAN
I300	FLOOR PATTERNING PLAN
HVAC	
H000	HVAC SYMBOLS LEGEND AND CONTRACTOR NOTES
H001	HVAC SPECIFICATIONS
H100	PARTIAL GROUND FLOOR HVAC DEMOLITION PLAN
H110	PARTIAL GROUND FLOOR HVAC PIPING DEMOLITION PLAN
H200	PARTIAL GROUND FLOOR HVAC NEW WORK PLAN
H201	PARTIAL GROUND FLOOR HVAC ROOF PLAN
H300	PARTIAL GROUND FLOOR HVAC PIPING NEW WORK PLAN
H500	HVAC CONTROLS
H800	DETAILS
H900	SCHEDULES
PLUMBING	
P000	PLUMBING LEGEND, NOTES, & SYSTEM DIAGRAMS
P100	GROUND FLOOR PIPING DEMOLITION PLAN
P100U	CRAWLSPACE PIPING DEMOLITION PLAN
P110	GROUND FLOOR MED GAS PIPING DEMOLITION PLAN
P200	GROUND FLOOR SANITARY, VENT, AND STORM PIPING NEW WORK PLAN
P200U	CRAWLSPACE SANITARY, VENT, AND STORM PIPING NEW WORK PLAN
P300	GROUND FLOOR DOMESTIC WATER PIPING NEW WORK PLAN
P301	ROOF DOMESTIC WATER PIPING NEW WORK PLAN
P400	GROUND FLOOR MED GAS PIPING PLAN
FIRE PROTECTION	
FP200	FIRE FLOOR FIRE PROTECTION PLAN
ELECTRICAL	
E000	ELECTRICAL LEGEND AND SCHEDULES
E001	ELECTRICAL SPECIFICATIONS
E002	ELECTRICAL SINGLE-LINE DIAGRAM - NORMAL POWER
E003	ELECTRICAL SINGLE-LINE DIAGRAM - EMERGENCY POWER
E004	ELECTRICAL DIAGRAMS
E100	ELECTRICAL DEMOLITION PLAN - GROUND FLOOR
E100A	ENLARGED ELECTRICAL DEMOLITION PLANS
E200	ELECTRICAL POWER PLAN - GROUND FLOOR
E200A	ENLARGED ELECTRICAL POWER PLAN
E201	ELECTRICAL PLAN - ROOF
E300	ELECTRICAL LIGHTING PLAN - GROUND FLOOR
E300A	ENLARGED ELECTRICAL LIGHTING PLAN
E800	ELECTRICAL DETAILS
E900	ELECTRICAL PANEL SCHEDULES
E901	ELECTRICAL PANEL SCHEDULES
PHILIPS (FOR REFERENCE ONLY)	
PHILIPS-CS	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-GN	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-A1	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-AD1	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-AD2	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-S1	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-S2	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-SD	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-E1	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-ED	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-NN	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-R1	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-R2	PHILIPS (FOR REFERENCE ONLY)
PHILIPS-R3	PHILIPS (FOR REFERENCE ONLY)
GETINGE (FOR REFERENCE ONLY)	
GETINGE-1	GETINGE (FOR REFERENCE ONLY)
GETINGE-2	GETINGE (FOR REFERENCE ONLY)
GETINGE-3	GETINGE (FOR REFERENCE ONLY)

PROJECT ABBREVIATIONS

A	
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AWP	ACOUSTICAL WALL PANEL
ADJ	ADJACENT
A/C	AIR CONDITIONING
ALT	ALTERNATE
ALUM	ALUMINUM
AB	ANCHOR BOLT
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
AD	AREA DRAIN
AGL	ART GLASS
ACM	ASBESTOS CONTAINING MATERIAL
@	AT
AUTO	AUTOMATIC
B	
BP	BEARING PLATE
BM	BENCH MARK
BITUM	BITUMINOUS
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BOT	BOTTOM
BRK	BRICK
BLDG	BUILDING
BN	BULLNOSE
C	
CAB	CABINET
CPT	CARPET
CI	CAST IRON
CB	CATCH BASIN OR CHALK BOARD
CLG	CEILING
CLG HT	CEILING HEIGHT
CL	CENTER LINE
CER	CERAMIC
CHR	CHAIR RAIL
CIRC	CIRCUMFERENCE
CO	CLEAN OUT
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CJT	CONSTRUCTION JOINT

CONT	CONTINUOUS
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CG	CORNER GUARD
CR	CRASH RAIL
D	
DP	DAMP PROOFING
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET,DTL	DETAIL
DIA	DIAMETER
DG	DIGITAL GRAPHIC
DWC	DIGITIAL WALL COVERING
DWP	DIGITIAL WALL PANEL
DIM	DIMENSION
DISP	DISPENSER
DSP	DISPOSAL
DO	DITTO, REPEAT, SAME
DS	DIVIDER STRIP
DR	DOOR
DBL	DOUBLE
DN	DOWN
DS	DOWNSPOUT
DT	DRAIN TILE
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
E	
EA	EACH
EF	EACH FACE
EW	EACH WAY
E	EAST
ELEC	ELECTRICAL
ELEV	ELEVATION
EL	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENTR	ENTRANCE
EPT	EPOXY PAINT
ERF	EPOXY RESIN FLOOR
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
EXHST	EXHAUST
EXIST	EXISTING
ETR	EXISTING TO REMAIN
EXP	EXPANSION
EJ	EXPANSION JOINT

F	
FAB	FABRICATE
FT	FEET
FRP	FIBER REINFORCED PANEL
FIG	FIGURE
FIN	FINISH
FF	FINISH FLOOR
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HOSE
FL,FLR	FLOOR
FD	FLOOR DRAIN
FTG	FOOTING
FND	FOUNDATION
FS	FULL SIZE
FUT	FUTURE
G	
GALV	GALVANIZED
G	GAS
GA	GAUGE
GEN	GENERAL
GC	GENERAL CONTRACTOR
GL	GLASS, GLAZING
GB	GRAB BAR
GR	GRADE, GRADING
GSF	GROSS SQUARE FOOT
GRT	GROUT
GYP	GYPSUM
GYP BD	GYPSUM BD
GWB	GYPSUM WALL BOARD
H	
HDWR	HARDWARE
HDWD	HARDWOOD
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HT, HGT	HEIGHT
HEX	HEXAGONAL
HPL	HIGH PRESSURE PLASTIC LAMINATE
HWY	HIGHWAY
HM	HOLLOW METAL
HORZ	HORIZONTAL
HB	HOSE BIBB
HW	HOT WATER
HR	HOUR
I	
IN	INCH
INCL	INCLUDING
ID	INSIDE DIAMETER

INSUL	INSULATION
INT	INTERIOR
INTERM	INTERMEDIATE
INV	INVERT
J	
JAN	JANITOR
JS	JANITOR SINK
JT	JOINT
K	
KIT	KITCHEN
L	
LBL	LABEL
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LYR	LAYER
LDR	LEADER
LH	LEFT HAND
LIB	LIBRARY
LT	LIGHT
LW	LIGHT WEIGHT
LVT	LUXURY VINYL TILE
M	
MACH	MACHINE
MH	MAN HOLE
MHC	MAN HOLE COVER
MFR	MANUFACTURE
MFRR	MANUFACTURER
MAS	MASONRY
MO	MASONRY OPENING
MAT	MATERIALS
MAX	MAXIMUM
MECH	MECHANICAL
MET	METAL
MTL	METAL
M	METER
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MR	MOISTURE RESISTANT
MTD	MOUNTED
N	
NAT	NATURAL
NRC	NOISE REDUCTION COEFFICIENT
NOM	NOMINAL
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE

NO, #	NUMBER
O	
OC	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
OH	OVERHEAD
P	
PT	PAINT(ED)
PR	PAIR
PTR	PAPER TOWEL RECEPTOR
PKG	PARKING
PART BD	PARTICLE BOARD
PART	PARTITION
PTM	PATCH TO MATCH
PVMT	PAVEMENT
PL	PLATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PVC	POLYVINYL CHLORIDE
PC CONC	PRECAST CONCRETE
PRE FAB	PREFABRICATED
PT	PRESSURE TREATED
PL	PROPERTY LINE
Q	
QTY	QUANTITY
QB	QUARRY BASE
QT	QUARRY TILE
QTZ	QUARTZ
R	
RAD	RADIUS
RECP	RECEPTACLE
RE:	REFER TO
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCED(ING)
REQ'D	REQUIRED
RB	RESILIENT BASE
RS	RESILIENT SHEET
RST	RESILIENT STAIR TREAD
RT	RESILIENT TILE
RP	RESIN PANEL
REV	REVISED
RH	RIGHT HAND
R	RISER
RD	ROOF DRAIN
RM	ROOM
RO	ROUGH OPENING
S	

SAN	SANITARY
SCHED	SCHEDULE
SCON	SEALED CONCRETE
SEC	SECOND
SECT	SECTION
SIM	SIMILAR
SSM	SOLID SURFACE MATERIAL
STC	SOUND TRANSMISSION COEFFICIENT
SC	SPECIALTY CEILING
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SN	STAIR NOSE & RISER
STD	STANDARD
STL	STEEL
SV	STONE VENEER
STOR	STORAGE
SGFT	STRUCTURAL GLAZED FACING TILE
ST STL	STRUCTURAL STEEL
STRUCT	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
SAT	SUSPENDED ACOUSTICAL TILE
T	
TEL	TELEPHONE
TEMP	TEMPERATURE
TER	TERRAZZO
THK	THICKNESS
TB	TILE BASE
TF	TILE FLOOR
TPD	TOILET PAPER DISPENSER
TOS	TOP OF SLAB/STEEL
TOW	TOP OF WALL
TR	TRIM
TYP	TYPICAL
U	
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPH	UPHOLSTERY
U	URINAL
V	
VEN	VENEER
VIF	VERIFY IN FIELD
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
VET	VINYL ENHANCED TILE
VQT	VINYL QUARTZ TILE
VOL	VOLUME

W	
WOM	WALK OFF MATT
WG	WALL GUARD
WLT	WALL TILE
WC	WATER CLOSET
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
W	WEST
WIND	WINDOW
W/	WITH
W/O	WITHOUT
WD	WOOD
WS	WRITEABLE SURFACE
Y	
YD	YARD

GENERAL DEFINITIONS

LIMIT OF WORK:
THIS TERM SHALL DENOTE THE APPROXIMATE PROJECT BOUNDARY.

HOLD:
THE PRESENCE OF "HOLD" IN A DIMENSION STRING INDICATES THAT THE HEIGHT/LENGTH MUST BE EXACTLY THE DIMENSION SPECIFIED. ANY VARIANCE MUST BE REVIEWED BY THE ARCHITECT PRIOR TO CONSTRUCTION. THESE DIMENSIONS SHALL BE FROM OUTSIDE FACE OF FARTHEST FINISH TO OUTSIDE FACE OF FARTHEST FINISH, INCLUDING APPLIED FINISHES.

CLEAR:
THE PRESENCE OF "CLEAR" IN A DIMENSION STRING INDICATES THAT THE HEIGHT/LENGTH MUST BE AT LEAST THE DIMENSION SPECIFIED. THESE DIMENSIONS ARE FROM FACE OF FARTHEST FINISH TO FACE OF FARTHEST FINISH, INCLUDING APPLIED FINISHES. ANY DISCREPANCY MUST BE REVIEWED BY THE ARCHITECT. WHERE USED IN CONJUNCTION WITH ANOTHER TERM (I.E. "MIN CLEAR"), SLIGHT VARIATIONS IN THIS DIMENSION ARE ACCEPTABLE SO LONG AS THE MINIMUM SIZE IS MAINTAINED. A VARIANCE OVER 1" MUST BE REVIEWED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF ALL WORK.

MINIMUM OR MIN:
THE PRESENCE OF "MIN" OR "MINIMUM" IN A DIMENSION STRING INDICATES A MINIMUM CLEAR HEIGHT/LENGTH OF THE AMOUNT INDICATED. THESE DIMENSIONS ARE FROM FACE OF FARTHEST FINISH TO FACE OF FARTHEST FINISH, INCLUDING APPLIED FINISHES. SLIGHT VARIATIONS IN THIS DIMENSION ARE ACCEPTABLE SO LONG AS THE MINIMUM SIZE IS MAINTAINED.

MAXIMUM OR MAX:
THE PRESENCE OF "MAX" OR "MAXIMUM" IN A DIMENSION STRING INDICATES A MAXIMUM CLEAR HEIGHT/LENGTH OF THE AMOUNT INDICATED. THESE DIMENSIONS ARE FROM FACE OF FARTHEST FINISH TO FACE OF FARTHEST FINISH, INCLUDING APPLIED FINISHES. SLIGHT VARIATIONS IN THIS DIMENSION ARE ACCEPTABLE SO LONG AS THE MAXIMUM SIZE IS NOT REACHED.

FURNISH:
SUPPLY AND DELIVER TO PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.

INSTALL:
OPERATIONS AT PROJECT SITE INCLUDING UNLOADING, TEMPORARILY STORING, UNPACKING, ASSEMBLING, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.

PROVIDE:
FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

GENERAL SET NOTES

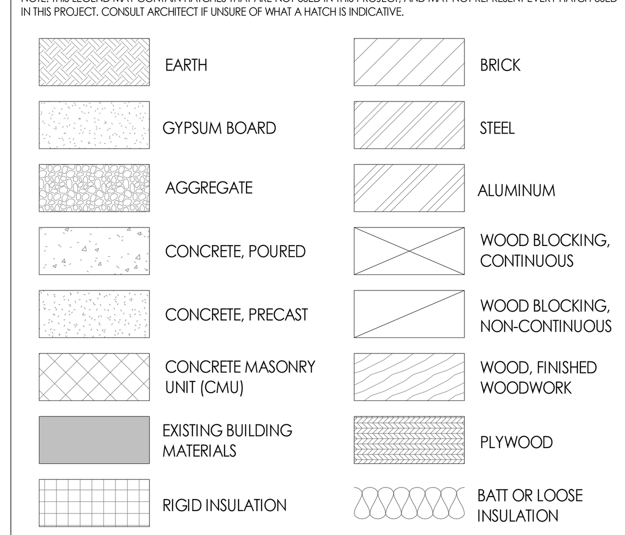
1. DO NOT SCALE DRAWINGS. CONSULT ARCHITECT FOR ANY MISSING DIMENSIONS.
2. ANY PERSPECTIVE, 3D, OR AXONOMETRIC VIEWS THAT MAY EXIST WITHIN THIS DRAWING SET ARE PURELY SUPPLEMENTAL AND REPRESENTATIVE IN NATURE AND ILLUSTRATE ONLY THE DESIGN INTENT. THESE VIEWS MAY NOT REFLECT PRESICE/COMPLETE DETAILING. REFER TO TWO-DIMENSIONAL DOCUMENTATION FOR CONSTRUCTION DETAILING.
3. GENERAL NOTES AND LEGENDS WITHIN A SERIES (I.E. PLAN NOTES OR PLAN LEGEND) APPLY TO ALL SHEETS WITHIN THAT SERIES, REGARDLESS OF ON WHICH SHEET THE GENERAL NOTES OR LEGEND APPEARS.

DIMENSIONING NOTES

1. ***FOR DEMOLITION:*** ALL CONTENT ON DEMOLITION PLANS INDICATE GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF MATERIALS TO BE REMOVED. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO COMMENCEMENT OF ALL DEMOLITION WORK. COORDINATE ANY DISCREPANCIES WITH ARCHITECT PRIOR TO COMMENCEMENT OF ALL WORK.
2. ***FOR RENOVATION PROJECTS:*** ALL EXISTING COMPONENTS DEPICTED IN THIS DRAWING SET ARE GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF THOSE EXISTING MATERIALS. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO COMMENCEMENT OF ALL WORK. ALL DIMENSIONS TO EXISTING BUILDING COMPONENTS ARE TO FACE OF EXISTING WALL OR PARTITION.
3. ALL PARTITION & WALL DIMENSIONS INDICATED ON FLOOR PLANS AND REFLECTED CEILING PLANS ARE FROM FACE OF PARTITION TYPE TO FACE OF PARTITION TYPE, UNLESS NOTED OTHERWISE. APPLIED FINISHES WILL BE BUILT OUTSIDE OF THESE DIMENSIONS, UNLESS THE DIMENSION IS INDICATED AS MIN, MAX, CLEAR, OR HOLD.
4. ALL CASEWORK DIMENSIONS INDICATED ARE TO EDGE OF COUNTERTOP OR EDGE OF CABINET.
5. ALL DIMENSIONS TO DOOR OPENINGS ARE TO FINISHED JAMB, UNLESS NOTED OTHERWISE.
6. ALL DIMENSIONS TO GLAZING SYSTEMS ARE TO FINISHED JAMB OR CENTERLINE OF MULLION/GASKET, UNLESS NOTED OTHERWISE. THESE OUTSIDE DIMENSIONS ARE ROUGH OPENING SIZES, AND GLAZING SYSTEMS ARE TO BE ADJUSTED ACCORDINGLY TO ACCOUNT FOR SHIMS, SEALANT, ETC. AS REQUIRED.
7. REFER TO TYPICAL FIXTURE AND ACCESSORY LEGENDS SHEET FOR MORE SPECIFIC DIMENSIONING REQUIREMENTS SURROUDNING FIXTURES AND ACCESSORIES.
8. FIELD VERIFY ALL APPLICABLE DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL.

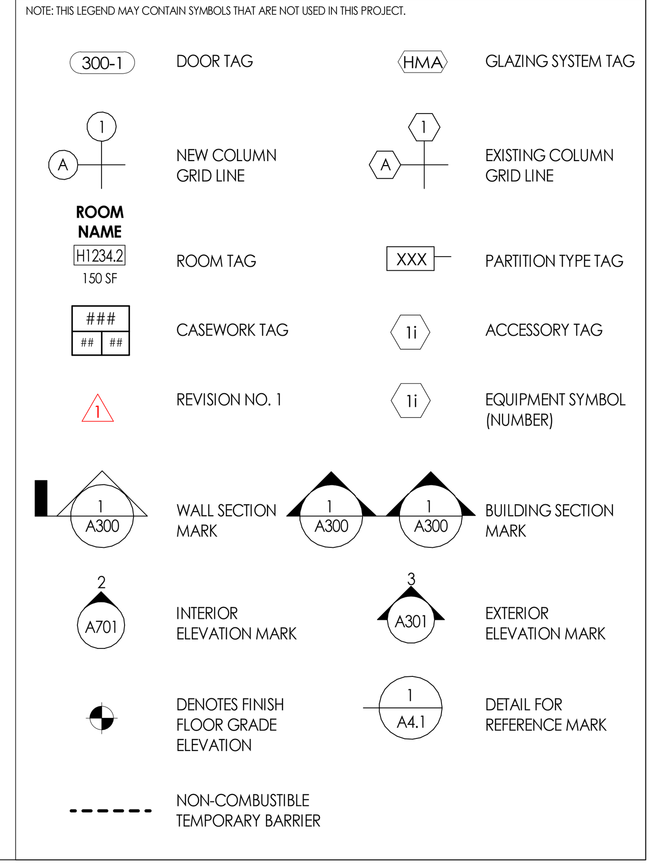
COMMON MATERIAL HATCHES

NOTE: THIS LEGEND MAY CONTAIN HATCHES THAT ARE NOT USED IN THIS PROJECT, AND MAY NOT REPRESENT EVERY HATCH USED IN THIS PROJECT. CONSULT ARCHITECT IF UNSURE OF WHAT A HATCH IS INDICATIVE.



SYMBOLS LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.



CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com

NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH® Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

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2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
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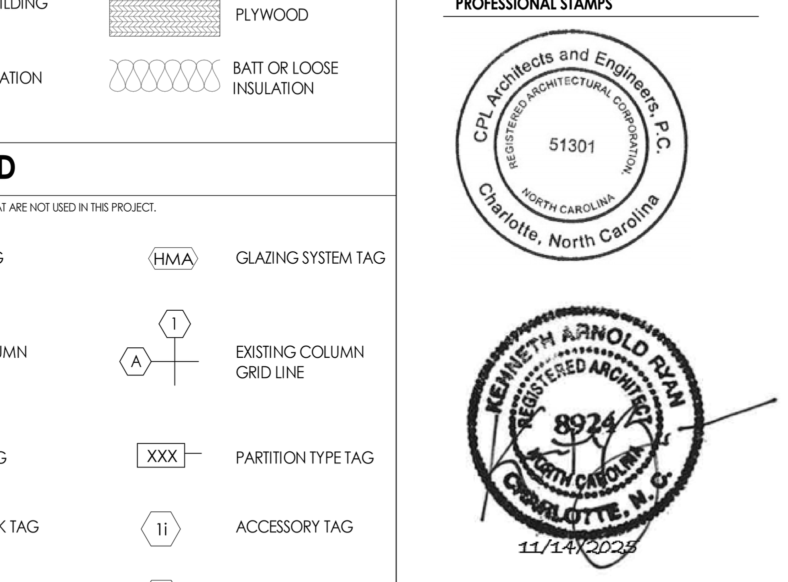
PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS



SHEET INFORMATION

Issued	Scale
11/14/2025	As indicated

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By	Checked By
CPL	CPL

Drawing Title
DRAWING LIST & ABBREVIATIONS

Drawing Number
-
G001

11/12/2025 11:11:24 AM PROJECT FILES ON ACC

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: CATH LAB RENOVATION
Address: 2700 WAYNE MEMORIAL DRIVE
Proposed Use: HOSPITAL - INSTITUTIONAL
Owner / Authorized Agent: TIM PARNELL Phone #: 919-587-4363 Email: tim.parnell@unchealth.unc.edu
Owned By: ■ City/County ■ Private ☐ State
Code Enforcement Jurisdiction: ■ City GOLDSBORO ☐ County WAYNE ■ State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	PHONE	EMAIL
Architectural	CPL	KENNETH RYAN	8924	704-706-5570	KRYAN@CPLTEAM.COM
Civil	-	-	-	-	-
Electrical	DEVITA	SHANNON EPPS	029811	864-720-2819	SEPPS@DEVITAINC.COM
Fire Alarm	DEVITA	SHANNON EPPS	029811	864-720-2819	SEPPS@DEVITAINC.COM
Plumbing	CPL	GREG KYZER	27581	864-385-3980	GKYZER@CPLTEAM.COM
Mechanical	CPL	GREG KYZER	27581	864-385-3980	GKYZER@CPLTEAM.COM
Fire Protection	CPL	GREG KYZER	27581	864-385-3980	GKYZER@CPLTEAM.COM
Structural	CPL	BRIAN COONEY	051272	585-472-7508	BCOONEY@CPLTEAM.COM
Retaining Walls	N/A	N/A	N/A	N/A	N/A
Other	-	-	-	-	-

2018 NC BUILDING CODE:
☐ New Building ☐ Addition ■ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE:
☐ Prescriptive ☐ Repair ☐ Chapter 14
☐ Level I ■ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: 2016 **CURRENT OCCUPANCY: (Ch. 3)** INSTITUTIONAL
RENOVATED: 2025 **PROPOSED OCCUPANCY: (Ch. 3)** INSTITUTIONAL
RISK CATEGORY: (TABLE 1604.5) Current: ☐ I ☐ II ☐ III ■ IV
Proposed: ☐ I ☐ II ☐ III ■ IV

BASIC BUILDING DATA:
Construction Type: (check all that apply) ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ■ I-B ☐ II-B ☐ III-B ☐ V-B

Sprinklers: ■ Yes ☐ Partial ☐ No ■ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ■ Yes ☐ No **Class:** ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☐ Yes ■ No **Flood Hazard Area:** ☐ Yes ■ No
Special Inspections Required: ☐ Yes ☐ No
Contact the local inspection jurisdiction for additional procedures and requirements

GROSS BUILDING AREA TABLE

FLOOR	EXISTING TO REMAIN (SQ FT)	NEW (SQ FT)	RENOVATION (SQ FT)	SUB TOTAL
EIGHTH FLOOR	0 SF	0 SF	0 SF	0 SF
SEVENTH FLOOR	0 SF	0 SF	0 SF	0 SF
SIXTH FLOOR	0 SF	0 SF	0 SF	0 SF
FIFTH FLOOR	0 SF	0 SF	0 SF	0 SF
FOURTH FLOOR	0 SF	0 SF	0 SF	0 SF
THIRD FLOOR	0 SF	0 SF	0 SF	0 SF
SECOND FLOOR	0 SF	0 SF	0 SF	0 SF
FIRST FLOOR	276,674 SF	0 SF	2,108 SF	278,782 SF
BASEMENT	0 SF	0 SF	0 SF	0 SF
TOTALS	**276,674 SF**	**0 SF**	**2,108 SF**	**278,782 SF**

ALLOWABLE AREA
Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ 1 ☐ 2
■ I-2 ☐ 1 ☐ 2
☐ I-3 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility & Miscellaneous ☐
Accessory Occupancy Classifications:
Incidental Uses (Table 509):
Special Uses (Chapter 4 - List Code Sections):
Special Provisions: (Chapter 5 - List Code Sections):
Mixed Occupancy: ☐ Yes ■ No Separation: Exception:
☐ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
EIGHTH	Description & Use	0 SF	0 SF	0 SF	0 SF
SEVENTH	Description & Use	0 SF	0 SF	0 SF	0 SF
SIXTH	Description & Use	0 SF	0 SF	0 SF	0 SF
FIFTH	Description & Use	0 SF	0 SF	0 SF	0 SF
FOURTH	Description & Use	0 SF	0 SF	0 SF	0 SF
THRID	Description & Use	0 SF	0 SF	0 SF	0 SF
SECOND	Description & Use	0 SF	0 SF	0 SF	0 SF
FIRST	Description & Use	0 SF	0 SF	0 SF	0 SF
BASEMENT	Description & Use	0 SF	0 SF	0 SF	0 SF

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 100 ft (F)
b. Total Building Perimeter = 200 ft (P)
c. Ratio (F/P) = 0.5 (F/P)
d. W= Minimum width of public way = 20 ft (W)
e. Percent of frontage increase $I_f = 100 [\frac{F}{P} - 0.25] \times \frac{W}{30} =$ (%)
$I_f = 100[\frac{100 ft}{200 ft} - 0.25] \times \frac{20 ft}{30} = 16.7$ (%)
[2] Unlimited area applicable under conditions of Section 507
[3] Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2

ALLOWABLE HEIGHT

	ALLOWABLE HEIGHT			CODE REFERENCE
Building Height in Feet (Table 504.3)[1]	-	-	-	Code Reference
Building Height in Stories (Table 504.4)[2]	-	-	-	Code Reference

[1] Provide code reference if the "Shown no Plans" quantity is not based on Table 504.3 or 504.4
[2] The maximum height of air traffic control towers must comply with Table 412.3.1
[3] The maximum height of open parking garage must comply with Table 406.5.4

EXISTING - NO CHANGE

1-B

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ REDUCTION)*	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN# FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	-	2	2-ETR	N/A	N/A	N/A	N/A
Bearing Walls	-	-	-	-	-	-	-
Exterior	-	-	-	-	-	-	-
North	-	-	-	-	-	-	-
East	-	-	-	-	-	-	-
West	-	-	-	-	-	-	-
South	-	-	-	-	-	-	-
Interior	-	-	-	-	-	-	-
Nonbearing Walls and Partitions	-	-	-	-	-	-	-
Exterior	-	-	-	-	-	-	-
North	-	-	-	-	-	-	-
East	-	-	-	-	-	-	-
West	-	-	-	-	-	-	-
South	-	-	-	-	-	-	-
Interior walls and partitions	-	-	-	-	-	-	-
Floor Construction Including supporting beams and joists	-	2	2-ETR	A403	N/A	C-AJ-5090	N/A
Floor Ceiling Assembly	-	-	-	-	-	-	-
Columns Supporting Floors	-	-	-	-	-	-	-
Roof Construction Including supporting beams and joists	-	1	1-ETR	N/A	N/A	N/A	N/A
Roof Ceiling Assembly	-	-	-	-	-	-	-
Columns Supporting Roofs	-	-	-	-	-	-	-
Shaft Enclosures - Exit	-	2	2-ETR	A403	N/A	W-L-1040	N/A
Shaft Enclosures - Other	-	2	2-ETR	A403	N/A	W-L-1040	N/A
Corridor Separation	-	0	SMOKE TIGHT	-	-	-	-
Occupancy/Fire Barrier Separation	-	-	-	-	-	-	-
Party/Fire Wall Separation	-	-	-	-	-	-	-
Smoke Barrier Separation	-	1	1-ETR	A403	N/A	W-L-1040	N/A
Smoke Partition	-	-	-	-	-	-	-
Tenant/Dwelling Unit/ Sleeping Unit Separation	-	-	-	-	-	-	-
Incidental Use Separation	-	1	1-ETR	A403	N/A	W-L-1040	N/A

*Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION	ALLOWABLE AREA	ACTUAL SHOWN ON PLANS (%)
-	-	-	-
-	-	-	-
-	-	-	-

EXISTING - NO CHANGE

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: ■ Yes ☐ No
Exit Signs: ■ Yes ☐ No
Fire Alarm: ■ Yes ☐ No
Smoke Detection Systems: ■ Yes ☐ No ☐ Partial
Carbon Monoxide Detection: ☐ Yes ■ No

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: G100 & G100.1

■ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
■ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
☐ Occupant loads for each area
■ Exit access travel distance (1017)
■ Common path of travel distance (Tables 1006.2.1 & 1006.3.2(1))
■ Dead end lengths (1020.4)
■ Clear exit widths for each exit door
■ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
■ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
■ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

Section/Table/Note	Title
-	-
-	-
-	-
-	-
-	-
-	-

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACE REQUIRED	TOTAL # OF PARKING SPACE PROVIDED	# OF ACCESSIBLE SPACES PROVIDED REGULAR	# OF ACCESSIBLE SPACES PROVIDED VAN 132" ACCESS AISLE	# OF ACCESSIBLE SPACES PROVIDED WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
LOT 1	0	0	0	0	0	0
LOT 2	0	0	0	0	0	0
LOT 3	0	0	0	0	0	0
LOT 4	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

EXISTING - NO CHANGE

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	WATER CLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SLEEP CLINIC	EXISTG	-	-	-	-	-	-	-	-	-	-
	NEW	-	-	-	-	-	-	-	-	-	-
	REQ'D	-	-	-	-	-	-	-	-	-	-

EXISTING - NO CHANGE

SPECIAL APPROVALS
Special approval: (Location Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)
N/A

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the **North Carolina Energy Conservation Code** shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)
Exempt Building: ☐ No ☐ Yes (Provide code or statutory reference): -
Climate Zone: ☐ 3A ☐ 4A ☐ 5A
Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify source here) -

THERMAL ENVELOPE: (Prescriptive method only)
Roof/ceiling Assembly (each assembly)
Description of assembly: -
U-Value of total assembly: -
R-Value of insulation: -
Skylights in each assembly: -
U-Value of skylight: -
Total square footage of skylights in each assembly: -

Exterior Walls (each assembly)
Description of assembly: -
U-Value of total assembly: -
R-Value of insulation: -
Openings (windows or doors with glazing)
U-Value of total assembly: -
Solar heat gain coefficient: -
Projection factor: -
Door R-Values: -

Walls below grade (each assembly)
Description of assembly: -
U-Value of total assembly: -
R-Value of insulation: -

Floors over unconditioned space (each assembly)
Description of assembly: -
U-Value of total assembly: -
R-Value of insulation: -

Floors slab on grade
Description of assembly: -
U-Value of total assembly: -
R-Value of insulation: -
Horizontal/vertical requirement: -
Slab heated: -

EXISTING - NO CHANGE

INFECTION CONTROL RISK ASSESSMENT
CENTERS FOR DISEASE CONTROL AND PREVENTION'S INFECTION CONTROL RISK ASSESSMENT MATRIX OF PRECAUTIONS FOR CONSTRUCTION & RENOVATION

CONSTRUCTION & RENOVATION TYPE:
TYPE D -MAJOR DEMOLITION AND CONSTRUCTION ACTIVITIES:
INCLUDES, BUT IS NOT LIMITED TO:
• REMOVAL OR REPLACEMENT OF BUILDING SYSTEM COMPONENT(S).
• REMOVAL/INSTALLATION OF DRYWALL PARTITIONS.
• INVASIVE LARGE-SCALE NEW BUILDING CONSTRUCTION.
• RENOVATION WORK IN TWO OR MORE ROOMS.

HIGHEST RISK: PROCEDURAL, INVASIVE, STERILE SUPPORT AND HIGHLY COMPROMISED PATIENT CARE AREAS SUCH AS:
• ALL TRANSPLANT AND INTENSIVE CARE UNITS.
• ALL ONCOLOGY UNITS.
• OR THEATERS AND RESTRICTED AREAS.
• PROCEDURAL SUITES.
• PHARMACY COMPOUNDING.
• STERILE PROCESSING DEPARTMENT (CLEAN SIDE).
• TRANSFUSION SERVICES.
• DEDICATED ISOLATION WARDS/UNITS.
• IMAGING SUITES: INVASIVE IMAGING.

CLASS OF PRECAUTIONS (LEVEL OF INFECTION CONTROL ACTIVITIES REQUIRED):
*INFECTION CONTROL APPROVAL WILL BE REQUIRED WHEN CLASS OF PRECAUTIONS III (TYPE C) AND ALL CLASS IV OR V ARE NECESSARY.

HIGHEST RISK GROUP / TYPE D: CLASS V

DESCRIPTION OF REQUIRED INFECTION CONTROL PRECAUTIONS BY CLASS:
CLASS V:
PERFORMED BEFORE AND DURING WORK ACTIVITY:
1. CONSTRUCT AND COMPLETE CRITICAL BARRIERS MEETING NFPA 241 REQUIREMENTS INCLUDING: BARRIERS MUST EXTEND TO THE CEILING OR, IF CEILING TILE IS REMOVED, TO THE DECK ABOVE, AND ALL PENETRATIONS THROUGH THE BARRIER SHALL MEET THE APPROPRIATE FIRE RATING REQUIREMENTS.
2. ALL (PLASTIC OR HARD) BARRIER CONSTRUCTION ACTIVITIES MUST BE COMPLETED IN A MANNER THAT PREVENTS DUST RELEASE. PLASTIC BARRIERS MUST BE EFFECTIVELY AFFIXED TO GROUND AND CEILING AND SECURE FROM MOVEMENT OR DAMAGE. APPLY TAPE THAT WILL NOT LEAVE RESIDUE TO SEAL GAPS BETWEEN BARRIERS, CEILING OR FLOOR.
3. SEAL ALL PENETRATIONS IN CONTAINMENT BARRIERS, ANTEROOM BARRIERS, INCLUDING FLOORS AND CEILING USING APPROVED MATERIALS (UL SCHEDULE FIRESTOP IF APPLICABLE FOR BARRIER TYPE).
4. CONSTRUCT ANTEROOM LARGE ENOUGH FOR EQUIPMENT STAGING, CART CLEANING, WORKERS. THE ANTEROOM MUST BE CONSTRUCTED ADJACENT TO THE ENTRANCE OF THE CONSTRUCTION WORK AREA.
5. PERSONNEL WILL BE REQUIRED TO WEAR DISPOSABLE COVERALLS AT ALL TIMES DURING CLASS V WORK ACTIVITIES. DISPOSABLE COVERALLS MUST BE REMOVED BEFORE LEAVING THE ANTEROOM.
6. REMOVE OR ISOLATE RETURN AIR DIFFUSERS TO AVOID DUST ENTERING THE HVAC SYSTEM.
7. REMOVE OR ISOLATE THE SUPPLY AIR DIFFUSERS TO AVOID POSITIVE PRESSURIZATION OF THE SPACE.
8. NEGATIVE AIRFLOW PATTERN MUST BE MAINTAINED FROM THE ENTRY POINT TO THE ANTEROOM AND INTO THE CONSTRUCTION AREA. THE AIRFLOW MUST CASCADE FROM OUTSIDE TO INSIDE THE CONSTRUCTION AREA. THE ENTIRE CONSTRUCTION AREA MUST REMAIN NEGATIVELY PRESSURIZED.
9. MAINTAIN NEGATIVE PRESSURIZATION OF THE ENTIRE WORKSPACE USING HEPA EXHAUST AIR SYSTEMS DIRECTED OUTDOORS. EXHAUST DISCHARGEDDIRECTLY TO THE OUTDOORS THAT IS 25 FEET OR GREATER FROM ENTRANCES, AIR INTAKES AND WINDOWS DOES NOT REQUIRE HEPA-FILTERED AIR.
10. IF EXHAUST IS DIRECTED INDOORS, THAN THE SYSTEM MUST BE HEPA FILTERED. PRIOR TO START OF WORK, HEPA FILTRATION MUST BE VERIFIED BY PARTICULATE MEASUREMENT AS NO LESS THAN 99.97% EFFICIENCY AND MUST NOT ALTER OR CHANGE AIRFLOW/PRESSURE RELATIONSHIPS IN OTHER AREAS.
11. EXHAUST INTO SHARED OR RECIRCULATION HVAC SYSTEMS, OR OTHER SHARED EXHAUST SYSTEMS (BATHROOM EXHAUST) IS NOT ACCEPTABLE.
12. INSTALL DEVICE ON EXTERIOR OF WORK CONTAINMENT TO CONTINUALLY MONITOR NEGATIVE PRESSURIZATION. TO ASSURE PROPER PRESSURE IS CONTINUOUSLY MAINTAINED, IT IS RECOMMENDED THAT THE DEVICE(S) HAVE A VISUAL PRESSURE INDICATOR.
13. CONTAIN ALL TRASH AND DEBRIS IN THE WORK AREA.
14. NONPOROUS/SMOOTH AND CLEANABLE CONTAINERS (WITH A HARD LID) MUST BE USED TO TRANSPORT TRASH AND DEBRIS FROM THE CONSTRUCTION AREAS. THESE CONTAINERS MUST BE DAMP-WIPED CLEANED AND FREE OF VISIBLE DUST/DEBRIS BEFORE LEAVING THE CONTAINED WORK AREA.
15. WORKER CLOTHING MUST BE CLEAN AND FREE OF VISIBLE DUST BEFORE LEAVING THE WORK AREA ANTEROOM
16. WORKERS MUST WEAR SHOE COVERS PRIOR TO ENTRY INTO THE WORK AREA. SHOE COVERS MUST BE CHANGED PRIOR TO EXITING THE ANTEROOM TO THE OCCUPIED SPACE (NON-WORK AREA). DAMAGED SHOE COVERS MUST BE IMMEDIATELY CHANGED.
17. INSTALL AN ADHESIVE (DUST COLLECTION) MAT AT ENTRANCE OF CONTAINED WORK AREA BASED ON FACILITY POLICY. ADHESIVE MATS MUST BE CHANGED ROUTINELY AND WHEN VISIBLY SOILED.
18. CONSIDER COLLECTION OF PARTICULATE DATA DURING WORK TO MONITOR AND ENSURE CONTAMINATES DO NOT ENTER THE OCCUPIED SPACES. ROUTINE COLLECTION OF PARTICULATE SAMPLES MAY BE USED TO VERIFY HEPA FILTRATION EFFICIENCIES.

UPON COMPLETION OF PROJECT:
CLASSES III, IV AND V-CLASS III (TYPE C ACTIVITIES ONLY), IV, AND V PRECAUTIONS REQUIRE INSPECTION AND DOCUMENTATION FOR DOWNGRADED ICRA PRECAUTIONS.
CONSTRUCTION AREAS MUST BE INSPECTED BY AN INFECTION PREVENTIONIST OR DESIGNEE AND ENGINEERING REPRESENTATIVE FOR DISCONTINUATION OR DOWNGRADING OF ICRA PRECAUTIONS.
WORK AREA CLEANING:
1. CLEAN WORK AREAS INCLUDING ALL ENVIRONMENTAL SURFACES, HIGH HORIZONTAL SURFACES AND FLOOR MATERIALS.
2. CHECK ALL SUPPLY AND RETURN AIR REGISTERS FOR DUST ACCUMULATION ON UPPER SURFACES AS WELL AS AIR DIFFUSER SURFACES.
REMOVAL OF CRITICAL BARRIERS:
1. CRITICAL BARRIERS MUST REMAIN IN PLACE DURING ALL WORK INVOLVING DRYWALL REMOVAL, CREATION OF DUST AND ACTIVITIES BEYOND SIMPLE TOUCH-UP WORK. THE BARRIER MAY NOT BE REMOVED UNTIL A WORK AREA CLEANING HAS BEEN PERFORMED.
2. ALL (PLASTIC OR HARD) BARRIER REMOVAL ACTIVITIES MUST BE COMPLETED IN A MANNER THAT PREVENTS DUST RELEASE. USE THE FOLLOWING PRECAUTIONS WHEN REMOVING HARD BARRIERS:
i. CAREFULLY REMOVE SCREWS AND PAINTER TAPE.
ii. IF DUST WILL BE GENERATED DURING SCREW REMOVAL, USE HAND-HELD HEPA VACUUM.
iii. DRYWALL CUTTING IS PROHIBITED DURING REMOVAL PROCESS.
iv. CLEAN ALL STUD TRACKS WITH HEPA VACUUM BEFORE REMOVING OUTER HARD BARRIER.
v. USE A PLASTIC BARRIER TO ENCLOSE AREA IF DUST COULD BE GENERATED.
NEGATIVE AIR REQUIREMENTS:
1. THE USE OF NEGATIVE AIR MUST BE DESIGNED TO REMOVE CONTAMINATES FROM THE WORK AREA.
2. NEGATIVE AIR DEVICES MUST REMAIN OPERATIONAL AT ALL TIMES AND IN PLACE FOR A PERIOD AFTER COMPLETION OF DUST CREATING ACTIVITIES TO REMOVE CONTAMINANTS FROM THE WORK AREA AND BEFORE REMOVAL OF CRITICAL BARRIERS.
HVAC SYSTEMS:
1. UPON REMOVAL OF CRITICAL BARRIERS, REMOVE ISOLATION HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.
2. VERIFY THAT HVAC SYSTEMS ARE CLEAN AND OPERATIONAL.
3. VERIFY THAT HVAC SYSTEMS MEET ORIGINAL AIRFLOW AND AIR EXCHANGE DESIGN SPECIFICATIONS.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:
Importance Factors: Snow (I_S) Seismic (I_E)
Live Loads: Roof psf Mezzanine psf Floor psf
Ground Snow Load: psf
Wind Load: Ultimate Wind Speed (ASCE-7) Exposure Category
SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☐ II ☐ III ☐ IV
Spectral Response Acceleration %g S_1 %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data
Basic structural system ☐ Bearing Wall ☐ Dual w/Special Moment Frame ☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel ☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☐ No
LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☐
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) - psf
Presumptive Bearing capacity - psf
Pile size, type, and capacity -

EXISTING - NO CHANGE

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone
winter dry bulb: -
summer dry bulb: -
Interior design conditions
winter dry bulb: -
summer dry bulb: -
relative humidity: -
Building heating load: -
Building cooling load: -
Mechanical Spacing Condition System
Unitary
description of unit: -
heating efficiency: -
cooling efficiency: -
size category of unit: -
Boiler
Size category. If oversized, state reason: -
Chiller
Size category. If oversized, state reason: -
List equipment efficiencies: -

SEE MECHANICAL SHEETS

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code ■ Performance ☐ Prescriptive
ASHRAE 90.1 ■ Performance ☐ Prescriptive
Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Lighting schedule Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 Reduced Lightning Power Density
☐ C406.4 Enhanced Digital Lighting Control
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

PROJECT INFORMATION
FID #: 933535
CON NUMBER- PROJECT ID #: P-12569-24
2012 EDITION NFPA 101 LIFE SAFETY CODE: CHAPTER 18/19 NEW AND EXISTING HEALTH CARE OCCUPANCIES
2022 EDITION FGI GUIDELINES: HOSPITALS AND OUTPATIENT FACILITIES:
EXAMINATION, PROCEDURE, AND OPERATING ROOM CLASSIFICATION (TABLE 2.2-1)
PROCEDURE ROOM
CLASSIFICATION OF ROOM TYPES FOR IMAGING SERVICES (TABLE .2-2):
CLASS 2 IMAGING ROOM
2018 IBC CODE FOR : NEW CONSTRUCTION - RENOVATION I-2
2018 IEBC: ALTERATIONS

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number: R25.18089.00
Client Name: UNC HEALTH WAYNE
Project Name: CATH LAB RENOVATION
Project Address: 2700 WAYNE MEMORIAL DRIVE GOLDSBORO, NC 27533
CON Number: P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
Date Description

PROFESSIONAL STAMPS
CPL Architects and Engineers, P.C. REGISTERED ARCHITECTURAL CORPORATION 51301 NORTH CAROLINA Charlotte, North Carolina
KENNETH ARNOLD RYAN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C. 11/14/2025

SHEET INFORMATION
Issued: 11/14/2025 Scale:
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: KG Checked By: MG
Drawing Title: NORTH CAROLINA - 2018 APPENDIX B - BUILDING CODE SUMMARY
Drawing Number: G002

11/12/2025 11:11:26 AM PROJECT FILES ON ACC

ARCHITECTURAL SPECIFICATIONS

NOTE: SEE DOOR SCHEDULE & COLOR SCHEDULE FOR FINISHES PRODUCT INFORMATION NOT LISTED BELOW

DIVISION 1 GENERAL REQUIREMENTS
01000 GENERAL CONDITIONS

1- AIA DOCUMENT A201 GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, MOST CURRENT EDITION, IS INCORPORATED INTO THIS CONTRACT IN FULL

01 33 00 SUBMITTAL PROCEDURES

1- SUBMITTALS ARE REQUIRED FOR ALL PRODUCTS USED IN THE PROJECT AS LISTED BELOW. PROVIDE ADEQUATE TIME FOR REVIEW AND RESUBMISSION WHEN SCHEDULING SUBMITTALS.

2- SUBSTITUTIONS MUST BE ACCOMPANIED BY SUPPORTING DOCUMENTATION DEMONSTRATING COMPLIANCE WITH SPECIFIED CRITERIA OR PRODUCT QUALITY.

3- SUBMITTALS REQUIRED:
03 54 13 GYPSUM CEMENT UNDERLAYMENT
05 50 00 METAL FABRICATIONS
06 10 53 MISCELLANEOUS ROUGH CARPENTRY
06 41 16 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS
07 21 00 BUILDING INSULATION
07 72 00 ROOF ACCESSORIES
07 81 00 APPLIED FIRE PROTECTION
07 84 13 PENETRATION FIRESTOPPING
07 92 00 JOINT SEALANTS
08 11 13 HOLLOW METAL DOORS AND FRAMES
08 14 16 FLUSH WOOD DOORS
08 71 00 DOOR HARDWARE
08 80 00 GLAZING
09 22 16 NON-STRUCTURAL METAL FRAMING
09 29 00 GYPSUM BOARD
09 51 13 ACOUSTICAL PANEL CEILINGS
09 65 13 RESILIENT BASE AND ACCESSORIES
09 65 16 RESILIENT SHEET FLOORING
09 91 23 INTERIOR PAINTING
10 21 23 CUBICLE CURTAIN AND TRACK
10 26 00 WALL AND DOOR PROTECTION
13 49 00 RADIATION PROTECTION

4- SEE DIVISIONS 21, 22, 23 AND 26, 27, 28 FOR ADDITIONAL SUBMITTALS

01 40 00 QUALITY REQUIREMENTS

1- QUALITY CONTROL SERVICES SHALL INCLUDE TESTS, INSPECTIONS, PROCEDURES AND RELATED ACTIONS BEFORE, DURING AND AFTER EXECUTION OF THE WORK TO EVALUATE AND GUARD AGAINST DEFECTS AND DEFICIENCIES

2- COORDINATE WITH TESTING AGENCY FOR FIRESTOPPING TESTING AND INSPECTIONS, APPLIED FIREPROOFING, INSTALLER QUALIFICATIONS AND INSPECTION REPORTS AND FOR CONCRETE TESTING AND INSPECTION.

3- THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH COPIES OF ALL REPORTS ON TEST AND INSPECTION RESULTS, CERTIFICATIONS AND SIMILAR DOCUMENTS ESTABLISHED FOR COMPLIANCE STANDARDS.

01 50 00 TEMPORARY FACILITIES AND CONTROLS

1- IF THE BUILDING, ADJACENT SPACE OR WORK AREA IS TO REMAIN OCCUPIED DURING CONSTRUCTION THEN ERECT AND MAINTAIN TEMPORARY DUSTPROOF 'HARD-WALL' PARTITIONS AND TEMPORARY ENCLOSURES TO LIMIT DUST AND DIRT MIGRATION, AND TO SEPARATE AREAS FROM FUMES AND NOISE. INSULATE PARTITIONS TO PROVIDE NOISE PROTECTION TO OCCUPIED AREAS. SEAL JOINTS AND PERIMETER. EQUIP PARTITIONS WITH DUSTPROOF DOORS.

2- WHEN PLACING TEMPORARY PARTITIONS, THE GENERAL CONTRACTOR SHALL MAINTAIN ALL REQUIRED AND APPROPRIATE MEANS OF EGRESS.

01733 CUTTING AND PATCHING

1- DO NOT CUT AND PATCH CONSTRUCTION IN A MANNER THAT RESULTS IN VISUAL EVIDENCE OF CUTTING AND PATCHING

2- DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A MANNER THAT COULD CHANGE THEIR LOAD-CARRYING CAPACITY OR LOAD-DEFLECTION RATIO. IF ADDING REINFORCEMENT TO STRUCTURAL ELEMENTS, SUBMIT DETAILS AND ENGINEERING CALCULATIONS SHOWING INTEGRATION WITH ORIGINAL STRUCTURE.

3- PROVIDE TEMPORARY SUPPORT OF WORK TO BE CUT.

4- CUT EXISTING CONSTRUCTION BY SAWING, DRILLING, BREAKING, CHIPPING, GRINDING, AND SIMILAR OPERATIONS, INCLUDING EXCAVATION, USING METHODS LEAST LIKELY TO DAMAGE ELEMENTS RETAINED TO ADJOURNING CONSTRUCTION.

5- PATCH EXISTING CONSTRUCTION BY FILLING, REPAIRING, REFINISHING, CLOSING UP, AND SIMILAR OPERATIONS FOLLOWING PERFORMANCE OF OTHER WORK.

01 77 00 CLOSEOUT PROCEDURE

1- THE GENERAL CONTRACTOR SHALL PROVIDE WARRANTIES, RECORD DRAWINGS (AS-BUILTS), OPERATION AND MAINTENANCE MANUALS TO OWNER WITHIN 2 WEEKS OF PROJECT COMPLETION. PROVIDE FINAL CLEANING UPON SUBSTANTIAL COMPLETION.

DIVISION 2 EXISTING CONDITIONS
02 41 19 SELECTIVE DEMOLITION

1- SEE GENERAL DEMOLITION NOTES FOR WORK COVERED OR NOT MENTIONED UNDER THIS SECTION.

2- MAINTAIN EXISTING INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO UTILITY SERVICING ADJACENT PATIENT CARE AREAS. WHERE UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE TO OTHER PARTS OF THE BUILDING BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.

3- PROTECT WALLS, CEILINGS, FLOORS AND OTHER EXISTING FINISH WORK THAT ARE TO REMAIN AND ARE EXPOSED DURING SELECTIVE DEMOLITION OPERATIONS. PROPERLY PATCH AND REPAIR HOLES AND DAMAGED SURFACES CAUSED TO ADJACENT CONSTRUCTION BY SELECTIVE OPERATIONS.

DIVISION 3 CONCRETE
03 54 13 SELF-LEVELING UNDERLAYMENT

1- SELF-LEVELING UNDERLAYMENT: HIGH STRENGTH, CEMENT-BASED, NON-SHRINK, SELF-LEVELING UNDERLAYMENT.
A- PROVIDE OVER EXTENDED AREAS OF UNACCEPTABLE SUBSTRATE FOR FINISH FLOORING.
B- PERFORMANCE REQUIREMENTS:
a. COMPRESSIVE STRENGTH (28 DAYS): MINIMUM 4,100 PSI.
C- PRODUCT SELECTION:
a. K-15 BY ARDEX, INC.
b. UZIN NC 170 LEVELSTAR BY UFLOOR SYSTEMS, INC.
ii. UZIN PE 260 SUBSTRATE PRIMER SHALL BE USED IN CONJUNCTION WITH UZIN NC 170.
D- SUBSTITUTIONS: SUBSTITUTIONS AS APPROVED BY ARCHITECT.

DIVISION 6 WOOD, PLASTICS AND COMPOSITION
06 10 00 ROUGH CARPENTRY

1- PROVIDE FIRE RESISTANT/ TREATED WOOD, NAILS, BOLTS, SCREWS, FRAMING ANCHORS AND OTHER ITEMS AND PERFORM ROUGH CARPENTRY FOR THE CONSTRUCTION SHOWN ON THE DRAWINGS.

2- FIRE RETARDANT TREATED MATERIALS SHALL MEET WITH THE PERFORMANCE REQUIREMENTS IN AWPA C20 (LUMBER) AND AWPA C27 (PLYWOOD). IDENTIFY FIRE RETARDANT - TREATED WOOD WITH APPROPRIATE MARKING OF UL, US TESTING, TIMBER PRODUCTS INSPECTION, OR ANOTHER AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. USE INTERIOR TYPE A HIGH TEMPERATURE, UNLESS OTHERWISE INDICATED.

3- ALL LUMBER AND PLYWOOD OR SIMILAR RESTING ON CONCRETE, MASONRY, IN CONTACT WITH THE GROUND OR SUBJECT TO MOISTURE AND LIQUID WATER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA REGULATIONS.

4- PROVIDE BLOCKING OR GROUNDS FOR ALL TOILET ACCESSORIES, CLOSET RODS AND SHELVES, ETC. PROVIDE 1/2" FIRE RETARDANT PLYWOOD GROUNDS IN PLACE OF DRYWALL BEHIND ALL TRIM AND MOULDING WHERE METAL STRAPPING IS NOT PRACTICAL. PROVIDE FULL HEIGHT FIRE RETARDANT WOOD STUDS NESTLED INTO METAL STUDS AT ALL DOOR JAMBS.

5- PROVIDE TELEPHONE AND ELECTRICAL EQUIPMENT BACKING PANELS CONSISTING OF DOC PS 1, EXPOSURE 1, C-D PLUGGED, FIRE RETARDANT TREATED 3/4" PLYWOOD, UNLESS NOTED OTHERWISE.

06 40 23 INTERIOR ARCHITECTURAL WOODWORK

1- WHERE PLASTIC LAMINATE ARCHITECTURAL MILLWORK IS SHOWN ON DRAWINGS, IT IS TO BE AWI CUSTOM GRADE STANDARDS, FLUSH OVERLAY CONSTRUCTION UNLESS OTHERWISE NOTED. ALL SUBSTRATE TO BE A MINIMUM OF 3/4" INDUSTRIAL GRADE PARTICLE BOARD, EXCEPT PROVIDE 3/4" MARINE GRADE PLYWOOD AT COUNTERTOPS WHERE SINKS ARE LOCATED. INTERIORS MAY BE OF MELAMINE.

2- ALL BASE CABINETS TO BE 24 INCHES DEEP OVERALL, ALL WALL CABINETS TO HAVE 15 INCH CLEAR DEPTH INSIDE, AND ALL COUNTERTOPS TO BE 25 INCHES DEEP OVERALL UNLESS OTHERWISE NOTED ON DRAWINGS.

3- PROVIDE ALL HARDWARE REQUIRED FOR PROPER OPERATION AND USE OF WOODWORK, INCLUDING HINGES, DRAWER SLIDES, PULLS, ETC. ALL DOORS AND DRAWERS TO BE LOCKING. HARDWARE TO BE **AMEROCK**. HINGES TO BE 135 DEGREE OPENING AND SELF CLOSING. DRAWING SLIDES TO BE 45 LB FULL EXTENSION FOR PENCIL DRAWERS, 75 LB FULL EXTENSION FOR BOX DRAWERS AND 150 LB FULL EXTENSION FOR FILE DRAWERS. ALL DRAWERS AND DOORS TO BE LOCKING WITH KEYING SYSTEM PER OWNERS REQUIREMENTS.

4- SHOP DRAWINGS AND FINISH SAMPLES ARE REQUIRED FOR ALL ARCHITECTURAL WOODWORK ITEMS. FABRICATOR MUST BE AN AWI MEMBER. INDICATE SUBSTRATE, HARDWARE, SUPPORTS, FIELD SCRIBES, ETC.

5- SCRIBE AND CUT WOODWORK TO FIT ADJOINING WORK. ALL FASTENING HARDWARE TO BE CONCEALED. PROVIDE VARNISH SEAL AT ALL SHOP AND FIELD CUTOUTS FOR SINKS, PLUMBING, ETC AT EXPOSED EDGES.

6- WHERE GLASS IS SHOWN IN MILLWORK, PROVIDE 1/4" LAMINATED SAFETY GLASS WITH POLISHED EDGES.

7- WHERE SOLID SURFACING IS SHOWN ON DRAWINGS, PROVIDE MINIMUM 1/2" COUNTERTOPS, TRANSACTION COUNTERS, ETC. FINISH, SEAM AND INSTALL SOLID SURFACING IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. FABRICATOR TO BE CERTIFIED BY MANUFACTURER.

8- DO NOT DELIVER OR INSTALL ARCHITECTURAL WOODWORK UNTIL BUILDING IS WEATHER TIGHT AND HVAC SYSTEM IS OPERATING AND MAINTAINING PROPER TEMPERATURE AND HUMIDITY LEVELS. INSTALL WOODWORK PLUMB, LEVEL AND TRUE TO WITHIN 1/8" IN 10'-0".

9- COORDINATE REQUIRED GROUNDS AND BLOCKING WITH ROUGH CARPENTRY. PROVIDE CONTINUOUS ZEE CLIPS AT ALL WALL CABINETS AND SIMILAR WALL MOUNTED MILLWORK. ZEE CLIPS TO BE DIRECTLY SECURED TO A MINIMUM OF 3 STUDS.

10- ALL MILLWORK TO BE BALANCED CONSTRUCTION.

11- PROVIDE FIRE RETARDANT PLASTIC LAMINATE WHERE WOODWORK COVERS MORE THAN 10 PERCENT OF A NON SPRINKLERED ROOM OR SPACE. PROVIDE FIRE RETARDANT PLYWOOD AT WOOD VENEER WHERE WOODWORK COVERS MORE THAN 10 PERCENT OF A NON SPRINKLERED ROOM OR SPACE.

12- PROVIDE GROMMETS AND COVERS 3'-0" O.C. AT WORK COUNTERS.

DIVISION 7 THERMAL & MOISTURE PROTECTION
07 21 00 THERMAL INSULATION

1- PROVIDE NON-FACED FRICTION FIT MINERAL OR GLASS FIBER SOUND ATTENUATION OR BUILDING BATT INSULATION AT ALL STUD CAVITIES AND ABOVE CEILINGS WHERE NOTED ON THE DRAWINGS. MANUFACTURER TO BE OWENS CORNING OR EQUAL

2- PROVIDE 3 1/2" SOUND BATT OR BUILDING INSULATION AT 4" AND 6" DEEP WALL STUD CAVITIES, AS NOTED.

3- PIPING AND DUCTWORK INSULATION IS SPECIFIED UNDER THE MECHANICAL DIVISIONS.

4- SUPPORT BATT BLANKETS MECHANICALLY AT 4'-0" O.C. VERTICALLY TO AVOID SAGGING AFTER GYPSUM INSTALLATION. FIT UNFACED BATT INTO VOIDS AND CAVITIES NOT SPECIFICALLY NOTED BUT REQUIRED TO ENSURE A PROPER FRICTION FIT AND CONTINUOUS INSULATION LAYER WITHOUT GAPS.

07 81 00 APPLIED FIRE PROTECTION

1- ALL NEW STRUCTURAL STEEL, METAL DECKING, LINTELS OVER 6'-0" LONG, STRUCTURAL BRACKETS, BRACING, ETC ARE TO RECEIVE FIREPROOFING EQUAL TO GRACE MONOKOTE MK-6 SERIES IN THE THICKNESS REQUIRED TO ACHIEVE THE FIRE RATINGS NOTED FOR EACH CONDITION. IF FIRE RATINGS ARE NOT NOTED, ASSUME A 2 HOUR RATING FOR BIDDING PURPOSES. ALL FIREPROOFING IS TO COMPLY WITH UL TEST NUMBERS SPECIFIED. INSTALLATION SHALL BE DONE BY A QUALIFIED INSTALLER, APPROVED BY MANUFACTURER TO INSTALL MANUFACTURER'S PRODUCTS.
-PATCH ALL EXISTING FIRE PROOFING PER **UL #N706**

2- EXPOSED FIRE PROOFING TO HAVE A CEMENTITIOUS OUTER COATING TO RESIST ABRASION.

3- CONFIRM THAT FIREPROOFING MATERIALS ARE COMPATIBLE WITH NON SHOP PRIMED STEEL. INSTALL METAL LATH OR SIMILAR TO BRIDGE SMALL GAPS AND VOIDS AROUND COLUMNS, EDGING, ETC.

4- MASK, COVER, OR SIMILARLY PROTECT ADJACENT WORK AND/OR FINISHED AREAS WHEN FIRE PROOFING. PROVIDE TEMPORARY BARRIERS IF WORKING ADJACENT TO FINISHED OR OCCUPIED SPACES.

5- DO NOT APPLY FIREPROOFING WHEN THE TEMPERATURE IS BELOW 40 DEGREES, OR IS EXPECTED TO FALL BELOW 40 DEGREES BEFORE THE AREA IS ENCLOSED AND HEATED. PROVIDE ADEQUATE VENTILATION BY USE OF NATURAL OR FORCED-AIR CIRCULATION UNTIL FIRE-RESTIVE MATERIAL DRIES THOROUGHLY. PROVIDE TEMPORARY ENCLOSURE AS REQUIRED TO CONFINE SPRAYING OPERATIONS AND PROTECT THE ENVIRONMENT.

6- DO NOT APPLY FIREPROOFING UNTIL OTHER TRADES' CLIPS, HANGERS, SUPPORTS, SLEEVES AND SIMILAR ARE IN PLACE. REPAIR OR REAPPLY FIREPROOFING DAMAGED OR REMOVED BY OTHER TRADES.

7- FIREPROOFING IS SUBJECT TO CONTROLLED INSPECTIONS BY THIRD PARTY AGENCY. DO NOT COVER OR OBSTRUCT UNTIL INSPECTION IS APPROVED. PROVIDE MANUFACTURER'S STANDARD WARRANTY SIGNED BY THE CONTRACTOR AND BY THE INSTALLER, IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE SPRAYED FIRE-RESISTIVE MATERIALS THAT FAIL IN MATERIALS WITHIN 2 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

07 84 00 FIRESTOPPING

1- PROVIDE FIRESTOPPING WHERE NOTED ON DRAWINGS, AND AT ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION INCLUDING FLOORS, CEILINGS, AND PARTITIONS.

2- IF FIRESTOP SYSTEMS ARE EXPOSED TO VIEW, TRAFFIC, MOISTURE, AND/OR PHYSICAL DAMAGE, PROVIDE PRODUCTS THAT AFTER CURING DO NOT DETERIORATE WHEN EXPOSED TO THESE CONDITIONS BOTH DURING AND AFTER CONSTRUCTION.

3- PROVIDE SUBMITTALS FOR EACH PRODUCT USED. A CERTIFICATION LETTER IS REQUIRED TO SHOW THAT ALL WORK WAS DONE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

4- MANUFACTURERS:
A. 3M FIRE PROTECTION PRODUCTS
B. SUBSTITUTIONS- AS APPROVED BY ARCHITECT.
C. ALL FIRE-SEALANTS SHALL BE RED IN COLOR -NO EXCEPTIONS.
D. ALL FIRE-SEALANT PRODUCTS SHALL BE FROM SAME MANUFACTURER.

5- PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS: PROVIDE PENETRATIONS FIRESTOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.01-ING WG.
A- FIRE-RESISTANCE-RATED WALLS INCLUDE FIRE WALLS FIRE-BARRIER WALLS SMOKE-BARRIER WALLS AND FIRE PARTITIONS AS INDICATED ON THE DRAWINGS.
B- F-RATING: NOT LESS THAN THE FIRE-RESISTANCE RATING OF CONSTRUCTIONS PENETRATED.

6- PENETRATIONS IN HORIZONTAL ASSEMBLIES: PROVIDE PENETRATION FIRESTOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.01-INCH WG.
A- HORIZONTAL ASSEMBLIES INCLUDE FLOORS FLOOR/CEILING ASSEMBLIES AND CEILING MEMBRANES OF ROOF/CEILING ASSEMBLIES AS INDICATED ON THE DRAWINGS.
B- F-RATING: AT LEAST 1-HOUR, BUT NOT LESS THAN THE FIRE-RESISTANCE RATING OF CONSTRUCTIONS PENETRATED.
C- T-RATING: AT LEAST 1-HOUR, BUT NOT LESS THAN THE FIRE-RESISTANCE RATING OF CONSTRUCTIONS PENETRATED EXCEPT FOR FLOOR PENETRATIONS WITHIN THE CAVITY OF A WALL.

7- EXPOSED PENETRATION FIRESTOPPING: PROVIDE PRODUCTS WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF LESS THAN 25 AND 450, RESPECTIVELY, AS DETERMINED PER ASTM E 84.

8- ACCESSORIES: PROVIDE COMPONENTS FOR EACH PENETRATION FIRESTOPPING SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS AND TO MAINTAIN RATINGS REQUIRED. USE ONLY THOSE COMPONENTS SPECIFIED BY PENETRATION FIRESTOPPING MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOPPING INDICATED.
A- PERMANENT FORMING/DAMMING/BACKING MATERIALS, INCLUDING THE FOLLOWING:
a. SLAG-WOOL-FIBER OR ROCK-WOOL-FIBER INSULATION.
b. SEALANTS USED IN COMBINATION WITH OTHER FORMING/DAMMING/BACKING MATERIALS TO PREVENT LEAKAGE OF FILL MATERIALS IN LIQUID STATE.
c. FIRE-RATED FORM BOARD.
d. FILLERS FOR SEALANTS.
B- TEMPORARY FORMING MATERIALS.
C- SUBSTRATE PRIMERS.
D- COLLARS.
E- STEEL SLEEVES.

07 53 23 ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING
PATCHING OF EXISTING ROOF

1- FURNISH AND INSTALL ADHERED ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOF SYSTEM.

2- EPDM SHALL BE ASTM D 4637, TYPE II, SCRIM OR FABRIC INTERNALLY REINFORCED, UNIFORM, FLEXIBLE EPDM SHEET. 60 MILS WITH EXPOSED FACE **BLACK** IN COLOR.

3- AUXILIARY ROOFING PRODUCTS INCLUDE 60-MIL THICK EPDM, PARTIALLY CURED OR CURED; MANUFACTURER'S STANDARD WATER BASED BONDING ADHESIVE; SINGLE-COMPONENT SEALANT COLOR TO MATCH MEMBRANE.

4- EPDM PERIMETER FASTENERS FACTORY COATED STEEL FASTENERS WITH METAL OR PLASTIC PLATES COMPLYING WITH CORROSION-RESISTANCE PROVISIONS IN FM GLOBAL 4470, DESIGNED FOR FASTENING MEMBRANE TO SUBSTRATE AND ACCEPTABLE TO THE ROOFING MANUFACTURER FOR WARRANTY PURPOSES.

5- EPDM ROOF ASSEMBLY SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND SPECIFICATIONS. COMPLETE TERMINATIONS AND BASE FLASHINGS AND PROVIDE SEALS TO PREVENT MOISTURE FROM ENTERING THE STRUCTURE.

07 72 00 ROOF ACCESSORIES

1- THIS SECTION SHALL INCLUDE ROOF CURBS AND EQUIPMENT SUPPORTS. ALL ACCESSORIES SHALL CONFORM TO SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" AND NRCA'S "ROOFING AND WATERPROOFING MANUAL". WOOD NAILERS SHALL BE PRESSURE TREATED WITH WATERBORNE PRESERVATIVES FOR ABOVE GROUND USE, COMPLYING WITH AWPA C-2.

2- WOOD NAILERS SHALL BE PRESSURE TREATED WITH WATERBORNE PRESERVATIVES FOR ABOVE GROUND USE, COMPLYING WITH AWPA C-2.

3- FASTENERS SHALL BE STAINLESS STEEL OR OTHER NONCORROSIVE METAL AS RECOMMENDED BY MANUFACTURER. MATCH FINISH OF EXPOSED FASTENERS WITH FINISH OF MATERIAL BEING FASTENED.

4- MASTIC SEALANTS SHALL BE POLYISOBUTYLENE, NON HARDENING, NON SHRINKING, NON DRYING, NON MIGRATING SEALANT. ELASTOMERIC SEALANTS SHALL BE AS RECOMMENDED BY THE UNIT MANUFACTURER. MATERIAL SHALL BE COMPATIBLE WITH JOINT SURFACES, ASTM C920, TYPE S, GRADE NS, CLASS 25.

5- EQUIPMENT SUPPORTS SHALL BE CAPABLE OF SUPPORTING SUPERIMPOSED LIVE AND DEAD LOADS, INCLUDING EQUIPMENT LOADS AND OTHER CONSTRUCTION TO BE SUPPORTED. FABRICATE UNITS TO A MINIMUM HEIGHT OF 8 INCHES, UNLESS OTHERWISE INDICATED OR REQUIRED FOR STRENGTH. FABRICATE UNITS FROM MINIMUM 0.0747 INCH THICK, STRUCTURAL-QUALITY, HOT DIP GALVANIZED OR ALUMINUM-ZINC ALLOY-COATED STEEL SHEET, FACTORY PRIMED AND PREPARED FOR PAINTING WITH CONTINUOUSLY WELDED CORNER JOINTS. PROVIDE MANUFACTURER'S STANDARD RIGID OR SEMI-RIGID INSULATION.
- ALL PIPE, STRUCTURAL STEEL AND FENCE POST PENETRATIONS SHALL BE COMPLETE AS A PIPE PORTAL SYSTEM, AND SHALL BE FURNISHED WITH A LAMINATED, ACRYLIC COATED, ABS PLASTIC CURB COVER WITH PREPUNCHED HOLES, MOLDED SEATING RINGS, SQUARE OR ROUND ADAPTERS, EPDM COMPRESSION MOLDED CAPS AND STAINLESS STEEL SNAPLOCK CLAMPS AS MANUFACTURED BY PORTAL PLUS INC OR EQUAL. ATTACHMENT AND INSTALLATION OF THE PIPE PORTAL SYSTEM SHALL BE ACCORDANCE WITH PORTAL PLUS INC. INSTRUCTIONS AND THE ROOFING MEMBRANE MANUFACTURER'S RECOMMENDATIONS.

6- COORDINATE INSTALLATION OF ROOF ACCESSORIES WITH ROOF FLASHING, ROOFING MEMBRANES, PENETRATIONS, EQUIPMENT, AND OTHER CONSTRUCTION TO INSURE THAT COMBINED ELEMENTS ARE WATERPROOF AND WATERTIGHT. ANCHOR ROOF ACCESSORIES SECURELY TO SUPPORTING STRUCTURAL SUBSTRATES SO THEY ARE CAPABLE OF WITHSTANDING LATERAL AND THERMAL STRESSES, AND INWARD AND OUTWARD LOADING PRESSURES.

7- PROVIDE CAP FLASHING WHERE REQUIRED AS COMPONENT OF ACCESSORY. INSTALL CAP FLASHING TO PROVIDE WATERPROOF OVERLAP WITH ROOFING OR ROOF FLASHING (AS COUNTERFLASHING). SEAL OVERLAP WITH THICK BEAD OF MASTIC SEALANT.

07 92 00 JOINT SEALANT

1- SILICONE JOINT SEALANTS
A. SINGLE-COMPONENT, NON-SAG, NEUTRAL-CURING, SILICONE JOINT SEALANT: ASTM C920, TYPE S, GRADE NS, CLASS 100 / 50, FOR USE NT.
1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE FOLLWING:
a. TREMCO INCORPORATED: SPECTREM 1.

2- LATEX JOINT SEALANTS
A. LATEX JOINT SEALANTS: ACRYLIC LATEX OR SILICONIZED ACRYLIC LATEX, ASTM C834, TYPE OP, GRADE NF.
1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE FOLLOWING:
a. TREMCO INCORPORATED: TREMFLEX 834.

3- ACOUSTIC JOINT SEALANTS
A. ACOUSTIC JOINT SEALANT: MANUFACTURER'S STANDARD NON-SAG, PAINTABLE, NON-STAINING LATEX SEALANT, COMPLYING WITH ASTM C834. PRODUCT EFFECTIVELY REDUCES AIRBORNE SOUND TRANSMISSION THROUGH PERIMETER JOINTS AND OPENINGS IN BUILDING CONSTRUCTION AS DEMONSTRATED BY TESTING REPRESENTATIVE ASSEMBLIES ACCORDING TO ASTM E90.
1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE F FOLLOWING:
a. PECORA CORPORATION: AIS-919.
b. USG CORPORATION: SHEETROCK ACOUSTICAL SEALANT.

DIVISION 8 METAL DOORS AND FRAMES
08 11 13 HOLLOW METAL DOORS AND FRAMES

1- FRAME TO BE KNOCK DOWN TYPE 16 GAUGE, DRYWALL SLIP ON PROFILE. PROVIDE MINIMUM 2 20 GA METAL STUDS AT JAMBS. FIRE RATED FRAMES SHALL HAVE THE SAME RATING AS REQUIRED BY THE DOOR.

2- DOORS AND FRAMES TO BE SHOP PRIMED AND FIELD PAINTED.

3- REFER TO DOOR SCHEDULE FOR DOOR AND FRAME TYPES.

4- PROVIDE INTERNAL DOOR AND FRAME REINFORCING FOR THE HARDWARE SPECIFIED

08 14 16 FLUSH WOOD DOORS

1- PROVIDE 1 3/4" THICK X 5-PLY NON RATED PARTICLE BOARD CORE AND FIRE RATED MINERAL CORE WOOD VENEERED FLUSH DOORS BY EGGERS OR EQUAL. DOORS TO BE LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

2- PROVIDE 5 INCH TOP AND BOTTOM RAIL BLOCKING AND 5 INCH X 10 INCH LOCK BLOCKS (BOTH SIDES). NO THROUGH BOLTING WILL BE ACCEPTED.

3- DOORS WITH VISION PANELS TO RECEIVE FLUSH VENEERED HARDWOOD NON-COMBUSTIBLE WOOD BEAD STOPS. OVERLAPPING OR METAL VISION KITS WILL NOT BE ACCEPTED.

4- DOOR FACE VENEERS SHALL MEET HPVA - A GRADE QUALITY STANDARDS CONFORMING TO WDMA I.S. 1A-04. MINIMUM FACE VENEER THICKNESS SHALL BE 1/50" @ 12% MOISTURE CONTENT AFTER FINISH SANDING.

5- VENEER DOOR TO BE FACTORY FINISHED. FACE CUT TO BE PLAIN SLICED, UNLESS NOTED OTHERWISE ON DRAWINGS. SEE FINISH MATERIAL SCHEDULE FOR VENEER SPECIES AND STAIN COLOR. FACE TO CORE ADHESIVES SHALL BE TYPE 1 AS CLASSIFIED BY THE WDMA.

6- DOORS TO BE FACTORY MACHINED TO ACCEPT HARDWARE SPECIFIED. DOOR CORE IS AT THE DISCRETION OF THE DOOR MANUFACTURER, EXCEPT RATED DOORS MUST HAVE A MINERAL CORE OR SIMILAR RATED AND APPROVED CONSTRUCTION.

7- DO NOT DELIVER OR INSTALL DOORS BEFORE BUILDING IS WEATHER TIGHT AND THE HVAC SYSTEM IS OPERATING AND MAINTAINING PROPER TEMPERATURE AND HUMIDITY LEVELS.

08 31 13 ACCESS DOORS AND FRAMES

1- PROVIDE TRIMLESS, RECESSED, LOCKING ACCESS DOORS BY ACUDOR OR APPROVED EQUAL.

2- USE DW-5040 AT NON RATED DRYWALL PARTITIONS AND CEILINGS WHERE REQUIRED AND FW-5050 AT FIRE RATED DRYWALL PARTITIONS AND CEILINGS WHERE REQUIRED.

3- FINISH FLANGES OF ACCESS DOORS TO MATCH ADJACENT DRYWALL FINISH. DOORS TO BE 24 INCHES BY 24 INCHES UNLESS LARGER SIZES ARE NEEDED. ACCESS DOORS TO BE SHOP PRIMED AND FIELD PAINTED.

08 71 00 DOOR HARDWARE

1- PROVIDE FINISH HARDWARE, TRIM, ATTACHMENTS AND FASTENINGS REQUIRED TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS, AS SPECIFIED HEREIN AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.

2- HARDWARE SHALL COMPLY WITH BHMA A156 SERIES STANDARDS, GRADE 1. ALL HARDWARE USED IN RATED ASSEMBLIES SHALL BE UL LISTED.

3- FINISHES AND STYLES AS PER THE FINISH SCHEDULE. CONFIRM WITH HOSPITAL BEFORE ORDERING.

4- REVIEW AND CONFIRM KEYING SCHEDULE AND FUNCTION WITH HOSPITAL BEFORE FINAL ORDERING.

HARDWARE SCHEDULE - SEE DOOR SCHEDULE SHEET

08 80 00 GLAZING

1- ALL INTERIOR NON FIRE RATED GLAZING TO BE LAMINATED SAFETY GLAZING 1/4" TO 3/8" IN THICKNESS, REFER TO DRAWINGS FOR APPROPRIATE SIZE.

2- ALL FIRE RATED GLAZING TO BE LAMINATED PREMIUM GRADE CERAMIC GLAZING MIN. 3/16" TO 1/4" IN THICKNESS. RATED TO MATCH WALL - DOOR ASSEMBLY.

DIVISION 9 FINISHES
09 29 00 GYPSUM BOARD

1- ALL INTERIOR METAL STUD FRAMING TO BE 20 GA (30 MILS), FYmin=33 KSI GALVANIZED STUDS (OR AS INDICATED ON DRAWINGS). MAXIMUM HEIGHT OF COMPOSITE 3-5/8" STUD = 12'-3". MAXIMUM HEIGHT OF 6" COMPOSITE STUD = 18'-4".

2- ALL INTERIOR DRYWALL SHALL COMPLY WITH ASTM C840 AND GA-216.

3- ALL INTERIOR DRYWALL TO BE 5/8" INCH THICK UNLESS OTHERWISE NOTED. IN FIRE RATED PARTITIONS DRYWALL TO BE 5/8 INCH THICK TYPE X (FIRE CODE).

4- ALL INTERIOR CEILINGS DRYWALL TO BE 1/2" INCH THICK UNLESS OTHERWISE NOTES.

5- SUSPENDED DRYWALL CEILINGS TO BE DIRECTED HUNG, WITH ARMSTRONG FURRING GRID OR EQUAL. INSTALL CEILING DRYWALL PRIOR TO PARTITION DRYWALL. INSTALL WITH FASTENERS SPACED AS PER MANUFACTURER'S RECOMMENDATIONS.

6- PROVIDE MANUFACTURER'S STANDARD 2" DEEP LEG TRACK FOR ALL TOP RUNNERS AT NON LOAD BEARING PARTITIONS.

7- ALL PARTITIONS ARE TO THE UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED.

8- PROVIDE MOISTURE RESISTANT GYPSUM BOARD BEHIND PLUMBING FIXTURES IN ALL ROOMS WHERE FIXTURES ARE LOCATED, BUT CERAMIC TILE IS NOT SCHEDULED.

9- PROVIDE SAG RESISTANT DRYWALL AT ALL CEILINGS.

10- ALL DOOR OPENINGS ARE TO BE 4" FROM OUTSIDE FACE OF FRAME TO PERPENDICULAR PARTITION UNLESS OTHERWISE DIMENSIONS ON PLANS.

11- FIRE RATED PARTITIONS ARE TO FORM A SEPARATION THAT IS CONTINUOUS FROM FLOOR SLAB TO THE UNDERSIDE OF STRUCTURE. ALL OPENINGS, PENETRATIONS, CHASES, ETC ARE TO BE FIRESTOPPED TO MAINTAIN FIRE RATING.

12- TYPICAL EXPOSED DRYWALL TO RECEIVE LEVEL 4 FINISH, WHERE ALL JOINTS AND CORNER TRIM TO BE EMBEDDED IN ONE LAYER OF JOINT COMPOUND, AND THREE SEPARATE COATS OF JOINT COMPOUND APPLIED OVER JOINTS, TRIM, FASTENERS AND A FINISH SKIM COAT IS APPLIED OVER ENTIRE SURFACE.

13- DRYWALL ABOVE CEILING AND A SIMILAR CONCEALED AREAS TO RECEIVE LEVEL 1 FINISH, WHERE TAPE EMBEDDED IN COMPOUND AND ALL JOINTS, TRIM, AND FASTENERS TO BE EMBEDDED IN TWO LAYERS OF JOINT COMPOUND.

14- PROVIDE CONTROL JOINTS AT THE FOLLOWING LOCATIONS: 30'-0" O.C. MAX IN RUNNING PARTITIONS, SOFFITS OR CEILINGS, CONSTRUCTION CHANGES WITHIN A PARTITION OR CEILING, 30'-0" O.C. MAX AT EXTERIOR SOFFITS.

15- PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO MOULDING AND RUNNING TRIM, HANDRAILS, TOILET ACCESSORIES, COUNTERTOPS, WALL CABINETS, EQUIPMENT LISTED AS BY OTHERS OR FUTURE, ELECTRICAL OR TELEPHONE PANELS, ETC.

09 51 13 ACOUSTICAL PANEL CEILINGS

1- CEILING TILE AND GRID
A- TILE: ARMSTRONG - REFER TO INTERIOR FINISH SCHEDULE ON SHEET I000 FOR DETAILS.
B- NON-FIRE RATED GRID: ASTM C635, HEAVY DUTY; EXPOSED TEE, COMPONENTS DIE-CUT AND INTERLOCKING; ARMSTRONG PRELUDE.
C- GRID MATERIALS: COMMERCIAL QUALITY COLD-ROLLED STEEL.
D- GRID FINISH: WHITE.

2- HANGER WIRE: ASTM A641 / A641M, CLASS I ZINC COATING, SOFT TEMPER.
A- SIZE: ASTM C635, MIN. 12-GUAGE.

3- MAIN BEAMS, CROSS TEES AND WALL MOLDINGS ARE MINIMUM G60 HOT-DIPPER GALVANIZED STEEL.

4- PROVIDE 5% EXTRA ACOUSTICAL PANELS FOR ATTIC STOCK.

5- DO NOT USE EXPOSED FASTENERS, INCLUDING POP RIVETS, ON CEILING SYSTEM. SECURELY INTERLOCK TEES, AND REPLACE BROKEN OR BENT TEES.

6- CUT TEGULAR EDGE TILES TO MATCH WHERE GRID CHANGES SIZE. PAINT CUT EDGE OF TILE, AND FACE AWAY FROM VIEW.

7- CENTER ALL CEILINGS DEVICES, FIXTURES, SPRINKLER HEADS, DIFFUSERS, ETC. IN TILES, UNLESS NOTED OTHERWISE.

8- CEILING GRIDS ARE TO BE CENTERED IN SPACES IN BOTH DIRECTIONS UNLESS OTHERWISE NOTED OR DIMENSIONED.

09 65 13 RESILIENT BASE AND ACCESSORIES

1- REFER TO INTERIOR FINISH SCHEDULE ON SHEET I000 FOR MODEL AND COLOR.

09 65 16 RESILIENT SHEET FLOORING

1- REFER TO INTERIOR FINISH SCHEDULE ON SHEET I000 FOR MODEL AND COLOR.

09 91 23 INTERIOR PAINTING

1- EPOXY PAINT: USE ON WALLS AND DOOR FRAMES AT ALL TOILET ROOM LOCATIONS.

2- MISCELLANEOUS METALS (EG-SHEL ALKYD)
A- HOLLOW METAL DOORS AND FRAMES, STEEL LINTELS, EXPOSED CONDUIT, PANELBOARD FRONTS, NON-FINISHED OR PRIMED METALS AND OTHER EQUIPMENT.
1. FIRST COAT: TOUCH-UP SHOP APPLIED PRIMER WITH GLIDDEN METAL PRIMER
2. SECOND COAT: GLIDDEN INTERIOR ALKYD EG-SHEL ENAMEL, DFT/COAT 1.6 MILS.
3. THIRD COAT: GLIDDEN INTERIOR ALKYD EG-SHEL ENAMEL, DFT/COAT 1.6 MILS.
4. TOTAL DRY FILM THICKNESS: 6.2 -7.2 MILS.

3- DRYWALL (GWB) (ALKYD EG-SHEL)
A- WALLS, CEILINGS, AND/OR BULKHEADS
1. FIRST COAT: GLIDDEN ZERO VOC LATEX PRIMER (4.0 MILS WET, 1.5 MILS DRY).
2. SECOND COAT: GLIDDEN WATERBASED ACRYLIC ALKYD EG-SHEL.
3. THIRD COAT: GLIDDEN WATERBASED ACRYLIC ALKYD EG-SHELL. 4.0 MILS WET, 1.4 MILS DRY PER COAT.
B- WALLS AND DOOR FRAMES AT CATH LAB
1. USE EPOXY PAINT FINAL FINISH COAT(S) GLIDDEN SERIES PRO-INDUSTRIAL PRE-CATALYZED WATERBASED EPOXY SEMI-GLOSS.

DIVISION 10 SPECIALTIES
10 21 23 CUBICLE CURTAINS AND TRACK

1- PROVIDE CURTAIN TRACK AS SHOWN ON DRAWINGS BY C/S SPECIALTIES. OR APPROVED EQUAL, SURFACE MOUNTED ANODIZED ALUMINUM TRACK. CARRIERS SHALL BE BALL AND CHAIN TYPE. TRACK TO HAVE STANDARD END CAPS. AT STACKING AREA, END CAP SHALL BE WITH A HOOK.

2- ATTACH TRACK TO ACOUSTICAL CEILING GRID WITH FLUSH TILE TYPE GRID CLIPS @ 24" OC, EACH CLIP SHOULD BE CAPABLE OF SUPPORTING 45 LBS. EACH.

3- CUBICAL CURTAINS SHALL BE PROVIDED BY OWNER FROM EXISTING STOCK.

10 26 00 WALL AND DOOR PROTECTION

1- REFER TO INTERIOR FINISH SCHEDULE ON SHEET I000 FOR DETAILS.

DIVISION 13 SPECIAL CONSTRUCTION
13 49 00 RADIATION PROTECTION

PART 1 - GENERAL
1.1 SUMMARY
A. SECTION INCLUDES:
1. LEAD GLASS.
2. LEAD-LINED BUILDING MATERIALS AND PRODUCTS INCLUDING THE FOLLOWING:
A. GYPSUM BOARD.
B. STEEL HOLLOW-METAL DOOR FRAMES.
C. WOOD DOORS.
D. OBSERVATION-WINDOW FRAMES.
3. INFORMATIONAL SIGNS.

1.2 DEFINITIONS
A. LEAD EQUIVALENCE: THE THICKNESS OF LEAD THAT PROVIDES THE SAME ATTENUATION (REDUCTION OF RADIATION PASSING THROUGH) AS THE MATERIAL IN QUESTION UNDER THE SPECIFIED CONDITIONS.
1. LEAD EQUIVALENCE SPECIFIED FOR MATERIALS USED IN DIAGNOSTIC X-RAY ROOMS IS AS MEASURED AT 100 KV UNLESS OTHERWISE INDICATED.

1.3 PERFORMANCE REQUIREMENTS
A. PROVIDE MATERIALS AND WORKMANSHIP, INCLUDING JOINTS AND FASTENERS, THAT MAINTAIN CONTINUITY OF RADIATION PROTECTION AT ALL POINTS AND IN ALL DIRECTIONS EQUIVALENT TO MATERIALS SPECIFIED IN THICKNESSES AND LOCATIONS INDICATED.
1. MATERIALS, THICKNESSES, AND CONFIGURATIONS INDICATED ARE BASED ON RADIATION PROTECTION DESIGN PREPARED BY OWNER'S RADIATION HEALTH PHYSICIST – THICKNESSES INDICATED ON DRAWINGS. THIS DESIGN IS AVAILABLE TO CONTRACTOR ON REQUEST.
B. LEAD-LINED ASSEMBLIES: UNLESS OTHERWISE INDICATED, PROVIDE LEAD THICKNESS IN DOORS, DOOR FRAMES, WINDOW FRAMES, PENETRATION SHIELDING, JOINT STRIPS, AND OTHER ITEMS LOCATED IN LEAD-LINED ASSEMBLIES NOT LESS THAN THAT INDICATED FOR ASSEMBLIES IN WHICH THEY ARE INSTALLED.
C. LEAD GLAZING: UNLESS OTHERWISE INDICATED, PROVIDE LEAD EQUIVALENCE NOT LESS THAN THAT INDICATED FOR ASSEMBLY IN WHICH GLAZING IS INSTALLED.

1.4 SUBMITTALS
A. SHOP DRAWINGS: SHOW LAYOUT OF RADIATION-PROTECTED AREAS. INDICATE LEAD THICKNESS OR LEAD EQUIVALENCE OF COMPONENTS. SHOW COMPONENTS AND INSTALLATION CONDITIONS NOT FULLY DIMENSIONED OR DETAILED IN PRODUCT DATA.
1. SHOW DUCTS, PIPES, CONDUIT, AND OTHER OBJECTS THAT PENETRATE RADIATION PROTECTION; INCLUDE DETAILS OF PENETRATIONS.

1.5 QUALITY ASSURANCE
A. FOREST CERTIFICATION: PROVIDE WOOD VENEERS FOR DOORS PRODUCED FROM WOOD OBTAINED FROM FORESTS CERTIFIED BY AN FSC-ACCREDITED CERTIFICATION BODY TO COMPLY WITH FSC STD-01-001, "FSC PRINCIPLES AND CRITERIA FOR FOREST STEWARDSHIP."
B. GLAZING: COMPLY WITH REQUIREMENTS IN DIVISION 08 SECTION "GLAZING."

1.6 WARRANTY
A. COMPLY WITH REQUIREMENTS IN DIVISION 08 SECTION "FLUSH WOOD DOORS."

PART 2 - PRODUCTS
2.1 MATERIALS
A. LEAD SHEET, STRIP, AND PLATE: ASTM B 749, ALLOY UNS NO. L51121 (CHEMICAL-COPPER LEAD).
1. SEE DRAWINGS A200A.1, A400, A403, AND A900 FOR REQUIRED LEAD THICKNESSES OF THE VARIOUS COMPONENTS COVERED BY THIS SECTION.
B. LEAD GLASS: LEAD-BARIUM, POLISHED FLOAT GLASS CONTAINING NOT LESS THAN 60 PERCENT HEAVY METAL OXIDES, INCLUDING NOT LESS THAN 48 PERCENT LEAD OXIDE BY WEIGHT.
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
A. AMEROPE ENTERPRISES, INC.
B. MCGRORY GLASS, INC.
C. SCHOTT NORTH AMERICA, INC.
D. NELCO WORLDWIDE.
2. SAFETY GLASS: FULLY TEMPERED FLOAT GLASS.
A. OUTER LITE: CLEAR FLOAT GLASS.
B. INTERLAYER: CLEAR POLYVINYL BUTYRAL OR CURED RESIN OF MANUFACTURER'S STANDARD THICKNESS INDICATED WITH A PROVEN RECORD OF NO TENDENCY TO BUBBLE, DISCOLOR, OR LOSE PHYSICAL AND MECHANICAL PROPERTIES AFTER LAMINATING GLASS LITES AND INSTALLATION.
C. INNER LITE: LEAD-BARIUM, POLISHED FLOAT GLASS.
C. LEAD-LINED GYPSUM BOARD: 5/8-INCH THICK GYPSUM BOARD COMPLYING WITH DIVISION 09 SECTION " GYPSUM BOARD," OF WIDTH AND LENGTH REQUIRED FOR SUPPORT SPACING AND TO PREVENT CRACKING DURING HANDLING, AND WITH A SINGLE SHEET OF LEAD LAMINATED TO THE BACK OF THE BOARD.
1. PROVIDE LEAD SHEET LINING THE FULL WIDTH OF BOARD AND LENGTH NECESSARY TO EXTEND FROM FLOOR TO NO LESS THAN 84 INCHES ABOVE FLOOR.
2. PROVIDE 3-INCH-WIDE LEAD STRIPS FOR WRAPPING METAL STUD FLANGES.
3. PROVIDE 2-INCH-WIDE LEAD STRIPS FOR BACKING JOINTS.
4. PROVIDE 5/8-INCH LEAD DISKS FOR COVERING SCREW HEADS.
5. PROVIDE LEAD-HEADED NAILS FOR FASTENING GYPSUM BOARD, ACCESSORIES, AND TRIM TO WOOD BLOCKING MEMBERS.
D. ACCESSORIES AND FASTENERS: PROVIDE MANUFACTURER'S STANDARD FASTENERS AND ACCESSORIES AS REQUIRED FOR INSTALLATION, MAINTAINING SAME LEAD EQUIVALENCE AS REST OF SYSTEM.
E. ASPHALT COATING: COLD-APPLIED ASPHALT EMULSION COMPLYING WITH ASTM D 1187.
F. ASPHALT FELT: ASTM D 226.

2.2 LEAD-LINED STEEL HOLLOW-METAL DOOR FRAMES
A. GENERAL: STEEL DOOR FRAMES COMPLYING WITH ANSI/NAAMM-HMMA 861 AND LINED WITH LEAD SHEET OF THICKNESS NOT LESS THAN THAT REQUIRED FOR DOORS AND WALLS WHERE FRAMES ARE USED.
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
A. DERONDE PRODUCTS.
B. KARPEN STEEL CUSTOM DOORS & FRAMES.
C. AACCURATE RADIATION SHIELDING, INC.
D. A & L SHIELDING INC.
E. NELCO WORLDWIDE.
2. PROVIDE ADDITIONAL REINFORCEMENTS AND INTERNAL SUPPORTS TO ADEQUATELY CARRY THE WEIGHT OF LEAD-LINED DOORS. INSTALL REINFORCEMENTS AND SUPPORTS BEFORE INSTALLING LEAD LINING.
A. LEAD-LINED FRAMES SHALL BE FULLY-WELDED; KNOCKDOWN FRAMES ARE NOT PERMITTED AT ANY FRAMES THAT ARE LEAD-LINED.
3. FORM LEAD SHEET TO MATCH FRAME CONTOUR, CONTINUOUS IN EACH JAMB AND ACROSS THE HEAD, LAPPING THE STOPS. FORM LEAD SHIELDS AROUND AREAS PREPARED TO RECEIVE HARDWARE. FABRICATE LEAD LINING WIDE ENOUGH TO MAINTAIN AN EFFECTIVE LAP WITH LEAD OF ADJACENT SHIELDING.
4. HARDWARE PREPARATION: FACTORY PREPARE DOORS AND FRAMES TO RECEIVE TEMPLATED MORTISED HARDWARE; INCLUDE CUTOUTS, REINFORCEMENT, MORTISING, DRILLING, AND TAPPING ACCORDING TO THE DOOR HARDWARE SCHEDULE AND TEMPLATES FURNISHED AS SPECIFIED IN DIVISION 08 SECTION "DOOR HARDWARE."
5. FINISH: APPLY MANUFACTURER'S FACTORY-APPLIED PAINT.
A. COLOR AND GLOSS: MATCH NEW DOOR FRAMES IN AREA OF WORK. REFER TO INTERIOR FINISH SCHEDULE ON SHEET I000.

13 49 00 RADIATION PROTECTION (CONTINUED)

2.3 LEAD-LINED WOOD DOORS
A. GENERAL: FLUSH SOLID-CORE WOOD DOORS WITH LEAD LINING, THICKNESS 1-3/4" OR AS INDICATED ON DRAWINGS.
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
A. ALGOMA HARDWOODS, INC.
B. AMPCO, INC.
C. EGGERS INDUSTRIES; ARCHITECTURAL DOOR DIV.
D. MARSHFIELD DOOR SYSTEMS, INC.
E. V-T INDUSTRIES INC.
F. NELCO, INC.
2. DOOR CONSTRUCTION: VENEER FACE, FIVE PLY, BONDED PARTICLEBOARD CORE.
3. LEAD LINING: ONE OR MORE CONTINUOUS SHEETS OF LEAD EXTENDING FROM TOP TO BOTTOM AND EDGE TO EDGE, CONSTRUCTED EITHER IN THE CORE OR BETWEEN THE CORE AND FACES, AT MANUFACTURER'S OPTION.
4. COMPLY WITH DIVISION 08 SECTION "FLUSH WOOD DOORS" FOR GRADE, FACES, VENEER MATCHING, FABRICATION, FINISHING, AND OTHER REQUIREMENTS UNLESS OTHERWISE INDICATED.
5. SHIELD CUTOUTS FOR LOCKSETS WITH LEAD SHEET OF SAME THICKNESS USED IN DOOR. LAP LINING OF CUTOUTS WITH DOOR LINING.
6. FACTORY FIT DOORS TO SUIT FRAME OPENINGS INDICATED WITH 1/16-INCH CLEARANCE AT HEADS AND JAMBS AND MINIMUM CLEARANCE AT BOTTOM. FACTORY MACHINE DOORS FOR HARDWARE THAT IS NOT SURFACE APPLIED.

2.4 LEAD-LINED OBSERVATION-WINDOW FRAMES
A. GENERAL: FABRICATE FROM 0.043-INCH-THICK, FORMED-STEEL SHEET WITH MITERED CORNERS, WELDED OR BOLTED WITH CONCEALED FASTENERS.
1. LINE WITH LEAD SHEET FORMED TO MATCH FRAME CONTOUR, CONTINUOUS IN EACH JAMB AND ACROSS HEAD AND SILL, LAPPING THE STOPS, AND FABRICATED WIDE ENOUGH TO MAINTAIN AN EFFECTIVE LAP WITH LEAD OF ADJOINING ASSEMBLIES.
2. CONSTRUCT SO LEAD LINING OVERLAPS GLAZING MATERIAL PERIMETER BY AT LEAST 3/8 INCH AND PROVIDE REMOVABLE STOPS.
3. FORM SILL WITH AN OPENING FOR SOUND TRANSMISSION. OFFSET SOUND PASSAGE TO MAKE OPENING LIGHTPROOF AND TO MAINTAIN REQUIRED LEAD EQUIVALENCE AT ALL POINTS AND IN ALL DIRECTIONS.

PART 3 - EXECUTION
3.1 INSTALLATION OF LEAD-LINED GYPSUM BOARD
A. INSTALL WITH LONG EDGE PARALLEL TO SUPPORTS AND LEAD LINING FACING SUPPORTS. PROVIDE BLOCKING AT END JOINTS.
B. FASTENING TO METAL STUD SUPPORTS: USE STEEL DRILL SCREWS SPACED AS RECOMMENDED IN WRITING BY GYPSUM BOARD MANUFACTURER. APPLY LEAD DISKS OVER SCREW HEADS AND RECESS FLUSH WITH SURFACE OF BOARD.
1. INSTALL LEAD STRIPS, 1-1/2 INCHES WIDE MINIMUM AND SAME THICKNESS AS LEAD LINING, TO FACE OF SUPPORTS AND BLOCKING WHERE JOINTS OCCUR. SECURE LEAD STRIPS WITH CONSTRUCTION ADHESIVE. OROVIDE SHIMS AT INTERMEDIATE SUPPORTS.
2. APPLY LEAD DISKS RECESSED FLUSH WITH SURFACE OF BOARD OVER HEADS OF SCREWS SECURING TRIM.
C. OPTION: TWO-LAYER SYSTEM: APPLY A FACING SHEET OF GYPSUM BOARD VERTICALLY OVER BASE SHEET USING LAMINATING ADHESIVE RECOMMENDED IN WRITING BY GYPSUM BOARD MANUFACTURER. OFFSET JOINTS IN FINISH LAYER FROM JOINTS IN BASE LAYER AND FASTEN AT TOP AND BOTTOM OF SHEET TO SUPPORT FINISH PANEL UNTIL ADHESIVE HAS SET.
1. LOCATE FASTENERS ABOVE CEILING OR BEHIND WALL BASE AND COVER FASTENERS WITH LEAD DISKS RECESSED FLUSH WITH SURFACE OF BOARD.
D. OPENINGS: EXTEND LEAD-LINED GYPSUM BOARD INTO FRAMES OF OPENINGS, LAPPING LEAD LINING WITH LEAD FRAMES OR FRAME LININGS AT LEAST 1 INCH. ARRANGE BOARD AROUND OPENINGS SO NEITHER HORIZONTAL NOR VERTICAL JOINTS OCCUR AT CORNERS OF OPENINGS.
E. INSTALL CONTROL AND EXPANSION JOINTS WHERE INDICATED, WITH APPROPRIATE TRIM ACCESSORIES. INSTALL LEAD STRIP ON FACE OF FRAMING, EXTENDING ACROSS JOINT, AND LAP WITH LEAD LINING OF GYPSUM BOARD.

3.2 INSTALLATION OF LEAD-LINED DOORS AND DOOR FRAMES
A. INSTALL LEAD-LINED STEEL DOORS AND DOOR FRAMES ACCORDING TO DIVISION 08 SECTION "HOLLOW METAL DOORS AND FRAMES."
B. HARDWARE: LINE COVERS, ESCUTCHEONS, AND PLATES TO PROVIDE EFFECTIVE SHIELDING AT CUTOUTS AND PENETRATIONS OF FRAMES AND DOORS. SEE DIVISION 08 SECTION "DOOR HARDWARE" FOR OTHER INSTALLATION REQUIREMENTS.

3.3 INSTALLATION OF LEAD-LINED OBSERVATION WINDOWS
A. INSTALL OBSERVATION WINDOWS ACCORDING TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
1. APPLY A COAT OF ASPHALT MASTIC OR PAINT TO LEAD LINING IN FRAMES WHERE LEAD WILL COME IN CONTACT WITH MASONRY OR GROUT.
B. INSTALL WINDOWS LEVEL, PLUMB, SQUARE, TRUE TO LINE, AND ANCHORED SECURELY IN PLACE TO STRUCTURAL SUPPORT.
C. INSTALL LEADED SIDE OF FRAME ON RADIATION SIDE OF WALL. LAP LEAD LINING OF FRAMES OVER LINING IN WALLS AT LEAST 1 INCH.
D. GLAZING: COMPLY WITH INSTALLATION REQUIREMENTS IN DIVISION 08 SECTION "GLAZING" AND WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

3.4 INSTALLATION OF PENETRATING ITEMS
A. AT PENETRATIONS OF LEAD LININGS, PROVIDE LEAD SHIELDS TO MAINTAIN CONTINUITY OF PROTECTION.
B. PROVIDE LEAD LININGS, SLEEVES, SHIELDS, AND OTHER PROTECTION IN THICKNESS NOT LESS THAN THAT REQUIRED IN ASSEMBLY BEING PENETRATED.
C. SECURE SHIELDS AT PENETRATIONS USING ADHESIVE OR WIRE TIES BUT NOT PENETRATING FASTENERS UNLESS INDICATED ON DRAWINGS.
D. OUTLET BOXES AND CONDUIT: COVER OR LINE WITH LEAD SHEET LAPPED OVER ADJACENT LEAD LINING AT LEAST 1-INCH. WRAP CONDUIT WITH LEAD SHEET FOR A DISTANCE OF NOT LESS THAN 10 INCHES FROM BOX.
E. PIPING: UNLESS OTHERWISE INDICATED, WRAP PIPING WITH LEAD SHEET FOR A DISTANCE OF NOT LESS THAN 10-INCHES FROM POINT OF PENETRATION.

3.5 FIELD QUALITY CONTROL
A. TESTING AGENCY: OWNER WILL ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS AFTER RADIOLOGY EQUIPMENT HAS BEEN INSTALLED AND PLACED IN OPERATING CONDITION.
B. CORRECT DEFICIENCIES IN OR REMOVE AND REPLACE RADIATION PROTECTION THAT INSPECTION REPORTS INDICATE DOES NOT COMPLY WITH SPECIFIED REQUIREMENTS.

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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. REGISTERED ARCHITECTURAL CORPORATION 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD RYAN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C.
11/14/2025

SHEET INFORMATION
Issued: 11/14/2025
Scale: 1" = 1'-0"
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: KG
Checked By: MG
Drawing Title: SPECIFICATIONS
Drawing Number: G003

Ground Floor - Area C		
SMOKE COMPARTMENTS	**OCCUPANCY**	**SF-22.500 MAX**
SG-G.9	I2	21,893 SF
SC-G.10	I2	2,171 SF
SC-G.11	I2	9,704 SF
SC-G.12	I2	20,009 SF
SC-G.13	I2	22,167 SF

SUITES

SLEEPING SUITE MAX SIZE 10,000 S.F. (2018 NFPA 101-19.2.5.7.2.3 / 2018 NCBC - 407.4.4.5)
NON SLEEPING SUITE MAX SIZE 15,000 S.F. (NFPA 101-2018 19.2.5.7.3.2 / 2018 NCBC - 407.4.4.6)

Designation	Primary Use	Suite Type	S.F.
SUITE-Gr	CARDIO	NON - SLEEPING	9,996 SF
SUITE-Gs	RADIOLOGY	NON - SLEEPING	9,998 SF
SUITE-Gt	RADIOLOGY	NON - SLEEPING	2,669 SF
SUITE-Gu	O.P.L.	NON - SLEEPING	1,354 SF
SUITE-Gv	CVU	NON - SLEEPING	5,335 SF
SUITE-Gw	BEHAVIORAL	NON - SLEEPING	826 SF
SUITE-Gx	TRIAGE	NON - SLEEPING	3,288SF

SYMBOL LEGEND

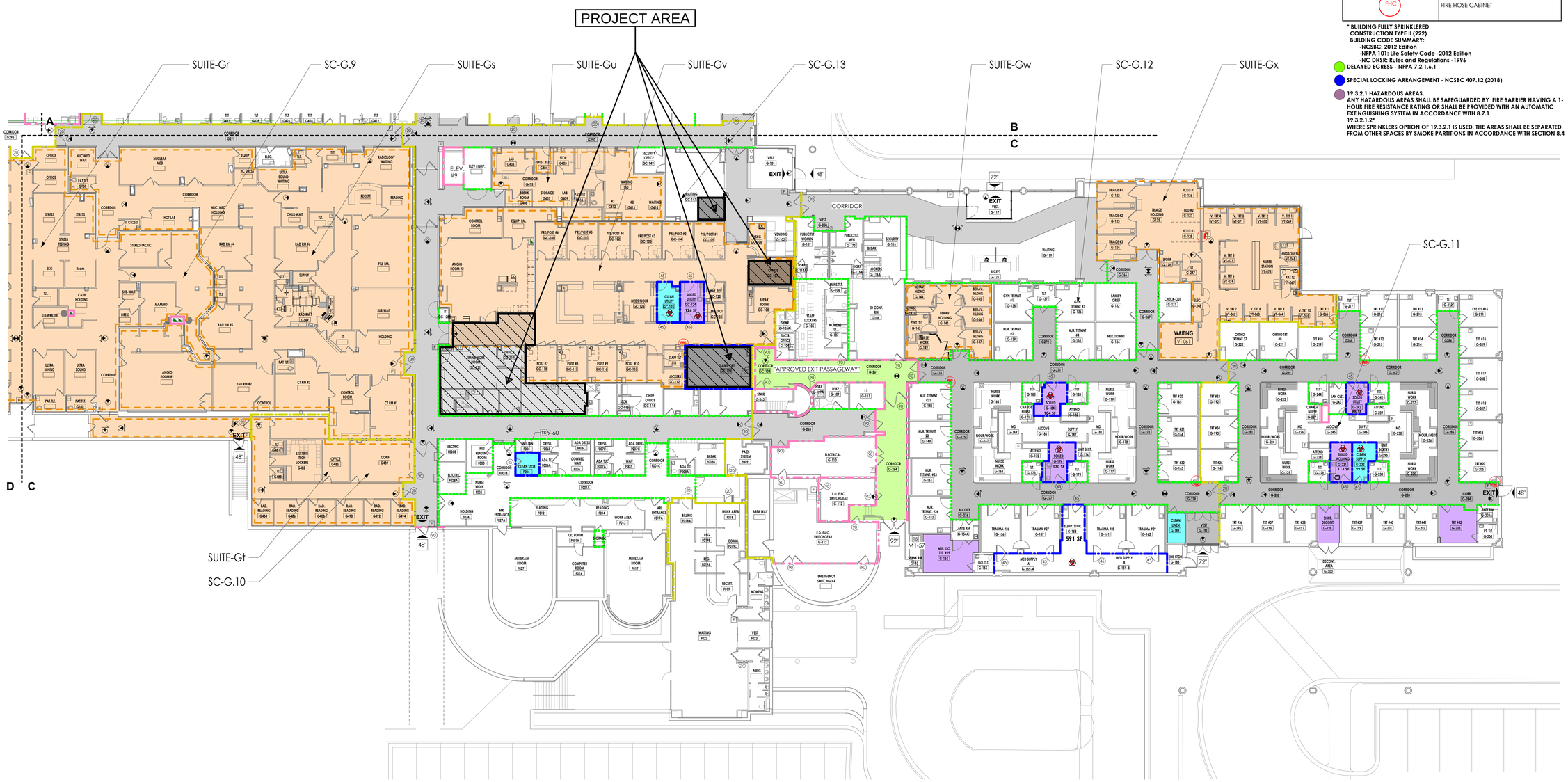
	EXIT SIGN
20	DOOR RATING IN MINUTES
ROOM NAME / 101	ROOM NAME / ROOM NUMBER
	BIOHAZARD
	NON RATED SMOKE RESISTANT WALL PARTITION
	1 HOUR RATED SMOKE BARRIER
	1 HOUR RATED FIRE BARRIER
	2 HOUR RATED FIRE BARRIER
	2 HOUR RATED FIRE WALL
	SUITES
	EXIT ACCESS CORRIDOR
	BUSINESS OCCUPANCY
	MED GAS SHUT-OFF
	NEAGTIVE PRESSURE ROOM
	POSITIVE PRESSURE ROOM
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET

*** BUILDING FULLY SPRINKLERED**
CONSTRUCTION TYPE II (222)
BUILDING CODE SUMMARY:
-NCSBC: 2012 Edition
-NFPA 101: Life Safety Code -2012 Edition
-NC DHSR: Rules and Regulations -1996

DELAYED EGRESS - NFPA 7.2.1.6.1

SPECIAL LOCKING ARRANGEMENT - NCSBC 407.12 (2018)

19.3.2.1 HAZARDOUS AREAS.
ANY HAZARDOUS AREAS SHALL BE SAFEGUARDED BY FIRE BARRIER HAVING A 1-HOUR FIRE RESISTANCE RATING OR SHALL BE PROVIDED WITH AN AUTOMATIC EXTINGUISHING SYSTEM IN ACCORDANCE WITH 8.7.1
19.3.2.1.2*
WHERE SPRINKLERS OPTION OF 19.3.2.1 IS USED, THE AREAS SHALL BE SEPARATED FROM OTHER SPACES BY SMOKE PARTITIONS IN ACCORDANCE WITH SECTION 8.4



1 GROUND FLOOR LIFE SAFETY PLAN AREA C
G000C 1/16" = 1'-0"

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PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. — Registered Architecture Corporation — 51301 — North Carolina — Charlotte, North Carolina

Kenneth Arnold Ryan — Registered Architect — 8924 — North Carolina — Charlotte, N.C. — 11/14/2025

SHEET INFORMATION

Issued
11/14/2025

Scale

Project Status
FINAL CONSTRUCTION DRAWINGS

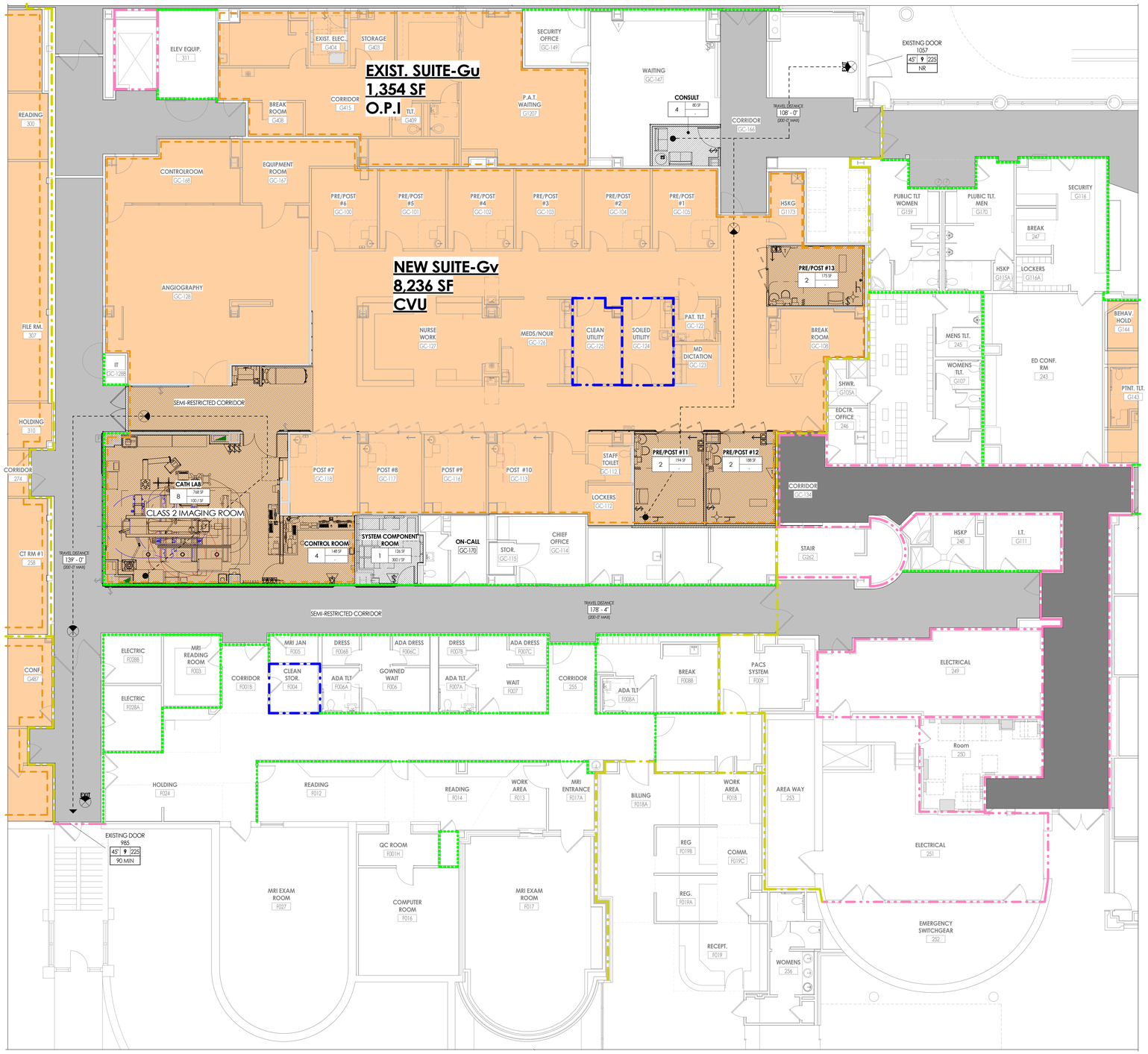
Drawn By
CPL

Checked By
CPL

Drawing Title
OVERALL GROUND FLOOR - EXISTING LIFE SAFETY PLAN

Drawing Number
-
G100

11/12/2025 11:11:26 AM PROJECT FILES ON ACC



1 G100.1 **PROPOSED GROUND FLOOR LIFE SAEFTY PLAN - AREA OF ALTERATION**

1/8" = 1'-0"

SYMBOL LEGEND

	EXIT SIGN
20	DOOR RATING IN MINUTES
ROOM NAME 101	ROOM NAME / ROOM NUMBER
	BIOHAZARD
	NON RATED SMOKE RESISTANT WALL PARTITION
	1 HOUR RATED SMOKE BARRIER
	1 HOUR RATED FIRE BARRIER
	2 HOUR RATED FIRE BARRIER
	2 HOUR RATED FIRE WALL
	SUITES
	EXIT ACCESS CORRIDOR
	BUSINESS OCCUPANCY
	MED GAS SHUT-OFF
	NEAGTIVE PRESSURE ROOM
	POSITIVE PRESSURE ROOM
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET

*** BUILDING FULLY SPRINKLERED**
CONSTRUCTION TYPE II (222)
BUILDING CODE SUMMARY:
-NCSBC: 2012 Edition
-NFPA 101: Life Safety Code -2012 Edition
-NC DHSR: Rules and Regulations -1996

DELAYED EGRESS - NFPA 7.2.1.6.1

SPECIAL LOCKING ARRANGEMENT - NCSBC 407.12 (2018)

19.3.2.1 HAZARDOUS AREAS.
ANY HAZARDOUS AREAS SHALL BE SAFEGUARDED BY FIRE BARRIER HAVING A 1-HOUR FIRE RESISTANCE RATING OR SHALL BE PROVIDED WITH AN AUTOMATIC EXTINGUISHING SYSTEM IN ACCORDANCE WITH 8.7.1
19.3.2.1.2*
WHERE SPRINKLERS OPTION OF 19.3.2.1 IS USED, THE AREAS SHALL BE SEPARATED FROM OTHER SPACES BY SMOKE PARTITIONS IN ACCORDANCE WITH SECTION 8.4

LIFE SAFETY GENERAL NOTES

1. WALL RATINGS INDICATE RATING ASSEMBLY REQUIRED IN HOURS. FOR DESGINATIONS BETWEEN FIRE BARRIER, FIRE PARTITION, AND FIRE WALL, REFER TO LIFE SAFETY PLANS & CODE STUDY.
2. ***WHERE "FG" IS INDICATED, FIRE-RATED GLAZING SYSTEM TO BE PROVIDED. REQUIRED OPENING PROTECTIVE RATING IS DEPENDENT ON TYPE OF FIRE-RATED ASSEMBLY (I.E. FIRE BARRIER, FIRE PARTITION, FIRE WALL). REFER TO CODE STUDY / LIFE SAFETY PLANS FOR WALL ASSEMBLY DESIGNATIONS.***
3. FOR RENOVATION PROJECTS ONLY: CONTRACTOR TO MAINTAIN ACCESS TO ALL EGRESS PATHS WHENEVER BUILDING IS OCCUPIED DURING CONSTRUCTION. IF AT ANY TIME CONTRACTOR NEEDS TO RESTRICT ACCESS TO ANY EGRESS PATHS OR EXITS, ARCHITECT SHOULD BE CONSULTED TO VERIFY REMAINING EXITS / TRAVEL DISTANCES ARE SUFFICIENT.

LIFE SAFETY SYMBOL LEGEND

EXIT	EXIT	AE	ACCESSIBLE ENTRANCE
ED	EXIT DISCHARGE	HE	HORIZONTAL EXIT
EAD	EXIT ACCESS DOOR		EXIT SIGN
		RW	RESCUE WINDOW

ROOM/AREA NAME
9999 SF — ROOM AREA
9999 SF — OCCUPANT LOAD FACTOR
CALCULATED OCCUPANT LOAD

ROOM/AREA NAME
9999 SF — ROOM AREA
— INDICATES OCCUPANCY OTHER THAN CODE MIN
STATED OCCUPANT LOAD

STAIR 60" 44" 100 — PROVIDED WIDTH / REQUIRED WIDTH / ANTICIPATED LOAD

9999-99 — DOOR NUMBER / ANTICIPATED LOAD
99" 9999 9999 — EGRESS CAPACITY
99 MIN — FIRE RATING / CLEAR WIDTH

TRAVEL DISTANCE 0' - 0" (0'-0" MAX)	TRAVEL DISTANCE	COMMON PATH OF TRAVEL 0' - 0" (0'-0" MAX)	COMMON PATH TRAVEL
DEAD END DISTANCE 0' - 0" (0'-0" MAX)	DEAD END DISTANCE	FIRE SHUTTER 1 HR	FIRE SHUTTERS
FE	EXISTING FIRE EXTINGUISHER	FE	FIRE EXTINGUISHER
FEB	EXISTING BRACKET MTD FIRE EXTINGUISHER	FEB	BRACKET MTD FIRE EXTINGUISHER
FEC	EXISTING FIRE EXTINGUISHER CABINET	FEC	FIRE EXTINGUISHER CABINET
FHC	EXISTING FIRE HOSE CABINET	FHC	FIRE HOSE CABINET
TES	TACTILE EXIT SIGNAGE	2WC	TWO-WAY COMMUNICATION
TRS	TACTILE RESTROOM SIGNAGE		SYMBOL OF ACCESSIBILITY
OCC	MAXIMUM POSTED OCCUPANCY	AR	AREA OF REFUGE

CLASSIFICATION OF WORK KEY

- EXISTING CONSTRUCTION TO REMAIN
- AREAS OF ALTERATION - LEVEL 1
- AREAS OF ALTERATION - LEVEL 2
- AREA OF ADDITION(S)

Ground Floor - Area C

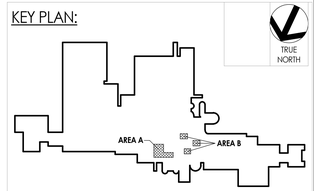
SMOKE COMPARTMENTS	OCCUPANCY	SF-22.500 MAX
SG-G.9	I2	21,893 SF
SC-G.10	I2	21,171 SF
SC-G.11	I2	9,704 SF
SC-G.12	I2	20,009 SF
SC-G.13	I2	22,167 SF

SUITES

SLEEPING SUITE MAX SIZE 10,000 S.F. (2018 NFPA 101-19.2.5.7.2.3 / 2018 NCBC - 407.4.4.5)
NON SLEEPING SUITE MAX SIZE 15,000 S.F. (NFPA 101-2018 19.2.5.7.3.2 / 2018 NCBC - 407.4.4.6)

Designation	Primary Use	Suite Type	S.F.
SUITE-Gr	CARDIO	NON - SLEEPING	9,996 SF
SUITE-Gs	RADIOLOGY	NON - SLEEPING	9,998 SF
SUITE-Gt	RADIOLOGY	NON - SLEEPING	2,669 SF
SUITE-Gu	O.P.I.	NON - SLEEPING	1,354 SF
SUITE-Gv	CVU	NON - SLEEPING	8,236 SF
SUITE-Gw	BEHAVIORAL	NON - SLEEPING	826 SF
SUITE-Gx	TRIAGE	NON - SLEEPING	3,288SF

KEY PLAN:



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Charlotte, NC 28209
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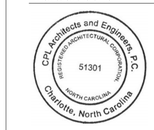
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number: R25.18089.00
Client Name: **UNC HEALTH WAYNE**
Project Name: **CATH LAB RENOVATION**
Project Address: 2700 WAYNE MEMORIAL DRIVE GOLDSBORO, NC 27533
CON Number: P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
| Date | Description

PROFESSIONAL STAMPS



SHEET INFORMATION
Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: Author
Checked By: Checker
Drawing Title: ENLARGED GROUND FLOOR - LIFE SAFETY PLAN NEW WORK
Drawing Number: G100.1

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1 G100.2 **ENLARGED GROUND FLOOR EXISTING CONDITIONS PLAN**

3/16" = 1'-0"

GENERAL WORK NOTES

1. CONSTRUCTION AND RENOVATION WORK WITHIN THE UNCH FACILITY MUST CONFORM TO THE REQUIREMENTS OF THE SITE SPECIFIC INFECTION PREVENTION AND CONTROL POLICY. INFECTION CONTROL RISK ASSESSMENT (ICRA) FOR CONSTRUCTION RENOVATION AND/OR REPAIRS MUST BE COMPLETED FOR THE WORK AND MAINTAINED ON SITE AT ANY LOCATION WHERE WORK IS BEING DONE.
2. PRIOR TO THE COMMENCEMENT OF WORK THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE A SCHEDULE OF WORK.
3. AT ALL AREAS TO RECEIVE EQUIPMENT (NEW OR REPLACEMENT) ALL WORK AND THE TIMING OF THE WORK TO BE COORDINATED WITH FACILITIES. WORK ABOVE CEILING SHALL BE PERFORMED USING ICRA CARTS IN ACCORDANCE WITH THE ICRA PLAN DEVELOPED BY THE HOSPITAL.
4. **REFER TO PLANS FOR ALL WORK.**
5. PATCH / PAINT ALL WALLS THAT RECIEVE NEW POWER & DATA OUTLETS. PAINT TO MATCH EXISTING.
6. G.C. SHALL REMOVE PORTIONS OF EXISTING CEILING REQUIRED FOR ABOVE CEILING ELECTRICAL WORK. COORDINATE EXACT LOCATIONS WITH THE E.C. EXISTING CEILING AND LIGHTS TO REMAIN. ABOVE CEILING WORK IN PATIENT OCCUPIED AREAS WILL BE DONE ON A SCHEDULE REVIEWED AND APPROVED BY THE OWNER. G.C. SHALL STORE CEILING IN LOCATED AGREED UPON BY OWNER. G.C. SHALL REINSTALL CEILING AFTER MEP ABOVE CEILING WORK IS COMPLETE. G.C. SHALL REPLACE ANY CEILING TILES THAT ARE DAMAGED DURING REMOVAL/REINSTALLATION.

CLASSIFICATION OF WORK KEY

EXISTING CONSTRUCTION TO REMAIN

AREAS OF ALTERATION

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#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. ARCHITECTURAL CORPORATION 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD ROAN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C. 11/14/2025

SHEET INFORMATION

Issued
11/14/2025

Scale
As indicated

Project Status
FINAL CONSTRUCTION DRAWINGS

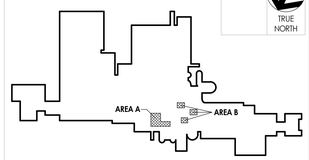
Drawn By
Author

Checked By
Checker

Drawing Title
ENLARGED GROUND FLOOR EXISTING CONDITIONS PLAN

Drawing Number
G100.2

KEY PLAN:



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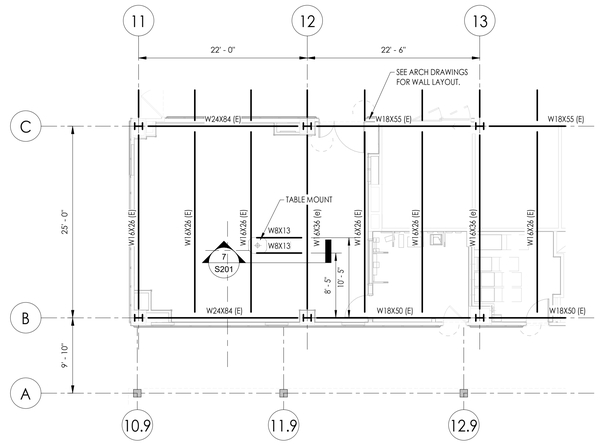
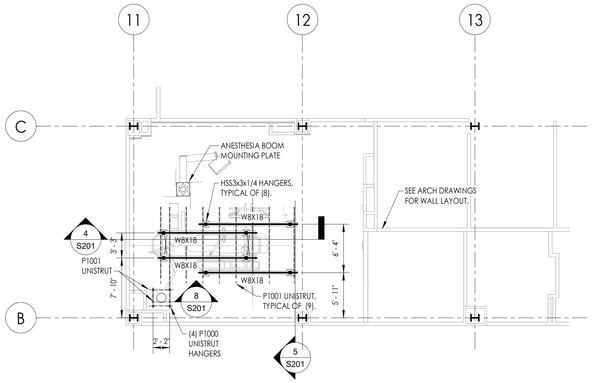
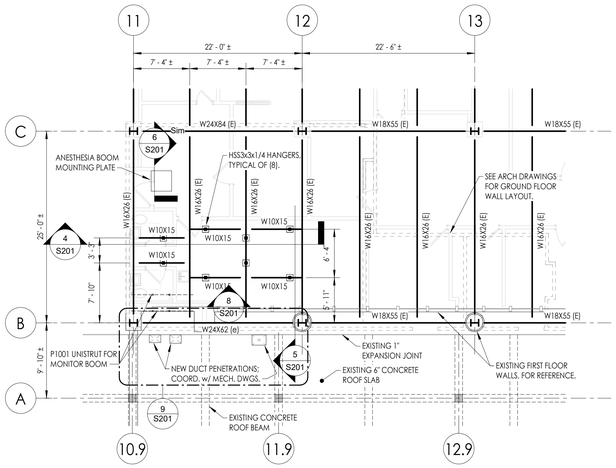


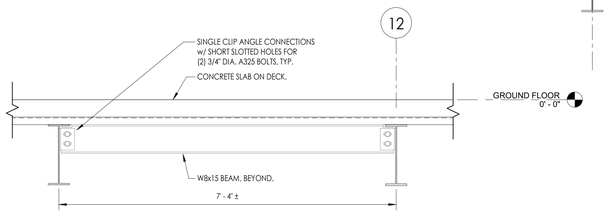
1 S201 **GROUND FLOOR FRAMING PLAN**
1/8" = 1'-0"



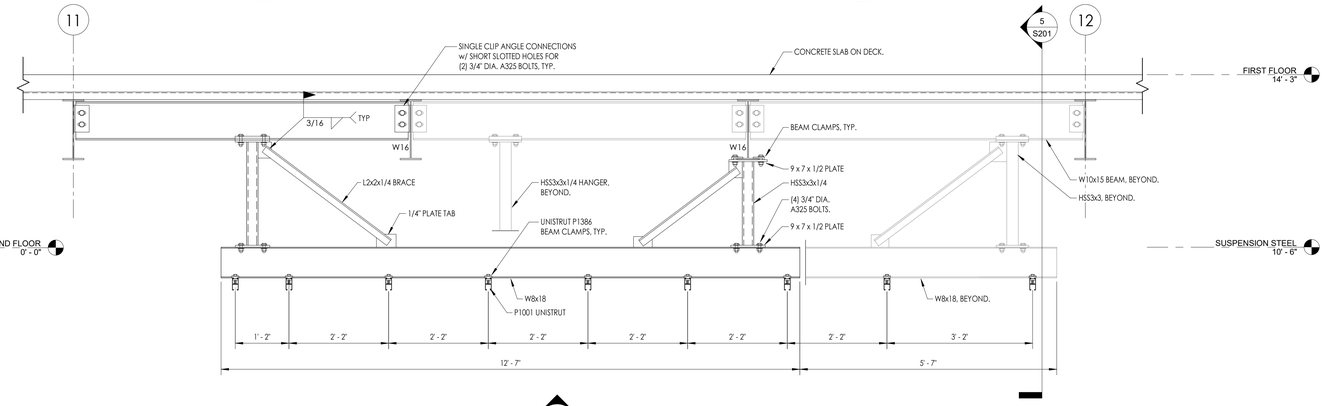
2 S201 **CEILING LEVEL SUPPORT STEEL**
1/8" = 1'-0"



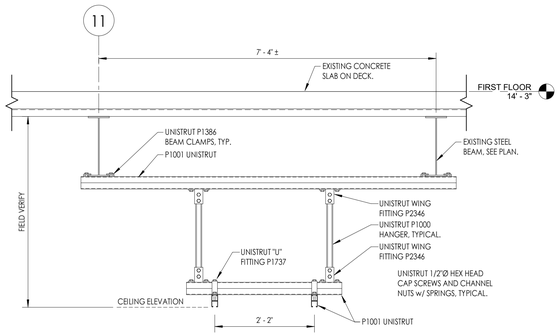
3 S201 **FIRST FLOOR LEVEL FRAMING**
1/8" = 1'-0"



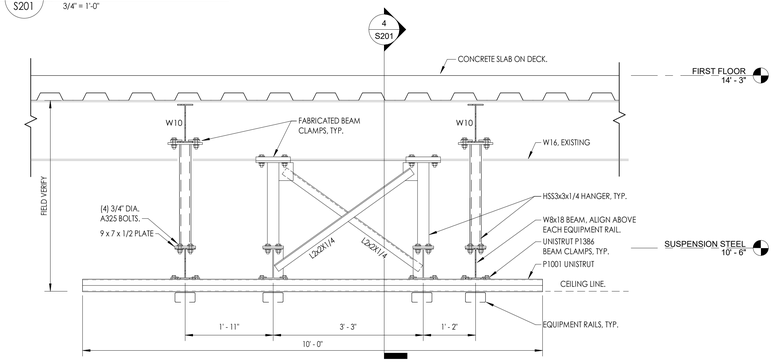
7 S201 **SECTION**
3/4" = 1'-0"



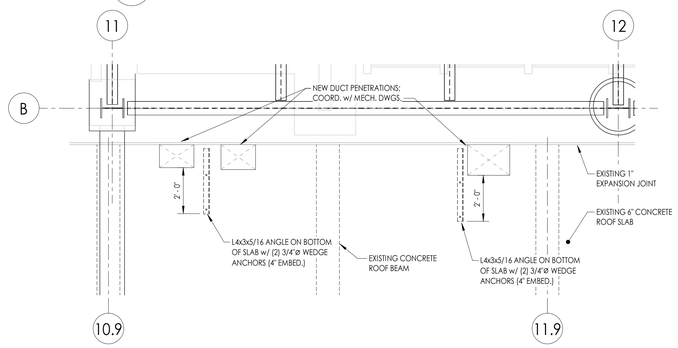
4 S201 **LONGITUDINAL SECTION**
3/4" = 1'-0"



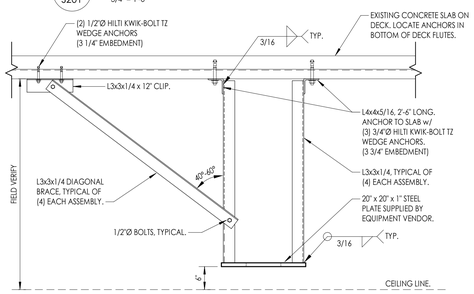
8 S201 **MONITOR BOOM MOUNT SUBSTRUCTURE**
3/4" = 1'-0"



5 S201 **TRANSVERSE SECTION**
3/4" = 1'-0"



9 S201 **ENLARGED PLAN @ PENETRATIONS**
3/8" = 1'-0"



6 S201 **ANESTHESIA BOOM MOUNT**
3/4" = 1'-0"

GENERAL NOTES

1. THE STRUCTURE SHOWN ON THESE DRAWING IS SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.
2. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS NOTED OTHERWISE.
3. ALL DESIGN, INCLUDING MATERIAL STRESSES AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH 2018 NORTH CAROLINA STATE BUILDING CODE, THE UNIFORM BUILDING CODE, OSHA AND GOVERNING AGENCIES HAVING JURISDICTION.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS SHOWN ON THE DRAWINGS AND IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO ORDERING OR FABRICATING MATERIALS OR OTHERWISE PROCEEDING WITH THE WORK..
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES REQUIRED TO EXECUTE AND COMPLETE ALL ITEMS OF WORK AS SHOWN OR INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN, INCLUDING INCIDENTAL ITEMS TO EFFECT A FINISHED AND COMPLETE JOB, EVEN THOUGH SUCH ITEMS ARE NOT SHOWN OR PARTICULARLY MENTIONED.
6. THE GENERAL CONTRACTOR SHALL USE CONSTRUCTION METHODS THAT ARE IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
7. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ADEQUATELY SHORING AND BRACING EXISTING CONSTRUCTION WHILE PERFORMING NEW WORK..
8. DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE ARE ANY QUESTIONS REGARDING DIMENSIONS, CONTACT THE ARCHITECT/ENGINEER FOR INFORMATION PRIOR TO SUBMITTING SHOP DRAWINGS.
9. THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL WORK WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, AND WITH THE WORK OF ALL OTHER TRADES.
10. THE CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF FLOOR, ROOF AND WALL PENETRATIONS WITH MECHANICAL, PLUMBING AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE APPROVED BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE.
11. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION ALL SITE APPURTENANCES DAMAGED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
12. INFORMATION IN THESE STRUCTURAL NOTES IS A SELECTED SUMMARY OF REQUIREMENTS. REFER TO SPECIFICATIONS FOR AMPLIFICATIONS OF REQUIREMENTS.
13. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE EITHER LOCATED ON COLUMN LINES OR ARE EQUALLY SPACED BETWEEN LOCATED MEMBERS.
14. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.

EXISTING CONSTRUCTION NOTES

1. BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBERS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW WORK TO THE EXISTING WORK.
3. WORK SHOWN ON THE DRAWINGS IS NEW, UNLESS NOTED AS EXISTING.
4. EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM DRAWINGS PREPARED BY THE FIRM OF HENNINGTON, DURHAM & RICHARDSON, INC., DATED 1991 AND LIMITED SITE OBSERVATION. THESE DRAWINGS OF EXISTING CONSTRUCTION ARE AVAILABLE FOR CONTRACTOR USE. HOWEVER, THE AVAILABLE DRAWINGS OF EXISTING CONSTRUCTION MAY NOT NECESSARILY BE COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT INFORMATION.
5. IF ANY ARCHITECTURAL, STRUCTURAL, OR MECHANICAL MEMBERS OR COMPONENTS NOT DESIGNATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND APPROVAL MUST BE OBTAINED PRIOR TO REMOVAL OF THOSE MEMBERS.
6. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION TO ALLOW THE INSTALLATION OF NEW WORK. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HIS ENGINEER.
7. THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE DESIGN PROFESSIONAL.
8. THE CONTRACTOR SHALL REMOVE FIREPROOFING AS REQUIRED TO FACILITATE CONNECTIONS OF NEW ELEMENTS TO EXISTING STRUCTURAL STEEL. CONTRACTOR SHALL RESTORE FIREPROOFING TO ORIGINAL REQUIRED UL ASSEMBLY RATING.
9. ALL DUCT PENETRATIONS THROUGH EXISTING CONCRETE SLAB SHALL BE CORE DRILLED AT THE CORNERS. DO NOT OVER CUT SLAB AT CORNERS.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND "THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
2. HOT ROLLED STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM ASTM A992. HOLLOW STRUCTURAL SHAPES (HSS) SHALL CONFORM TO ASTM A500 GRADE B. ANGLES, CHANNELS, AND OTHER MISCELLANEOUS METALS SHALL CONFORM TO ASTM A36.
3. STEEL CONNECTIONS ARE SHOWN SCHEMATICALLY. FABRICATOR IS RESPONSIBLE FOR DESIGN AND DETAILING OF CONNECTIONS, INCLUDING MATERIAL GRADE AND SIZES, WELD SIZES, AND NUMBER OF BOLTS. ADDITIONAL CONNECTION ELEMENTS MAY NOT BE SPECIFICALLY SHOWN ON THE SCHEMATIC DETAILS BUT MAY BE REQUIRED BY THE FINAL CONNECTION DESIGN, SUCH AS STIFFENER PLATES, DOUBLER PLATES, SUPPLEMENT / REINFORCING PLATES OR OTHER CONNECTION MATERIAL.
4. REACTIONS AND LOADS PROVIDED ON DRAWINGS ARE UNFACTORED.
5. EACH BEAM CONNECTION SHALL BE DESIGNED FOR ONE HALF OF THE TOTAL LOAD SHOWN IN THE AISC TABLES FOR THE RESPECTIVE SPAN UNLESS OTHERWISE NOTED. MINIMUM CONNECTION SHALL BE TWO (2) BOLTS. ALL BEAM CONNECTIONS SHALL BE WELDED CONNECTIONS, OR BOLTED CONNECTIONS USING GRADE A325 BOLTS, 3/4" DIAMETER.
6. CUTS, HOLES, COPES, ETC., REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS AND MADE IN THE SHOP. FIELD CUTTING OR BURNING WILL NOT BE PERMITTED.
7. ALL WELDING BOTH SHOP AND FIELD, SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS. WELDING ELECTRODES SHALL CONFORM TO ASTM A233, E70-XX. MINIMUM WELD SIZE SHALL BE 1/4 INCHES (FILLET) UNLESS OTHERWISE NOTED.
8. STRUCTURAL STEEL SHALL RECEIVE A SHOP COAT OF RUST INHIBITING PAINT EXCEPT AS FOLLOWS;
   A. WITHIN TWO INCHES OF FIELD WELDS
9. AFTER ERECTION, ALL DAMAGED AREAS IN THE SHOP COAT SHALL BE REPAIRED WITH THE SAME PAINT USED FOR THE SHOP COAT.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW.

UNISTRUT NOTES

1. USE UNISTRUT 1/2"-13 THREAD HEX HEAD CAP SCREWS AND P1010 SPRING CHANNEL NUTS FOR ALL UNISTRUT FITTINGS AND CONNECTIONS, U.N.O. (AT CONTRACTORS OPTION, UNISTRUT 1/2"-13 CHANNEL STUD NUTS w/ SPRINGS AND HEX NUTS MAY BE SUBSTITUTED.)
2. FASTENER INSTALLATION TORQUE = 50 FT-LBS.
   A. ALLOWABLE PULLOUT WITH 12GA UNISTRUT = 2000 LBS.
   B. ALLOWABLE SLIP WITH 12GA UNISTRUT = 1500 LBS.

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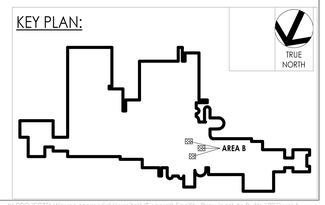
PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. ARCHITECTURE, ENGINEERING, CONSULTING 51301 NORTH CAROLINA Charlotte, North Carolina

NORTH CAROLINA PROFESSIONAL SEAL 051272 ENGINEER BRIAN S. COOK 11/11/2025

KEY PLAN:



SHEET INFORMATION

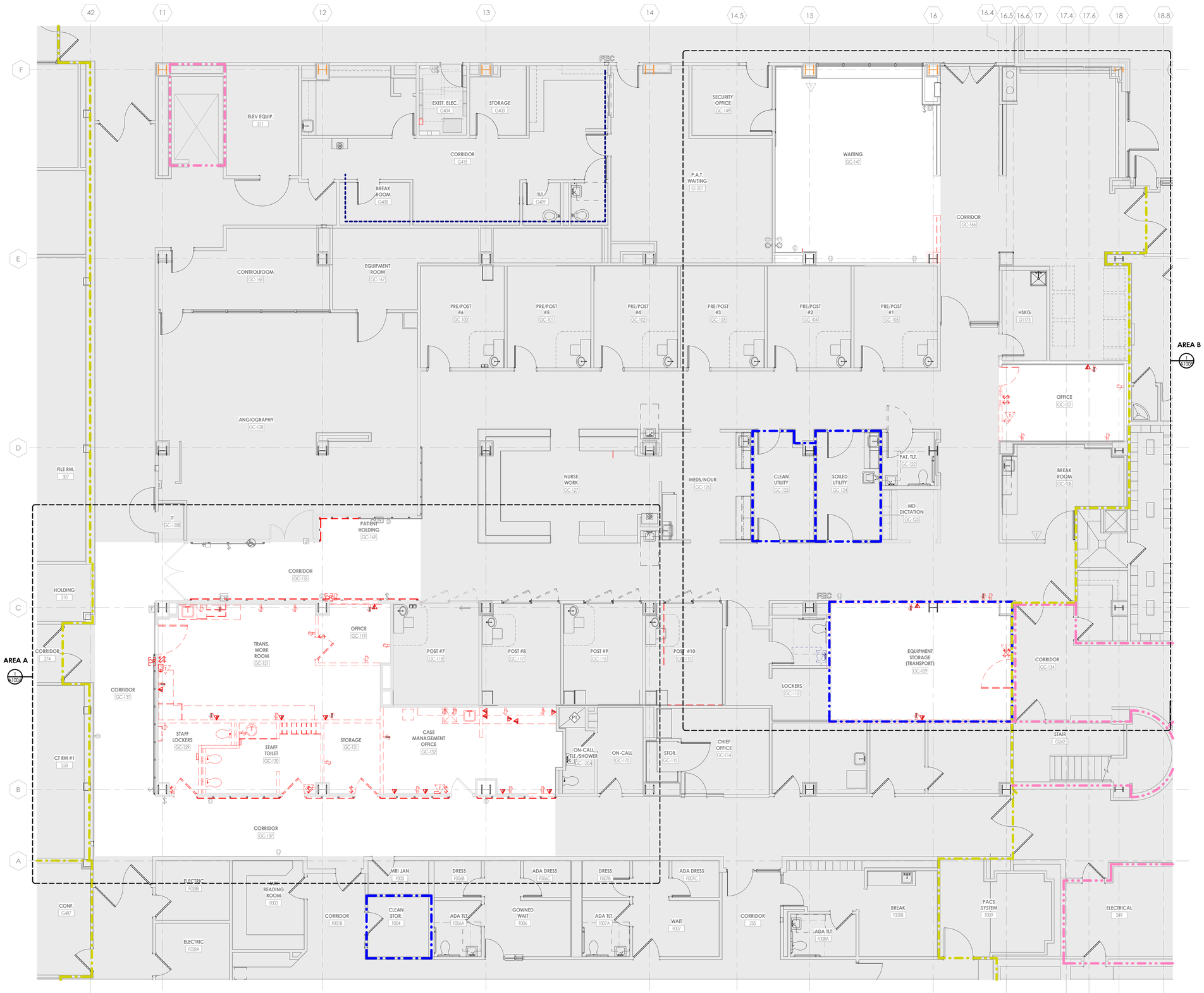
Issued	Scale
11/14/2025	As indicated

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By	Checked By
CPL	BSC

Drawing Title
MEDICAL EQUIPMENT SUBSTRUCTURE PLANS, DETAILS AND NOTES

Drawing Number
S201



1 A100 **GROUND FLOOR DEMOLITION FLOOR PLAN - OVERALL**
3/16" = 1'-0"

DEMOLITION GENERAL NOTES

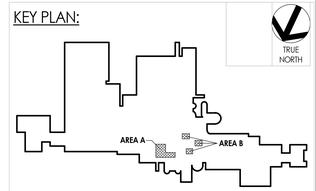
1. REFER TO THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DEMOLITION OF EXISTING UTILITIES AND SERVICES.
2. ALL ITEMS TO BE SALVAGED WITHIN THE DEMOLITION AREA WILL BE REMOVED BY THE OWNER PRIOR TO ONSET OF DEMOLITION WORK.
3. **BUILDINGS THAT ARE OCCUPIED DURING CONSTRUCTION TO FOLLOW ICRA, INCLUDING BUT NOT LIMITED TO: MAINTAIN NEGATIVE AIR PRESSURE THROUGHOUT CONSTRUCTION AREA TO CONTAIN CONSTRUCTION DUST. PROVIDE DUST CONTROL BARRIERS AT ALL AREAS OF DEMOLITION AND CONSTRUCTION. BUILD AND PAINT TEMPORARY PARTITIONS THAT ARE ABLE TO BE WIPED DOWN AND CLEANED. MAINTAIN EMERGENCY EGRESS OF OCCUPIED AREAS AT ALL TIMES. DUST CONTROL AND EGRESS PARTITIONS ARE TO BE CONSTRUCTED AND/ OR RELOCATED PER EACH PHASE OF CONSTRUCTION AS THE PROJECT PROGRESSES AND AS COORDINATED WITH OWNER OCCUPANCY.**
4. REMAINING SUBSTRATES SHALL BE LEFT IN A CONDITION ACCEPTABLE TO RECEIVE NEW WORK. WHERE NEW FINISHES ARE SCHEDULED AT EXISTING CONDITIONS, REMOVE EXISTING FINISHES DOWN TO SUBSTRATE AND PREPARE SURFACE FOR NEW FINISH.
5. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING FINISHES AND EQUIPMENT NOT REMOVED UNDER THE SCOPE OF WORK. ANY DAMAGE WILL BE REPAIRED TO THE OWNER/ARCHITECT'S SATISFACTION.
6. POWER, COMMUNICATION, FIRE PROTECTION & MEDICAL GAS SHUT DOWNS SHALL NOT EFFECT PORTIONS OF BUILDING(S) THAT NEED TO REMAIN IN USE. CONTRACTOR TO REROUTE OR PROVIDE TEMPORARY POWER, COMMUNICATION, FIRE PROTECTION AND MEDICAL GAS. COORDINATE SHUT DOWNS WITH OWNER AND GENERAL CONTRACTOR.
7. REMOVE AND REPLACE EXISTING CEILINGS, UNLESS NOTED OTHERWISE ON THE DRAWINGS, FOR PERFORMING DEMOLITION OF ALL WORK INDICATED ON THE CONSTRUCTION DRAWINGS. THE EXISTING CEILING SHALL BE REMOVED AND REPLACED IN A MANNER TO AVOID DAMAGE TO THE WALL SYSTEM.
8. NOTIFY ARCHITECT AND OWNER OF EXISTING DUCTWORK, PIPE, AND CONDUIT PENETRATIONS EXPOSED AFTER DEMOLITION THAT ARE NOT FIRESTOPPED THROUGH EXISTING FLOORS AND WALLS IDENTIFIED AS FIRE AND/OR SMOKE RATED ON LIFE SAFETY PLANS. EXISTING NON-COMPLIANT PENETRATIONS ARE TO BE FIRESTOPPED.
9. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOM CLEANED AT END OF EACH DAY.
10. IN ALL LOCATIONS THAT A DOOR IS ILLUSTRATED TO BE DEMOLISHED, REMOVE AND DISPOSE OF DOOR, FRAME, HARDWARE AND ALL ASSOCIATED ITEMS, UNLESS NOTED OTHERWISE.
11. ALL ITEMS SHOWN WITH A DASHED LINE ARE TO BE REMOVED AND DISPOSED OF UNLESS NOTED OTHERWISE.
12. SINKS INDICATED WITHIN MILLWORK BEING REMOVED SHALL ALSO BE REMOVED AND DISPOSED OF, ALONG WITH ALL ASSOCIATED ITEMS. COORDINATE WITH PLUMBING DRAWINGS.
13. TYPICAL BUILDING COMPONENTS TO BE LEFT IN PLACE WHICH ARE NOT TO BE DEMOLISHED, UNLESS NOTED OTHERWISE:
    A. FIREPROOFING ON COLUMNS AND BEAMS WHICH IS NOT PART OF A WALL OR CEILING SYSTEM. THIS INCLUDES PLASTER, MASONRY, AND CONCRETE-COVERS WHICH MAY BE ENCAPSULATED BY THE WALL OR CEILING ASSEMBLIES.
    B. ELECTRIC, PLUMBING AND HVAC LINES FEEDING AREAS TO REMAIN IN OPERATION. COORDINATE WITH MEP DRAWINGS.
    C. ANY STRUCTURES UNCOVERED AS A RESULT OF DEMOLITION WHICH APPEAR TO BE SUPPORTING IN NATURE AND REQUIRING VERIFICATION PRIOR TO DEMOLITION. THIS INCLUDES EQUIPMENT SUPPORTS AND STRUCTURE ADDED AS A RESULT OF PREVIOUS CONSTRUCTION OR ADDITIONS.
14. THE OWNER WILL REMOVE ALL MOVEABLE OR UNATTACHED ITEMS TO BE SAVED OR STORED PRIOR TO CONTRACTORS' SALVAGE OPERATIONS. ITEMS TO BE SALVAGED INCLUDE BUT ARE NOT LIMITED TO, THOSE ITEMS SHOWN ON THE DRAWINGS.
15. OWNER HAS THE RIGHT TO SALVAGE ANY FIXTURES AND/OR MILLWORK WITHIN AN AREA OF DEMOLITION PRIOR TO CONTRACTOR STARTING WORK IN THAT ZONE. COORDINATE TIMING OF SUCH REMOVALS WITH OWNER.
16. RECONSTRUCT EXISTING FIREPROOFING DUE TO WALL, CEILING OR EQUIPMENT DEMOLITION. REFER TO **G-SERIES** DRAWINGS FOR PROTECTION RATING REQUIREMENTS.
17. IN THE CASE THAT ANY SUSPICIOUS MATERIALS ARE UNCOVERED THAT APPEAR TO CONTAIN HAZARDOUS MATERIALS SUCH AS BUT NOT LIMITED TO MOLD, LEAD PAINT OR ASBESTOS, LEAVE THE PREMISES AND NOTIFY THE OWNER & ABATEMENT CONTRACTOR FOR REQUIRED TESTING AND/OR REMOVALS.

DEMOLITION LEGEND

EXISTING TO REMAIN

DEMOLISHED

KEY PLAN:



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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. REGISTERED ARCHITECTURAL CORPORATION 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD FUHAN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C. 11/14/2025

SHEET INFORMATION

Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: GROUND FLOOR DEMOLITION PLAN - OVERALL
Drawing Number: A100

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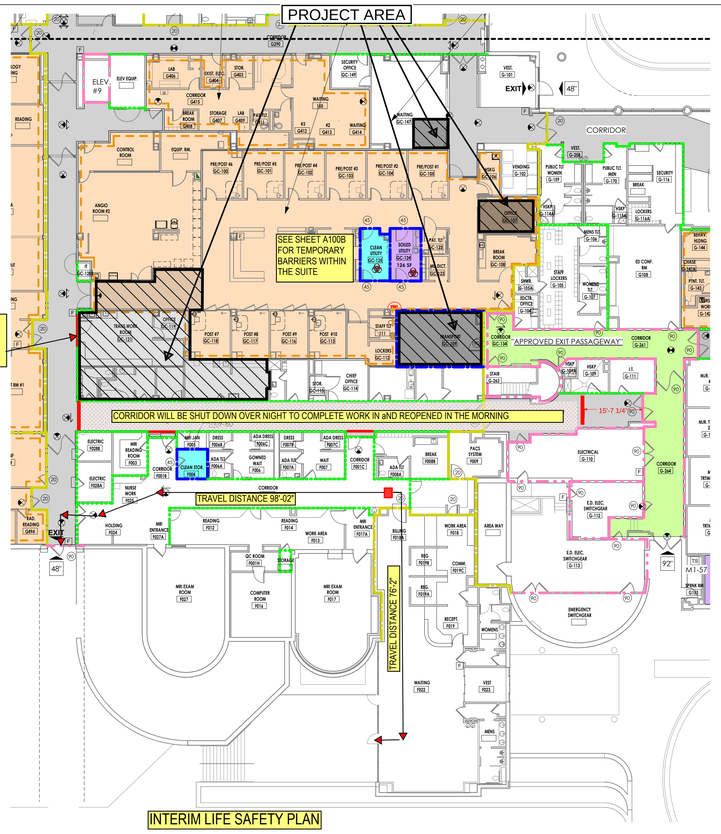

GENERAL ICRA NOTES

1. CONTRACTOR TO PROVIDE LAYOUT ON FLOOR TO BE REVIEWED BY STAFF, SECURITY, AND FACILITIES PRIOR TO CONSTRUCTION OF HARD ICRA WALLS.
2. G.C. TO NOTIFY FACILITIES, INFECTION CONTROL, SAFETY, AND ENGINEERING OF COMPLETED ICRA INSTALLATION FOR INSPECTION PRIOR TO ANY COMMMENCEMENT OF DEMO WORK.
3. NEGATIVE AIR MACHINES AND MAGNEHELIC GAUGES TO BE INCLUDED IN SCOPE.
4. ISOLATION OF HVAC VENTS, DUCTS, AND UNITS PRIOR TO ICRA INSPECTION.

ICRA NOTES:
1. ALL LOCATIONS WITHIN A PATIENT UNIT.
2. CLASS V ICRA REQUIREMENTS.

ICRA NOTES:
1. SCHEDULE ALL WORK WITH FACILITIES.
2. CLOSE AND SEAL DOOR TO ISOLATE ROOM.
3. SHUT DOWN VAVS.
4. USE POWER TOOLS WITH HEPA VAC ATTACHMENTS.
5. REFER TO GENERAL WORK NOTES AND GENERAL ICRA NOTES.

DEMOLITION GENERAL NOTES

1. REFER TO THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DEMOLITION OF EXISTING UTILITIES AND SERVICES.
2. ALL ITEMS TO BE SALVAGED WITHIN THE DEMOLITION AREA WILL BE REMOVED BY THE OWNER PRIOR TO ONSET OF DEMOLITION WORK.
3. **BUILDINGS THAT ARE OCCUPIED DURING CONSTRUCTION TO FOLLOW ICRA, INCLUDING BUT NOT LIMITED TO: MAINTAIN NEGATIVE AIR PRESSURE THROUGHOUT CONSTRUCTION AREA TO CONTAIN CONSTRUCTION DUST. PROVIDE DUST CONTROL BARRIERS AT ALL AREAS OF DEMOLITION AND CONSTRUCTION. BUILD AND PAINT TEMPORARY PARTITIONS THAT ARE ABLE TO BE WIPED DOWN AND CLEANED. MAINTAIN EMERGENCY EGRESS OF OCCUPIED AREAS AT ALL TIMES. DUST CONTROL AND EGRESS PARTITIONS ARE TO BE CONSTRUCTED AND/ OR RELOCATED PER EACH PHASE OF CONSTRUCTION AS THE PROJECT PROGRESSES AND AS COORDINATED WITH OWNER OCCUPANCY.**
4. REMAINING SUBSTRATES SHALL BE LEFT IN A CONDITION ACCEPTABLE TO RECEIVE NEW WORK. WHERE NEW FINISHES ARE SCHEDULED AT EXISTING CONDITIONS, REMOVE EXISTING FINISHES DOWN TO SUBSTRATE AND PREPARE SURFACE FOR NEW FINISH.
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8. NOTIFY ARCHITECT AND OWNER OF EXISTING DUCTWORK, PIPE, AND CONDUIT PENETRATIONS EXPOSED AFTER DEMOLITION THAT ARE NOT FIRESTOPPED THROUGH EXISTING FLOORS AND WALLS IDENTIFIED AS FIRE AND/OR SMOKE RATED ON LIFE SAFETY PLANS. EXISTING NON-COMPLIANT PENETRATIONS ARE TO BE FIRESTOPPED.
9. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOM CLEANED AT END OF EACH DAY.
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    B. ELECTRIC, PLUMBING AND HVAC LINES FEEDING AREAS TO REMAIN IN OPERATION. COORDINATE WITH MEP DRAWINGS.
    C. ANY STRUCTURES UNCOVERED AS A RESULT OF DEMOLITION WHICH APPEAR TO BE SUPPORTING IN NATURE AND REQUIRING VERIFICATION PRIOR TO DEMOLITION. THIS INCLUDES EQUIPMENT SUPPORTS AND STRUCTURE ADDED AS A RESULT OF PREVIOUS CONSTRUCTION OR ADDITIONS.
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DEMOLITION LEGEND

EXISTING TO REMAIN

DEMOLISHED

DEMOLITION KEYED NOTES

C1 REMOVE LIGHTS, DIFFUSERS, BULKHEADS, GYP. BOARD CEILINGS, AND ACOUSTIC CEILING IN ITS ENTIRETY. REFER TO MEP DRAWINGS.

C2 G.C. SHALL REMOVE PORTIONS OF EXISTING CEILING REQUIRED FOR ABOVE CEILING MEP AND STRUCTURAL. ABOVE CEILING WORK SILL BE DONE DURING OFF HOURS AND/ OR OVER A WEEKEND. G.C. SHALL STORE CEILING IN LOCATION AGREED UPON BY OWNER. G.C. SHALL REINSTALL CEILING AFTER WORK SHIFT AND WHEN ABOVE CEILING WORK IS COMPLETE.

D1 REMOVE DOOR, HOLLOW METAL FRAME AND HARDWARE. SALVAGE HARDWARE AS INDICATED BY OWNER.

D2 --

E1 --

F1 REMOVE EXISTING FLOOR FINISHES, BASE AND MASTIC. PREPARE EXISTING CONCRETE SLAB FOR NEW FINISHES AS SCHEDULED.

F2 FLOAT ENTIRE CATH LAB 1 FLOOR AREA WITH FLOWABLE SELF-LEVELING CEMENTITIOUS CONCRETE TO LEVEL AREA. REFER TO PHILIPS DRAWINGS FOR FLOOR LEVELING REQUIREMENTS.

F3 SAW CUT EXISTING SLAB FOR NEW ELECTRICAL CONDUIT AND FLOOR PEDESTAL. REFER TO PHILIPS DRAWINGS FOR EQUIPMENT ELECTRICAL PLAN. PATCH/ REPAIR FLOOR PER FLOOR PATCH DETAILS AND PREPARE NEW FLOOR FINISHES AS SCHEDULED. CATH LAB ROOM FLOOR TO BE LEVELED AND SURFACE MUST BE SMOOTH.

M1 REMOVE EXISTING CASEWORK (INCLUDING COUNTER TOPS, BASE CABINETS AND OR WALL CABINETS AND SUPPORTS). SALVAGE AS INDICATED BY OWNER.

M2 REMOVE EXISTING SINK, WALL CABINETS, BASE CABINETS AND COUNTER TOP. PATCH GYPSUM BOARD WALL AT CASEWORK REMOVAL. CAP PLUMBING LINES ABOVE CEILING AND TAG. CAP DRAIN LINES BELOW FLOOR. SALVAGE CABINETS AND SINK AS INDICATED BY OWNER.

M3 REMOVE AND RELOCATE EXISTING WALL MOUNTED SHELF AND BRACKETS TO NEW PATIENT HOLDING AREA.

P1 REMOVE PLUMBING FIXTURES, PIPING, SUPPORTS AND RELATED TOILET ROOM ACCESSORIES IN THEIR ENTIRETY. PATCH/ REPAIR ADJACENT SURFACES.

W1 REMOVE METAL STUD AND GYPSUM BOARD WALL. PATCH/ REPAIR ADJACENT SURFACES. TYPICAL FOR ALL WALLS SHOWN AS DASHED ON DEMOLITION PLAN.

W2 REMOVE METAL STUD AND GYPSUM BOARD WALL TO DIMENSIONS INDICATED FOR NEW DOOR INSTALLATION.

W3 REMOVE HALF-HEIGHT WALL AND GLAZING IN ITS ENTIRETY. PATCH ADJACENT SURFACES AS REQUIRED.

W4 REMOVE EXISTING HANDRAIL, WALL GUARD AND RIGID SHEET WALL PROTECTION FOR NEW CONSTRUCTION. PATCH AND REPAIR ADJACENT SURFACES.

W5 REMOVE EXISTING GWB AT PERIMETER OF NEW CATH LAB AND REPLACE WITH NEW LEAD LINED GWB. REFER TO NEW WORK PLAN AND SHIELDING PLAN.

W6 REMOVE EXISTING WALL PROTECTION (INCLUDING WALL GUARDS, CORNER & END GUARDS, HANDRAIL, BUMPER RAIL, CHAIR RAIL, AND SHEET WALL PROTECTION). SALVAGE EXISTING WOOD HANDRAILS AND WOOD BUMPER RAILS FOR REINSTALLATION AT CORRIDORS. PATCH / REPAIR EXISTING WALLS AND PREPARE FOR NEW FINISHES AS SCHEDULED.

W7 REMOVE EXISTING HANDRAIL AND RIGID SHEET WALL PROTECTION WHERE INDICATED ON DEMO PLAN. SALVAGE FOR RELOCATION AT NORTH/SOUTH CORRIDOR.

W8 REMOVE EXISTING WALLCOVERING. PATCH AND REPAIR WALLS FOR NEW PAINT FINISH.

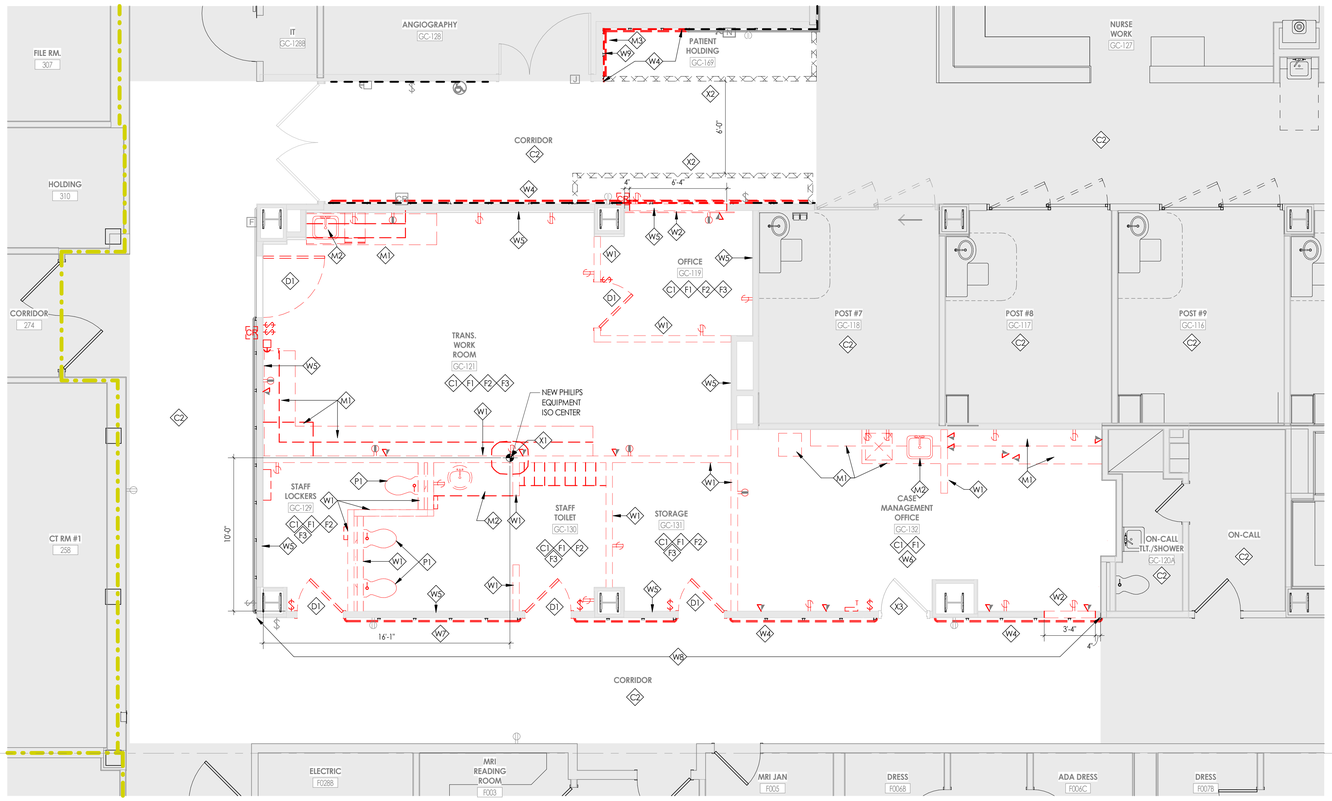
W9 REMOVE EXISTING HANDRAIL. RELOCATE TO NEW WALL AS INDICATED ON NEW WORK PLAN & ROOM FINISH PLAN. PATCH & REPAIR ADJACENT SURFACES.

W10 RATED WALL TO BE DOWN GRADED TO NON-RATED. REMOVE WALL LABELS ON BOTH SIDES. SEE MECHANICAL DWGS. FOR REMOVAL OR DEACTIVATION OF FIRE DAMPERS.

X1 COORDINATE INSTALLATION OF PHILIPS AD7 FLOOR PLATE WITH PHILIPS DRAWINGS, MEP AND STRUCTURAL DRAWINGS. PREPARE FLOOR FINISHES AS SCHEDULED.

X2 PROVIDE RIGID AND SOLID ICRA PARTITIONS, CLOSING OFF WORK AREA FROM HABITABLE SPACES WITH EXISTING BUILDING. LEVEL 5 PARTITIONS TO EXTEND FULL HEIGHT TO EXISTING FLOOR DECK ABOVE. COORDINATE LOCATION OF ICRA PARTITIONS WITH OWNER. REFER TO ICRA WALL TYPE T3 ON SHEET A400.

X3 KEEP DOOR CLOSED DURING ALL CONSTRUCTION ACTIVITIES. PROVIDE TACKY MATS ON BOTH SIDES OF DOOR AND MAINTAIN NEGATIVE AIR PRESSURE PER ICRA CLASS 3 REQUIREMENTS.



1 A100A **GROUND FLOOR DEMOLITION FLOOR PLAN - ENLARGED AREA A**
1/4" = 1'-0"

KEY PLAN:

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. 51301 ARCHITECTURAL CORPORATION NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD RYAN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C. 11/14/2025

SHEET INFORMATION

Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: Author
Checked By: Checker
Drawing Title: ENLARGED GROUND FLOOR DEMOLITION PLAN - AREA A
Drawing Number: A100A

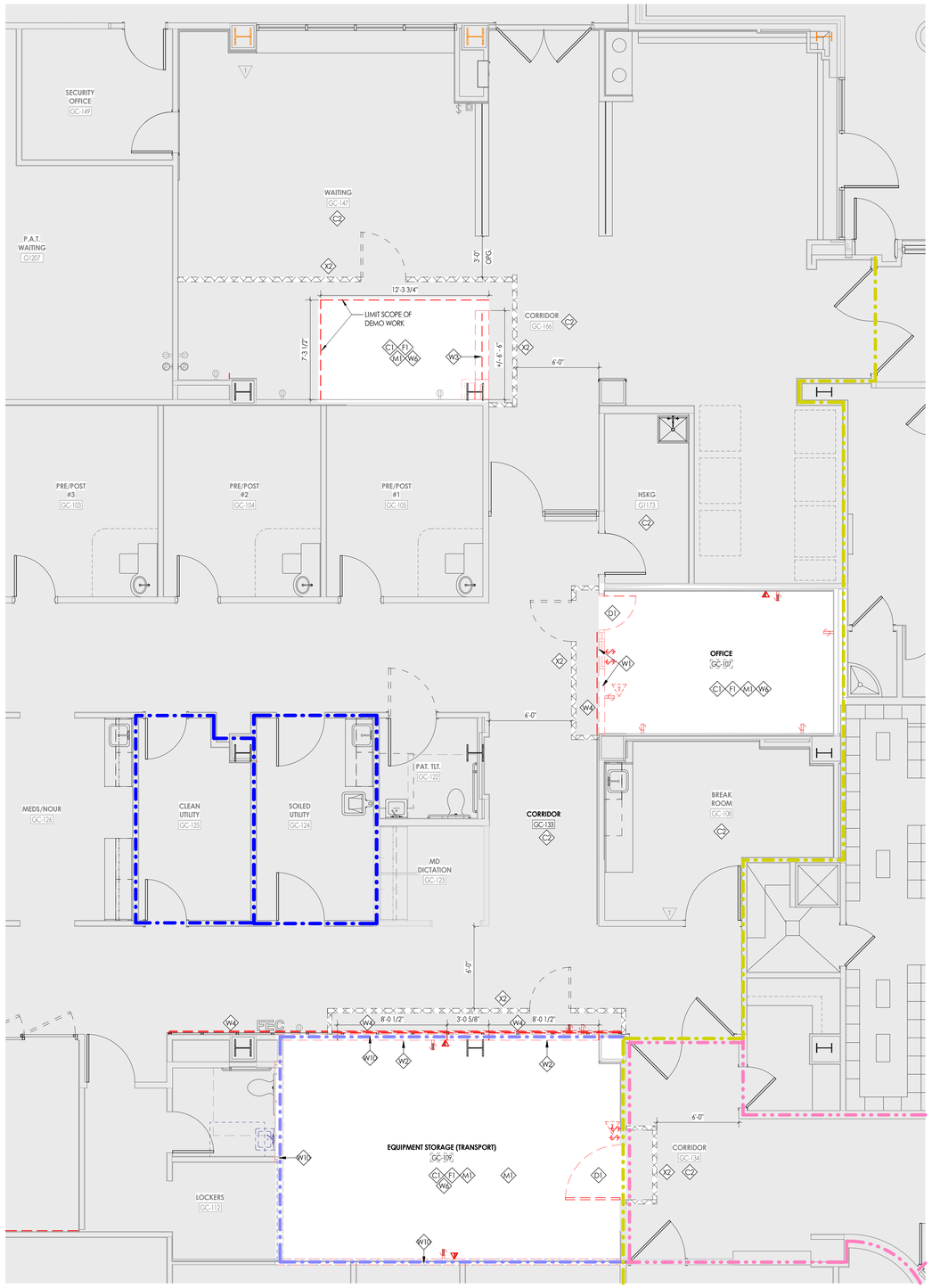
11/12/2025 11:11:42 AM PROJECT FILES ON ACC

GENERAL ICRA NOTES

1. CONTRACTOR TO PROVIDE LAYOUT ON FLOOR TO BE REVIEWED BY STAFF, SECURITY, AND FACILITIES PRIOR TO CONSTRUCTION OF HARD ICRA WALLS.
2. G.C. TO NOTIFY FACILITIES, INFECTION CONTROL, SAFETY, AND ENGINEERING OF COMPLETED ICRA INSTALLATION FOR INSPECTION PRIOR TO ANY COMMMENCEMENT OF DEMO WORK.
3. NEGATIVE AIR MACHINES AND MAGNEHELIC GAUGES TO BE INCLUDED IN SCOPE.
4. ISOLATION OF HVAC VENTS, DUCTS, AND UNITS PRIOR TO ICRA INSPECTION.

ICRA NOTES:
1. ALL LOCATIONS WITHIN A PATIENT UNIT.
2. CLASS V ICRA REQUIREMENTS.

ICRA NOTES:
1. SCHEDULE ALL WORK WITH FACILITIES.
2. CLOSE AND SEAL DOOR TO ISOLATE ROOM.
3. SHUT DOWN VAVS.
4. USE POWER TOOLS WITH HEPA VAC ATTACHMENTS.
5. REFER TO GENERAL WORK NOTES AND GENERAL ICRA NOTES.



1 A100B **GROUND FLOOR DEMOLITION FLOOR PLAN - ENLARGED AREA B**

1/4" = 1'-0"

DEMOLITION GENERAL NOTES

1. REFER TO THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DEMOLITION OF EXISTING UTILITIES AND SERVICES.
2. ALL ITEMS TO BE SALVAGED WITHIN THE DEMOLITION AREA WILL BE REMOVED BY THE OWNER PRIOR TO ONSET OF DEMOLITION WORK.
3. **BUILDINGS THAT ARE OCCUPIED DURING CONSTRUCTION TO FOLLOW ICRA, INCLUDING BUT NOT LIMITED TO: MAINTAIN NEGATIVE AIR PRESSURE THROUGHOUT CONSTRUCTION AREA TO CONTAIN CONSTRUCTION DUST. PROVIDE DUST CONTROL BARRIERS AT ALL AREAS OF DEMOLITION AND CONSTRUCTION. BUILD AND PAINT TEMPORARY PARTITIONS THAT ARE ABLE TO BE WIPED DOWN AND CLEANED. MAINTAIN EMERGENCY EGRESS OF OCCUPIED AREAS AT ALL TIMES. DUST CONTROL AND EGRESS PARTITIONS ARE TO BE CONSTRUCTED AND/ OR RELOCATED PER EACH PHASE OF CONSTRUCTION AS THE PROJECT PROGRESSES AND AS COORDINATED WITH OWNER OCCUPANCY.**
4. REMAINING SUBSTRATES SHALL BE LEFT IN A CONDITION ACCEPTABLE TO RECEIVE NEW WORK. WHERE NEW FINISHES ARE SCHEDULED AT EXISTING CONDITIONS, REMOVE EXISTING FINISHES DOWN TO SUBSTRATE AND PREPARE SURFACE FOR NEW FINISH.
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8. NOTIFY ARCHITECT AND OWNER OF EXISTING DUCTWORK, PIPE, AND CONDUIT PENETRATIONS EXPOSED AFTER DEMOLITION THAT ARE NOT FIRESTOPPED THROUGH EXISTING FLOORS AND WALLS IDENTIFIED AS FIRE AND/OR SMOKE RATED ON LIFE SAFETY PLANS. EXISTING NON-COMPLIANT PENETRATIONS ARE TO BE FIRESTOPPED.
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DEMOLITION LEGEND

EXISTING TO REMAIN

DEMOLISHED

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D2 --

E1 --

F1 REMOVE EXISTING FLOOR FINISHES, BASE AND MASTIC. PREPARE EXISTING CONCRETE SLAB FOR NEW FINISHES AS SCHEDULED.

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F3 SAW CUT EXISTING SLAB FOR NEW ELECTRICAL CONDUIT AND FLOOR PEDESTAL. REFER TO PHILIPS DRAWINGS FOR EQUIPMENT ELECTRICAL PLAN. PATCH/ REPAIR FLOOR PER FLOOR PATCH DETAILS AND PREPARE NEW FLOOR FINISHES AS SCHEDULED. CATH LAB ROOM FLOOR TO BE LEVELED AND SURFACE MUST BE SMOOTH.

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M2 REMOVE EXISTING SINK, WALL CABINETS, BASE CABINETS AND COUNTER TOP. PATCH GYPSUM BOARD WALL AT CASEWORK REMOVAL. CAP PLUMBING LINES ABOVE CEILING AND TAG. CAP DRAIN LINES BELOW FLOOR. SALVAGE CABINETS AND SINK AS INDICATED BY OWNER.

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W4 REMOVE EXISTING HANDRAIL, WALL GUARD AND RIGID SHEET WALL PROTECTION FOR NEW CONSTRUCTION. PATCH AND REPAIR ADJACENT SURFACES.

W5 REMOVE EXISTING GWB AT PERIMETER OF NEW CATH LAB AND REPLACE WITH NEW LEAD LINED GWB. REFER TO NEW WORK PLAN AND SHIELDING PLAN.

W6 REMOVE EXISTING WALL PROTECTION (INCLUDING WALL GUARDS, CORNER & END GUARDS, HANDRAIL, BUMPER RAIL, CHAIR RAIL, AND SHEET WALL PROTECTION). SALVAGE EXISTING WOOD HANDRAILS AND WOOD BUMPER RAILS FOR REINSTALLATION AT CORRIDORS. PATCH / REPAIR EXISTING WALLS AND PREPARE FOR NEW FINISHES AS SCHEDULED.

W7 REMOVE EXISTING HANDRAIL AND RIGID SHEET WALL PROTECTION WHERE INDICATED ON DEMO PLAN. SALVAGE FOR RELOCATION AT NORTH/SOUTH CORRIDOR.

W8 REMOVE EXISTING WALLCOVERING. PATCH AND REPAIR WALLS FOR NEW PAINT FINISH.

W9 REMOVE EXISTING HANDRAIL. RELOCATE TO NEW WALL AS INDICATED ON NEW WORK PLAN & ROOM FINISH PLAN. PATCH & REPAIR ADJACENT SURFACES.

W10 RATED WALL TO BE DOWN GRADED TO NON-RATED. REMOVE WALL LABELS ON BOTH SIDES. SEE MECHANICAL DWGS. FOR REMOVAL OR DEACTIVATION OF FIRE DAMPERS.

X1 COORDINATE INSTALLATION OF PHILIPS AD7 FLOOR PLATE WITH PHILIPS DRAWINGS, MEP AND STRUCTURAL DRAWINGS. PREPARE FLOOR FINISHES AS SCHEDULED.

X2 PROVIDE RIGID AND SOLID ICRA PARTITIONS, CLOSING OFF WORK AREA FROM HABITABLE SPACES WITH EXISTING BUILDING. LEVEL 5 PARTITIONS TO EXTEND FULL HEIGHT TO EXISTING FLOOR DECK ABOVE. COORDINATE LOCATION OF ICRA PARTITIONS WITH OWNER. REFER TO ICRA WALL TYPE T3 ON SHEET A400.

X3 KEEP DOOR CLOSED DURING ALL CONSTRUCTION ACTIVITIES. PROVIDE TACKY MATS ON BOTH SIDES OF DOOR AND MAINTAIN NEGATIVE AIR PRESSURE PER ICRA CLASS 3 REQUIREMENTS.

KEY PLAN:

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com

NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. — REGISTERED ARCHITECTURAL CORPORATION — 51301 — NORTH CAROLINA — Charlotte, North Carolina

KENNETH ARNOLD RYAN — REGISTERED ARCHITECT — 8924 — NORTH CAROLINA — CHARLOTTE, N.C. — 11/14/2025

SHEET INFORMATION

Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: Author
Checked By: Checker
Drawing Title: ENLARGED GROUND FLOOR DEMOLITION PLAN - AREA B
Drawing Number: A100B

11/13/2025 11:11:45 AM PROJECT FILES ON ACC

1 A200 **GROUND FLOOR NEW WORK PLAN - OVERALL**
3/16" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. CONTRACTOR TO PROVIDE ADEQUATE WALL BLOCKING FOR ALL WALL-MOUNTED CABINETS, FIXTURES, ACCESSORIES, AND EQUIPMENT, INCLUDING ITEMS FURNISHED BY OTHERS. REFER TO TYPICAL FIXTURE AND ACCESSORY LEGENDS.
2. **PATCH AND FINISH ALL EXISTING WALLS TO REMAIN WITHIN THE PROJECT LIMIT AREA TO RECEIVE SPECIFIED FINISHES.**
3. **PROVIDE CONCRETE FLOOR PATCH AND FLOOR LEVELING AT EXISTING CONCRETE FLOORS FOR NEW FINISHES.**
4. **ALL EXISTING EXPANSION JOINT COVERS OR ASSEMBLIES ARE TO BE PROTECTED AND MAINTAINED DURING THE COURSE OF CONSTRUCTION UNLESS NOTED OTHERWISE.**
5. COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.
6. **REFER TO TYPICAL FIXTURE & ACCESSORIES LEGEND FOR FURNISH AND INSTALL SCOPE OF EQUIPMENT AND ACCESSORIES.**
7. EQUIPMENT SHOWN ON THESE DOCUMENTS IS FOR REFERENCE ONLY AND IS FOR COORDINATION OF REQUIRED MEP INFRASTRUCTURE. REFER TO OWNER FURNISHED EQUIPMENT DRAWINGS AND SUBMITTALS FOR FINAL COORDINATION AND INSTALLATION REQUIREMENTS INCLUDING BUT NOT LIMITED TO: DIMENSIONS, LOCATIONS & MEP CONNECTION LOCATIONS.
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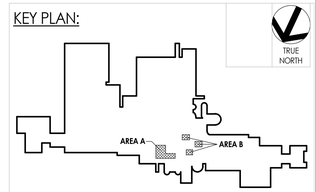
9. CONSULT WITH ARCHITECT TO FINALIZE LOCATIONS OF ANY EXPOSED CONTROL JOINTS PRIOR TO INSTALLATION.
10. ALL QUANTITIES / SQUARE FOOTAGES SHOWN ARE FOR REFERENCE ONLY AND ARE TO BE VERIFIED BY THE CONTRACTOR.

SYMBOLS LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

300-1	DOOR TAG	HM-A	GLAZING SYSTEM TAG
1 A	NEW COLUMN GRID LINE	1 A	EXISTING COLUMN GRID LINE
ROOM NAME H1234.2 150 SF	ROOM TAG	XXX	PARTITION TYPE TAG
### ## ##	CASEWORK TAG	11	ACCESSORY TAG
1	REVISION NO. 1	11	EQUIPMENT SYMBOL (NUMBER)
1 A300	WALL SECTION MARK	1 A300 / 1 A300	BUILDING SECTION MARK
2 A701	INTERIOR ELEVATION MARK	3 A301	EXTERIOR ELEVATION MARK
	DENOTES FINISH FLOOR GRADE ELEVATION	1 A4.1	DETAIL FOR REFERENCE MARK
	NON-COMBUSTIBLE TEMPORARY BARRIER		

KEY PLAN:



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SHEET INFORMATION

Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: GROUND FLOOR NEW WORK PLAN - OVERALL
Drawing Number: A200

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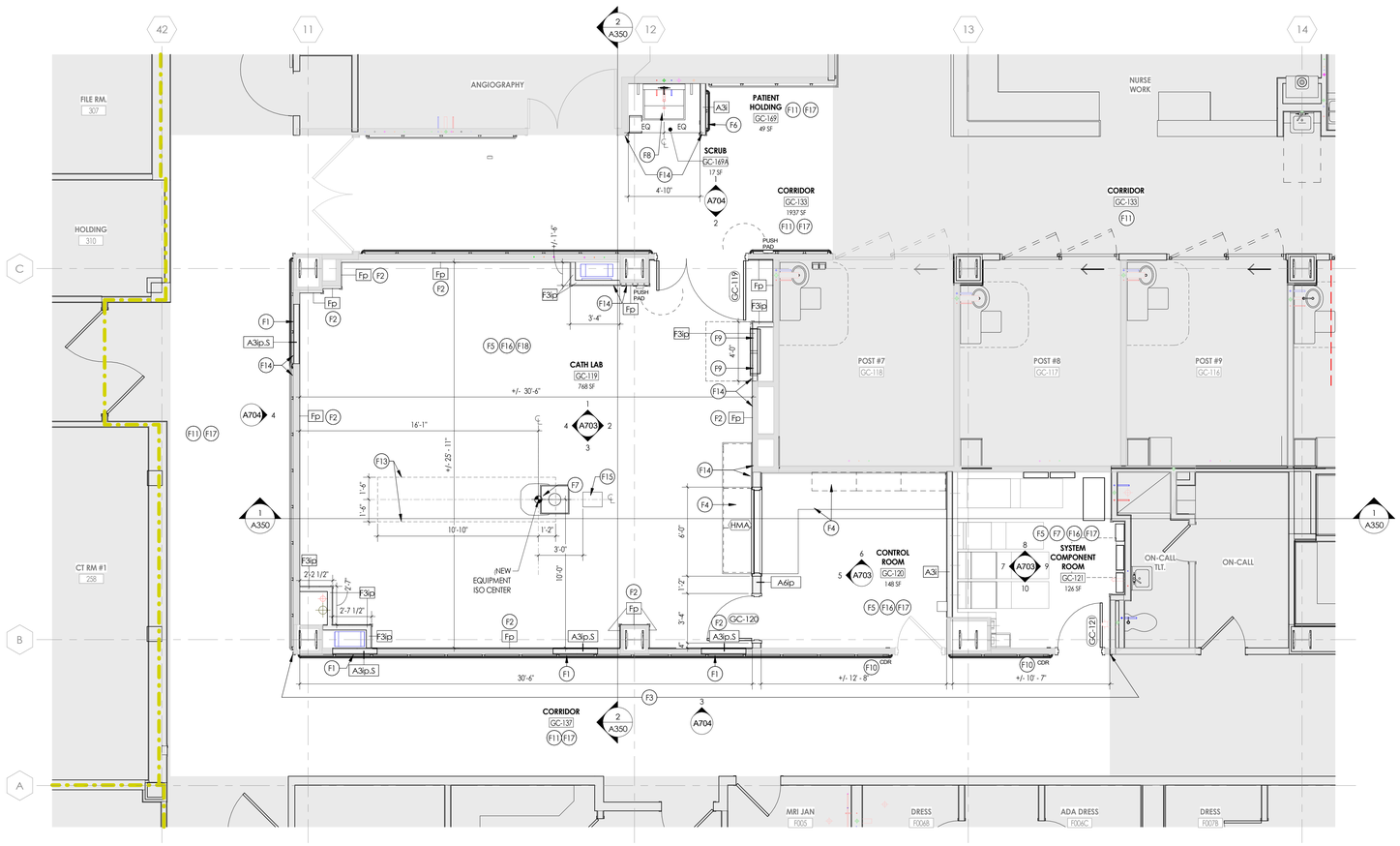

1 A200A **GROUND FLOOR NEW WORK PLAN - ENLARGED - AREA A**

1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. CONTRACTOR TO PROVIDE ADEQUATE WALL BLOCKING FOR ALL WALL-MOUNTED CABINETS, FIXTURES, ACCESSORIES, AND EQUIPMENT, INCLUDING ITEMS FURNISHED BY OTHERS. REFER TO TYPICAL FIXTURE AND ACCESSORY LEGENDS.
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3. **PROVIDE CONCRETE FLOOR PATCH AND FLOOR LEVELING AT EXISTING CONCRETE FLOORS FOR NEW FINISHES.**
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SYMBOLS LEGEND

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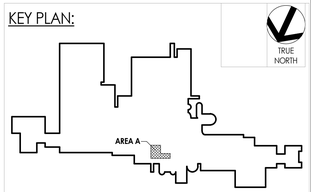
	DENOTES FINISH FLOOR GRADE ELEVATION	1 A4.1	DETAIL FOR REFERENCE MARK
	NON-COMBUSTIBLE TEMPORARY BARRIER		

FLOOR PLAN KEYED NOTES

- F1 INFILL WALL TO ALIGN WITH EXISTING PARTITION WALL.
- F2 AT EXISTING PERIMETER WALLS OF THE CATH LAB WHERE EXISTING GWB WAS REMOVED, INSTALL NEW LEAD LINED GWB. REFER TO PARTITION DETAILS AND SHIELDING REPORT.
- F3 PAINT WALLS WHERE INDICATED.
- F4 NEW MILLWORK TO BE INSTALLED. RE: INTERIORS FOR FINISHES.
- F5 NEW FLOORING TO BE INSTALLED: PREP AND LEVEL SUBSTRATE AS REQUIRED.
- F6 EXISTING HANDRAIL RELOCATED ON NEW PARTITION.
- F7 PHILIPS AD7 TABLE FLOOR PLATE. CONTRACTOR TO SCHEDULE PRE-INSTALLATION MEETING WITH PHILIPS HEALTHCARE. PHILIPS PLATE/ TEMPLATE TO BE RECIEVED ON SITE PRIOR TO PHILIPS EQUIPMENT INSTALLATION.
- F8 NEW SCRUB SINK TO BE INSTALLED BY PLUMBING CONTRACTOR. RE: TO PLUMBING DWGS.
- F9 ISOLATED POWER PANEL. REFER TO ELECTRICAL DRAWINGS.
- F10 CARD READER FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO ELEC. DWGS.
- F11 MAINTAIN EXISTING FINISHES: PATCH/REPAIR AS NEEDED AFTER CONSTRUCTION.
- F13 LEVEL OF FLOOR +/- 1/8" WITHIN DASHED AREA. UNISTRUT HEIGHT SHALL BE SET AT 9'-6 1/2" ABOVE HIGH POINT WITHIN THIS AREA- REFER TO PHILIPS DRAWINGS.
- F14 ALIGN NEW WALL PARTITION WITH EXISTING WALL.
- F15 CUSTOM FLOOR MOUNTED PEDESTAL BY E.C.
- F16 PATCH EXISTING SPRAY-ON-FIREPROOFING DISTURBED BY WORK UNDER THIS CONTRACT.
- F17 PATCH/ PAINT EXISTING WALLS THAT RECIEVE NEW POWER & DATA OUTLETS, PANELS AND WALL PROTECTION
- F18 SEAL ALL NEW AND EXISTING PENETRATIONS IN THE WALL AND FLOORS SURROUNDING CATH LAB GC-119. SEAL THE TOPS AND BOTTOMS OF ALL NEW AND EXISTING WALLS ENCLOSING CATH LAB GC-119.
- F19 PLUMBING CONTRACTOR TO FURNISH & INSTALL PREFABRICATED WHITEHALL MANUFACTURING CARE-WARE BEDSIDE PATIENT CARE UNIT MODEL #4049. CABINET COLOR SHALL BE OCP-07 SANSHADE BY MANUFACTURER. COUNTERTOP SHALL BE CORTERRA OCC19 COTTON TAIL BY MANUFACTURER. REFER TO PLUMBING DRAWINGS.
- F20 NEW MILLWORK AT PATIENT HEADWALL. REFER TO INTERIOR ELEVATIONS.
- F21 EXTEND NEW PARTITION WALL TO UNDERSIDE OF EXISTING GWB BULKHEAD.

KEY PLAN:



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SHEET INFORMATION

Issued	Scale
11/14/2025	As indicated

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By	Checked By
Author	Checker

Drawing Title
ENLARGED GROUND FLOOR NEW WORK PLAN - AREA A

Drawing Number
A200A

11/12/2025 11:11:54 AM PROJECT FILES ON ACC

LANDAUER®

October 29, 2025

Tim Parnell, Director of Plant Engineering
UNC Health Wayne
2700 Wayne Memorial Drive
Goldsboro, NC 27534
Telephone: 919-874-4363
Email: tim.parnell@unchealth.unc.edu

RE: DIAGNOSTIC X-RAY ROOM SHIELDING DESIGN REPORT

Dear Parnell,

Enclosed please find the shielding design report for the Philips Azurion 7 C20 x-ray installation at the address shown above.

- **Please review the report carefully to ensure all submitted information was correctly interpreted and to notify us of any revisions that need to be addressed.**
- We have filed a copy of the report with the North Carolina Department of Health and Human Services, Radiation Protection Section, on your behalf and you should receive correspondence from that agency shortly
- Landauer's recommendations are based upon the state regulations: *North Carolina Administrative Code, Title 10A, Chapter 15*
- The state regulations are available for review on the following website address: www.ncradiation.net
- Retain a copy of the report to document the calculated shielding required to meet dose limits prescribed in 10A NCAC 15 .1604 & .1611.
- **10A NCAC 15 .1603 requires facilities to develop, document, and implement a Radiation Protection Program.**

If you would like assistance with **post-installation radiation survey requirements** and/or with developing a **site-specific Radiation Protection Program**, please request a quote by contacting our team of Shield Design Coordinators at (800) 525-2831 or by emailing them at shieldingdesign@landauermp.com. They are also available to answer any other questions you may have with this Shield Design Report.

Thank you for choosing Landauer Medical Physics as your radiation protection service provider.

Sincerely,

Michelle Hernandez

Michelle Hernandez, MS
Health Physicist
LANDAUER Medical Physics

"LANDAUER is here to help you as your resource for radiation safety services!!"

PLAN REVIEW SHIELDING REPORT

Shielding Recommendations: Philips Azurion 7 C20

Wall Section	Barrier Type	Protected Area	Type	LMP Recommended Shielding (See Note 1)
A-B	Door	Control/Operator	SC	1/32" Lead Door Closed During Exposure
B-C	Wall / Window	Control/Operator	SC	1/32" Lead & 1/32" Lead Equivalent Window
C-D	Wall	Post Procedure	SU	1/32" Lead
D-E	Wall	Corridor	SU	1/32" Lead
E-F	Door	Corridor	SU	1/32" Lead Door Closed During Exposure
F-G	Wall	Corridor	SU	1/32" Lead
G-H	Wall	Corridor	SU	1/32" Lead
H-A	Wall	Restroom	SU	1/32" Lead
Ceiling	Ceiling	Office	SU	Existing 4" Concrete is Adequate
Floor	Floor	Crawl Space	SU	Existing 4" Concrete is Adequate

P = primary barrier; S = secondary barrier; C = controlled area; U = uncontrolled area

Shielding Parameters

Imaging Type	N patients/week	Workload* mA-minutes per week	kVp
Fluoroscopy	18	630	80

Additional Variables & Calculated Transmission Factor

Wall Section	$d_{Distance}$ (m)	$P_{Design\ Goal}$ (mR/week)	Occupancy Factor T	K_{sec} (0) (mR/week)	* Transmission Factor $B(x)_{barrier}$
A-B	5.99	10	1.000	47.70	0.20965
B-C	4.93	10	1.000	70.45	0.14195
C-D	5.47	2	0.500	57.16	0.06998
D-E	6.98	2	0.200	35.06	0.28526
E-F	6.08	2	0.125	46.23	0.34612
F-G	5.40	2	0.200	58.72	0.17029
G-H	5.00	2	0.200	68.32	0.14638
H-A	3.19	2	0.200	168.41	0.05938
Ceiling	3.93	2	1.000	110.77	0.01806

Design dose limits: Uncontrolled - 2 mrem/week (100/year) Controlled - 10 mrem/week (500/year)

* NCRP 147 Transmission Factor, B(x):

$$B_{sec}(X) = (P/T) * d^2_{sec} / (K^1_{sec} * N) = (P/T) / K_{sec}(0)$$

Definition of Terms

N_{weekly} - number of patient scans for the imaging mode per week

K^1_{sec} – unattenuated air kerma measured at 1 meter from source per imaging mode scan

K_{sec} (0) – total weekly unattenuated air kerma at point of interest from source for all patient scans

$D_{barrier}$ – shortest distance patients/week

T – Occupancy factor (hours per week a person spends in the protected area)

P_{week} – Design Goal or exposure limit per week

$B(x)_{barrier}$ – radiation transmission through a given barrier material (x)

Table Notes and Additional Information

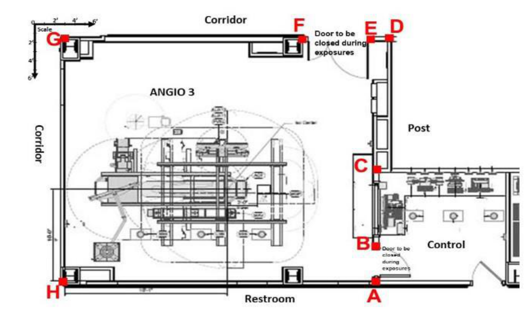
- **Note 1** - Areas beyond the immediate adjacent space to the barrier of interest have been considered when determining shielding recommendation.
- **IMPORTANT** - This plan review is specific for the information provided by the requestor. Any changes in equipment, room layout, occupancy of adjacent areas, changes in x-ray workload, upgrades to additional imaging modalities, changes in field size of imaging receptors, or any other condition that may contribute to an increased risk of radiation exposure will require re-evaluation of the shielding by a qualified physicist. If there are any doubts about what may constitute a change, please contact LANDAUER Medical Physics.
- The recommended shielding is the total thickness of specified material needed to reduce the radiation dose below regulatory limitations.
- Prior to construction of all new installations, or modifications of existing installations, or installation of equipment into existing facilities utilizing X-rays for diagnostic or therapeutic purposes, the floor plans and equipment arrangements shall be submitted to the agency for review and verification that national standards have been met.
- *Regulatory Note: Secondary barriers in the wall, floor and ceiling areas not having a primary barrier or where the primary barrier requirements are lower than the secondary barrier requirements shall be provided {NC Administrative Code 10A 15 .0604(b)(1)(B)}*
- *Regulatory Note: Regulatory Note: A shield of at least 0.25 mm lead equivalent, such as overlapping protective drapes or hinged or sliding panels, shall be provided to intercept scattered radiation which would otherwise reach the fluoroscopist and others near the machine. {NC Administrative Code 15A 11 .0605(9)(B)}*
- Doors to x-ray room must be closed during all exposures.
- Wall shielding should extend up from the finished floor to a height of at least 84". The vendor-stocked wall materials are commonly available for this height of shielding.
- All shielded barriers, including view windows and frames, doors and door frames, should be of the specified shielding equivalencies or greater and should have no voids.
- Any penetrations in the shielding should be designed to afford the same shielding equivalency as specified for that barrier. Penetrations in the shielding (electrical boxes, cables, fasteners, etc.) should be secured in place with mechanical fasteners or by welding. Metal screws do not require lead caps and the use of tapes, adhesives or plastic materials as a fastener is not recommended.
- Unless otherwise stated, the calculated dose at areas beyond the noted protected areas are less than the regulatory occupational or public dose limits. Any planned/existing construction or controlled access to the area further reduces occupational and public dose.

- Landauer Medical Physics performs transmission calculations based on the information provided by the requestor's Shield Design application and cannot be held responsible for errors in shielding requirements due to inaccurate information.
- These shielding specifications have been prepared in accordance with guidelines set forth in National Council on Radiation Protection and Measurements Report(s) No. 145 & No. 147, and North Carolina state regulations.
- The State agency reserves the right to impose additional requirements, as it deems appropriate or necessary to minimize danger to public health, safety or property.

Shielding Calculations Performed by:

Michelle Hernandez

Michelle Hernandez, MS
Health Physicist
LANDAUER Medical Physics



Shielding Recommendations: Philips Azurion 7 C20

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F-G	Wall	1/32" Lead
G-H	Wall	1/32" Lead
H-A	Wall	1/32" Lead
Ceiling	Ceiling	Existing 4" Concrete is Adequate
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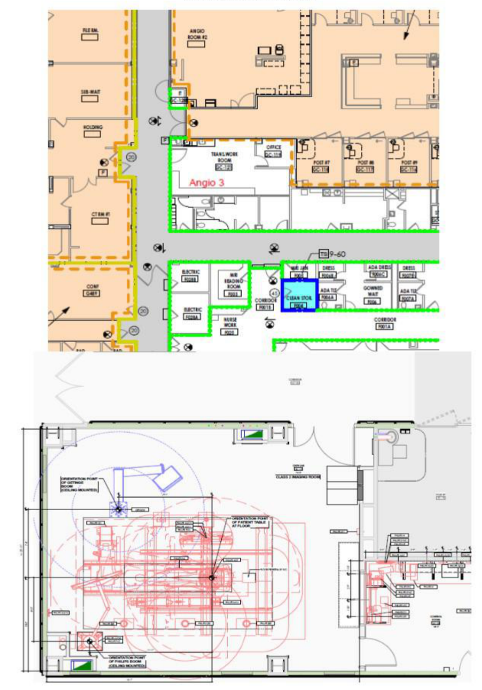
Client Submitted Drawings



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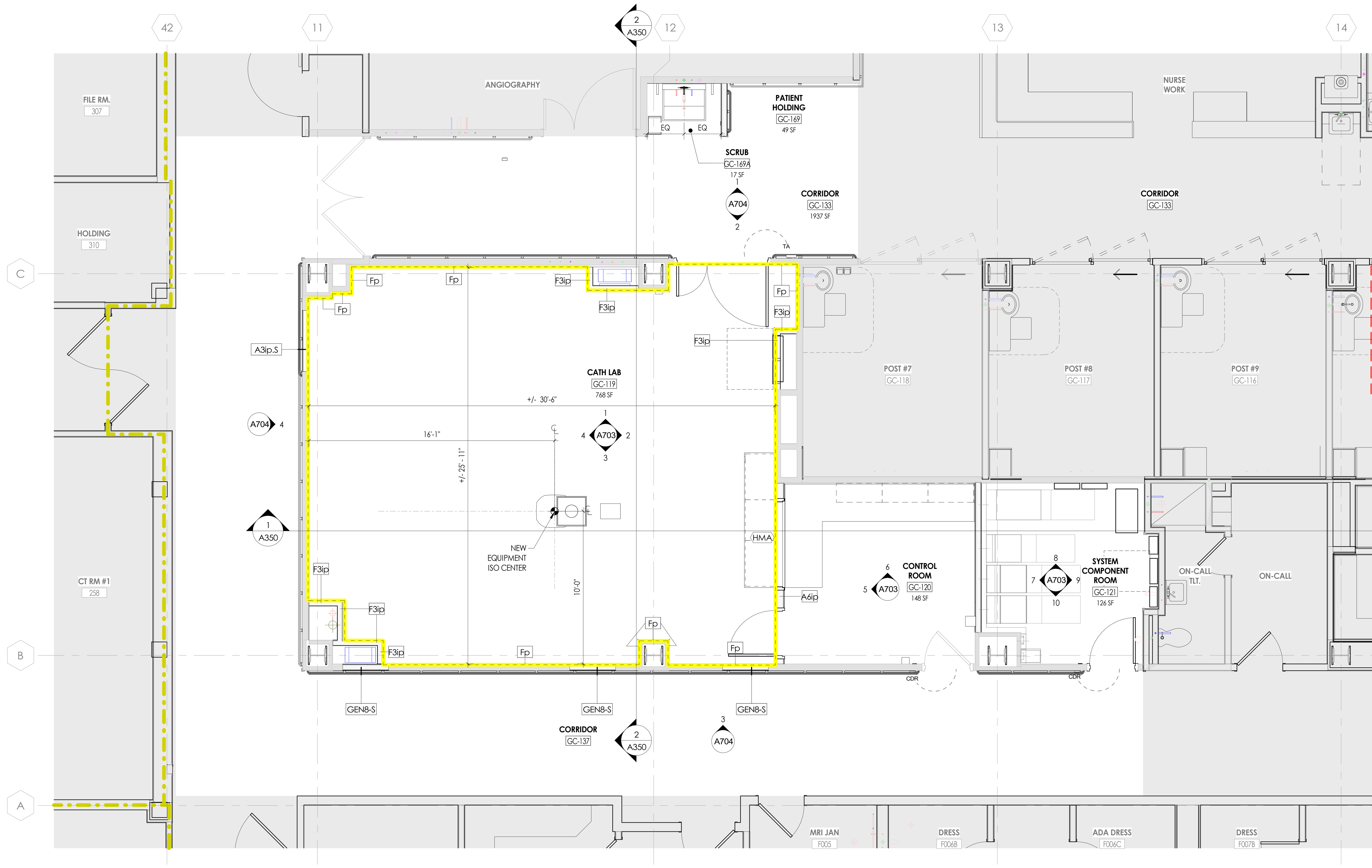


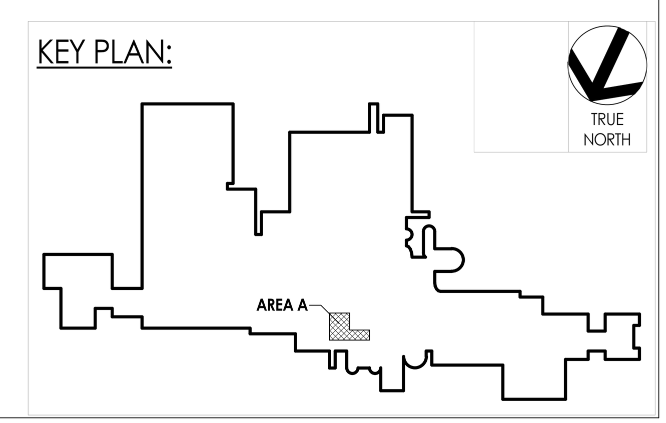
SHIELDING LEGEND

REFER TO A400 FOR LEAD LINED WALL TYPE DETAILS

1/32" LEAD LINED EQUIVALENT GYPSUM WALL BOARD (AT LEAST 7'-0" HIGH). DOOR FRAMES AND HARDWARE LOCATED WITHIN THESE WALLS SHALL HAVE 1/32" LEAD LINED EQUIVALENT SHIELDING. GLASS & FRAMES LOCATED WITHIN THESE WALLS SHALL BE SHIELDED TO 1/32" LEAD EQUIVALENCY.

1 A200A.1 **GROUND FLOOR NEW WORK PLAN - AREA A - SHIELDING PLAN**
1/4" = 1'-0"

KEY PLAN:



PROFESSIONAL STAMPS

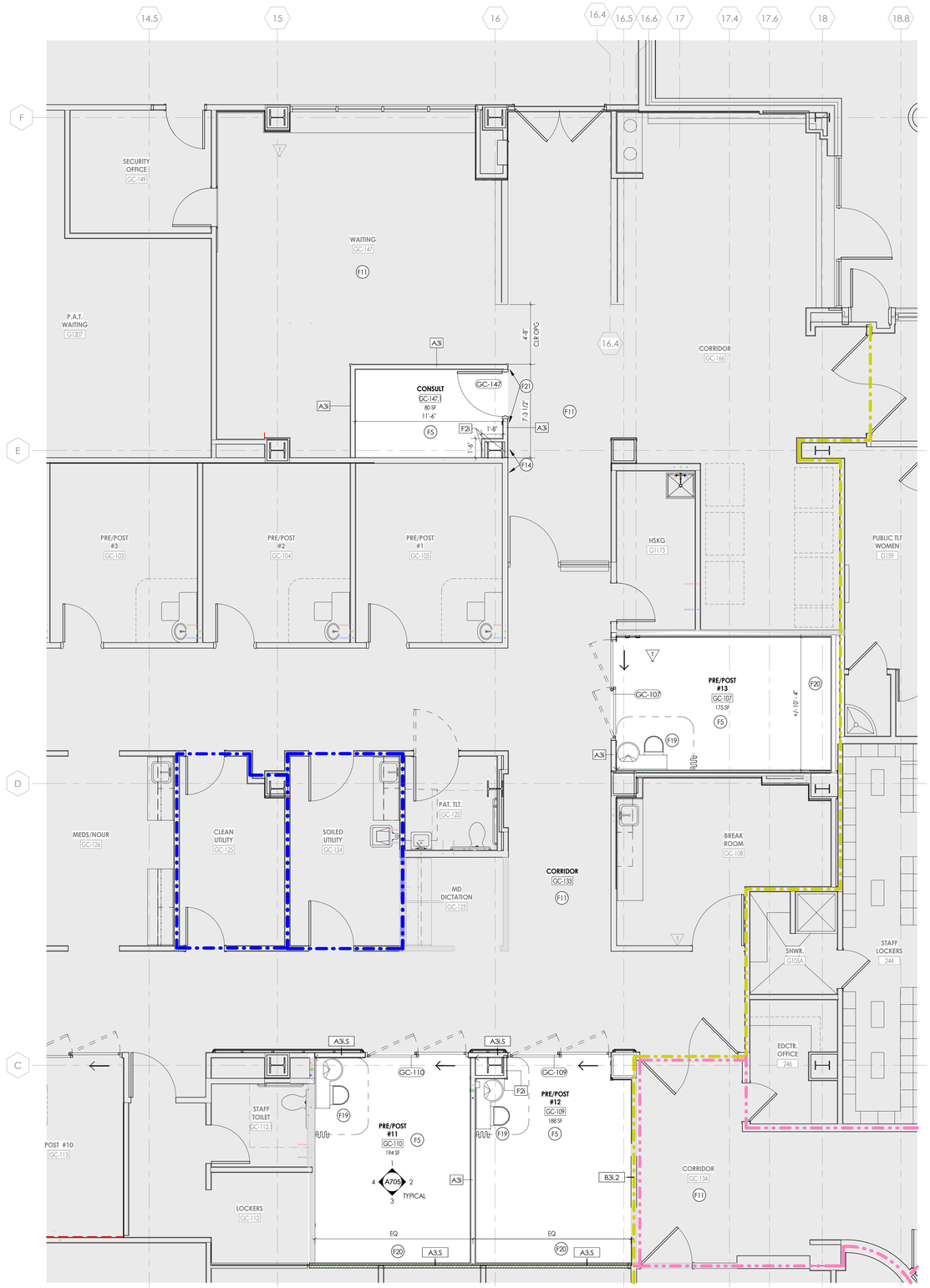
CPL Architects and Engineers, P.C. Registered Architectural Corporation 51301 North Carolina Charlotte, North Carolina

Kenneth Arnold Ryan Registered Architect 8924 North Carolina Charlotte, N.C. 11/14/2025

SHEET INFORMATION

Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: Author
Checked By: Checker
Drawing Title: ENLARGED GROUND FLOOR NEW WORK PLAN - AREA A
Drawing Number: A200A.1

11/12/2025 11:11:57 AM PROJECT FILES ON ACC



1 A200B **GROUND FLOOR NEW WORK PLAN - ENLARGED - AREA B**

1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. CONTRACTOR TO PROVIDE ADEQUATE WALL BLOCKING FOR ALL WALL-MOUNTED CABINETS, FIXTURES, ACCESSORIES, AND EQUIPMENT, INCLUDING ITEMS FURNISHED BY OTHERS. REFER TO TYPICAL FIXTURE AND ACCESSORY LEGENDS.
2. **PATCH AND FINISH ALL EXISTING WALLS TO REMAIN WITHIN THE PROJECT LIMIT AREA TO RECEIVE SPECIFIED FINISHES.**
3. **PROVIDE CONCRETE FLOOR PATCH AND FLOOR LEVELING AT EXISTING CONCRETE FLOORS FOR NEW FINISHES.**
4. **ALL EXISTING EXPANSION JOINT COVERS OR ASSEMBLIES ARE TO BE PROTECTED AND MAINTAINED DURING THE COURSE OF CONSTRUCTION UNLESS NOTED OTHERWISE.**
5. COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.
6. **REFER TO TYPICAL FIXTURE & ACCESSORIES LEGEND FOR FURNISH AND INSTALL SCOPE OF EQUIPMENT AND ACCESSORIES.**
7. EQUIPMENT SHOWN ON THESE DOCUMENTS IS FOR REFERENCE ONLY AND IS FOR COORDINATION OF REQUIRED MEP INFRASTRUCTURE. REFER TO OWNER FURNISHED EQUIPMENT DRAWINGS AND SUBMITTALS FOR FINAL COORDINATION AND INSTALLATION REQUIREMENTS INCLUDING BUT NOT LIMITED TO: DIMENSIONS, LOCATIONS & MEP CONNECTION LOCATIONS.
8. ALL FURNITURE IS PROVIDED BY OWNER, UNLESS NOTED OTHERWISE.
9. CONSULT WITH ARCHITECT TO FINALIZE LOCATIONS OF ANY EXPOSED CONTROL JOINTS PRIOR TO INSTALLATION.
10. ALL QUANTITIES / SQUARE FOOTAGES SHOWN ARE FOR REFERENCE ONLY AND ARE TO BE VERIFIED BY THE CONTRACTOR.

SYMBOLS LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

300-1	DOOR TAG	HM-A	GLAZING SYSTEM TAG
1 A	NEW COLUMN GRID LINE	1 A	EXISTING COLUMN GRID LINE
ROOM NAME H1234.2 150 SF	ROOM TAG	XXX	PARTITION TYPE TAG
### ## ##	CASEWORK TAG	11	ACCESSORY TAG
1	REVISION NO. 1	11	EQUIPMENT SYMBOL (NUMBER)
1 A300	WALL SECTION MARK	1 A300 / 1 A300	BUILDING SECTION MARK
2 A701	INTERIOR ELEVATION MARK	3 A301	EXTERIOR ELEVATION MARK
	DENOTES FINISH FLOOR GRADE ELEVATION	1 A4.1	DETAIL FOR REFERENCE MARK
	NON-COMBUSTIBLE TEMPORARY BARRIER		

FLOOR PLAN KEYED NOTES

- F1 INFILL WALL TO ALIGN WITH EXISTING PARTITION WALL.
- F2 AT EXISTING PERIMETER WALLS OF THE CATH LAB WHERE EXISTING GWB WAS REMOVED, INSTALL NEW LEAD LINED GWB. REFER TO PARTITION DETAILS AND SHIELDING REPORT.
- F3 PAINT WALLS WHERE INDICATED.
- F4 NEW MILLWORK TO BE INSTALLED. RE: INTERIORS FOR FINISHES.
- F5 NEW FLOORING TO BE INSTALLED: PREP AND LEVEL SUBSTRATE AS REQUIRED.
- F6 EXISTING HANDRAIL RELOCATED ON NEW PARTITION.
- F7 PHILIPS AD7 TABLE FLOOR PLATE. CONTRACTOR TO SCHEDULE PRE-INSTALLATION MEETING WITH PHILIPS HEALTHCARE. PHILIPS PLATE/ TEMPLATE TO BE RECIEVED ON SITE PRIOR TO PHILIPS EQUIPMENT INSTALLATION.
- F8 NEW SCRUB SINK TO BE INSTALLED BY PLUMBING CONTRACTOR. RE: TO PLUMBING DWGS.
- F9 ISOLATED POWER PANEL. REFER TO ELECTRICAL DRAWINGS.
- F10 CARD READER FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO ELEC. DWGS.
- F11 MAINTAIN EXISTING FINISHES: PATCH/REPAIR AS NEEDED AFTER CONSTRUCTION.
- F13 LEVEL OF FLOOR +/- 1/8" WITHIN DASHED AREA. UNISTRUT HEIGHT SHALL BE SET AT 9'-6 1/2" ABOVE HIGH POINT WITHIN THIS AREA- REFER TO PHILIPS DRAWINGS.
- F14 ALIGN NEW WALL PARTITION WITH EXISTING WALL.
- F15 CUSTOM FLOOR MOUNTED PEDESTAL BY E.C.
- F16 PATCH EXISTING SPRAY-ON-FIREPROOFING DISTURBED BY WORK UNDER THIS CONTRACT.
- F17 PATCH/ PAINT EXISTING WALLS THAT RECIEVE NEW POWER & DATA OUTLETS, PANELS AND/O WALL PROTECTION
- F18 SEAL ALL NEW AND EXISTING PENETRATIONS IN THE WALL AND FLOORS SURROUNDING CATH LAB GC-119. SEAL THE TOPS AND BOTTOMS OF ALL NEW AND EXISTING WALLS ENCLOSING CATH LAB GC-119.
- F19 PLUMBING CONTRACTOR TO FURNISH & INSTALL PREFABRICATED WHITEHALL MANUFACTURING CARE-WARE BEDSIDE PATIENT CARE UNIT MODEL #4049. CABINET COLOR SHALL BE OCP-07 SANSHADE BY MANUFACTURER. COUNTERTOP SHALL BE CORTERRA OCC19 COTTON TAIL BY MANUFACTURER. REFER TO PLUMBING DRAWINGS.
- F20 NEW MILLWORK AT PATIENT HEADWALL. REFER TO INTERIOR ELEVATIONS.
- F21 EXTEND NEW PARTITION WALL TO UNDERSIDE OF EXISTING GWB BULKHEAD.

KEY PLAN:

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. — REGISTERED ARCHITECTURE CORPORATION — 51301 — NORTH CAROLINA — Charlotte, North Carolina

KENNETH ARNOLD RUAN — REGISTERED ARCHITECT — 8924 — NORTH CAROLINA — CHARLOTTE, N.C. — 11/14/2025

SHEET INFORMATION

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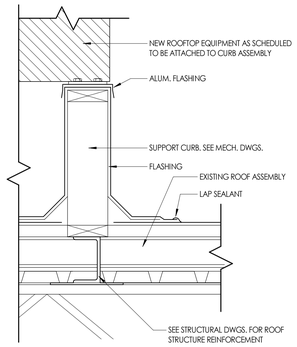
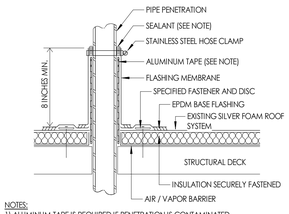
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: Author
Checked By: Checker
Drawing Title: ENLARGED GROUND FLOOR NEW WORK PLAN - AREA B
Drawing Number: A200B

11/12/2025 11:12:00 AM PROJECT FILES ON ACC

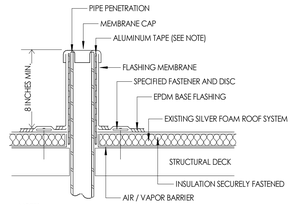


2 A203 **ROOFTOP EQUIPMENT SUPPORT DETAIL**
1 1/2" = 1'-0"



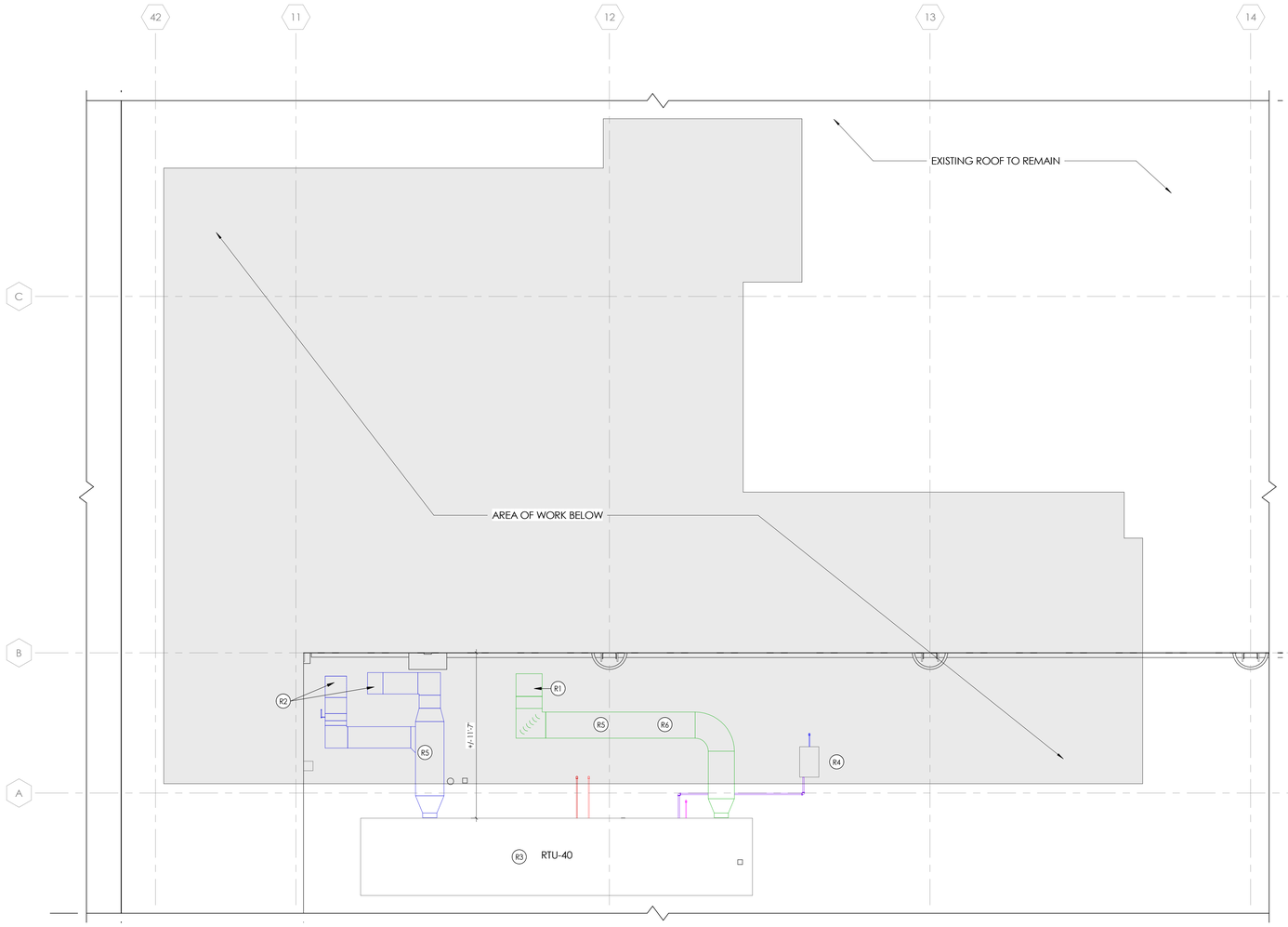
NOTES:
1) ALUMINUM TAPE IS REQUIRED IF PENETRATION IS CONTAMINATED.
2) SEALANT IS A MAINTENANCE ITEM. MAINTENANCE IS NOT COVERED UNDER THE WARRANTY.
3) VAPOR BARRIER SHALL BE SEALED AT EDGES.

3 A203 **PIPE PENETRATION FLASHING**
6" = 1'-0"



NOTES:
1) ALUMINUM TAPE IS REQUIRED IF EXISTING PENETRATION IS CONTAMINATED.
2) VAPOR BARRIER SHALL BE SEALED AT EDGES.

4 A203 **VENT STACK FLASHING**
6" = 1'-0"



1 A203 **ROOF PLAN - AREA OF WORK**
1/4" = 1'-0"

ROOF PLAN GENERAL NOTES

1. REFER TO ALL DRAWINGS IN THE SET FOR LOCATIONS OF ALL ROOF PENETRATIONS. PROVIDE FRAMING AS REQUIRED.
2. PAINT ALL ROOF FASTENERS EXPOSED TO VIEW AT UNDERSIDE OF DECK TO MATCH.
3. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE BROOM CLEAN AT THE END OF EACH DAY.
4. ALL WOOD BLOCKING USED SHALL BE PRESSURE TREATED.
5. AT ALL ROOF DRAINS, CUT HOLE IN DECKING AND PROVIDE STRUCTURAL FRAME AS REQUIRED.
6. THE ROOF ELEVATIONS SHOWN ON THE PLAN ARE SHOWN TO ESTABLISH RELATIVE HEIGHTS OF THE INDIVIDUAL ROOFS.
7. NO WEEP HOLES SHALL BE COVERED OR PLUGGED AS A RESULT OF THE ROOFING WORK, UNLESS OTHERWISE DIRECTED.
8. MAINTAIN WATER TIGHTNESS AND PROVIDE PROTECTION AT ANY/ALL OPENINGS IN THE ROOF LEFT AT THE END OF EACH DAY.
9. PROVIDE CRICKETS FOR WATER DIVERSION AT ALL CURBS, RAILS, ETC. WHICH RUN PERPENDICULAR TO THE SLOPE OF THE INSULATION/SLOPED STRUCTURE.
10. ALL ROOF TOP UNITS SHALL BE MOUNTED ON 16" MIN. INSULATED METAL CURBS. PROVIDE TAPERED INSULATION CRICKETS AS REQUIRED TO SHED WATER. WOOD BLOCKING SHALL BE PROVIDED SO CURBS ARE 8" ABOVE FINISHED ROOF SURFACE.
11. PROVIDE WOOD BLOCKING AS REQUIRED TO MEET THE HIGH POINT (HP)OF THE INSULATION AT ROOF EDGES. THE ROOF EDGE HEIGHT SHALL NOT VARY UNLESS NOTED OTHERWISE. ALL WOOD BLOCKING USED SHALL BE PRESERVATIVE -TREATED.
12. ALL SADDLES AND CRICKETS ARE TO HAVE A MIN. 1/4" PER FOOT SLOPE AS INDICATED. PROVIDE CRICKETS FOR DIVERSION OF WATER AT ALL CURBS, RAILS, ETC. WHICH RUN PERPENDICULAR TO SLOPE OF INSULATION.
13. AT ALL MECHANICAL EQUIPMENT, PROVIDE SLOPED INSULATION AS REQUIRED TO DRAIN ROOF WATER AWAY FROM HIGH SIDE OF CURBS.
14. UPON COMPLETION OF WORK, THE PLUMBING CONTRACTOR SHALL SNAKE OUT ALL ROOF DRAINS AND VERIFY ALL ARE CLEAR AND LEFT IN A FREE FLOWING CONDITION.
15. ALL CURBS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. ASSOCIATED ROOF/FLASHING BY GENERAL CONTRACTOR.
16. EXISTING ROOF SYSTEMS VARY. ROOFING CONTRACTOR TO FIELD VERIFY TYPE OF EXISTING ROOF AND COORDINATE PATCHING OF ROOFS WITH OWNER AND ROOFING MANUFACTURER.
17. UPON PATCHING OF EXISTING SYSTEM PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE MANUFACTURER'S WARRANTY UPON COMPLETION.
18. CONTRACTORS SHALL CHECK AND VERIFY CONDITIONS AND DIMENSIONS AT THE SITE PRIOR TO FABRICATION OF SHOW DWGS, ETC.
19. CONTRACTORS SHALL COORDINATE LOCATION OF ALL ROOFTOP EQUIPMENT, COMPONENTS ETC. WITH RESPECTIVE CONTRACTORS FOR FINAL LAYOUT, STEEL FRAME OPENINGS, ETC. REFER TO DIMENSIONS AND SIZES.

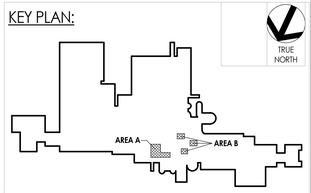
ROOF PLAN LEGEND

RD	ROOF DRAIN W/ SECONDARY
L.P. XX"	SLOPED INSULATION LOW POINT (MIN. 5 1/2")
H.P. XX"	SLOPED INSULATION HIGH POINT (MIN. 5 1/2")
	SLOPED INSULATION ROOF CRICKET. PROVIDE 1/4" / 1'-0" POSITIVE DRAINAGE
VTR	VENT THRU ROOF. PROVIDE FLASHING PER ROOF MANUFACTURER'S DETAILS
	DUCT SUPPORT. PROVIDE FLASHING PER ROOF MANUFACTURER'S DETAILS
	MECH. CURB (W/ CRICKET). PROVIDE FLASHING PER ROOF MANUFACTURER'S DETAILS
	ROOF HATCH (SINGLE LEAF)
1/4" / 1'-0"	ROOF SLOPE
	ROOF PAVER/MEMBRANE WALKWAY SYSTEM TYP.
	EXISTING THRU WALL SCUPPER W/ DOWNSPOUT.
	BALLASTED FALL PROTECTION RAILING SYSTEM
EJ	EXPANSION JOINT.

ROOF PLAN KEYED NOTES

R1 SUPPLY DUCTWORK ROOF PENETRATION. REFER TO MECHANICAL AND STRUCTURAL DWGS. FOR DUCT THRU ROOF PENETRATION DETAILS AND ROOF OPENING FRAMING DETAILS.
R2 RETURN DUCTWORK ROOF PENETRATION. REFER TO MECHANICAL AND STRUCTURAL DWGS. FOR DUCT THRU ROOF PENETRATION DETAILS AND ROOF OPENING FRAMING DETAILS.
R3 NEW AHU MOUNTED ON CURB. REFER TO MEP AND STRUCTURAL DRAWINGS.
R4 NEW STEAM GENERATOR MOUNTED ON ROOF RAILS. REFER TO MEP AND STRUCTURAL DRAWINGS.
R5 REFER TO MECHANICAL DWGS. FOR DUCT SUPPORT DETAILS.
R6 CROSS-OVER LADDER. REFER TO MECHANICAL DRAWINGS.

KEY PLAN:



CPL | Architecture Engineering Planning
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SHEET INFORMATION

Issued: 11/14/2025
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Drawn By: CPL
Checked By: CPL
Drawing Title: ROOF PLAN - OVERALL
Drawing Number: A203

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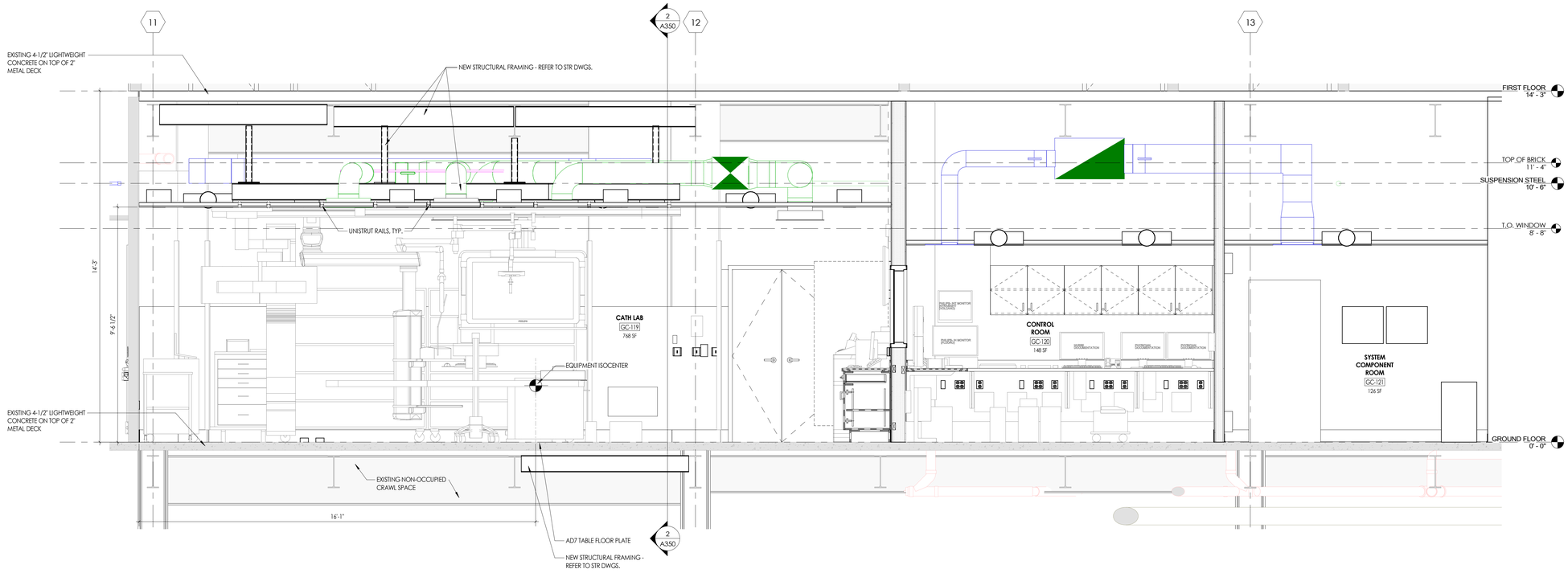
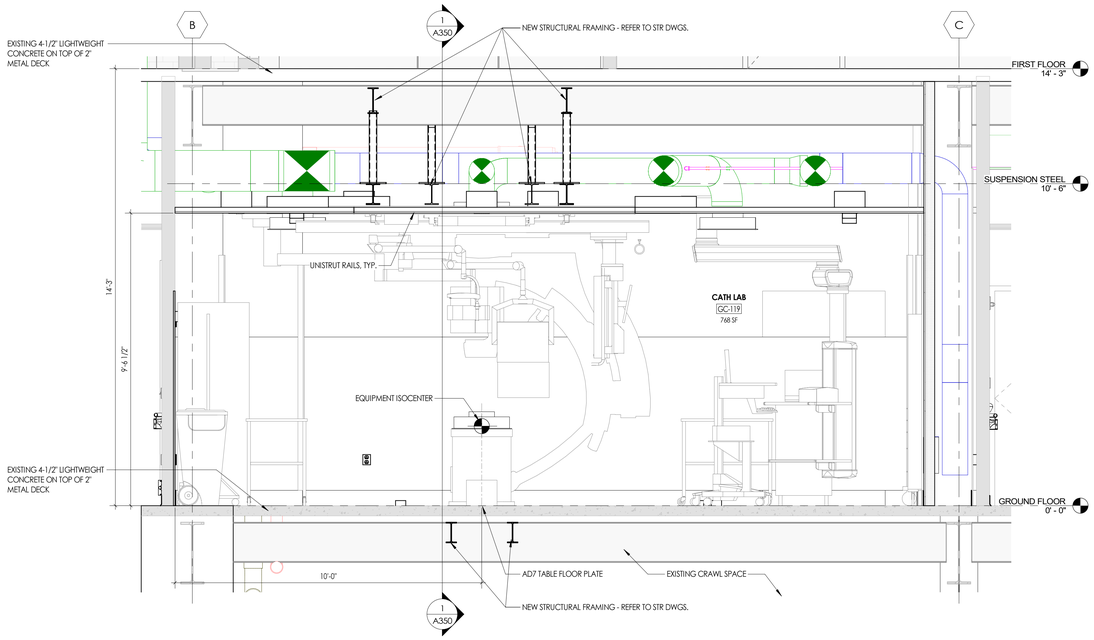


1 A350 **SECTION A**
1/2" = 1'-0"



2 A350 **SECTION B**
1/2" = 1'-0"

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KENNETH ARNOLD RYAN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C.
11/14/2025

SHEET INFORMATION

Issued
11/14/2025

Scale
1/2" = 1'-0"

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
CPL

Checked By
CPL

Drawing Title
BUILDING SECTIONS

Drawing Number
-
A350

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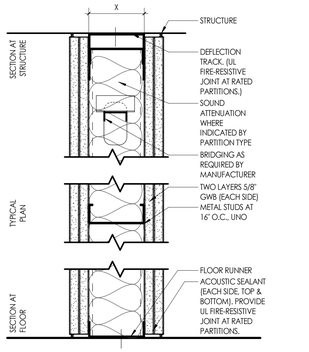

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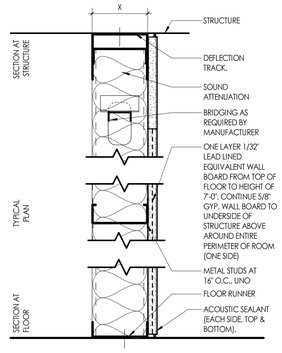
B3L2	3-5/8"	2HR	U419	YES	STC 52 - NGC 2018113



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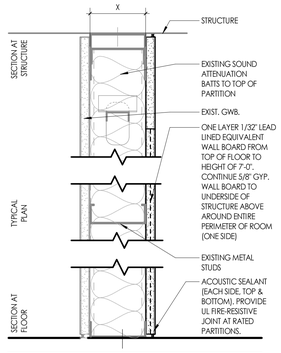

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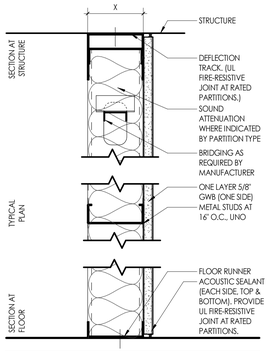
Fp	5/8"	--	--	--	-- - --



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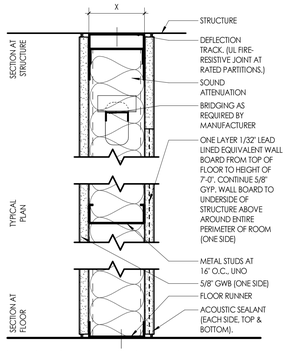

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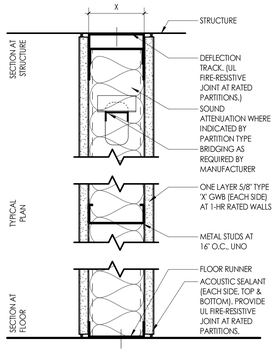
A3p.S	3-5/8"	SMOKE		YES	STC 46 - NGC 2018106
A6ip	6"	--	--	YES	-- - --



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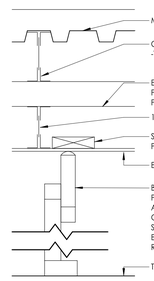
A3L5	3-5/8"	SMOKE		YES	STC 46 - NGC 2018106
A3L1	3-5/8"	1HR	U419	YES	STC 46 - NGC 2018106



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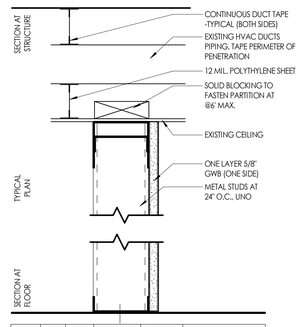
NOTE: TEMPORARY INFECTION CONTROL PARTITION PREMANUFACTURED WALL PANELS					



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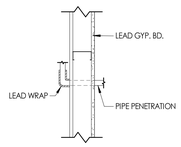
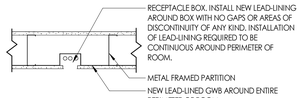
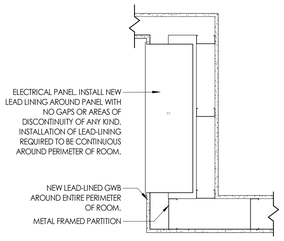
NOTE: TEMPORARY INFECTION CONTROL PARTITION					



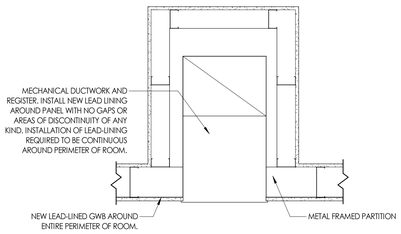
TYP. @ PIPES



TYP. @ RECEPTACLE BOXES

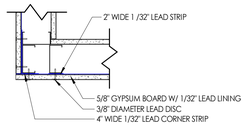


TYP. @ ELECTRICAL PANEL

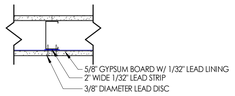


TYP. @ MECHANICAL DUCTWORK

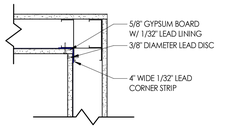
1 A400 **TYPICAL LEAD-LINING DETAILS AT RECEPTACLES, PANELS AND DUCTWORK**
1" = 1'-0"



LEAD LINED EXTERIOR CORNER



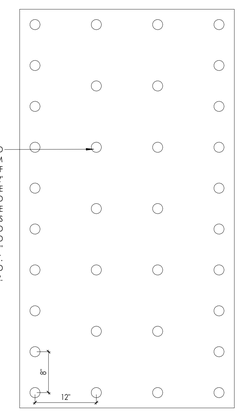
LEAD LINED GWB JOINT



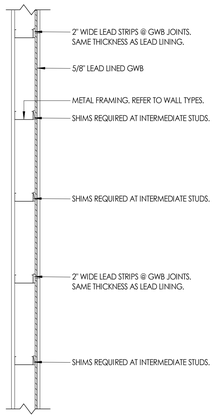
LEAD LINED INTERIOR CORNER

3 A400 **TYPICAL LEAD-LINING WALL DETAILS**
1 1/2" = 1'-0"

THE LEAD LINED GYPSUM BOARD SHOULD BE FASTENED AT A MINIMUM OF 8" ON CENTER AT THE EDGES OF EACH SHEET, AND AT A MIN. OF 12" ON CENTER AT THE INTERMEDIATE STUDS. A 2" WIDE STRIP OF SHEET LEAD OF THE SAME THICKNESS SHOULD BE APPLIED TO EACH OF THE JOINT STUDS PRIOR TO INSTALLING THE LEAD LINED GWB. THESE STRIPS OF SHEET LEAD WILL PROVIDE THE NECESSARY 1" OVERLAP WITH THE ADJOINING SHEET. FASTENERS DO NOT REQUIRE A LEAD DISC COVER.



TYP. FASTENING PATTERN FOR LEAD LINED GWB



PLAN DETAIL FOR LEAD LINED GWB

2 A400 **TYPICAL LEAD-LINING ELEVATION DETAIL**
1" = 1'-0"

PARTITION GENERAL NOTES

NOTE: ALL WALL TYPES MAY NOT BE USED ON THIS PROJECT.

PARTITION FRAMING NOTES:

1. **ANY PARTITION NOT DESIGNATED WITH A PARTITION TAG SHALL BE TYPE "A3L"**
2. ALL PARTITIONS SHALL EXTEND TO STRUCTURE ABOVE, UNO. PROVIDE DIAGONAL BRACING AS REQUIRED.
3. REFER TO STRUCTURAL DRAWINGS FOR MASONRY WALL REINFORCEMENT, GROUTING, AND STRUCTURAL ATTACHMENT.
4. **WHERE 24" O.C. SPACING IS UTILIZED FOR ANY REASON, INCREASE STEEL GAUGE AS APPROPRIATE TO MAINTAIN INTEGRITY.**
5. REFER TO **SPECIFICATIONS** FOR METAL STUD GAUGE REQUIREMENTS. ASSUME A MIN STUD GAUGE OF 18 GA. INCREASE WHERE REQUIRED.
6. REFER TO **TYPICAL FIXTURE AND ACESSORIES** SHEET FOR BLOCKING REQUIREMENTS.
7. "LINE OF STRUCTURE" INDICATED IN TYPICAL DETAILS IS DIAGRAMMATIC ONLY.
8. **REFER TO HEAD OF WALL DETAILS FOR CONNECTION TO STRUCTURE AND FIRE-RATED REQUIREMENTS OF ALL PARTITIONS.**

PARTITION INSULATION & GWB NOTES:

1. FOR RATED & SOUND ATTENUATED PARTITIONS:
   A. SCRIBE GWB AROUND UNDERSIDE OF DECKING AND AROUND OF STRUCTURE.
   B. FRICTION FIT SOUND ATTENUATING INSULATION BETWEEN STUDS TO FILL FULL DEPTH OF CAVITY.
      NON-RATED PARTITIONS, USE: BATT INSULATION (FIBERGLASS)
      RATED PARTITIONS, USE: ROCK WOOL
1. GWB MAY TERMINATE AT 6" MIN ABOVE CEILING FOR ALL PARTITIONS THAT ARE NEITHER RATED NOR SOUND ATTENUATED.
2. ***DESIGNER NOTE:*** STC RATINGS / TEST NUMBERS INDICATED ASSUME 5/8" TYPE 'X' GWB. ADJUST ACCORDINGLY.
3. PARTITIONS ARE ASSUMED TO HAVE A BASELINE OF 5/8" TYPE 'X' GWB. PROVIDE ALTERNATIVE TYPES OF WALL BOARD BASED ON THE SPECIFIC LOCATION AND/OR FINISHES TO BE APPLIED:
   A. PROVIDE 5/8" BACKER BOARD IN LIEU OF ONE LAYER GWB AT ALL WALL FACES RECEIVING TILE.
   B. PROVIDE MOISTURE RESISTANT GWB AT ALL TOILET ROOMS, JANITOR'S CLOSETS AND OTHER WET LOCATIONS WHERE TILE BACKER BOARD ARE NOT INSTALLED, INCLUDING BEHIND AND 2'-0" IN EACH DIRECTION FROM THE CENTERLINES OF ALL PLUMBING FIXTURES, UNO.
   C. PROVIDE 5/8" IMPACT RESISTANT BOARD **WHERE INDICATED.**
   D. PROVIDE 5/8" ABUSE BOARD **WHERE INDICATED.**
   E. PROVIDE 5/8" ACOUSTIC GWB **WHERE INDICATED.**
4. **PARTITION TYPES WITH ONE SIDE OF DOUBLE DRYWALL TO BE PLACED SO THAT THE DOUBLE SIDE IS ON CORRIDOR AND/OR HIGH TRAFFIC SIDE OF WALL.**
5. PROVIDE CONTROL JOINT WHERE NEW PARTITIONS ABUT EXISTING CONSTRUCTION.
6. PROVIDE CONTROL JOINTS A MAXIMUM OF 30'-0" APART, UNLESS NOTED OTHERWISE. PER ASTM C 840-17A. LOCATE ABOVE DOOR FRAMES WHERE POSSIBLE.
7. REFER TO SPECIFICATIONS FOR FINISH LEVEL INFORMATION.

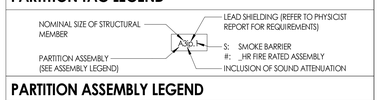
PARTITION LIFE SAFETY NOTES:

1. REFER TO CODE/LIFE SAFETY DRAWINGS FOR RATED PARTITIONS AND UL ASSEMBLIES. ALL RATED PARTITIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH UL DESIGN LISTINGS.
2. REFER TO UL HEAD-OF-WALL AND WALL-TO-WALL CONNECTIONS AND UL APPROVED PENETRATIONS FOR RATED WALLS. FOR ALL PARTITIONS INDICATED AS PART OF A SMOKE COMPARTMENT, SEAL TIGHT ALL GAPS, PENETRATIONS, AND OPENINGS WITHIN PARTITION TO PREVENT PASSAGE OF SMOKE.
3. FIRESTOP/ SMOKE STOP ALL REQUIRED WALL PARTITIONS, SLABS, AND PENETRATIONS THROUGH NEW AND EXISTING WALLS WITHIN THE PROJECT LIMITS IN COORDINATION WITH CODE PLAN. OR WHERE COORDINATED SYSTEMS CONNECTION POINTS ARE LOCATED OUTSIDE THE PROJECT LIMIT AREA. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS AND **SPECIFICATIONS.**
4. WHERE RATED PARTITIONS ARE PERPENDICULAR TO METAL DECK RIBS, PACK ALL VOIDS WITH FIRESAFING MATERIAL.
5. NOTIFY OWNER AND ARCHITECT OF ANY EXISTING NON-COMPLIANT PENETRATIONS THROUGH RATED PARTITIONS AS SHOWN ON THE LIFE SAFETY PLANS.
6. CONSTRUCT ALL WALLS AND PARTITIONS IN ORDER OF RATING PRIORITY, BEGINNING WITH THE HIGHEST RATED WALLS FIRST. REFER TO FRAMING DETAILS.
7. EACH FIRE AND SMOKE RESISTANCE RATED PARTITION SHOWN ON THE PLANS SHALL BE IDENTIFIED AS SUCH WITH A LABEL AS REQUIRED BY THE ADOPATED STATE CODE.
8. ***FOR HEALTHCARE PROJECTS:*** **PROVIDE ACOUSTICAL/ SMOKE STOP SEALANT AT ALL CORRIDOR HEAD WALL AND THRU WALL PENETRATIONS AT NEW AND/OR EXISTING CORRIDOR PARTITION INSTALLATIONS.**
9. **AT TEMPORARY PARTITIONS, TAPE JOINTS BETWEEN WALL AND FLOOR, AND WALL AND CEILING. PROVIDE FIRE RETARDANT POLYETHYLENE FROM TOP OF CEILING PANELS TO UNDERSIDE OF DECK. TAPE JOINT BETWEEN POLYETHYLENE AND GWB. SEAL PENETRATIONS IN POLYETHYLENE AT DUCTS, PIPES, CONDUITS, AND CABLING. IF CEILING DOES NOT EXIST, EXTEND GWB TO DECK.**
10. **REFER TO LIFE SAFETY PLAN FOR LOCATION & EXTENTS OF PARTITIONS THAT REQUIRE ELECTROMAGNETIC OR RADIATION SHIELDING. COORDINATE WITH PHYSICIST'S REPORT.**

PARTITION FINISH NOTES:

1. REFER TO INTERIOR DRAWINGS FOR LOCATIONS OF WALL TILE AND OTHER SPECIALTY/APPLIED WALL FINISHES.
2. WHERE LARGE FORMAT WALL TILE IS INDICATED ON FINISH DRAWINGS (15" OR LONGER IN ANY DIRECTION), PROVIDE ENHANCED WALL FINISH TOLERANCE. REFER TO **SPECIFICATIONS.**
3. ***DESIGNER NOTE:*** **CHECK FOR ANY AREAS WHERE APPLIED FINISHES WOULD NECESSITATE THE NEED TO INCREASE DOOR FRAME THROAT DEPTH. ADJUST ACCORDINGLY.**

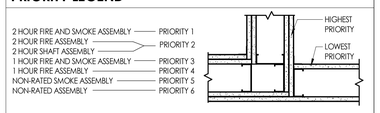
PARTITION TAG LEGEND



PARTITION ASSEMBLY LEGEND

A	STEEL STUDS 1 LAYER GWB, EACH SIDE	H	SHAFT WALL SHAFT LINER, ONE SIDE	N	WOOD STUDS 1 LAYER GWB, EACH SIDE
B	STEEL STUDS 2 LAYER GWB, EACH SIDE	I	SHAFT WALL SHAFT LINER, ONE SIDE 1 LAYER GWB, ONE SIDE	O	WOOD STUDS 2 LAYER GWB, EACH SIDE
C	STEEL STUDS 3 LAYER GWB, EACH SIDE	J	SHAFT WALL SHAFT LINER, ONE SIDE 2 LAYER GWB, ONE SIDE	P	WOOD STUDS 1 LAYER GWB, ONE SIDE
D	STEEL STUDS 2 LAYER GWB, ONE SIDE 1 LAYER GWB, ONE SIDE	K	SHAFT WALL SHAFT LINER, ONE SIDE 3 LAYER GWB, ONE SIDE	T	TEMPORARY BARRIER
E	STEEL FURRING 1 LAYER GWB, ONE SIDE	L	SHAFT WALL SHAFT LINER + 1 LAYER GWB, ONE SIDE	U	STEEL STUDS + FURRING 1 LAYER GWB, EACH SIDE
F	STEEL STUDS 1 LAYER GWB, ONE SIDE	M	CONCRETE MASONRY UNITS	V	STEEL STUDS + FURRING 1 LAYER GWB, ONE SIDE
G	STEEL STUDS 2 LAYER GWB, ONE SIDE			X	(RESERVED FOR) RADIATION SHIELDING
				Y	(RESERVED FOR) RF SHIELDING | MRI ENCLOSURE

PRIORITY LEGEND



LIGHT GAUGE DESIGN CRITERIA

TYPICAL PARTITIONS:
L/240 AT 5 LB/SQ FT (239 PA) LATERAL LOAD.
ELEVATOR SHAFT PARTITIONS:
L/240 AT 7.5 LB/SQ FT (359 PA) LATERAL LOAD.
PARTITIONS WITH TILE FACING:
L/360 AT 7.5 LB/SQ FT (359 PA) LATERAL LOAD.
PARTITIONS WITH INTERIOR STONE FACING CONCENTRATED LOADS:
PROVIDE DELEGATED ENGINEERING TO COMPLY WITH
L/720 AT 10 LB/SQ FT (479 PA) LATERAL LOAD.
PARTITIONS SUPPORTING LEAD LINED DOORS AND FRAMES:
PROVIDE DELEGATED ENGINEERING TO COMPLY WITH
L/480 AT 10 LB/SQ FT (479 PA) LATERAL LOAD.
PARTITIONS SUPPORTING ALL OTHER CONCENTRATED LOADS:
PROVIDE DELEGATED ENGINEERING TO COMPLY WITH
L/360 AT 10 LB/SQ FT (479 PA) LATERAL LOAD

LIGHT GAUGE GENERAL NOTES

1. CONDITIONS INDICATED SHOW DESIGN INTENT, ESPECIALLY IN REGARD TO ACCOMMODATION OF STRUCTURAL DEFLECTION AND CONTINUITY OF INTEGRITY OF SOUND, SMOKE AND FIRE WALLS.
2. DESIGN INTENT DETAILS ARE NOT INTENDED TO BE PROPRIETARY. CONTRACTOR MAY EMPLOY SIMILAR HEAD-OF-WALL DESIGNS AND COMPONENTS AS APPROPRIATE FOR CONDITIONS.
3. DESIGN INTENT DETAILS MAY NOT SHOW ALL CONDITIONS TO BE ENCOUNTERED ON A PROJECT. COMPLY WITH MANUFACTURER AND UL APPROVED METHODS FOR ATYPICAL CONDITIONS.
4. SECURE TOP OF INTERIOR PARTITIONS TO SUPERSTRUCTURE IN A WAY THAT PROVIDES LATERAL STABILITY (PERPENDICULAR TO AND IN-PLANE WITH WALL) WHILE ALLOWING FOR STATED MINIMUM VERTICAL DEFLECTION OF THE SUPERSTRUCTURE.
5. RIGIDLY SECURE SLOTTED TOP TRACK TO BUILDING SUPERSTRUCTURE IN AN APPROVED MANNER. EMPLOY Z-BARS, COLD-ROLLED CHANNELS OR SIMILAR SPACER TO ACCOMMODATE THICKNESS OF FIREPROOFING, WHERE INDICATED.
6. SLOTTED TOP TRACK, INDICATED ON THESE DETAILS, IS THE BASIS FOR DESIGN AND REFERS TO DEEP-LEG TRACKS WITH VERTICALLY SLOTTED HOLES. OPTIONAL MANUFACTURERS MAY PROVIDE SIMILAR, PROPRIETARY METHODS IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
7. SECURE VERTICAL STUDS TO SLOTTED TOP TRACK AT MID-HEIGHT OF VERTICAL SLOTS IN TRACK. COMPONENTS INTENDED TO SLIDE VERTICALLY AS SUPERSTRUCTURE DEFLECTS.
8. DO NOT SCREW GWB TO TOP TRACK OR SUPERSTRUCTURE. GWB SCREWS INTO THE STUDS MUST BE AT LEAST 1" BELOW THE BOTTOM OF THE TOP TRACK.
9. FIRESTOPPING AND ACOUSTICAL SEALANTS SHALL AUTOBOND. **PROVIDE EXPOSED CLEAN SEALANT (TO CONCEAL FIRESTOPPING) AT FOOD SERVICE, FDA INSPECTED PRODUCTION FACILITIES, VIVARIA, BIOLOGICAL CONTAINMENT AND CLEAN ROOM APPLICATIONS.**
10. WHERE A PARTITION IS STC DESIGNATED, FILL ALL WALLS WITH SOUND ATTENTUATION BATTS.

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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number: R25.18089.00
Client Name: **UNC HEALTH WAYNE**
Project Name: **CATH LAB RENOVATION**
Project Address: 2700 WAYNE MEMORIAL DRIVE GOLDSBORO, NC 27533
CON Number: P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
Date Description

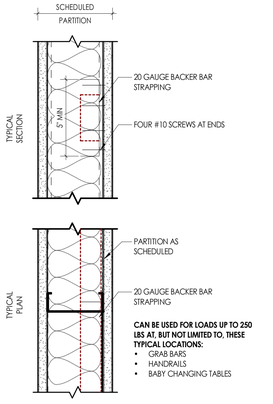
PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. — 51301 — Charlotte, North Carolina

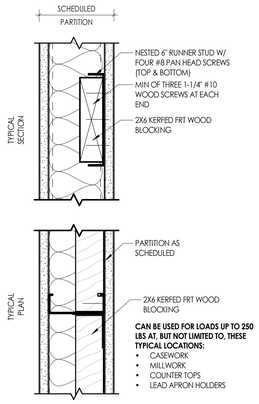
KENNETH ARNOLD RYAN — REGISTERED ARCHITECT — 8924 — NORTH CAROLINA — CHARLOTTE, N.C. — 11/14/2025

SHEET INFORMATION
Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: PARTITION TYPES & DETAILS
Drawing Number: A400

11/12/2025 11:12:05 AM PROJECT FILES ON ACC



1 A401 **BLOCKING - STEEL BACKING**
3" = 1'-0"



2 A401 **BLOCKING - NESTED METAL STUD**
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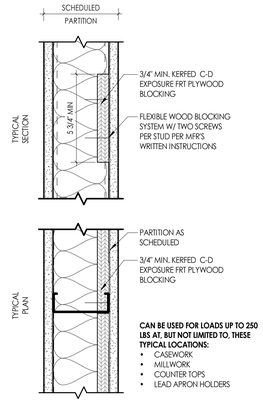

3 A401 **BLOCKING - FLEXIBLE WOOD**
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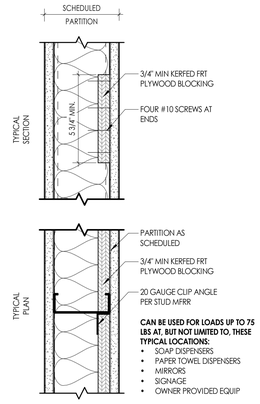

4 A401 **BLOCKING - PLYWOOD**
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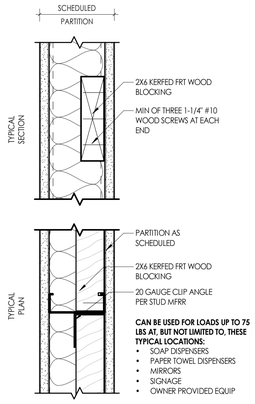

5 A401 **BLOCKING - DIMENSIONAL WOOD**
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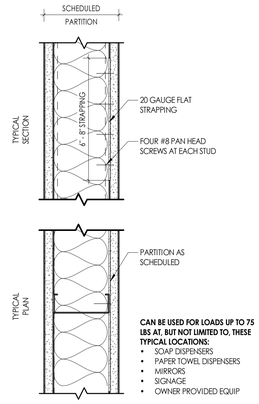

6 A401 **BLOCKING - FLAT STRAPPING**
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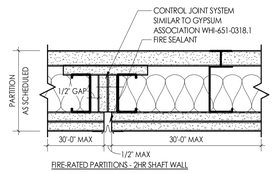
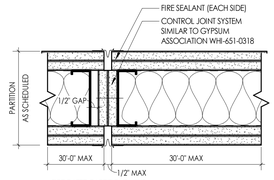
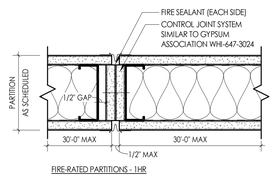


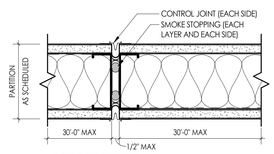
FIRE-RATED PARTITIONS - 2HR SHAFT WALL



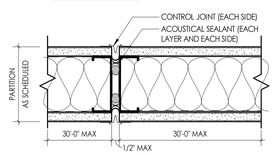
FIRE-RATED PARTITIONS - 2HR



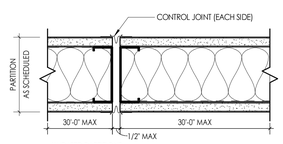
FIRE-RATED PARTITIONS - 1HR



SMOKE-RATED PARTITIONS



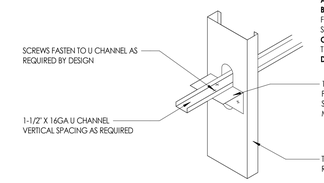
SOUND ATTENUATED PARTITIONS



UNRATED PARTITIONS

NOTES:
1. REFER TO ASTM C840-08 OR GA-216-2013 FOR INSTALLATION REQUIREMENTS.
2. LOCATIONS SHOWN ON INTERIOR ELEVATIONS, RCPS, AND FINISH PLANS WHERE APPLICABLE. FINAL LOCATIONS MUST BE APPROVED BY ARCHITECT.
3. GYPSUM BOARD STRIPS SHOWN IN FIRE RATED CONDITIONS SHALL BE CONTINUOUS

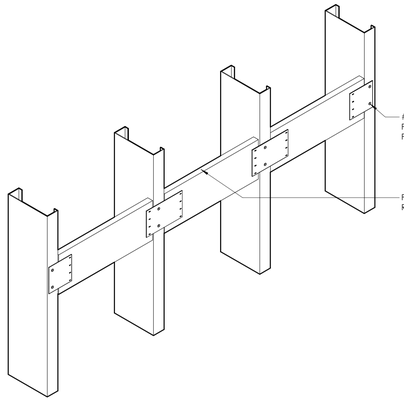
10 A401 **CONTROL JOINT DETAILS**
3" = 1'-0"



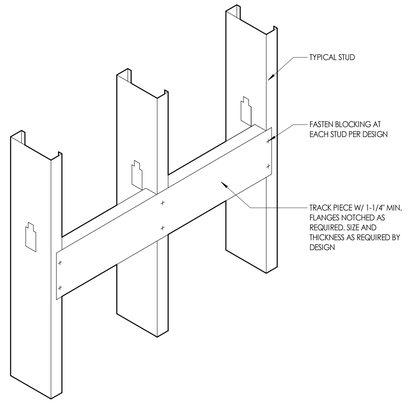
NOTES:
1) THIS DETAIL SHALL NOT BE UTILIZED IF STUD DEPTH EXCEEDS 8".

2) RIGID FACING MATERIAL APPLIED TO BOTH STUD FLANGES MAY BE UTILIZED IN LIEU OF U CHANNEL, PROVIDED THE FOLLOWING CRITERIA:
A) STUD HEIGHT DOES NOT EXCEED 16'.
B) SHEATHING APPLIED TO BOTH STUD FLANGES FULL HEIGHT PER APPLICABLE A.S.T.M. STANDARDS.
C) STUD SHALL BE BRACED IF ONE FLANGE IS TEMPORARILY UNSHEATHED.
D) STUD GAUGE IS MAX. OF 16GA.

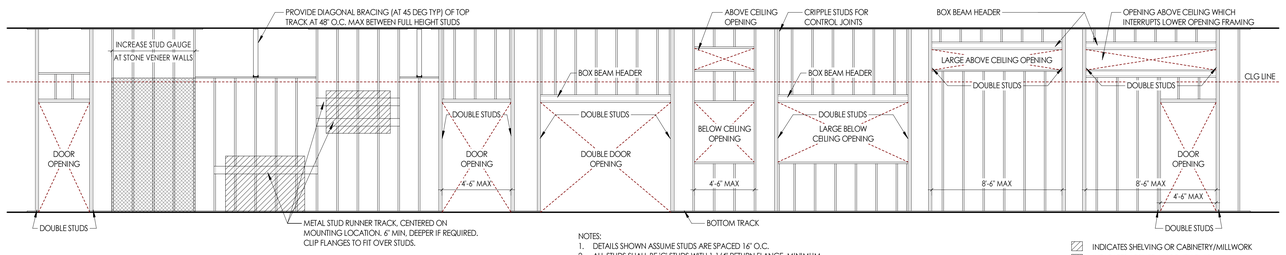
7 A401 **U CHANNEL DETAIL - 3D**
1 1/2" = 1'-0"



8 A401 **FLEXIBLE WOOD BACKING PLATE - 3D**
1 1/2" = 1'-0"



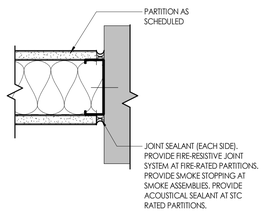
9 A401 **BACKING PLATE DETAIL - 3D**
1 1/2" = 1'-0"



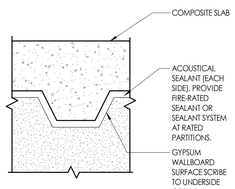
NOTES:
1. DETAILS SHOWN ASSUME STUDS ARE SPACED 16" O.C.
2. ALL STUDS SHALL BE 'C' STUDS WITH 1-1/4" RETURN FLANGE, MINIMUM.
3. DOUBLE STUDS AT SIDES OF OPENINGS SHALL NOT BE CUT FOR DUCTWORK OR ANY OTHER MECHANICAL SYSTEMS.
4. PROVIDE PARTITION BRACING AT ALL ASSEMBLIES OVER 15'-0" IN HEIGHT, UNO

INDICATES SHELVING OR CABINETRY/MILLWORK
INDICATES APPLIED MASONRY FINISH

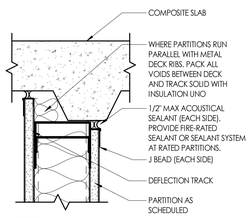
11 A401 **INTERIOR PARTITION FRAMING DETAILS**
1/4" = 1'-0"



17 A401 **PARTITION DTL AT DISSIMILAR MATERIALS**
3" = 1'-0"

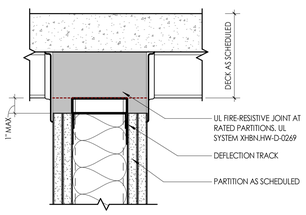


ELEVATION
NOTE: SIMILAR DETAIL AT BEAMS, WAFFLE SLABS AND FLAT SLABS.

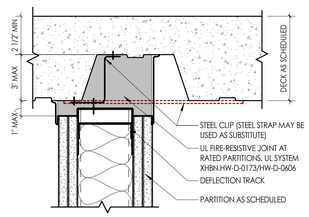


SECTION
NOTE: SIMILAR DETAIL AT BEAMS, WAFFLE SLABS AND FLAT SLABS.

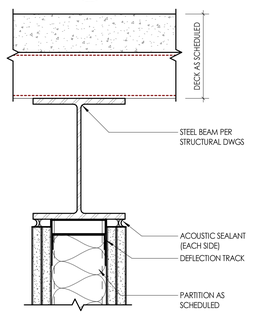
12 A401 **GWB SCRIBE DETAILS (RATED & STC PARTITIONS)**
3" = 1'-0"



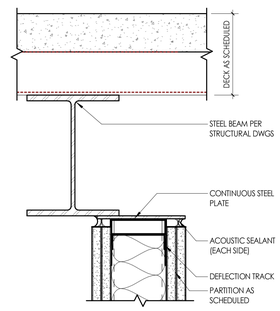
13 A401 **RATED PARTITION - PERP. TO DECK**
3" = 1'-0"



14 A401 **RATED PARTITION - PARALLEL TO DECK**
3" = 1'-0"



15 A401 **UNRATED PARTITION - CENTER OF BEAM**
3" = 1'-0"



16 A401 **UNRATED PARTITION - EDGE OF BEAM**
3" = 1'-0"

PARTITION GENERAL NOTES

NOTE: ALL WALL TYPES MAY NOT BE USED ON THIS PROJECT.

PARTITION FRAMING NOTES:
1. **ANY PARTITION NOT DESIGNATED WITH A PARTITION TAG SHALL BE TYPE "A3L"**
2. ALL PARTITIONS SHALL EXTEND TO STRUCTURE ABOVE, UNO. PROVIDE DIAGONAL BRACING AS REQUIRED.
3. REFER TO STRUCTURAL DRAWINGS FOR MASONRY WALL REINFORCEMENT, GROUTING, AND STRUCTURAL ATTACHMENT.
4. **WHERE 24" O.C. SPACING IS UTILIZED FOR ANY REASON, INCREASE STEEL GAUGE AS APPROPRIATE TO MAINTAIN INTEGRITY.**
5. REFER TO **SPECIFICATIONS** FOR METAL STUD GAUGE REQUIREMENTS. ASSUME A MIN STUD GAUGE OF 18 GA. INCREASE WHERE REQUIRED.
6. REFER TO **TYPICAL FIXTURE AND ACESSORIES** SHEET FOR BLOCKING REQUIREMENTS.
7. "LINE OF STRUCTURE" INDICATED IN TYPICAL DETAILS IS DIAGRAMMATIC ONLY.
8. **REFER TO HEAD OF WALL DETAILS FOR CONNECTION TO STRUCTURE AND FIRE-RATED REQUIREMENTS OF ALL PARTITIONS.**

PARTITION INSULATION & GWB NOTES:
1. FOR RATED & SOUND ATTENUATED PARTITIONS:
   A. SCRIBE GWB AROUND UNDERSIDE OF DECKING AND AROUND OF STRUCTURE.
   B. FRICTION FIT SOUND ATTENUATING INSULATION BETWEEN STUDS TO FILL FULL DEPTH OF CAVITY.
      NON-RATED PARTITIONS, USE: BATT INSULATION (FIBERGLASS)
      RATED PARTITIONS, USE: ROCK WOOL
1. GWB MAY TERMINATE AT 6" MIN ABOVE CEILING FOR ALL PARTITIONS THAT ARE NEITHER RATED NOR SOUND ATTENUATED.
2. ***DESIGNER NOTE:*** STC RATINGS / TEST NUMBERS INDICATED ASSUME 5/8" TYPE 'X' GWB. ADJUST ACCORDINGLY.
3. PARTITIONS ARE ASSUMED TO HAVE A BASELINE OF 5/8" TYPE 'X' GWB. PROVIDE ALTERNATIVE TYPES OF WALL BOARD BASED ON THE SPECIFIC LOCATION AND/OR FINISHES TO BE APPLIED:
   A. PROVIDE 5/8" BACKER BOARD IN LIEU OF ONE LAYER GWB AT ALL WALL FACES RECEIVING TILE.
   B. PROVIDE MOISTURE RESISTANT GWB AT ALL TOILET ROOMS, JANITOR'S CLOSETS AND OTHER WET LOCATIONS WHERE TILE AND TILE BACKER BOARD ARE NOT INSTALLED, INCLUDING BEHIND AND 2'-0" IN EACH DIRECTION FROM THE CENTERLINES OF ALL PLUMBING FIXTURES, UNO.
   C. PROVIDE 5/8" IMPACT RESISTANT BOARD **WHERE INDICATED.**
   D. PROVIDE 5/8" ABUSE BOARD **WHERE INDICATED.**
   E. PROVIDE 5/8" ACOUSTIC GWB **WHERE INDICATED.**
4. **PARTITION TYPES WITH ONE SIDE OF DOUBLE DRYWALL TO BE PLACED SO THAT THE DOUBLE SIDE IS ON CORRIDOR AND/OR HIGH TRAFFIC SIDE OF WALL.**
5. PROVIDE CONTROL JOINT WHERE NEW PARTITIONS ABUT EXISTING CONSTRUCTION.
6. PROVIDE CONTROL JOINTS A MAXIMUM OF 30'-0" APART, UNLESS NOTED OTHERWISE. PER ASTM C 840-17A. LOCATE ABOVE DOOR FRAMES WHERE POSSIBLE.
7. REFER TO SPECIFICATIONS FOR FINISH LEVEL INFORMATION.

PARTITION LIFE SAFETY NOTES:
1. REFER TO CODE/LIFE SAFETY DRAWINGS FOR RATED PARTITIONS AND UL ASSEMBLIES. ALL RATED PARTITIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH UL DESIGN LISTINGS.
2. REFER TO UL HEAD-OF-WALL AND WALL-TO-WALL CONNECTIONS AND UL APPROVED PENETRATIONS FOR RATED WALLS. FOR ALL PARTITIONS INDICATED AS PART OF A SMOKE COMPARTMENT, SEAL TIGHT ALL GAPS, PENETRATIONS, AND OPENINGS WITHIN PARTITION TO PREVENT PASSAGE OF SMOKE.
3. FIRESTOP/ SMOKE STOP ALL REQUIRED WALL PARTITIONS, SLABS, AND PENETRATIONS THROUGH NEW AND EXISTING WALLS WITHIN THE PROJECT LIMITS IN COORDINATION WITH CODE PLAN. OR WHERE COORDINATED SYSTEMS CONNECTION POINTS ARE LOCATED OUTSIDE THE PROJECT LIMIT AREA. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS AND **SPECIFICATIONS.**
4. WHERE RATED PARTITIONS ARE PERPENDICULAR TO METAL DECK RIBS, PACK ALL VOIDS WITH FIRESAFING MATERIAL.
5. NOTIFY OWNER AND ARCHITECT OF ANY EXISTING NON-COMPLIANT PENETRATIONS THROUGH RATED PARTITIONS AS SHOWN ON THE LIFE SAFETY PLANS.
6. CONSTRUCT ALL WALLS AND PARTITIONS IN ORDER OF RATING PRIORITY, BEGINNING WITH THE HIGHEST RATED WALLS FIRST. REFER TO FRAMING DETAILS.
7. EACH FIRE AND SMOKE RESISTANCE RATED PARTITION SHOWN ON THE PLANS SHALL BE IDENTIFIED AS SUCH WITH A LABEL AS REQUIRED BY THE ADOPATED STATE CODE.
8. ***FOR HEALTHCARE PROJECTS:*** **PROVIDE ACOUSTICAL/ SMOKE STOP SEALANT AT ALL CORRIDOR HEAD WALL AND THRU WALL PENETRATIONS AT NEW AND/OR EXISTING CORRIDOR PARTITION INSTALLATIONS.**
9. **AT TEMPORARY PARTITIONS, TAPE JOINTS BETWEEN WALL AND FLOOR, AND WALL AND CEILING. PROVIDE FIRE RETARDANT POLYETHYLENE FROM TOP OF CEILING PANELS TO UNDERSIDE OF DECK. TAPE JOINT BETWEEN POLYETHYLENE AND GWB. SEAL PENETRATIONS IN POLYETHYLENE AT DUCTS, PIPES, CONDUITS, AND CABLING. IF CEILING DOES NOT EXIST, EXTEND GWB TO DECK.**
10. **REFER TO LIFE SAFETY PLAN FOR LOCATION & EXTENTS OF PARTITIONS THAT REQUIRE ELECTROMAGNETIC OR RADIATION SHIELDING. COORDINATE WITH PHYSICISTS REPORT.**

PARTITION FINISH NOTES:
1. REFER TO INTERIOR DRAWINGS FOR LOCATIONS OF WALL TILE AND OTHER SPECIALTY/APPLIED WALL FINISHES.
2. WHERE LARGE FORMAT WALL TILE IS INDICATED ON FINISH DRAWINGS (15" OR LONGER IN ANY DIRECTION), PROVIDE ENHANCED WALL FINISH TOLERANCE. REFER TO **SPECIFICATIONS.**
3. ***DESIGNER NOTE:*** **CHECK FOR ANY AREAS WHERE APPLIED FINISHES WOULD NECESSITATE THE NEED TO INCREASE DOOR FRAME THROAT DEPTH. ADJUST ACCORDINGLY.**

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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number: R25.18089.00
Client Name: UNC HEALTH WAYNE
Project Name: CATH LAB RENOVATION
Project Address: 2700 WAYNE MEMORIAL DRIVE GOLDSBORO, NC 27533
CON Number: P-12569-24

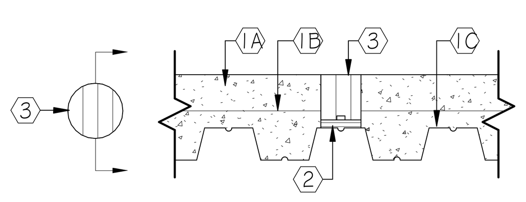
PROJECT ISSUE & REVISION SCHEDULE
#	Date	Description

PROFESSIONAL STAMPS
CPL Architects and Engineers, P.C. Registered Architecture Company 51301 North Carolina Charlotte, North Carolina
Kenneth Arnold Ryan Registered Architect 8924 North Carolina Charlotte, N.C. 11/14/2025

SHEET INFORMATION
Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: PARTITION DETAILS - BLOCKING
Drawing Number: A401

11/12/2025 11:12:06 AM PROJECT FILES ON ACC

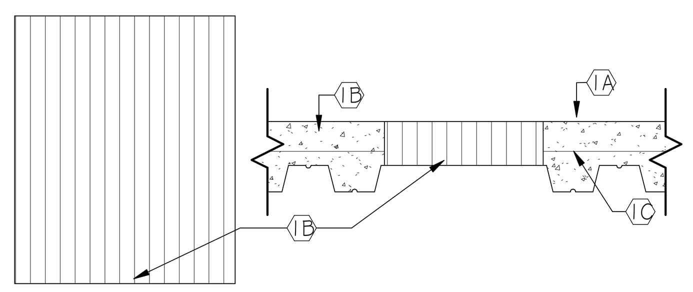
Note: Patch steel beam fireproofing to match UL Design No. N609 (mastic coating trowel applied) and N706 (spray applied) depending on fireproofing application.



SYSTEM NO. F-A-0002
F RATING - 2 AND 3 HR (SEE ITEMS 1 & 3)
T RATING - 2 AND 3 HR (SEE ITEMS 1 & 3)

SECTION A-A

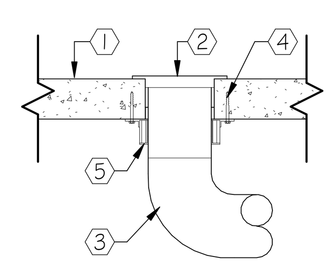
1. **FLOOR-CEILING ASSEMBLY** - THE FIRE RATED UNPROTECTED STEEL DECK FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL D900 SERIES DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND AS SUMMARIZED BELOW:
A. **NORMAL WEIGHT OF LIGHTWEIGHT CONCRETE** - MIN 5-1/2 IN. TOPPING THICKNESS OF NORMAL WEIGHT CONCRETE WITH CARBONATE OR SILICEOUS AGGREGATE, 145 TO 155 PCF UNIT WEIGHT, MIN 3000 PSI COMPRESSIVE STRENGTH. MIN 4-1/4 IN. TOPPING THICKNESS OF LIGHTWEIGHT CONCRETE WITH EXPANDED SHALE, CLAY, OR SLATE AGGREGATE, 105 TO 115 PCF UNIT WEIGHT, MIN 3000 PSI COMPRESSIVE STRENGTH. F AND T RATINGS ARE 2 F WHEN NORMAL WEIGHT CONCRETE TOPPING THICKNESS IS REDUCED TO MIN 4-1/2 IN. OR LIGHTWEIGHT CONCRETE TOPPING THICKNESS IS REDUCED TO 3-1/4 IN.
B. **WELDED WIRE FABRIC** - 6 X 6 - W1.4 X W1.4
C. **STEEL FLOOR AND FORM UNITS*** - COMPOSITE OR NONCOMPOSITE 1-1/2, 2, OR 3 IN. DEEP FLUTED GALV. UNIT AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN
THE DIA. OF OPENING CORE-DRILLED THROUGH FLOOR ASSEMBLY IS 3 IN.
2. **FIRESTOP DEVICE*** - FIRESTOP DEVICE CONSISTS OF A COMPRESSION UNIT AND ELASTOMERIC INSERT SIZED TO FIT THE OPENING. DEVISE IS INTENDED TO BE FRICTION FITTED INTO PRE-DRILLED OPENING OF FLOOR IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. DEVICE TO BE INSERTED FROM TOP OF FLOOR ASSEMBLY AND RECESSED FROM TOP SURFACE OF FLOOR TO ACCOMMODATE THE REQUIRED THICKNESS OF HYDRAULIC CEMENT.
J M HUBER CORP - CLOSURE PLUG
3. **HYDRAULIC CEMENT** - MIN 3-1/2 IN. THICKNESS OF HYDRAULIC CEMENT OR MORTAR APPLIED WITHIN THE OPENING, FLUSH WITH TOP SURFACE OF FLOOR. FOR 2 F FLOOR-CEILING ASSEMBLIES, MIN 2-1/2 IN. THICKNESS OF HYDRAULIC CEMENT OR MORTAR TO BE APPLIED WITHIN THE OPENING
*BEARING THE UL CLASSIFICATION MARK.



SYSTEM NO. F-A-0003
F RATING - 3 AND 4 HR (SEE ITEMS 2B)
T RATING - 3 AND 4 HR (SEE ITEMS 2B)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

SECTION A-A

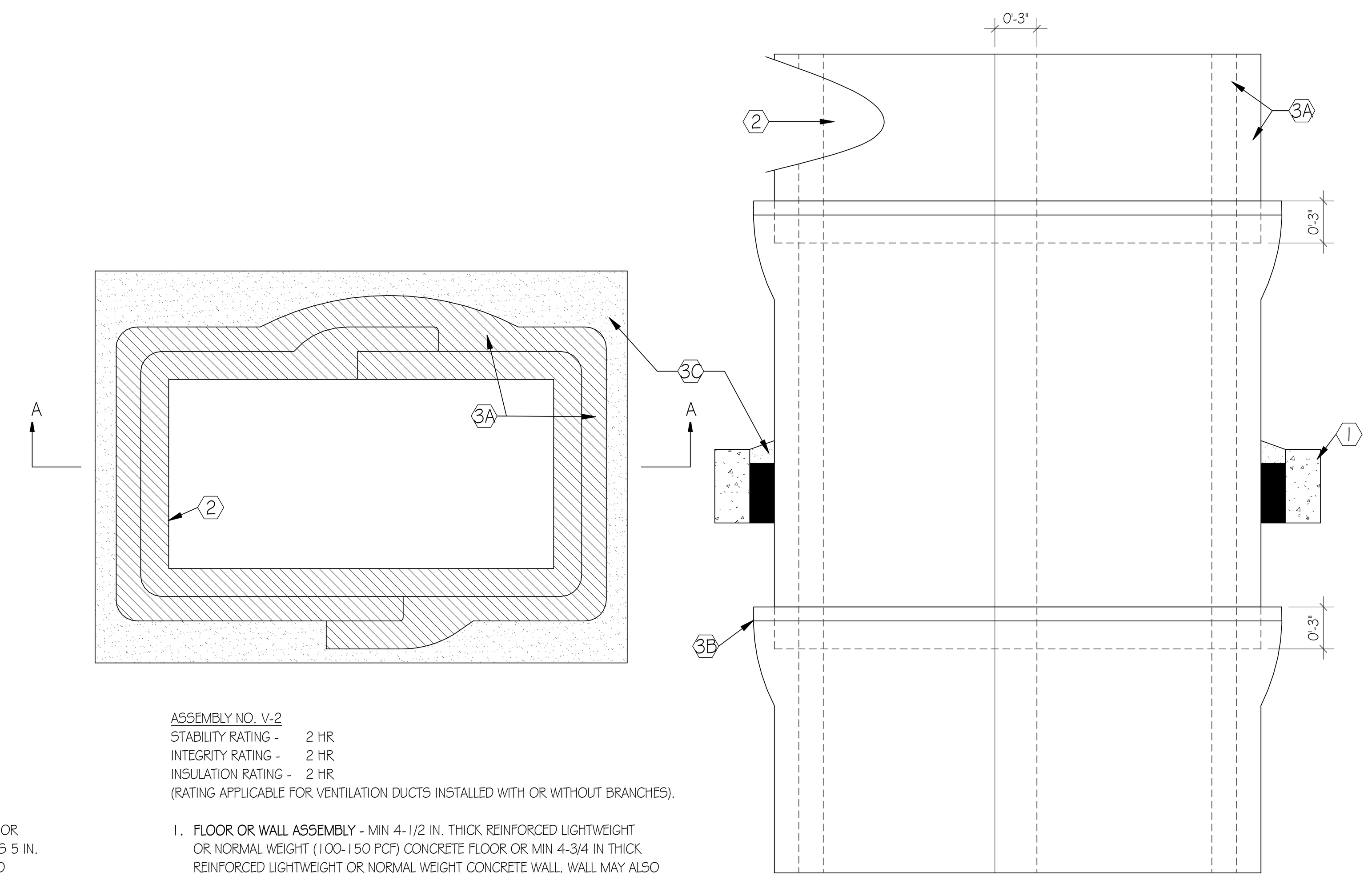
1. **FLOOR-CEILING ASSEMBLY** - THE FIRE RATED UNPROTECTED STEEL DECK FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL D900 SERIES DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND AS SUMMARIZED BELOW:
A. **NORMAL WEIGHT OF LIGHTWEIGHT CONCRETE** - MIN 5-1/2 IN. TOPPING THICKNESS OF NORMAL WEIGHT CONCRETE WITH CARBONATE OR SILICEOUS AGGREGATE, 145 TO 155 PCF UNIT WEIGHT, MIN 3000 PSI COMPRESSIVE STRENGTH. MIN 4-1/4 IN. TOPPING THICKNESS OF LIGHTWEIGHT CONCRETE WITH EXPANDED SHALE, CLAY, OR SLATE AGGREGATE, 105 TO 115 PCF UNIT WEIGHT, MIN 3000 PSI COMPRESSIVE STRENGTH. F AND T RATINGS ARE 2 F WHEN NORMAL WEIGHT CONCRETE TOPPING THICKNESS IS REDUCED TO MIN 4-1/2 IN. OR LIGHTWEIGHT CONCRETE TOPPING THICKNESS IS REDUCED TO 3-1/4 IN.
B. **WELDED WIRE FABRIC** - 6 X 6 - W1.4 X W1.4
C. **STEEL FLOOR AND FORM UNITS*** - COMPOSITE OR NONCOMPOSITE 1-5/16 TO 3 IN. DEEP FLUTED GALV. UNITS OR AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGNS. MAX AREA OF OPENING IS 1,024 SQ IN. WITH MAX DIMENSION OF 32 IN.
2. **FIRESTOP SYSTEM*** - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. **FORMS** - (NOT SHOWN) - USED AS A FORM TO PREVENT LEAKAGE OF FILL MATERIAL DURING INSTALLATION. FORMS TO BE A RIGID SHEET MATERIAL DURING INSTALLATION. FORMS TO BE RIGID SHEET MATERIAL, CUT TO FIT THE CONTOUR OF THE OPENING AND POSITIONED AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. FORMS MAY BE REMOVED AFTER FILL MATERIAL HAS CURED.
B. **FILLS, VOID OR CAVITY MATERIAL* - MORTAR** - IN 3 HR FIRE-RATED ASSEMBLIES, MIN 3 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. IN 4 HR FIRE-RATES ASSEMBLIES, MIN 4-1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. MORTAR TO BE MIXED WITH WATER AT A RATE OF 1.9 TO 2.4 GAL (7-9 LITERS) PER BAG IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
ISOLATEK INTERNATIONAL- CAFCO TPS MORTAR
*BEARING THE UL CLASSIFICATION CODE.



SYSTEM NO. F-A-2075
F RATING - 2 HR
T RATING - 0 HR

SECTION A-A

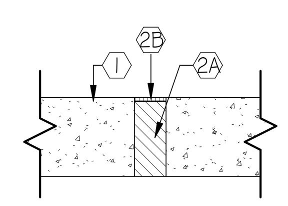
1. **FLOOR ASSEMBLY** - MIN 2-1/2 UB, THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. MAX DIAM OF OPENING IS 5 IN.
2. **CLOSET FLANGE** - POLYVINYL CHLORIDE (PVC) CLOSET STUB SIZED TO ACCOMMODATE DRAIN PIP. CLOSET FLANGE INSTALLED OVER DRAIN PIPING WITHIN OPENING WITH FLANGE SECURED TO CONCRETE FLOOR WITH STEEL SCREWS.
3. **DRAIN PIPING** - NOM. 4 IN. DIAM SCHEDULE 40 PLYVINYL CHLORIDE (PVC) DRAIN PIPE FOR USE IN VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS. PIPE INSTALLED CONCENTRICALLED WITHIN FIRESTOP SYSTEM. ANNULAR SPACE BETWEEN DRAIN PIP AND PERIPHERY OF OPENING SHALL BE 1/4 IN.
4. **FILL, VOID OR CAVITY MATERIALS*** - MIN 1/2 IN THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE BOTTOM SURFACE OF FLOOR.
HILTI CONSTRUCTION CHEMICALS DIV OF HILTI INC - FS-ONE SEALANT
5. **FIRESTOP DEVICE* - FIRESTOP COLLAR** - FIRESTOP COLLAR SHALL BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. COLLAR TO BE INSTALLED AROUND PIPE AND SECURED TO THE UNDERSIDE OF THE FLOOR USING ANCHOR HOOKS PROVIDED WITH THE COLLAR. MIN 3 ANCHOR HOOKS REQUIRED. THE ANCHOR HOOKS ARE TO BE SECURED WITH 1/4 IN. DIAM BY MIN 1-1/2 IN. LONG STEEL EXPANSION BOLTS OR EQUIVALENT, IN CONJUNCTION WITH STEEL NUTS AND 3/4 IN. DIAM STEEL WASHERS, WITH 1 ANCHOR BOLD IN EACH ANCHOR HOOK.
HILTI CONSTRUCTION CHEMICALS DIV OF HILTI INC - CP 643 110/4"
*BEARING THE UL CLASSIFICATION MARK.



SECTION A-A

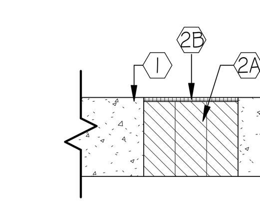
ASSEMBLY NO. V-2
STABILITY RATING - 2 HR
INTEGRITY RATING - 2 HR
INSULATION RATING - 2 HR
(RATING APPLICABLE FOR VENTILATION DUCTS INSTALLED WITH OR WITHOUT BRANCHES).

1. **FLOOR OR WALL ASSEMBLY** - MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE FLOOR OR MIN 4-3/4 IN THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS.
SEE **CONCRETE BLOCKS** (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. **STEEL AIR DUCT** - MIN 0.028 IN (22 GAUGE) THICK STEEL DUCT HAVING A MAX PERIMETER DIMENSION OF 216 IN AND A MAX INDIVIDUAL DIMENSION OF 84 IN. DUCT SECTIONS SHALL BE ASSEMBLED USING BOLTED FLANGES OR SMACNA APPROVED TRANSVERSE JOINT REINFORCEMENTS. DUCTS TO BE RIGIDLY SUPPORTED IN ACCORDANCE WITH SMACNA REQUIREMENTS AS SPECIFIED IN ITEM 4.
3. **FIRE RESISTIVE SYSTEM** - THE FIRE RESISTIVE SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. **BATTS AND BLANKETS*** - NOM 1-1/2 IN THICK, 6 PCF BLANKET TOTALLY ENCAPSULATED WITHIN FOIL-SCRIM FACERS. THE STEEL DUCT SHALL BE WRAPPED WITH TWO LAYERS OF DUCT WRAP INSTALLED WITH 3 IN. TRANSVERSE AND LONGITUDINAL OVERLAPS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE FIRST AND SECOND LAYER OVERLAPS SHALL BE STAGGERED 10-1/2 IN. ALL CUT EDGES AND ENDS SHALL BE SEALED WITH 3 IN WIDE PRESSED SENSITIVE ALUMINUM FOIL TAPE.
THERMAL CERAMICS INC - FIRE MASTER DUCT WRAP OR FIREMASTER DUCT WRAP+
B. **STEEL BANDING STRAPS** - MIN 1/2 IN WIDE BY 0.015 IN THICK CARBON STEEL BANDING STRAPS USED IN CONJUNCTION WITH MIN 1 IN LONG STAINLESS STEEL CRIMP CLIPS. BANDING STRAPS SPACED A MAX 12 IN. O.C. AND 1 1/2 IN. FROM TRAVERSE JOINTS OF DUCT WRAP.
C. **FIRESTOP SYSTEM** - WHEN THE VENTILATION DUCT PASSES THROUGH A FIRE RATED WALL OR FLOOR ASSEMBLY, THE THROUGH OPENINGS SHALL BE FIRESTOPPED IN ACCORDANCE WITH SYSTEM NO. C-AJ-7014 OR C-AJ-7021. SEE THROUGH-PENETRATION FIRESTOP SYSTEM IN VOL. 2 OF THE FIRE RESISTIVE DIRECTORY.
4. **HANGER SYSTEM** - (NOT SHOWN) - NO ADDITIONAL PROTECTION IS REQUIRED FOR HANGER SYSTEMS PROVIDING THAT A MIN 3/8 IN DIAM THREADED STEEL HANGER ROD IS USED IN CONJUNCTION WITH MIN 1-1/2 IN BY 1-1/2 IN BY 3/16 IN ANGLE OR 1-5/8 IN BY 1-5/8 IN BY MIN 0.060 IN. STEEL CHANNEL WITH STEEL DROP IN OR WEDGE EXPANSION TYPE MASONRY ANCHORS.
*BEARING THE UL CLASSIFICATION MARK



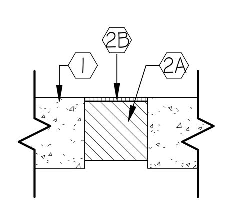
SYSTEM NO. FF-D-1009
F RATING - 2 HR
NOMINAL JOINT WIDTH - 2 IN
CLASS II AND III MOVEMENT CAPABILITIES - 25% COMPRESSION OR EXTENSION

1. **FLOOR ASSEMBLY** - MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) STRUCTURAL CONCRETE.
2. **JOINT SYSTEM - MAX WIDTH OF JOINT (AT TIME OF JOINT SYSTEM INSTALLATION) IS 2 IN. THE JOINT SYSTEM IS DESIGNED TO ACCOMMODATE A MAX 25 PERCENT COMPRESSION OR EXPANSION FROM ITS INSTALLED WIDTH.** THE JOINT SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. **PACKING MATERIAL** - MIN. 4.0 PCF MINERAL WOOL INSULATION INSTALLED IN JOINT OPENING AS A PERMANENT FORM. PIECES OF BATT CUT TO MIN WIDTH OF 4" AND INSTALLED EDGE-FIRST INTO THE JOINT OPENING, PARALLEL WITH JOINT DIRECTION, SUCH THAT BATT SECTIONS ARE COMPRESSED MIN 50 PERCENT IN THICKNESS AND THAT THE COMPRESSED BATT SECTIONS ARE RECESSED FROM TOP SURFACE OF FLOOR AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. ADJOINING LENGTHS OF BATT TO BE TIGHTLY-BUTTED WITH BUTTED SEAMS SPACED MIN 24 IN APART ALONG THE LENGTH OF THE JOINT.
FIBREX INSULATIONS INX - FBX SAFING INSULATION
B. **FILL VOID OR CAVITY MATERIAL*** - (CAULK) - MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE JOINT, FLUSH WITH TOP SURFACE OF FLOOR
TREMCO, INC. -- DYMERIC 511
*BEARING THE UL CLASSIFICATION MARK



SYSTEM NO. FF-D-1039
F RATING - 2 HR
NOMINAL JOINT WIDTH - 6 IN
CLASS II MOVEMENT CAPABILITIES - 10% COMPRESSION OR EXTENSION

1. **FLOOR ASSEMBLY** - MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) STRUCTURAL CONCRETE.
2. **JOINT SYSTEM - MAX WIDTH OF JOINT (AT TIME OF INSTALLATION OF JOINT SYSTEM) IS 6 IN. THE JOINT SYSTEM IS DESIGNED TO ACCOMMODATE A MAX 10 PERCENT COMPRESSION OR EXTENSION FROM ITS INSTALLED WIDTH.** THE JOINT SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. **FORMING MATERIAL** - MIN 4 PCF MINERAL WOOL BATT INSULATION INSTALLED IN JOINT OPENING AS A PERMANENT FORM. PIECES OF BATT CUT TO MIN WIDTH OF 4 IN. AND INSTALLED EDGEFIRST INTO JOINT OPENING, PARALLEL WITH JOINT DIRECTION, SUCH THAT BATT SECTIONS ARE COMPRESSED MIN 50 PERCENT IN THICKNESS AND THAT THE COMPRESSED BATT SECTIONS ARE RECESSED A MIN OF 1/2 IN. FROM TOP SURFACE OF THE FLOOR TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. ADJOINING LENGTHS OF BATT TO BE TIGHTLY-BUTTED WITH BUTTED SEAMS SPACED MIN 24 IN. APART ALONG THE LENGTH OF THE JOINT.
THERMAFIBER L L C -- TYPE SAF
B. **FILL VOID OR CAVITY MATERIAL* - SEALANT** - MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE JOINT, FLUSH WITH TOP SURFACE OF FLOOR.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP604 SELF-LEVELING FIRESTOP SEALANT
*BEARING THE UL CLASSIFICATION MARK



SYSTEM NO. FF-S-1004
F RATING - 1 AND 2 HR (SEE ITEMS 2)
JOINT WIDTH - 4 AND 6 IN MAX (SEE ITEM 2)

SECTION A-A

1. **FLOOR ASSEMBLY** - MIN 4-1/2 IN, THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) STRUCTURAL CONCRETE.
2. **JOINT ASSEMBLY** - MAX WIDTH OF JOINT IS 4 IN. OR 6 IN., DEPENDENT ON DENSITY OF THE PACKING MATERIAL (ITEM 2A) AND THE THICKNESS OF THE FILL MATERIAL (ITEM 2B), AS SHOWN IN THE TABLE BELOW. **THE ASSEMBLY RATING IS DEPENDENT ON THE CRITERIA OUTLINED IN THE TABLE BELOW.** THE JOINT SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. **PACKING MATERIAL** – MIN 3 IN. THICKNESS OF MIN 4.0 PCF OR MIN 6.0 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. THE APPROPRIATE MIN DENSITY OF THE MINERAL WOOL IS OUTLINED IN THE TABLE BELOW. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
B. **FILL, VOID OR CAVITY MATERIAL*** – MIN 1/2 IN. OR MIN 1 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE JOINT, FLUSH WITH TOP SURFACE OF FLOOR, AS OUTLINED IN THE TABLE BELOW:

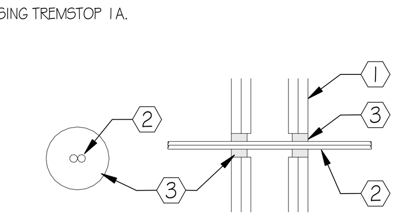
MAX JOINT OPENING WIDTH IN	PACKING MTL MIN DENSITY PCF	MIN FILL MTL THKNS IN	ASSEMBLY RATING HR
4	4	1/2	1
4	6	1/2	2
6	4	1	2

3M COMPANY – CP 25WB+ CAULK OR FB-3000 WT SEALANT
*BEARING THE UL CLASSIFICATION MARKING

1 A402 UL DETAILS
1 1/2" = 1'-0"

F - RATING = 1 HR. AND 2 HR.
T - RATING = 1/4HR. AND 1/2 HR.

1 OR 2 HOUR FIRE RATED THROUGH PENETRATION FIRESTOP FOR MULTIPLE CABLES THROUGH GYPSUM WALLS USING TREMSTOP 1A.

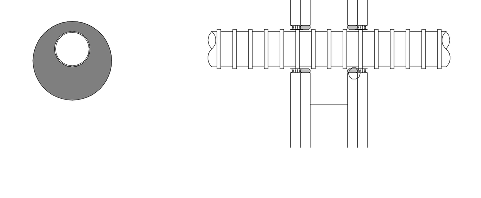


1. PRE - RATED GYPSUM WALLBOARD / STUD WALL ASSEMBLY. THE HOURLY F-RATING IS 1-1/2 HR. WHEN THE SYSTEM IS INSTALLED IN A 2 HR. RATED WALL. THE HOURLY F-RATING IS 1 HR. WHEN THE SYSTEM IS INSTALLED IN A 1 HR. RATED WALL.
2. CABLES -
A) MAX. FOUR ALUMINUM CONDUCTOR NO. 2/0 AWG (OR SMALLER) ALUMINUM METAL CLAD CABLE.
B) MAX. ONE CABLE WITHIN FIRESTOP SYSTEM. ANNULAR SPACE SHALL BE MIN. 1/4" TO MAX 1".
C) MAX FOUR ALUMINUM CONDUCTOR NO. 2/0 AWG (OR SMALLER) TYPE SER CABLE WITH PVC INSULATION. MAX TWO CABLES BUNDLED TOGETHER WITHIN FIRESTOP SYSTEM. ANNULAR SPACE SHALL BE FROM MIN. 1/2" TO MAX. 1-1/2".
3. TREMSTOP 1A - NOM. 1/2" THICKNESS OF SEALANT APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.
T-RATING = 1/4 HR. FOR F-RATING OF 1 HR.
T-RATING = 1/2 HR. FOR F-RATING OF 2HR.

2 A402 TYP. PENETRATIONS - CABLE
1 1/2" = 1'-0"

F - RATING = 1 HR. AND 2 HR.
T - RATING = 1 HR. AND 2 HR.

1 OR 2 HOUR FIRE RATED THROUGH PENETRATION FIRESTOP FOR SINGLE PLASTIC PIPE THROUGH GYPSUM WALLS USING TREMSTOP 1A.

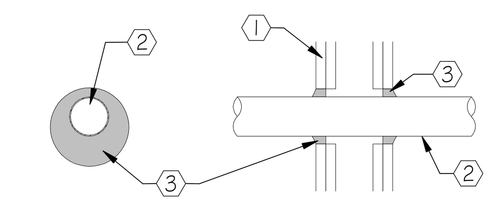


1. PRE-RATED GYPSUM WALLBOARD / STUD WALL ASSEMBLY. THE HOURLY T-RATING IS 1-1/2 HR WHEN THE SYSTEM IS INSTALLED IN A 2 HR RATED WALL. THE HOURLY T-RATING IS 1 HR WHEN THE SYSTEM IS INSTALLED IN A 1 HR RATED WALL.
2. ELECTRICAL NONMETALLIC TUBING (ENT) - NOM. 1" DIAM. (OR SMALLER) CORRUGATED WALL ENT CONSTRUCTED OF PVC. ANNULAR SPACE FROM MIN. 1/4" TO MAX. 3/8".
3. PACKING MATERIAL (OPTIONAL) - IN 2 HR. WALL, FOAM BACKER ROD FIRMLY PACKED INTO OPENING AS A PERMANENT FORM.
4. TREMSTOP 1A - MIN. 1/2" THICKNESS SEALANT APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SIDES OF WALL ASSEMBLY.

3 A402 TYP. PENETRATIONS - ENT
1 1/2" = 1'-0"

F-RATING = 1 HR. AND 2 HR.
T- RATING = 0 HR.

1 OR 2 HOUR FIRE RATED THROUGH PENETRATION FIRESTOP FOR SINGLE METAL PIPE THROUGH GYPSUM WALLS USING FYRE-SHIELD

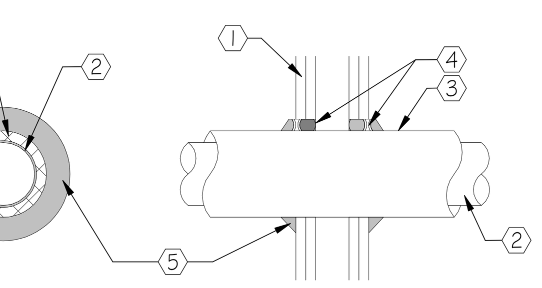


1. PRE-RATED GYPSUM WALLBOARD / STUD WALL ASSEMBLY. THE HOURLY F-RATING IS 1-1/2 HR WHEN THE SYSTEM IS INSTALLED IN A 2 HR RATED WALL. THE HOURLY F-RATING IS 1 HR WHEN THE SYSTEM IS INSTALLED IN A 1 HR RATED WALL.
2. METALLIC PIPE
A) STEEL PIPE - 8" DIAM. (OR SMALLER) SCH. 40 (OR HEAVIER) STEEL PIPE.
B) IRON PIPE - 8" DIAM. (OR SMALLER) CAST OR DUCTILE IRON PIPE.
C) CONDUIT - 4" DIAM. (OR SMALLER) EMT OR RIGID STEEL CONDUIT.
D) COPPER TUBING - 4" DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
E) COPPER PIPE - 4" DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. THE ANNULAR SPACE SHALL BE MIN. 1/4" TO MAX. 5/8" WITHIN THE FIRESTOP SYSTEM.
3. FYRE-SHIELD - MIN. 1/2" THICKNESS OF SEALANT APPLIED WITHIN OPENING. ADDITIONAL SEALANT TO BE INSTALLED SUCH THAT A MIN. 1/4" CROWN IS FORMED AROUND THE PENETRATING ITEM

6 A402 TYP. PENETRATIONS - METALIC PIPE
1 1/2" = 1'-0"

F - RATING = 2 HR.
T - RATING = 1/2 HR.

2 HOUR FIRE RATED THROUGH PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH GYPSUM WALLS USING TREMSTOP 1A.

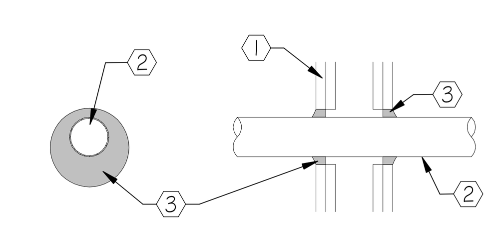


1. PRE-RATED GYPSUM WALLBOARD / STUD WALL ASSEMBLY.
2. METALLIC PIPE -
A. STEEL PIPE - NOM. 4" DIAM. (OR SMALLER) SCH. 10 (OR HEAVIER) STEEL PIPE.
B. IRON PIPE - NOM. 4" DIAM. (OR SMALLER) CAST OR DUCTIL IRON PIPE.
C. COPPER TUBING - NOM. 4" DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
D. COPPER PIPE - NOM. 4" DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
E. CONDUIT - NOM. 4" DIAM. (OR SMALLER) EMT OR STEEL CONDUIT.
3. PIPE COVERING - NOM. 3/4" THICK (OR LESS) AB / PVC FLEXIBLE FOAM INSULATION. THE ANNULAR SPACE SHALL BE MIN. 0" TO MAX. 3/8".
4. PACKING MATERIAL (OPTIONAL) - FOAM BACKER ROD FIRMLY PLACED INTO OPENING AS A PERMANENT FORM.
5. TREMSTOP 1A - MIN. 1" THICKNESS OF SEALANT APPLIED WITHIN ANNULUS FLUSH WITH BOTH SIDES OF WALL ASSEMBLY. AT POINT CONTACT A MIN. 5/8" BEAD OF SEALANT SHALL BE INSTALLED AT THE WALLBOARD / INSULATION INTERFACE. A 5/8" CROWN OF SEALANT SHALL BE FORMED AROUND THE PENETRATING ITEM.

5 A402 TYP. PENETRATIONS - METALIC PIPE 2
1 1/2" = 1'-0"

F-RATING = 1 HR. AND 2 HR.
T- RATING = 1 HR. AND 2 HR.

1 OR 2 HOUR FIRE RATED THROUGH PENETRATION FIRESTOP FOR SINGLE PLASTIC PIPE THROUGH GYPSUM WALLS USING TREMSTOP WBM.



1. PRE-RATED GYPSUM WALLBOARD / STUD WALL ASSEMBLY. THE HOURLY T-RATING IS 1-1/2 HR WHEN THE SYSTEM IS INSTALLED IN A 2 HR RATED WALL. THE HOURLY T-RATING IS 1 HR WHEN THE SYSTEM IS INSTALLED IN A 1 HR RATED WALL.
2. PLASTIC PIPE - NOM. 2" DIAM. (OR SMALLER) CPVC PIPE FOR USE IN CLOSED PIPING SYSTEMS. THE ANNULAR SPACE SHALL BE MIN. 1/4" TO MAX. 1-3/8" WITHIN THE FIRESTOP SYSTEM.
3. TREMSTOP WBM - MIN. 1/2" THICKNESS OF SEALANT APPLIED WITHIN OPENING. ADDITIONAL SEALANT TO BE INSTALLED SUCH THAT A MIN. 1/4" CROWN IS FORMED AROUND THE PENETRATING ITEM.

4 A402 TYP. PENETRATIONS - PLASTIC PIPING
1 1/2" = 1'-0"

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com

NC ENGINEERING FIRM LICENSE NO. C-2194

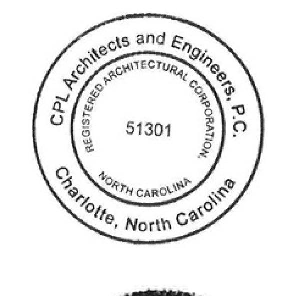
UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS



SHEET INFORMATION
Issued: 11/14/2025
Scale: 1 1/2" = 1'-0"
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: UL DETAILS
Drawing Number: - A402

11/12/2025 11:12:07 AM PROJECT FILES ON ACC

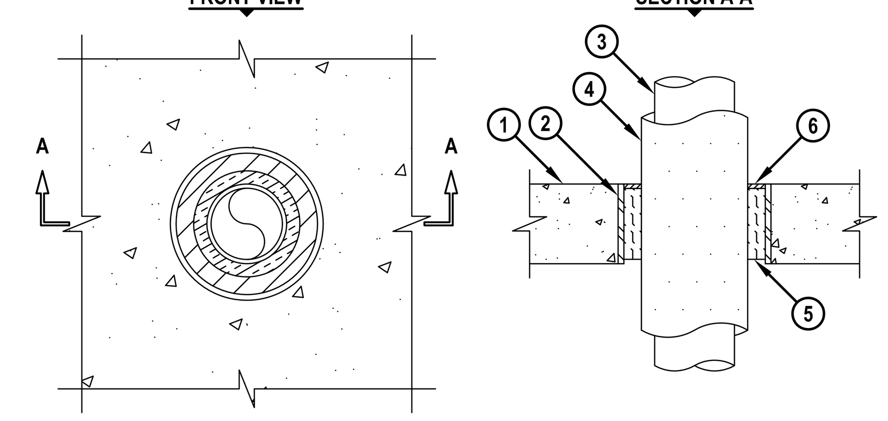
UL/cUL SYSTEM NO. C-AJ-5090

INSULATED METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F-RATING = 2-HR. OR 3-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = 4 CFM / SQ FT
L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

CAJ5090h.010615

FRONT VIEW — SECTION A-A



1. CONCRETE FLOOR OR WALL ASSEMBLY (2-HR. OR 3-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. [OPTIONAL] MAXIMUM 18" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 10 OR HEAVIER) MAY EXTEND MAXIMUM 3" ABOVE FLOOR, OR BOTH SURFACES OF WALL.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 5 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE OR TUBING.
4. MINIMUM 1/2" TO MAXIMUM 3/4" THICK AB/PVC PIPE INSULATION. NOMINAL 1" THICK AB/PVC PIPE INSULATION MAY BE USED ON 3" PIPES AND SMALLER FOR A MAXIMUM 2-HR. FIRE-RATING.
5. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
6. MINIMUM 1/4" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, WHEN MAXIMUM ANNULAR SPACE DOES NOT EXCEED 1-1/2". WHEN MAXIMUM ANNULAR SPACE DOES EXCEED 1-1/2", APPLY MINIMUM 1/2" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 18".
2. ANNULAR SPACE [FOR 2-HR. FIRE-RATING] = MINIMUM 1/2", MAXIMUM 12".
3. ANNULAR SPACE [FOR 3-HR. FIRE-RATING] = MINIMUM 1/2", MAXIMUM 1-1/2".
4. HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.

Hilti Firestop Systems	HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000	Sheet: 1 of 1 Scale: 9/64" = 1" Date: Jan. 06, 2015	Drawing No. CAJ 5090h

Saving Lives through Innovation and Education

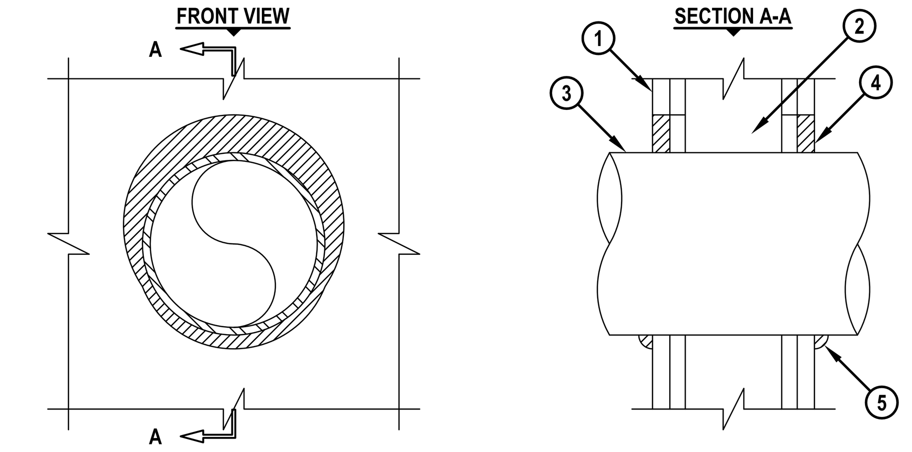
UL/cUL SYSTEM NO. W-L-1054

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT
L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

WL1054u.041316

FRONT VIEW — SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING :
A. 32-1/4" FOR STEEL STUD WALLS.
B. 14-1/2" FOR WOOD STUD WALLS.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/4".
3. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT OF CONTACT.

Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet: 1 of 1 Scale: 7/32" = 1" Date: Apr. 13, 2016	Drawing No. WL 1054u

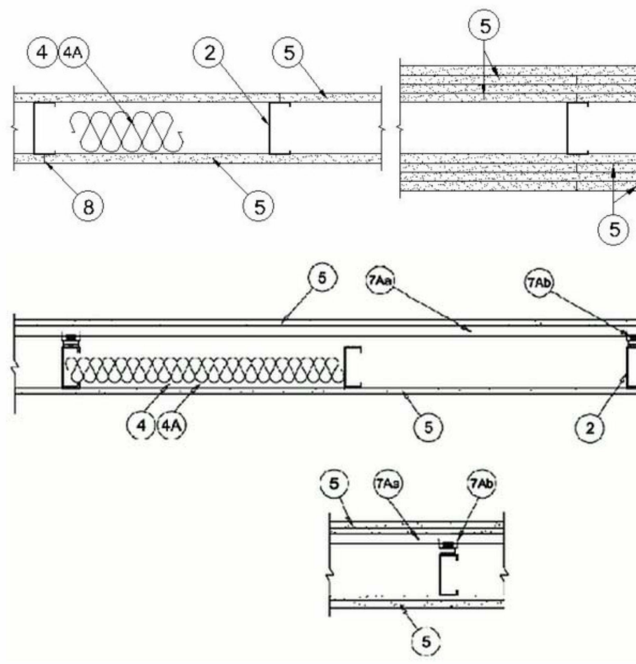
Saving Lives through Innovation and Education

Design No. U419

August 25, 2016

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1B. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

1D. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

1F. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1G. **Framing Members* — Floor and Ceiling Runner —** For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

1J. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C, 5I or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

2C. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

2D. **Framing Members* — Steel Studs —** In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2F. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.

2H. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2I. **Framing Members* — Steel Studs —** (As an alternate to Item 2, For use with Items 5C or 5L or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

2J. **Framing Members* — Metal Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2O. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

4B. **Batts and Blankets* —** For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

5B. **Gypsum Board* —** (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or ¾ in. may be used as alternate to all 5/8 in. or ¾ in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

5C. **Gypsum Board* —** (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

5E. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5F. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be

staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

5H. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

5I. **Gypsum Board* —** (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

5J. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

5K. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2 through 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

6. **Fasteners —** (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6A. **Fasteners —** (Not Shown) — For use with Item 5K- Type S or S-12 steel screws used to attach panels to studs or furring channels (Item 7). Single layer systems: 1 in. long screws, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long screws, spaced 16 in. OC. Second layer- 1-5/8 in. screws, spaced 8 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third layer- 2-5/8 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long screws, spaced 24 in. OC. Second layer- 1-5/8 in. long screws, spaced 24 in. OC. Third layer- 2-5/8 in. long screws, spaced 24 in. OC. Fourth layer- 3 in. long screws, spaced 8 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels —** (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

7A. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

7C. **Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

7D. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 24 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco —** (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants* —** (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs —** (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs —** (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2016-08-25

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Charlotte, NC 28209
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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH® Wayne

PROJECT INFORMATION

Project Number: R25.18089.00

Client Name: **UNC HEALTH WAYNE**

Project Name: **CATH LAB RENOVATION**

Project Address: 2700 WAYNE MEMORIAL DRIVE, GOLDSBORO, NC 27533

CON Number: P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued: 11/14/2025
Scale:
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: UL DETAILS

Drawing Number: - A403

11/12/2025 11:12:09 AM   PROJECT FILES ON ACC

1 A600 **GROUND FLOOR REFLECTED CEILING PLAN - OVERALL**
3/16" = 1'-0"

GENERAL CEILING NOTES

1. ANY DISCREPANCY BETWEEN THE REFLECTED CEILING PLAN AND THE FLOOR PLAN SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK.
2. FIRESTOP MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, INCLUDING BUT NOT LIMITED TO DUCTWORK AND CONDUIT PENETRATIONS THROUGH FLOORS AND WALLS.
3. ALL ITEMS SHOWN ON ARCHITECTURAL CEILING PLANS ARE FOR REFERENCE ONLY AND ARE SHOWN TO COORDINATE ITEMS WITH CEILINGS. REFER TO MEP DWGS TO COORDINATE ALL CEILING MOUNTED ITEMS. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK.
4. REFER TO MECHANICAL DRAWINGS FOR DIFFUSERS AND GRILLE LOCATIONS, ELECTRICAL DRAWINGS FOR LIGHTING TYPES AND CONTROLS, AND FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD LOCATIONS.
5. WHERE APPLICABLE, ALL FIXTURES AND DEVICES SHALL BE CENTERED ON A CEILING TILE.
6. CENTER CEILING GRID (EACH WAY) IN ROOMS SCHEDULED TO RECEIVE ACOUSTICAL CEILING SYSTEMS UNLESS NOTED OTHERWISE.
7. VERIFY WITH ARCHITECT THE INSTALLATION OF ANY CEILING TILES LESS THAN 6" IN WIDTH.
8. PROVIDE MOISTURE RESISTANT GYP. BD., AT ALL TOILET ROOM, JANITOR'S CLOSET AND OTHER WET LOCATION CEILING ASSEMBLIES.
9. ALL GYP. BD. CEILINGS AND SOFFITS SHALL BE PRIMED AND PAINTED SCHEDULED COLOR ON ALL FACES AND UNDERSIDE SURFACE.
10. VERIFY SOFFIT SIZE WITH MILLWORK SHOP DRAWINGS. PROVIDE 2" OVERHANG ON EXPOSED EDGES UNLESS NOTED OTHERWISE.
11. INSTALL CONTROL JOINTS IN GYP. CEILINGS PER ASTM C 840. VERIFY LOCATIONS WITH ARCHITECT.

CEILING TYPE LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

ACT-1 9'-0"	CEILING TYPE CEILING HEIGHT ABOVE FINISHED FLOOR
GWB	GYPSUM CEILING ON FRAMING OR SUSPENSION SYSTEM
ACT-#	ACOUSTICAL TILE CEILING

CEILING SYMBOL LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

2'X2' LIGHT	2'x4' LIGHT
RECESSED CAN LIGHT	STRIP LIGHT
SPECIALITY LIGHT PENDANT, WALL SCONCE (GRAPHICS VARY)	1'X'4 LINEAR LIGHT
SUPPLY AIR DIFFUSER	RETURN AIR DIFFUSER
EXHAUST DIFFUSER	LINEAR SLOT DIFFUSER
CUBICLE CURTAIN TRACK **SEE DETAILS**	CEILING ACCESS PANEL

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Charlotte, NC 28209
CPLteam.com

NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

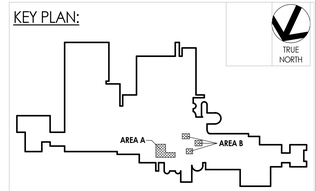
CPL Architects and Engineers, P.C. REGISTERED ARCHITECTURAL CORPORATION 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD FUHRI REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C. 11/14/2025

SHEET INFORMATION

Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: GROUND FLOOR REFLECTED CEILING PLAN - OVERALL
Drawing Number: A600

KEY PLAN:



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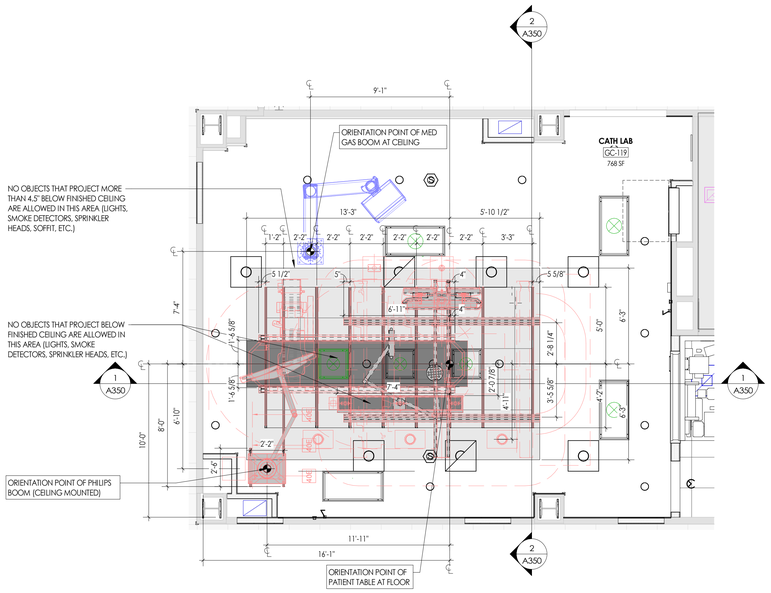
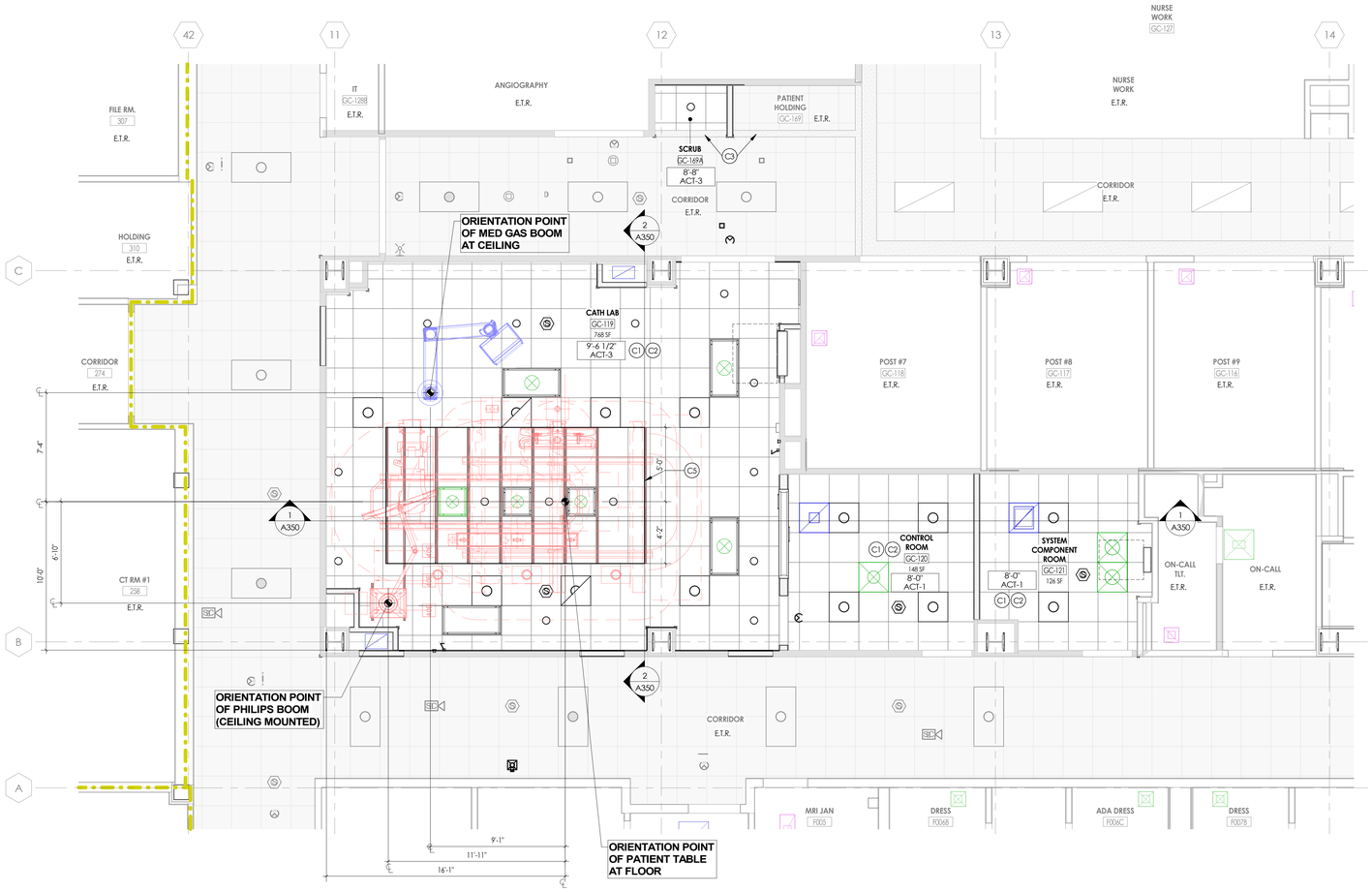


2 A600A **GROUND FLOOR REFLECTED CEILING PLAN - ENLARGED - AREA A UNISTRUT**

1/4" = 1'-0"



1 A600A **GROUND FLOOR REFLECTED CEILING PLAN - ENLARGED - AREA A**

1/4" = 1'-0"

GENERAL CEILING NOTES

1. ANY DISCREPANCY BETWEEN THE REFLECTED CEILING PLAN AND THE FLOOR PLAN SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK.
2. FIRESTOP MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, INCLUDING BUT NOT LIMITED TO DUCTWORK AND CONDUIT PENETRATIONS THROUGH FLOORS AND WALLS.
3. ALL ITEMS SHOWN ON ARCHITECTURAL CEILING PLANS ARE FOR REFERENCE ONLY AND ARE SHOWN TO COORDINATE ITEMS WITH CEILINGS. REFER TO MEP DWGS TO COORDINATE ALL CEILING MOUNTED ITEMS. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK.
4. REFER TO MECHANICAL DRAWINGS FOR DIFFUSERS AND GRILLE LOCATIONS, ELECTRICAL DRAWINGS FOR LIGHTING TYPES AND CONTROLS, AND FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD LOCATIONS.
5. WHERE APPLICABLE, ALL FIXTURES AND DEVICES SHALL BE CENTERED ON A CEILING TILE.
6. CENTER CEILING GRID (EACH WAY) IN ROOMS SCHEDULED TO RECEIVE ACOUSTICAL CEILINGS SYSTEMS UNLESS NOTED OTHERWISE.
7. VERIFY WITH ARCHITECT THE INSTALLATION OF ANY CEILING TILES LESS THAN 6" IN WIDTH.
8. PROVIDE MOISTURE RESISTANT GYP. BD., AT ALL TOILET ROOM, JANITOR'S CLOSET AND OTHER WET LOCATION CEILING ASSEMBLIES.
9. ALL GYP. BD. CEILINGS AND SOFFITS SHALL BE PRIMED AND PAINTED SCHEDULED COLOR ON ALL FACES AND UNDERSIDE SURFACE.
10. VERIFY SOFFIT SIZE WITH MILLWORK SHOP DRAWINGS. PROVIDE 2" OVERHANG ON EXPOSED EDGES UNLESS NOTED OTHERWISE.
11. INSTALL CONTROL JOINTS IN GYP. CEILINGS PER ASTM C 840. VERIFY LOCATIONS WITH ARCHITECT.

CEILING TYPE LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

ACT-1 9'-0"	CEILING TYPE CEILING HEIGHT ABOVE FINISHED FLOOR
GWB	GYPSUM CEILING ON FRAMING OR SUSPENSION SYSTEM
ACT-#	ACOUSTICAL TILE CEILING

CEILING SYMBOL LEGEND

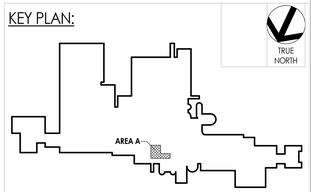
NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

	2'X2' LIGHT		2'x4' LIGHT
	RECESSED CAN LIGHT		STRIP LIGHT
	SPECIALITY LIGHT PENDANT, WALL SCONCE (GRAPHICS VARY)		1'X'4 LINEAR LIGHT
	SUPPLY AIR DIFFUSER		RETURN AIR DIFFUSER
	EXHAUST DIFFUSER		LINEAR SLOT DIFFUSER
	CUBICLE CURTAIN TRACK **SEE DETAILS**		CEILING ACCESS PANEL

CEILING KEYED NOTES

C1 NEW CEILING TILE & GRID, REFER TO FINISH PLANS FOR CEILING TYPE DETAILS.
C2 NEW LIGHTING AND DIFFUSERS, REFER TO MEP DRAWINGS.
C3 EXISTING SOFFIT TO REMAIN; TIE NEW PARTITION INTO SOFFIT AND PATCH TO MATCH FINISHES AS REQUIRED.
C4 PATCH/REPAIR EXISTING CEILING TO MATCH ADJACENT FINISHES WHERE DISTURBED BY NEW CONSTRUCTION.
C5 REFER TO STRUCTURAL AND PHILLIPS DRAWINGS FOR UNISTRUT PLAN AND ABOVE CEILING STRUCTURE.
C6 NEW CEILING CURTAIN TRACK F&I BY G.C., CURTAIN PROVIDED BY OWNER.

KEY PLAN:



CPL | Architecture Engineering Planning
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Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

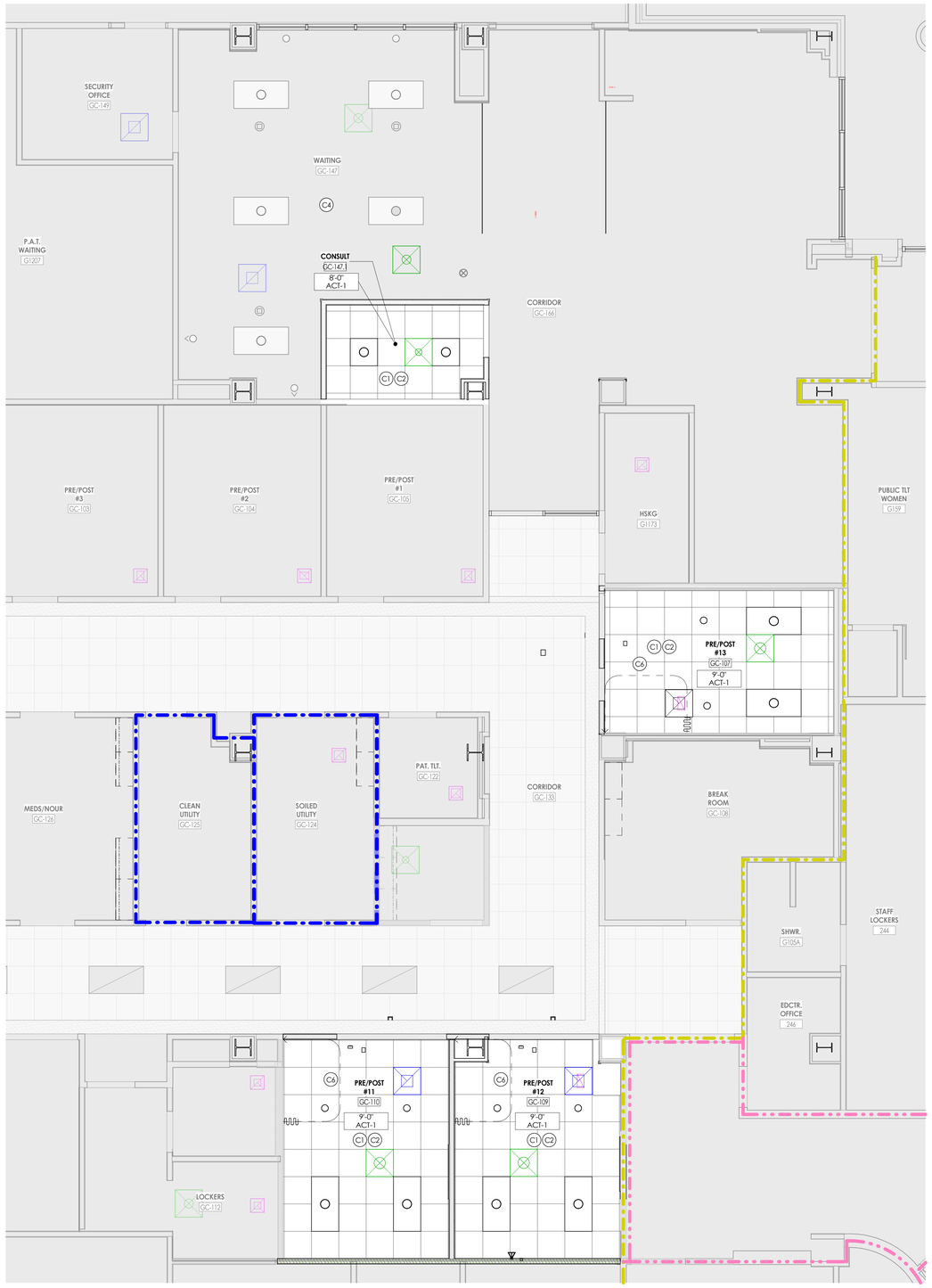
#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued 11/14/2025	Scale As indicated
Project Status FINAL CONSTRUCTION DRAWINGS	
Drawn By Author	Checked By Checker
Drawing Title ENLARGED GROUND FLOOR REFLECTED CEILING PLAN - AREA A	
Drawing Number A600A	

11/14/2025 8:49:41 AM PROJECT FILES ON ACC



1 / A600B **GROUND FLOOR REFLECTED CEILING PLAN - ENLARGED - AREA B**

1/4" = 1'-0"

GENERAL CEILING NOTES

1. ANY DISCREPANCY BETWEEN THE REFLECTED CEILING PLAN AND THE FLOOR PLAN SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK.
2. FIRESTOP MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, INCLUDING BUT NOT LIMITED TO DUCTWORK AND CONDUIT PENETRATIONS THROUGH FLOORS AND WALLS.
3. ALL ITEMS SHOWN ON ARCHITECTURAL CEILING PLANS ARE FOR REFERENCE ONLY AND ARE SHOWN TO COORDINATE ITEMS WITH CEILINGS. REFER TO MEP DWGS TO COORDINATE ALL CEILING MOUNTED ITEMS. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK.
4. REFER TO MECHANICAL DRAWINGS FOR DIFFUSERS AND GRILLE LOCATIONS, ELECTRICAL DRAWINGS FOR LIGHTING TYPES AND CONTROLS, AND FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD LOCATIONS.
5. WHERE APPLICABLE, ALL FIXTURES AND DEVICES SHALL BE CENTERED ON A CEILING TILE.
6. CENTER CEILING GRID (EACH WAY) IN ROOMS SCHEDULED TO RECEIVE ACOUSTICAL CEILING SYSTEMS UNLESS NOTED OTHERWISE.
7. VERIFY WITH ARCHITECT THE INSTALLATION OF ANY CEILING TILES LESS THAN 6" IN WIDTH.
8. PROVIDE MOISTURE RESISTANT GYP. BD., AT ALL TOILET ROOM, JANITOR'S CLOSET AND OTHER WET LOCATION CEILING ASSEMBLIES.
9. ALL GYP. BD. CEILINGS AND SOFFITS SHALL BE PRIMED AND PAINTED SCHEDULED COLOR ON ALL FACES AND UNDERSIDE SURFACE.
10. VERIFY SOFFIT SIZE WITH MILLWORK SHOP DRAWINGS. PROVIDE 2" OVERHANG ON EXPOSED EDGES UNLESS NOTED OTHERWISE.
11. INSTALL CONTROL JOINTS IN GYP. CEILINGS PER ASTM C 840. VERIFY LOCATIONS WITH ARCHITECT.

CEILING TYPE LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

ACT-1 / 9'-0"	CEILING TYPE CEILING HEIGHT ABOVE FINISHED FLOOR
GWB	GYPSUM CEILING ON FRAMING OR SUSPENSION SYSTEM
ACT-#	ACOUSTICAL TILE CEILING

CEILING SYMBOL LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

	2'X2' LIGHT		2'x4' LIGHT
	RECESSED CAN LIGHT		STRIP LIGHT
	SPECIALITY LIGHT PENDANT, WALL SCONCE (GRAPHICS VARY)		1'X'4 LINEAR LIGHT
	SUPPLY AIR DIFFUSER		RETURN AIR DIFFUSER
	EXHAUST DIFFUSER		LINEAR SLOT DIFFUSER
	CUBICLE CURTAIN TRACK **SEE DETAILS**		CEILING ACCESS PANEL

CEILING KEYED NOTES

C1 NEW CEILING TILE & GRID. REFER TO FINISH PLANS FOR CEILING TYPE DETAILS.
C2 NEW LIGHTING AND DIFFUSERS. REFER TO MEP DRAWINGS.
C3 EXISTING SOFFIT TO REMAIN; TIE NEW PARTITION INTO SOFFIT AND PATCH TO MATCH FINISHES AS REQUIRED.
C4 PATCH/REPAIR EXISTING CEILING TO MATCH ADJACENT FINISHES WHERE DISTURBED BY NEW CONSTRUCTION.
C5 REFER TO STRUCTURAL AND PHILLIPS DRAWINGS FOR UNISTRUT PLAN AND ABOVE CEILING STRUCTURE.
C6 NEW CEILING CURTAIN TRACK F&I BY G.C., CURTAIN PROVIDED BY OWNER.

KEY PLAN:

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com

NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. — REGISTERED ARCHITECTURAL CORPORATION — 51301 — NORTH CAROLINA — Charlotte, North Carolina

KENNETH ARNOLD RYAN — REGISTERED ARCHITECT — 8924 — NORTH CAROLINA — CHARLOTTE, N.C. — 11/14/2025

SHEET INFORMATION

Issued 11/14/2025	Scale As indicated
Project Status FINAL CONSTRUCTION DRAWINGS	
Drawn By Author	Checked By Checker

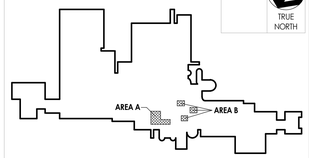
Drawing Title
ENLARGED GROUND FLOOR REFLECTED CEILING PLAN - AREA B

Drawing Number
A600B

11/13/2025 11:12:15 AM PROJECT FILES ON ACC

1 A700 **GROUND FLOOR EQUIPMENT FLOOR PLAN - OVERALL**
3/16" = 1'-0"

KEY PLAN:



TRUE NORTH

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NC ENGINEERING FIRM LICENSE NO. C-2194

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CON Number
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PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. REGISTERED ARCHITECTURE CORPORATION 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD FRAZIN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C. 11/14/2025

SHEET INFORMATION

Issued
11/14/2025

Scale
3/16" = 1'-0"

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
Author

Checked By
Checker

Drawing Title
GROUND FLOOR EQUIPMENT PLAN - OVERALL

Drawing Number
A700

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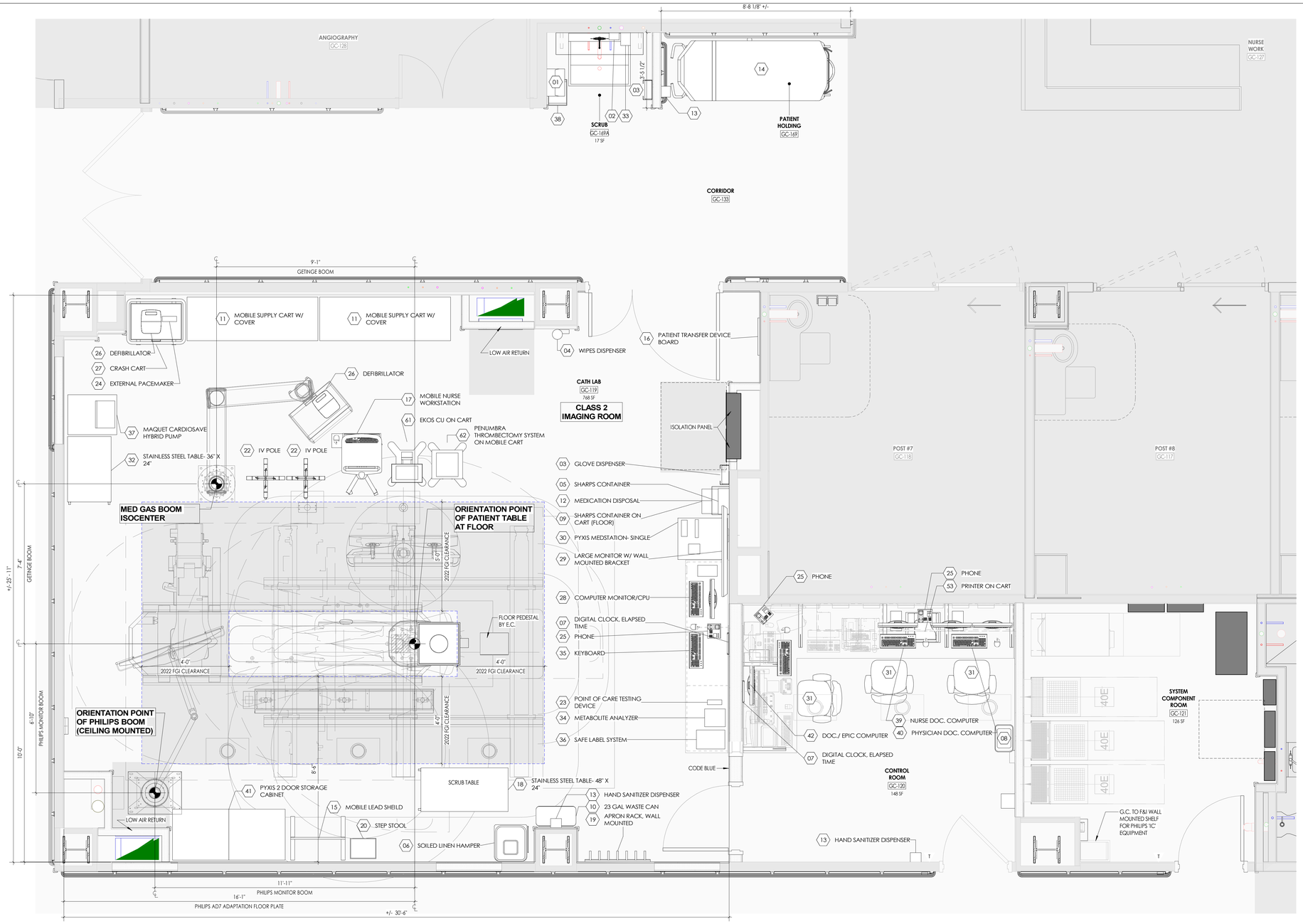


1 / A700A **ENLARGED GROUND FLOOR EQUIPMENT PLAN - AREA A**

1/2" = 1'-0"

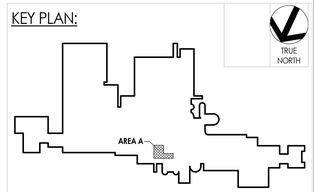
EQUIPMENT LEGEND

KEY #	EQUIP DESCRIPTION	QUANTITY
GC-107		
PRE/POST #13		
01	PAPER TOWEL DISPENSER	1
02	SOAP DISPENSER	1
03	GLOVE DISPENSER	1
05	SHARPS CONTAINER, WALL MOUNTED	1
13	HAND SANITIZER DISPENSER	1
14	PATIENT STRETCHER	1
38	TRASH CAN	1
43	IV POLE	1
44	CHAIR WITH ARMS- BARIATRIC SIZE	1
45	OVERBED TABLE	1
46	HEADWALL- REFER TO INTERIOR ELEV., & MEP DRAWINGS	1
47	VACUUM CANISTER	1
48	WALL MOUNTED DISPLAY- X-RAY FILM VIEWER	1
49	36"Wx24"H WHITEBOARD	1
52	WALL MOUNTED TELEVISION	1
GC-109		
PRE/POST #12		
01	PAPER TOWEL DISPENSER	1
02	SOAP DISPENSER	1
03	GLOVE DISPENSER	1
05	SHARPS CONTAINER, WALL MOUNTED	1
13	HAND SANITIZER DISPENSER	1
14	PATIENT STRETCHER	1
38	TRASH CAN	1
43	IV POLE	1
44	CHAIR WITH ARMS- BARIATRIC SIZE	1
45	OVERBED TABLE	1
46	HEADWALL- REFER TO INTERIOR ELEV., & MEP DRAWINGS	1
47	VACUUM CANISTER	1
48	WALL MOUNTED DISPLAY- X-RAY FILM VIEWER	1
49	36"Wx24"H WHITEBOARD	1
52	WALL MOUNTED TELEVISION	1
GC-110		
PRE/POST #11		
01	PAPER TOWEL DISPENSER	1
02	SOAP DISPENSER	1
03	GLOVE DISPENSER	1
05	SHARPS CONTAINER, WALL MOUNTED	1
13	HAND SANITIZER DISPENSER	1
14	PATIENT STRETCHER	1
38	TRASH CAN	1
43	IV POLE	1
44	CHAIR WITH ARMS- BARIATRIC SIZE	1
45	OVERBED TABLE	1
46	HEADWALL- REFER TO INTERIOR ELEV., & MEP DRAWINGS	1
47	VACUUM CANISTER	1
48	WALL MOUNTED DISPLAY- X-RAY FILM VIEWER	1
49	36"Wx24"H WHITEBOARD	1
52	WALL MOUNTED TELEVISION	1
GC-119		
CATH LAB		
03	GLOVE DISPENSER	1
04	WIPES DISPENSER	1
05	SHARPS CONTAINER, WALL MOUNTED	1
06	SOILED LINEN HAMPER	1
07	CLOCK, ELAPSED TIME- PRIMEX	1
09	SHARPS CONTAINER ON CART (FLOOR)	1
10	SLIM JIM VENTED 23 GAL WASTE CAN	1
11	MOBILE SUPPLY CART	2
12	MEDICATION DISPOSAL (WALL MOUNTED)	1
13	HAND SANITIZER DISPENSER	1
15	MOBILE LEAD SHIELD	1
16	PATIENT TRANSFER DEVICE BOARD (WALL MOUNTED)	1
17	NURSE WORKSTATION COMPUTER CART W/ POWER (WOW)	1
18	STAINLESS STEEL TABLE- 48" X 24"	1
19	APRON RACK, WALL MOUNTED	1
20	STEP STOOL- STACKABLE W/ CART	1
22	IV POLE	2
23	POINT OF CARE TESTING DEVICE	1
24	EXTERNAL PACEMAKER	1
25	PHONE DESKTOP	1
26	DEFIBULATOR	2
27	CRASH CART W/ DEFIF./ SECTION	1
28	COMPUTER STATION/ CPU	1
29	LARGE MONITOR ON WALL MOUNTED BRACKET	1
30	PYXIS MEDICATION STORAGE- SINGLE	1
32	STAINLESS STEEL TABLE- 36" X 24"	1
34	METABOLITE ANALYZER	1
35	KEYBOARD (LARGE DISPLAY MONITOR)	1
36	SAFE LABEL SYSTEM	1
37	MAQUET CARDIOSAVE HYBRID	1
41	PYXIS 2 DOOR STORAGE CABINET	1
PHILIPS	OPTO MONITOR OPTICAL UNIT (FFR)	1
GC-120		
CONTROL ROOM		
07	CLOCK, ELAPSED TIME- PRIMEX	1
08	WASTE CAN	1
13	HAND SANITIZER DISPENSER	1
25	PHONE DESKTOP	2
31	TASK CHAIR	3
39	NURSE DOCUMENTATION COMPUTER	1
40	PHYSICIAN DOCUMENTATION COMPUTER	1
42	DOCUMENTATION/ EPIC COMPUTER	1
53	PRINTER - UNDER COUNTER ON MOBILE CART	1
GC-147.1		
CONSULT		
25	PHONE DESKTOP	1
50	PATIENT SEATING- LOVESEAT	2
51	END TABLE	1
GC-169		
PATIENT HOLDING		
13	HAND SANITIZER DISPENSER	1
14	PATIENT STRETCHER	1
GC-169A		
SCRUB		
01	PAPER TOWEL DISPENSER	1
02	SOAP DISPENSER	1
03	GLOVE DISPENSER	1
33	SCRUB BRUSH DISPENSER	1
38	TRASH CAN	1

EQUIPMENT SCHEDULE NOTES:

1. EQUIPMENT LIST DEVELOPED FOR INFORMATION GIVEN TO THE ARCHITECT BY OWNER.
   A. EQUIPMENT LISTED ON SCHEDULE IS NOT A FULL LIST OF OWNER PROVIDED/ OWNER INSTALLED ITEMS - COORDINATE WITH OWNER EQUIPMENT LIST.
   B. EQUIPMENT LISTED ON SCHEDULE DOES NOT INCLUDE OWNER FURNITURE SUPPLIER ITEMS. REFER TO OWNER FURNITURE VENDOR DRAWINGS ISSUED FOR REFERENCE ONLY.
2. **WALL BLOCKING BY C.M. - ALL WOOD BLOCKING TO BE FIRE RETARDANT TYPE. COORDINATE FINAL LOCATION OF EQUIPMENT WITH OWNER.**
3. **QUANTITIES LISTED ON EQUIPMENT SCHEDULE SHALL BE VERIFIED WITH OWNER BEFORE INSTALLATION OF WOOD BLOCKING AND/OR MEP INFRASTRUCTURE NOTED ON SCHEDULE.**

KEY PLAN:



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CPLteam.com

NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. REGISTERED ARCHITECTURAL COMPANY 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD FRIAN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N. C. 11/14/2025

SHEET INFORMATION

Issued: 11/14/2025
Scale: 1/2" = 1'-0"
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: Author
Checked By: Checker
Drawing Title: ENLARGED GROUND FLOOR EQUIPMENT PLAN - AREA A
Drawing Number: A700A

11/12/2025 11:12:26 AM PROJECT FILES ON ACC

1 A700A.1 **ENLARGED GROUND FLOOR VENDOR EQUIPMENT PLAN - AREA A**

1/2" = 1'-0"

EQUIPMENT LEGEND- PHILIPS

0

KEY #	EQUIP DESCRIPTION	FURNISHED BY	INSTALLED BY	COMMENTS
PHILIPS	PHILIPS VOLCANO	PHILIPS	PHILIPS	
PHILIPS AD7	PHILIPS - 'AD7' ANGIO DIAGNOST 7 PREMIUM TABLE W/ PIVOT	PHILIPS	PHILIPS	
PHILIPS ATY	PHILIPS - 'ATY' EXAM ROOM AUXILIARY BOX	PHILIPS	PHILIPS	WALL BLOCKING BY C.M.- ALL WOOD BLOCKING TO BE FIRE RETARDANT TYPE. OWNER AND CONTRACTOR SHALL CONDUCT A WALK-THROUGH BEFORE WORK ON ELECTRICAL ROUGH-INS BEGINS TO DETERMINE FINAL LOCATION AND HEIGHT OF ALL WALL MOUNTED MONITORS AND DEVICES.
PHILIPS AUX1	PHILIPS - 'AUX1' AUXILIARY EQUIPMENT ADAPTER	PHILIPS	PHILIPS	
PHILIPS AUX2	PHILIPS - 'AUX2' AUXILIARY EQUIPMENT ADAPTER	PHILIPS	PHILIPS	
PHILIPS AUX3	PHILIPS - 'AUX3' AUXILIARY EQUIPMENT ADAPTER	PHILIPS	PHILIPS	
PHILIPS AUX4	PHILIPS - 'AUX4' AUXILIARY EQUIPMENT ADAPTER	PHILIPS	PHILIPS	
PHILIPS AUX5	PHILIPS - 'AUX5' AUXILIARY EQUIPMENT ADAPTER	PHILIPS	PHILIPS	
PHILIPS AUX6	PHILIPS - 'AUX6' AUXILIARY EQUIPMENT ADAPTER	PHILIPS	PHILIPS	
PHILIPS AUX10	PHILIPS - 'AUX10' AUXILIARY EQUIPMENT ADAPTER	PHILIPS	PHILIPS	
PHILIPS AUX11	PHILIPS - 'AUX11' AUXILIARY EQUIPMENT ADAPTER	PHILIPS	PHILIPS	
PHILIPS AUX12	PHILIPS - 'AUX12' AUXILIARY EQUIPMENT ADAPTER	PHILIPS	PHILIPS	
PHILIPS AVO81	PHILIPS - 'AVO81' AUXILIARY VIDEO OUTPUT (BOOM MOUNTED)	PHILIPS	PHILIPS	
PHILIPS AVOX1	PHILIPS- 'AVOX1' AUXILIARY VIDEO OUTPUT (FOR SYNCVISION)	PHILIPS	PHILIPS	
PHILIPS CC	PHILIPS - 'CC' CLEA CEILING	PHILIPS	PHILIPS	
PHILIPS CR1	PHILIPS- 'CR' CONTROL ROOM EQUIPMENT ADPATER	PHILIPS	PHILIPS	
PHILIPS CSC	PHILIPS - 'CSC' COMMUNICATION SPEAKER - CONTROL ROOM	PHILIPS	E.C.	
PHILIPS CSE	PHILIPS - 'CSE' COMMUNICATION SPEAKER - EXAM ROOM	PHILIPS	E.C.	
PHILIPS CY	PHILIPS- 'CY' CONTROL ROOM JUNCTION BOX	PHILIPS	PHILIPS	
PHILIPS ERB	PHILIPS- 'ERB' EQUI-POTENTIAL REFERENCE BAR	PHILIPS	PHILIPS	
PHILIPS FVXL	PHILIPS - 'FVXL' FLEXVISION XL + (2) 27" LCD MONITOR SUSPENSION	PHILIPS	PHILIPS	
PHILIPS IC	PHILIPS- 'IC' INJECTOR ROOM CONSOLE	PHILIPS	PHILIPS	
PHILIPS IH	PHILIPS- 'IH' INTERVENTIONAL HARDWARE	PHILIPS	PHILIPS	
PHILIPS INJ	PHILIPS - 'INJ' MEDRAD UNIVERSAL T-RAIL BRACKET FOR INJECTOR HEAD (MOUNTED ON MAV2)	PHILIPS	PHILIPS	
PHILIPS INT	PHILIPS- 'INT' INTRASIGHT- WORKSTATION	PHILIPS	PHILIPS	
PHILIPS MA	PHILIPS- 'MA' MAINS 40E CABINET	PHILIPS	PHILIPS	
PHILIPS MAV	PHILIPS - 'MAV' MAVIG 2.5m CEILING TRACK 360 W/ RAD SHIELD AND Y LED 1F SURGICAL LIGHT	PHILIPS	PHILIPS	
PHILIPS MB	PHILIPS- 'MB' IMAGE 40E CABINET	PHILIPS	PHILIPS	
PHILIPS ME	PHILIPS- 'ME' CERTERAY IX GENERATOR CABINET	PHILIPS	PHILIPS	
PHILIPS RIC	PHILIPS- 'RIC' INJECTOR REMOTE PANEL	PHILIPS	PHILIPS	
PHILIPS SBO	PHILIPS- 'SBO' SIGNALING BOX OPTION	PHILIPS	E.C.	
PHILIPS SH	PHILIPS- 'SH' SERVICE HUB	PHILIPS	PHILIPS	
PHILIPS SSC	PHILIPS - 'SSC' STEREO SPEAKER - CONTROL RM. (QTY: 2)	PHILIPS	E.C.	
PHILIPS SSE	PHILIPS - 'SSE' STEREO SPEAKER - EXAM ROOM (QTY: 2)	PHILIPS	E.C.	
PHILIPS SYNC	PHILIPS- 'SYNC' SYNCVISION	PHILIPS	PHILIPS	
PHILIPS TUPS	PHILIPS - 'TUPS' TRIPP LITE UPS	PHILIPS	PHILIPS	
PHILIPS TUPS2	PHILIPS - 'TUPS2' TRIPP LITE UPS 2	PHILIPS	PHILIPS	
PHILIPS TV2	PHILIPS - 'TV2' MONITOR SUSPENSION GD50 - (2) 27"/32" MONITORS	PHILIPS	E.C.	
PHILIPS UPS	PHILIPS- 'UPS' SOCOMED- LOW LOAD FLUORO (LLF) UPS	PHILIPS	E.C.	
PHILIPS VIC	PHILIPS- 'VIC' VITALINQ INTERCOM CONSOLE	PHILIPS	E.C.	
PHILIPS XHA	PHILIPS - 'XHA' XPER HEMO APP	PHILIPS	PHILIPS	

LOCATION OF PHILIPS EQUIPMENT TO BE LOCATED BY OWNER.
-'DB'- DOCUMENTATION BOX MOUNTED ON WHEELS
-'AUX 7-9'- AUXILIARY EQUIPMENT ADAPTER
-'FJB1' - FLEX JUNCTION BOX
-'AVOE1'- AUXILIARY VIDEO OUTPUT (POWERED BY MB)

EQUIPMENT LEGEND- GETINGE

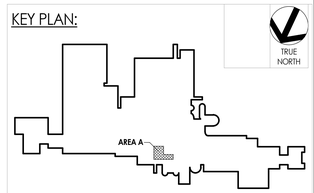
0

KEY #	EQUIP DESCRIPTION	FURNISHED BY	INSTALLED BY	COMMENTS
GETINGE	H12-12 ANESTHESIA BOOM	GETINGE	GETINGE	

EQUIPMENT SCHEDULE NOTES:

1. EQUIPMENT LIST DEVELOPED FOR INFORMATION GIVEN TO THE ARCHITECT BY OWNER.
   A. EQUIPMENT LISTED ON SCHEDULE IS NOT A FULL LIST OF OWNER PROVIDED/ OWNER INSTALLED ITEMS - COORDINATE WITH OWNER EQUIPMENT LIST.
   B. EQUIPMENT LISTED ON SCHEDULE DOES NOT INCLUDE OWNER FURNITURE SUPPLIER ITEMS. REFER TO OWNER FURNITURE VENDOR DRAWINGS ISSUED FOR REFERENCE ONLY.
2. **WALL BLOCKING BY C.M. - ALL WOOD BLOCKING TO BE FIRE RETARDANT TYPE. COORDINATE FINAL LOCATION OF EQUIPMENT WITH OWNER.**
3. **QUANTITIES LISTED ON EQUIPMENT SCHEDULE SHALL BE VERIFIED WITH OWNER BEFORE INSTALLATION OF WOOD BLOCKING AND/OR MEP INFRASTRUCTURE NOTED ON SCHEDULE.**

KEY PLAN:



CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. ARCHITECTURAL ENGINEERING ARCHITECTURE INTERIORS 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD FURAY REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C. 11/14/2025

SHEET INFORMATION

Issued
11/14/2025

Scale
1/2" = 1'-0"

Project Status
FINAL CONSTRUCTION DRAWINGS

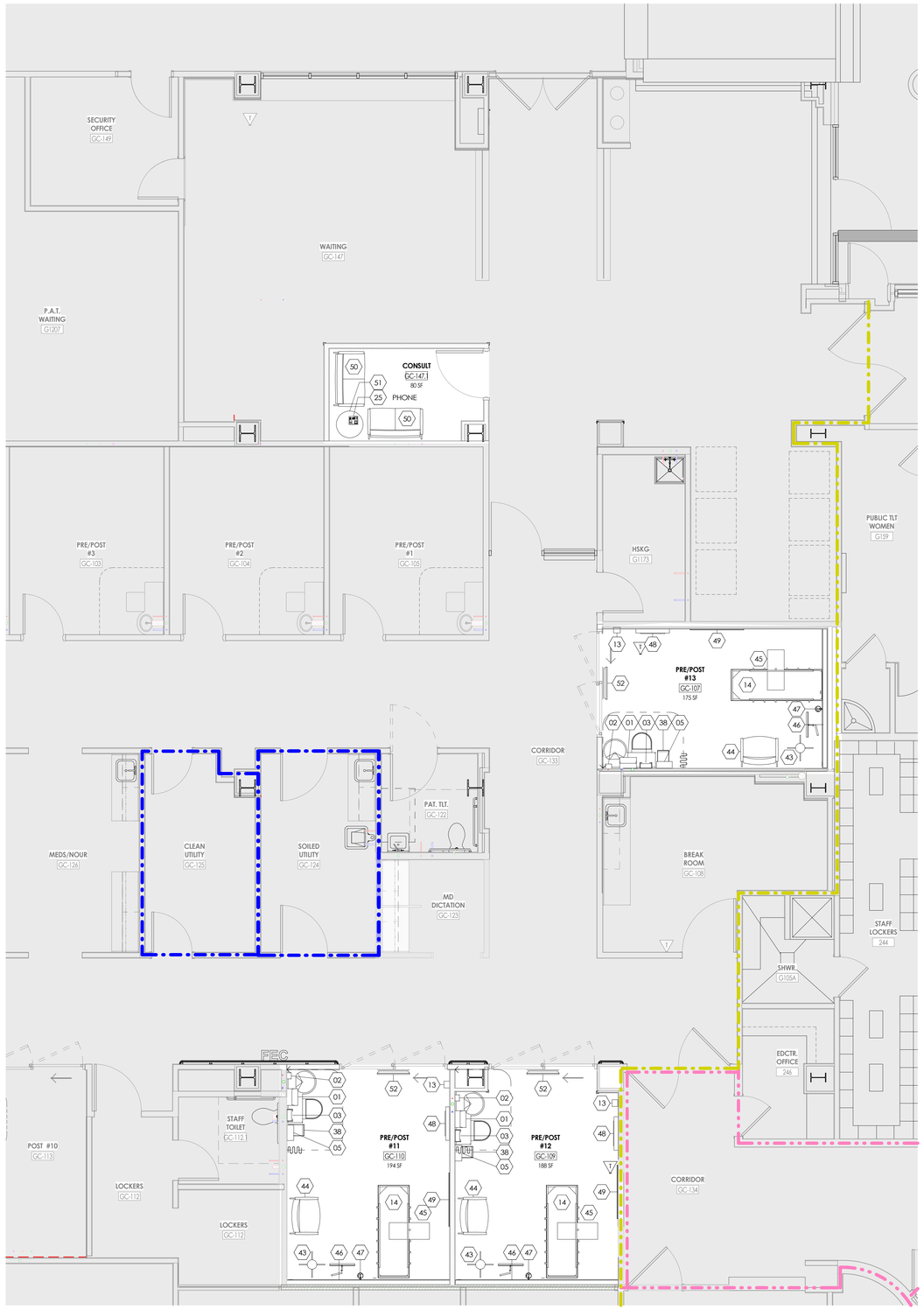
Drawn By
Author

Checked By
Checker

Drawing Title
ENLARGED GROUND FLOOR EQUIPMENT PLAN- AREA A VENDOR

Drawing Number
A700A.1

11/12/2025 11:12:29 AM PROJECT FILES ON ACC



1 A700B

ENLARGED FLOOR EQUIPMENT FLOOR PLAN - AREA B

1/4" = 1'-0"

EQUIPMENT LEGEND

KEY #	EQUIP DESCRIPTION	QUANTITY
GC-107		
PRE/POST #13		
01	PAPER TOWEL DISPENSER	1
02	SOAP DISPENSER	1
03	GLOVE DISPENSER	1
05	SHARPS CONTAINER, WALL MOUNTED	1
13	HAND SANITIZER DISPENSER	1
14	PATIENT STRETCHER	1
38	TRASH CAN	1
43	IV POLE	1
44	CHAIR WITH ARMS- BARIATRIC SIZE	1
45	OVERBED TABLE	1
46	HEADWALL- REFER TO INTERIOR ELEV. & MEP DRAWINGS	1
47	VACUUM CANISTER	1
48	WALL MOUNTED DISPLAY- X-RAY FILM VIEWER	1
49	36"Wx24"H WHITEBOARD	1
52	WALL MOUNTED TELEVISION	1
GC-109		
PRE/POST #12		
01	PAPER TOWEL DISPENSER	1
02	SOAP DISPENSER	1
03	GLOVE DISPENSER	1
05	SHARPS CONTAINER, WALL MOUNTED	1
13	HAND SANITIZER DISPENSER	1
14	PATIENT STRETCHER	1
38	TRASH CAN	1
43	IV POLE	1
44	CHAIR WITH ARMS- BARIATRIC SIZE	1
45	OVERBED TABLE	1
46	HEADWALL- REFER TO INTERIOR ELEV. & MEP DRAWINGS	1
47	VACUUM CANISTER	1
48	WALL MOUNTED DISPLAY- X-RAY FILM VIEWER	1
49	36"Wx24"H WHITEBOARD	1
52	WALL MOUNTED TELEVISION	1
GC-110		
PRE/POST #11		
01	PAPER TOWEL DISPENSER	1
02	SOAP DISPENSER	1
03	GLOVE DISPENSER	1
05	SHARPS CONTAINER, WALL MOUNTED	1
13	HAND SANITIZER DISPENSER	1
14	PATIENT STRETCHER	1
38	TRASH CAN	1
43	IV POLE	1
44	CHAIR WITH ARMS- BARIATRIC SIZE	1
45	OVERBED TABLE	1
46	HEADWALL- REFER TO INTERIOR ELEV. & MEP DRAWINGS	1
47	VACUUM CANISTER	1
48	WALL MOUNTED DISPLAY- X-RAY FILM VIEWER	1
49	36"Wx24"H WHITEBOARD	1
52	WALL MOUNTED TELEVISION	1
GC-119		
CATH LAB		
03	GLOVE DISPENSER	1
04	WIPES DISPENSER	1
05	SHARPS CONTAINER, WALL MOUNTED	1
06	SOILED LINEN HAMPER	1
07	CLOCK, ELAPSED TIME- PRIMEX	1
09	SHARPS CONTAINER ON CART (FLOOR)	1
10	SLIM JIM VENTED 23 GAL WASTE CAN	1
11	MOBILE SUPPLY CART	2
12	MEDICATION DISPOSAL (WALL MOUNTED)	1
13	HAND SANITIZER DISPENSER	1
15	MOBILE LEAD SHIELD	1
16	PATIENT TRANSFER DEVICE BOARD (WALL MOUNTED)	1
17	NURSE WORKSTATION COMPUTER CART W/ POWER (WOW)	1
18	STAINLESS STEEL TABLE- 48" X 24"	1
19	APRON RACK, WALL MOUNTED	1
20	STEP STOOL- STACKABLE W/ CART	1
22	IV POLE	2
23	POINT OF CARE TESTING DEVICE	1
24	EXTERNAL PACEMAKER	1
25	PHONE DESKTOP	1
26	DEFIBULATOR	2
27	CRASH CART W/ DEFIF./ SECTION	1
28	COMPUTER STATION/ CPU	1
29	LARGE MONITOR ON WALL MOUNTED BRACKET	1
30	PYXIS MEDICATION STORAGE- SINGLE	1
32	STAINLESS STEEL TABLE- 36" X 24"	1
34	METABOLITE ANALYZER	1
35	KEYBOARD (LARGE DISPLAY MONITOR)	1
36	SAFE LABEL SYSTEM	1
37	MAQUET CARDIOSAVE HYBRID	1
41	PYXIS 2 DOOR STORAGE CABINET	1
PHILIPS	OPTO MONITOR OPTICAL UNIT (FFR)	1
GC-120		
CONTROL ROOM		
07	CLOCK, ELAPSED TIME- PRIMEX	1
08	WASTE CAN	1
13	HAND SANITIZER DISPENSER	1
25	PHONE DESKTOP	2
31	TASK CHAIR	3
39	NURSE DOCUMENTATION COMPUTER	1
40	PHYSICIAN DOCUMENTATION COMPUTER	1
42	DOCUMENTATION/ EPIC COMPUTER	1
53	PRINTER - UNDER COUNTER ON MOBILE CART	1
GC-147.1		
CONSULT		
25	PHONE DESKTOP	1
50	PATIENT SEATING- LOVESEAT	2
51	END TABLE	1
GC-169		
PATIENT HOLDING		
13	HAND SANITIZER DISPENSER	1
14	PATIENT STRETCHER	1
GC-169A		
SCRUB		
01	PAPER TOWEL DISPENSER	1
02	SOAP DISPENSER	1
03	GLOVE DISPENSER	1
33	SCRUB BRUSH DISPENSER	1
38	TRASH CAN	1

EQUIPMENT SCHEDULE NOTES:

1. EQUIPMENT LIST DEVELOPED FOR INFORMATION GIVEN TO THE ARCHITECT BY OWNER.
   A. EQUIPMENT LISTED ON SCHEDULE IS NOT A FULL LIST OF OWNER PROVIDED/ OWNER INSTALLED ITEMS - COORDINATE WITH OWNER EQUIPMENT LIST.
   B. EQUIPMENT LISTED ON SCHEDULE DOES NOT INCLUDE OWNER FURNITURE SUPPLIER ITEMS. REFER TO OWNER FURNITURE VENDOR DRAWINGS ISSUED FOR REFERENCE ONLY.
2. **WALL BLOCKING BY C.M. - ALL WOOD BLOCKING TO BE FIRE RETARDANT TYPE. COORDINATE FINAL LOCATION OF EQUIPMENT WITH OWNER.**
3. **QUANTITIES LISTED ON EQUIPMENT SCHEDULE SHALL BE VERIFIED WITH OWNER BEFORE INSTALLATION OF WOOD BLOCKING AND/OR MEP INFRASTRUCTURE NOTED ON SCHEDULE.**

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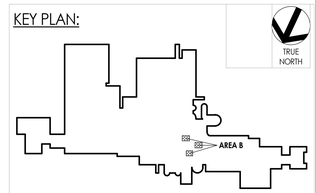

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UNC HEALTH Wayne

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R25.18089.00

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CATH LAB RENOVATION

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PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. — PROFESSIONAL ARCHITECTURAL CORPORATION — 51301 — NORTH CAROLINA — Charlotte, North Carolina

KENNETH ARNOLD RYAN — REGISTERED ARCHITECT — 8924 — NORTH CAROLINA — CHARLOTTE, N.C. — 11/14/2025

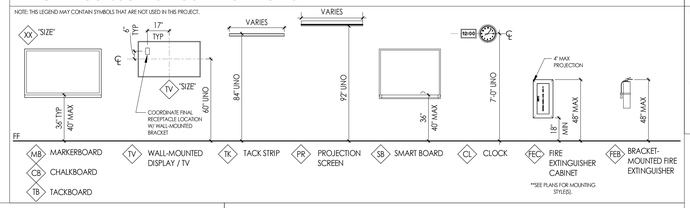
SHEET INFORMATION

Issued: 11/14/2025
Scale: 1/4" = 1'-0"
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: Author
Checked By: Checker
Drawing Title: ENLARGED GROUND FLOOR EQUIPMENT PLAN - AREA B
Drawing Number: A700B

11/12/2025 11:12:32 AM PROJECT FILES ON ACC

TYPICAL ACCESSORIES MOUNTING HEIGHTS

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.



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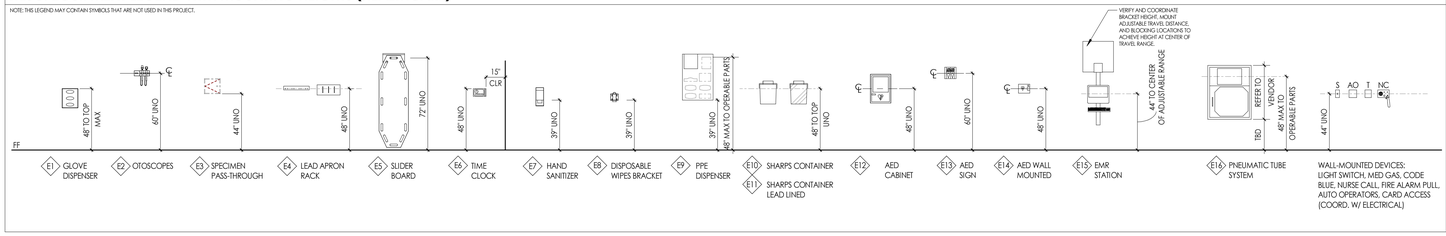
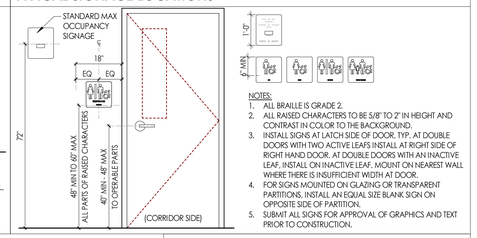
MISC. EQUIPMENT LEGEND WITH MOUNTING HEIGHTS (HEALTHCARE)

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

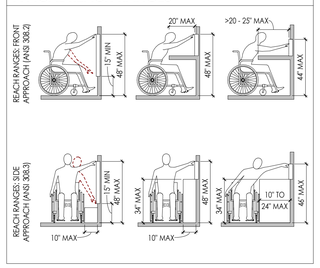


TYPICAL SIGNAGE LOCATIONS



NOTES:
1. ALL BRAILLE IS GRADE 2.
2. ALL RAISED CHARACTERS TO BE 5/8" TO 2" IN HEIGHT AND CONTRAST IN COLOR TO THE BACKGROUND.
3. INSTALL SIGNS AT LATCH SIDE OF DOOR, TYP. AT DOUBLE DOORS WITH TWO ACTIVE LEAFS INSTALL AT RIGHT SIDE OF RIGHT HAND DOOR. AT DOUBLE DOORS WITH AN INACTIVE LEAF, INSTALL ON INACTIVE LEAF. MOUNT ON NEAREST WALL WHERE THERE IS INSUFFICIENT WIDTH AT DOOR.
4. FOR SIGNS MOUNTED ON GLAZING OR TRANSPARENT PARTITIONS, INSTALL AN EQUAL SIZE BLANK SIGN ON OPPOSITE SIDE OF PARTITION.
5. SUBMIT ALL SIGNS FOR APPROVAL OF GRAPHICS AND TEXT PRIOR TO CONSTRUCTION.

TYPICAL REACH RANGES



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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

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COH Number
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PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. REGISTERED ARCHITECTURAL CORPORATION 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD RYAN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C. 11/14/2025

SHEET INFORMATION

Issued
11/14/2025

Scale
As indicated

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
CPL

Checked By
CPL

Drawing Title
TYPICAL FIXTURE AND ACCESSORY LEGENDS

Drawing Number
-
A701

11/12/2025 11:12:32 AM PROJECT FILES ON ACC

CATH LAB

CATH LAB

CONTROL ROOM

SYSTEM COMPONENT ROOM

SCRUB ALCOVE

TYPICAL PRE-POST ROOM

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PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C.
ARCHITECTURAL CORPORATION
51301
NORTH CAROLINA
Charlotte, North Carolina

KENNETH ARNOLD RYAN
REGISTERED ARCHITECT
8924
NORTH CAROLINA
CHARLOTTE, N.C.
11/14/2025

SHEET INFORMATION

Issued
11/14/2025

Scale
-

Project Status
FINAL CONSTRUCTION DRAWINGS

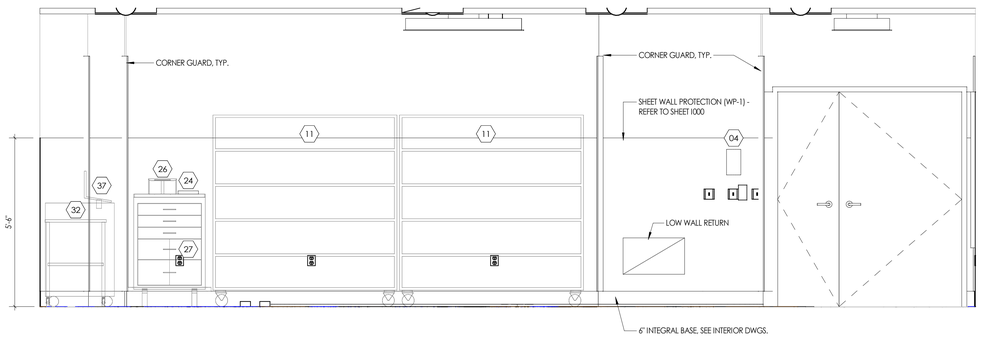
Drawn By
CPL

Checked By
CPL

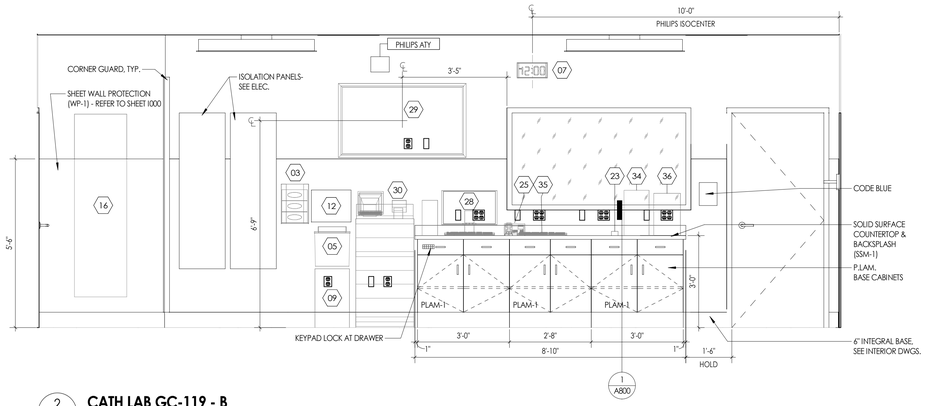
Drawing Title
INTERIOR RENDERINGS

Drawing Number
A702

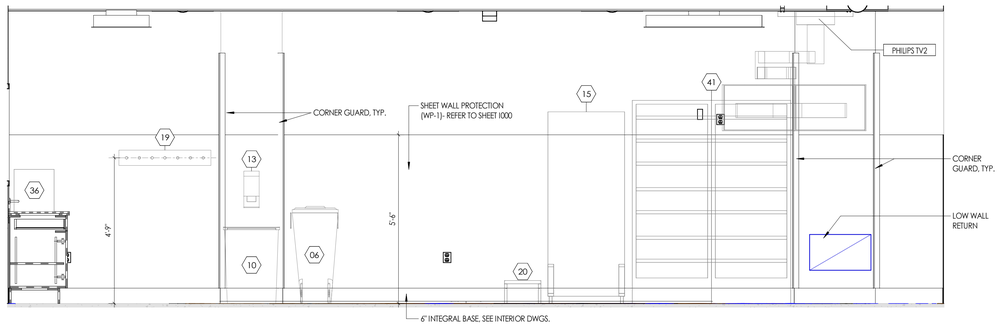
11/12/2025 11:12:33 AM PROJECT FILES ON ACC



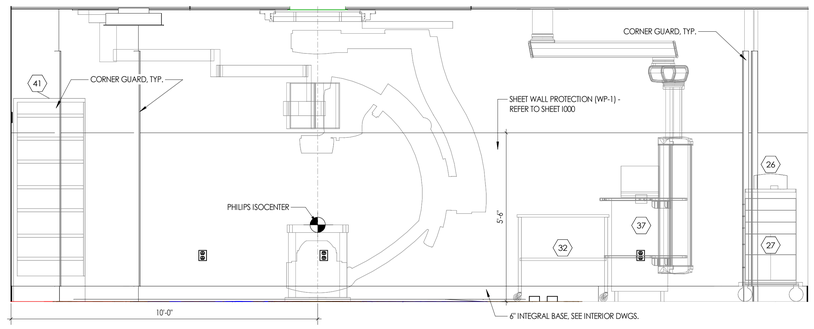
1 A703 **CATH LAB GC-119 - A**
1/2" = 1'-0"



2 A703 **CATH LAB GC-119 - B**
1/2" = 1'-0"



3 A703 **CATH LAB GC-119 - C**
1/2" = 1'-0"



4 A703 **CATH LAB GC-119 - D**
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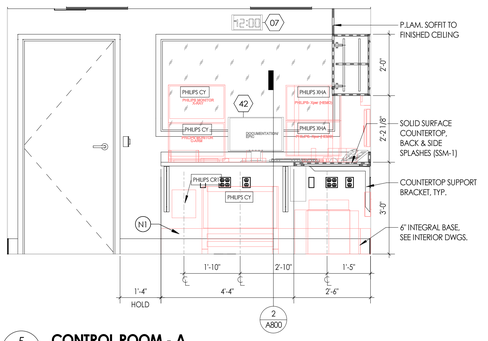
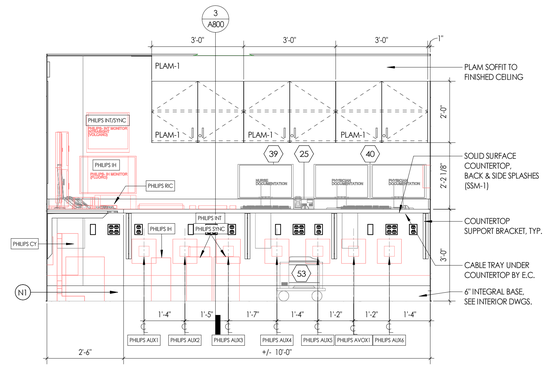
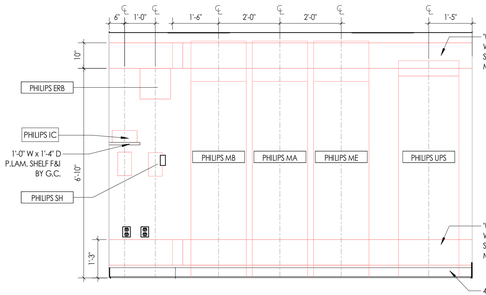


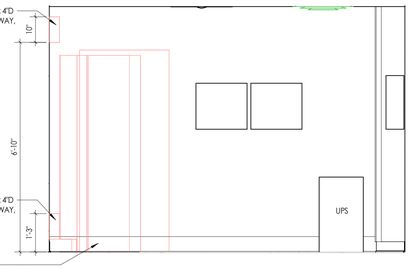
5 A703 **CONTROL ROOM - A**
1/2" = 1'-0"



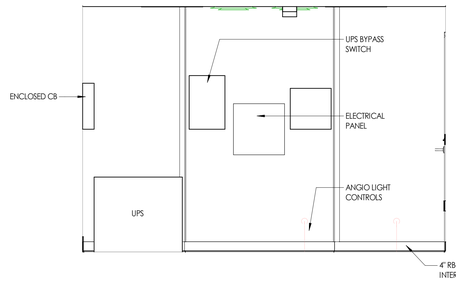
6 A703 **CONTROL ROOM - B**
1/2" = 1'-0"



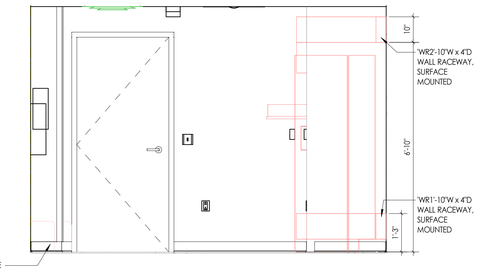
7 A703 **SYSTEM COMPONENT ROOM - A**
1/2" = 1'-0"



8 A703 **SYSTEM COMPONENT ROOM - B**
1/2" = 1'-0"



9 A703 **SYSTEM COMPONENT ROOM - C**
1/2" = 1'-0"



10 A703 **SYSTEM COMPONENT ROOM - D**
1/2" = 1'-0"

GENERAL INTERIOR ELEVATIONS NOTES

1. CONTRACTOR TO PROVIDE ADEQUATE WALL BLOCKING FOR ALL WALL-MOUNTED CABINETS, FIXTURES, ACCESSORIES, AND EQUIPMENT, INCLUDING ITEMS FURNISHED BY OTHERS. REFER TO TYPICAL FIXTURE AND ACCESSORY LEGENDS.
2. REFER TO FINISH SCHEDULE AND COLOR LEGEND FOR FINISHES.
3. REFER TO REFLECTED CEILING PLAN DRAWINGS FOR CEILING HEIGHTS.
4. REFER TO TYPICAL FIXTURE AND ACCESSORY LEGENDS FOR PLUMBING FIXTURE AND ACCESSORIES LEGEND AND MOUNTING HEIGHTS.
5. EQUIPMENT SHOWN ON THESE DOCUMENTS ARE FOR REFERENCE ONLY AND ARE FOR THE COORDINATION OF MEP INFRASTRUCTURE TO OPERATE ITEMS UNDER THIS SCOPE.
6. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO REFER TO OWNER FURNISHED EQUIPMENT DRAWINGS AND SUBMITTALS FOR FINAL COORDINATION AND INSTALLATION REQUIREMENTS INCLUDING BUT NOT LIMITED TO: DIMENSIONS AND LOCATIONS OF MEP CONNECTION LOCATIONS.
7. ALL FURNITURE IS PROVIDED BY OWNER UNLESS NOTED OTHERWISE.
8. REFER TO I SERIES DRAWINGS FOR WALL PROTECTION INFORMATION.

INTERIOR ELEVATION KEYED NOTES

N1 WALL MOUNTED HORIZONTAL RACEWAY, SURFACE MOUNTED. COORDINATE FINAL LOCATION IN THE FIELD. PAINT RACEWAY TO MATCH ADJACENT WALL COLOR.

ABBREVIATION LEGEND (HEALTHCARE)

CABLE TELEVISION	TV
CARD READER	CR
CODE BLUE BUTTON	CB
ELECTRICAL OUTLET	E
FIRE ALARM AND STROBE	FAS
FIRE ALARM PULL STATION	F
FINISHED END PANEL	FE
FLOOR DRAIN	FL
LIGHT SWITCH	S
MEDICAL AIR	A
MODULAR CASEWORK	MCW
MEDICAL EQUIPMENT	ME
NURSE CALL	NC
NURSE LIGHT	NL
OXYGEN	O
TELEPHONE/DATA DROP	T/D
TELEPHONE DROP	W
TELEMETRY	T
THERMOSTAT	TH
VACUUM	V
VACUUM SLIDE	VS

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PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. ARCHITECTURAL CORPORATION 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD RUNY REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C. 11/14/2025

SHEET INFORMATION

Issued
11/14/2025

Scale
As indicated

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
CPL

Checked By
CPL

Drawing Title
INTERIOR ELEVATIONS

Drawing Number
-
A703

11/12/2025 11:12:39 AM PROJECT FILES ON ACC

GENERAL INTERIOR ELEVATIONS NOTES

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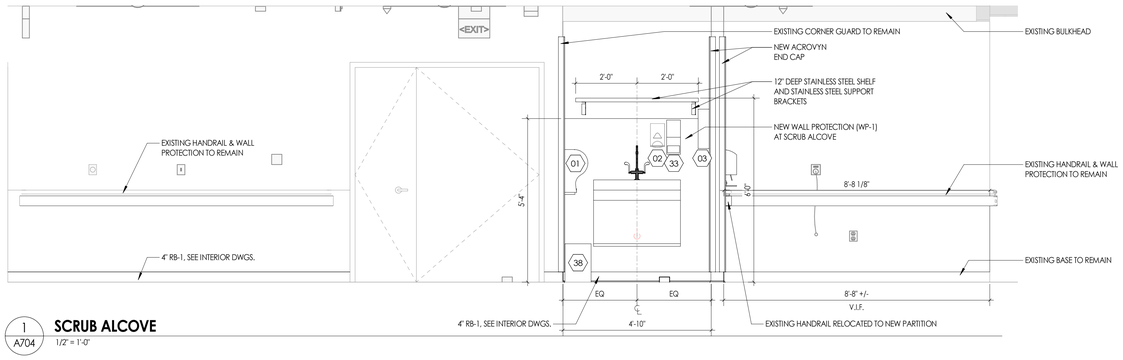
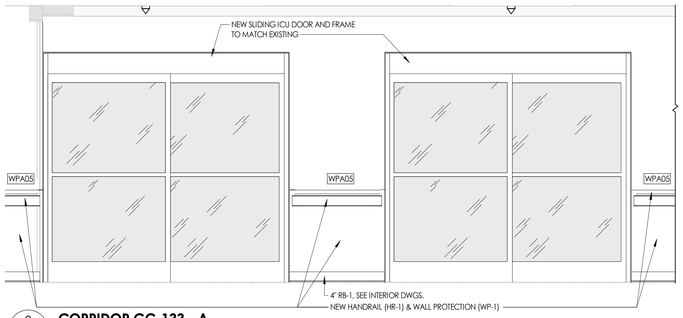
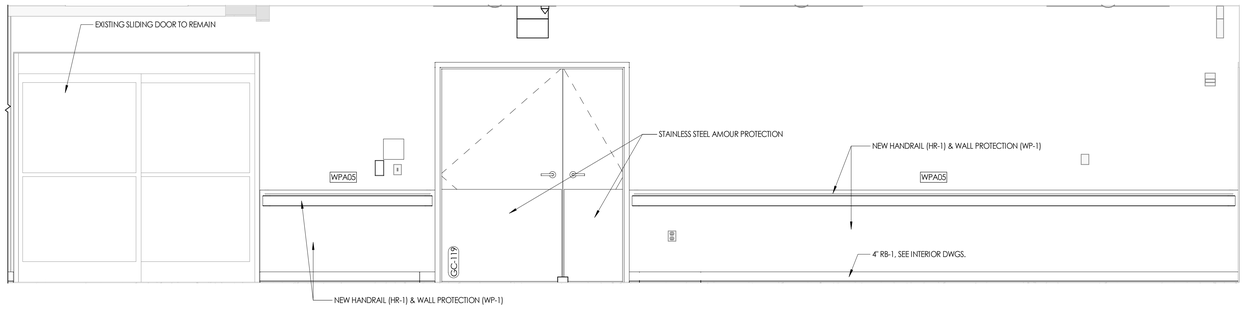
FIRE ALARM AND STROBE	FAS
FIRE ALARM PULL STATION	F
FINISHED END PANEL	FE
FLOOR DRAIN	FL
LIGHT SWITCH	S
MEDICAL AIR	A
MODULAR CASEWORK	MCW
MEDICAL EQUIPMENT	ME
NURSE CALL	NC
NURSE LIGHT	NL
OXYGEN	O
TELEPHONE/DATA DROP	T/D
TELEPHONE DROP	W
TELEMETRY	T
THERMOSTAT	TH
VACUUM	V
VACUUM SLIDE	VS



1 A704 **SCRUB ALCOVE**
1/2" = 1'-0"



2 A704 **CORRIDOR GC-133 - A**
1/2" = 1'-0"



3 A704 **CORRIDOR GC-137**
1/2" = 1'-0"

4 A704 **CORRIDOR GC-137**
1/2" = 1'-0"

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UNC HEALTH Wayne

DEVITA Engineering Great Ideas

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

PROJECT ISSUE & REVISION SCHEDULE

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PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. PROFESSIONAL ARCHITECTURAL CORPORATION 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD RYAN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N.C. 11/14/2025

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FINAL CONSTRUCTION DRAWINGS

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INTERIOR ELEVATIONS

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A704

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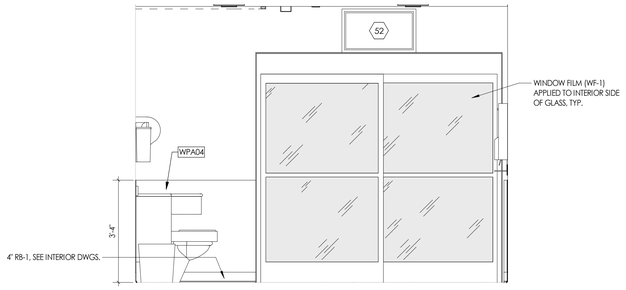
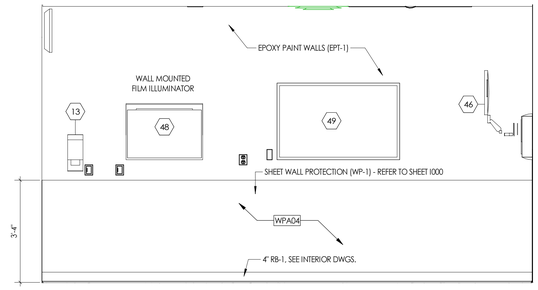
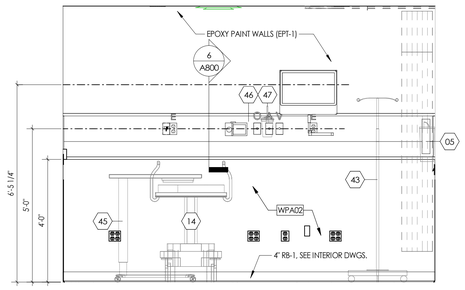


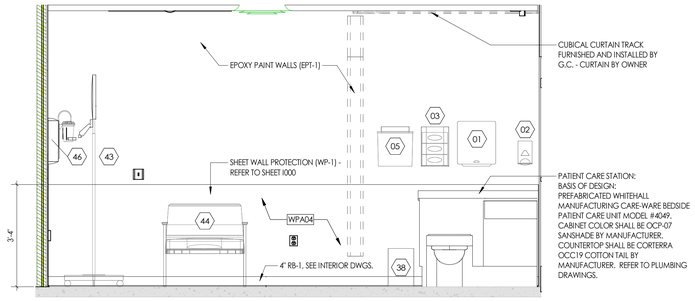
1 A705 **TYPICAL PRE / POST BAY**
1/2" = 1'-0"



2 A705 **TYPICAL PRE / POST BAY**
1/2" = 1'-0"



3 A705 **TYPICAL PRE / POST BAY**
1/2" = 1'-0"



4 A705 **TYPICAL PRE / POST BAY**
1/2" = 1'-0"

GENERAL INTERIOR ELEVATIONS NOTES

1. CONTRACTOR TO PROVIDE ADEQUATE WALL BLOCKING FOR ALL WALL-MOUNTED CABINETS, FIXTURES, ACCESSORIES, AND EQUIPMENT, INCLUDING ITEMS FURNISHED BY OTHERS. REFER TO TYPICAL FIXTURE AND ACCESSORY LEGENDS.
2. REFER TO FINISH SCHEDULE AND COLOR LEGEND FOR FINISHES.
3. REFER TO REFLECTED CEILING PLAN DRAWINGS FOR CEILING HEIGHTS.
4. REFER TO TYPICAL FIXTURE AND ACCESSORY LEGENDS FOR PLUMBING FIXTURE AND ACCESSORIES LEGEND AND MOUNTING HEIGHTS.
5. EQUIPMENT SHOWN ON THESE DOCUMENTS ARE FOR REFERENCE ONLY AND ARE FOR THE COORDINATION OF MEP INFRASTRUCTURE TO OPERATE ITEMS UNDER THIS SCOPE.
6. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO REFER TO OWNER FURNISHED EQUIPMENT DRAWINGS AND SUBMITTALS FOR FINAL COORDINATION AND INSTALLATION REQUIREMENTS INCLUDING BUT NOT LIMITED TO: DIMENSIONS AND LOCATIONS OF MEP CONNECTION LOCATIONS.
7. ALL FURNITURE IS PROVIDED BY OWNER UNLESS NOTED OTHERWISE.
8. REFER TO I SERIES DRAWINGS FOR WALL PROTECTION INFORMATION.

INTERIOR ELEVATION KEYED NOTES

N1 WALL MOUNTED HORIZONTAL RACEWAY, SURFACE MOUNTED. COORDINATE FINAL LOCATION IN THE FIELD. PAINT RACEWAY TO MATCH ADJACENT WALL COLOR.

ABBREVIATION LEGEND (HEALTHCARE)

CABLE TELEVISION	TV
CARD READER	CR
CODE BLUE BUTTON	CB
ELECTRICAL OUTLET	E
FIRE ALARM AND STROBE	FAS
FIRE ALARM PULL STATION	F
FINISHED END PANEL	FE
FLOOR DRAIN	FL
LIGHT SWITCH	S
MEDICAL AIR	A
MODULAR CASEWORK	MCW
MEDICAL EQUIPMENT	ME
NURSE CALL	NC
NURSE LIGHT	NL
OXYGEN	O
TELEPHONE/DATA DROP	T/D
TELEPHONE DROP	W
TELEMETRY	T
THERMOSTAT	TH
VACUUM	V
VACUUM SLIDE	VS

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UNC HEALTH Wayne

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CON Number
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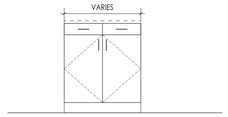
BASE CASEWORK/MILLWORK TYPES

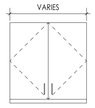
NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.



222
DOUBLE DOOR
& DRAWER

WALL CASEWORK/MILLWORK TYPES

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.



302
DOUBLE HINGED
FLUSH DOOR
3 / A800

CASEWORK/MILLWORK GENERAL NOTES

1. FILLER PANELS & SCRIBING
   A. PROVIDE FULL FINISHED END PANELS ON ALL EXPOSED CASEWORK/MILLWORK.
   B. PROVIDE FILLER PANEL WHERE CASEWORK/MILLWORK MEETS WALL, SCRIBED TO WALL SURFACE.
   C. PROVIDE CLEAR SILICONE CAULKING BETWEEN COUNTERTOP, BACKSPLASH AND SIDESPLASHES, TYP.
   D. SCRIBE ALL COUNTERTOPS TO ADJACENT WALL SURFACE WHERE APPLICABLE.
2. FINISH MATERIALS
   A. PROVIDE FINAL FINISH TO MATCH ADJACENT CASEWORK/MILLWORK FOR ALL EXPOSED FACE OF LIGHTING VALENCES, FASCIA, & NAILERS INDICATED IN DETAILS.
   B. PROVIDE FINAL FINISH MATERIALS ON ALL EXPOSED AND SEMI-EXPOSED INTERIOR AND EXTERIOR FACES.
   C. REFER TO FINISH SCHEDULE & INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON CASEWORK/MILLWORK FINISHES.
3. ADJUSTABLE SHELVING
   A. SHELVING TO BE 3/4" THICK, MIN. UP TO 24" SPAN. FOR SPANS OVER 24", SHELVING TO BE 1" THICK, MIN.
   B. ALL SHELVES TO BE MAXIMUM DEPTH OF UNIT, UNO, LESS CONSTRUCTION TOLERANCE TO ALLOW FOR OPENING/CLOSING OF DOORS.
   C. PROVIDE 2 ADJUSTABLE SHELVES PER BASE & WALL UNIT, UNO, AND 4-5 ADJUSTABLE SHELVES PER TALL UNIT (REFER TO DETAIL).
   D. PROVIDE RECESSED SHELF STANDARDS & CLIPS/PINS FOR ALL ADJUSTABLE SHELVING. **PINS TO BE METAL SPOON-REST STYLE. PLASTIC CLIPS NOT PERMITTED.**
4. CASEWORK/MILLWORK ACCESSORIES:
   A. PROVIDE SUPPORT BRACKETS AT WORK SURFACES, 48" MAX BETWEEN BRACKETS UNLESS NOTED OTHERWISE.
   B. GROMMETS & WIRING CUTOUTS TO BE INSTALLED IN FIELD AND COORDINATED WITH IT OR FOOD SERVICE EQUIPMENT, AS APPLICABLE.
      1. AT WORKSTATIONS: PROVIDE 2" DIAMETER BLACK PLASTIC GROMMET, UNO
      2. AT TRASH CABINETS: PROVIDE 10" DIAMETER STAINLESS STEEL GROMMET, UNO
5. **HARDWARE**
   A. REFER TO SPECIFICATIONS FOR DOOR/DRAWER HARDWARE SELECTIONS.
6. WALL CASEWORK/MILLWORK ADDITIONAL FEATURES:
   A. PROVIDE VALANCE COVER AT ALL UNDER CABINET LIGHTING WHEREVER UNDER CABINET LIGHTING IS REQUIRED.
   B. PROVIDE SLOPED TOP ON WALL CABINETS WHERE INDICATED.
7. COUNTERTOPS:
   A. FOR SOLID SURFACE COUNTERTOPS: PROVIDE 1/2" SOLID SURFACE MATERIAL WITH WATERFALL EDGE ON 3/4" PLYWOOD SUBSTRATE WITH 1/8" EASED EDGES AND INTEGRAL BACKSPLASH AND SIDESPLASH(ES), WHERE APPLICABLE.
   B. FOR LAMINATE COUNTERTOPS: PROVIDE TWO LAYERS OF 3/4" PLYWOOD SUBSTRATE WITH LAMINATE ON ALL EXPOSED SIDES. 3MM EDGE BANDING, AND BACKSPLASH AND SIDESPLASH(ES) WHERE APPLICABLE.
8. CONTRACTOR TO PROVIDE ADEQUATE WALL BLOCKING FOR ALL WALL-MOUNTED CASEWORK/MILLWORK, FIXTURES, ACCESSORIES, AND EQUIPMENT, INCLUDING ITEMS FURNISHED BY OTHERS. ANYTHING REQUIRED TO SUPPORT THE WEIGHT OF A PERSON SHALL USE FIRE-RETARDANT TREATED WOOD. LIGHTER WEIGHT ITEMS MAY USE STRAPPING. **OR. REFER TO A400 SERIES FOR BLOCKING DETAILS.**
9. CONTRACTOR TO VERIFY THAT SINK CLEARANCES MEET ADA MINIMUM REQUIREMENTS.
10. SERVICE ACCESS PANELS ARE TO BE SEGMENTED AT 3'-0" MAXIMUM INTERVALS.

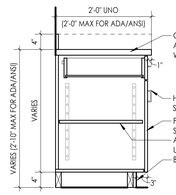
11. CAULK JOINTS BETWEEN WALL AND CABINET SIDES AND JOINT BETWEEN WALL AND BACKSPLASH & COUNTER TOP WITH CLEAR SILICON SEALANT PER SPEC SECTION 079200.

CASEWORK/MILLWORK LEGEND

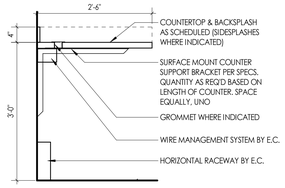
SPECIAL DESIGNATIONS:

C	CORROSIVES STORAGE
E	ELECTRICAL CHASE (8/A802)
F	FLAMMABLES STORAGE
G	GLASS DOORS
H	FUME HOOD BASE CABINET
L	LOUVER IN DOOR
M	MOBILE
P	PIPE CHASE (9/A802)
V	VACUUM

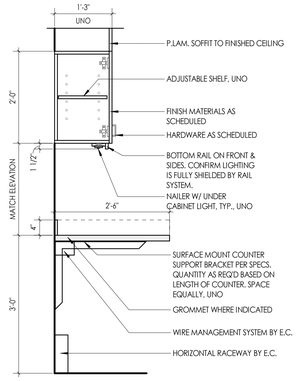
NOTE: REFER TO INTERIOR ELEVATIONS FOR HEIGHT TO TOP OF COUNTER



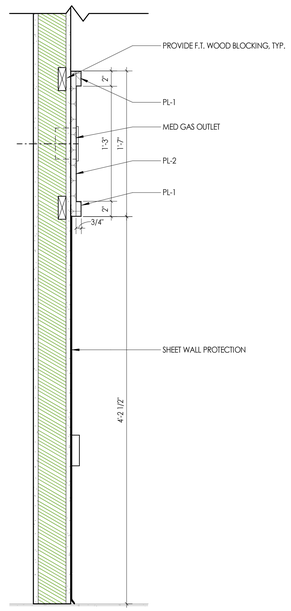
1 / A800 **210 - 211 - 212 - 222 - BASE - DOOR(S) + DRAWER**
3/4" = 1'-0"



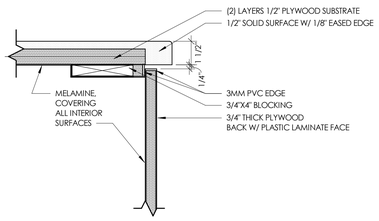
2 / A800 **290D - COUNTER (BRACKET EXPOSED)**
3/4" = 1'-0"



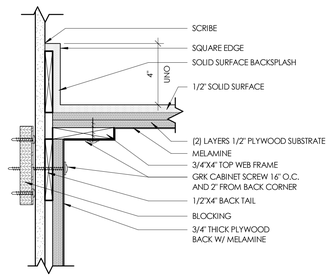
3 / A800 **301(G) - 302(G)- WALL - HINGED FLUSH DOOR**
3/4" = 1'-0"



6 / A800 **DETAIL AT MED GAS OUTLET**
1 1/2" = 1'-0"



4 / A800 **SSM COUNTER ENLARGED DETAIL, TYP.1**
3" = 1'-0"



5 / A800 **ENLARGED SSM COUNTER BACKSPLASH1**
3" = 1'-0"

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UNC HEALTH Wayne

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TYPICAL CASEWORK TYPES

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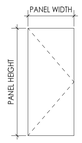
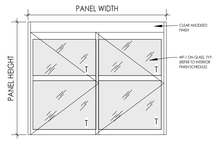


PNL-F-WD

DOOR PANEL TYPES

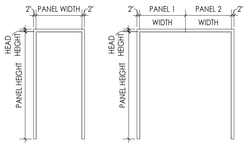
1/4" = 1'-0"



PNL-SL2-ALUM
DOUBLE MANUAL SLIDING
*BASIS OF DESIGN- HORTON AUTOMATICS - SERIES 310 MANUAL ICU SLIDE DOOR: TYPE SX-SO, SELF-CLOSING DOOR SYSTEM

SPECIALTY DOOR TYPES

1/4" = 1'-0"

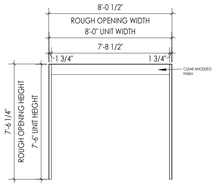


FRM-**00**-VARIES (SINGLE)

FRM-**00**-HML (DOUBLE)

HOLLOW METAL FRAME TYPES

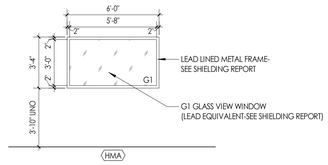
1/4" = 1'-0"



FRM-**SL2**-ALUM
(SLIDING)
*BASIS OF DESIGN- HORTON AUTOMATICS - SERIES 310 MANUAL ICU SLIDE DOOR: TYPE SX-SO, SELF-CLOSING DOOR SYSTEM

ALUMINUM FRAME TYPES

1/4" = 1'-0"



HOLLOW METAL WINDOW TYPES

1/4" = 1'-0"

DOOR AND FRAME NOTES

1. ALL FRAMES ARE TO RECEIVE FULL PERIMETER SEALANT. INTERIOR AND EXTERIOR
2. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO BE VERIFIED IN FIELD AND COORDINATED WITH APPROVED SHOP DRAWINGS PRIOR TO FABRICATION.
3. **SEE SCHEDULE FOR DOOR & FRAME MATERIAL**
4. ALL WOOD DOORS SHALL RECIEVE TRANSPARENT STAIN FINISH.
5. ALL STEEL HOLLOW METAL FRAMES SHALL BE PAINTED.
6. CONTRACTOR TO VERIFY FRAME SIZE WHERE NEW DOORS ARE TO BE INSTALLED INTO EXISTING OPENINGS.
7. SEE DEMOLITION PLAN FOR ALL RELOCATED DOORS, HARDWARE AND HOLLOW METAL FRAMES.
8. PROVIDE FLOOR FINISH TRANSITION DETAILS AT ALL DOOR LOCATIONS WHERE DISSIMILAR FINISHES ABUT. REFER TO DETAILS.
9. WHERE PROTECTION PLATES ARE IDENTIFIED ON DOOR TYPES, PROVIDE AS FOLLOWS:
   A. ON BOTH SIDES OF INTERIOR DOORS (UNLESS NOTES OTHERWISE)
   B. ON INTERIOR SIDE OF EXTERIOR DOORS.
10. HARDWARE SET SCHEDULE REFER TO DOOR HARDWARE SPECIFICATION SECTION.
11. ALL GLAZING IN HAZARDOUS LOCATIONS IDENTIFIED IN IBC SECTION 2406.4 SHALL (IN ADDITION TO BEING FIRE RATED WHERE REQUIRED) BE SAFETY GLAZING. SUCH GLAZING SHALL BE LABELED IN ACCORDANCE WITH IBC SECTION 2406.3
12. ALL DIMENSIONS ARE OVERALL FRAME DIMENSIONS. SIZE ROUGH FRAMED OPENINGS ACCORDINGLY.
13. GLASS TYPES ARE IDENTIFIED ON BOTTOM PORTION OF DOOR SCHEDULE.
14. SEALANT TYPICAL AT ALL JOINTS OF ALL ASSEMBLIES.
15. ANY STOREFRONT SYSTEM WIDER THAN 6'-6" TO RECIEVE DEFLECTION TRACK AT HEAD.
16. PANELS IN GLAZING ASSEMBLIES SHALL BE MARKED "CPSC 16 CRF P 1201" OR "ANSI Z97.1" AS APPROPRIATE.
17. ALL DOORS AND DOOR CLOSERS ARE TO COMPLY WITH ADA 404.2.8.1 AND IBC 2018 1010.1.3.

DOOR AND FRAME SCHEDULE LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

DOOR OR FRAME MATERIAL

ACR	ACROVYN DOOR
ACR-L	ACROVYN LEAD LINED DOOR
ALUM	ALUMINUM
FRP	FIBERGLASS REINFORCED POLYMER
HM	HOLLOW METAL
HM-L	HOLLOW METAL LEAD LINED
IHM	INSULATED HOLLOW METAL
WD	WOOD
WD-L	WOOD LEAD LINED

DOOR OR FRAME FINISH

PTD	PAINT
ST	WOOD STAIN
AN	CLEAR ANODIZED
DB	DARK BRONZE (ANODIZED)
SS	STAINLESS STEEL
BE	BAKED ENAMEL

GLAZING TYPES

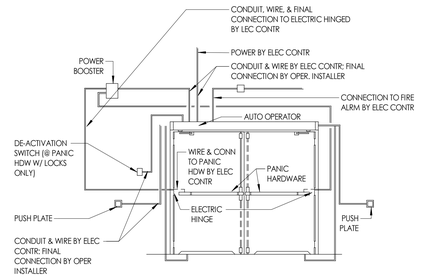
TYPE MARK	GLAZING DESCRIPTION
G1	SHIELDED SAFETY GLASS
T	1/4" CLEAR TEMPERED SAFETY GLASS

DOOR SCHEDULE

DOOR NUMBER	DOOR PANEL: PANEL TYPE: PANEL 1	PANEL TYPE: PANEL 2	SINGLE PANEL DIMENSIONS: WIDTH: PANEL 1	WIDTH: PANEL 2	HEIGHT: PANELS 1 & 2	TOTAL PANEL DIMENSIONS: WIDTH	HEIGHT	THICKNESS	DOOR PANEL FINISH: SIDE 1 / SIDE 2	DOOR FRAME: FRAME TYPE	FRAME FINISH	DETAILS: HEAD DTL	JAMB DTL	DOOR: FIRE RATING (MIN)	SHIELDING	HW SET	GLAZING TYPE	COMMENTS
LVL 1																		
GC-107	SL2 - ALUM	SL2 - ALUM	SEE MFR R.	SEE MFR R.	SEE MFR R.	SEE MFR R.	SEE MFR R.	SEE MFR R.	ALUM- AN	FRM-SL2-ALUM	ALUM- AN	H2	J2			02	T	MANUAL SLIDING DOOR. WF-1 PRIVACY FILM, CLEAR ANODIZED FRAME
GC-109	SL2 - ALUM	SL2 - ALUM	SEE MFR R.	SEE MFR R.	SEE MFR R.	SEE MFR R.	SEE MFR R.	SEE MFR R.	ALUM- AN	FRM-SL2-ALUM	ALUM-AN	H2	J2			02	T	MANUAL SLIDING DOOR. WF-1 PRIVACY FILM, CLEAR ANODIZED FRAME
GC-110	SL2 - ALUM	SL2 - ALUM	SEE MFR R.	SEE MFR R.	SEE MFR R.	SEE MFR R.	SEE MFR R.	SEE MFR R.	ALUM- AN	FRM-SL2-ALUM	ALUM- AN	H2	J2			02	T	MANUAL SLIDING DOOR. WF-1 PRIVACY FILM, CLEAR ANODIZED FRAME
GC-119	PNL-F-WD	PNL-F-WD	4'-0"	2'-0"	7'-0"	6'-0"	7'-0"	0'-1 3/4"	MATCH EXIST.	FRM-00-HML	EPT-2	H3	J3		X	03	-	AUTO OPENER, CLOSER W/ PUSH BUTTON CONTROLS, LEAD LINED DOORS AND FRAME; REFER TO PHYSICIST REPORT. HALF-HEIGHT STAINLESS STEEL ARMOR PLATE.
GC-120	PNL-F-WD		3'-0"		7'-0"	3'-0"	7'-0"	0'-1 3/4"	MATCH EXIST.	FRM-00-HML	EPT-2	H3	J3		X	04	-	PASSAGE LOCKSET; LEAD LINED DOOR AND FRAME. REFER TO PHYSICIST REPORT
GC-121	PNL-F-WD		3'-0"		7'-0"	3'-0"	7'-0"	0'-1 3/4"	MATCH EXIST.	FRM-00-HM	EPT-2	H1	J1			05	-	CARD READER
GC-147	PNL-F-WD		3'-6"		7'-0"	3'-6"	7'-0"	0'-1 3/4"	MATCH EXIST.	FRM-00-HM	EPT-2	H1	J1			06	-	PRIVACY LOCK W/ INDICATOR
GC-120A	PNL-F-WD		3'-0"		7'-0"	3'-0"	7'-0"	0'-1 3/4"	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING	EXISTING			01	-	EXISTING DOOR/FRAME. NEW CARD READER

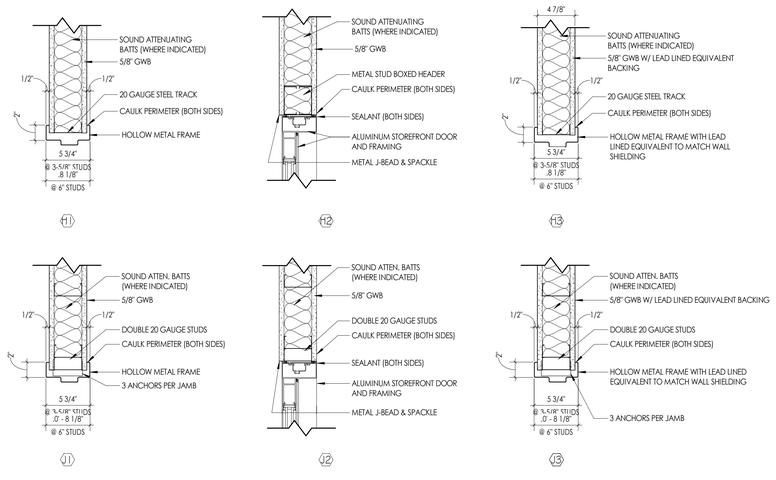
WINDOW SCHEDULE

WINDOW NUMBER	HEIGHT	WIDTH	SILL HEIGHT	FINISH & MATERIAL	GLAZING TYPE	SHIELDING	REMARKS
HMA	3'-4"	6'-0"	3'-10"	FRM-HM1	G1	X	LEAD LINED



1 A900 **SCHEMATIC AUTOMATED DOOR OPERATOR ASSEMBLIES**

1/4" = 1'-0"



TYPICAL HOLLOW METAL FRAME IN TYPICAL PARTITION

AUTOMATIC SLIDING DOOR IN TYPICAL PARTITION

TYPICAL LEAD LINED HOLLOW METAL FRAME IN LEAD LINED PARTITION

2 A900 **DOOR HEAD & JAMB DETAILS**

1 1/2" = 1'-0"

3 A900 **WINDOW HEAD & JAMB DETAILS**

1 1/2" = 1'-0"

DOOR HARDWARE SCHEDULE:

HARDWARE GROUP NO. 01:

1 EA CONT. HINGE
1 EA ELECTRIC STRIKE
1 EA CLASSROOM LOCKSET
1 EA SURFACE CLOSER
1 EA KICK PLATE 10"
1 EA KICK PLATE 10"
1 EA WALL STOP
1 EA GASKETING
1 EA POWER SUPPLY

CARD READER- WORK OF DIVISION 28
PROVIDE FACTORY POINT TO POINT WIRING DIAGRAMS
PROVIDE RISER DIAGRAMS

HARDWARE GROUP NO. 02:

MANUAL SLIDE DOOR:
- HORTON SERIES 310 MANUAL ICU SLIDE DOOR- TYPE SX-SO, SELF-CLOSING DOOR SYSTEM
- BREAKOUT TO 90 DEG. AT ANY POINT OF TRAVEL AFTER POSITIVE LATCHES ARE RELASED

HARDWARE GROUP NO. 03:

2 EA PIVOT SET
2 EA INTERMEDIATE PIVOT
2 EA PUSH PLATE
2 EA PULL PLATE
2 EA OH STOP
2 EA SURFACE AUTO OPERATOR
2 EA ACTUATOR, PUSH BUTTON
2 EA KICK PLATE 10" STAINLESS STL.
2 EA PROTECTION PLATE 40" STAINLESS STL.
1 EA GASKETING

HARDWARE GROUP NO. 04:

1 EA CONT. HINGE
1 EA PUSH/PULL LATCH
1 EA CYLINDER
1 EA SURFACE CLOSER
1 EA KICK PLATE 10"
1 EA KICK PLATE 10"
1 EA WALL STOP
1 EA GASKETING

HARDWARE GROUP NO. 05:

1 EA CONT. HINGE
1 EA ELECTRIC STRIKE
1 EA STOREROOM LOCKSET
1 EA SURFACE CLOSER
1 EA KICK PLATE 10"
1 EA KICK PLATE 10"
1 EA WALL STOP
1 EA GASKETING
1 EA POWER SUPPLY

CARD READER- WORK OF DIVISION 28
PROVIDE FACTORY POINT TO POINT WIRING DIAGRAMS
PROVIDE RISER DIAGRAMS

HARDWARE GROUP NO. 06:

1 EA CONT. HINGE
1 EA PRIVACY SET WITH 'IN-USE' INDICATOR
1 EA KICK PLATE 10"
1 EA KICK PLATE 10"
1 EA WALL STOP
1 EA GASKETING
2 EA COAT AND HAT HOOK

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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

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11/14/2025

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Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
CPL

Checked By
CPL

Drawing Title
DOOR PANELS, FRAME TYPES, WINDOW TYPES & SCHEDULES

Drawing Number
-
A900

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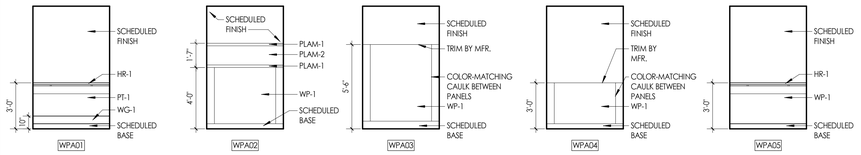
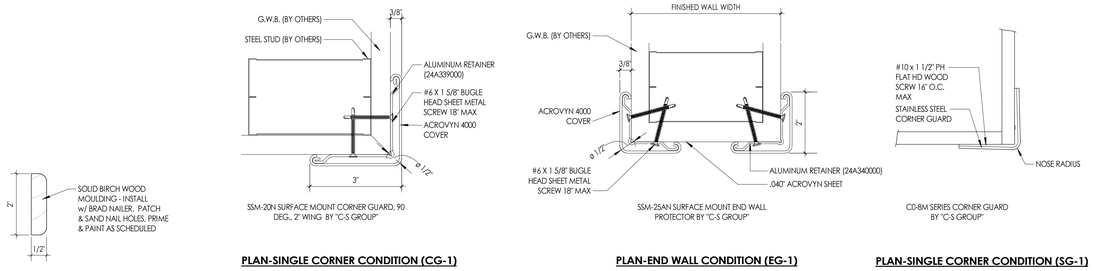
TYPICAL WALL PROTECTION TYPES:

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



WALL PROTECTION GENERAL NOTES

1. DO NOT INSTALL HANDRAILS ON WALLS LESS THAN 1'-6" WIDE OR BEHIND DOORS.
2. DO NOT INSTALL WALL GUARDS ON WALLS LESS THAN 0'-6" WIDE OR BEHIND DOORS.
3. AREAS WITHOUT WALL PROTECTION NOTES SHALL NOT RECEIVE WALL PROTECTION. ALL CORNER GUARDS SHOULD BE INSTALLED FROM TOP OF FINISHED BASE TO 7'-2" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.
4. WHERE WALLS RECEIVE NEW WALL PROTECTION, WALL PROTECTION SHALL RUN UNDERNEATH WINDOW SILLS, UNLESS NOTED OTHERWISE.
5. WHERE WALLS RECEIVE NEW WALL PROTECTION, WALL PROTECTION SHALL RUN UNDERNEATH OPEN COUNTER AREAS, UNLESS NOTED OTHERWISE.
6. ALL WALL PROTECTION SPECIFIED TO RECEIVE CAULK SHALL RECEIVE COLOR MATCHING OR CLEAR CAULK.



SSM-20N SURFACE MOUNT CORNER GUARD, 90 DEG., 2" WING BY "C-S GROUP"

PLAN-SINGLE CORNER CONDITION (CG-1)

SSM-25AN SURFACE MOUNT END WALL PROTECTOR BY "C-S GROUP"

PLAN-END WALL CONDITION (EG-1)

CD-8M SERIES CORNER GUARD BY "C-S GROUP"

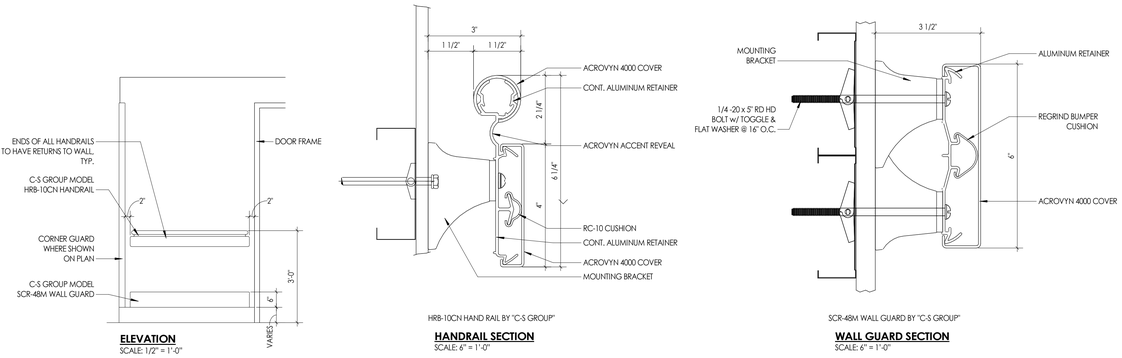
PLAN-SINGLE CORNER CONDITION (SG-1)

1 / I000 TRIM PROFILE

6" = 1'-0"

2 / I000 CORNER GUARD DETAILS

6" = 1'-0"



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

HRB-10CN HAND RAIL BY "C-S GROUP"

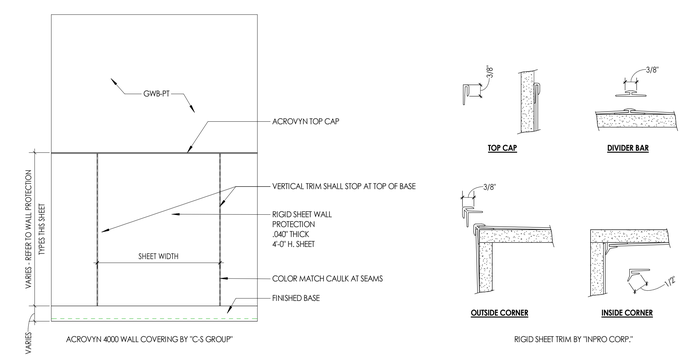
HANDRAIL SECTION
SCALE: 6" = 1'-0"

SCR-48M WALL GUARD BY "C-S GROUP"

WALL GUARD SECTION
SCALE: 6" = 1'-0"

3 / I000 HANRAIL / WALL GUARD DETAILS

1/2" = 1'-0"

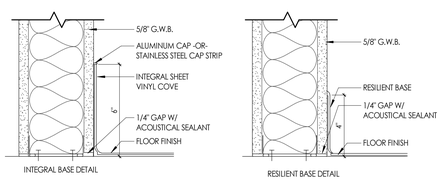


ACROVYN 4000 WALL COVERING BY "C-S GROUP"

RIGID SHEET TRIM BY "INPRO CORP."

4 / I000 RIGID SHEET WAINSCOT DETAILS

1/2" = 1'-0"



INTEGRAL BASE DETAIL

RESILIENT BASE DETAIL

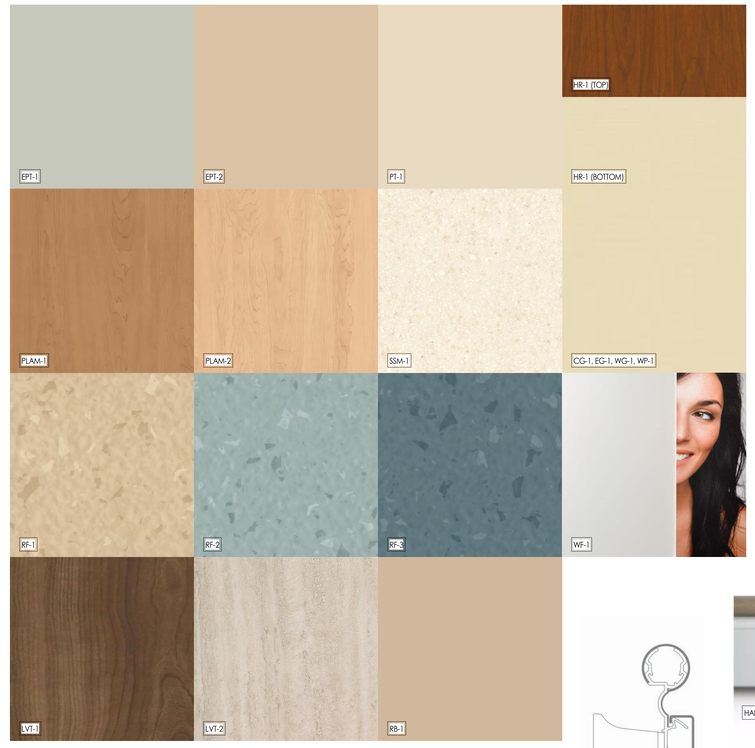
5 / I000 BASE DETAILS

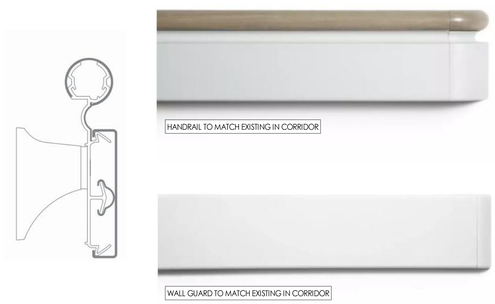
3" = 1'-0"

INTERIOR FINISH SCHEDULE

FINISH TYPE	FINISH CODE	MANUFACTURER	PATTERN/STYLE	COLOR	SIZE	SPECIFICATIONS	NOTES
FLOORS							
LUXURY VINYL TILE	LVT-1	TARKETT	EVENT + WOOD	3307 EUROPEAN CHERRY	6" X 36"	THICKNESS: 3mm INSTALLATION METHOD: STAGGERED	
LUXURY VINYL TILE	LVT-2	TARKETT	EVENT + STONE	7211 NAVONA TRAVERTINE	18" x 18"	THICKNESS: 3mm INSTALLATION METHOD: HORIZONTAL ASHLAR	
RUBBER FLOOR	RF-1	NORA RUBBER	SATURA	5102 GRUS	39.53" x 39.53" x 3.5mm	TO BE COLD WELDED FOR A SEAMLESS INSTALLATION. COLD WELDING RODS SHALL MATCH ADJACENT FLOOR COLOR.	
RUBBER FLOOR	RF-2	NORA RUBBER	SATURA	5128 DELPHINUS	39.53" x 39.53" x 3.5mm	TO BE COLD WELDED FOR A SEAMLESS INSTALLATION. COLD WELDING RODS SHALL MATCH ADJACENT FLOOR COLOR.	
RUBBER FLOOR	RF-3	NORA RUBBER	SATURA	5127 VELA	39.53" x 39.53" x 3.5mm	TO BE COLD WELDED FOR A SEAMLESS INSTALLATION. COLD WELDING RODS SHALL MATCH ADJACENT FLOOR COLOR.	
BASE							
INTEGRAL COVE BASE	IB-1	NORA RUBBER	SATURA	5102 GRUS	6" HIGH	TO BE COLD WELDED FOR A SEAMLESS INSTALLATION. COLD WELDING RODS SHALL MATCH ADJACENT FLOOR COLOR.	
RUBBER BASE	RB-1	TARKETT	BASEWORK THERMOSET RUBBER BASE (TYPE TS)	129 SILK	4"HIGH x 120' COILS	CORNERS: JOB-FORMED	
WALLS							
EPOXY PAINT	EPT-1	GLIDDEN PAINTS	N/A	MILLER'S COVE SAGE 10GY 56/073	N/A	GENERAL EPOXY PAINT - EG-SHELL FINISH	TO MATCH EXISTING
EPOXY PAINT	EPT-2	GLIDDEN PAINTS	N/A	IVORY SAMPLER 30YY 58/178	N/A	SEMI-GLOSS FINISH TO BE USED FOR DOOR FRAMES	HOLLOW METAL DOORS FRAMES / TRIM (TO MATCH EXISTING)
PAINT	PT-1	GLIDDEN PAINTS	N/A	PARCHMENT 40YY 70/138	N/A	EG-SHELL FINISH	GENERAL WALL PAINT (TO MATCH EXISTING)
CEILINGS							
ACOUSTIC CEILING TILE	ACT-1	ARMSTRONG	1728 FINE FISSURED	WHITE	24" x 24" x 5/8"	15/16" SQUARE EDGE LAY-IN ACOUSTIC TILE GRID: 15/16" PRELUDE XL	SAG-RESISTANT, ANTI-MICROBIAL
ACOUSTIC CEILING TILE	ACT-3	ARMSTRONG	1935 ULTIMA HEALTHZONE	WHITE	24" x 24" x 3/4"	15/16" SQUARE EDGE LAY-IN ACOUSTIC TILE GRID: 15/16" PRELUDE XL	SAG-RESISTANT, ANTI-MICROBIAL, WASHABLE, SCRUBBABLE, SCRATCH & SOIL RESISTANT
SURFACES							
PLASTIC LAMINATE	PLAM-1	WILSONART	N/A	7953-38 HARVEST MAPLE	N/A	GRAIN SHALL RUN VERTICALLY	EDGE BANDING TO MATCH LAMINATE ON EDGES/FACE OF CABINETS
PLASTIC LAMINATE	PLAM-2	WILSONART	N/A	10776-60 KENSINGTON MAPLE	N/A	GRAIN SHALL RUN VERTICALLY	EDGE BANDING TO MATCH LAMINATE ON EDGES/FACE OF CABINETS
SOLID SURFACE	SSM-1	CORIAN	N/A	ABALONE	N/A		
WALL PROTECTION							
CORNER GUARD	CG-1	C-S GROUP	SSM-20AN	102 DESERT SAND	2" WING	SURFACE MOUNT VINYL CORNER GUARD INSTALL FROM TOP OF FINISHED BASE TO 7'-2" A.F.F. CONTRACTOR TO PROVIDE MATCHING END CAPS	TO MATCH EXISTING
END WALL GUARD	EG-1	C-S GROUP	SSM-25AN	102 DESERT SAND	2" WING	SURFACE MOUNTED END WALL GUARD INSTALL FROM TOP OF FINISHED BASE TO 7'-2" A.F.F. CONTRACTOR TO INCLUDE MATCHING END CAPS.	
HAND RAIL	HR-1	C-S GROUP	HRB-10CN	HANDRAIL: 1719 DARK AMERICAN CHERRY CRASH RAIL: 102 DESERT SAND		SURFACE MOUNTED HANDRAIL CONTRACTOR TO INCLUDE MATCHING END CAPS & OUTSIDE CORNERS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.	TO MATCH EXISTING
STAINLESS STEEL CORNER GUARD	SG-1	C-S GROUP	CO-8	STAINLESS STEEL	MATCH EXISTING	SURFACE MOUNTED STAINLESS STEEL CORNER GUARD	TO MATCH EXISTING
WALL GUARD	WG-1	C-S GROUP	ECR-48M	102 DESERT SAND	6"	MOUNTING: EXTENDED BRACKETS CONTRACTOR TO INCLUDE MATCHING END CAPS.	TO MATCH EXISTING
RIGID SHEET WALL PROTECTION	WP-1	C-S GROUP	ACROVYN 4000 WALLCOVERING	102 DESERT SAND	4' x 10' PANELS	THICKNESS: .040" CONTRACTOR TO INCLUDE MATCHING TRIM. CAULKS USED AT JOINTS SHALL COLOR MATCH WALL PROTECTION SHEET. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR STANDARD INSTALLATION INSTRUCTIONS.	USE MATCHING TRIM PIECES AS REQUIRED FOR A COMPLETE INSTALLATION
MISCELLANEOUS							
WOOD TRIM	TR-1		SOLID BIRCH 1/2" STOCK	PARCHMENT 40YY 70/138	2" W x 1/2" D	INSTALL VERTICALLY WHERE INDICATED ON INTERIOR ELEVATIONS. REFER TO TRIM PROFILE DETAIL ON THIS SHEET FOR DETAILS.	
WINDOW FILM	WF-1	SOLYX	SXJ-0550 WHITE DUSTED MATTE	--	60" WIDE ROLL	ADHESION TYPE: SELF-ADHESIVE	APPLY TO INTERIOR SIDE OF GLASS

PROPOSED INTERIOR FINISHES





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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. — 51301 — Charlotte, North Carolina

KENNETH ARNOLD RYAN — REGISTERED ARCHITECT — 8924 — NORTH CAROLINA — CHARLOTTE, N.C. — 11/14/2025

SHEET INFORMATION

Issued
11/14/2025

Scale
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Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
CPL

Checked By
CPL

Drawing Title
INTERIORS GENERAL

Drawing Number
-
I000

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1 / 1200 **GROUND FLOOR INTERIOR FINISH PLAN - OVERALL**

3/16" = 1'-0"

FINISH PLAN GENERAL NOTES

1. ALL NEW AND EXISTING HOLLOW METAL DOORS, DOOR FRAMES AND WINDOW FRAMES IN PROJECT SCOPE SHALL BE PAINTED EPT-2 (IVORY SAMPLER), UNLESS NOTED OTHERWISE.
2. ALL NEW WOOD DOORS SHALL BE STAINED TO MATCH EXISTING, UNLESS NOTED OTHERWISE.
3. ALL LOUVERS, VENTS, GRILLES AND OTHER MISCELLANEOUS MECHANICAL AND ELECTRICAL DEVICES ARE TO BE FACTORY FINISHED TO MATCH THE SURFACE ON WHICH THEY APPEAR, UNLESS NOTED OTHERWISE.
4. PLASTIC LAMINATE ON VERTICAL SURFACE TO RUN VERTICALLY, UNLESS NOTED OTHERWISE.
5. WHERE KICK SPACES OCCUR AT MILLWORK, FLOOR FINISH SHOWN ON PLANS SHALL RUN UNDERNEATH KICK SPACE AS WELL.
6. ALL FLOOR FINISHES SHALL TRANSITION AT THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
7. IN AREAS WHERE SHEET FLOOR PATTERNS OCCUR, USE COLOR MATCHED, SOLID WELD ROD BETWEEN TWO RUBBER FLOOR COLORS.
8. IN AREAS THAT REQUIRE INTEGRAL BASE, REFER TO FINISH SCHEDULE FOR SPECIFIED TOP CAP INFORMATION.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES AND SOFFIT FINISHES.
10. REFER TO SHEET I200 AND INTERIOR ELEVATIONS FOR MILLWORK FINISHES.
11. REFER TO SHEET I200 FOR WALL PROTECTION LOCATIONS. REFER TO I000 FOR WALL PROTECTION DETAILS AND ADDITIONAL FINISH INFORMATION.
12. PROVIDE CONCRETE FLOOR PREPARATION IN ACCORDANCE WITH FLOORING MANUFACTURER SPECIFICATION.

FINISH PLAN SYMBOLS LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT IN THIS PROJECT

ROOM NUMBER
WALL FINISH(ES)
FLOOR FINISH(ES)
MULTIPURPOSE ROOM
101 (150 SF)
WF-1 , WF-2
BF-1 , BF-2
FF-1 , FF-2
ROOM NAME
ROOM AREA
BASE FINISH (ES)

NOTE: FOR EACH CATEGORY, THE FIRST FINISH LISTED IS ASSUMED TO BE THE FIELD FINISH, APPLY TO ALL LOCATIONS NOT OTHERWISE NOTED ON FINISH PLAN.

ID2 — FINISH PLAN KEY NOTE	CGX — CORNER GUARD	XXX — EXTENT OF NOTED FINISH
WPA-X — WALL PROTECTION	WTX — WINDOW TREATMENT	WP — WORK POINT
FLOOR DIRECTION (LONG SIDE OF FLOOR TILE PARALLEL WITH LONG SIDE OF SYMBOL)	XXX — XXX MATERIAL TRANSITION	TSX — TRANSITION STRIP

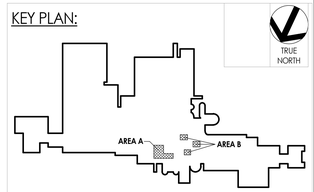
FINISH ABBREVIATIONS:

ETR	EXISTING TO REMAIN	INT	INTEGRAL
PTM	PAINT TO MATCH	EXP	EXPOSED

FINISH PLAN KEYED NOTES

- ID1 DOOR FRAME TO BE PAINTED EPT-2 (IVORY SAMPLER) IN ITS ENTIRETY. REFER TO INTERIOR FINISH SCHEDULE FOR MORE INFORMATION.
- ID2 REMOVE EXISTING HANDRAILS AND WALL GUARDS WHERE INDICATED ON DEMO PLAN. INSTALL NEW HANDRAILS AND WALL GUARDS AS SPECIFIED. REFER TO SHEET I000 FOR DETAILS.
- ID3 RIGID SHEET WALL PROTECTION (WP-1) AT 5'-6" A.F.F. WHERE INDICATED ON FINISH PLAN.
- ID4 LIMIT OF NEW PAINT AND WALL PROTECTION. INSTALL WOOD TRIM PIECE (TR-1) FROM TOP OF FINISHED BASE TO FINISHED CEILING. PAINT TRIM PIECE PT-1 (PARCHMENT).
- ID5 MAINTAIN EXISTING FINISHES; PATCH/REPAIR AS NEEDED AFTER CONSTRUCTION.
- ID6 REPLICATE EXISTING CHAIR RAIL AND EXTEND ON NEW WALLS WHERE INDICATED ON FLOOR FINISH PLAN. PAINT NEW WALLS TO MATCH EXISTING WALLS.
- ID7 WALL PROTECTION TO MATCH EXISTING.
- ID8 APPLY WINDOW FILM (WF-1) ON INTERIOR SIDE OF DOOR GLASS.
- ID9 PLASTIC LAMINATE CASEWORK SHALL BE PLAM-1 (HARVEST MAPLE). SOLID SURFACE COUNTERTOPS SHALL BE SSM-1 (ABALONE).
- ID10 REMOVE EXISTING HANDRAIL AND RIGID SHEET WALL PROTECTION WHERE INDICATED ON DEMO PLAN. INSTALL NEW HANDRAIL AND RIGID SHEET WALL PROTECTION AS SPECIFIED. REFER TO SHEET I000 FOR DETAILS.
- ID11 EXISTING HANDRAIL RELOCATED ON NEW PARTITION.

KEY PLAN:



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UNC HEALTH Wayne

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Client Name: **UNC HEALTH WAYNE**

Project Name: **CATH LAB RENOVATION**

Project Address: 2700 WAYNE MEMORIAL DRIVE GOLDSBORO, NC 27533

CON Number: P-12569-24

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PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. REGISTERED ARCHITECTURAL COMPANY 51301 NORTH CAROLINA Charlotte, North Carolina

KENNETH ARNOLD RYAN REGISTERED ARCHITECT 8924 NORTH CAROLINA CHARLOTTE, N. C. 11/14/2025

SHEET INFORMATION

Issued: 11/14/2025	Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS	
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Drawing Title: FLOOR FINISH PLAN	

Drawing Number: - 1200

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1300

GROUND FLOOR INTERIOR FLOOR PATTERN PLAN - OVERALL

3/16" = 1'-0"

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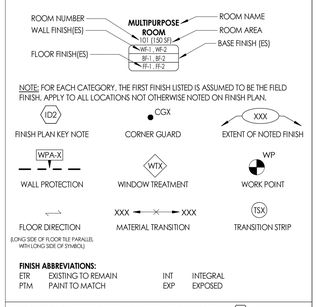
4. PLASTIC LAMINATE ON VERTICAL SURFACE TO RUN VERTICALLY, UNLESS NOTED OTHERWISE.
5. WHERE KICK SPACES OCCUR AT MILLWORK, FLOOR FINISH SHOWN ON PLANS SHALL RUN UNDERNEATH KICK SPACE AS WELL.
6. ALL FLOOR FINISHES SHALL TRANSITION AT THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
7. IN AREAS WHERE SHEET FLOOR PATTERNS OCCUR, USE COLOR MATCHED, SOLID WELD ROD BETWEEN TWO RUBBER FLOOR COLORS.
8. IN AREAS THAT REQUIRE INTEGRAL BASE, REFER TO FINISH SCHEDULE FOR SPECIFIED TOP CAP INFORMATION.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES AND SOFFIT FINISHES.
10. REFER TO SHEET I200 AND INTERIOR ELEVATIONS FOR MILLWORK FINISHES.
11. REFER TO SHEET I200 FOR WALL PROTECTION LOCATIONS. REFER TO I000 FOR WALL PROTECTION DETAILS AND ADDITIONAL FINISH INFORMATION.
12. PROVIDE CONCRETE FLOOR PREPARATION IN ACCORDANCE WITH FLOORING MANUFACTURER SPECIFICATION.

FINISH PLAN SYMBOLS LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT IN THIS PROJECT



FINISH ABBREVIATIONS:

ETR	EXISTING TO REMAIN	INT	INTEGRAL
PTM	PAINT TO MATCH	EXP	EXPOSED

FLOOR PATTERNING KEYED NOTES

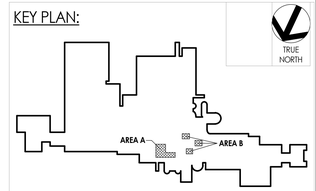
A PATCH FLOOR UP TO ONE FULL TILE. REFER TO INTERIOR FINISH SCHEDULE FOR MORE INFORMATION.

B EQUIPMENT ISOCENTER

FLOOR FINISH LEGEND

- EXISTING TO REMAIN
- RF-1
- RF-2
- RF-3
- LVT-1
- LVT-2

KEY PLAN:



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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers P.C. — REGISTERED ARCHITECTURAL CORPORATION — 51301 — NORTH CAROLINA — Charlotte, North Carolina

KENNETH ARNOLD RYAN — REGISTERED ARCHITECT — 8924 — NORTH CAROLINA — CHARLOTTE, N. C. — 11/14/2025

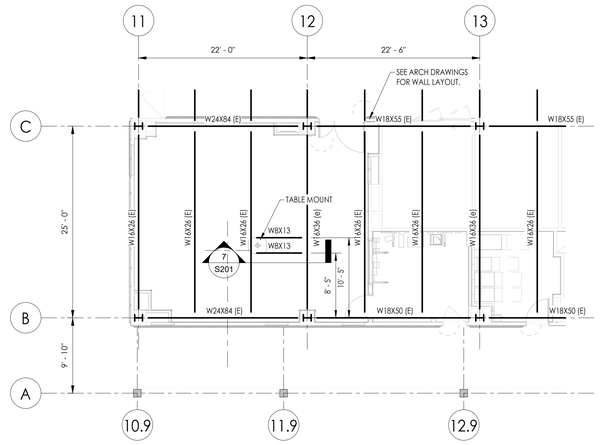
SHEET INFORMATION

Issued: 11/14/2025	Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS	
Drawn By: CPL	Checked By: CPL

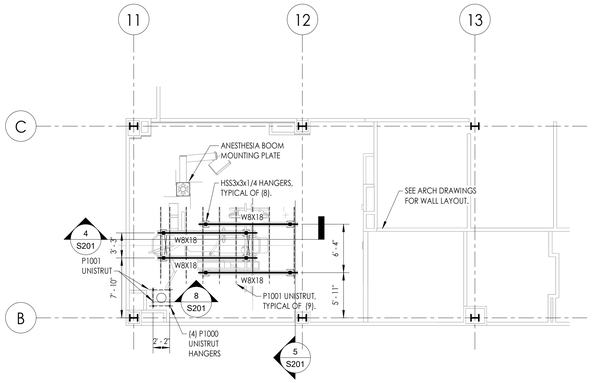
Drawing Title
FLOOR PATTERNING PLAN

Drawing Number
-
1300

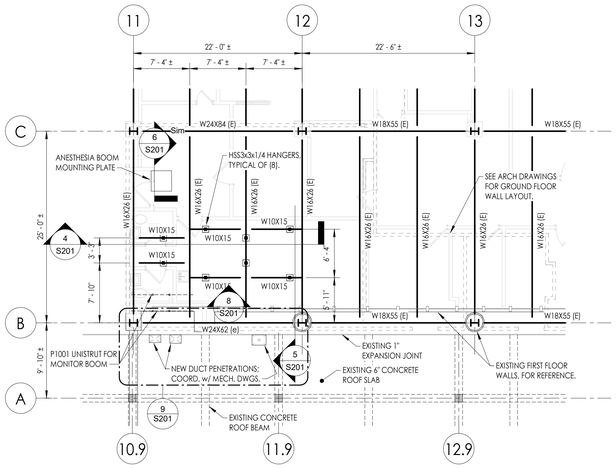
11/12/2025 11:12:55 AM PROJECT FILES ON ACC



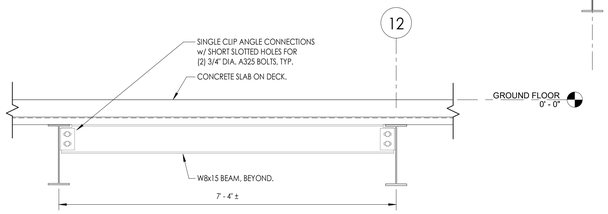
1 S201 **GROUND FLOOR FRAMING PLAN**
1/8" = 1'-0"



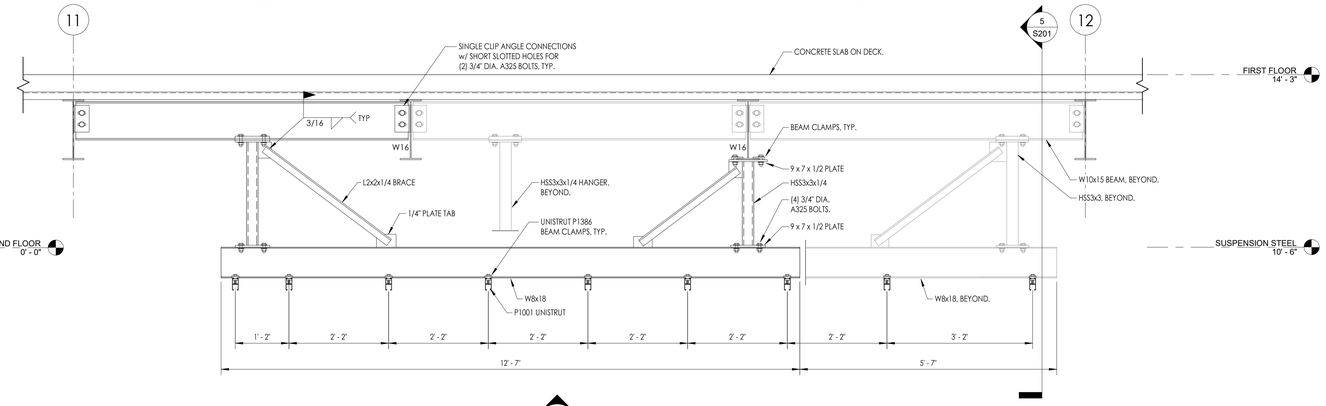
2 S201 **CEILING LEVEL SUPPORT STEEL**
1/8" = 1'-0"



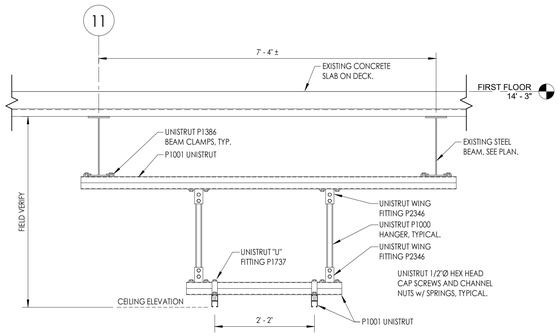
3 S201 **FIRST FLOOR LEVEL FRAMING**
1/8" = 1'-0"



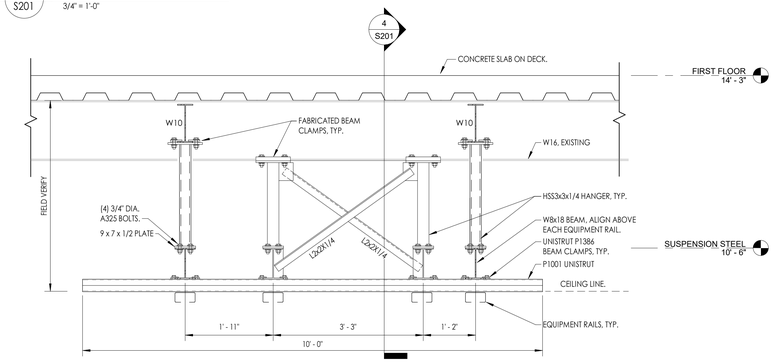
7 S201 **SECTION**
3/4" = 1'-0"



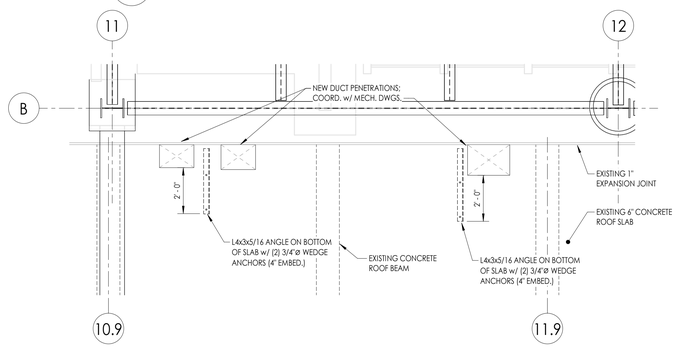
4 S201 **LONGITUDINAL SECTION**
3/4" = 1'-0"



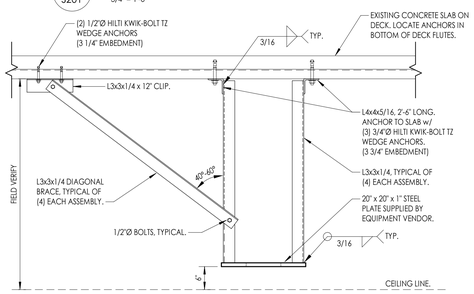
8 S201 **MONITOR BOOM MOUNT SUBSTRUCTURE**
3/4" = 1'-0"



5 S201 **TRANSVERSE SECTION**
3/4" = 1'-0"



9 S201 **ENLARGED PLAN @ PENETRATIONS**
3/8" = 1'-0"



6 S201 **ANESTHESIA BOOM MOUNT**
3/4" = 1'-0"

GENERAL NOTES

1. THE STRUCTURE SHOWN ON THESE DRAWING IS SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.
2. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS NOTED OTHERWISE.
3. ALL DESIGN, INCLUDING MATERIAL STRESSES AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH 2018 NORTH CAROLINA STATE BUILDING CODE, THE UNIFORM BUILDING CODE, OSHA AND GOVERNING AGENCIES HAVING JURISDICTION.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS SHOWN ON THE DRAWINGS AND IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO ORDERING OR FABRICATING MATERIALS OR OTHERWISE PROCEEDING WITH THE WORK..
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES REQUIRED TO EXECUTE AND COMPLETE ALL ITEMS OF WORK AS SHOWN OR INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN, INCLUDING INCIDENTAL ITEMS TO EFFECT A FINISHED AND COMPLETE JOB, EVEN THOUGH SUCH ITEMS ARE NOT SHOWN OR PARTICULARLY MENTIONED.
6. THE GENERAL CONTRACTOR SHALL USE CONSTRUCTION METHODS THAT ARE IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
7. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ADEQUATELY SHORING AND BRACING EXISTING CONSTRUCTION WHILE PERFORMING NEW WORK..
8. DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE ARE ANY QUESTIONS REGARDING DIMENSIONS, CONTACT THE ARCHITECT/ENGINEER FOR INFORMATION PRIOR TO SUBMITTING SHOP DRAWINGS.
9. THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL WORK WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, AND WITH THE WORK OF ALL OTHER TRADES.
10. THE CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF FLOOR, ROOF AND WALL PENETRATIONS WITH MECHANICAL, PLUMBING AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE APPROVED BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE.
11. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION ALL SITE APPURTENANCES DAMAGED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
12. INFORMATION IN THESE STRUCTURAL NOTES IS A SELECTED SUMMARY OF REQUIREMENTS. REFER TO SPECIFICATIONS FOR AMPLIFICATIONS OF REQUIREMENTS.
13. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE EITHER LOCATED ON COLUMN LINES OR ARE EQUALLY SPACED BETWEEN LOCATED MEMBERS.
14. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.

EXISTING CONSTRUCTION NOTES

1. BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBERS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW WORK TO THE EXISTING WORK.
3. WORK SHOWN ON THE DRAWINGS IS NEW, UNLESS NOTED AS EXISTING.
4. EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM DRAWINGS PREPARED BY THE FIRM OF HENNINGTON, DURHAM & RICHARDSON, INC., DATED 1991 AND LIMITED SITE OBSERVATION. THESE DRAWINGS OF EXISTING CONSTRUCTION ARE AVAILABLE FOR CONTRACTOR USE. HOWEVER, THE AVAILABLE DRAWINGS OF EXISTING CONSTRUCTION MAY NOT NECESSARILY BE COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT INFORMATION.
5. IF ANY ARCHITECTURAL, STRUCTURAL, OR MECHANICAL MEMBERS OR COMPONENTS NOT DESIGNATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND APPROVAL MUST BE OBTAINED PRIOR TO REMOVAL OF THOSE MEMBERS.
6. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION TO ALLOW THE INSTALLATION OF NEW WORK. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HIS ENGINEER.
7. THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE DESIGN PROFESSIONAL.
8. THE CONTRACTOR SHALL REMOVE FIREPROOFING AS REQUIRED TO FACILITATE CONNECTIONS OF NEW ELEMENTS TO EXISTING STRUCTURAL STEEL. CONTRACTOR SHALL RESTORE FIREPROOFING TO ORIGINAL REQUIRED UL ASSEMBLY RATING.
9. ALL DUCT PENETRATIONS THROUGH EXISTING CONCRETE SLAB SHALL BE CORE DRILLED AT THE CORNERS. DO NOT OVER CUT SLAB AT CORNERS.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND "THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
2. HOT ROLLED STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM ASTM A992. HOLLOW STRUCTURAL SHAPES (HSS) SHALL CONFORM TO ASTM A500 GRADE B. ANGLES, CHANNELS, AND OTHER MISCELLANEOUS METALS SHALL CONFORM TO ASTM A36.
3. STEEL CONNECTIONS ARE SHOWN SCHEMATICALLY. FABRICATOR IS RESPONSIBLE FOR DESIGN AND DETAILING OF CONNECTIONS, INCLUDING MATERIAL GRADE AND SIZES, WELD SIZES, AND NUMBER OF BOLTS. ADDITIONAL CONNECTION ELEMENTS MAY NOT BE SPECIFICALLY SHOWN ON THE SCHEMATIC DETAILS BUT MAY BE REQUIRED BY THE FINAL CONNECTION DESIGN, SUCH AS STIFFENER PLATES, DOUBLER PLATES, SUPPLEMENT / REINFORCING PLATES OR OTHER CONNECTION MATERIAL.
4. REACTIONS AND LOADS PROVIDED ON DRAWINGS ARE UNFACTORED.
5. EACH BEAM CONNECTION SHALL BE DESIGNED FOR ONE HALF OF THE TOTAL LOAD SHOWN IN THE AISC TABLES FOR THE RESPECTIVE SPAN UNLESS OTHERWISE NOTED. MINIMUM CONNECTION SHALL BE TWO (2) BOLTS. ALL BEAM CONNECTIONS SHALL BE WELDED CONNECTIONS, OR BOLTED CONNECTIONS USING GRADE A325 BOLTS, 3/4" DIAMETER.
6. CUTS, HOLES, COPES, ETC., REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS AND MADE IN THE SHOP. FIELD CUTTING OR BURNING WILL NOT BE PERMITTED.
7. ALL WELDING BOTH SHOP AND FIELD, SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS. WELDING ELECTRODES SHALL CONFORM TO ASTM A233, E70-XX. MINIMUM WELD SIZE SHALL BE 1/4 INCHES (FILLET) UNLESS OTHERWISE NOTED.
8. STRUCTURAL STEEL SHALL RECEIVE A SHOP COAT OF RUST INHIBITING PAINT EXCEPT AS FOLLOWS;
   A. WITHIN TWO INCHES OF FIELD WELDS
9. AFTER ERECTION, ALL DAMAGED AREAS IN THE SHOP COAT SHALL BE REPAIRED WITH THE SAME PAINT USED FOR THE SHOP COAT.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW.

UNISTRUT NOTES

1. USE UNISTRUT 1/2"-13 THREAD HEX HEAD CAP SCREWS AND P1010 SPRING CHANNEL NUTS FOR ALL UNISTRUT FITTINGS AND CONNECTIONS, U.N.O. (AT CONTRACTORS OPTION, UNISTRUT 1/2"-13 CHANNEL STUD NUTS w/ SPRINGS AND HEX NUTS MAY BE SUBSTITUTED.)
2. FASTENER INSTALLATION TORQUE = 50 FT-LBS.
   A. ALLOWABLE PULLOUT WITH 12GA UNISTRUT = 2000 LBS.
   B. ALLOWABLE SLIP WITH 12GA UNISTRUT = 1500 LBS.

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UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

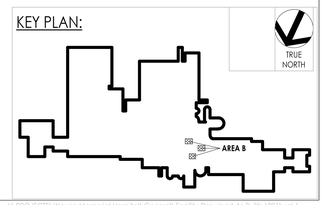
#	Date	Description

PROFESSIONAL STAMPS

CPL Architects and Engineers, P.C. ARCHITECTURE, ENGINEERING, CONSULTING 51301 NORTH CAROLINA Charlotte, North Carolina

NORTH CAROLINA PROFESSIONAL SEAL 051272 ENGINEER BRIAN S. COOK 11/11/2025

KEY PLAN:



SHEET INFORMATION

Issued	Scale
11/14/2025	As indicated

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By	Checked By
CPL	BSC

Drawing Title
MEDICAL EQUIPMENT SUBSTRUCTURE PLANS, DETAILS AND NOTES

Drawing Number
S201

HVAC SYMBOLS LIST

AAD	AUTOMATIC AIR DAMPER
ACC	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BBD	BOILER BLOW DOWN
BD	BACKDRAFT DAMPER
CA	COMBUSTION AIR
CD	COOLING COIL CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER
D	DRAIN
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ERHC	ELECTRIC REHEAT COIL
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
F&T	FLOAT AND THERMOSTATIC TRAP
FCU	FAN-COIL UNIT
FPM	FEET PER MINUTE
FT	FIN-TUBE
GC	GENERAL CONTRACTOR
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HC	HVAC CONTRACTOR
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
Hp	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION
LPC	LOW PRESSURE CONDENSATE
LPG	LIQUEFIED PROPANE GAS
LPS	LOW PRESSURE STEAM
MBH	1,000 BTU/HR
MC	MECHANICAL CONTRACTOR
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MRD	MONOFLO FITTING DOWN – HHWR
MSD	MONOFLO FITTING DOWN – HHWS
MUW	MAKE-UP WATER
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PHWR	PRIMARY HEATING HOT WATER RETURN
PHWS	PRIMARY HEATING HOT WATER SUPPLY
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RHC	HOT WATER REHEAT COIL
RL	REFRIGERANT LIQUID PIPE
RS	REFRIGERANT SUCTION PIPE
RTU	ROOFTOP UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SHWR	SECONDARY HEATING HOT WATER RETURN
SHWS	SECONDARY HEATING HOT WATER SUPPLY
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)
SSO	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)
TC	TEMPERATURE CONTROLS CONTRACTOR
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VENT
WAHP	WATER-TO-AIR HEAT PUMP
WWHP	WATER-TO-WATER HEAT PUMP

SYMBOL	DESCRIPTION
	CONNECTION - TOP
	CONNECTION - BOTTOM
	DIRECTION OF FLOW
	REDUCER
	CAP OR PLUG
	ELBOW DOWN
	ELBOW UP
	TEE OUTLET - UP
	TEE OUTLET - DOWN
	UNION
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	STRAINER
	STRAINER WITH BLOW-DOWN
	BUTTERFLY VALVE
	BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY
	BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR
	GLOBE VALVE
	CHECK VALVE
	TRIPLE DUTY VALVE
	GAS COCK, PLUG VALVE
U/C	UNDERCUT DOOR 1"
	LOUVERED DOOR W/ SQ. FT. OF FREE AREA
M	AIR VENT - MANUAL
A	AIR VENT - AUTOMATIC
	FLANGE
	CONTROL/SOLENOID VALVE, ELECTRIC 2-WAY
	CONTROL VALVE, ELECTRIC 3-WAY
	CONTROL VALVE, PNEUMATIC 2-WAY
	CONTROL VALVE, PNEUMATIC 3-WAY
	RELIEF / SAFETY VALVE
	PRESSURE REDUCING VALVE
V	VACUUM BREAKER
	FLEXIBLE PIPE CONNECTOR
	EXPANSION COMPENSATOR W/ GUIDES
	EXPANSION JOINT
	PIPE ANCHOR
	PIPE GUIDE
TT	THERMOSTATIC TRAP
FT	FLOAT & THERMOSTATIC TRAP
BT	BUCKET TRAP
TD	THERMODYNAMIC TRAP
	THERMOMETER
	WELL
	PRESSURE GAUGE
	STEAM PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PNEUMATIC (CONTROL) TUBING
	BUTTERFLY VALVE WITH PNEUMATIC AND MANUAL OPERATORS
XX	PIPING
XX	PIPING BELOW GRADE
	BASE MOUNTED PUMP
	IN-LINE PUMP
	AIR TERMINAL UNIT WITH REHEAT COIL AND SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH REHEAT COIL
	AIR TERMINAL UNIT
W/W ENCL.	WALL TO WALL FIN TUBE ENCLOSURE

SYMBOL	DESCRIPTION
20/10	DUCT SECTION - SUPPLY
20/10	DUCT SECTION - RETURN
20/10	DUCT SECTION - EXHAUST
A"	DUCT SECTION - ROUND DUCT IN INCHES
AX8 FO	DUCT SECTION - FLAT OVAL DUCT IN INCHES
	ACOUSTIC THERMAL LINING
	FLEXIBLE DUCTWORK
FC	FLEXIBLE CONNECTION
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE AND SMOKE DAMPER
VD	VOLUME DAMPER
	DAMPER CONTROL, PARALLEL BLADE
	DAMPER CONTROL, OPPOSED BLADE
AAD	AUTOMATIC AIR DAMPER
BDD	BACK DRAFT DAMPER
BG	BLAST GATE
20/10 12X10 10/20	AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)
	MULTI-BLADE AIR EXTRACTOR
	TURNING VANES
	EXISTING WORK TO BE REMOVED (HATCHED)
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	AIR FLOW SENSOR
	FILTER
	TRANSITION SQUARE TO ROUND
	HUMIDIFIER DISPERSION TUBE
RISE R	RISE IN DUCT
DROP D	DROP IN DUCT
	SQUARE CEILING DIFFUSER (4 WAY)
	ROUND CEILING DIFFUSER
	SQUARE OR RECTANGULAR CEILING GRILLE
	SUPPLY REGISTER, RETURN OR EXHAUST GRILLE
1-WAY 2-WAY 3-WAY	SUPPLY DIFFUSER, 1-WAY, 2-WAY, 3-WAY
8"Ø, D-3 300 CFM	CEILING DIFFUSER WITH NECK SIZE, TYPE, & CFM
10"x10", G-3 300 CFM	CEILING RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
10"x8", R-2 300 CFM	SUPPLY REGISTER WITH SIZE, TYPE, & CFM
10"x8", G-2 300 CFM	RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
	AIR FLOW
L1	ACOUSTIC/THERMAL DUCTWORK LINING - 1 INCH THICK
L2	ACOUSTIC/THERMAL DUCTWORK LINING - 2 INCH THICK
PL1	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 1 INCH THICK
PL2	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 2 INCH THICK

SYMBOL	DESCRIPTION
24X12 12X10 VD 1-1/2 TIMES BRANCH SIZE 24X12 12X10	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
24X12 8"Ø VD 1-1/2 TIMES BRANCH SIZE 24X12 8"Ø	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
14"Ø 10"Ø VD CONICAL TEE 14"Ø 10"Ø	SUPPLY AIR TAKEOFFS
14"Ø 10"Ø VD LATERAL 14"Ø 10"Ø	SUPPLY AIR TAKEOFFS
24X12 6X12 12X10 18X12 20X12 24X12 18X12 12X10 6X12 20X12	SUPPLY AIR TAKEOFFS
24X12 12X10 VD 12X10 24X12 VD	SUPPLY/RETURN EXHAUST AIR TAKEOFFS W/ REGISTER/GRILLE/ DIFFUSER
VD VD VD	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
VD VD VD VD	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
W R	LONG RADIUS 90° ELBOW R/W=1.5
W R	LONG RADIUS 45° ELBOW R/W=1.5
	90° ELBOW WITH TURNING VANES
18X16 18X8 18X8 18X8 18X16 18X8	90 VERTICAL SPLIT OFF (PLAN VIEW)
20X10 20X10 20X10 20X10	DUCT TURNING UP OR DOWN
U MAX MIN	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE MAX = MAXIMUM CFM MIN = MINIMUM CFM
U GPM MAX	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE GPM = GALLONS PER MIN MAX = MAXIMUM GPM
U MAX MIN FAN	FAN POWERED AIR TERMINAL UNIT U - UNIT TYPE MAX = PRIMARY MAX CFM MIN = PRIMARY MIN CFM FAN = FAN CFM
TYPE COIL SIZE CLNG GPM HTNG GPM	TYPE = VALANCE TYPE COIL SIZE = COIL LENGTH CLNG GPM = COOLING GPM HTNG GPM = HEATING GPM
X XX	X = DIFFUSER OR GRILL TYPE XX = AIR FLOW VALUE (CFM)

SYMBOL	DESCRIPTION
E/P	ELECTRIC/PNEUMATIC SWITCH OR RELAY
P/E	PNEUMATIC/ELECTRIC SWITCH OR RELAY
CT	CURRENT TRANSDUCER
O/C	OPEN/CLOSED
S/S	START/STOP
E/D	ENABLE/DISABLE
T	TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)
H	HUMIDITY SENSOR (DUCT MOUNTED)
F	FLOW TRANSMITTER
P	PRESSURE TRANSMITTER
ΔP	DIFFERENTIAL PRESSURE TRANSMITTER
I/P	ELECTRIC/PNEUMATIC TRANSDUCER
I/E	ELECTRIC/ELECTRONIC TRANSDUCER
	DUCT SMOKE DETECTOR
T	SPACE THERMOSTAT
T	SPACE TEMPERATURE SENSOR
CO2	SPACE CARBON DIOXIDE SENSOR
CH4	SPACE NATURAL GAS SENSOR
CO	SPACE CARBON MONOXIDE SENSOR
G	SPACE SENSOR WITH GUARD
H	SPACE HUMIDISTAT
FS	WATER FLOW SENSOR
P/A	PNEUMATIC ACTUATOR
E/A	ELECTRIC ACTUATOR
VSD VFD	VARIABLE SPEED / FREQUENCY DRIVE
C/C	COOLING COIL
H/C	HEATING COIL
G/F	GAS FURNACE
H	HUMIDIFIER
A	ALARM
S	STATUS
FS	FLOW SWITCH
ΔP	DIFFERENTIAL STATIC PRESSURE SWITCH
R	RELAY
	PRESSURE GAUGE
FZ	FREEZE-STAT
DI	DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)
DO	DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AO	ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AI	ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)
	ELECTRICAL INTERFACE
SF	SPEED FEED BACK
	TRAVERSE AVERAGING SENSOR
	PROBE SENSOR
	FREEZE STAT SENSOR

SYMBOLS GENERAL NOTES:

1) VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.

MECHANICAL DESIGN CRITERIA

CONDITION	CRITERIA	COMMENTS
SUMMER (COOLING): OUTSIDE AIR DESIGN	95.1 °F DB/75.9°F WB	DERIVED FROM ASHRAE 2021 FUNDAMENTALS FOR GOLDSBORO, NC
WINTER (HEATING): OUTSIDE AIR DESIGN	21 °F DB	DERIVED FROM ASHRAE 2021 FUNDAMENTALS FOR GOLDSBORO, NC
INDOOR DESIGN: SUPPORT AREAS CATH LAB	 75 °F DB 62 °F DB	 RELATIVE HUMIDITY (CONTROLLED): 50%

SEISMIC DESIGN CRITERIA FOR NON-STRUCTURAL COMPONENTS

SEISMIC DESIGN CATEGORY	C
BUILDING RISK CATEGORY	IV
MECHANICAL COMPONENT IMPORTANCE FACTOR (IP)	1.5
PROJECT SPECIFIC SEISMIC DESIGN REQUIREMENTS	YES*

* PROVIDE SEISMIC ROOF CURBS FOR ALL ROOFTOP EQUIPMENT.

MECHANICAL GENERAL NOTES:

1. ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWING FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.
2. ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS. PATCHING AND FINISHING SHALL MATCH CONSTRUCTION INCLUDING FIRE RATINGS. PROVIDE LINTELS PER LINTEL SCHEDULE.
3. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
4. DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
5. ALL MECHANICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2024 NORTH CAROLINA BUILDING, MECHANICAL, PLUMBING, FUEL GAS, FIRE PREVENTION AND ENERGY CONSERVATION CODES.
6. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
7. SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
8. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
9. RADIUSED ELBOWS SHALL BE USED IN ALL RETURN AND EXHAUST DUCTWORK WHERE SPACE PERMITS. MITERED ELBOWS WITH TURNING VANES ARE PERMITTED WHERE SHOWN ON PLAN IF ACCESS DOORS FOR CLEANING ARE PROVIDED AT TURNING VANES.
10. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS INCLUDING LIGHT FIXTURES, SMOKE DETECTORS, SPRINKLER HEADS, ETC.
11. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS AND HUMIDITY SENSORS AT 48" (CENTERLINE) ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE AND DOOR SWINGS.
12. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
13. ALL DUCT SIZES SHOWN AS INSIDE CLEAR DIMENSIONS.
14. DAMPERS AND INTERIOR OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
15. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
16. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
17. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT. PROVIDE DUCT ACCESS DOORS ADJACENT TO ALL SQUARE ELBOWS WITH TURNING VANES FOR CLEANING. ACCESS PANELS PROVIDED BY DIV 08 31 00.
18. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES. UPSTREAM OF SPLIT.
19. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH PIECE OF EQUIPMENT INCLUDING FANS, AIR HANDLING UNITS, TERMINAL UNITS AND FAN COIL UNITS, ETC.
20. RUNOUT DUCTS TO DIFFUSERS & GRILLES SHALL MATCH THE SCHEDULED DEVICE NECK SIZE UNLESS NOTED OTHERWISE. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEXIBLE DUCTS TO BE CONNECTED.
21. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC. AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
22. UNLESS OTHERWISE NOTED, ALL DRAINS FOR EQUIPMENT AND VALVES SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
23. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS.
24. A MAXIMUM LENGTH OF 5'-0" FLEXIBLE DUCTWORK ALLOWED ON ANY RUNOUT TO ANY AIR DEVICE IN SUPPLY AIRSTREAM. FLEXIBLE DUCTWORK SHALL BE PROHIBITED IN THE RETURN OR EXHAUST AIRSTREAM.
25. ALL AIR TERMINAL UNIT RUNOUT SIZES SHALL BE AS INDICATED. TERMINAL UNIT OUTLET LOW PRESSURE DUCT SHALL BE TERMINAL BOX OUTLET SIZE UNLESS OTHERWISE NOTED.
26. ALL SUPPLY AND RETURN GRILLES SHALL BE A MINIMUM OF 36" AWAY FROM SMOKE DETECTOR LOCATIONS AS REQUIRED BY CODE.
27. PENETRATIONS OF RATED WALL ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE. REFER TO ARCHITECTURAL SERIES DRAWINGS FOR WALL RATINGS.
28. ALL FLEXIBLE DUCT CONNECTIONS DOWNSTREAM OF VAV BOXES TO HAVE MANUFACTURED SPIN-IN FITTINGS WITH VOLUME DAMPER AND MANUAL LOCKING QUADRANT WITH INSULATION STAND-OFF BRACKET. SECURE FLEXIBLE DUCT TO FITTING WITH STAINLESS STEEL BAND AND WORM GEAR OPERATED CLAMP.
29. REFER TO ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
30. DUCTWORK AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. COORDINATE EXACT LOCATION WITH THE BUILDING STRUCTURE.
31. PROVIDE ACCESS PANELS IN THE DUCTWORK FOR ALL FIRE DAMPERS OR OTHER DUCT MOUNTED EQUIPMENT.
32. CONTRACTOR SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF THE PROJECT.
33. INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
34. REPLACE FILTERS JUST PRIOR TO ACCEPTANCE BY THE OWNER.
35. TERMINATE DUCT 18" MINIMUM BEYOND CENTERLINE OF OUTLET TO LAST DIFFUSER.
36. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE DELIVERY CLEARANCE REQUIREMENTS OF LARGE EQUIPMENT WITH THE GENERAL CONTRACTOR TO PROVIDE SUFFICIENT ACCESS FROM THE DELIVERY POINT TO THE EQUIPMENT'S FINAL LOCATION.
37. CONTRACTOR SHALL COORDINATE ALL EXHAUST OUTLETS TO DISCHARGE A MINIMUM OF 25' FROM MECHANICAL AIR INTAKES.
38. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
39. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
40. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT SHALL BE SIZED AND LOCATED BY THE MECHANICAL CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE 6". PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6" ON EACH SIDE. CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF CONCRETE HOUSEKEEPING PADS WITH GENERAL CONTRACTOR.
41. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
42. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
43. ALL EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
44. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS.
45. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
46. PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING WATER, CHILLED WATER, AND OTHER CLOSED WATER PIPING SYSTEMS. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
47. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
48. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
49. PITCH STEAM PIPING DOWNWARD IN THE DIRECTION OF FLOW 1/4" IN 10FT. MINIMUM. PITCH ALL STEAM RETURN LINES DOWNWARD IN THE DIRECTION OF CONDENSATE FLOW 1/2" PER 10FT. MINIMUM. WHERE LENGTH OF BRANCH LINES ARE LESS THAN 8 FEET, PITCH BRANCH LINES TOWARD MAINS 1/2" PER FOOT MINIMUM.
50. TAP ALL BRANCH LINES FROM TOP OF STEAM MAINS (45° PREFERRED, 90° ACCEPTABLE).
51. PROVIDE AN END OF MAIN DRIP AT EACH RISE IN THE STEAM MAIN. PROVIDE CONDENSATE DRIPS AT THE BOTTOM OF ALL STEAM RISERS, DOWNFED RUNOUTS TO EQUIPMENT, RADIATORS, ETC., AT END OF MAINS AND LOW POINTS, AND AHEAD OF ALL PRESSURE REGULATORS, CONTROL VALVES, ISOLATION VALVES, AND EXPANSION JOINTS.
52. INSTALL PIPING WITHOUT FORCING OR SPRINGING.
53. LOCATE ALL MECHANICAL EQUIPMENT (TERMINAL UNITS, FAN COIL UNITS, UNIT HEATERS, COILS, STEAM HUMIDIFIERS, ETC.) FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS AND VALVING.
54. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.

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PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued
11/14/2025

Scale
NOT TO SCALE

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
TJB

Checked By
GAK

Drawing Title
HVAC SYMBOLS LEGEND AND CONTRACTOR NOTES

Drawing Number
-
H000

SPECIFICATIONS:

GENERAL

1. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE TO DESCRIBE THE INSTALLATION OF A COMPLETE, FULLY ADJUSTED, AND OPERATIONAL SYSTEM.

2. THE CONTRACTOR SHALL PROVIDE ALL SUPERVISION, LABOR, MATERIAL, EQUIPMENT, MACHINERY, AND ANY AND ALL OTHER ITEMS NECESSARY TO COMPLETE THE SYSTEMS.

3. ALL WORK UNDER THIS SECTION SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.

4. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING HIS BID SO AS TO BE THOROUGHLY FAMILIAR WITH THE JOB CONDITIONS AND OR PECULIARITIES. NO EXTRA PAYMENT WILL BE ALLOWED FOR ANYTHING WHICH COULD HAVE BEEN ANTICIPATED FROM A VISIT TO THE SITE.

5. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING BID AND COMMENCING WORK. ALL DISCREPANCIES AND INTERFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

6. THE CONTRACTOR SHALL CONTACT LOCAL UTILITIES TO OBTAIN ALL REQUIREMENTS, APPROVAL AND PERMITS. THE CONTRACTOR SHALL PAY ALL FEES REQUIRED FOR THE INSTALLATION OF THEIR WORK.

7. THE DRAWINGS ARE DIAGRAMMATIC ONLY. THE CONTRACTOR MAY NEED TO MAKE FIELD ADJUSTMENTS TO ACCOMMODATE ACTUAL FIELD CONDITIONS. CONTACT ARCHITECT FOR HIS APPROVAL FOR ANY ADJUSTMENTS THAT WILL CHANGE THE "EXPOSED TO VIEW" APPEARANCE OF ANY GIVEN AREA OR IF THE CHANGE IMPACTS PERFORMANCE.

8. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR THE GENERAL CONSTRUCTION OF THE BUILDING, FOR FLOORS AND CEILING HEIGHTS, FOR LOCATIONS OF WALLS, PARTITIONS, BEAMS, ETC.

9. THE CONTRACTOR SHALL REVIEW THE EQUIPMENT REQUIREMENTS PRIOR TO BEGINNING WORK TO VERIFY ALL REQUIRED CONNECTIONS AND CONTACT THE ENGINEER TO CLARIFY ANY DISCREPANCIES.

10. THE CONTRACTOR SHALL VERIFY ALL LISTED MODEL NUMBERS WITH MANUFACTURERS TO INSURE PROPER APPLICATION OF EQUIPMENT.

11. EQUIPMENT AND MATERIALS SHALL BE HANDLED, STORED AND PROTECTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

12. MATCH EXISTING SYSTEM MATERIALS.

13. GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS AFTER DATE OF FINAL ACCEPTANCE. ALL GUARANTEE FAILURES SHALL BE CORRECTED OR REPLACED BY CONTRACTOR AS SOON AS POSSIBLE AFTER NOTIFICATION OF SUCH FAILURE. ADDITIONAL GUARANTEES/WARRANTIES MAY BE REQUIRED.

14. OPERATING AND MAINTENANCE MANUALS: FURNISH OWNER THREE COMPLETE BOOKLETS CONTAINING EQUIPMENT ENGINEERING DATA, OPERATING AND MAINTENANCE INSTRUCTIONS, CONTROL WIRING DIAGRAMS INDICATING CONTROL EQUIPMENT AND FUNCTION. IN ADDITION, CONTRACTOR SHALL INSTRUCT OWNERS AND/OR THEIR REPRESENTATIVES ON PROPER OPERATION AND SERVICING OF EQUIPMENT.

SHEET METAL DUCTWORK:

A. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL AND SHALL CONFORM IN ALL RESPECTS TO THE RECOMMENDATIONS OF SMACNA AND THE LATEST EDITION OF ASHRAE AND SMACNA, REGARDING DUCT WEIGHTS, SEAMS, JOINTS, CONSTRUCTION, GAUGES, REINFORCING AND ASSEMBLY. SCREWS SHALL BE STAINLESS, CADMIUM OR ZINC PLATED STEEL. PROVIDE APPROVED AIR TURNING VANES IN ALL RECTANGULAR OR SHORT RADIUS ELBOWS. ANY CHANGE IN DIRECTION GREATER THAN 30 DEGREES IN RECTANGULAR DUCTWORK SHALL INCORPORATE TURNING VANES WITH THE LEADING EDGE OF THE VANES PARALLEL TO THE INTENDED AIRSTREAM.

B. ANY DUCTWORK THAT VIBRATES, BUCKLES, WARPS, SAGS, RUMBLES OR IS NOT AIRTIGHT FOR THE SERVICE REQUIRED SHALL BE CORRECTED OR REPLACED AT THE OWNER'S DISCRETION AND THE CONTRACTOR'S COST.

C. VARIATION OF DUCT CONFIGURATION OR SIZES TO BE INCORPORATED IN THE SHOP DRAWINGS. SIZE ROUND DUCTS INSTALLED IN PLACE OF RECTANGULAR DUCTS IN ACCORDANCE WITH ASHRAE TABLE OF EQUIVALENT RECTANGULAR AND ROUND DUCTS.

D. INSTALL AND SEAL ALL DUCTS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. SEAL TO SMACNA SEAL CLASS "A". JOINT SEALER SHALL BE UL LABELED AND MEET 25/50 FLAME/SMOKE SPREAD REQUIREMENTS. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. CONNECT TERMINAL UNITS TO SUPPLY DUCTS DIRECTLY. DO NOT USE FLEXIBLE DUCT TO CONNECT TO TERMINAL UNIT. PROVIDE ACCESS PANELS OR DOORS IN CEILINGS OR WALLS AND ACCESS DOORS IN DUCTWORK AS REQUIRED FOR ACCESS TO ITEMS OF EQUIPMENT MOUNTED INSIDE THE DUCTS.

E. MATERIALS (1) GALVANIZED STEEL DUCTS: ASTM 1525 AND ASTM A527 GALVANIZED STEEL SHAFT, LOCK-FORMING QUALITY, HAVING G60 ZINC COATING IN CONFORMANCE WITH ASTM A90.

F. MANUFACTURED DUCTWORK AND FITTINGS. MANUFACTURE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. AND AS INDICATED. MANUFACTURERS: EASTERN SHEET METAL, MONROE METALS, SEMCO, UNITED SHEET METAL.

TESTING, ADJUSTING, AND BALANCING:

A. THE TESTING, ADJUSTING AND BALANCING (TAB) CONTRACTOR SHALL BE CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB).

B. THE TAB SERVICES SHALL INCLUDE TESTING, ADJUSTING AND BALANCING OF ALL NEW AND RENOVATED AIR, HYDRONIC AND STEAM, HEATING AND EXHAUST SYSTEMS AS SHOWN AND SPECIFIED ON THE SCHEDULES AND CONTRACT DOCUMENTS AND MAKE REPORTS/SUBMITTALS AS DESCRIBED IN THIS SECTION.

C. PRIOR TO BID, THE TAB CONTRACTOR SHALL REVIEW THE MECHANICAL PLANS AND SPECIFICATIONS. THE TAB CONTRACTOR SHALL IDENTIFY ANY OMISSIONS OR DISCREPANCIES THAT WILL PRECLUDE THE PROPER BALANCING OF THE SYSTEMS AND REPORT SAME TO THE ENGINEER IN A FORMAL REPORT.

D. THE TAB CONTRACTOR SHALL INSPECT INSTALLATION WORK RELATING TO SYSTEMS TO BE TESTED AND BALANCED UNDER THIS SECTION AND SUBMIT A WRITTEN REPORT TO THE ENGINEER AND OWNER IDENTIFYING ANY WORK THAT HAS NOT BEEN INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL ISSUES RESULTING IN THE TAB CONTRACTOR'S INABILITY TO FINALIZE HIS TAB REPORT OR RESOLVE HIS DEFICIENCY REPORTS SHALL BE RESOLVED PRIOR TO A TAB REPORT BEING SENT TO THE ENGINEER FOR HIS REVIEW. THE ENGINEER MAY REJECT THE TAB REPORT IF THESE DEFICIENCIES EXIST. THE MECHANICAL CONTRACTOR SHALL BEAR ANY AND ALL EXTRA COSTS RESULTING IN THE TAB CONTRACTOR HAVING TO MAKE ADDITIONAL TRIPS TO THE PROJECT SITE BECAUSE OF INCOMPLETE WORK. IT IS IMPERATIVE, THEREFORE THAT THE MECH CONTRACTOR ENSURE HIS INSTALLATION IS FUNDAMENTALLY AND CONTRACTUALLY COMPLETE PRIOR TO NOTIFYING THE TAB CONTRACTOR TO PERFORM HIS PRE-TAB INSPECTION. THE DUCTWORK SHALL BE LEFT UN-INSULATED UNTIL THE TAB CONTRACTOR AND/OR THE ENGINEER CAN REVIEW INSTALLED DUCTWORK CONSTRUCTION. IF THE SYSTEM IS REPORTED WITHOUT ANY DEFICIENCIES OR MINOR ONES THAT WOULD NOT AFFECT FINAL TAB, THE TAB CONTRACTOR MAY START HIS ACTUAL TAB ON THE FIRST VISIT. THE TAB CONTRACTOR'S DEFICIENCY REPORTS SHALL BE CONSIDERED A SUPPLEMENT TO THE ENGINEER'S PUNCHLIST AND BE ADDRESSED/RESOLVED BY THE MECH CONTRACTOR IN LIKE MANNER.

E. THE TAB CONTRACTOR SHALL ADJUST, TEST AND CONFIRM AIR FLOW RATES, PRESSURE DROPS, PRESSURE, TEMPERATURE AND HEAT TRANSFER PERFORMANCE, ETC., OF ALL HVAC SYSTEMS PROVIDED AND RENOVATED UNDER THIS CONTRACT. PERFORM THE TESTING AND BALANCING WORK WITH METHODS AND TEST FORMS PUBLISHED BY AABC NATIONAL STANDARDS FOR FIELD MEASUREMENTS AND INSTRUMENTATION (NO. 71879, 2ND EDITION OR LATER EDITION) OR THE NEBB EQUIVALENT.

F. GENERAL BALANCING PROCEDURES AND RELATED WORK: BALANCING SHALL ACHIEVE ALL DESIGN AIR FLOW RATES WITHIN +/- 10%. VERIFY THAT ALL THERMOSTATS AND OTHER CONTROLS AND THE DEVICES THEY CONTROL (SUCH AS VALVES AND DAMPERS) OPERATE AS THEY ARE INTENDED.

G. DUCTED AIR SYSTEM ADJUSTMENTS, MEASUREMENTS, AND RECORDINGS: ADJUST ZONE DUCTS TO WITHIN CFM REQUIREMENTS. AT LEAST ONE ZONE BALANCING DAMPER SHALL BE COMPLETELY OPEN. ADJUST THE MAIN DUCTS TO WITHIN DESIGN CFM REQUIREMENTS AND TRAVERSE FOR TOTAL CFM QUANTITIES. ADJUST BRANCH DUCTS TO WITHIN DESIGN CFM REQUIREMENTS. MULTI-DIFFUSER BRANCH DUCTS SHALL HAVE AT LEAST ONE OUTLET OR INLET VOLUME DAMPER COMPLETELY OPEN. TEST AND BALANCE EACH DIFFUSER, GRILLE, AND REGISTER TO WITHIN TEN PERCENT OF DESIGN REQUIREMENTS TO MAINTAIN ROOM PRESSURIZATION REQUIREMENTS. IDENTIFY THE LOCATION OF AREA OF EACH GRILLE, DIFFUSER, AND REGISTER ON AIR OUTLET SHEETS.

H. TAB AGENCY TO BE ENGAGED BY OWNER.

DUCTWORK / PIPING INSULATION:

A. GLASS FIBER, FLEXIBLE - TYPE A: KNAUF, OWENS/CORNING, CERTAINTEED, MANVILLE.
INSULATION: ASTM C553 OF C612: FLEXIBLE, NON-COMBUSTIBLE BLANKET, "K"
VALUE: ASTM C518, 0.29 AT 75°. MAXIMUM SERVICE TEMPERATURE: 250°.
MAXIMUM MOISTURE ABSORPTION: 0.20% BY VOLUME. DENSITY: 3/4 LB/CU FT. 2"
THICK: MINIMUM INSTALLED R-VALUE OF 6.

B. POLYISOCYANURATE RIGID BOARD. - KNAUF, OWENS/CORNING, CERTAINTEED, MANVILLE.
INSULATION: ASTM C612: RIGID, NON COMBUSTIBLE BLANKET, "K" VALUE: 0.24 AT 75° F.
MAXIMUM SERVICE TEMPERATURE 450°F. MAXIMUM WATER VAPOR ABSORPTION: 5.0 PERCENT.
MAXIMUM DENSITY: 8.0 LB/CU FT. MINIMUM INSTALLED R-VALUE OF 8.

C. VAPOR BARRIER JACKET: KRAFT PAPER REINFORCED WITH GLASS FIBER YARD AND BONDED TO ALUMINUM FILM. MOISTURE VAPOR TRANSMISSION: ASTM E96: 0.04 PERM. SECURE WITH PRESSURE SENSITIVE TAPE.
VAPOR BARRIER TAPE: MANUFACTURERS: AS RECOMMENDED BY INSULATION MANUFACTURER. KRAFT PAPER REINFORCED WITH GLASS FIBER YARD AND BONDED TO ALUMINIZED FILM. WITH PRESSURE SENSITIVE, RUBBER-BASED ADHESIVE.

D. DUCTWORK INSULATION SCHEDULE:

SERVICE	THICKNESS
SUPPLY	2"
RETURN	NONE
EXHAUST	NONE
SUPPLY AIR DIFFUSERS	2" ON BACK

E. HEATING HOT WATER SUPPLY AND RETURN, 200 DEG. F AND BELOW:
NPS 1-1/4" AND SMALLER:
1. MINERAL FIBER, PREFORMED PIPE, TYPE I: 1-1/2" THICK.
2. CELLULAR GLASS: 2" THICK.
NPS 1-1/2" AND LARGER:
1. MINERAL FIBER, PREFORMED PIPE, TYP I: 2" THICK.
2. CELLULAR GLASS: 2-1/2" THICK.

F. STEAM AND STEAM CONDENSATE, 250 DEG. F AND BELOW:
NPS 3-1/2" AND SMALLER:
1. MINERAL FIBER, PREFORMED PIPE, TYPE I OR II: 2-1/2" THICK.
2. CELLULAR GLASS: 3" THICK.
STEAM AND STEAM CONDENSATE OUTDOOR: CELLULAR GLASS

F. INDOOR, FIELD APPLIED JACKET:
1. INSTALL JACKET OVER INSULATION MATERIAL. FOR INSULATION WITH FACTORY APPLIED JACKET, INSTALL FIELD APPLIED JACKET OVER THE FACTORY-APPLIED JACKET.
2. PIPING, FLANGES, FITTINGS, VALVES, AND SPECIALTIES CONCEALED AND EXPOSED:
PVC: 20 MILS THICK.

G. OUTDOOR, FIELD APPLIED JACKET:
1. INSTALL JACKET OVER INSULATION MATERIAL. FOR INSULATION WITH FACTORY APPLIED JACKET, INSTALL FIELD APPLIED JACKET OVER THE FACTORY-APPLIED JACKET.
2. PIPING CONCEALED OR EXPOSED: ALUMINUM, CORRUGATED: 0.032 INCH THICK.

DUCT CONSTRUCTION SCHEDULE

DUCT SYSTEM	MATERIAL	PRESSURE CLASS (WC)	SEAL CLASS	LINER
SUPPLY AIR DUCT (UPSTREAM OF VAV)	GALVANIZED STEEL	+4"	A	NONE
SUPPLY AIR DUCT (DOWNSTREAM OF VAV)	GALVANIZED STEEL	+2"	A	NONE
RETURN/TRANSFER AIR DUCT	GALVANIZED STEEL	-1"	A	NONE
EXHAUST AIR DUCT	GALVANIZED STEEL	-1"	A	NONE

NOTES:
1. ALL DUCTWORK SHALL BE CONSTRUCTED PER THE SMACNA 'HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE', LATEST EDITION.
2. MINIMUM SHEET METAL GUAGE SHALL BE 24.
3. ALL FLEXIBLE DUCTWORK SHALL BE INSTALLED PER ADC "FLEXIBLE DUCT PERFORMANCE AND INSTALLATIONS STANDARDS", LATEST EDITION.

HYDRONIC PIPING/SPECIALTIES:

A. HOT-WATER HEATING PIPING SHALL BE CAPABLE OF WITHSTANDING THE FOLLOWING MINIMUM WORKING PRESSURE AND TEMPERATURE OF 150PSIG AT 200°F.

B. HOT-WATER HEATING PIPING ABOVEGROUND, NPS 2" AND SMALLER, SHALL BE ONE OF THE FOLLOWING:
1. TYPE L DRAWN-TEMPER COPPER TUBING, WROUGHT COPPER FITTING, AND SOLDERED JOINTS.
2. SCHEDULE 40 STEEL PIPE, WROUGHT-STEEL FITTINGS AND WROUGHT CAST OR FORGED STEEL FLANGES AND FLANGE FITTINGS, AND WELDED AND FLANGED JOINTS.

C. HOT-WATER HEATING PIPING ABOVEGROUND, NPS 2-1/2" AND LARGER, SHALL BE ONE OF THE FOLLOWING:
1. SCHEDULE 40 STEEL PIPE, WROUGHT-STEEL FITTINGS AND WROUGHT CAST OR FORGED STEEL FLANGES AND FLANGE FITTINGS, AND WELDED AND FLANGED JOINTS.
2. SCHEDULE 40 STEEL PIPE; GROOVED, MECHANICAL JOINT COUPLING AND FITTINGS; AND GROOVED MECHANICAL JOINTS.

D. LP STEAM PIPING, NPS 2" AND SMALLER:
1. SCHEDULE 40, TYPE S, GRADE B, STEEL PIPE: CLASS 125 CAST IRON FITTINGS; AND THREADED JOINTS.

E. AUTOMATIC CONTROL VALVES 2 1/2" AND LARGER: TWO WAY VALVES SHALL BE GLOBE-TYPE BODIES, AND SHALL COMPLY WITH THE FOLLOWING SELECTION CRITERIA.
1. GLOBE-STYLE VALVE MINIMUM BODY RATING FOR ANY VALVE IS 125PSI AND MAXIMUM FLUID TEMPERATURE OF 250°F.

F. AUTOMATIC CONTROL VALVES 2" AND SMALLER: TWO WAY VALVES SHALL BE BALL-TYPE BODIES, AND SHALL COMPLY WITH THE FOLLOWING SELECTION CRITERIA.
1. BALL-STYLE VALVE MINIMUM BODY RATING FOR ANY VALVE IS 125PSI AND MAXIMUM FLUID TEMPERATURE OF 250°F.
2. BODIES FOR VALVES 2" AND SMALLER SHALL BE BRASS OR BRONZE WITH NPT THREADED CONNECTIONS, AND SHALL BE RATED FOR ANSI CLASS 250 WORKING PRESSURE. SPRING LOADED PACKING SHALL BE REQUIRED TO PROTECT AGAINST LEAKAGE AT THE STEM.

G. COPPER-ALLOY BALL VALVES: SHALL BE TWO PIECE, BRONZE BODY WITH FULL-PORT, STAINLESS STEEL BALL; PTFE OR TFE SEATS; 150PSIG MINIMUM WORKING PRESSURE AND SHALL HAVE BLOWOUT-PROOF STEM.

H. FERROUS-ALLOY BALL VALVES: GENERAL - MSS SP-72, WITH FLANGED ENDS. CLASS 150, FULL PORT.

DUCTWORK ACCESSORIES:

A. FIRE DAMPERS:
TYPE: DYNAMIC; RATED AND LABELED ACCORDING TO UL 555 BY NRTL.
FIRE RATING: 1-1/2" RATED

B. COMBINATION FIRE/SMOKE DAMPER:
TYPE: DYNAMIC; RATED AND LABELED ACCORDING TO UL 555 AND UL 555S BY AN NRTL.
FIRE RATING: 1-1/2" RATED

C. VOLUME DAMPERS:
STANDARD STEEL, MANUAL VOLUME DAMPERS.
PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. NAILOR
2. RUSKIN
3. MESTEK

AIR DISTRIBUTION DEVICES:

A. SUPPLY/RETURN/EXHAUST AIR GRILLES SHALL BE AS SCHEDULED OR APPROVED EQUAL.

SINGLE-DUCT AIR TERMINAL UNIT:

A. CONFIGURATION: VOLUME-DAMPER ASSEMBLY INSIDE UNIT CASING WITH CONTROL COMPONENTS LOCATED INSIDE PROTECTIVE METAL SHROUD.

B. AIR INLET: ROUND STUB CONNECTION OR S-SLIP AND DRIVE CONNECTIONS FOR DUCT ATTACHMENT.

C. AIR OUTLET: S-SLIP AND DIVE CONNECTIONS.

D. REGULATOR ASSEMBLY: EXTRUDED-ALUMINUM OR GALVANIZED-STEEL COMPONENTS; KEY DAMPER BLADES ONTO SHAFT WITH NYLON-FITTED PIVOT POINTS LOCATED INSIDE UNIT CASING.

E. AUTOMATIC FLOW-CONTROL ASSEMBLY: COMBINED SPRING RATES SHALL BE MATCHED FOR EACH VOLUME-REGULATOR SIZE WITH MACHINED DASHPOT FOR STABLE OPERATION.

F. AIR FLOW STATION WITH SENSORS.

G. HOT-WATER HEATING COILS: COPPER TUBE, MECHANICALLY EXPANDED INTO ALUMINUM-PLATE FINS; LEAK TESTED UNDERWATER TO 200PSIG; AND FACTORY INSTALLED.

H. DIRECT DIGITAL CONTROLS: SINGLE-PACKAGE, FACTORY INSTALLED, ALERTON UNITARY CONTROLLER AND ACTUATOR AS PROVIDED BY HOFFMAN BUILDING TECHNOLOGIES, FOR HOSPITALS EXISTING TEMPERATURE CONTROL SYSTEM.

PACKAGED DES/DX MIXED AIR UNIT WITH DESICCANT WHEEL:

A. CABINET: THE CASING SHALL BE A 2" METAL WALL CONSTRUCTED OF 20 GA GALVANIZED STEEL EXTERIOR AND 20GA GALVANIZED STEEL INTERIOR. ALL EXTERIOR PANEL ASSEMBLIES SHALL BE FOAM INSULATED 2" THICK TO REDUCE HEAT TRANSFER TO THE EXTERIOR ENVIRONMENTS. ALL JOINTS SHALL BE CAULKED AIRTIGHT WITH A SILICONE SEALANT. THE EXTERIOR OF THE UNIT SHALL BE PRE-PAINTED WITH A CORROSION RESISTANT POLYESTER RESIN COATING. THE UNDERSIDE OF THE FLOOR DECKS OF EACH SECTION SHALL BE SPRAY FOAM INSULATED 2" THICK. THE FLOOR DECKS SHALL BE MINIMUM 20GA GALVANIZED STEEL. THIS FLOOR SHALL SUSTAIN THE EQUIPMENT LOADING AND NORMAL MAINTENANCE LOADING FOR THE UNIT. CLOSURES SHALL BE MINIMUM OF 20 GA GALVANIZED STEEL AND SHALL PROVIDE SOLID-OFF INSIDE OF THE UNIT HOUSING WALLS. NO AIR BYPASS OR LEAKAGE AROUND THE COMPONENTS WILL BE ALLOWED.

B. BASE FRAME CONSTRUCTION: UNITS ARE TO HAVE MECHANICALLY FASTENED GALVANIZED STEEL BASE FRAME. ALL BASE FRAMES TO BE SUITABLY REINFORCED AND BRACED TO PERMIT THE LOADING, SHIPPING, UNLOADING AND RIGGING TO THE UNIT. ALL BASE FRAMES WILL ALSO BE CONSTRUCTED TO ALLOW FOR GENERAL HANDLING OF THE COMPLETED SECTIONS WITHOUT DAMAGE TO THE EXTERNAL OR INTERNAL COMPONENTS OR MISALIGNMENT OF FACTORY ASSEMBLED COMPONENTS. LIFTING LUGS SHALL BE PROVIDED AS DESIGNATED LOCATIONS ON THE BASE FRAME FOR LOADING, UNLOADING AND INSTALLATION OF THE UNIT.

C. FANS: THE CENTRIFUGAL FAN CONSISTS OF A MOTOR DIRECTLY MOUNTED TO A BLADE ASSEMBLY/HUB THAT DRAWS IN THE DESIRED AIRFLOW. THE BLADE ASSEMBLY IS CONSTRUCTED OUT OF CORROSION RESISTANT STEEL/ALUMINUM.

D. DESICCANT WHEEL:
1. WHEEL MEDIA, WHEELS SHALL BE CONSTRUCTED OF CORRUGATED SYNTHETIC MEDIA, WITH A DESICCANT INTIMATELY BOUND AND UNIFORMLY AND PERMANENTLY DISPERSED THROUGHOUT THE MATRIX STRUCTURE OF THE MEDIA. ROTORS WITH DESICCANTS COATED, BONDED, OR SYNTHESIZED ONTO THE MEDIA ARE NOT ACCEPTABLE DUE TO DELAMINATION AND OR EROSION OF THE DESICCANT MATERIAL OVER TIME. MEDIA SHALL BE SYNTHETIC TO PROVIDE RESISTANCE TO THE CORROSIVE EFFECTS FROM HOSPITAL AND EXTERNAL OUTDOOR AIR CONDITIONS. COATED ALUMINUM IS NOT ACCEPTABLE. FACE FLATNESS OF THE WHEEL SHALL BE MAXIMIZED (+/- 0.032 IN) IN ORDER TO MINIMIZE WEAR ON INNER SEAL SURFACES AND TO PREVENT CROSS LEAKAGE. THE MINIMUM ACCEPTABLE DEHUMIDIFICATION PERFORMANCE SHALL BE AS SPECIFIED IN THE DRAWINGS.
2. DESICCANT MATERIAL: THE DESICCANT MATERIAL SHALL EXHIBIT A TYPE III ISOTHERM TO INSURE PROPER PERFORMANCE WITH LOW TEMPERATURES OF REGENERATION. LITHIUM CHLORIDE, OR LITHIUM CHLORIDE CONTAINING DESICCANT SHALL NOT BE USED BECAUSE OF THE DELIQUESCENT PROPERTY OF LICL2 DURING THE ADSORPTION PROCESS. THE DESICCANT MATERIAL SHALL BE ABLE TO MAINTAIN A MINIMUM OF 90% OF ITS ADSORPTION CAPACITY AFTER 10 YEARS OF SERVICE LIFE.
3. WHEEL MEDIA SUPPORT SYSTEM: THE WHEEL FRAMES SHALL CONSIST OF EVENLY SPACED STEEL SPOKES, GALVANIZED STEEL OUTER BAND AND RIGID CENTER HUB. THE WHEEL CONSTRUCTION SHOULD ALLOW FOR POST FABRICATION WHEEL ALIGNMENT.
4. WHEEL SEALS: THE WHEEL FACE SEALS SHALL BE HIGH TEMPERATURE EXTRUDED CONTACT SEALS WHICH ARE EASILY ADJUSTABLE, AND WHICH PREVENT LEAKAGE AT UP TO 8" W.C. DIFFERENTIAL PRESSURE. FACE SEAL SHALL BE TEFLON COATED TO MAXIMIZE WEAR RESISTANCE. PERIPHERY SEALS WILL BE A CONTACT BRUSH SEAL WHICH IS EASILY ADJUSTABLE.
5. WHEEL CASSETTE: WHERE USED, CASSETTES SHALL BE FABRICATED OF HEAVY DUTY REINFORCED MINIMUM 14GA GALVANIZED STEEL. BEARINGS SHALL BE INBOARD, ZERO MAINTENANCE, PERMANENTLY SEALED ROLLER BEARINGS OR ALTERNATIVELY, SEALED PILLOW BLOCK BEARINGS FOR LARGER WHEELS. DRIVE SYSTEMS SHALL CONSIST OF FRACTIONAL HORSEPOWER A.C. DRIVE GEAR MOTORS. THE DRIVE MECHANISM SHALL BE EITHER A HEAVY DUTY CHAIN AND SPROCKET DRIVE ASSEMBLY OR BELT WITH TENSION DEVICE. CASSETTE CONSTRUCTION MAYBE INCORPORATED DIRECTLY INTO UNIT IN LIEU OF SEPARATE CASSETTE.

E. COMPRESSOR: THE COMPRESSOR SHALL BE HIGH EFFICIENCY ORBITING SCROLL TYPE THAT IS OF A HERMETICALLY-SEALED CONSTRUCTION. THE COMPRESSOR SHALL BE DESIGNED FOR REFRIGERANT CYCLE OPERATION AND USES R4548 REFRIGERANT AS A WORKING FLUID FOR COMPRESSION. THE COMPRESSOR SHALL BE A DIGITAL SCROLL TYPE/VARIABLE SPEED COMPRESSOR FOR VARIABLE COOLING CAPACITY.

F. EVAPORATOR COILS: THE EVAPORATORS SHALL BE OF A FIN-TUBE AIR-TO-REFRIGERANT TYPE THAT IS CONSTRUCTED OF A GALVANIZED STEEL FRAME. THE EVAPORATOR COIL(S) ARE TO HAVE A SUFFICIENT NUMBER OF ROWS OF COPPER TUBES TO AID HEAT TRANSFER BETWEEN THE REFRIGERANT AND AIR. THE TUBE DESIGN SHALL ALLOW FOR ONE CIRCUIT PER 6000 BTU/HR HEAT TRANSFER TO MINIMIZE PRESSURE DROP. ALUMINUM FINS WITH CORRUGATED SURFACES SHALL BE INCORPORATED WITH THE CONSTRUCTION OF THE COIL.

G. CONDENSER COIL: THE CONDENSERS SHALL BE OF A FIN-TUBE AIR-TO-REFRIGERANT TYPE THAT IS CONSTRUCTED OF A GALVANIZED STEEL FRAME. THE CONDENSERS ARE TO HAVE A SUFFICIENT NUMBER OF ROWS OF COPPER TUBES TO AID HEAT TRANSFER BETWEEN THE REFRIGERANT AND AIR. THE TUBE DESIGN SHALL ALLOW FOR ONE CIRCUIT PER 6000 BTU/HR HEAT TRANSFER TO MINIMIZE PRESSURE DROP. ALUMINUM FINS WITH CORRUGATED SURFACES SHALL BE INCORPORATED WITH THE CONSTRUCTION OF THE COIL.

H. DRAIN PAN: THE DRAIN PAN SHALL BE CONSTRUCTED OF WELDED 304 S.S. THE COOLING COIL DRAIN PAN SHALL COVER THE ENTIRE LENGTH OF THE COIL AND EXTEND A MINIMUM OF 4 INCHES BEYOND THE AIR LEAVING SIDE OF THE COIL.

I. CONTROLS: THE UNIT SHALL HAVE A MICROPROCESSOR CONTROL CAPABLE OF COMMUNICATIONS WITH THE BUILDING MANAGEMENT SYSTEM USING BACNET IP/MSTP PROTOCOLS. CONTROL OPTIONS SHALL INCLUDE AN ECONOMIZER MODE THAT SHUTS DOWN THE ENTHALPY WHEEL. THE REGENERATION FAN SPEED SHALL BE CONTROLLED BY THE MICROPROCESSOR TO CONTROL DEHUMIDIFICATION. THE UNIT SHALL HAVE APPROPRIATE TEMPERATURE AND HUMIDITY SENSORS TO PROPERLY CONTROL THE UNIT SUPPLY CONDITIONS.

J. DAMPERS: THE UNIT WILL BE EQUIPPED WITH DAMPERS TO CONTROL OUTDOOR/RETURN AIR AND RELIEF AIR TO AND FROM THE UNIT. THE DAMPERS SHALL HAVE BUILT IN MECHANISMS FOR VARYING THE POSITION OF BLADES FOR CONTROLLING AIRFLOW, WITH AN ACTUATOR.

AIR FLOW MEASURING STATIONS (THERMAL DISPERSION TYPE):

A. MANUFACTURERS
1. EBTRON SHALL BE THE BASIS OF DESIGN.

B. TYPES OF MOUNTING APPLICATION
1. FAN-INLET.
2. DUCT MOUNTED PROBE.

C. OPERATING PRINCIPLE
1. AIR FLOW MEASUREMENT DEVICES SHALL USE THE PRINCIPLE OF THERMAL DISPERSION AND PROVIDE ONE SELF-HEATED BEAD-IN-GLASS THERMISTER AND ONE ZERO POWER BEAD-IN-GLASS THERMISTOR AT EACH SENSING NODE.
2. MEASUREMENT TECHNOLOGIES USING "CHIP-IN-GLASS", "CHIP-IN-EPOXY" OR OTHER "CHIP" TYPE THERMISTORS FOR THE HEATED SENSOR COMPONENT ARE NOT ACCEPTABLE.
3. PITOT TUBES, PIPOT ARRAYS, PIEZO RINGS AND OTHER DIFFERENTIAL PRESSURE BASED DEVICES ARE NOT ACCEPTABLE.
4. VORTEX SHEDDING DEVICES ARE NOT ACCEPTABLE.

D. SPECIFICATION
1. TRANSMITTER POWERED BY 24VAC OR VDC POWER SUPPLY.
2. AIR FLOW RANGE: 0 TO 10,000 CFM (FAN INLET)
0 TO 4,000 CFM (DUCT MOUNTED)
3. TRANSMITTER SIGNAL RANGE: 0-10 VDC OR 4-20mA
4. AIR FLOW MEASURING ACCURACY: +/-3% OF MEASURED FLOW.
5. TEMPERATURE READING RANGE: -20 TO 140°F
6. TEMPERATURE READING ACCURACY: +/-0.15°F
7. OPERATING TEMPERATURE RANGE: -20 TO 120°F
8. OPERATING HUMIDITY RANGE: 5-95% R.H., NON-CONDENSING.

SHOP DRAWING SUBMITTALS:

A. PROVIDE COPIES OF SHOP DRAWINGS FOR ALL MATERIALS AND COMPONENTS.

BASIS OF DESIGN:

A. EQUIPMENT SCHEDULED IN THESE DRAWINGS HAVE BEEN USED AS THE BASIS OF DESIGN. WHERE INDICATED, ALTERNATIVE MANUFACTURERS WILL BE CONSIDERED; HOWEVER, IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL REQUIRED SIZES, WEIGHTS, ELECTRICAL CONNECTIONS, AND CLEARANCES ARE COMPATIBLE WITH THE DESIGN CONCEPT SHOWN ON THE DRAWINGS. THESE CHANGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALTERNATIVE MANUFACTURERS LISTED ARE CONSIDERED GENERALLY ACCEPTABLE PROVIDERS; HOWEVER THEIR SPECIFIC PRODUCTS HAVE NOT BEEN EVALUATED FOR THIS DESIGN.

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NC ENGINEERING FIRM LICENSE NO. C-2194

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

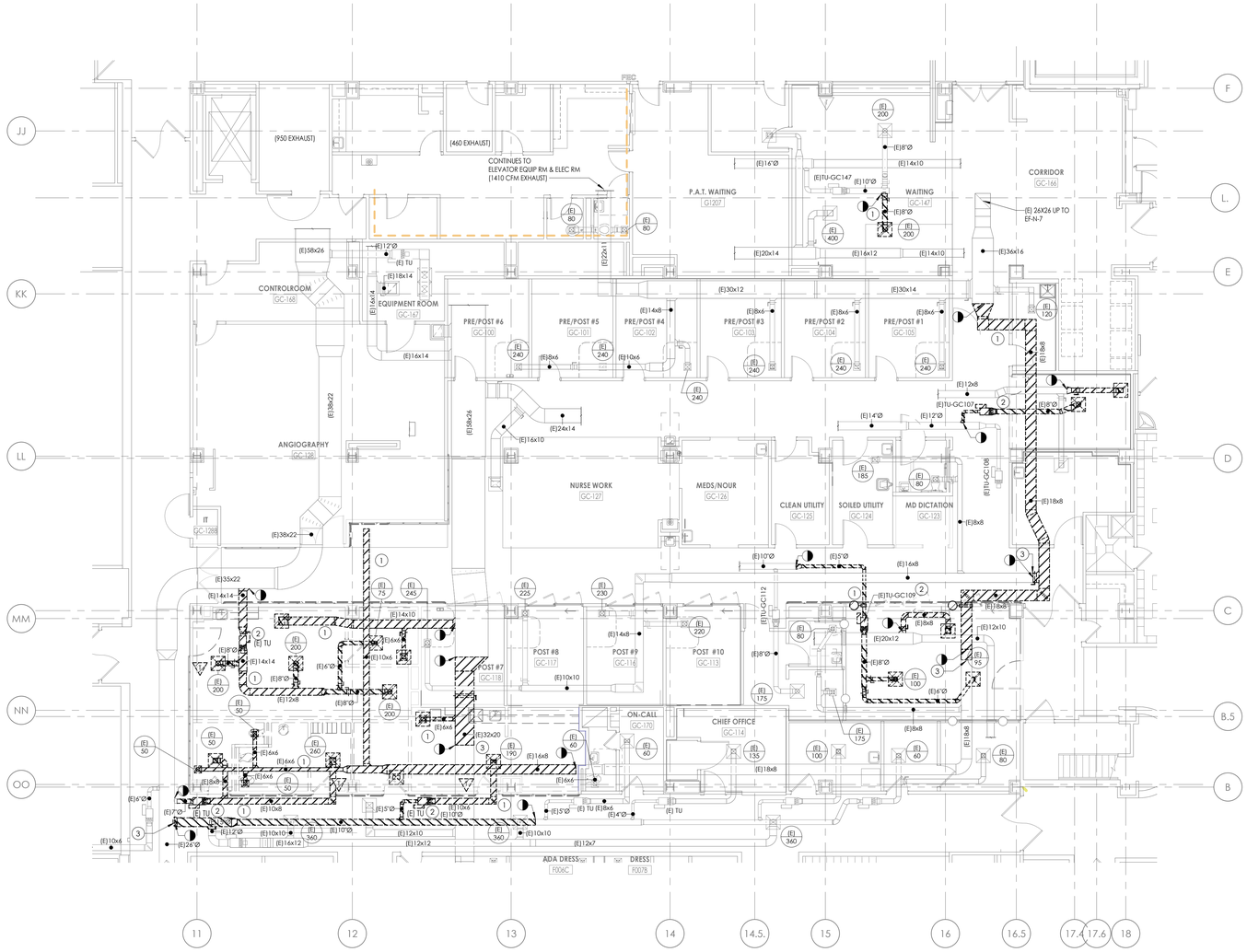
SHEET INFORMATION
Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: LBS
Checked By: GAK
Drawing Title: HVAC SPECIFICATIONS
Drawing Number: H001

GENERAL NOTES

1. WHERE EXISTING BUILDING SERVICES AND/OR EQUIPMENT THAT IS TO REMAIN IN USE ARE REQUIRED TO BE SHUT DOWN, COORDINATE WITH THE OWNER'S REPRESENTATIVE. INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS. INCLUDE ALL COSTS FOR PROVIDING TEMPORARY SERVICE WHERE SHUT DOWN MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS.
2. PRIOR TO CONSTRUCTION, MEASURE AND RECORD AIRFLOWS FOR ALL SUPPLY DIFFUSERS, RETURN GRILLES AND EXHAUST REGISTERS SHOWN ON THIS FLOOR PLAN. AFTER CONSTRUCTION IS COMPLETE, REBALANCE THE DIFFUSERS, GRILLES AND REGISTERS TO THEIR RESPECTIVE PRECONSTRUCTION READINGS UNLESS OTHERWISE NOTED.

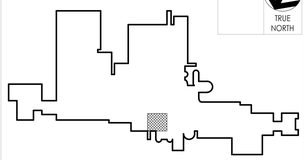
KEY NOTES

1. DEMOLISH EXISTING DUCTWORK BACK TO POINT OF REMOVAL SHOWN.
2. DEMOLISH EXISTING TERMINAL UNIT, ASSOCIATED TEMPERATURE SENSOR AND CONTROLS.
3. CONTRACTOR TO COORDINATE WITH HOSPITAL FACILITIES TO PHASE THIS WORK TO MINIMIZE DOWN TIME OF SPACES SERVED BY THIS SYSTEM.



1 / H100 **PARTIAL GROUND FLOOR HVAC DEMOLITION PLAN**
1/8" = 1'-0"

KEY PLAN:



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Drawn By: LBS
Checked By: GAK
Drawing Title: PARTIAL GROUND FLOOR HVAC DEMOLITION PLAN
Drawing Number: -
H100

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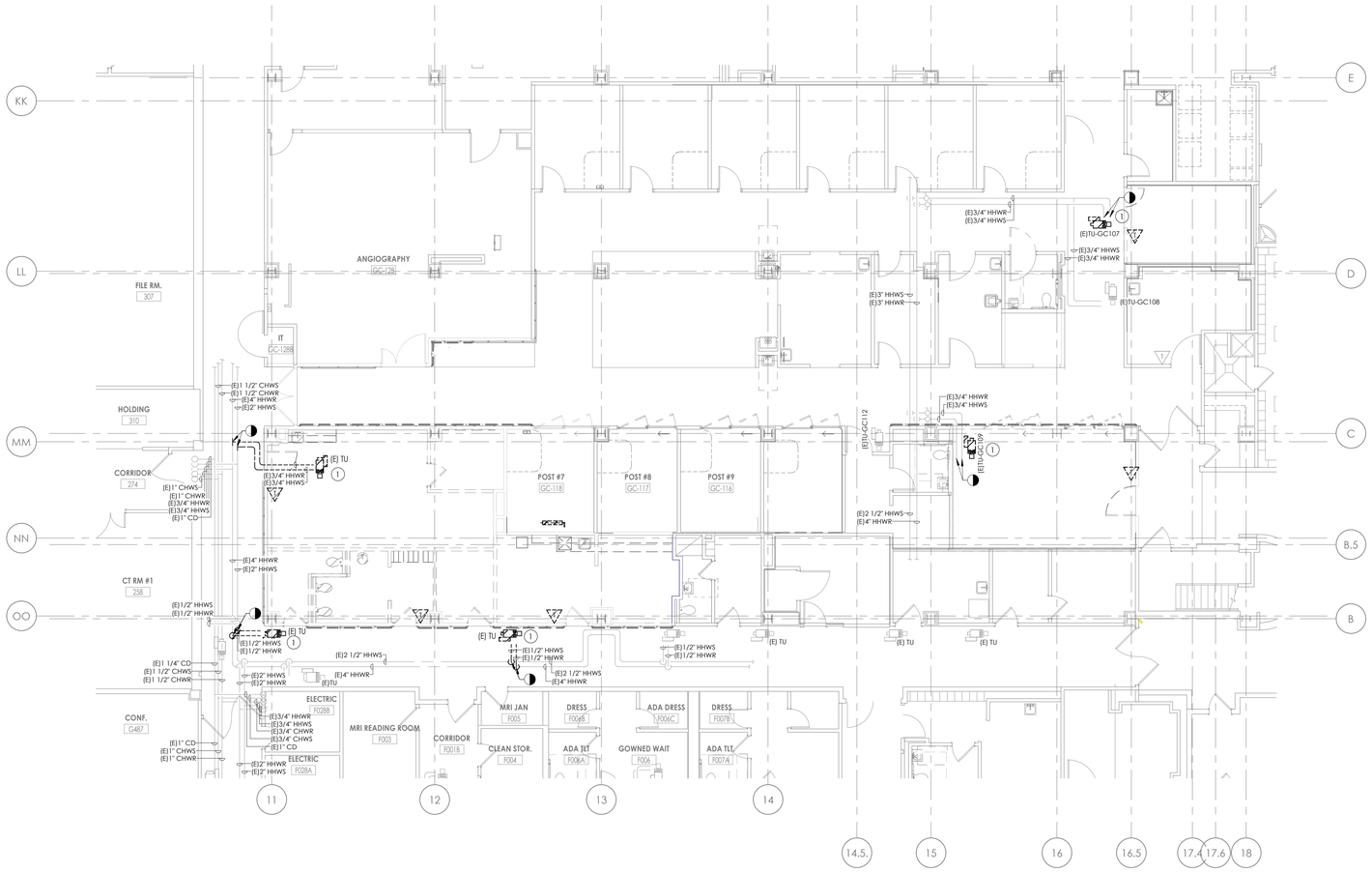
GENERAL NOTES

1. WHERE EXISTING BUILDING SERVICES AND/OR EQUIPMENT THAT IS TO REMAIN IN USE ARE REQUIRED TO BE SHUT DOWN, COORDINATE WITH THE OWNER'S REPRESENTATIVE. INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS. INCLUDE ALL COSTS FOR PROVIDING TEMPORARY SERVICE WHERE SHUT DOWN MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS.
2. PRIOR TO CONSTRUCTION, MEASURE AND RECORD AIRFLOWS FOR ALL SUPPLY DIFFUSERS, RETURN GRILLES AND EXHAUST REGISTERS SHOWN ON THIS FLOOR PLAN. AFTER CONSTRUCTION IS COMPLETE, REBALANCE THE DIFFUSERS, GRILLES AND REGISTERS TO THEIR RESPECTIVE PRECONSTRUCTION READINGS UNLESS OTHERWISE NOTED.

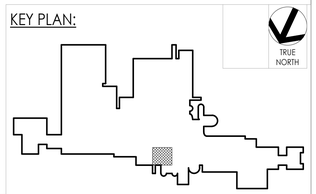
KEY NOTES

1. DEMOLISH EXISTING TERMINAL UNIT PIPING BACK TO POINT OF ORIGIN SHOWN AND CAP PIPING AT MAIN.



1 H110 **PARTIAL GROUND FLOOR HVAC PIPING DEMOLITION PLAN**
1/8" = 1'-0"

KEY PLAN:



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PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 27581 GREGORY A. KYLER 11-14-25 18089

SHEET INFORMATION

Issued	Scale
11/14/2025	1/8" = 1'-0"

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By	Checked By
LBS	GAK

Drawing Title
PARTIAL GROUND FLOOR HVAC PIPING DEMOLITION PLAN

Drawing Number
-
H110

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GENERAL NOTES

1. RE-USE 24V CONTROL POWER FROM VAV BOXES THAT WERE REMOVED TO POWER NEW VAV BOXES.
2. COORDINATE DUCTWORK ROUTING WITH EXISTING CONDITIONS. SOME EXISTING ITEMS MAY NEED TO BE RE-LOCATED TO ALLOW DUCTWORK TO BE ROUTED INTO THE CATH LAB SPACE.
3. BALANCE EXISTING DIFFUSERS, REGISTERS, AND GRILLES SHOWN ON THIS PLAN TO THE AIRFLOWS INDICATED. WHERE NO AIRFLOWS ARE LISTED, MATCH PRE-CONSTRUCTION AIRFLOW READINGS.

KEY NOTES

1. RTU-40 EMERGENCY STOP. COORDINATE EXACT LOCATION WITH HOSPITAL STAFF.
2. BOTTOM OF RETURN GRILLE MOUNTED 8" ABOVE FINISHED FLOOR.
3. RE-BALANCE EF-N-7 FOR NEW EXHAUST AIR FLOWS. 5,340 CFM. PROVIDE NEW BELTS AND SHEAVES.
4. RE-BALANCE EXISTING RETURN GRILLE FROM 790 CFM TO 670 CFM TO OFFSET AIR THAT IS NOW BEING EXHAUSTED AT NEW PRE/POST ROOMS.
5. PROVIDE ANTEC LUME 10 ROOM PRESSURE MONITOR. TIE INTO BMS. PROVIDE 24V CONTROL POWER TO UNIT. CONTRACTOR SHALL ADJUST THE RETURN AIR CFM TO ACHIEVE POSITIVE ROOM PRESSURE.
6. CONTRACTOR SHALL RE-PROGRAM THE MAX AIRFLOW TO 400 CFM AND THE MIN. AIRFLOW TO 240 CFM FOR TU-GC-147.
7. EXISTING WALL IS NO LONGER FIRE RATED. EXISTING FIRE DAMPER SHALL BE LOCKED OPEN.

ROOM NUMBER	ROOM NAME	FLOOR AREA (SQ.FT.)	CEILING HEIGHT (FEET)	ROOM VOLUME (CU.FT.)	VENTILATION RATE TABLES - DHSR: TOTAL AIR ACH	OUTSIDE AIR ACH	ALL EXHAUSTED ACH (Y/N)	PRESSURE RELATIONSHIP
GC-119	CATH LAB (CLASS 2 IMG)	772	9.6	7411	18.7	3.7	NR	POS (+)
GC-120	CONTROL ROOM	162	9.0	1458	8.2	2.0	NR	NR
GC-121	SYSTEMS COMPONENT ROOM	163	9.0	1467	42.0	2.0	NR	NR
GC-147.1	CONSULT ROOM	80	9.0	720	5.8	2.0	NR	NR
GC-110	PRE/POST ROOM #11	193	9.0	1737	10.0	2.0	Y	NEG (-)
GC-109	PRE/POST ROOM #12	182	9.0	1638	10.0	2.0	Y	NEG (-)
GC-107	PRE/POST ROOM #13	175	9.0	1575	10.0	2.0	Y	NEG (-)

2 / H200 **DHSR VENTILATION RATE TABLE**
3/16" = 1'-0"

AHU-2 DESIGN CRITERIA

EXISTING SUPPLY = 34,475 CFM
EXISTING RETURN = 27,076 CFM
EXISTING OUTSIDE AIR = 9,755 CFM
EXISTING EXHAUST SERVING AHU-2 = 7,810 CFM

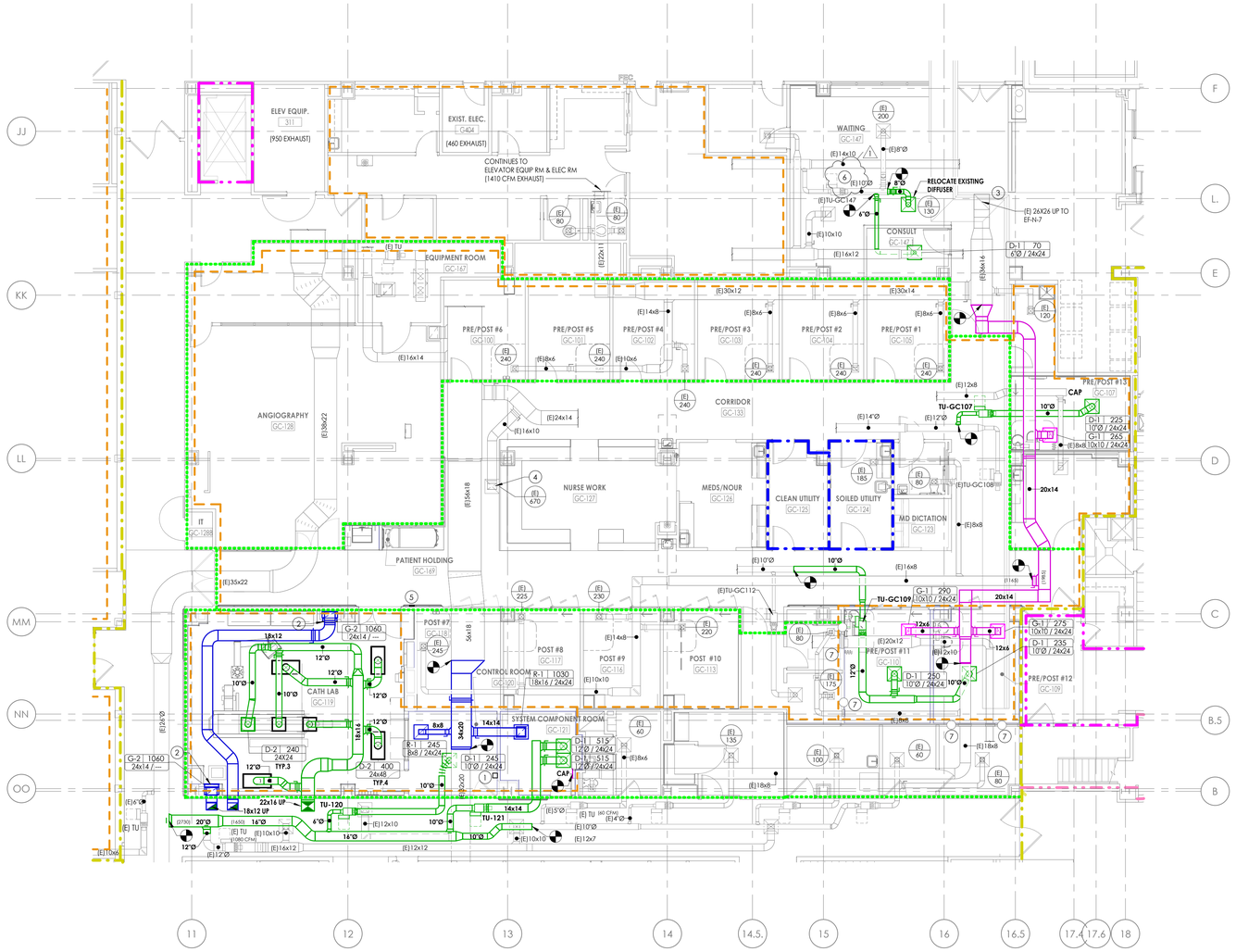
NEW SUPPLY = 35,015 CFM
NEW RETURN = 25,930 CFM
NEW OUTSIDE AIR = 9,755 (O.A. TO REMAIN THE SAME)
NEW EXHAUST SERVING AHU-2 = 8,655 CFM

EF-N-7 DESIGN CRITERIA

EXISTING EXHAUST AIR = 4,555 CFM (CURRENTLY CONNECTED)
5,140 CFM (PREVIOUS DESIGN)
NEW EXHAUST AIR = 5,400 CFM

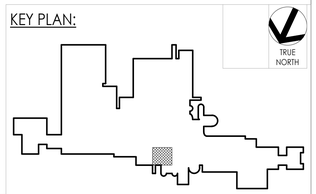
WALL RATING LEGEND

- NON RATED SMOKE RESISTANT WALL PARTITION (GREEN)
- SUITE BOUNDRY (ORANGE)
- 1 HOUR RATED FIRE BARRIER (BLUE)
- 2 HOUR RATED FIRE BARRIER (PINK)
- 1 HOUR RATED SMOKE BARRIER (YELLOW)



1 / H200 **PARTIAL GROUND FLOOR HVAC NEW WORK PLAN**
1/8" = 1'-0"

KEY PLAN:



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Project Name: **CATH LAB RENOVATION**
Project Address: 2700 WAYNE MEMORIAL DRIVE GOLDSBORO, NORTH CAROLINA

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	11/14/2025	CCD-#01

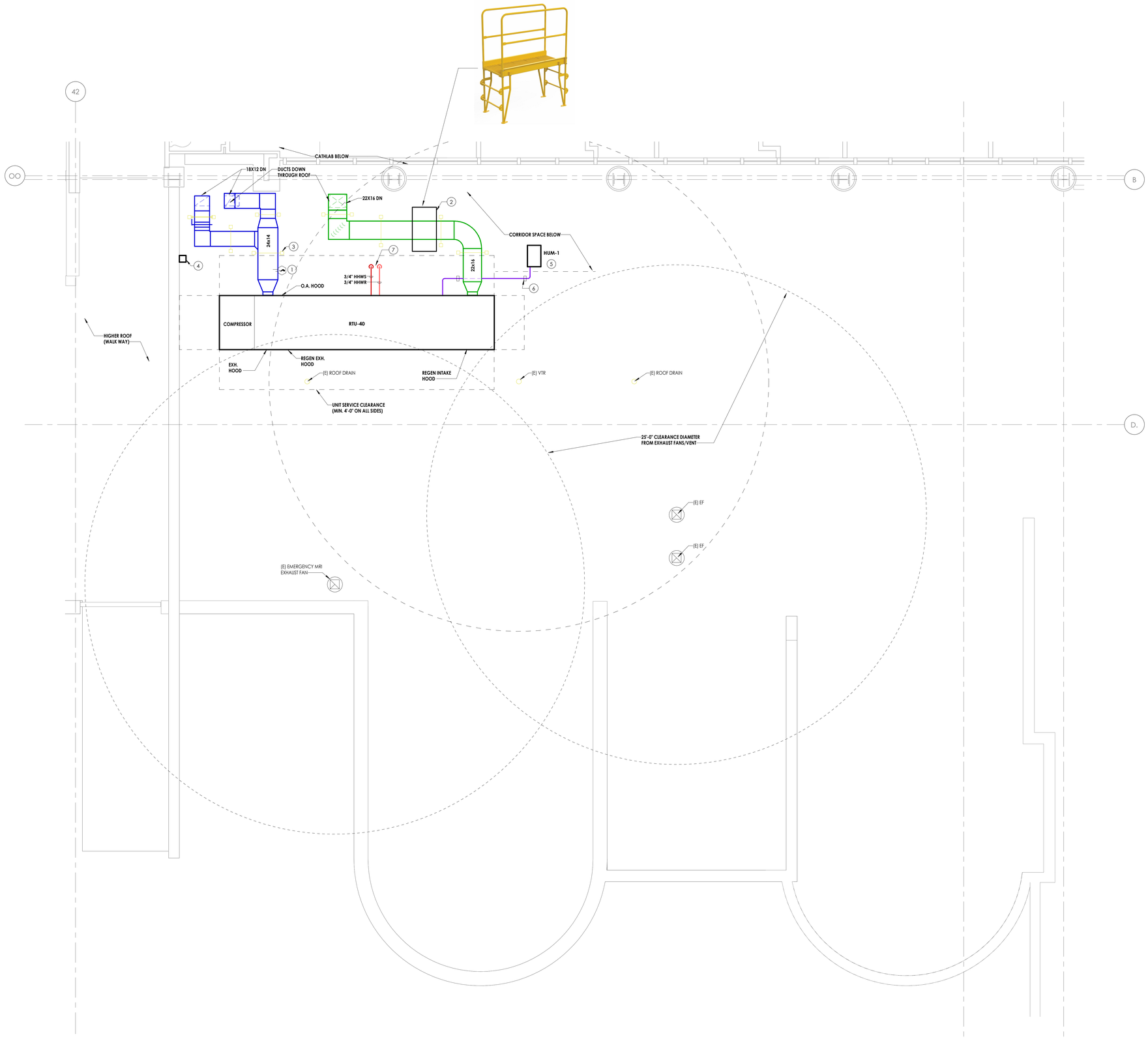
PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 27581 GREGORY A. MILLER 11-14-25

SHEET INFORMATION

Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: LBS
Checked By: GAK
Drawing Title: PARTIAL GROUND FLOOR HVAC NEW WORK PLAN
Drawing Number: H200

11/13/2025 1:37:10 PM PROJECT FILES ON ACC



1 / H201 **PARTIAL GROUND FLOOR HVAC ROOF PLAN**
1/4" = 1'-0"

KEY NOTES

1. DUCT DETECTOR PROVIDED AND WIRED BY DIV. 26 INSTALLED BY DIV. 23.
2. PROVIDE SPACE SAVER VERTICAL LADDER CROSSOVER BRIDGE MADE OF ALUMINUM OR STEEL WITH CORROSION RESISTANCE POWDER COATING. CROSSOVER BRIDGE MUST MEET ALL OSHA PRODUCT AND INSTALLATION REQUIREMENTS. VERIFY SIZE REQUIRED IN FIELD WHEN DUCTWORK IS BEING INSTALLED. MOUNT TO CURB RAIL/NAILER. MANUFACTURER TO BE VESTIL OR APPROVED EQUAL.
3. PROVIDE DUCTWORK ROOF SUPPORTS (TYP.).
4. PROVIDE CHROMALOX HEAT TRACE ON HHWS/R AND WATER LINE (SEE P301) TO STEAM GENERATOR. PROVIDE TWO CIRCUIT INTELLITRACE HEAT TRACE CONTROLLER AND TIE INTO HOSPITAL'S BMS. HEAT TRACE SHALL BE DESIGNED FOR 5 WATTS/FT. MOUNT CONTROL PANEL ON EXISTING BRICK WALL.
5. STEAM GENERATOR MOUNTED ON ROOF RAILS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. ROUTE STEAM LINE TO HUMIDIFIER DISPERSION TUBE IN UNIT. ROUTE COPPER DRAIN FROM STEAM GENERATOR TO NEAREST ROOF DRAIN. ROUTE STEAM CONDENSATE FROM DISPERSION TUBE TO DRAIN. REFER TO PLUMBING DRAWINGS.
6. PROVIDE ROOF PIPING SUPPORTS (TYP.).
7. PIPING THROUGH PIPE PORTAL. SEE DETAIL 11/H800.

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NC ENGINEERING FIRM LICENSE NO. C-2194

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

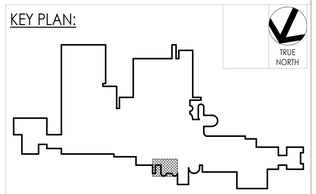
PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL SEAL 27581 ENGINEER GREGORY A. KNIGHT
11-14-25
18089

KEY PLAN:



SHEET INFORMATION

Issued	Scale
11/14/2025	As indicated

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By	Checked By
LBS	GAK

Drawing Title
PARTIAL GROUND FLOOR HVAC ROOF PLAN

Drawing Number
-
H201

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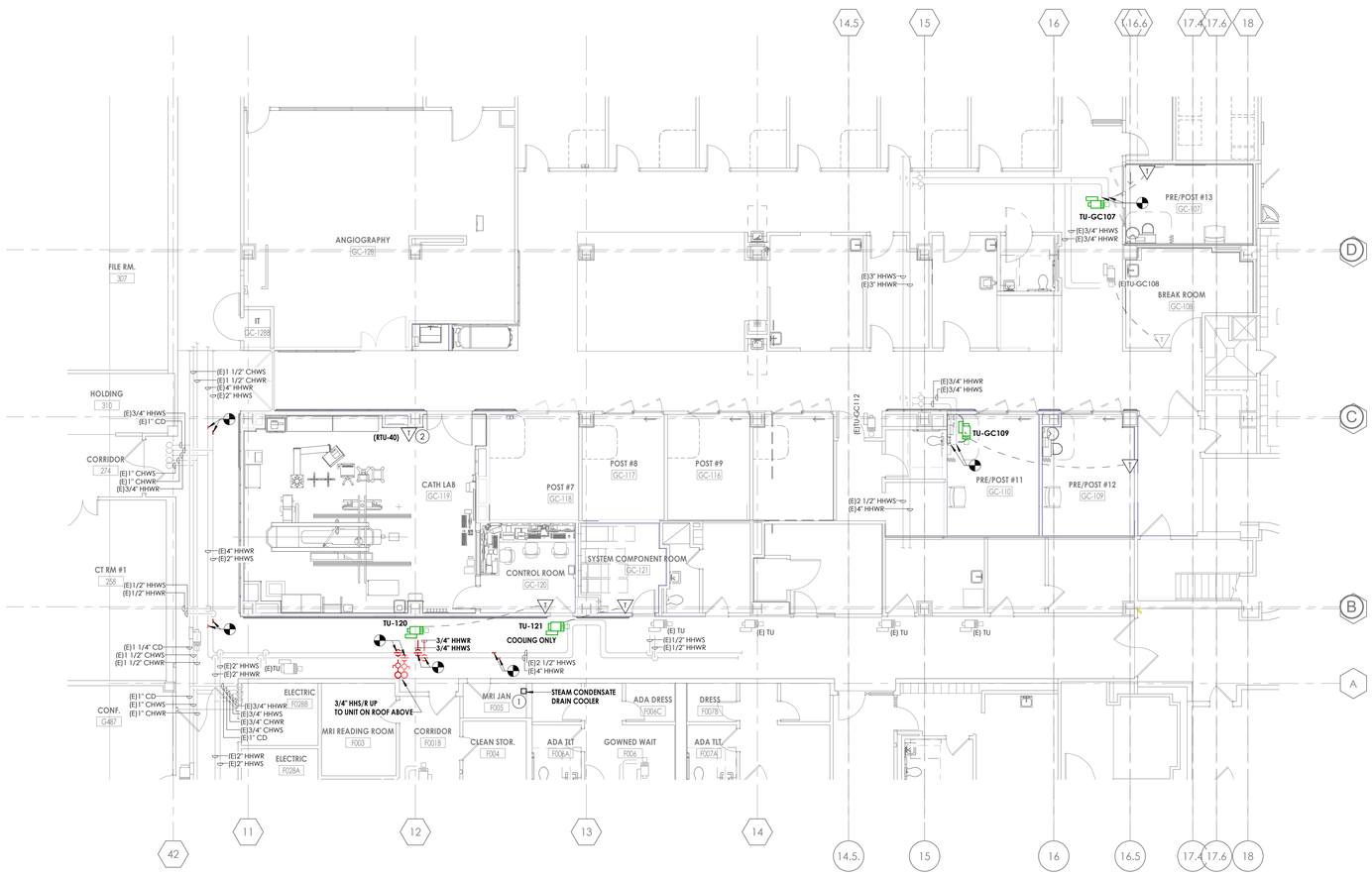
KEY NOTES

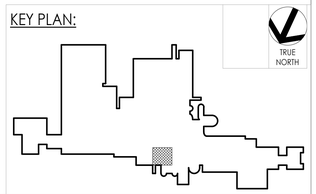
1. INSTALL DRAIN COOLER ON WALL. COORDINATE LOCATION IN FIELD. DRAIN AND WATER CONNECTIONS BY DIV. 22
2. HUMIDITY SENSOR SHALL BE LOCATED IN THE RETURN DUCT. PROVIDE HUMIDITY DISPLAY NEXT TO TEMPERATURE SENSOR.



1 H300 **PARTIAL GROUND FLOOR HVAC PIPING NEW WORK PLAN**

1/8" = 1'-0"

KEY PLAN:



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PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

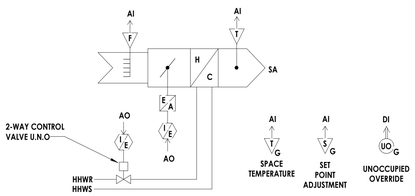
PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL SEAL 27581 ENGINEER GREGORY A. KEYES 11-14-25 18694

SHEET INFORMATION

Issued: 11/14/2025
Scale: 1/8" = 1'-0"
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: LBS
Checked By: GAK
Drawing Title: PARTIAL GROUND FLOOR HVAC PIPING NEW WORK PLAN
Drawing Number: H300

11/13/2025 1:37:13 PM PROJECT FILES ON ACC

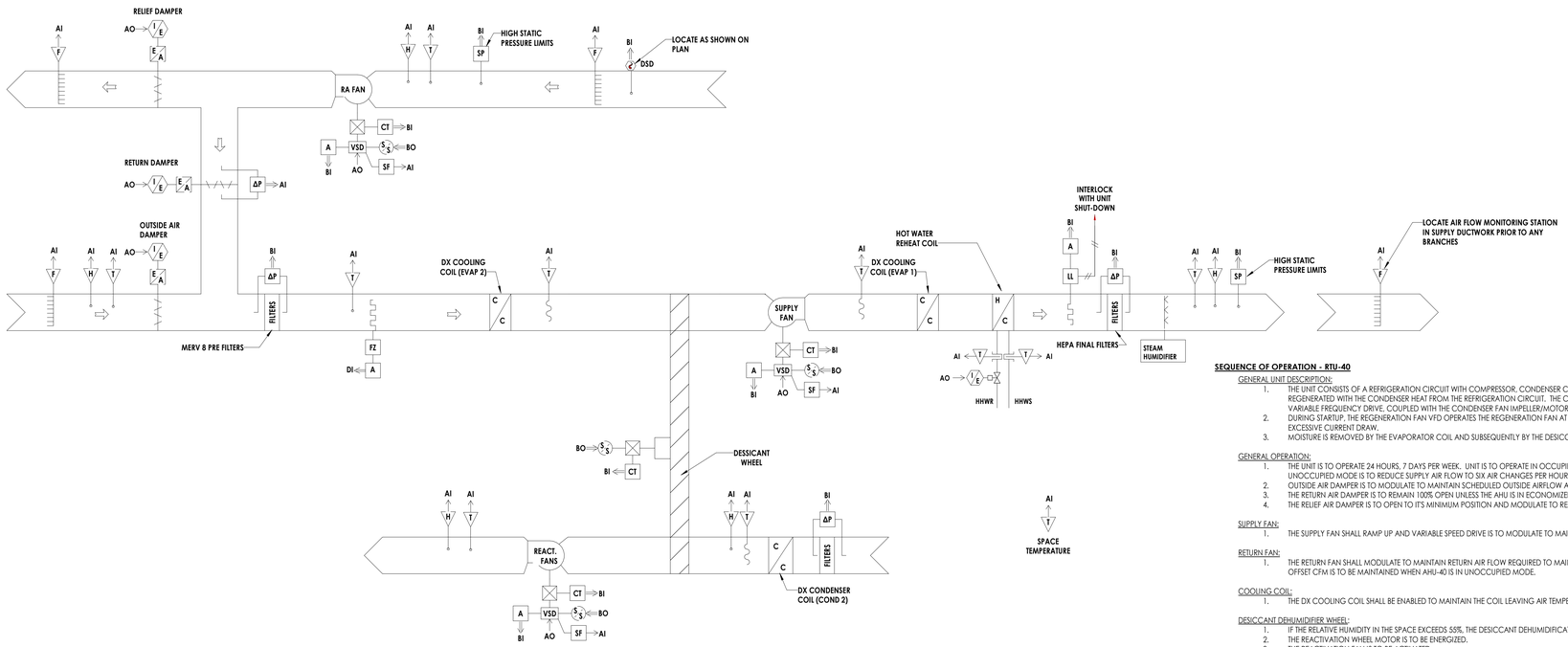


SEQUENCE OF OPERATION - AIR TERMINAL UNITS

1. OCCUPIED MODE [VARIABLE AIR VOLUME TERMINAL UNIT]:
   UPON A RISE IN SPACE TEMPERATURE ABOVE THE COOLING SETPOINT, THE PRIMARY AIR DAMPER WILL MODULATE OPEN AT OR BETWEEN THE MINIMUM AND MAXIMUM AIRFLOW SETTINGS TO SATISFY THE DESIRED SPACE TEMPERATURE SETPOINT. UPON A DROP IN SPACE TEMPERATURE, THE REVERSE WILL OCCUR, IF THE DAMPER MODULATES TO THE MINIMUM AIRFLOW POSITION AND THE SPACE TEMPERATURE CONTINUES TO FALL BELOW THE HEATING SETPOINT, THE HOT WATER COIL CONTROL VALVE WILL MODULATE OPEN AS REQUIRED TO SATISFY SETPOINT. UPON A RISE IN SPACE TEMPERATURE, THE REVERSE WILL OCCUR.
2. OCCUPIED MODE [CONSTANT AIR VOLUME TERMINAL UNIT]:
   THE PRIMARY AIR DAMPER SHALL MAINTAIN A CONSTANT AIR VOLUME TO THE SPACE.
   THE HOT WATER COIL CONTROL VALVE WILL MODULATE AS REQUIRED TO SATISFY SETPOINT.
3. COOLING ONLY UNITS: UPON THE RISE IN SPACE TEMPERATURE ABOVE THE COOLING SETPOINT, THE PRIMARY AIR DAMPER WILL MODULATE OPEN AT OR BETWEEN THE MINIMUM AND MAXIMUM AIRFLOW SETTING TO SATIFY THE DESIRED SPACE TEMPERATURE SETPOINT. UPON A DROP IN SPACE TEMPERATURE, THE REVERSE WILL OCCUR.

1 H500 **AIR TERMINAL UNIT CONTROL SCHEMATIC**

N.T.S.



2 H500 **RTU-40 CONTROL SCHEMATIC**

N.T.S.

SEQUENCE OF OPERATION - RTU-40

GENERAL UNIT DESCRIPTION:

1. THE UNIT CONSISTS OF A REFRIGERATION CIRCUIT WITH COMPRESSOR, CONDENSER COILS, TXV VALVES AND EVAPORATOR COILS WITH A DESICCANT WHEEL THAT IS REGENERATED WITH THE CONDENSER HEAT FROM THE REFRIGERATION CIRCUIT. THE COMPRESSOR AMPS ARE CONTROLLED BY THE FEEDBACK LOOP AT THE REGENERATION VARIABLE FREQUENCY DRIVE, COUPLED WITH THE CONDENSER FAN IMPELLER/MOTOR, AS TO MAINTAIN HEAD PRESSURE CONTROL DURING DEHUMIDIFICATION OPERATION.
2. DURING STARTUP, THE REGENERATION FAN VFD OPERATES THE REGENERATION FAN AT 100% MAXIMUM FLOW FOR 3 MINUTES TO PROTECT THE COMPRESSOR FROM EXCESSIVE CURRENT DRAW.
3. MOISTURE IS REMOVED BY THE EVAPORATOR COIL AND SUBSEQUENTLY BY THE DESICCANT WHEEL WHEN ITS UNIT IS IN OPERATION.

GENERAL OPERATION:

1. THE UNIT IS TO OPERATE 24 HOURS, 7 DAYS PER WEEK. UNIT IS TO OPERATE IN OCCUPIED AND UNOCCUPIED MODES BASED UPON ROOM OCCUPANCY SENSOR. UNOCCUPIED MODE IS TO REDUCE SUPPLY AIR FLOW TO SIX AIR CHANGES PER HOUR.
2. OUTSIDE AIR DAMPER IS TO MODULATE TO MAINTAIN SCHEDULED OUTSIDE AIRFLOW AND DAMPER END SWITCH SHALL CONFIRM THAT THE DAMPER IS OPEN.
3. THE RETURN AIR DAMPER IS TO REMAIN 100% OPEN UNLESS THE AHU IS IN ECONOMIZER MODE.
4. THE RELIEF AIR DAMPER IS TO OPEN TO ITS MINIMUM POSITION AND MODULATE TO REMOVE EXCESS RETURN AIR.

SUPPLY FAN:

1. THE SUPPLY FAN SHALL RAMP UP AND VARIABLE SPEED DRIVE IS TO MODULATE TO MAINTAIN SCHEDULED SUPPLY AIR FLOW AT SUPPLY AIR FLOW MONITORING STATION.

RETURN FAN:

1. THE RETURN FAN SHALL MODULATE TO MAINTAIN RETURN AIR FLOW REQUIRED TO MAINTAIN 0.05" - 0.1" POSITIVE PRESSURE IN CATH LAB BASED UPON TAB RESULTS. OFFSET CFM IS TO BE MAINTAINED WHEN AHU-40 IS IN UNOCCUPIED MODE.

COOLING COIL:

1. THE DX COOLING COIL SHALL BE ENABLED TO MAINTAIN THE COIL LEAVING AIR TEMPERATURE SETPOINT OF 49.0 DEGREES F.(ADJ.).

DESICCANT DEHUMIDIFIER WHEEL:

1. IF THE RELATIVE HUMIDITY IN THE SPACE EXCEEDS 55%, THE DESICCANT DEHUMIDIFICATION WHEEL IS TO BE ACTIVATED.
2. THE REACTIVATION WHEEL MOTOR IS TO TO BE ENERGIZED.
3. THE REACTIVATION FAN IS TO BE ACTIVATED.
4. WHEN SPACE DEWPOINT TEMPERATURE IS 5 DEGREES F. BELOW THE DEWPOINTS ASSOCIATED WITH THE TEMPERATURE AND RELATIVE HUMIDITY SETPOINT, THE DESICCANT DEHUMIDIFIER WHEEL IS TO BE DEACTIVATED.

POST COOLING COIL:

1. IN THE EVENT THE DESICCANT DEHUMIDIFIER WHEEL IS ACTIVATED, THE POST COOLING COIL SHALL BE ENABLED TO MAINTAIN THE COIL LAT SETPOINT OF 49.0 DEGREES F. (ADJ.).
2. IF THE POST COOLING COIL IS ACTIVATED AND THE REHEAT VALVE ON THE UNIT IS OPEN THE LAT TEMPERATURE SETPOINT IS TO RESET UP IN 1 DEG F. INCREMENTS UNTIL THE REHEAT VALVE IS SHUT. INTERVAL OF RESETS IS TO BE 15 MINUTES.
3. UPON A RISE IN SPACE TEMPERATURE ABOVE SETPOINT IN SPACE WHEN UNIT'S REHEAT VALVE IS FULLY CLOSED, THE POST COOLING COIL LAT SETPOINT IS TO RESET DOWN IN 1 DEG. F. INCREMENTS.

POST HEATING COIL:

1. THE POST HEATING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

STEAM HUMIDIFIER:

1. UPON A DROP IN SUPPLY AIR DEWPOINT BELOW 40 DEGREES F. (ADJ.), THE STEAM HUMIDIFIER IS TO MODULATE TO MAINTAIN THE SETPOINT.
2. UPON A RISE IN DEWPOINT TEMPERATURE ABOVE SETPOINT, THE REVERSE IS TO OCCUR.

AIR FILTER DIFFERENTIAL PRESSURE SENSORS:

1. THE DIFFERENTIAL PRESSURE ACROSS THE PRE-FILTER AND FINAL FILTER BANKS SHALL BE MONITORED BY THE UNIT CONTROLLER. WHENEVER THE DIFFERENTIAL PRESSURE ACROSS THE PRE-FILTER EXCEEDS THE CLEAN PRESSURE DIFFERENTIAL BY 0.5" W.C. (ADJ.) OR MORE, AN ALARM SHALL BE ACTIVATED AT THE UNIT CONTROLLER AND BMS WORKSTATION. WHENEVER THE DIFFERENTIAL PRESSURE OF THE FINAL FILTER EXCEEDS THE CLEAN PRESSURE DIFFERENTIAL BY 1.0" W.C. (ADJ.), AN ALARM SHALL BE ACTIVATED AT THE UNIT CONTROLLER AND THE BMS WORKSTATION.

ECONOMIZER OPERATION:

1. RTU-40 UTILIZES A COMPARATIVE ENTHALPY ECONOMIZER.
2. UPON A DROP IN THE OUTSIDE AIR ENTHALPY BELOW THE RETURN AIR ENTHALPY THE OUTSIDE AIR DAMPER SHALL OPEN TO 100%. THE RETURN AIR DAMPER SHALL FULLY CLOSE. THE RELIEF AIR DAMPER SHALL FULLY OPEN.
3. THE COOLING FUNCTION SHALL RUN IN ITS NORMAL MODE TO MAINTAIN SUPPLY SETPOINTS EVEN IF IN ECONOMIZER.
4. UPON A DROP IN OUTSIDE AIR TEMPERATURE BELOW 50°F, THE OUTSIDE AIR AND RETURN DAMPERS ARE TO MODULATE TO MAINTAIN A MIXED AIR TEMPERATURE OF 50°F
5. THE HUMIDIFIER IS TO OPERATE AS CALLED FOR IN THE "HUMIDIFIER OPERATION" SECTION.

RELIEF AIR DAMPER:

1. IN NORMAL OPERATION, THE RELIEF DAMPER IS TO OPEN TO A POINT TO ALLOW THE EXCESS RETURN AIR TO BE RELIEVED BASED ON TAB WORK.

MANUAL SHUT-DOWN:

1. A REMOTE EMERGENCY MANUAL SHUT-DOWN SWITCH IS TO BE LOCATED IN THE CONTROL ROOM ADJACENT TO THE CATH LAB SERVED BY THIS UNIT. THE SHUT-DOWN SWITCH IS TO STOP ALL OPERATION OF RTU-40.

DUCT SMOKE DETECTOR:

1. UPON ACTIVATION OF RETURN AIR DUCT SMOKE DETECTOR, THE UNIT SHALL SHUT DOWN.

ALARMS:

1. IN ADDITION TO CONDITIONS ALREADY DESCRIBED HEREIN, AN ALARM SHALL BE ACTIVATED AT THE UNIT CONTROLLER AND AT THE BMS IF THE FOLLOWING OCCUR:
   - A. FAN MOTOR FAILURE.
   - B. VSD FAILURE.
   - C. SPACE TEMPERATURE LOW/HIGH LIMITS.
   - D. SPACE HUMIDITY LOW/HIGH LIMITS.
   - E. SUPPLY AIR STATIC PRESSURE LOW/HIGH LIMITS.
   - F. RETURN AIR STATIC PRESSURE LOW/HIGH LIMITS.
   - G. OUTSIDE AIR DAMPER NOT OPEN.

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SHEET INFORMATION

Issued	Scale
11/14/2025	N.T.S.

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By	Checked By
LBS	GAK

Drawing Title
HVAC CONTROLS

Drawing Number
-
H500

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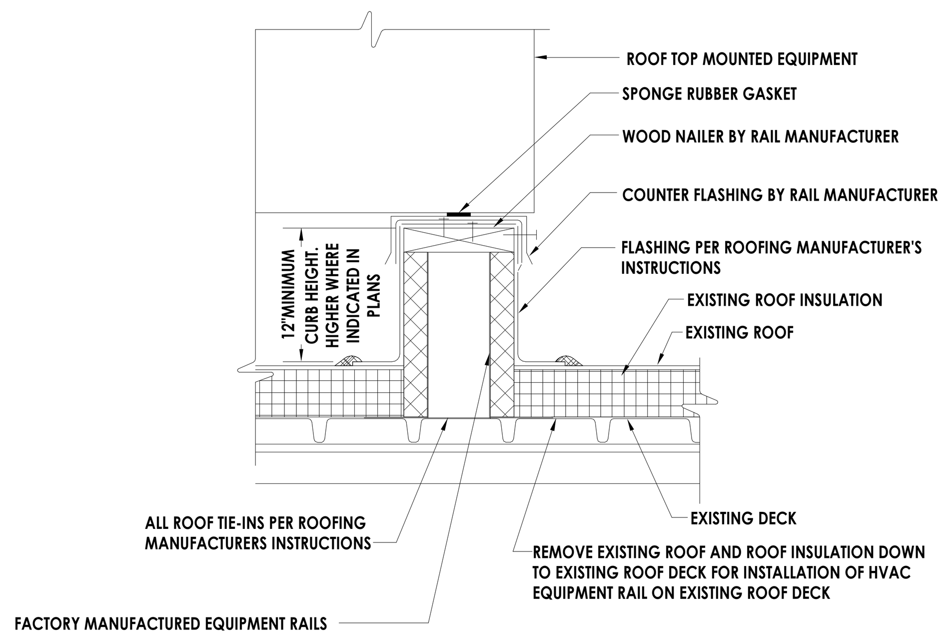
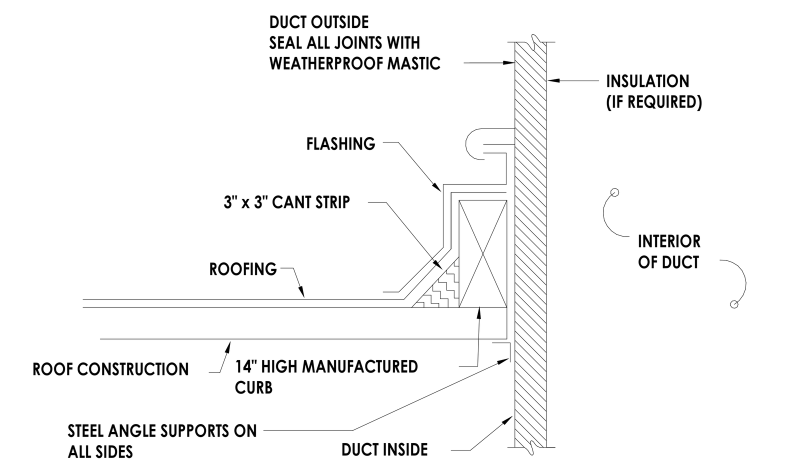


EXISTING ROOF NOTES:
1. MODIFY ROOFING PER NRCA RECOMMENDATIONS. COORDINATE WITH OWNER AND EXISTING ROOFING MANUFACTURER TO MAINTAIN WARRANTY.
2. REMOVE EXISTING ROOFING AND ROOF INSULATION DOWN TO EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF EQUIPMENT RAILS.
3. CRICKET AWAY FROM RAILS FOR DRAINAGE.
4. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND THE WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.

NEW ROOF NOTES:
1. INSTALL ROOFING PER NRCA RECOMMENDATIONS.
2. CRICKET AWAY FROM RAILS FOR DRAINAGE.
3. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND THE WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
4. ALL SUPPORTIVE STEEL TO BE COATED WITH ONE COAT OF PRIMER AND TWO COATS OF RUST INHIBITING PAINT.

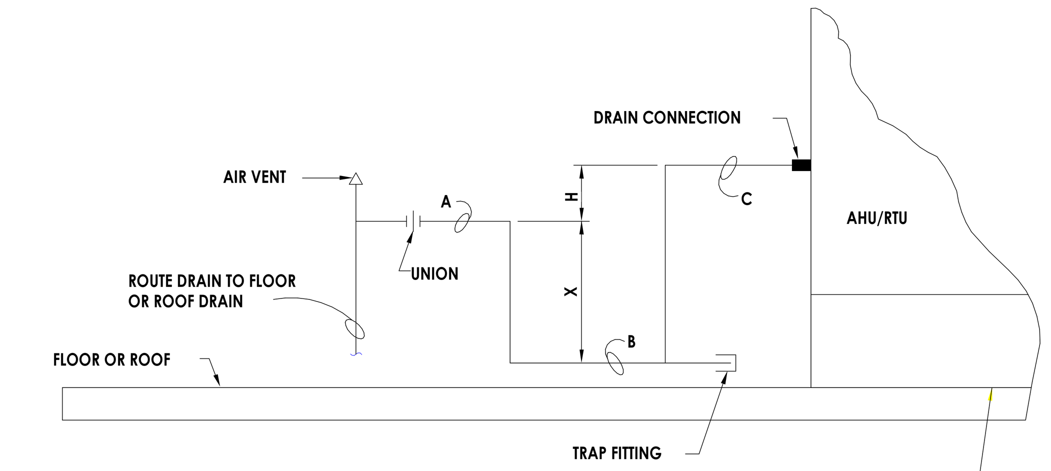
1 H800 EQUIPMENT ROOF RAIL
NOT TO SCALE



EXISTING ROOF NOTES:
1. ALL DUCTWORK ROOF PENETRATIONS SHALL HAVE CURB AS SHOWN.
2. MODIFY THE EXISTING ROOFING AS NECESSARY PER NRCA RECOMMENDATIONS. COORDINATE WITH OWNER AND EXISTING ROOFING MANUFACTURER TO MAINTAIN WARRANTY.
3. REMOVE EXISTING ROOFING AND ROOF INSULATION DOWN TO EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF HVAC CURB. CUT OPENING IN EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF HVAC EQUIPMENT CURB AND DUCT.
4. CRICKET ROOFING AWAY FROM CURB.
5. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
6. PROVIDE STRUCTURAL FRAMING FOR OPENING EDGE.

NEW ROOF NOTES:
1. ALL ROOFTOP DUCT PENETRATIONS SHALL HAVE CURB AS SHOWN.
2. INSTALL ROOFING PER NRCA RECOMMENDATIONS.
3. CRICKET AWAY FROM CURB FOR DRAINAGE.
4. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND THE WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
5. PROVIDE STRUCTURAL FRAMING FOR OPENING EDGE.

2 H800 DUCT THRU ROOF
NOT TO SCALE



TOTAL TRAP HEIGHT = X+H+(1 1/2xPIPE DIAMETER)
= B.O.P. AT B TO T.O.P. AT C.
X = B.O.P. AT A TO T.O.P. AT B
H = B.O.P. AT A TO T.O.P. AT C

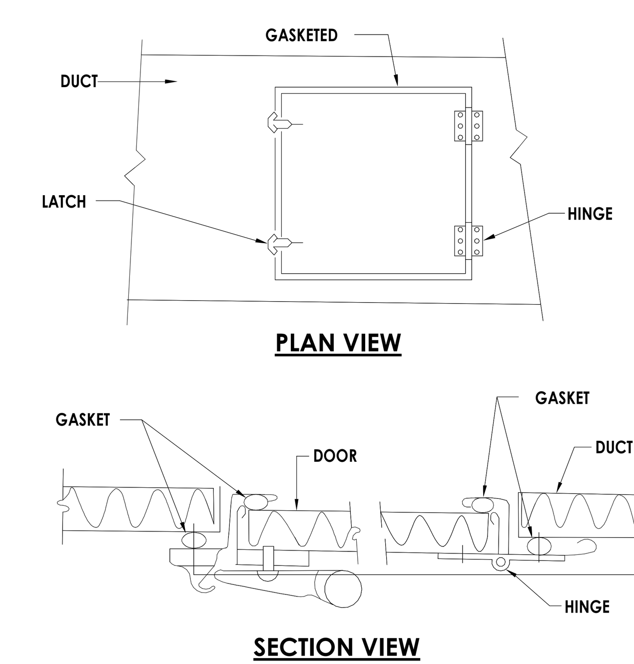
POSITIVE STATIC PRESSURES:
X = AT LEAST 1" PLUS CASING STATIC PRESSURE
H = AT LEAST 1"

NEGATIVE STATIC PRESSURES:
X = 1/2H
H = AT LEAST 1" PLUS CASING STATIC PRESSURE

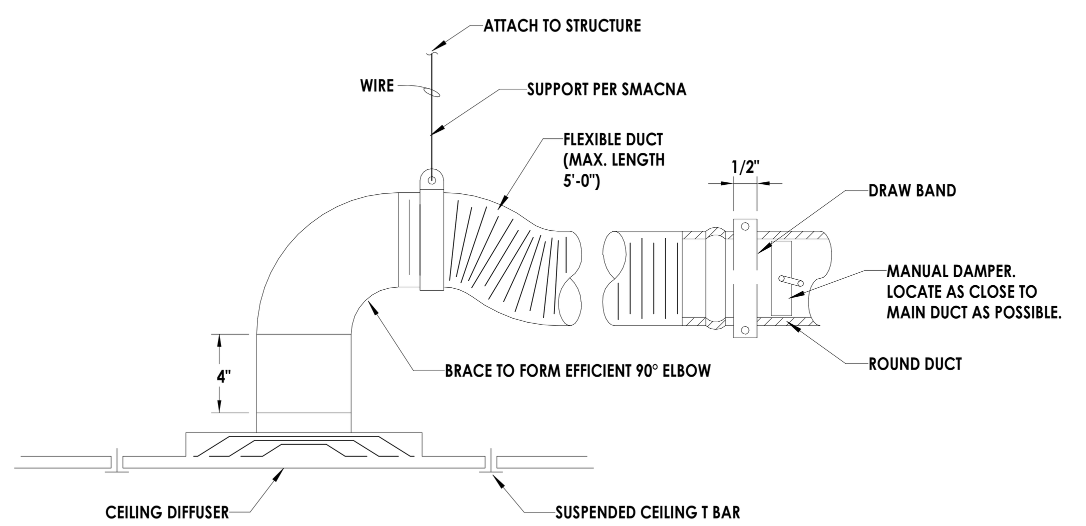
B.O.P. = BOTTOM OF PIPE
T.O.P. = TOP OF PIPE

NOTE:
DRAIN PIPING SHALL BE MINIMUM UNIT CONNECTION SIZE. UNITS 25 TONS AND LARGER SHALL HAVE DRAIN SIZE ONE PIPE SIZE LARGER THAN DRAIN CONNECTION.

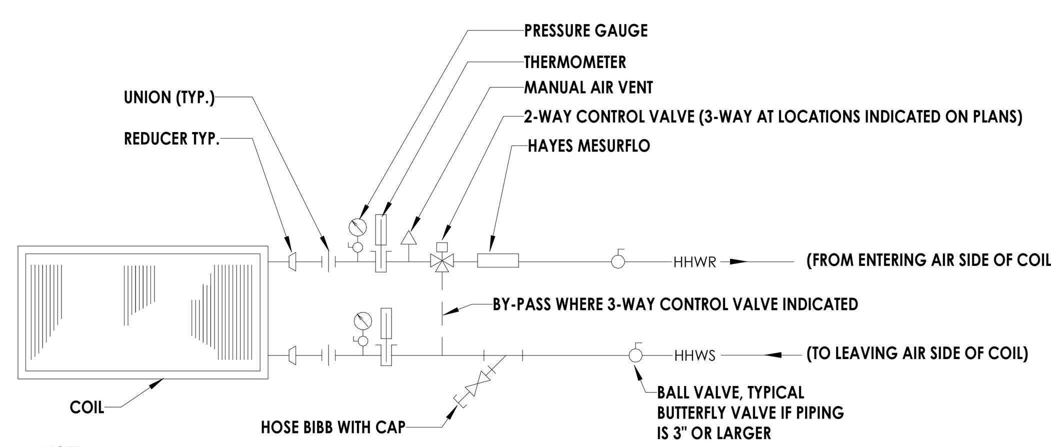
3 H800 COOLING CONDENSATE DRAIN
NOT TO SCALE



4 H800 ACCESS DOORS
NOT TO SCALE

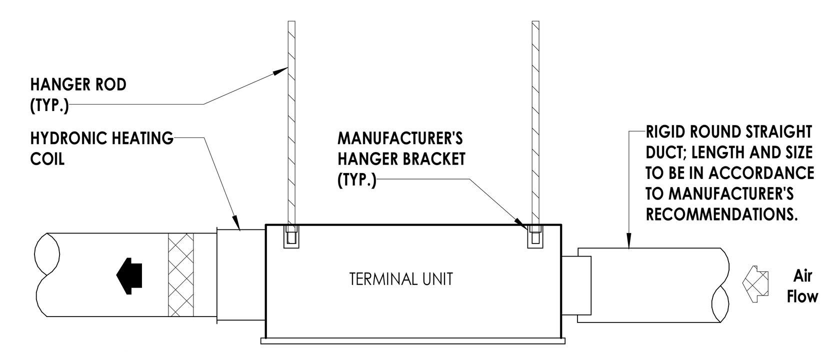


5 H800 DIFFUSER DETAIL
N.T.S.



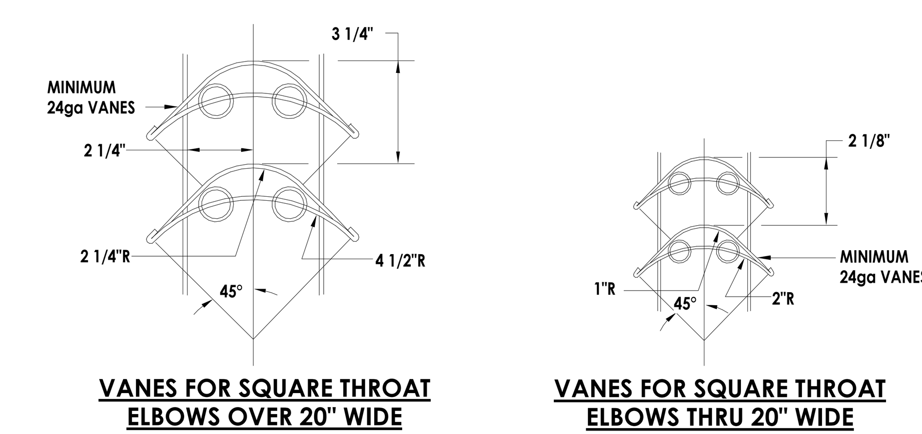
NOTE:
1. FOR TU REHEAT COILS COMBINATION AUTOMATIC FLOW CONTROL AND SHUT-OFF VALVES AND COMBINATION STRAINER AND SHUT-OFF VALVES ARE ACCEPTABLE.
2. FOR TU REHEAT COILS USE OF P&T TAPS ON SUPPLY AND RETURN INSTEAD OF GAUGES IS ACCEPTABLE.

6 H800 HOT WATER HEATING COIL DETAIL
N.T.S.

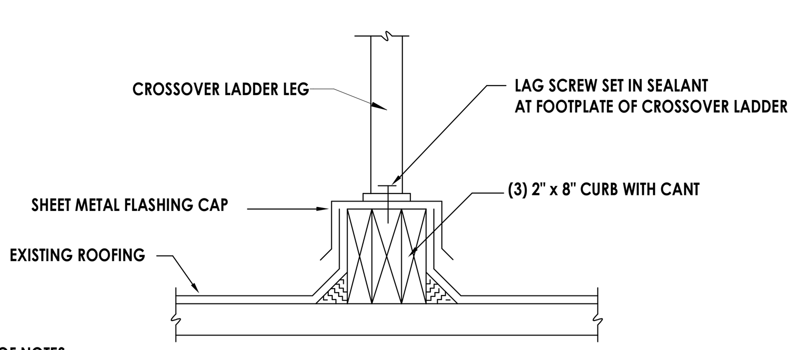


NOTE:
1. MAINTAIN MANUFACTURER'S REQUIRED ACCESS CLEARANCE FOR ALL CONTROL PANELS.

7 H800 TERMINAL UNIT INSTALLATION DETAIL
N.T.S.

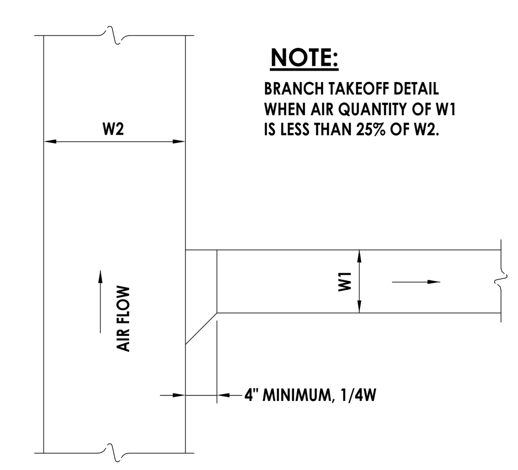


8 H800 TURNING VANE
NOT TO SCALE



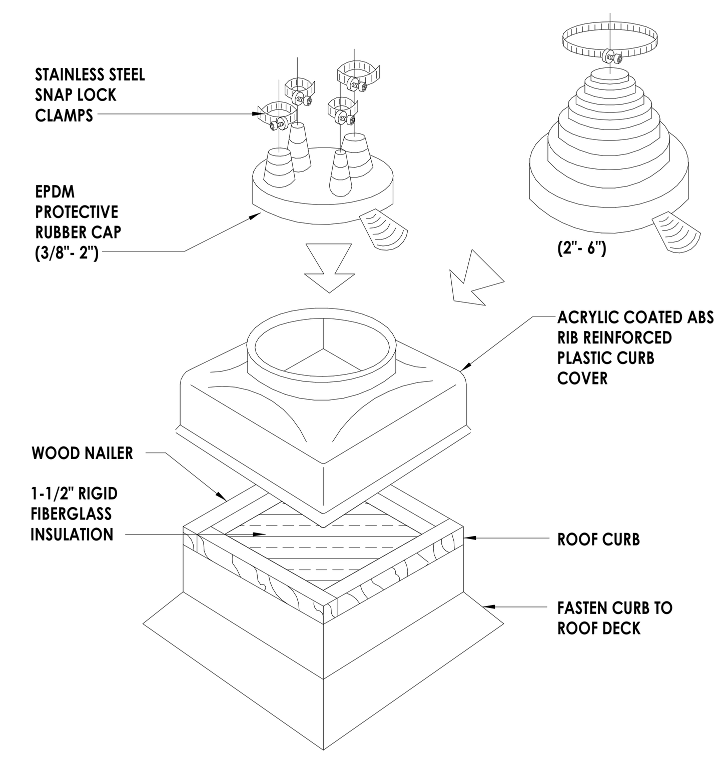
EXISTING ROOF NOTES:
1. MODIFY EXISTING ROOFING PER NRCA RECOMMENDATIONS. COORDINATE WITH OWNER AND EXISTING ROOFING MANUFACTURER TO MAINTAIN WARRANTY.
2. REMOVE EXISTING ROOFING AND ROOF INSULATION DOWN TO EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF CURB.
3. CRICKET AWAY FROM RAILS FOR DRAINAGE.
4. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND THE WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
5. ALL SUPPORTIVE STEEL TO BE COATED WITH ONE COAT OF PRIMER AND TWO COATS OF RUST INHIBITING PAINT.

9 H800 ROOF CURB RAIL/NAILER DETAIL
NOT TO SCALE



NOTE:
BRANCH TAKEOFF DETAIL WHEN AIR QUANTITY OF W1 IS LESS THAN 25% OF W2.

10 H800 BRANCH DUCT TAKEOFF
NOT TO SCALE



EXISTING ROOF NOTES:
1. ALL HVAC PIPING ROOF PENETRATIONS SHALL HAVE CURB AND PORTAL AS SHOWN.
2. MODIFY THE EXISTING ROOFING AS NECESSARY PER NRCA RECOMMENDATIONS. COORDINATE WITH OWNER AND EXISTING ROOFING MANUFACTURER TO MAINTAIN WARRANTY.
3. REMOVE EXISTING ROOFING AND ROOF INSULATION DOWN TO EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF HVAC CURB. CUT OPENING IN EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF HVAC EQUIPMENT CURB AND DUCT.
4. CRICKET ROOFING AWAY FROM CURB.
5. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
6. PROVIDE STRUCTURAL FRAMING FOR OPENING EDGE.

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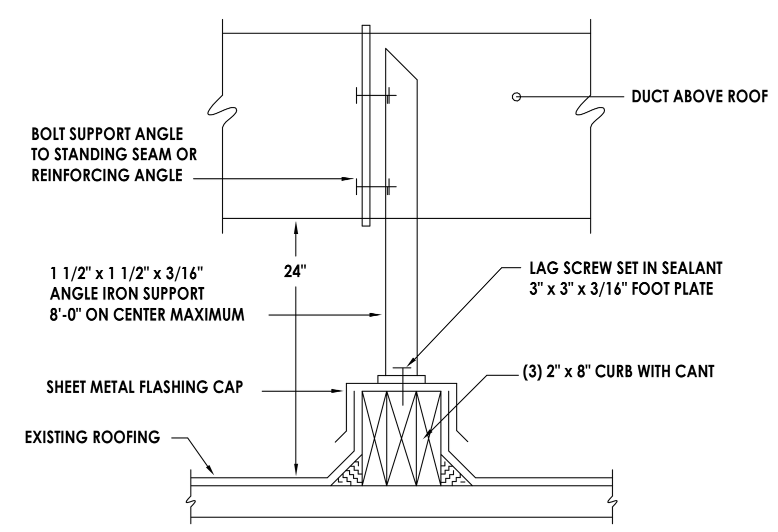
5. PROVIDE STRUCTURAL FRAMING FOR OPENING EDGE.

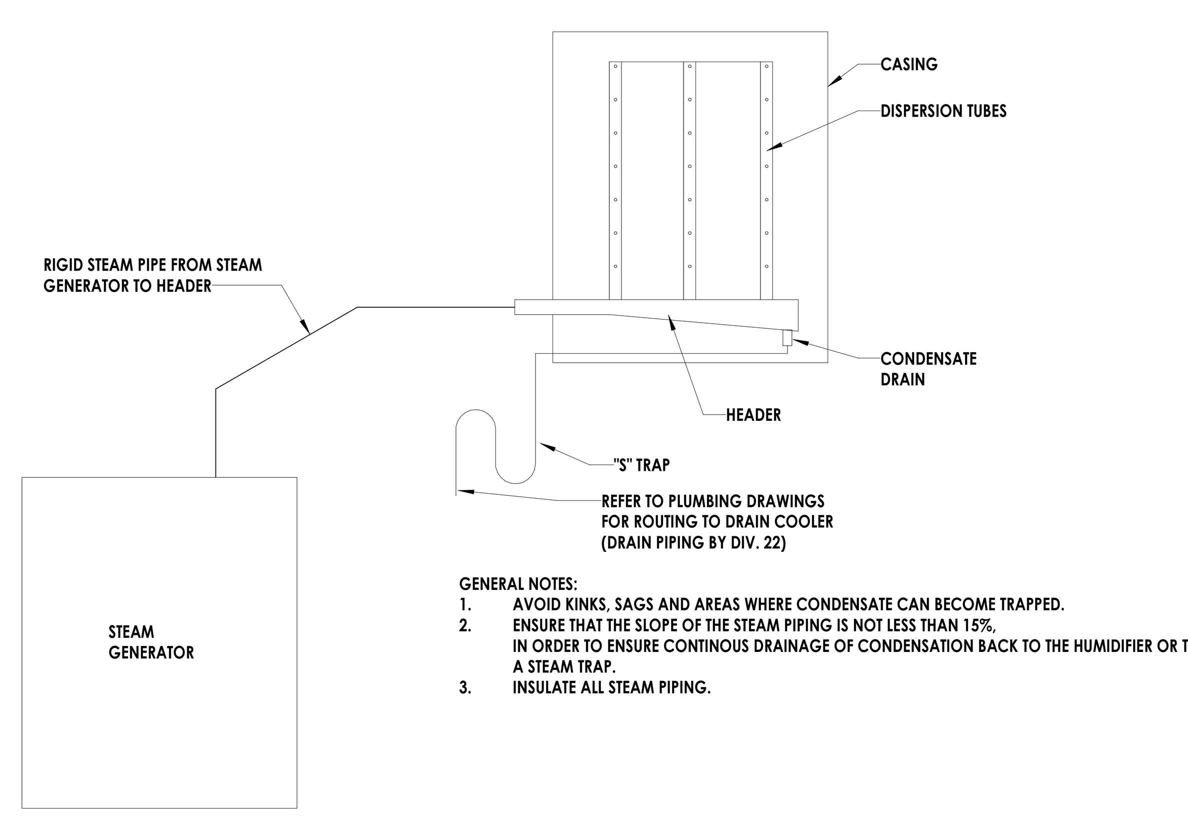
11 H800 PIPE PORTAL
NOT TO SCALE



EXISTING ROOF NOTES:
1. MODIFY EXISTING ROOFING PER NRCA RECOMMENDATIONS. COORDINATE WITH OWNER AND EXISTING ROOFING MANUFACTURER TO MAINTAIN WARRANTY.
2. REMOVE EXISTING ROOFING AND ROOF INSULATION DOWN TO EXISTING ROOF DECK AS NECESSARY FOR INSTALLATION OF DUCT SUPPORT.
3. CRICKET AWAY FROM RAILS FOR DRAINAGE.
4. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND THE WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
5. ALL SUPPORTIVE STEEL TO BE COATED WITH ONE COAT OF PRIMER AND TWO COATS OF RUST INHIBITING PAINT.
6. ALL DIMENSIONS AND STEEL SIZES ARE MINIMUMS UNLESS OTHERWISE NOTED.

NEW ROOF NOTES:
1. INSTALL ROOFING PER NRCA RECOMMENDATIONS.
2. CRICKET AWAY FROM RAILS FOR DRAINAGE.
3. INSTALLATION OF ALL ROOF MOUNTED MECHANICAL COMPONENTS SHALL CONFORM TO THE STATE BUILDING CODE AND THE WIND RESTRAINT REQUIREMENTS OF THIS PROJECT.
4. ALL SUPPORTIVE STEEL TO BE COATED WITH ONE COAT OF PRIMER AND TWO COATS OF RUST INHIBITING PAINT.
5. ALL DIMENSIONS AND STEEL SIZES ARE MINIMUMS UNLESS OTHERWISE NOTED.

12 H800 DUCT SUPPORT CURB
NOT TO SCALE



GENERAL NOTES:
1. AVOID KINKS, SAGS AND AREAS WHERE CONDENSATE CAN BECOME TRAPPED.
2. ENSURE THAT THE SLOPE OF THE STEAM PIPING IS NOT LESS THAN 15%, IN ORDER TO ENSURE CONTINOUS DRAINAGE OF CONDENSATION BACK TO THE HUMIDIFIER OR TO A STEAM TRAP.
3. INSULATE ALL STEAM PIPING.

13 H800 STEAM HUMIDIFIER CONNECTION
N.T.S.

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NC ENGINEERING FIRM LICENSE NO. C-2194

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

PROJECT ISSUE & REVISION SCHEDULE
#	Date	Description

PROFESSIONAL STAMPS
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 27581 GREGORY A. KYZER 11-14-25 18089

SHEET INFORMATION
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Drawing Number: H800

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PACKAGED ROOF TOP UNIT SCHEDULE (DX COOLING W/ DESSICANT WHEEL)

TAG	MANUFACTURER	MODEL	SUPPLY FAN						RETURN FAN			ENTERING AIR CONDITIONS (EVAP TWO)			DESSICANT WHEEL ENTERTING CONDITIONS			ENTERING/LEAVING AIR CONDITIONS (EVAP ONE)			UNIT PRE FILTER	UNIT FINAL FILTER	HOT WATER HEATING COIL				UNIT COOLING EFFECT (BTU/HR)	REFRIGERANT	EER	COMPRESSOR TYPE	COMPRESSOR QUANTITY	ELECTRICAL			UNIT WEIGHT (LBS)	NOTES
			SUPPLY CFM	O.A. CFM	EXTERNAL S.P.	FAN RPM	OPERATING (HP)	MOTOR HP	AIR FLOW	EXTERNAL STATIC (IN)	MOTOR HP	TEMP. (DB)	GRAINS/LB	ENTHALPY (BTU/LB)	TEMP. (DB)	GRAINS/LB	ENTHALPY (BTU/LB)	TEMP. (DB)	GRAINS/LB	ENTHALPY (BTU/LB)			HEATING CAPACITY (MBH)	E.W.T. (°F)	GPM	PRESSURE DROP (FT)						UNIT MCA (AMP)	UNIT MOCP	UNIT VOLTAGE/PHASE		
RTU-40	NOVELAIRE	3000 DESDX	2320	465	1.5	3476	2.8	4.0	2320	0.75	4.0	68.6	56.1	25.2	49.0	51.4	19.7	74.2/50.0	31.5/31.5	22.7/16.9	MERV 8	HEPA	90.0	180	2.5	13.5	87318	R454B		DIGITAL	2	39.9	45.0	460/3	5760	ALL

NOTES:

1. PROVIDE WITH FACTORY FURNISHED DISCONNECT.
2. PROVIDE WITH SINGLE POINT POWER CONNECTION.
3. PROVIDE WITH STAINLESS STEEL DRAIN PAN.
4. PROVIDE WITH CONTROLLER TO INTEGRATE INTO HOSPITAL'S BMS SYSTEM.
5. PROVIDE WITH VFDS ON ALL FANS.
6. PROVIDE WITH MANUFACTURER'S RECOMMENDED VIBRATION ISOLATION CURB.
7. PROVIDE WITH ECONOMIZER.

NOTE: UNIT LEAVING CONDITIONS = 50.0°F DB; GRAINS/LB = 31.5; ENTHALPY = 16.8.

STEAM HUMIDIFIER/GENERATOR (RTU-40)

TAG	MANUFACTURER	MODEL	CAPACITY (LB/HR)	DISPERSION TUBE	ELECTRICAL					WEIGHT (LBS)	NOTES
					V	PH	HZ	MCA	MOCP		
HUM-1	NEPTRONIC	SKE4-N06M-480-3W	18.0	MULTI-STEAM HD	460	3	60	7.2		115	ALL

NOTES:

1. PROVIDE WITH FACTORY FURNISHED DISCONNECT.
2. PROVIDE WITH ENCLOSURE FOR OUTDOOR USE.
3. PROVIDE WITH CONTROLLER TO TIE INTO HOSPITAL'S BMS.
4. PROVIDE WITH ALL HOSES, DISPERSION TUBE, AND ACESSORIES FOR A COMPLETE INSTALLATION.
5. COORDINATE MULTI-STEAM DISPERSION ASSEMBLY WITH RTU HUMIDIFER SECTION FOR INSTALLATION.
6. PROVIDE WITH INTERNAL TEMPERING DRAIN.
7. PROVIDE WITH AUXILARY DRAIN COOLER FOR STEAM CONDENSATE AT HUMIDIFIER DISPERSION TUBE. DRAIN COOLER SHALL BE LOCATED IN JANITOR CLOSET BELOW.

SINGLE DUCT TERMINAL UNIT WITH HOT WATER HEAT SCHEDULE

TAG	MANUFACTURER	MODEL	SIZE			CFM		STATIC PRESSURE		HEATING MODE CFM	HOT WATER HEATING COIL									NOTES
			INLET	OUTLET		MAX	COOLING MODE MIN	INLET	DOWN		EAT	LAT	CAPACITY (MBH)	APd	GPM	EWT	LWT	WPd	ROWS	
				WIDTH	HEIGHT															
TU-120	TRANE	VCWF	6"	12"	8"	245	70	1.0	0.25	110	55	103.8	5.8	0.06	0.64	180	150	0.32	1	1
TU-121	TRANE	VCCF	10"	14"	12 1/2"	1030	190	1.0	0.25	0	0	0	0	0.01	0.00	0	0	0	0	1
TU-GC107	TRANE	VCWF	6"	12"	8"	225	225	1.0	0.25	225	55	92.1	9.0	0.1	0.60	180	150	0.69	1	1
TU-GC109	TRANE	VCWF	8"	12"	10"	485	485	1.0	0.25	485	55	86.9	16.8	0.15	1.12	180	150	2.7	1	1

NOTES:

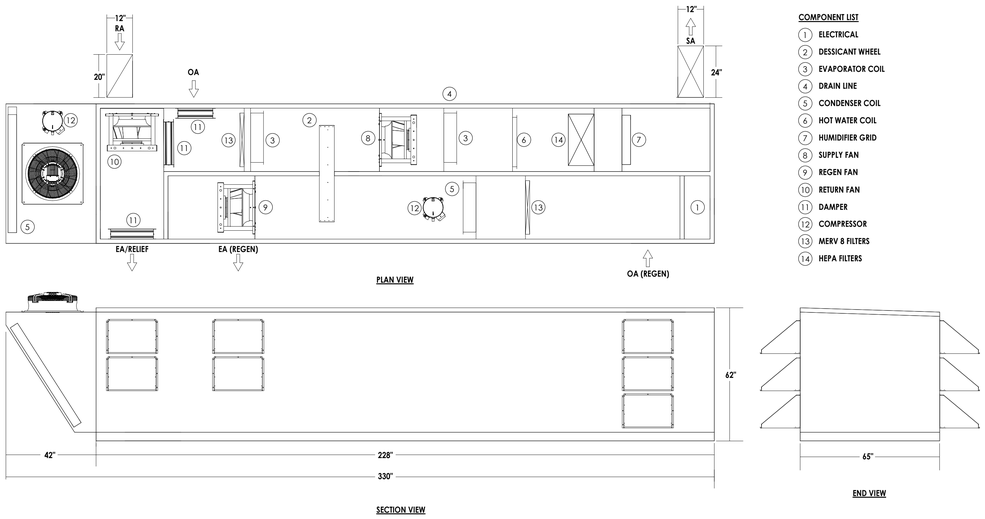
1. 1" THICK DOUBLE WALL CONSTRUCTION.

DIFFUSER/GRILLE SCHEDULE

MARK	APPLICATION	MATERIAL	FINISH	DESIGN EQUIPMENT	NOTES
D-1	SUPPLY DIFFUSER	ALUM.	WHITE	PRICE, MODEL ASCD	1,3,4,5,6
D-2	SUPPLY DIFFUSER - LAMINAR	ALUM.	WHITE	PRICE, MODEL LFD	1,3,4
G-1	RETURN/EXHAUST	ALUM.	WHITE	PRICE, MODEL 630	1,2,3,4,5
G-2	RETURN - SIDEWALL	STAINLESS STEEL	S.S.	PRICE, MODEL 730	4

NOTES:

1. COORDINATE WITH SPACE CEILING TYPE FOR LAY-IN OR SURFACE MOUNTING. PROVIDE OPPOSED BLADE DAMPERS FOR DIFFUSERS/GRILLES INSTALLED IN HARD CEILINGS OR WHERE A MANUAL DAMPER WOULD NOT BE ACCESSIBLE.
2. FOR GRILLES MOUNTED IN LAY-IN CEILING SYSTEM, PROVIDE MANUFACTURER'S 24"x24" STANDARD ADAPTOR MODULE TO FIT IN GRID.
3. PROVIDE HANGERS AND MOUNTING ACCESSORIES SUITABLE FOR CEILING TYPE. COORDINATE DIFFUSERS/GRILLES WITH ARCHITECTURAL CEILING AND LIGHTING PLANS.
4. SEE PLANS FOR NECK SIZE AND AIRFLOW RATE.
5. PROVIDE WITH SQUARE TO ROUND TRANSITION AS NECESSARY.
6. PROVIDE WITH INSULATED BACKPAN.



COMPONENT LIST

1. ELECTRICAL
2. DESSICANT WHEEL
3. EVAPORATOR COIL
4. DRAIN LINE
5. CONDENSER COIL
6. HOT WATER COIL
7. HUMIDIFIER GRID
8. SUPPLY FAN
9. REGEN FAN
10. RETURN FAN
11. DAMPER
12. COMPRESSOR
13. MERV 8 FILTERS
14. HEPA FILTERS

RTU-40 DETAIL

1 / H900

N.T.S.

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NC ENGINEERING FIRM LICENSE NO. C-2194

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 27581 GREGORY A. KIRKPATRICK 11-14-25

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Drawing Number: H900

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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	OPERATION	GPM/GPF	MANUFACTURER	CATALOG NO.	CONNECTION SIZES WASTE	C.W.	H.W.	DESCRIPTION	VALVES, FAUCETS, SEAT, TRAP, AND SUPPLIES	MOUNTING	REMARKS
S1	SCRUB SINK	SENSOR OPERATED	1.5 GPM	JUST	J7701S-J	1 1/2"	1/2"	1/2"	WALL HUNG SEAMLESS 16 GAUGE STAINLESS STEEL SCRUB SINK, POLISHED TO A LUSTER FINISH, AND SOUND DEADENED ON THE BOTTOM. SENSOR OPERATED FAUCET AND ANTI SCALD MIXING VALVE. WITH WALL CARRIER.	SLOAN OPTIMA ETF 700-4-B-CP HARD WIRED SENSOR FAUCET WITH MIXING VALVE, J-35-SSF DRAIN, JT-150, AND WALL CLIPS.	WALL HUNG	ALL
PCU1	PATIENT CARE UNIT	SENSOR OPERATED	1.6 GPF	WHITEHALL	4049-ONFF-R-3-ULF-CSG-ESB-BWD	3"	1"	1/2"	FLOOR MOUNT BOTTOM OUTLET WATER CLOSET, ELONGATED BOWL, MANUAL FLUSH VALVE, ACCESSIBLE WITH (BWD) BED PAN WASHER, ACCESSIBLE HEIGHT	(CSG) CENTERSET GOOSENECK SPOUT WITH WRISTBLADE HANDLES	WALL HUNG	ALL

NOTES:

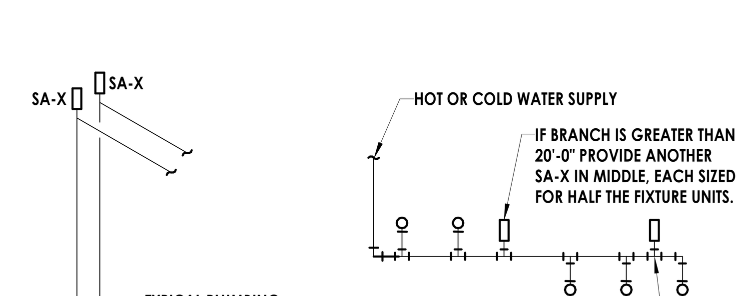
1. ALL ACCESSIBLE EQUIPMENT/FIXTURES TO BE INSTALLED PER ADA REQUIREMENTS.
2. PLUMBING CONTRACTOR SHALL PROVIDE ALL RISERS, CARRIERS, P-TRAPS, STOPS, STRAINERS, TAIL PIECES, DRAINS, ETC. REQUIRED TO HAVE A COMPLETE INSTALLATION.
3. COORDINATE ALL ROUGHIN REQUIREMENTS FOR PLUMBING PIPING WITH GENERAL CONTRACTOR.

PLUMBING DRAINAGE SCHEDULE

SYMBOLS	DESCRIPTION	LOCATION	MANUFACTURER & MODEL NUMBER	NOTES
CO	CLEANOUT	INTERIOR OF BUILDING	MIFAB THREADED BRONZE CLEANOUT PLUG AND 1/4" NPT ACCESS HEX HEAD PLUG.	SEE NOTE 1
SA-X	SHOCK ARESSTOR SEE DETAIL 10/P800	INTERIOR OF BUILDING	MIFAB CL SERIES PISTON OPERATED WATER HAMMER ARRESTOR WITH HARD DRAWN SEAMLESS "K" COPPER BODY, RYTON PPS PISTON WITH DOUBLE O-RINGS (PARCO # 5778-80) AND CDA 360 BRASS MPT CONNECTIONS. CERTIFIED TO THE ASSE 1010-1196 AND ANSI A112.26.1 STANDARDS.	SEE DETAIL 1/P000 FOR INSTALLATION AND SIZING REQUIREMENTS.

NOTES:

1. SEE PLANS FOR REQUIRED DRAIN PIPE SIZES.



INSTALL PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS. PROVIDE A WATER HAMMER ARRESTOR AT ALL QUICK CLOSING VALVES.

SINGLE/DOUBLE FIXTURE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

MULTIPLE FIXTURES

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
WATER CLOSET (F.V.)	10	--
WATER CLOSET (TANK)	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

FOR BATTERIES OF FIXTURES, PROVIDE WATER HAMMER ARRESTERS (SA-X) BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 & ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN-LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO WATER HAMMER ARRESTOR WHERE REQUIRED BY LOCAL CODE.

1 P000 **WATER HAMMER ARESTOR DETAIL**
NOT TO SCALE

MEDICAL GAS EQUIPMENT SCHEDULE

ITEM NAME	MANUFACTURER / MODEL NO.	NOTES
MEDICAL GAS - ZONE VALVES AND BOXES (ZVB-1)	BEACON MEDAES ZVB3-AAB-ENG (3 VALVE BOX) 1/2" O2, 1/2" MA, AND 3/4" MV	MOUNTING HEIGHT AT 5'-2" TO CENTER OF BOX.
MEDICAL GAS - ZONE VALVES AND BOXES (ZVB-2)	BEACON MEDAES ZVB3-BBE-ENG (3 VALVE BOX) 3/4" O2, 3/4" MA, AND 1-1/2" MV	MOUNTING HEIGHT AT 5'-2" TO CENTER OF BOX.
MEDICAL GAS - AREA ALARM PANEL (AAP-1)	BEACON MEDAES MEGA 3 ALARM, THREE ALARMS MODEL #M3-A10-OAV. PROVIDE REMOTE GAS SENSORS WITHIN ZONE VALVE BOXES FOR: OXYGEN # 4107-4016-75 MEDICAL AIR # 4107-4016-77 VACUUM # 4107-4016-78 PROVIDE REMOTE SENSOR KIT FOR EACH GAS WITHIN (ZVB) # 4107-4016-25	MOUNTING HEIGHT AT 5'-2" TO CENTER OF BOX. PROVIDE AND MAKE ALL REQUIRED CONNECTIONS TO REMOTE SENSORS.
MEDICAL GAS OUTLET O2	BEACON MEDAES B-121100-00 DISS KEY SERIES	MOUNT AT HEIGHT SHOWN ON ARCHITECTURAL ELEVATIONS.
MEDICAL GAS OUTLET MA	BEACON MEDAES B-121102-00 DISS KEY SERIES	MOUNT AT HEIGHT SHOWN ON ARCHITECTURAL ELEVATIONS.
MEDICAL GAS OUTLET MV	BEACON MEDAES B-121103-00 DISS KEY SERIES	MOUNT AT HEIGHT SHOWN ON ARCHITECTURAL ELEVATIONS.

NOTES:

1. PROVIDE COMPLETE WALL OUTLET ASSEMBLIES FOR WALL MOUNTED OUTLETS AND CONSOLE OUTLETS FOR CASEWORK OUTLETS FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND CASEWORK DRAWINGS.

MEDICAL GAS ZONE VALVE BOX SCHEDULE

ZONE VALVE BOX	MEDICAL GAS VALVE SIZE	ROOM SERVED
ZVB-1-(AAP-1)	1/2" O2, 1/2" MA, AND 3/4" MV	CATH LAB GC-119
ZVB-2-((E) AAP)	3/4" O2, 3/4" MA, AND 1 1/2" MV	EXISTING NURSE WORK GC-127

PLUMBING SPECIFICATIONS

DRAINAGE PIPING (SANITARY & STORM):

ALL UNDERGROUND SANITARY & VENT PIPING SHALL BE HUB AND SPIGOT CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE® AND LISTED BY NSF® INTERNATIONAL. PIPE AND FITTINGS TO BE SERVICE (SV) JOINTS CAN BE MADE USING A COMPRESSION GASKET MANUFACTURED FROM AN ELASTOMER MEETING THE REQUIREMENTS OF ASTM C 564 OR LEAD AND OAKUM. ALL PIPE AND FITTINGS TO BE PRODUCED BY A SINGLE MANUFACTURER AND ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODE REQUIREMENTS. THE SYSTEM SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION TO 10 FT. OF HEAD (4.3 PSI MAXIMUM).

ALL ABOVE GROUND SANITARY & VENT PIPING SHALL BE HUBLESS CAST IRON PIPE AND FITTINGS SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888 AND CISPI STANDARD 301. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE® AND LISTED BY NSF® INTERNATIONAL. HUBLESS COUPLINGS SHALL CONFORM TO CISPI STANDARD 310, SHALL BE MANUFACTURED IN THE UNITED STATES, AND BE CERTIFIED BY NSF® INTERNATIONAL. HEAVY DUTY COUPLINGS SHALL CONFORM TO ASTM C 1540, SHALL BE MANUFACTURED IN THE UNITED STATES, AND SHALL BE USED IF INDICATED. GASKETS SHALL CONFORM TO ASTM C 564. ALL PIPE AND FITTINGS TO BE PRODUCED BY A SINGLE MANUFACTURER AND ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODE REQUIREMENTS. COUPLINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S BAND TIGHTENING SEQUENCE AND TORQUE RECOMMENDATIONS. TIGHTEN BANDS WITH A PROPERLY CALIBRATED TORQUE LIMITING DEVICE. THE SYSTEM SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION TO 10 FT. OF HEAD (4.3 PSI MAXIMUM).

DOMESTIC WATER PIPING:
ALL ABOVE GROUND DOMESTIC WATER PIPING SHALL BE LEAD-FREE TYPE "L" COPPER WITH 95/5 SOLDER JOINTS. ALL BELOW GROUND DOMESTIC WATER PIPING SHALL BE LEAD-FREE TYPE "K" SOFT COPPER WITH NO JOINTS BELOW GRADE.

BALL VALVES:
LEAD-FREE ALL BRONZE FULL PORT BALL VALVE WITH 2-1/4" STEM EXTENSION, MULTI-FILL MPTFE SEALS AND STEM PACKING AND "SOLID BALL" DESIGN THAT DELIVERS TRUE FULL-PORT FLOW PERFORMANCE. ANSI/NSF 61-8 180 F (MECHANICAL DEVICES)

CHECK VALVES:
MSS SP-139 LEAD-FREE ALL BRONZE SWING "HORIZONTAL FLOW" ASTM B 62, THREADED, SOLDERED, AND PRESS, PTFE DISC.

BALANCE VALVES:
CIRCUIT SOLVER SHALL REGULATE THE FLOW OF RECIRCULATED DOMESTIC HOT WATER BASED ON ENTERING TEMPERATURE THE CIRCUIT SOLVER ASSEMBLY REGARDLESS OF SYSTEM OPERATING PRESSURE. AS THE WATER TEMPERATURE INCREASES THE VALVE PROPORTIONALLY CLOSES DYNAMICALLY ADJUSTING FLOW TO MEET THE SPECIFIED TEMPERATURE. NSF/ANSI 61 AND ZERO LEAD CONTENT CERTIFIED.

PIPE INSULATION:
FLAME/SMOKE RATINGS PROVIDE COMPOSITE PIPING INSULATION (INSULATION, JACKETS, COVERINGS, SEALERS, MASTIC AND ADHESIVES) WITH FLAME-SPREAD RATING OF 25 OR LESS AND SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD.

INSULATION FOR PIPING AND FITTINGS SHALL BE FIBERGLASS WITH ALL SERVICE JACKET VAPOR BARRIER CONSISTING OF WHITE KRAFT PAPER BONDED TO ALUMINUM FOIL, REINFORCED WITH FIBERGLASS YARN, SUITABLE FOR PAINTING.

INSULATION FOR STEAM AND STEAM CONDENSATE PIPING AT 250 °F AND BELOW, NPS 3-1/2" AND SMALLER, SHALL BE 2-1/2" THICK MINERAL FIBER, PREFORMED PIPE, TYPE I OR II, OR 3" THICK CELLULAR GLASS. INSULATION FOR STEAM AND STEAM CONDENSATE OUTDOOR PIPING SHALL BE CELLULAR GLASS.

SYSTEM	INSULATION THICKNESS
COLD WATER:	1/2" THICK
HOT WATER:	1" THICK

HANGERS-ISOLATORS:
HORIZONTAL LINES SHALL HAVE HANGERS AND RODS ADEQUATE FOR SIZE, MATERIAL AND SERVICE, IN CONFORMANCE WITH PLUMBING CODE AND MANUFACTURER'S RECOMMENDATION, ALL HANGERS IN CONTACT WITH COPPER PIPING SHALL BE COPPER OR COPPER CLAD.

PIPE IDENTIFICATION:
PROVIDE PIPE MARKERS ON PIPING OF THE FOLLOWING PIPING SYSTEM(S). FOR EACH SYSTEM IDENTIFIED USE BOLD LETTERING A MINIMUM OF 1/2" HIGH. PIPE MARKERS SHALL MATCH THE EXISTING COLOR SCHEME AND WORDING USED IN THE EXISTING BUILDING. IF A STANDARDIZED SYSTEM IS NOT UTILIZED, THEN THE FOLLOWING SHALL BE USED.

SYSTEM IDENTIFIED	PIPE MARKER COLOR	LETTERING COLOR
COLD WATER	GREEN	WHITE
HOT WATER	YELLOW	BLACK (INDICATING TEMP)

LOCATE PIPE MARKERS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES, ACCESSIBLE MAINTENANCE SPACES (SHAFTS, TUNNELS, PLENUMS) AND EXTERIOR NON-CONCEALED LOCATIONS, ON PIPING ABOVE REMOVABLE ACOUSTICAL CEILINGS, AND ALL OTHER AREAS SPACED INTERMEDIATELY AT MAXIMUM SPACING OF 50 FT ALONG EACH RUN, EXCEPT REDUCED SPACING TO 25 FT. IN CONGESTED AREAS OF PIPING AND EQUIPMENT. PRINT EACH PIPE MARKER WITH ARROWS INDICATING DIRECTION OF FLOW, EITHER INTEGRALLY WITH PIPING SYSTEM SERVICE LETTERING OR AS A SEPARATE UNIT.

FIRE STOPPING:
FIRE STOP ALL PENETRATIONS BY PIPING OF EXISTING AND/OR NEW FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-84. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH AN 'F' RATING EQUAL TO THE RATING OF ASSEMBLY BEING PENETRATED. (REFER TO ARCHITECTURAL PLANS FOR ALL WALL RATINGS.)

MEDICAL GAS SPECIFICATIONS

MED GAS:

OVERVIEW

ALL MEDICAL GAS SYSTEMS (OUTLETS, PIPING, FITTINGS AND VALVES) SHALL COMPLY WITH NFPA 99 (2021) AND CGA G4.1 AND FGI HOSPITAL GUIDELINES.

ALL MEDICAL GAS PIPING SYSTEM INSTALLERS FOR HEALTH CARE FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 99 AND ASSE STANDARD 6010 FOR MEDICAL-GAS SYSTEM INSTALLERS.

ALL TESTING AND SYSTEM VERIFICATION SHALL BE PER ASSE STANDARD 6020 AND 6030. MEDICAL GAS SYSTEMS SHALL COMPLY WITH NFPA 99 AND CGA G4.1.

ALL MEDICAL GAS SYSTEM CLOSEOUT DOCUMENTS TO INCLUDE EMERGENCY OPERATION AND MAINTENANCE MANUALS.

THIS RENOVATION PROJECT MAY CONSIST OF MULTIPLE PHASES. COORDINATE ANY WORK REQUIRED TO BE PERFORMED DURING NON-STANDARD HOURS. COORDINATE PHASING WITH GENERAL CONTRACTOR AND OWNER.

ANY NEW CONNECTION TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER A MINIMUM OF 48 HOURS IN ADVANCE. NEW SYSTEM SHALL BE CERTIFIED INCLUDING THE REPORT DOCUMENT SUBMITTED AND ACCEPTABLE BY THE OWNER.

BASIS OF DESIGN

PIPING

MEDICAL VACUUM - MED GAS PIPING SHALL BE ASTM B 819 TYPE "K" COPPER CLEAN, PURGED, AND SEALED FOR MEDICAL GAS SERVICE WITH BRAZED JOINTS.
OPERATING PRESSURE = 19" HG.

MEDICAL AIR - MED GAS PIPING SHALL BE ASTM B 819 TYPE "K" COPPER CLEAN, PURGED, AND SEALED FOR MEDICAL GAS SERVICE WITH BRAZED JOINTS.
OPERATING PRESSURE = 50-55 PSIG.

MEDICAL OXYGEN - MED GAS PIPING SHALL BE ASTM B 819 TYPE "K" COPPER CLEAN, PURGED, AND SEALED FOR MEDICAL GAS SERVICE WITH BRAZED JOINTS.
OPERATING PRESSURE = 50-55 PSIG.

OUTLETS & PANELS

OUTLETS: (REFER TO MEDICAL GAS EQUIPMENT SCHEDULE)

ALARM PANELS: (REFER TO MEDICAL GAS EQUIPMENT SCHEDULE)

ZONE VALVE PANELS: (REFER TO MEDICAL GAS EQUIPMENT SCHEDULE)

VALVES

ALL MEDICAL GAS VALVES SHALL BE OF THE LOCKABLE TYPE, LOCKS, OF AN ACCEPTABLE TYPE APPROVED BY THE OWNER.

ANY TIE-INS OR CONNECTION TO EXISTING OR CLOSURE OF ANY EXISTING VALVES SHALL BE COORDINATED WITH GENERAL CONTRACTOR AND OWNER.

ISOLATION VALVES:
FORGE BRONZE BODY FULL PORT 1/4 TURN 3-PIECE (FOR IN LINE SERVICE) BALL VALVE, WITH TEFLON SEATS & SEALS, ADJUSTABLE PACKING & BLOW-OUT PROOF STEM, WITH DUAL GAUGE WITH 1/8" PORTS, WITH 100 PSI PRESSURE GAUGES WITH 1-1/2" DIAMETER DIAL, WITH LOCKABLE HANDLES, WORKING PRESSURE RATED FOR 600 PSI AND 29" IN/HG FOR VACUUM, CLEANED FOR OXYGEN SERVICE PER (G-4.1) WITH CAPPED ENDS & SEALED, PROPERLY LABEL MED GAS ID LABELS, COMPLIES WITH NFPA 99 STANDARDS.

CHECK & RELIEF VALVES:
BRASS BODY (B16 C360000) HINGED DOUBLE DISC CHECK VALVE (3-PIECE), WITH EPDM SEALS, ANSI 316 STAINLESS STEEL SPRING, TYPE K COPPER, WITH DUAL GAUGE WITH 1/8" PORTS, WITH 100 PSI PRESSURE GAUGES WITH 1-1/2" DIAMETER DIAL, WORKING PRESSURE RATED FOR 300 PSI, CLEANED FOR OXYGEN SERVICE PER (G-4.1) WITH CAPPED ENDS AND SEALED, PROPERLY LABEL MED GAS ID LABELS, COMPLIES WITH NFPA 99 STANDARDS.

PIPE IDENTIFICATION:
PROVIDE PIPE MARKERS ON PIPING OF THE FOLLOWING PIPING SYSTEM(S). FOR EACH SYSTEM IDENTIFIED USE BOLD LETTERING A MINIMUM OF 1/2" HIGH. PIPE MARKERS SHALL MATCH THE EXISTING COLOR SCHEME AND WORDING USED IN THE EXISTING BUILDING. IF A STANDARDIZED SYSTEM IS NOT UTILIZED, THEN THE FOLLOWING SHALL BE USED.

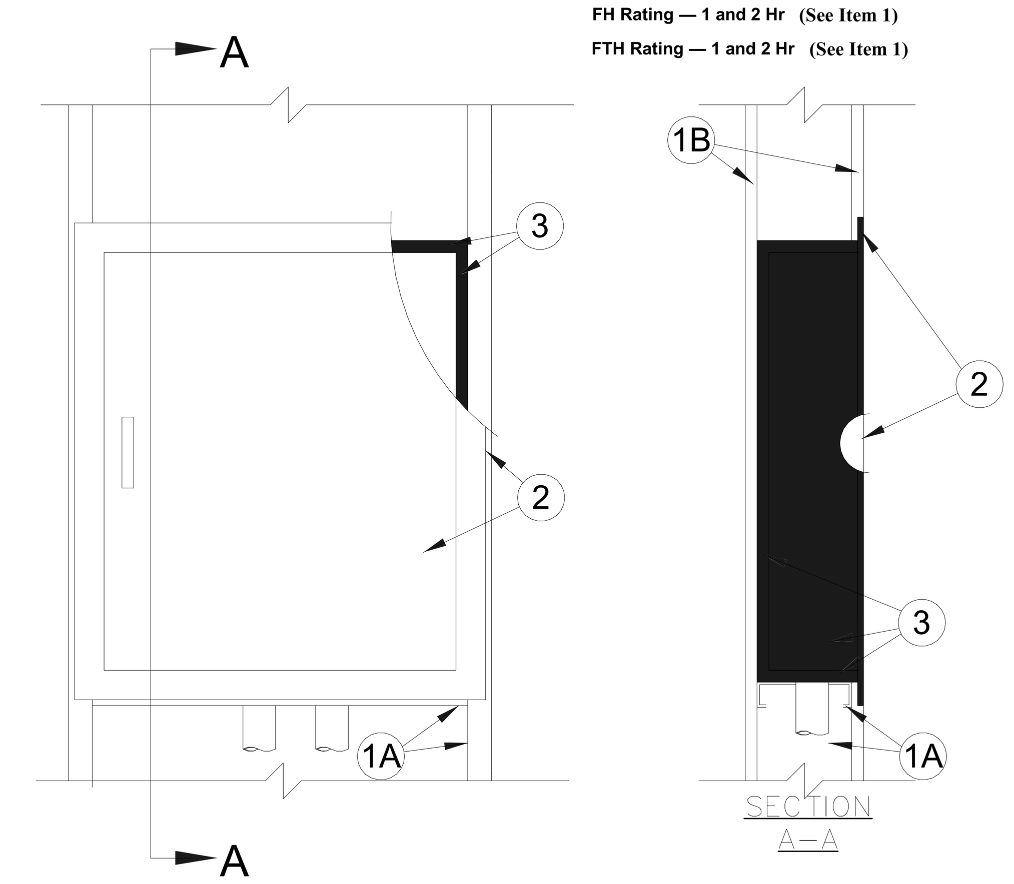
SYSTEM IDENTIFIED	PIPE MARKER COLOR	LETTERING COLOR
MED GAS - OXYGEN	YELLOW	BLACK (INDICATING PSI)
MED GAS - AIR	YELLOW	BLACK (INDICATING PSI)
MED GAS - VACUUM	YELLOW	BLACK (INDICATING HG)

LOCATE PIPE MARKERS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES, ACCESSIBLE MAINTENANCE SPACES (SHAFTS, TUNNELS, PLENUMS) AND EXTERIOR NON-CONCEALED LOCATIONS, ON PIPING ABOVE REMOVABLE ACOUSTICAL CEILINGS, AND ALL OTHER AREAS SPACED INTERMEDIATELY AT MAXIMUM SPACING OF 20 FT ALONG EACH RUN, AT LEAST ONCE ABOVE EACH PATIENT ROOM, ON BOTH SIDES OF CORRIDORS OR PARTITIONS PENETRATED BY THE PIPING, AND LEAST ONCE IN EVERY STOCK HEIGHT TRAVERSED BY RISERS. PRINT EACH PIPE MARKER WITH ARROWS INDICATING DIRECTION OF FLOW, EITHER INTEGRALLY WITH PIPING SYSTEM SERVICE LETTERING OR AS A SEPARATE UNIT.

FIRE STOPPING:
FIRE STOP ALL PENETRATIONS BY PIPING OF EXISTING AND/OR NEW FIRE RATED WALLS, FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-84. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH AN 'F' RATING EQUAL TO THE RATING OF ASSEMBLY BEING PENETRATED. (REFER TO ARCHITECTURAL PLANS FOR ALL WALL RATINGS.)

System No. W-L-7190
April 19, 2012
ANSI/UL1479 (ASTM E814)
F Rating — 1 and 2 Hr (See Item 1)
T Rating — 1 and 2 Hr (See Item 1)

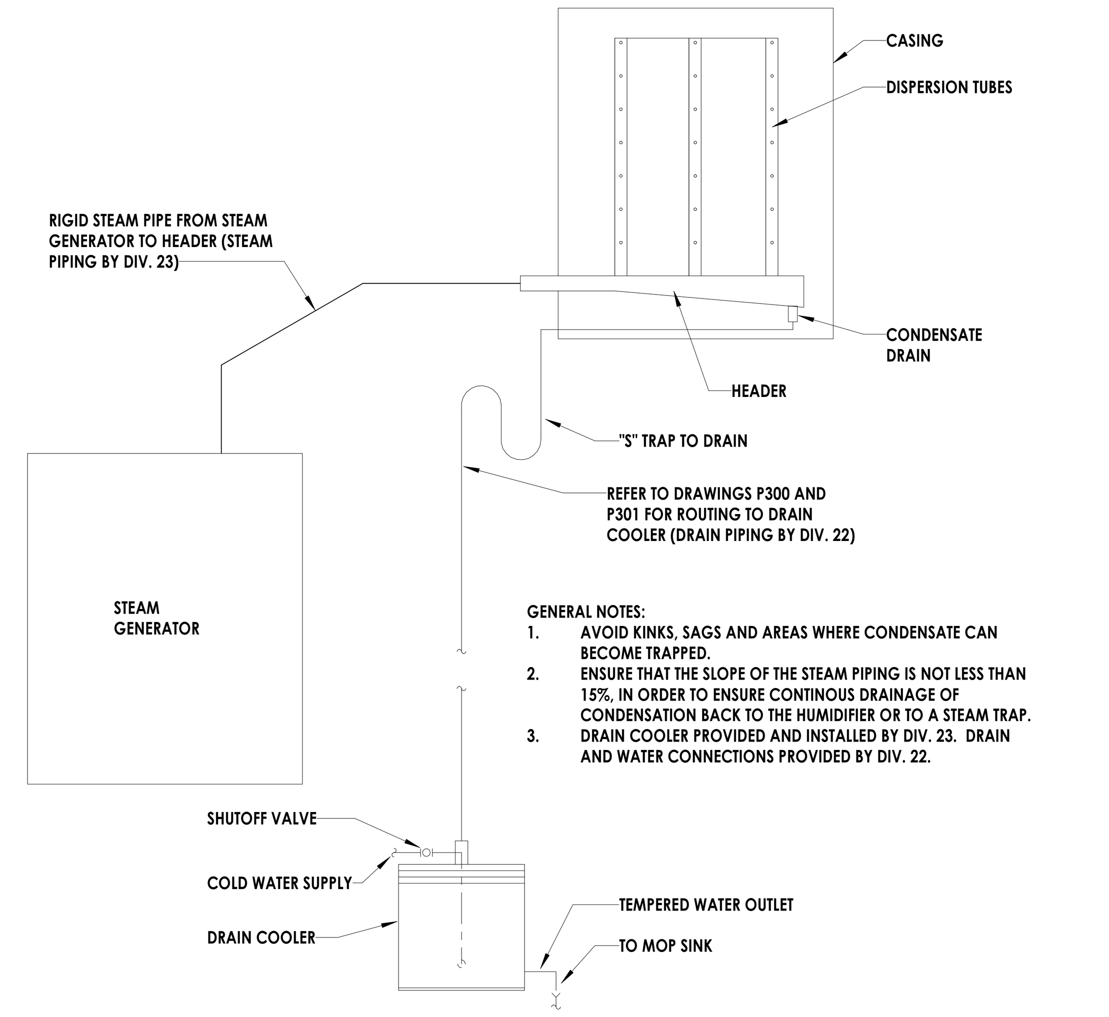
System No. W-L-7190
April 19, 2012
CAN/ULC S115
F Rating — 1 and 2 Hr (See Item 1)
FT Rating — 1 and 2 Hr (See Item 1)
FH Rating — 1 and 2 Hr (See Item 1)
FTH Rating — 1 and 2 Hr (See Item 1)



1. **Wall Assembly —** The 1 or 2 hr fire rated framed gypsum board wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs —** Wall framing shall consist of steel channel studs. Steel studs to be min 6 in. (152 mm) wide and spaced max 24 in. (610 mm) OC. An additional framing member shall be used to form a shelf within the wall cavity to support the steel box (Item 2) and mat fill material (Item 3). The framed opening is to be 1 in. (25 mm) wider than the width of the steel box.
   B. **Gypsum Board* —** The gypsum board type, thickness, number of layers and orientation shall be, as specified in the individual Wall and Partition Design. Size of cutout made to accommodate steel box (Item 2) is to be 1 in. (25 mm) wider and 1 in. (25 mm) higher than the width and height of the steel box.
   The hourly F, T, FT, FH and FTH Ratings are equal to the hourly rating of the wall assembly.
2. **Steel Box —** Min 18 gauge, max 20 in. (508 mm) wide by max 48 in. (1.22 m) high by max 6 in. (152 mm) recessed steel utility box with hinged steel door and mounting flange. Steel box secured to steel studs with steel screws after application of mat material (Item 3) on exterior surfaces of steel box. Bottom and/or top of steel box may be penetrated by one 2 in. (51 mm) diam steel EMT conduit and up to twelve 1 in. (25 mm) max diam installed from the top and one 1 in. (25 mm) and one 3/4 in. (19 mm) diam conduits installed from the bottom of the box.. Open pipes or tubes which terminate within the box shall be sealed with caulk (Item 4) or plugged with a ball of putty (Item 5).
3. **Fill, Void or Cavity Materials* - Mat —** Nominal 0.4 in. (10 mm) thick aluminum foil faced endothermic mat supplied in 24 in. wide rolls. Individual pieces of mat cut to cover four sides and back of box and laminated to box with high strength, fast, contact type adhesive (foil face exposed). The mat sections on the top and bottom of the box shall be cut to overlap the mat sections on the sides of the box. The mat section on the back of the box shall be cut to lap over the edge of the mat sections on the top, bottom and vertical sides of box. Circular cutouts made in the mat to accommodate the pipes or tubes to be 1/4 in. to 1/2 in. (6 to 13 mm) larger than outside diam of pipe or tube. All corners and butted seams in the mat are to be covered with min 2 mil aluminum foil tape.
   3M COMPANY 3M FIRE PROTECTION PRODUCTS — Type E-54A or E-5A-4 Mat
4. **Fill, Void or Cavity Materials* - Caulk or Sealant —** (Not Shown) - Nom 1/4 in. (6 mm) diam bead of caulk applied to the edge of the mat material around the perimeter of the box mounting flange. Additional caulk fill material shall be used to completely fill each circular cutout made in the mat material to accommodate a pipe or tube. The end of each open pipe or tube which terminates within the box shall be sealed with a min 1/2 in. (13 mm) depth of caulk.
   3M COMPANY 3M FIRE PROTECTION PRODUCTS — Type CP 25WB+ Caulk, FB-3000WT Sealant
5. **Fill, Void or Cavity Materials* - Putty —** (Not Shown) - As an alternate to the caulk (Item 4), the end of each open pipe or tube which terminates within the box may be sealed with a min 1/2 in. (13 mm) depth of putty fill material.
   3M COMPANY 3M FIRE PROTECTION PRODUCTS — Type MP+ Moldable Putty

*Bearing the UL Classification Mark

2 P000 **MED GAS ZONE VALVE BOX RATED WALL DETAIL**
NOT TO SCALE



GENERAL NOTES:

1. **AVOID KINKS, SAGS AND AREAS WHERE CONDENSATE CAN BECOME TRAPPED.**
2. **ENSURE THAT THE SLOPE OF THE STEAM PIPING IS NOT LESS THAN 15%, IN ORDER TO ENSURE CONTINOUS DRAINAGE OF CONDENSATION BACK TO THE HUMIDIFIER OR TO A STEAM TRAP.**
3. **DRAIN COOLER PROVIDED AND INSTALLED BY DIV. 23. DRAIN AND WATER CONNECTIONS PROVIDED BY DIV. 22.**

5 P000 **STEAM HUMIDIFIER DRAIN**
N.T.S.

PIPING LEGEND

—— XX ——	PIPING
—— X ——	EXISTING PIPING
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RECIRCULATING
SAN	SANITARY SEWER
ST	STORM SEWER
V	VENT
AW	ACID WASTE
SCR	STEAM CONDENSATE RETURN
TW	TEMPERED WATER
MA	MEDICAL COMPRESSED AIR
O2	OXYGEN
N2O	NITROUS OXIDE
MV	MEDICAL VACUUM
WAGD	WASTE ANESTHESIA GAS DISPOSAL

FIXTURES & FITTINGS LEGEND

	TEE OUTLET - UP
	TEE OUTLET - DOWN
	CONNECTION - BOTTOM
	CONNECTION TOP
	ELBOW - TURNED UP
	ELBOW - TURNED DOWN
	PIPE CAP
	UNION
	BALL VALVE
CO	CLEAN OUT
	POINT OF CONNECTION
	POINT OF REMOVAL

GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH 2024 NORTH CAROLINA PLUMBING CODE, NFPA 99, LOCAL CODES AND AUTHORITY HAVING JURISDICTION.

B. DOMESTIC WATER LINES SHALL BE TYPE L COPPER, LEAD FREE JOINTS. INSULATE ALL PIPING WITH PREFORMED FIBERGLASS PIPE INSULATION WITH ASJ COVER SIZED PER 2024 NORTH CAROLINA ENERGY CONSERVATION CODE. ALL FITTINGS AND VALVES TO BE COVERED WITH PREFORMED PVC FITTING COVERS. ALL EXPOSED VERTICAL FIXTURE SUPPLY LINES TO BE COVERED WITH PVC JACKET TO 7' ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON PLANS OR SPECS.

C. PROVIDE WATER HAMMER ARRESTORS AS REQUIRED BY 2024 NORTH CAROLINA PLUMBING CODE ON BRANCH PIPING TO EACH TOILET ROOM, LAUNDRY ROOM, SOLENOID VALVE, FAST CLOSING VALVE OR AS OTHERWISE REQUIRED BY CODE.

D. UNDERGROUND SANITARY AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON, HUB AND SPIGOT WITH RUBBER GASKET PUSH JOINTS. ABOVE GROUND SANITARY AND VENT PIPING SHALL BE NO-HUB CAST IRON OR DWV COPPER WITH DWV COPPER FITTINGS.

E. UNDERGROUND STORM PIPING SHALL BE SERVICE WEIGHT CAST IRON, HUB AND SPIGOT WITH RUBBER GASKET PUSH JOINTS. ABOVE GROUND STORM PIPING SHALL BE NO-HUB CAST IRON. ROOF DRAIN BODIES AND HORIZONTAL ABOVE GRADE PIPING SHALL BE INSULATED WITH PREFORMED FIBERGLASS PIPE INSULATION.

F. SANITARY AND STORM CLEANOUTS TO BE PROVIDED AS PER 2024 NORTH CAROLINA PLUMBING CODE AT END OF EACH BRANCH, AT LEAST EVERY 100' ALONG THE MAINS AND AT 90 DEGREE CHANGE IN DIRECTION.

G. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.

H. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION. ANY CEILING SYSTEM COMPONENT DAMAGED DURING DEMOLITION, STORAGE, OR RE-INSTALLATION SHALL BE REPLACED WITH A NEW COMPONENT AT NO EXPENSE TO THE OWNER.

I. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PATCH AND FINISH ALL EXISTING PIPE PENETRATIONS AND TRENCHING THRU FLOOR AND WALLS AFTER DEMOLITION. IN ADDITION, ALL NEW PENETRATIONS AND TRENCHING SHALL BE PROVIDED FOR INSTALLATION OF PLUMBING SYSTEM INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, PIPING, ETC.

J. ALL PIPING AND CONDUIT PENETRATIONS THRU RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPING.

K. ALL PIPING SYSTEMS SHALL BE PRESSURE TESTED, PURGED, DISINFECTED AND/OR AIR REMOVED AS DICTATED BY CODE, MANUFACTURER SPECIFICATION, HEALTH DEPARTMENT AND/OR OTHER RELATED INDUSTRY STANDARDS. TEST REPORTS SHALL BE SUBMITTED FOR DOCUMENTATION.

L. COORDINATE MOUNTING OF FIXTURES AND TRIM WITH ARCHITECTURAL ELEVATIONS, MILLWORK, SPECIALTY EQUIPMENT AND ADA GRAB BARS.

M. FLOOR DRAINS AND FLOOR SINKS SHALL BE FLUSH TO FLOOR AND LOCATED AT A LOW POINT IN FLOOR UNLESS OTHERWISE NOTED ON THE PLANS. FLOOR DRAINS SHALL HAVE EITHER A TRAP PRIMER OR TRAP GUARD INSTALLED.

N. SLOPE SANITARY DRAINAGE PIPING 2 1/2" AND LESS MINIMUM OF 1/4" PER FOOT. SLOPE SANITARY DRAINAGE PIPING 3" AND LESS MINIMUM OF 1/8" PER FOOT.

O. PROVIDE SHUTOFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES SERVING TWO OR MORE FIXTURES.

P. INSTALL PIPING SO ALL VALVES, STRAINERS, TRAPS, ETC. ARE ACCESSIBLE.

MED GAS GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH LATEST EDITION OF NFPA 99, ASSE 6010, 6020, & 6030 & (FGI) HOSPITAL DESIGN GUIDELINES.
2. CONTRACTOR SHALL OBTAIN ALL PERMITS, FEES, AND REQUIRED INSPECTIONS.
3. THE CONTRACTOR SHALL PROVIDE WARRANTIES FOR ALL WORK, EQUIPMENT, MATERIAL AND DEVICES FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. EXTENDED WARRANTIES SHALL BE PROVIDED AS NOTED.
4. PLANS ARE DIAGRAMTIC. CONTRACTOR SHALL PROVIDE ALL OFFSET, PIPE FITTINGS AND ACCESSORIES FOR A COMPLETE MEDICAL GAS SYSTEM.
5. CONTRACTOR SHALL IMPLEMENT A COMPREHENSIVE COMMISSIONING TO PROVIDE A COMPLETE AND FUNCTIONING MEDICAL GAS SYSTEM.
6. PLANS AND ISOMETRICS ARE DIAGRAMTIC. PLUMBING CONTRACTOR SHALL PROVIDE ALL OFFSETS, PIPE FITTINGS AND ACCESSORIES FOR A COMPLETE PLUMBING SYSTEM.
7. COORDINATE ALL MEDICAL GAS PIPING SYSTEM CONNECTIONS WITH GENERAL CONTRACTOR AND OWNER.
8. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF WALLS AND PARTITIONS INCLUDING MATERIALS OF CONSTRUCTION, WALL SIZE AND THICKNESS.
10. PROVIDE FIRE RATED MATERIALS AS REQUIRED IN FIRE RATED WALLS.
11. ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR HAVE A FLAME INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84.

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NC ENGINEERING FIRM LICENSE NO. C-2194

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

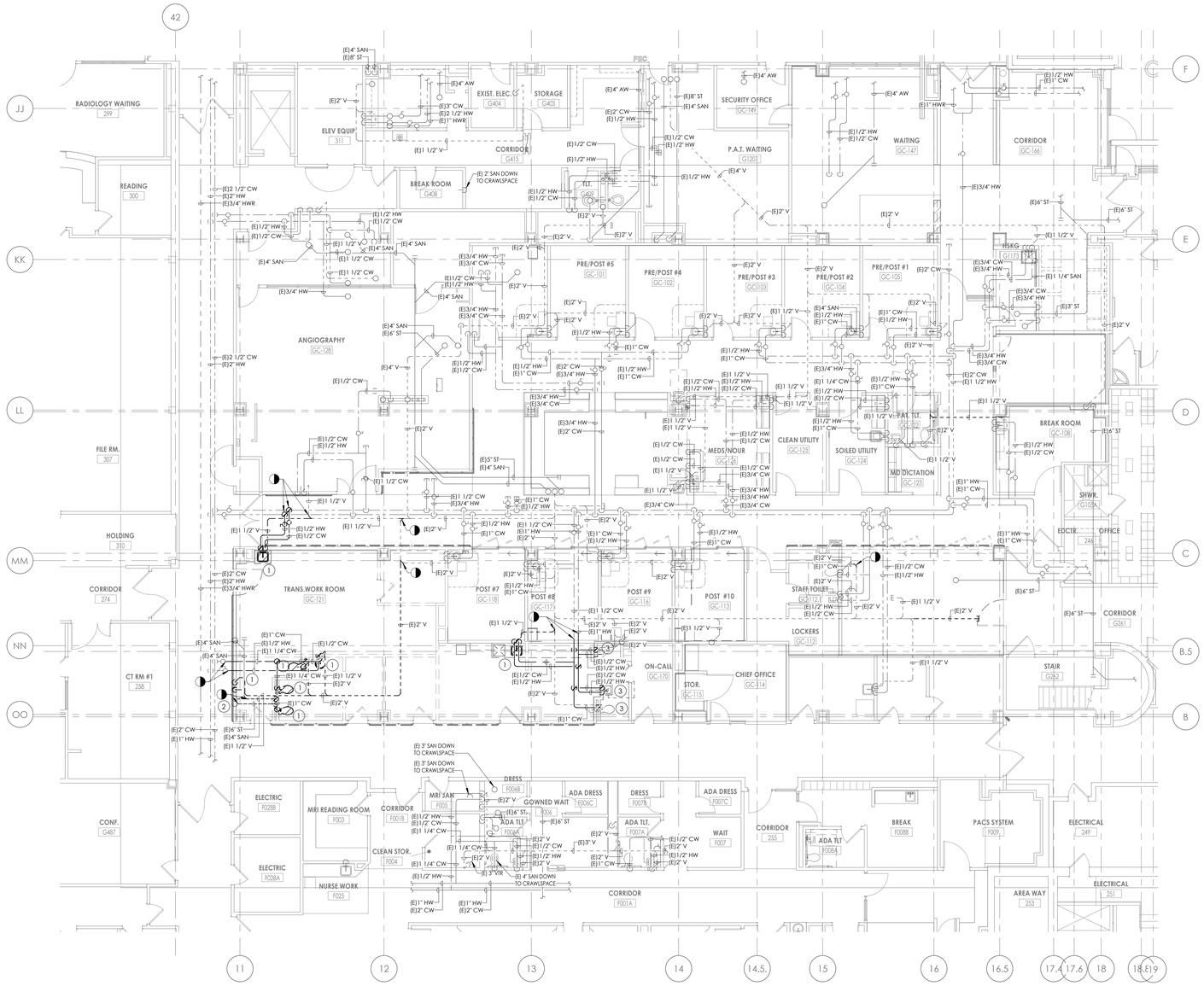
PROFESSIONAL STAMPS

SHEET INFORMATION
Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: TJB
Checked By: GAK
Drawing Title: PLUMBING LEGEND, NOTES, & SYSTEM DIAGRAMS
Drawing Number: - P000

11/13/2025 3:03:17 PM PROJECT FILES ON ACC

KEY NOTES

1. REMOVE FIXTURE AND ALL ASSOCIATED PIPING AND SUPPORTS. PREPARE SANITARY POINT OF DISCONNECTION FOR FUTURE WORK. CAP VENT PIPING ABOVE CEILING. REMOVE WATER PIPING BACK TO NEAREST LIVE MAIN AND CAP. REMOVE ALL PIPING SUCH THAT LIMITED DEAD END PIPING REMAINS BUT ALL REMAINING BUILDING FIXTURES HAVE NECESSARY PIPING. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING.
2. DEMOLISH EXISTING SANITARY AND STORM PIPING ABOVE CEILING AND DOWN TO MAINS IN CRAWLSPACE. SEE CRAWLSPACE DEMOLITION PLAN ON P100U FOR CONTINUATION. PREPARE POINT OF DISCONNECTION FOR NEW WORK.
3. DEMOLISH DOMESTIC WATER PIPING BACK TO POINT SHOWN ON PLANS. CAP AND PREPARE POINT OF DISCONNECTION FOR NEW WORK.

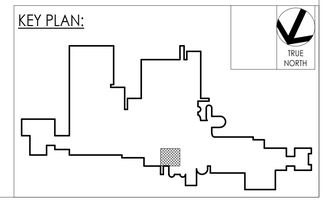


1 P100 **FIRST FLOOR PIPING DEMOLITION PLAN**

1/8" = 1'-0"

TRUE NORTH

KEY PLAN:



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#	Date	Description

PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL SEAL 27586 ENGINEER GREGORY A. KOZIOL 11-14-25 15089

SHEET INFORMATION

Issued
11/14/2025

Scale
1/8" = 1'-0"

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
TJB

Checked By
GAK

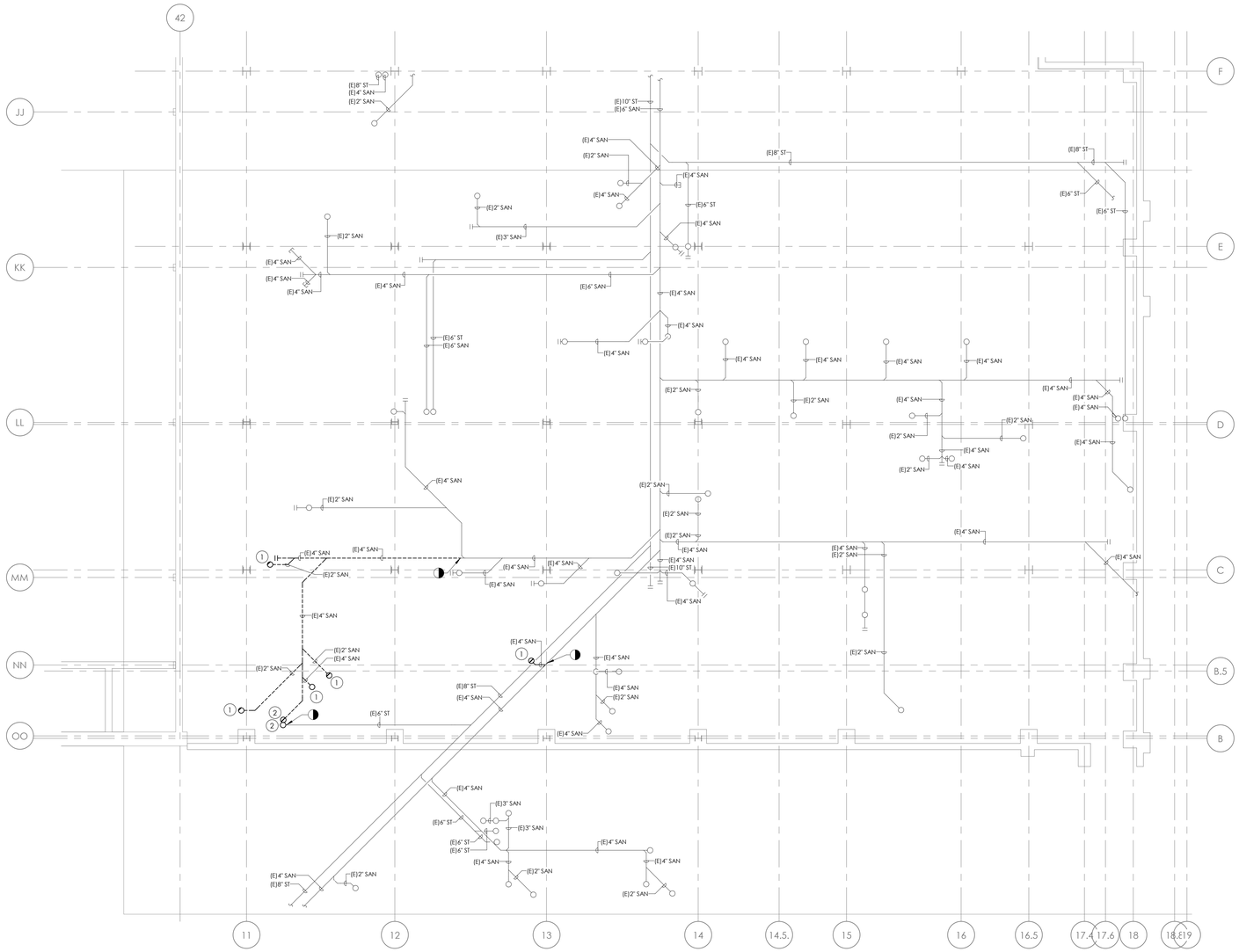
Drawing Title
GROUND FLOOR PIPING DEMOLITION PLAN

Drawing Number
-
P100

11/13/2025 3:03:23 PM PROJECT FILES ON ACC

KEY NOTES

1. REMOVE FIXTURE AND ALL ASSOCIATED PIPING AND SUPPORTS. PREPARE SANITARY POINT OF DISCONNECTION FOR FUTURE WORK. REMOVE ALL PIPING SUCH THAT LIMITED DEAD END PIPING REMAINS BUT ALL REMAINING BUILDING FIXTURES HAVE NECESSARY PIPING. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING.
2. DEMOLISH EXISTING SANITARY AND STORM PIPING BACK TO POINT SHOWN ON PLANS. PREPARE POINT OF DISCONNECTION FOR NEW WORK.



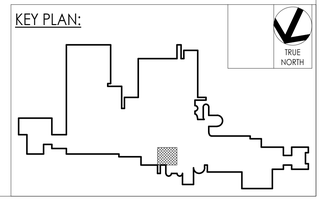
2 P100U

TRUE NORTH

CRAWLSPACE PIPING DEMOLITION PLAN

1/8" = 1'-0"

KEY PLAN:



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PROFESSIONAL STAMPS

SHEET INFORMATION

Issued
11/14/2025

Scale
1/8" = 1'-0"

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
TJB

Checked By
GAK

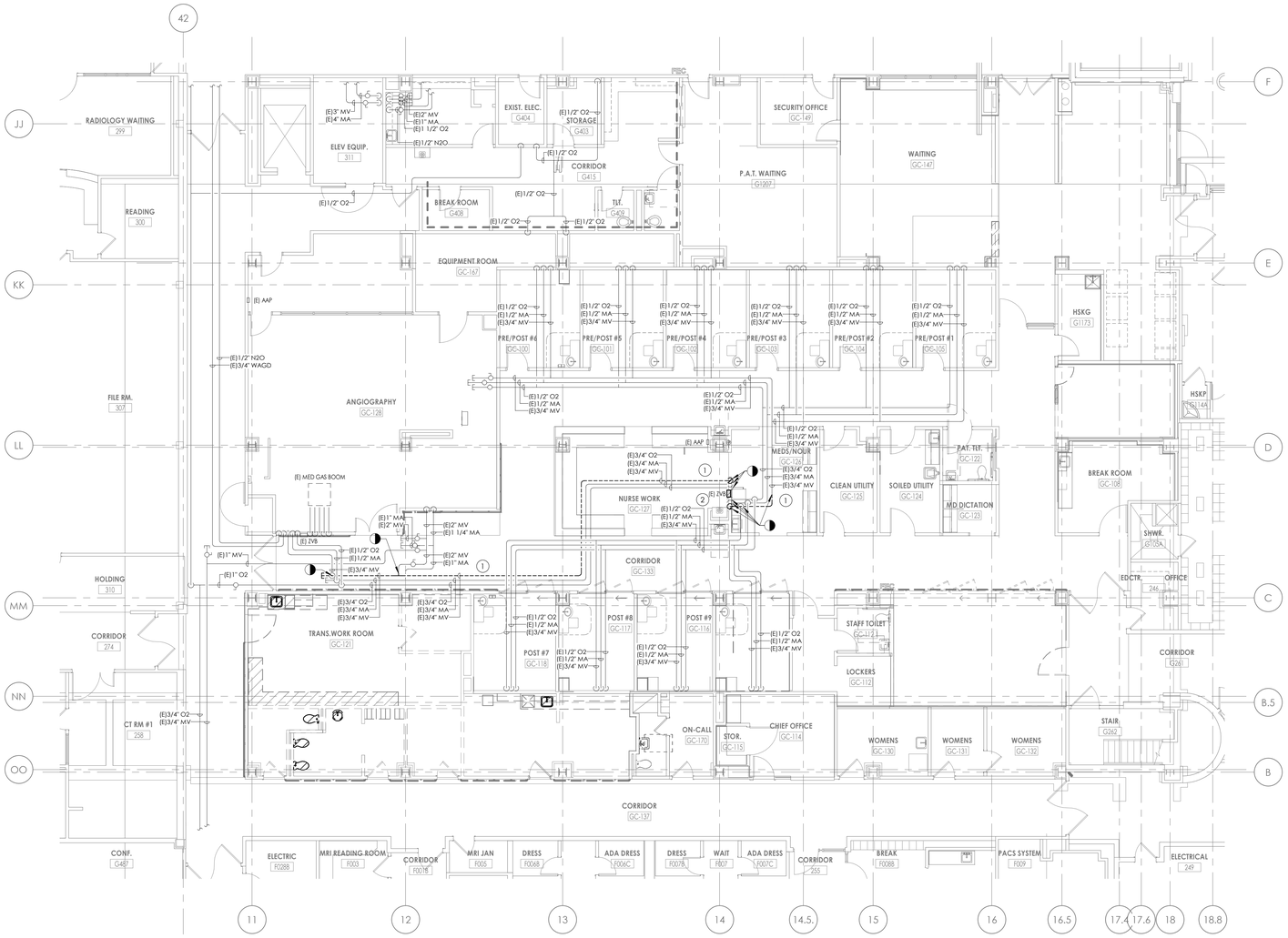
Drawing Title
CRAWLSPACE PIPING DEMOLITION PLAN

Drawing Number
-
P100U

11/13/2025 3:03:24 PM PROJECT FILES ON ACC

KEY NOTES

1. CONTRACTOR SHALL REMOVE EXISTING MEDICAL GAS PIPING TO POINT SHOWN ON DRAWING. PREPARE FOR NEW GAS PIPING CONNECTIONS. COORDINATE SHUT OFF MEDICAL GAS PIPING WITH GENERAL CONTRACTOR AND HOSPITAL STAFF.
2. REMOVE EXISTING MED GAS VALVE BOX AND ASSOCIATED VALVES. REMOVE EXISTING 3/4" VACUUM VALVE.



TRUE NORTH

1 / P110 **MED GAS PIPING DEMOLITION PLAN**

1/8" = 1'-0"

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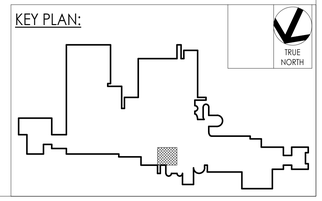
PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL SEAL 27581 ENGINEER JOHN A. NYE 11-14-25 18089

KEY PLAN:



SHEET INFORMATION

Issued: 11/14/2025
Scale: 1/8" = 1'-0"
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: TJB
Checked By: GAK
Drawing Title: GROUND FLOOR MED GAS PIPING DEMOLITION PLAN
Drawing Number: P110

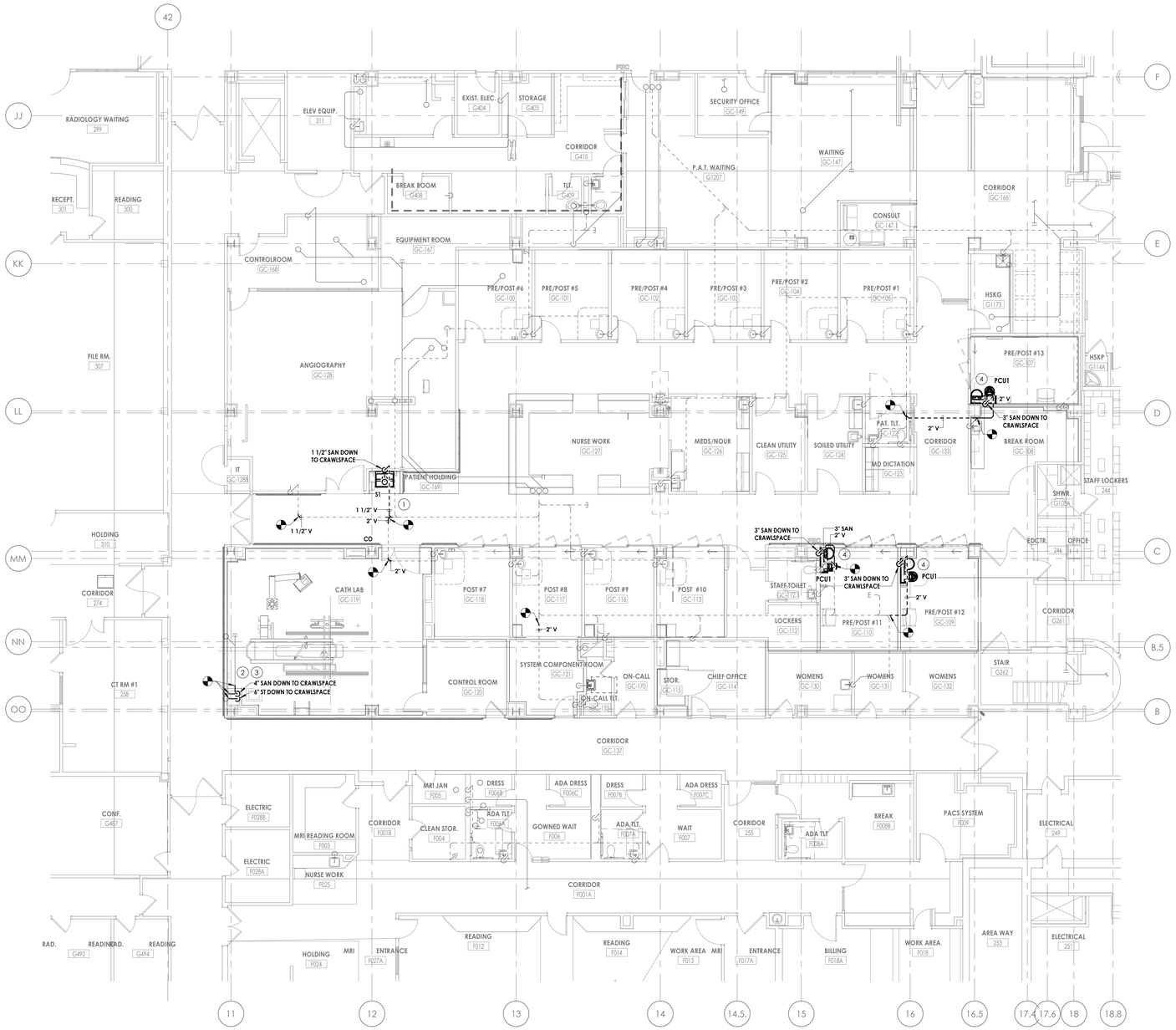
11/13/2025 3:02:28 PM PROJECT FILES ON ACC

GENERAL NOTES

A. CONTRACTOR TO VERIFY EXACT LOCATIONS OF EXISTING PIPING PRIOR TO ANY DEMOLITION AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY ISSUES FOUND.

KEY NOTES

1. CONNECT NEW FIXTURE INTO EXISTING SANITARY PIPING WITHIN CRAWL SPACE AND EXISTING VENT PIPING AS SHOWN ON PLANS. SEE CRAWLSPACE NEW WORK PLAN ON P200U FOR CONTINUATION.
2. PROVIDE A METAL DRAIN PAN BELOW ALL SANITARY AND STORM WATER PIPING ABOVE CEILING CAVITY AND ROUTE DRAIN PIPING TO NEAREST FLOOR SINK AS REQUIRED.
3. CONTRACTOR TO VERIFY IF EXISTING LINES HAVE SUFFICIENT CLEARANCE. SHOULD EXISTING WORK NOT PROVIDE SUFFICIENT CLEARANCE TO COORDINATE WORK WITH ALL DISCIPLINES, CONTRACTOR TO INFORM THE ARCHITECT AND ENGINEER AND RAISE.
4. CONNECT NEW PATIENT CARE UNIT INTO EXISTING SANITARY PIPING WITHIN CRAWL SPACE AND EXISTING VENT PIPING AS SHOWN ON PLANS. SEE CRAWLSPACE NEW WORK PLAN ON P200U FOR CONTINUATION.



TRUE NORTH

1 / P200 **FIRST FLOOR SANITARY AND VENT PIPING NEW WORK PLAN**

1/8" = 1'-0"

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Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

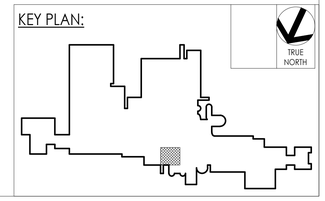
PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL SEAL 27261 ENGINEER GREGORY A. CHUNG 11-14-25

SHEET INFORMATION

Issued: 11/14/2025
Scale: 1/8" = 1'-0"
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: TJB
Checked By: GAK
Drawing Title: GROUND FLOOR SANITARY, VENT, AND STORM PIPING NEW WORK PLAN
Drawing Number: P200

KEY PLAN:



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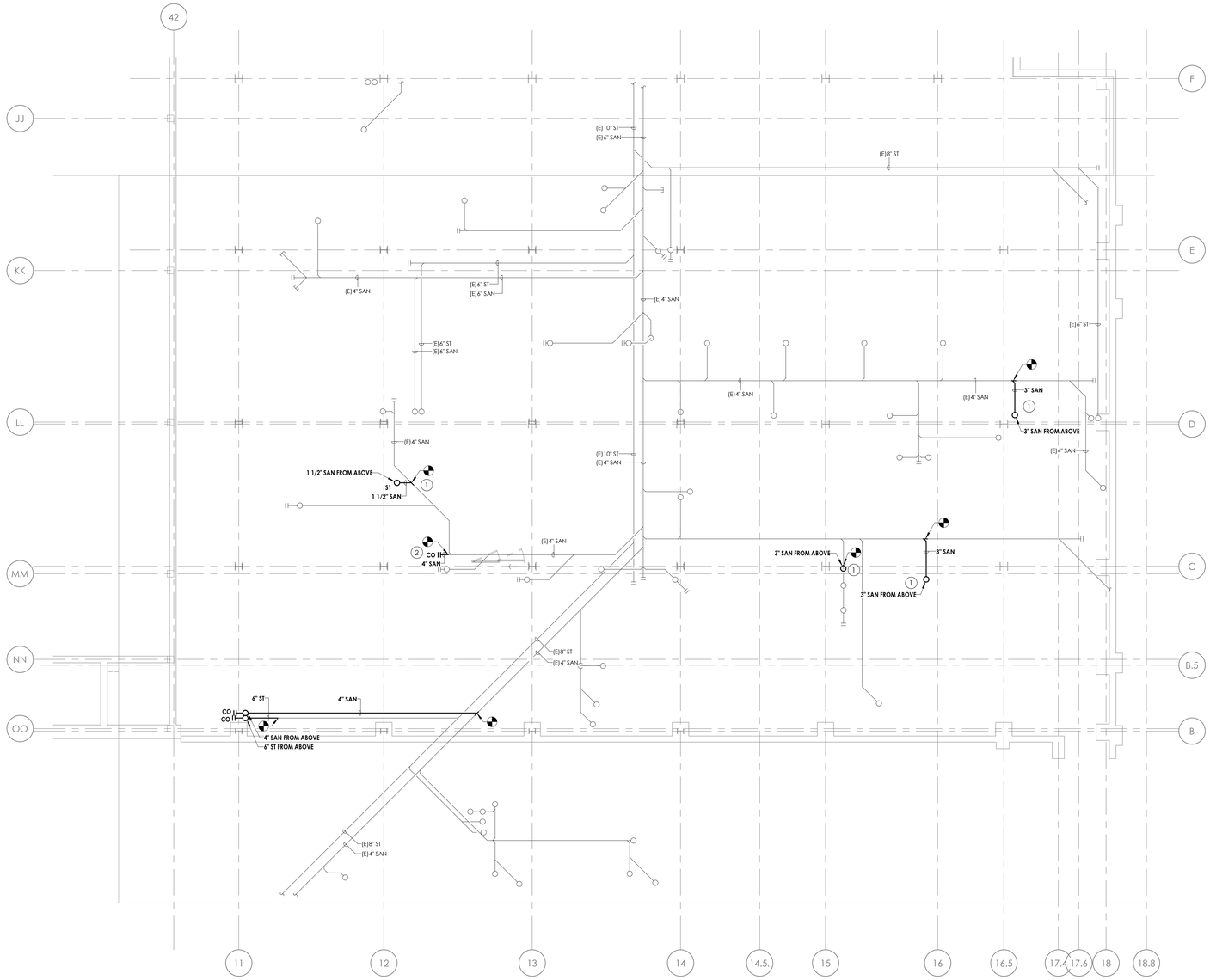
GENERAL NOTES

A. CONTRACTOR TO VERIFY EXACT LOCATIONS OF EXISTING PIPING PRIOR TO ANY DEMOLITION AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY ISSUES FOUND.

KEY NOTES

1. CONNECT NEW FIXTURE INTO EXISTING SANITARY PIPING WITHIN CRAWL SPACE AS SHOWN ON PLANS.
2. CONNECT NEW CLEANOUT TO SANITARY SYSTEM WITHIN CRAWL SPACE AS SHOWN ON PLANS.



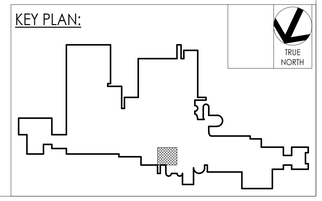
TRUE NORTH

2 / P200U

CRAWLSPACE SANITARY AND VENT PIPING NEW WORK PLAN

1/8" = 1'-0"

KEY PLAN:



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PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

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Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: TJB
Checked By: GAK
Drawing Title: CRAWLSPACE SANITARY, VENT, AND STORM PIPING NEW WORK PLAN
Drawing Number: -
P200U

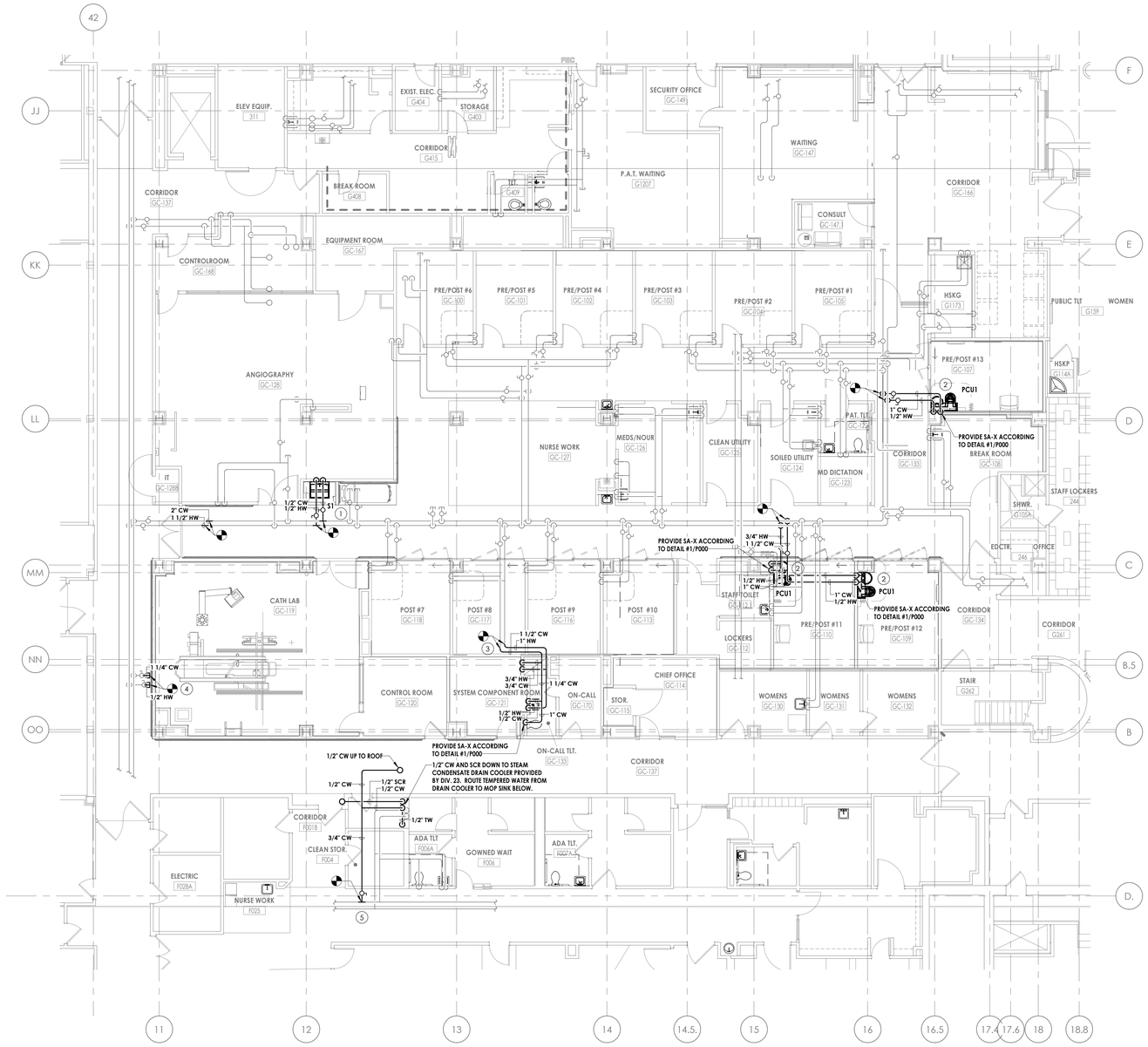
11/13/2025 3:03:31 PM PROJECT FILES ON ACC

GENERAL NOTES

A. CONTRACTOR TO VERIFY EXACT LOCATIONS OF EXISTING PIPING PRIOR TO ANY DEMOLITION AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY ISSUES FOUND.

KEY NOTES

1. CONTRACTOR SHALL PROVIDE NEW SCRUB SINK AND WALL MOUNTED CARRIER. ROUTE 1/2" COLD AND 1/2" HOT WATER PIPING DOWN WITHIN WALL CAVITY. CONNECT TO EXISTING DOMESTIC WATER PIPING AS SHOWN ON PLANS. PROVIDE WITH THERMOSTATIC MIXING VALVE BELOW SINK. SET TEMPERED WATER TO 110 °F WATER.
2. ROUTE 1" COLD AND 1/2" HOT WATER PIPING DOWN WITHIN WALL CAVITY TO NEW PATIENT CARE UNIT. PROVIDE WITH VACUUM BREAKER AT POINT OF CONNECTION. CONNECT TO EXISTING DOMESTIC WATER PIPING AS SHOWN ON PLANS. PROVIDE WITH THERMOSTATIC MIXING VALVE BELOW SINK. SET TEMPERED WATER TO 110 °F WATER. COORDINATE WITH MODULAR CABINET CONTRACTOR FOR CONNECTION TO THIS UNIT.
3. ROUTE DOMESTIC WATER PIPING ABOVE CEILING IN ON-CALL TLT ROOM TO AVOID SYSTEM COMPONENT ROOM. ROUTE PIPE WITHIN WALL CAVITY TO CONNECT TO EXISTING FIXTURES. SEE PLAN FOR SYSTEM AND SIZE OF PIPES.
4. DEMOLISH DOMESTIC WATER PIPING BACK TO BALL VALVES IN THE CORRIDOR AND CAP IN THE CORRIDOR. IF THERE ARE NO BALL VALVES IN THE CORRIDOR ALONG THE LINES TO BE DEMOLISHED, PATCH MAINS IN CORRIDOR TO MATCH EXISTING. COORDINATE WITH BUILDING OWNER BEFORE COMMENCING WORK ON DOMESTIC WATER LINES IN CORRIDOR. CONSTRUCTION MAY REQUIRE PROLONGED SHUTDOWN. CONTRACTOR TO LOCATE NEAREST SHUTDOWN VALVE BEFORE BEGINNING WORK.
5. COORDINATE WITH BUILDING OWNER BEFORE COMMENCING WORK ON DOMESTIC WATER LINES IN CORRIDOR. CONSTRUCTION MAY REQUIRE PROLONGED SHUTDOWN. CONTRACTOR TO LOCATE NEAREST SHUTDOWN VALVE BEFORE BEGINNING WORK.

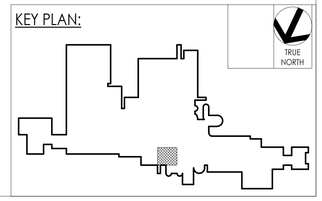


1 P300 TRUE NORTH

DOMESTIC PIPING NEW WORK PLAN

1/8" = 1'-0"

KEY PLAN:



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11/14/2025

Scale
1/8" = 1'-0"

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
TJB

Checked By
GAK

Drawing Title
GROUND FLOOR DOMESTIC WATER PIPING NEW WORK PLAN

Drawing Number
-
P300

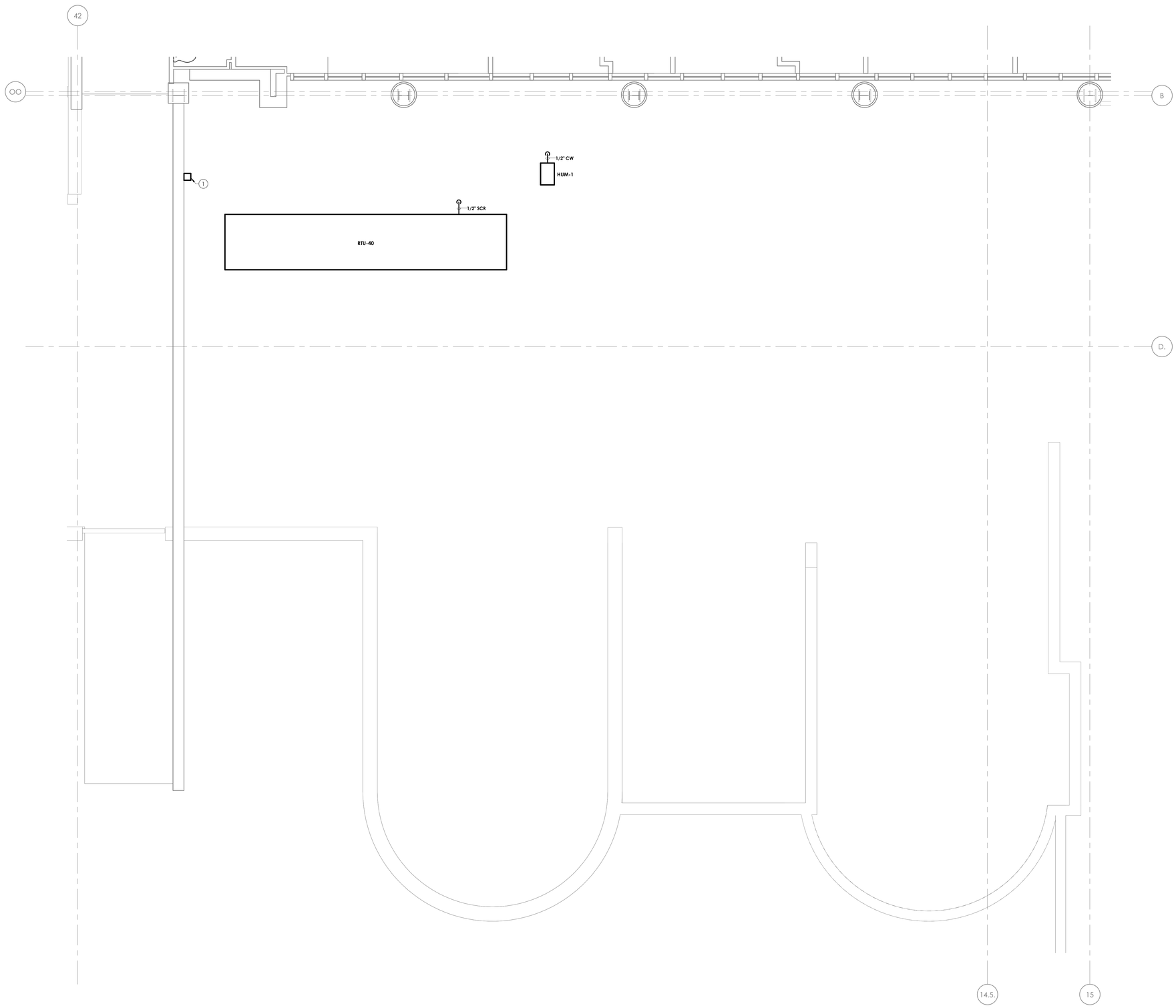
11/13/2025 3:03:33 PM PROJECT FILES ON ACC

GENERAL NOTES

A. CONTRACTOR TO VERIFY EXACT LOCATIONS OF EXISTING PIPING PRIOR TO ANY DEMOLITION AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY ISSUES FOUND.

KEY NOTES

1. PROVIDE CHROMALOX HEAT TRACE ON HWWS/R (SEE H201) AND WATER LINE TO STEAM GENERATOR. PROVIDE TWO CIRCUIT INTELLITRACE HEAT TRACE CONTROLLER AND TIE INTO HOSPITAL'S BMS. HEAT TRACE SHALL BE DESIGNED FOR 5 WATTS/FT. MOUNT CONTROL PANEL ON EXISTING BRICK WALL.

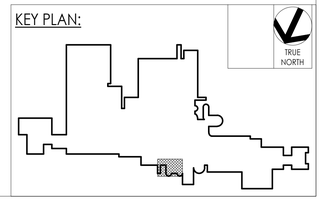


2 P301 TRUE NORTH

PARTIAL GROUND FLOOR HVAC ROOF PLAN Copy 1

1/4" = 1'-0"

KEY PLAN:



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PROFESSIONAL STAMPS

SHEET INFORMATION

Issued
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Scale
As indicated

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
TJB

Checked By
GAK

Drawing Title
ROOF DOMESTIC WATER PIPING NEW WORK PLAN

Drawing Number
-
P301

11/13/2025 3:03:34 PM PROJECT FILES ON ACC

MEDICAL GAS LEGEND

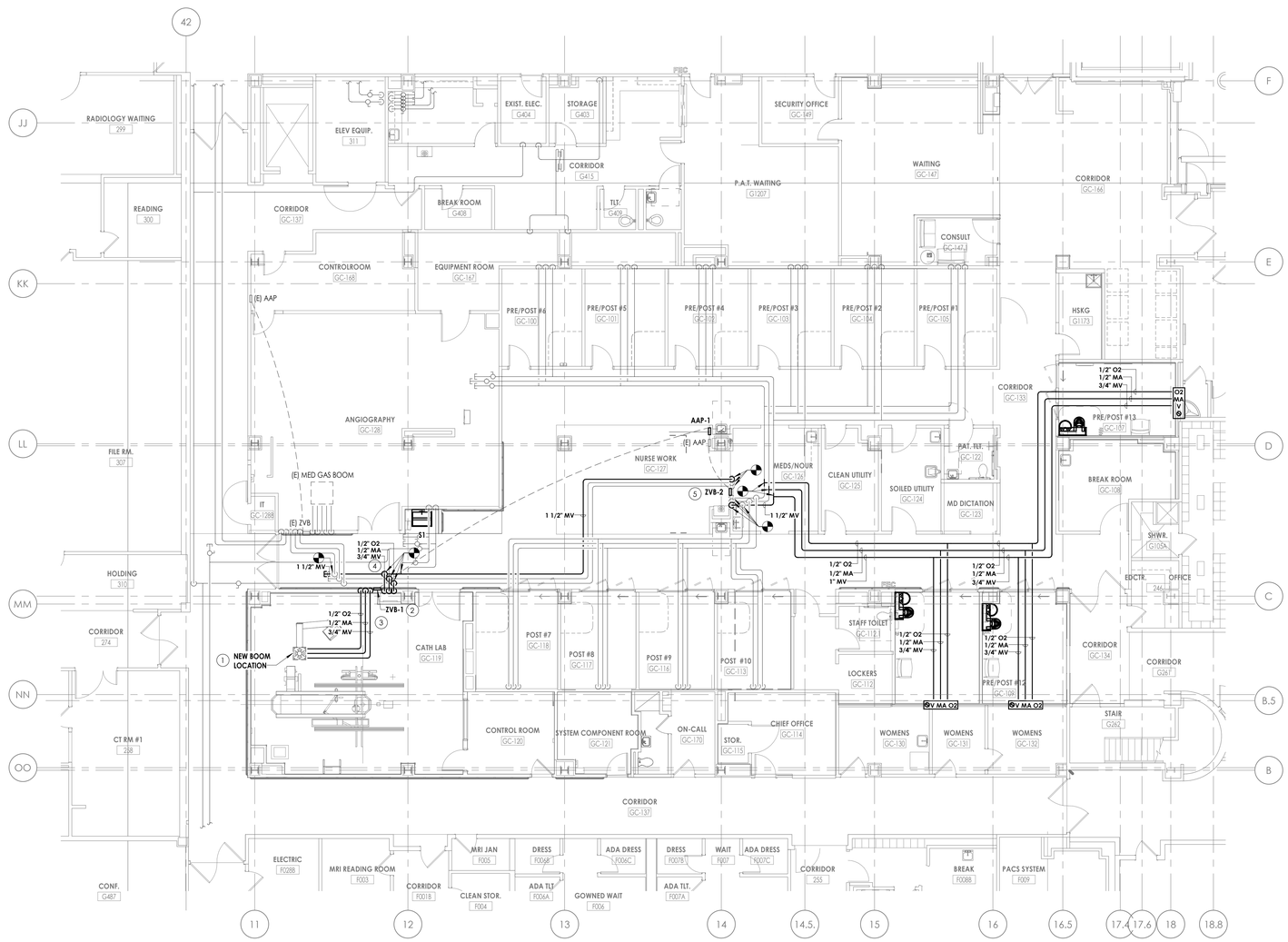
——— XX ———	PIPING
——— X ———	EXISTING PIPING
MA	MEDICAL COMPRESSED AIR
O2	OXYGEN
NO2	NITROUS OXIDE
VA	VACUUM
MV	MEDICAL VACUUM
WAGD	WASTE ANESTHESIA GAS DISPOSAL

GENERAL NOTES

A. CONTRACTOR TO VERIFY EXACT LOCATIONS OF EXISTING PIPING PRIOR TO ANY DEMOLITION AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY ISSUES FOUND.

KEY NOTES

1. PROVIDE AND ROUTE NEW O2, MA AND VAC PIPING TO POINT SHOWN ON DRAWING AT 8' ABOVE CEILING WITH CAPS FOR CONNECTION TO NEW BOOM ASSEMBLY. COORDINATE WITH GETINGE GROUP MFG. DRAWINGS AND ARCHITECTS ELEVATIONS.
2. PROVIDE NEW ZONE VALVE BOX (ZVB-1) IN WALL OF EXISTING CORRIDOR.
3. PROVIDE REMOTE MEDICAL GAS SENSORS ABOVE CEILING CAVITY. CONNECT INTO NEW AREA ALARM PANEL (AAP-1).
4. CONNECT NEW MEDICAL GAS PIPING INTO EXISTING PIPING AS SHOWN ON DRAWINGS. COORDINATE RECONNECTION WITH GENERAL CONTRACTOR AND HOSPITAL STAFF.
5. PROVIDE NEW ZONE VALVE BOX (ZVB-1) IN WALL OF EXISTING NURSE WORK GC-127. CONNECT TO EXISTING AREA ALARM PANEL AS SHOWN ON PLANS. PROVIDE VALVES FOR 3/4" O2, 3/4" MA AND 1-1/2" MV.

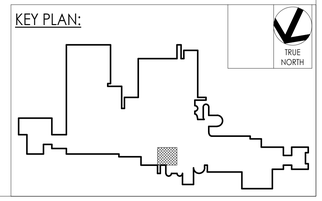


1 P400 **MED GAS PIPING NEW WORK PLAN**

1/8" = 1'-0"

TRUE NORTH

KEY PLAN:



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CATH LAB RENOVATION

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2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL SEAL 27581 ENGINEER GARY A. KNIGHT 11-14-25 CPL 18089

SHEET INFORMATION

Issued: 11/14/2025
Scale: As indicated
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: TJB
Checked By: GAK
Drawing Title: GROUND FLOOR MED GAS PIPING PLAN
Drawing Number: P400

11/13/2025 3:03:36 PM PROJECT FILES ON ACC

GENERAL SPRINKLER NOTES

1. ALL SPRINKLER SYSTEM MATERIALS AND INSTALLATION SHALL BE PER NFPA 13, INSURANCE UNDERWRITER AND LOCAL AUTHORITY HAVING JURISDICTION.

2. PROVIDE HYDRAULIC CALCULATIONS WITH A MINIMUM OF 10 PSI OR 10% SAFETY MARGIN, WHICHEVER IS GREATER.

3. LIGHT HAZARD OCCUPANCIES - PROVIDE 0.10 GPM/SQFT OVER THE MOST REMOTE 1500 SQFT, WITH 100 GPM HOSE ALLOWANCE. USING A MAXIMUM OF 225 SQFT SPACING PER HEAD. THESE AREAS INCLUDE THOSE WHERE THE COMBUSTIBILITY IS LOW AND THE QUANTITY AND/OR COMBUSTIBILITY OF CONTENTS IS LOW WITH LOW RATES OF HEAT RELEASE IN ACCORDANCE WITH NFPA 13. OCCUPANCIES THAT TYPICALLY MEET THE INTENT OF THESE DESIGN CRITERIA INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

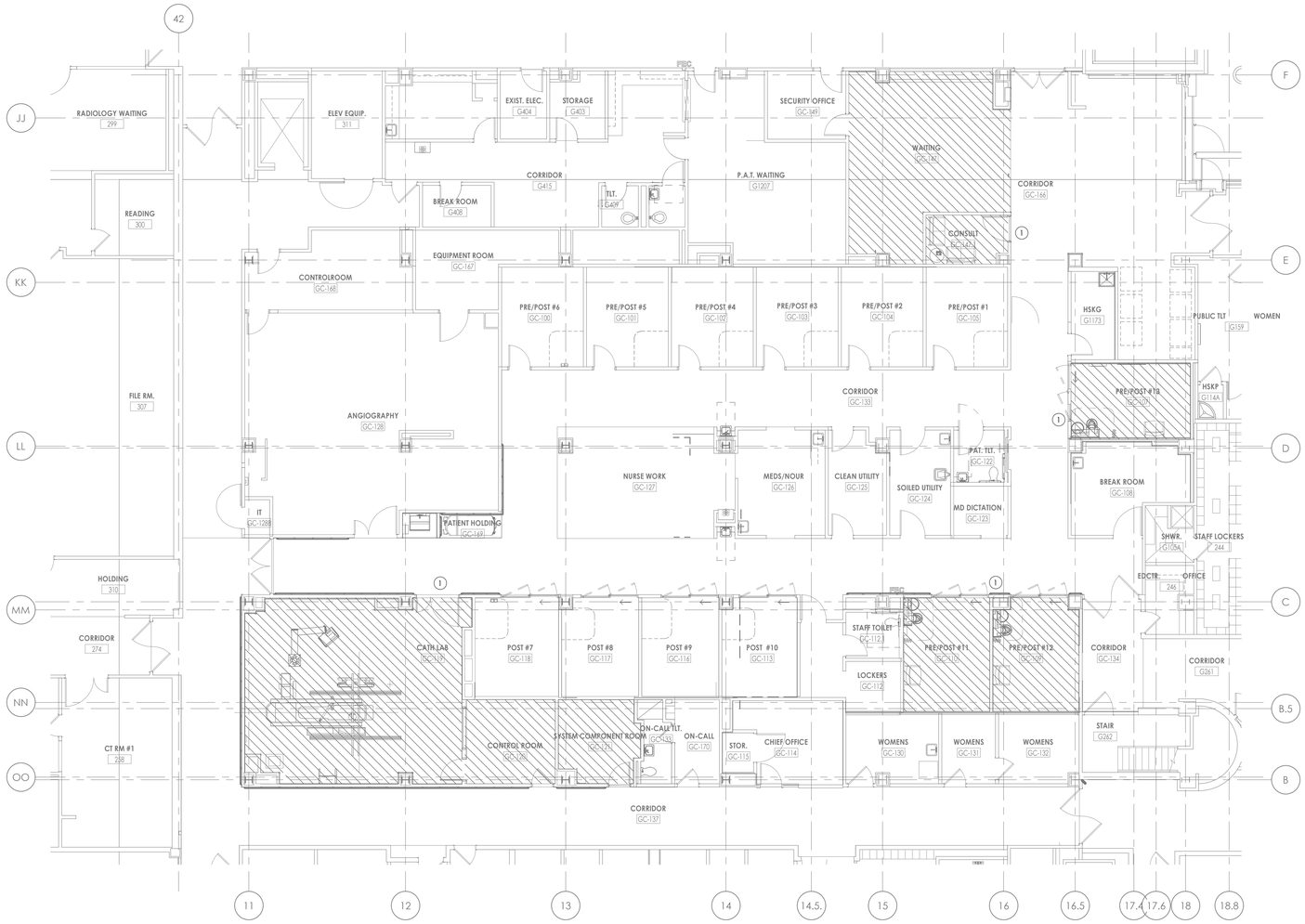
   A. WAITING ROOMS
   B. PRE/POST
   C. CATH LAB
   D. SYSTEM COMPONENT ROOM
   E. CONTROL ROOM

4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COORDINATION OF SPRINKLER LOCATIONS WITH CEILING HEIGHTS AND TYPES. LOCATE SPRINKLER HEADS THROUGHOUT ALL AREAS AS REQUIRED BY NFPA 13 AND LOCAL AUTHORITY HAVING JURISDICTION. COORDINATE SPRINKLER HEAD LOCATIONS WITH ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: LIGHTS, SPECIAL SYSTEMS, SMOKE DETECTORS, HVAC DIFFUSERS, ETC. OBTAIN ARCHITECT'S AND/OR OWNER'S APPROVAL OF ALL SPRINKLER HEAD LOCATIONS.

5. ALL SPRINKLER PIPE ROUTING AND ELEVATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: CEILINGS, STRUCTURAL STEEL AND SUPPORTS, HVAC DUCT WORK, CABLE TRAYS, CONDUIT, SPECIAL SYSTEMS, CONTROLS, ETC.

KEY NOTES

1. RECONFIGURE SPRINKLER HEADS AS REQUIRED FOR NEW FLOOR PLAN.



TRUE NORTH

1 FP200 **FIRE PROTECTION NEW WORK PLAN**
1/8" = 1'-0"

CONTRACTOR NOTE:

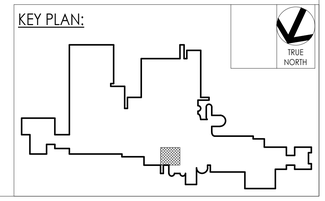
CONTRACTOR SHALL SUBMIT ALL FIRE PROTECTION SYSTEMS SEPARATELY TO THE FIRE MARSHAL'S OFFICE FOR REVIEW AND PERMITTING. THIS INCLUDES THE WET SPRINKLER SYSTEMS ALONG WITH THE FIRE ALARM SYSTEM.

CLASSIFICATION:

LIGHT HAZARD

NOT IN SCOPE

KEY PLAN:



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2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NORTH CAROLINA

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL SEAL 27581 ENGINEER GARY A. KIRBY 11-14-25 18089

SHEET INFORMATION

Issued
11/14/2025

Scale
1/8" = 1'-0"

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
TJB

Checked By
GAK

Drawing Title
FIRE FLOOR FIRE PROTECTION PLAN

Drawing Number
-
FP200

11/13/2025 3:02:39 PM PROJECT FILES ON ACC

WIRING DEVICE SYMBOL LEGEND

SYMBOL	DESCRIPTION
A-1	HOMERUN TO LIGHTING/SERVICE PANEL. HOMERUN INDICATES PANEL NAME AND CIRCUIT NUMBER OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT (1" UNDERGROUND) UNLESS NOTED OTHERWISE. HOMERUNS MAY BE COMBINED INTO A COMMON RACEWAY FOR 20A SINGLE PHASE CIRCUITS. PROVIDE DEDICATED NEUTRALS. MAXIMUM OF (6) CURRENT CARRYING CONDUCTORS SHALL BE PROVIDED IN RACEWAY, UNLESS NOTED OTHERWISE. PROVIDE #10 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 100 FEET. PROVIDE #8 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 150 FEET. INCREASE CONDUIT SIZE AS REQUIRED. VERIFY EXACT CIRCUIT LENGTH AND SIZE OF CONDUCTORS TO PROVIDE ACCEPTABLE VOLTAGE DROP PER NEC. COMPLY WITH NEC FOR CONDUCTOR DERATING AND CONDUIT FILL.
	CONDUIT STUB
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR
E101	ELECTRICAL CONNECTION TO EQUIPMENT ITEM 'E101' (LETTER DESIGNATION AS APPLICABLE) - SEE CORRESPONDING EQUIPMENT CONNECTION SCHEDULE
	DUPLEX RECEPTACLE AT 18" AFF, UNO. NEMA 5-20R.
	SAME AS ABOVE BUT GENERATOR/ALTERNATE POWER SOURCE.
	QUADRUPLEX RECEPTACLE AT 18" AFF, UNO. NEMA 5-20R.
	SAME AS ABOVE BUT GENERATOR/ALTERNATE POWER SOURCE.
	DUPLEX RECEPTACLE - CEILING MOUNTED. NEMA 5-20R.
	DUPLEX RECEPTACLE - FLOOR MOUNTED. NEMA 5-20R.
	SINGLE RECEPTACLE AT 18" AFF, UNO. NEMA 5-20R. FOR RECEPTACLES ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: AC - MOUNTED 8" ABOVE COUNTER CR - CORD REEL GFI - GROUND FAULT CIRCUIT INTERRUPTER DEVICE TR - TAMPER RESISTANT USB - DEVICE WITH TYPE 'A' & TYPE 'C' USB PORTS WP - UL LISTED WEATHER-RESISTANT (WR) DEVICE WITH WEATHERPROOF WHILE-IN-USE COVER (xx") - MOUNTING HEIGHT OF RECEPTACLE AFF
	SPECIAL PURPOSE RECEPTACLE - HEIGHT AND TYPE AS NOTED ON DRAWINGS
GFI	PROVIDE BLANK-FACE GFI DEVICE ABOVE COUNTER TO FEED-THROUGH AND PROTECT UNDERCOUNTER OR OBSTRUCTED RECEPTACLE. LABEL GFI DEVICE WITH EQUIPMENT NAME (E.G., "REFRIG"). LABEL RECEPTACLE AS GFI PROTECTED BY REMOTE DEVICE ABOVE COUNTER. GFI IS REQUIRED TO BE READILY ACCESSIBLE PER NEC.
	SURFACE RACEWAY
J J	JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	VERTICAL SERVICE POLE
	COMBINATION IN FLOOR POWER / DATA / A/V DEVICE.
	PUSHBUTTON
M	MOTOR. SEE DRAWINGS FOR DESCRIPTION
30A/3P/20/1	SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING, "3P" INDICATES NUMBER OF POLES, "20" INDICATES FUSE SIZE, "1" INDICATES NEMA ENCLOSURE RATING (1, 3R, 4X, ETC). HEAVY DUTY SAFETY SWITCH UNLESS NOTED OTHERWISE. "NF" INDICATES NON-FUSED.
	COMBINATION MOTOR STARTER
	MOTOR STARTER M = MANUAL MOTOR STARTER
B	DOOR BELL

FIRE ALARM SYMBOL LEGEND

UNLESS NOTED OTHERWISE ON DRAWINGS, FOR EACH DEVICE BELOW, PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG MUDRING AND 3/4" CONDUIT WITH PULL CORD TO ABOVE NEAREST ACCESSIBLE CEILING IN CORRIDOR. PROVIDE NYLON BUSHING ON CONDUIT END.

SYMBOL	DESCRIPTION
FAAP	FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER, UNO
FACP	FIRE ALARM CONTROL UNIT; "D" SUBSCRIPT INDICATES DEDICATED UNIT
FATC	FIRE ALARM TERMINAL CABINET - WALL MOUNTED AT 72" AFF TO TOP, UNO
ARCM	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM MASTER UNIT
ARCR	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM REMOTE UNIT
NAC n	NOTIFICATION CIRCUIT POWER BOOSTER, EXTENDER PANEL. "n" = UNIT NUMBER
PRE	PRE-ACTION SYSTEM / CONTROL UNIT
SD	SMOKE DAMPER CONNECTION
ES	ELEVATOR SHUTDOWN CONNECTION
ER	ELEVATOR RECALL CONNECTION
FH	ELEVATOR FIREMAN'S HAT LIGHT CONNECTION
VM	ELEVATOR SHUNT TRIP VOLTAGE MONITOR CONNECTION
AIM	ADDRESSABLE INPUT MONITOR MODULE
AOM	ADDRESSABLE OUTPUT RELAY MODULE
IM	ISOLATION MODULE
CO	CO DETECTOR
H	HEAT DETECTOR.
WF	WATER FLOW DETECTOR / SWITCH
RL	NON-ADDRESSABLE OUTPUT RELAY
SS	SURGE SUPPRESSOR
VS	VALVE SUPERVISORY SWITCH
F	FIRE ALARM PULL STATION AT 44" AFF. UNO
S	FIRE ALARM SMOKE DETECTOR / SENSOR
S R	RELAY BASE
SS	SMOKE ALARM. SINGLE STATION
S	DUCT SMOKE DETECTOR
F SS	FIRE ALARM SYSTEM BELL - SINGLE STROKE
F G	GONG
cd	COMBINATION HORN / VISIBLE; cd = CANDELA RATING
cd W	COMBINATION SPEAKER / VISIBLE; W = WATTAGE, cd = CANDELA RATING
F HL	HORN ONLY
IR	CEILING MOUNT INDICATOR
RTS	REMOTE ALARM INDICATING AND TEST SWITCH
S W	SPEAKER ONLY, WALL MOUNT; W = WATTAGE
cd	VISIBLE ONLY (STROBE), CEILING MOUNT; cd = CANDELA RATING
cd	VISIBLE ONLY (STROBE), WALL MOUNT; cd = CANDELA RATING
DH	DOOR HOLDER
	SUBSCRIPT DEFINITIONS: C - CEILING MOUNTED WP - WEATHERPROOF WG - WIRE GUARD

LIGHTING & CONTROL SYMBOL LEGEND

SYMBOL	DESCRIPTION
S x	20A SWITCH AT 44" CL AFF, UNO
D x	WALL DIMMER FOR SWITCH OR DIMMER ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: a,b - SWITCHING SCHEME m - MOTOR RATED WITH LOCKOUT BRACKET P - PILOT LIGHT 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH o - OCCUPANCY SENSOR v - VACANCY SENSOR
OS	OCCUPANCY SENSOR - CEILING MOUNTED
PC	PHOTOCELL
DS	DAYLIGHT SENSOR
	INTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	EXTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	EMERGENCY LIGHTING UNIT, WITH BATTERY. REFER TO LIGHTING FIXTURE SCHEDULE
	EXIT SIGN. WHERE USED, ARROW INDICATES CHEVRON DIRECTION.
	CEILING FAN
NL NL	LIGHT FIXTURE, HALF SHADING INDICATES INTEGRAL EMERGENCY BATTERY. "NL" INDICATES 24/7 OPERATION (UNSWITCHED).
	LIGHTING FIXTURE AS SCHEDULED; NORMAL POWER BRANCH
	LIGHTING FIXTURE AS SCHEDULED; ALTERNATE POWER BRANCH (NEC ARTICLE 701/702)
	LIGHTING FIXTURE AS SCHEDULED; LIFE SAFETY POWER BRANCH (NEC ARTICLE 700 EMERGENCY)

TECHNOLOGY SYMBOL LEGEND

UNLESS NOTED OTHERWISE ON DRAWINGS, FOR EACH DEVICE BELOW, PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG MUDRING AND 1" CONDUIT WITH PULL CORD TO ABOVE NEAREST ACCESSIBLE CEILING IN CORRIDOR. PROVIDE NYLON BUSHING ON CONDUIT END.

SYMBOL	DESCRIPTION
	VOICE / DATA ROUGH-IN BOX, AT 18" AFF UNO.
	VOICE / DATA ROUGH-IN BOX, FLOOR-MOUNTED.
WAP	WIRELESS ACCESS POINT. CEILING MOUNTED UNLESS NOTED OTHERWISE ON PLAN. COORDINATE PROVISIONS AND REQUIREMENTS WITH OWNER.
TV	TELEVISION OUTLET. SINGLE GANG BOX WITH SINGLE GANG PLASTER RING. PROVIDE WITH ADJACENT DUPLEX RECEPTACLE.
AC	ACCESS CONTROL (NCBC 1010.1.9) DOOR PREPARATION; REFER TO DETAIL SHEET E800
SC	SECURITY CAMERA. COORDINATE REQUIREMENTS WITH OWNER.

NURSE CALL SYMBOL LEGEND

UNLESS NOTED OTHERWISE ON DRAWINGS, FOR EACH NURSE CALL DEVICE BELOW, PROVIDE BOX AND CONDUIT INDICATED IN SCHEDULE ON THIS SHEET. PROVIDE WITH PULL CORD TO ABOVE NEAREST ACCESSIBLE CEILING IN CORRIDOR. PROVIDE NYLON BUSHING ON CONDUIT END.

SYMBOL	DESCRIPTION
NPS1	NURSE CALL SINGLE PATIENT STATION, INCLUDES STAFF ASSIST & CODE BLUE
N	NURSE CALL PULL CORD STATION, WITHOUT AUDIO
NL	NURSE CALL CORRIDOR DOME LIGHT
NZL	NURSE CALL CORRIDOR ZONE LIGHT
NSC	NURSE CALL STAFF ASSIST AND CODE BLUE STATION

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINSHED GRADE
ACH	ABOVE COUNTER HEIGHT
AL	ALUMINUM
BKR	BREAKER
CKT	CIRCUIT
CL	CENTERLINE
CU	COPPER
DWG	DRAWING
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
FLA	FULL LOAD AMPS
FU	FUSE
FWE	FURNISHED WITH EQUIPMENT
GC	GENERAL CONTRACTOR
GFI/GFCI	GROUND FAULT INTERRUPTER DEVICE
LRA	LOCKED ROTOR AMPS
LTG, L	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT CIRCUIT PROTECTION
MSB	MAIN SWITCHBOARD
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PH	PHASE
PNL	PANEL
RCPT	RECEPTACLE
REQD	REQUIRED
RTU	ROOFTOP UNIT
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
UGND	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

NURSE CALL BACK BOX SCHEDULE (RAULAND RESPONDER 5)

DEVICE	LEGEND SYMBOL	BACK BOX	MOUNTING	NOTES
SINGLE PATIENT STATION	NPS1	3-GANG 3-1/2" DEEP NON-GANGABLE MASONRY BACKBOX STEEL CITY 3-MB OR RACO 697	MOUNTED IN HEADWALL, OR FLUSH MOUNT 46" AFF UNO	MINIMUM USABLE BOX DEPTH INCLUDING PLASTER RING SHALL BE NO LESS THAN 2-3/4"
STAFF ASSIST/CODE BLUE STATION	NSC	1-GANG 3-1/2" DEEP BACKBOX RACO 561 OR STEEL CITY 58371-3/4R	MOUNTED IN HEADWALL, OR FLUSH MOUNT 46" AFF UNO	-
CORRIDOR DOME LIGHT OR ZONE LIGHT	NL, NZL	WALL MOUNT: 4-11/16" SQ 3-1/2" DEEP BACKBOX WITH 1-GANG 1" PLASTER RING, STEEL CITY 72171-1&1/4 WITH 72-C-15 RING CEILING TILE MOUNT: CADDY 512HDEEP	FLUSH MOUNT AS INSTRUCTED BY OWNER, TYPICALLY CENTERED 6" ABOVE DOOR, HOWEVER LOCATION MUST BE VIEWABLE ALONG PASSAGE	-

NOTES:

1. ALL BACK BOXES SHALL BE METAL AND PROVIDED BY THE ELECTRICAL CONTRACTOR.

2. THE BACK BOXES SPECIFIED HEREIN ARE TO ESTABLISH THE TYPE AND MINIMUM DIMENSIONS. EQUIVALENT BACK BOXES MAY BE USED IN ORDER TO ACCOMMODATE DIFFERENT MOUNTING TYPES, ETC. USE ONLY NON-GANGABLE BACK BOXES. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY RESPONDER 5 DEVICES FOR BACK BOX FIT PRIOR TO ROUGH-IN. COORDINATE WITH THE NURSE CALL VENDOR TO OBTAIN SPEC SHEETS FOR EACH DEVICE ON THE PROJECT.

3. ALL RESPONDER 5 CORRIDOR LIGHTS AND STATIONS MUST BE PROPERLY GROUNDED. PROVIDE SEPARATE 14 AWG GROUNDING CONDUCTOR BETWEEN DEVICE AND BUILDING GROUND WHERE DEVICE MOUNTING BOX DOES NOT PROVIDE ADEQUATE CONNECTION TO BUILDING GROUND. SPECIAL CARE SHOULD BE TAKEN WITH WOOD FRAME CONSTRUCTION TO ENSURE THAT ALL RESPONDER 5 FIELD DEVICES ARE GROUNDED.

4. EACH RESPONDER 5 DEVICE IS EQUIPPED WITH A GROUNDING TAB THAT GROUNDS THE STATION TO THE BACK BOX WHEN INSTALLED, AND AN OPTIONAL GROUND TERMINAL IS PROVIDED ON THE REAR OF THE DEVICE. IN CASES WHERE THE TAB DOES NOT CONTACT THE BACK BOX, SUCH AS WITH THE USE OF PLASTIC ADAPTER PLATES, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SEPARATE GROUNDING TAIL BETWEEN THE GROUND TERMINAL AND THE BACK BOX.

5. NOT ALL DEVICES INDICATED ON THIS SCHEDULE MAY BE USED ON THIS PROJECT. REFER TO PLANS AND COORDINATE WITH NURSE CALL VENDOR FOR REQUIREMENTS.

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL #	VOLTS	LAMP* OR DRIVER**				MOUNTING	REMARKS
					QTY*	WATTS	LUMENS**	TYPE		
B23	2'x2' RECESSED LED VOLUMETRIC FIXTURE, RIBBED REFLECTOR, RIBBED FROSTED ACRYLIC LENS, STEEL HOUSING, GRID MOUNT, 1% MINIMUM 0-10V DIMMING	METALUX (OR EQUAL BY LITHONIA OR COLUMBIA OR APPROVED EQUAL)	22CZ2-32-UNV-L840-HCD	120/277	-	24	3200	4000K LED	RECESSED-GRID	1
B24	SAME AS TYPE 'B23' EXCEPT LUMEN OUTPUT	METALUX (OR EQUAL BY LITHONIA OR COLUMBIA OR APPROVED EQUAL)	22CZ2-44-UNV-L840-HCD	120/277	-	33	4400	4000K LED	RECESSED-GRID	1
B47	2'x4' RECESSED LED VOLUMETRIC FIXTURE, RIBBED REFLECTOR, RIBBED FROSTED ACRYLIC LENS, STEEL HOUSING, GRID MOUNT, 1% MINIMUM 0-10V DIMMING, HIGH EFFICACY OPTION	METALUX (OR EQUAL BY LITHONIA OR COLUMBIA OR APPROVED EQUAL)	24CZ2-70-HE-UNV-L840-HCD	120/277	-	50	7000	4000K LED	RECESSED-GRID	1
C61	6" LED OPEN DOWNLIGHT, CLEAR SEMI-SPECULAR REFLECTOR, SELF-FLANGED, 80CRI, WIDE DISTRIBUTION, 1% MINIMUM 0-10V DIMMING	GOTHAM (OR EQUAL BY PORTFOLIO, HE WILLIAMS, PRESCOLITE OR APPROVED EQUAL)	EVO6-35-10-AR-LSS-WD-MVOLT-EZ1	120/277	-	10	1000	3500K LED	RECESSED	1
C62	SAME AS TYPE 'C61' EXCEPT LUMEN OUTPUT	GOTHAM (OR EQUAL BY PORTFOLIO, HE WILLIAMS, PRESCOLITE OR APPROVED EQUAL)	EVO6-35-20-AR-LSS-WD-MVOLT-EZ1	120/277	-	20	2000	3500K LED	RECESSED	1
D61	6" LED SEALED OPERATING ROOM DOWNLIGHT, STEEL TRIM RING PAINTED ANTI-MICROBIAL WHITE, CLEAR ACRYLIC LENS WITH RFI GRID, 1% MINIMUM 0-10V DIMMING	FAIL-SAFE (OR EQUAL BY KIRLIN, KENALL OR APPROVED EQUAL)	FLD6CX/OR-10-D010-FEU6C/OR-1025-90-35-F6LCX/OR-M-1-AMF-BTR89BI	120/277	-	11	1000	3500K LED	RECESSED	1
D63	SAME AS TYPE 'D61' EXCEPT LUMEN OUTPUT	FAIL-SAFE (OR EQUAL BY KIRLIN, KENALL OR APPROVED EQUAL)	FLD6CX/OR-30-D010-FEU6C/OR-3040-90-35-F6LCX/OR-M-1-AMF-BTR89BI	120/277	-	28	3000	3500K LED	RECESSED	1
O22	2'x2' SURGICAL SUITE FIXTURE, WHITE LED, 1% MINIMUM 0-10V DIMMING, 20 GA CRS WHITE ANTIMICROBIAL DOOR, 24 GA CRS HOUSING, SYMMETRICAL OPTICS, 20KA SURGE PROTECTION	KENALL (OR EQUAL BY FAIL-SAFE)	M4SEDI-22-70L-40K8-DIM1-277-2F-4H-SYM-20KV	277	-	84	12000	4000K LED	RECESSED-GRID	1
O22E	SAME AS TYPE 'O22' EXCEPT WITH 10W INTEGRAL EMERGENCY BATTERY PACK. UL924 LISTED.	KENALL (OR EQUAL BY FAIL-SAFE)	M4SEDI-22-70L-40K8-DIM1-277-2F-4H-SYM-20KV-LEL	277	-	84	12000	4000K LED	RECESSED-GRID	1
WL	LED "XRAY-IN-USE" WARNING LIGHT, WHITE HOUSING, SINGLE-FACE, GREEN LETTERS, UL924 LISTED, THERMOPLASTIC	LITHONIA (OR EQUAL BY SURE-LITES, SIGNTEX, OR DUAL-LITE OR APPROVED EQUAL)	LQM-P-W-3-G-120/277-SW16	120/277	-	3	-	LED	SURFACE 6" ABOVE DOOR	

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

A. PROVIDE DRIVERS AS REQUIRED FOR FIXTURES IN AREAS WHERE 1% MINIMUM 0-10V DIMMING IS INDICATED.

B. PROVIDE WITH PROPER MOUNTING HARDWARE FOR CEILING TYPE INDICATED ON PLANS.

C. ALL LED FIXTURES SHALL HAVE INTEGRAL SERVICEABLE SURGE PROTECTION DEVICE.

D. FINISHES SHALL BE CONFIRMED BY ARCHITECT OR OWNER PRIOR TO ORDERING.

E. LED DRIVERS SHALL CONFORM TO IEEE P1789 STANDARDS. ALTERNATIVELY, MANUFACTURERS MUST DEMONSTRATE CONFORMANCE WITH PRODUCT LITERATURE AND TESTING WHICH DEMONSTRATES THIS PERFORMANCE. SYSTEMS THAT DO NOT MEET IEEE P1789 WILL NOT BE CONSIDERED.

F. LED DRIVERS SHALL BE MULTI-VOLT. IF MULTI-VOLT DRIVERS ARE NOT AVAILABLE, THEN REQUIRED VOLTAGE SHALL BE VERIFIED WITH ENGINEER PRIOR TO ORDERING.

LIGHTING FIXTURE SCHEDULE REMARKS:

1. PROVIDE COMPATIBLE DIMMER FOR FIXTURE WHERE INDICATED ON LIGHTING PLANS.

ELECTRICAL SHEET LIST

SHEET NUMBER	SHEET NAME
E000	ELECTRICAL LEGEND AND SCHEDULES
E001	ELECTRICAL SPECIFICATIONS
E002	ELECTRICAL SINGLE-LINE DIAGRAM - NORMAL POWER
E003	ELECTRICAL SINGLE-LINE DIAGRAM - EMERGENCY POWER
E004	ELECTRICAL DIAGRAMS
E100	ELECTRICAL DEMOLITION PLAN - GROUND FLOOR
E100A	ENLARGED ELECTRICAL DEMOLITION PLANS
E200	ELECTRICAL POWER PLAN - GROUND FLOOR
E200A	ENLARGED ELECTRICAL POWER PLAN
E201	ELECTRICAL PLAN - ROOF
E300	ELECTRICAL LIGHTING PLAN - GROUND FLOOR
E300A	ENLARGED ELECTRICAL LIGHTING PLAN
E800	ELECTRICAL DETAILS
E900	ELECTRICAL PANEL SCHEDULES
E901	ELECTRICAL PANEL SCHEDULES

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PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL SEAL 029811 ENGINEER SHANNON L. SMITH
11-14-2025

SHEET INFORMATION

Issued: 11/14/2025
Scale: AS INDICATED
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: RHV
Checked By: SLE
Drawing Title: ELECTRICAL LEGEND AND SCHEDULES
Drawing Number: E000

11/14/2025 10:00:30 AM PROJECT FILES ON ACC

ELECTRICAL SPECIFICATIONS

GENERAL:

ALL DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT APPLY TO THIS AND ALL SPECIFICATION SECTIONS.

THE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), THE 2018 NORTH CAROLINA BUILDING CODE, NFPA 99-2012, NFPA 101-2012, 2022 FGI GUIDELINES, NC DHSR REQUIREMENTS, AND WITH ALL OTHER APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.

CONTRACTOR IS RESPONSIBLE TO REVIEW AND UNDERSTAND ALL DRAWINGS AND ALL WORK OF ALL TRADES TO ENSURE A COMPLETE AND THOROUGH PROJECT. CONTRACTOR SHALL COOPERATE AND COORDINATE ALL PHASES OF WORK WITH OTHER DISCIPLINES AND GENERAL CONTRACTOR.

CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS, VERIFY LOCATIONS, CONDUIT ROUTINGS, ETC. TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT BEFORE SUBMITTING A BID. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE ELECTRICAL CONTRACTOR IS RESPONSIBLE ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE THE BID DATE.

CONTRACTOR IS RESPONSIBLE TO PROVIDE POWER FOR ALL TRADES THROUGHOUT ALL PHASES OF CONSTRUCTION.

PROVIDE ALL MATERIALS, EQUIPMENT, SERVICES, AND LABOR FOR A COMPLETE OPERABLE ELECTRICAL INSTALLATION AS INDICATED ON THE DRAWINGS. ALL MATERIAL SHALL BE NEW AND BEAR THE UNDERWRITERS LABORATORIES, INC. (UL) LABEL WHERE AVAILABLE. INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS NOR MENTIONED IN THE SPECIFICATIONS THAT CAN LEGITIMATELY AND REASONABLY BE INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM, SHALL BE FURNISHED AND INSTALLED AS THOUGH ITEMIZED HERE IN EVERY DETAIL.

SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR ARCHITECT/ENGINEER REVIEW AND APPROVAL FOR THE FOLLOWING ITEMS:

1. WIRING DEVICES
2. LIGHTING FIXTURES
3. OCCUPANCY SENSORS
4. DIMMERS
5. PANELBOARDS
6. ISOLATED POWER PANELS
7. ENCLOSED CIRCUIT BREAKERS
8. CIRCUIT BREAKERS ADDED TO EXISTING PANELS
9. LIGHTING CONTROL RELAYS
10. NURSE CALL SHOP DRAWINGS
11. FIRE ALARM SHOP DRAWINGS
12. FIRE ALARM SYSTEM RECORD OF COMPLETION
13. NFPA 99 TEST REPORTS
14. UPS SYSTEM
15. CABLE MANAGEMENT TRAY
16. FLOOR PEDESTALS
17. EMERGENCY STOP PUSHBUTTON

ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL-LISTED BY A STATE APPROVED THIRD PARTY TESTING AGENCY.

ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH RECOGNIZED STANDARDS OF WORKMANSHIP. ALL WORK SHALL BE INSTALLED IN A NEAT AND ORDERLY MANNER.

MULTIPLE ITEMS SUCH AS PANELBOARDS, CIRCUIT BREAKERS, LIGHTING FIXTURES, WIRING DEVICES, RACEWAYS, ETC. SHALL BE FROM THE SAME MANUFACTURER. ALL EQUIPMENT SUPPLIED SHALL BE THE STANDARD EQUIPMENT OF THE MANUFACTURER.

ALL WORK SHALL BE LABELED WITH PERMANENT TYPEWRITTEN OR ENGRAVED LABEL. HANDWRITING IS NOT ACCEPTABLE. COLORS OF ALL LABELS SHALL BE COORDINATED WITH THE OWNER. LABEL WIRING DEVICES, PANELBOARDS, AND OTHER EQUIPMENT PER LABELING DETAILS. LABEL SPARE CONDUITS AND JUNCTION BOXES WITH PANEL/CIRCUIT NUMBER. LABEL JUNCTION BOXES WITH PANEL/CIRCUIT NUMBER. PROVIDE UPDATED TYPEWRITTEN DIRECTORY IN ALL AFFECTED PANELBOARDS INDICATING LOADS SERVED BY EACH CIRCUIT. REFER TO LABELING DETAILS.

EXISTING CONDITIONS, EQUIPMENT, DEVICES, AND CIRCUITING AS SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR NON-INVASIVE FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, QUANTITIES, AND EXISTING CIRCUITING.

GROUNDING:

FURNISH, INSTALL, AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.

ALL METAL RACEWAYS, INCLUDING CONDUIT, ENCLOSURES, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.

PROVIDE A GREEN INSULATED WIRE EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS PER NEC.

GROUNDING CONDUCTORS SHALL BE COPPER. USE EXOTHERMIC WELDED CONNECTIONS TO STRUCTURAL STEEL AND FOR UNDERGROUND CONNECTIONS. USE BOLTED PRESSURE CLAMPS FOR ALL OTHER CONNECTIONS.

MAKE ALL JOINTS AND CONNECTIONS OF THE CONDUIT SYSTEM TIGHT TO MAINTAIN CONTINUITY OF MECHANICAL AND ELECTRICAL GROUND THROUGHOUT ENTIRE SYSTEM.

ALL BRANCH CIRCUIT WIRING SERVING PATIENT CARE AREAS SHALL INCLUDE A REDUNDANT GROUND PATH AND A SEPARATE EQUIPMENT GROUNDING CONDUCTOR PER NEC 517.13.(A) & (B). REDUNDANT GROUND PATH AND EQUIPMENT GROUND MUST EXTEND FROM THE PANELBOARD TO THE DEVICES/EQUIPMENT.

IN THE PATIENT CARE AREAS, PROVIDE TESTING OF THE ELECTRICAL SYSTEM FOR GROUNDING CIRCUIT INTEGRITY, VOLTAGE AND IMPEDANCE MEASUREMENTS, AND RECEPTACLE TESTING PER NFPA 99-2015 SECTION 6.3.3.

COORDINATION:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE SEQUENCE OF WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY VOLTAGE OF MECHANICAL EQUIPMENT AND FIXTURE DRIVERS / BALLASTS, PRIOR TO COMMENCING ANY WORK.

NOTIFY ENGINEER IMMEDIATELY OF POSSIBLE CONFLICTS WITH STRUCTURE, MECHANICAL, SITE, OR OTHER FEATURES. WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS AND ARRANGEMENT OF INDICATED EQUIPMENT, CONDUIT, OUTLETS, OR WIRING, CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT COST TO OWNER.

IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY, PRIOR TO ANY INDIVIDUAL CIRCUIT'S INSTALLATION, TO VERIFY THAT THE CIRCUIT WITH DEVICES AS DRAWN IS ADEQUATE FOR THE EQUIPMENT TO BE INSTALLED. IF ANY CONFLICT IN VOLTAGE, PHASE OR LOAD IS ENCOUNTERED WHICH WOULD ALTER THE CIRCUIT SIZE, THIS CONTRACTOR SHALL NOTIFY THE ENGINEER OR OWNER IMMEDIATELY. FAILURE TO DO SO SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT CIRCUIT CHANGE DIRECTLY UPON THE CONTRACTOR.

REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTION OF PHASING FOR THIS PROJECT. COORDINATE THE INSTALLATION OF THE ELECTRICAL WORK TO COINCIDE WITH THE DESCRIPTION OF PHASING.

REFER TO THE ARCHITECTURAL DRAWINGS FOR GENERAL LIMITS OF CONSTRUCTION. ELECTRICAL WORK WILL BE REQUIRED OUTSIDE THESE NOTED LIMITS FOR RUNNING OF CONDUITS AND POWER SOURCES AS WELL AS COORDINATED WORK WITH HVAC AND PLUMBING TRADES. FOR AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SUPPORT OF EXISTING LIGHTING AND CONDUITS IS NOT REQUIRED TO BE BROUGHT UP TO THESE SPECIFICATIONS UNLESS THE EXISTING LIGHTING OR CONDUITS HAVE BEEN AFFRIED BY THIS WORK. THIS INCLUDES SEISMIC SUPPORTING OF ELECTRICAL EQUIPMENT.

CIRCUIT BREAKERS ADDED TO EXISTING PANELS SHALL MATCH EXISTING BREAKERS TYPE, MANUFACTURER AND AIC RATING. UPDATE DIRECTORIES IN EXISTING PANELS TO REFLECT CHANGES BY THIS RENOVATION.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS WITH ALL OTHER TRADES CONCERNED TO ENSURE PROPER INSTALLATION OF ALL SYSTEMS. CONTRACTOR SHALL COORDINATE SIZING OF MATERIALS AND EQUIPMENT SO ALL SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED REQUIREMENTS.

CONSTRUCTION SEQUENCE NOTES:

THE OWNER WILL MAINTAIN AND OPERATE EXISTING FACILITY AT CURRENT LEVEL UP TO AND UNTIL THAT TIME AT WHICH THE CONTRACTOR REQUIRES ACCESS FOR DEMOLITION OR RENOVATION PURPOSES.

COORDINATE ALL CONSTRUCTION WITH ALL OTHER TRADES AS REQUIRED.

THE OWNER WILL PAY ALL NECESSARY UTILITY CHARGES RELATED TO THE OPERATION OF THE EXISTING FACILITY AND THOSE NEWLY-CONSTRUCTED FACILITIES DEEMED OPERATIONAL BY THE ENGINEER. THESE SHALL INCLUDE BUT NOT BE LIMITED TO ANY TEMPORARY ELECTRIC AND TELEPHONE SERVICE REQUIRED.

THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL TEMPORARY FACILITIES REQUIRED TO PERFORM HIS WORK.

THE CONTRACTOR SHALL COORDINATE ALL OPERATIONAL CHANGES WITH THE OWNER AND ENGINEER. THE CONTRACTOR SHALL TEST AND SUCCESSFULLY START-UP ALL NEW AND REUSED EQUIPMENT. WHEN AN AREA IS TURNED OVER TO THE OWNER FOR THEIR OPERATION, THE WARRANTY PERIOD BEGINS FOR THAT AREA.

DEMOLITION:

DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID AN ALLOWANCE FOR ADDITIONAL BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED, THAT MAY NEED TO BE REMOVED OR RELOCATED TO ACCOMMODATE NEW CONSTRUCTION.

MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING TO REMAIN ELECTRICAL DEVICES, FIXTURES, ETC. THAT PASS THROUGH RENOVATED SPACES BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING. EXISTING SYSTEMS INCLUDE POWER DISTRIBUTION, TELEPHONE/DATA, SECURITY, NURSE CALL, AND CABLE TV.

COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AND OWNER AS APPLICABLE.

FOR DEVICES, FIXTURES, ETC. TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD OR NEAREST JUNCTION POINT FOR CIRCUITS WITH OTHER DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.

EXISTING CIRCUITS INDICATED ARE DIAGRAMMATIC ONLY. VERIFY EXACT ROUTING OF EXISTING CONDUIT RUNS AND NUMBERS OF CONDUCTORS AND PROVIDE ADDITIONAL CONDUITS/CONDUCTORS AS NECESSARY TO ACCOMPLISH DESIGN INTENT.

ANY EXISTING ELECTRICAL DEVICES LEFT WITHOUT POWER DUE TO THIS RENOVATION SHALL BE RECONNECTED TO SAME SIZE CIRCUIT(S) AS PRESENTLY SERVED. NO ELECTRICAL DEVICES SHALL BE LEFT WITHOUT POWER.

IF OTHER AREAS OF THE FACILITY ARE SERVED THROUGH THE REMODELED AREA, THEIR CIRCUITS SHALL BE REWORKED AT A TIME COORDINATED WITH THE OWNER TO MINIMIZE ANY AREA BEING WITHOUT POWER. ALL AREAS OF THE FACILITY SHALL MAINTAIN THEIR EXISTING ELECTRICAL SERVICES, REWORKED IF NECESSARY.

PATCH AND REPAIR ALL SURFACES CONTAINING DEMOLITION. MATERIALS AND FINISHES SHALL MATCH ADJACENT SURFACES.

IN AREA OF RENOVATIONS, ANY REMAINING (EXISTING) CONDUIT, JUNCTION BOXES, FIXTURES, CABLES, ELECTRICAL DEVICES SHALL BE SUPPORTED PER THE SPECIFICATIONS. AS A RESULT, ALL ELECTRICAL WORK, EXISTING AND NEW IN THE AREA OF RENOVATION SHALL BE SUPPORTED PER THE SPECIFICATIONS OF THIS PROJECT.

CONDUCTORS IN THE RENOVATED AREA SHALL BE NEW. DO NOT REUSE EXISTING WIRING UNLESS NOTED OTHERWISE.

PROVIDE NEW BLANK COVERPLATES ON ANY UNUSED FLUSH MOUNT DEVICE BOXES UPON COMPLETION OF PROJECT.

PROPERLY DISPOSE OF ALL ITEMS BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT TO RETAIN ANY ELECTRICAL ITEMS REMOVED FROM THE REMODELED AREA AND NOT INDICATED TO BE REUSED. IF THE OWNER DOES NOT WANT THE ITEMS, CONTRACTOR SHALL REMOVE ITEMS FROM THE SITE. COORDINATE ITEMS TO BE RETAINED WITH OWNER.

FOR ALL EXISTING DEVICES INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.

WARRANTY/COMPLETION OF WORK:

CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP & MATERIALS, USUAL WEAR EXCEPTED. SHOULD ANY SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR FROM THE PROJECT DATE OF SUBSTANTIAL COMPLETION, THIS CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS & DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE TO THE OWNER.

PERTINENT CERTIFICATES, WARRANTIES, AND O&M MANUALS SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE, PRIOR TO FINAL BILLING. PROVIDE THREE (3) HARD COPY BOUND VOLUMES AND ONE (1) ELECTRONIC SET IN PDF FORMAT ON USB FLASH DRIVE.

BEFORE FINAL ACCEPTANCE BY THE OWNER WILL BE GRANTED, THE CONTRACTOR SHALL CLEAN ALL DEVICE PLATES, SERVICE FITTINGS AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT. ALL EQUIPMENT AND DEVICES SHALL BE FREE OF CORROSION, DIRT, PAINT, SPLATTER, OR DAMAGE OF ANY KIND. CONTRACTOR SHALL CLEAN, REPAIR, OR REPLACE SAME AS INSTRUCTED BY THE OWNER BEFORE FINAL PAYMENT. EVERY PART OF THE INSTALLATION SHALL BE TESTED, OPERATED, AND LEFT IN PERFECT WORKING ORDER.

AT COMPLETION OF WORK, ELECTRICAL CONTRACTOR SHALL DELIVER TO OWNER AS-BUILT DRAWINGS IN PDF FORMAT SHOWING LOCATION AND SIZE OF ALL ELECTRICAL WORK.

RACEWAY & WIRING:

CONDUIT RUNS SHOWN ARE SCHEMATIC AND DO NOT INDICATE THE NECESSARY FITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK.

ALL CONDUIT ROUTES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTE.

JUNCTION, PULL AND OUTLET BOXES SHALL BE INSTALLED SUCH THAT THE WIRING CONTAINED IN BOX MAY BE RENDERED ACCESSIBLE. WIRING SHALL BE NEATLY ARRANGED AND LACED WITH APPROVED CABLE TIES IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICE.

CONDUCTORS (EXCEPT ISOLATED POWER CIRCUITS) SHALL BE COPPER, 600 VOLTS, THHN-THWN, 75°C INSULATION, #10 AWG AND SMALLER SHALL BE SOLID. #8 AWG AND LARGER SHALL BE STRANDED. MINIMUM SIZE SHALL BE #12 AWG.

CONDUCTORS FOR ISOLATED POWER CIRCUITS SHALL BE COPPER, 600 VOLTS, XHHW-2 90°C INSULATION, STRANDED, WITH DIELECTRIC CONSTANT OF 3.5 OR LESS.

MULTI-WIRE BRANCH CIRCUITS (SHARED NEUTRALS) ARE NOT PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE. THEY ARE NEVER PERMITTED AT PATIENT BED LOCATIONS.

WHERE MULTI-WIRE BRANCH CIRCUITS ARE INDICATED OR EXISTING, PROVIDE LISTED HANDLE-TIES FOR ALL CIRCUITS SHARING A NEUTRAL. HANDLE-TIES SHALL BE CONSTRUCTED TO FORCE ALL TIED BREAKERS TO SHUT OFF TOGETHER WHEN THE HANDLE OF ANY ONE BREAKER IS MANUALLY MOVED TO THE OFF POSITION, BUT THE HANDLE-TIE SHALL NOT CAUSE COMMON TRIPPING OF ALL BREAKERS WHEN ONE EXPERIENCES AN OVERCURRENT CONDITION. RELOCATE EXISTING HOMERUNS TO ADJACENT SPACES AS REQUIRED TO COMPLY WITH THIS REQUIREMENT AND RELABEL ALL EXISTING RACEWAY AND DEVICES TO INDICATE NEW CIRCUIT NUMBERS. LABEL EACH NEUTRAL AS TO WHICH CIRCUIT IT IS ASSOCIATED WITH.

VERIFY EXACT CIRCUIT LENGTH AND SIZE OF CONDUCTORS TO PROVIDE ACCEPTABLE VOLTAGE DROP PER NEC. INCREASE CONDUIT SIZE AS REQUIRED TO ACCOMMODATE CONDUCTORS IN COMMON RACEWAY.

MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.

ALL CONDUCTORS SHALL BE IN CONDUIT UNLESS NOTED OTHERWISE. EXPOSED CONDUIT AND WHERE SUBJECT TO PHYSICAL DAMAGE SHALL BE RMC. USE FLEXIBLE METALLIC CONDUIT FOR FINAL CONNECTION TO VIBRATING EQUIPMENT; LIQUIDTIGHT IN WET LOCATIONS. USE EMT WITH COMPRESSION FITTINGS IN INTERIOR LOCATIONS NOT SUBJECT TO PHYSICAL DAMAGE. SET SCREW FITTINGS ARE NOT ALLOWED. MINIMUM CONDUIT SIZE IS 1/2" UNLESS NOTED OTHERWISE.

ALL CONDUIT AND WIRING WITHIN BUILDINGS SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. WHERE APPROVED OR NOTED, SURFACE METAL RACEWAY AND DEVICE BOXES SHALL BE USED IN-LIEU OF CONDUIT AND CONCEALED BOXES AT NO EXTRA COST TO THEOWNER.

WIRING OF LIFE SAFETY AND CRITICAL BRANCH CIRCUITS SHALL BE MECHANICALLY PROTECTED IN ACCORDANCE WITH NEC 517.31(C)(3). FLEXIBLE METAL RACEWAYS SHALL ONLY BE USED FOR LIGHTING FIXTURE WHIPS OR WHERE PART OF LISTED ASSEMBLIES AND ARE NOT PERMITTED ELSEWHERE.

ALL CONDUITS FOR LOW VOLTAGE COMMUNICATION CABLES SHALL EXTEND FROM BACK BOX TO CABLE TRAY ABOVE ACCESSIBLE CEILING IN NEAREST CORRIDOR. PROVIDE CONDUIT SLEEVES IN EXISTING STRUCTURE FOR ACCESS BACK TO CENTRAL EQUIPMENT LOCATION. COORDINATE PATH WITH INSTALLERS PRIOR TO ROUGH-IN.

CABLE MANAGEMENT TRAY SHALL BE WALL MOUNTED, 3"W x 3"D LOADING DIMENSIONS, GALVANIZED FINISH, SNAKE TRAY 501 SERIES OR APPROVED EQUAL. PROVIDE LENGTHS REQUIRED PER PLANS.

USE COLOR CODED ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES AND CABLES. COLOR CODE THE WIRING SYSTEM TO MATCH EXISTING CONDITIONS. IF NO CODING EXISTS ON PROPERTY, CODE WIRING AS FOLLOWS:

480Y/277V		208Y/120V	
PHASE A:	BROWN	PHASE A:	BLACK
PHASE B:	ORANGE	PHASE B:	RED
PHASE C:	YELLOW	PHASE C:	BLUE
NEUTRAL:	GRAY	NEUTRAL:	WHITE
GROUND:	GREEN	GROUND:	GREEN

ISOLATED POWER CIRCUITS
CONDUCTOR 1: ORANGE WITH STRIPE
CONDUCTOR 2: BROWN WITH STRIPE
CONDUCTOR 3: YELLOW WITH STRIPE
GROUND: GREEN
STRIPE SHALL BE COLOR OTHER THAN WHITE, GREEN OR GRAY

CONDUIT PENETRATIONS OF ROOF, WALLS, FLOORS, AND CEILINGS SHALL BE SEALED TO PRESERVE THE INTEGRITY OF WATERPROOFING, FIRE RATING, AND SOUNDPROOFING FOR WHICH THE ROOF, WALL, FLOOR, OR CEILING IS DESIGNED. MATERIALS AND METHODS USED SHALL COMPLY WITH STATE AND LOCAL BUILDING AND FIRE CODES. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE THAT SEALING/FIRESTOPPING IS DONE.

RACEWAY COLOR-CODING SCOPE:

FOR POWER CONDUITS, PAINT ALL FITTINGS, JUNCTION BOXES, AND PULL BOXES WITH FACILITY COLOR CODE NOTED BELOW. FIRE ALARM RACEWAY SHALL BE RED WITH FACTORY-APPLIED COLOR COATING AND LABELED AS "FIRE ALARM".

COLOR CODE:		
	NORMAL POWER	NO COLOR REQUIRED
	LIFE SAFETY BRANCH	YELLOW
	CRITICAL BRANCH	RED
	EQUIPMENT BRANCH	ORANGE

EQUIPMENT & DEVICES:

UPS SHALL BE EATON 9PXM, VOLTAGE AND POWER RATINGS AS SHOWN, WITH 8-SLOT CABINET, TWO POWER MODULES, EIGHT BATTERY MODULES WITH 16 MINUTES OF RUNTIME AT FULL 8KVA LOAD/34MINUTES AT HALF LOAD, HARDWIRED INPUT AND OUTPUT, NETWORK COMMUNICATIONS CARD, 150% OVERLOAD FOR 10 SECONDS, 300% FOR 12 CYCLES, SINE WAVE VOLTAGE WAVEFORM WITH <3% THD AT RATED LINEAR LOADS, +/-3% LOAD REGULATION, INTEGRAL ANSI C62.41 CATEGORY B SURGE SUPPRESSION, SEALED MAINTENANCE-FREE LEAD-ACID BATTERIES. PROVIDE WITH MAINTENANCE BYPASS SWITCH, MAKE-BEFORE-BREAK TYPE, IN WALL-MOUNT NEMA 1 ENCLOSURE. PROVIDE 5-YEAR ADVANCE DEPOT EXCHANGE WARRANTY (CUSTOMER CALLS FOR NEXT DAY SHIPMENT OF REPLACMENT MODULE, RETURNS DEFECTIVE MODULE AFTERWARDS). CONTACT DWAYNE FLEMING AT PQS MISSION CRITICAL, dfleming@pqsmc.com, 919-395-5390.

ISOLATED POWER PANELS SHALL BE SQUARE D SMIX ISOLATED POWER SYSTEMS, WITH PRIMARY MAIN CIRCUIT BREAKER, TRANSFORMER, 16-CIRCUIT NQ PANEL INTERIOR, ISO-GARD SERIES 6 LINE ISOLATION MONITOR (LIM). PROVIDE DUPLEX ENCLOSURE FOR SEPARATE CRITICAL AND NORMAL SYSTEMS.

PANELBOARDS SHALL HAVE COPPER BUS AND BOLT-ON MOLDED-CASE THERMAL-MAGNETIC CIRCUIT BREAKERS. AIC AND ENCLOSURE RATINGS SHALL BE RATED AS INDICATED ON PANEL SCHEDULES. ENCLOSURES SHALL HAVE ENTIRE FRONT TRIM HINGED TO BOX AND WITH PIANO-HINGED DOOR WITHIN PIANO-HINGED TRIM COVER. LOAD CENTERS ARE NOT ACCEPTABLE. ALL PANELBOARDS SHALL BE KEYED ALIKE. PROVIDE TWO (2) SPARE SETS OF KEYS.

LIGHTING FIXTURES SHALL BE AS SCHEDULED.

PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT LIGHTING FIXTURES IN THE TYPE OF WALL OR OTHER LOCATION AT THE SITE REGARDLESS OF WHAT DRAWINGS SHOW. VERIFY BY REVIEWING EXISTING CONDITIONS PRIOR TO ORDERING FIXTURES.

OCCUPANCY SENSORS SHALL BE DUAL-TECHNOLOGY TYPE (PASSIVE INFRARED AND ULTRASONIC) AND SHALL BE CONFIGURED AS DESCRIBED IN THE LEGEND. ACCEPTABLE MANUFACTURERS ARE WATTSTOPPER, LUTRON, SENSOR SWITCH, OR LEVITON.

DIMMERS SHALL BE OF THE TYPE AND MANUFACTURER COMPATIBLE WITH THE FIXTURES CONTROLLED IN EACH GANG. 0-10V, FORWARD PHASE, REVERSE PHASE ETC.), DIMMERS SHALL BE RATED 960VA MINIMUM AND SHALL BE LUTRON SKYLARK WITH SLIDER AND ON/OFF BUTTON OR EQUAL UNIT BY LEVITON, SENSOR SWITCH, OR WATTSTOPPER. DIMMER CIRCUITS SHALL EACH HAVE A DEDICATED NEUTRAL.

ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE, GRAY COLOR FOR NORMAL POWER AND RED COLOR FOR EMERGENCY POWER WITH 302/304 STAINLESS STEEL COVERPLATE AND MATCHING SCREWS, BY LEVITON, HUBBELL, PASS & SEYMOUR, OR COOPER. ALL RECEPTACLES SHALL BE HOSPITAL-GRADE. VERIFY DEVICE COLOR/FINISH AT SUBMITTAL REVIEW.

FLOOR PEDESTALS: SEE DETAIL ON SHEET E800.

WEATHERPROOF COVERS FOR WIRING DEVICES SHALL BE WHILE-IN-USE TYPE. COVERS FOR BUILDING OR WALL-MOUNTED DEVICES SHALL BE CAST ALUMINUM. RED-DOT COOKEEKEEPER OR EQUAL BY TAYMAC, COOPER, OR HUBBELL. NON-METALLIC COVERS ARE NOT ACCEPTABLE.

ALL RECEPTACLES SHALL BE INSTALLED WITH THE GROUND POLE UP UNLESS EQUIPMENT PLUG REQUIRES GROUND POLE DOWN. COORDINATE WITH EQUIPMENT.

EMERGENCY STOP BUTTON SHALL BE MAINTAINED (PUSH-PULL) LABELED "PULL TO RESET" 40 MM RED MUSHROOM-HEAD PUSHBUTTON. YELLOW FLUSH MOUNT NEMA 1 ENCLOSURE, 120VAC, 20A CONTACT RATING, (2) N.O. CONTACTS WITH FACTORY LEGEND "EMERGENCY POWER OFF", PILLA ST120 SERIES OR EQUAL BY SQUARE D, SIEMENS, OR ABB.

FIRE ALARM:

FIRE ALARM INSTALLATION SHALL COMPLY WITH NFPA 72, NFPA 101, NATIONAL ELECTRICAL CODE (NFPA 70) WITH SPECIFIC ATTENTION TO ARTICLE 760, STATE FIRE CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND ORDINANCES.

ALL FIRE ALARM DEVICES AND EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING SYSTEM AND SHALL BE THE HOSPITAL STANDARD MODELS. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT AND SHALL BE PER HOSPITAL STANDARDS AND COMPLY WITH NFPA 72 AND NEC.

ALL VISUAL NOTIFICATION DEVICES (STROBES) IN ONE VIEWING, NEW AND EXISTING, SHALL BE SYNCHRONIZED TO FLASH IN UNISON AS REQUIRED BY NFPA 72, ADA, ANSI 117.1, AND UL 1971.

PROVIDE ALL REQUIRED TESTING OF THE FIRE ALARM SYSTEM IN ACCORDANCE WITH THE "INSPECTION, TESTING, AND MAINTENANCE" CHAPTER OF NFPA 72 AND MANUFACTURER'S WRITTEN INSTRUCTIONS. FIELD TESTS SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION. CONDUCT VISUAL INSPECTION AND SYSTEM TESTING IN THE "TEST METHODS" TABLE IN THE "TESTING" SECTION OF NFPA 72. PREPARE A "FIRE ALARM SYSTEM RECORD OF COMPLETION" PER NFPA 72. FIRE ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.

FOR FIRE ALARM DEVICES THAT ARE REMOVED, PERFORM ANY PROGRAMMING CHANGES AT FIRE ALARM CONTROL PANEL TO NOTE DEVICE HAS BEEN REMOVED. RECESSED, EMPTY BACK BOX AND CONDUIT MAY BE ABANDONED IN WALL, UNLESS NOTED OTHERWISE.

FOR FIRE ALARM DEVICES ADDED TO EXISTING SYSTEMS, CONNECT TO EXISTING CIRCUITS AND PROVIDE PROGRAMMING CHANGES AT FIRE ALARM CONTROL PANEL.

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DeVita & Associates, Inc. Project: 25558-01

NC Firm License # C-0819

PROJECT INFORMATION

Project Number
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Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

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ELECTRICAL SPECIFICATIONS

Drawing Number
E001

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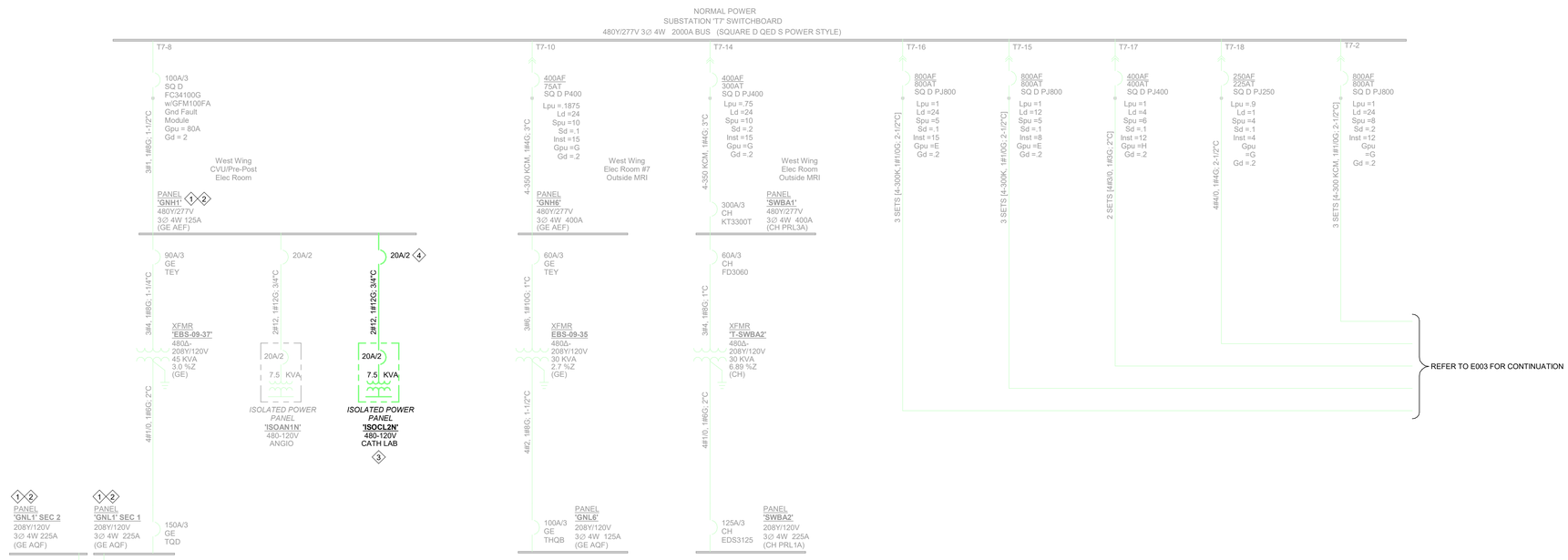

1 / E002 PARTIAL SINGLE-LINE DIAGRAM - NORMAL POWER
NOT TO SCALE

GENERAL NOTES:

A. EXISTING EQUIPMENT TO REMAIN IS SHOWN HALFTONE. DEMOLITION WORK IS SHOWN WITH HATCHING. NEW WORK IS SHOWN BOLD.

SINGLE-LINE DIAGRAM NOTES: 0

1. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. REFER TO PLANS AND PANEL SCHEDULES.
2. PROVIDE UPDATED TYPEWRITTEN PANEL DIRECTORY IN THIS PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. TRACE OUT AND VERIFY ALL AFFECTED EXISTING CIRCUITS. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICATION OF ALL EXISTING CIRCUITS.
3. THIS PANEL IN COMMON ENCLOSURE WITH CORRESPONDING SEPARATE CRITICAL BRANCH PANEL.
4. PROVIDE NEW BREAKER IN EXISTING PANEL. REFER TO PANEL SCHEDULE.

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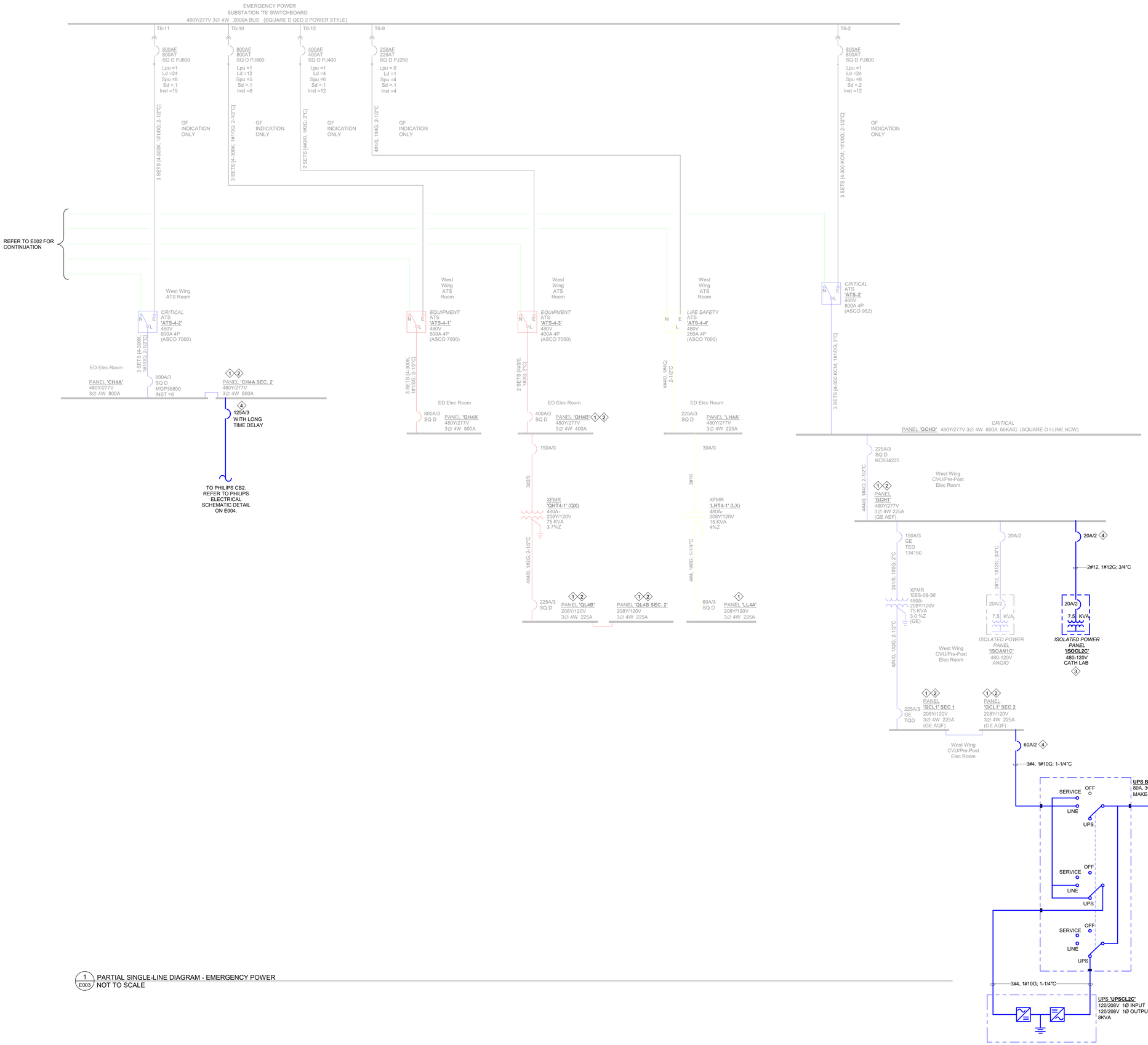

1 / E003 PARTIAL SINGLE-LINE DIAGRAM - EMERGENCY POWER
NOT TO SCALE

GENERAL NOTES:

A. EXISTING EQUIPMENT TO REMAIN IS SHOWN HALFTONE. DEMOLITION WORK IS SHOWN WITH HATCHING. NEW WORK IS SHOWN BOLD.

SINGLE-LINE DIAGRAM NOTES: (#)

1. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. REFER TO PLANS AND PANEL SCHEDULES.
2. PROVIDE UPDATED TYPEWRITTEN PANEL DIRECTORY IN THIS PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. TRACE OUT AND VERIFY ALL AFFECTED EXISTING CIRCUITS. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICATION OF ALL EXISTING CIRCUITS.
3. THIS PANEL IN COMMON ENCLOSURE WITH CORRESPONDING SEPARATE NORMAL POWER PANEL.
4. PROVIDE NEW BREAKER IN EXISTING PANEL. REFER TO PANEL SCHEDULE.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029811 SHANNON L. ERVIN 11/14/2025

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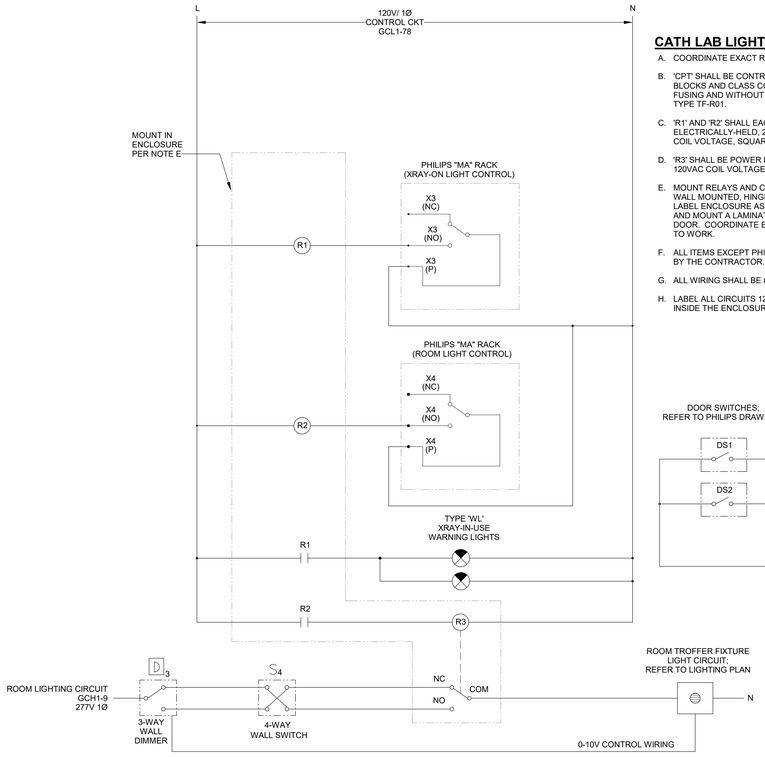


1 E004 X-RAY ON LIGHT, DOOR SWITCH, AND ROOM LIGHT CONTROL DIAGRAM
NOT TO SCALE

CATH LAB LIGHTING CONTROL NOTES:

A. COORDINATE EXACT REQUIREMENTS WITH PHILIPS DOCUMENTATION.

B. 'CPT' SHALL BE CONTROL POWER TRANSFORMER WITH FACTORY FUSE BLOCKS AND CLASS CC TIME-DELAY FUSE, PRIMARY LINE-TO-NEUTRAL FUSING AND WITHOUT SECONDARY PROTECTION, SQUARE D CLASS 9070 TYPE TF-R01.

C. 'R1' AND 'R2' SHALL EACH BE DEFINITE PURPOSE CONTACTORS, 1-POLE, ELECTRICALLY-HELD, 277VAC 20A, NORMALLY-OPEN CONTACTS, 24VAC COIL VOLTAGE, SQUARE D CLASS 8910 TYPE DP11 V14.

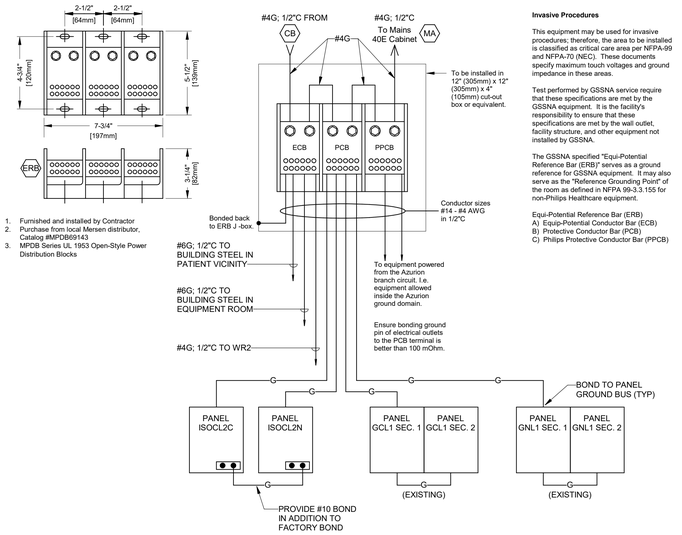
D. 'R3' SHALL BE POWER RELAY, SPDT, 277VAC 40A RATED CONTACTS, 120VAC COIL VOLTAGE, SQUARE D CLASS 8501 TYPE C015 V20.

E. MOUNT RELAYS AND CPT IN NEMA 1 STEEL ENCLOSURE, 16"H X 16"W X 6"D, WALL MOUNTED, HINGED DOOR, NVENTHOFFMAN A16N16ALP OR EQUAL. LABEL ENCLOSURE AS "CATH LAB LIGHTING CONTROL RELAY CABINET", AND MOUNT A LAMINATED COPY OF THIS WIRING DIAGRAM INSIDE THE DOOR. COORDINATE EXACT LOCATION WITH PHILIPS AND OWNER PRIOR TO WORK.

F. ALL ITEMS EXCEPT PHILIPS ITEMS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

G. ALL WIRING SHALL BE #12 WITH #12G IN 3/4"C UNLESS NOTED OTHERWISE.

H. LABEL ALL CIRCUITS 120V AND HIGHER THAT ENTER THIS ENCLOSURE INSIDE THE ENCLOSURE.



1. Furnished and installed by Contractor
2. Purchase from local Mersen distributor, Catalog #MPDB6943
3. MPDB Series UL 1953 Open-Style Power Distribution Blocks

Invasive Procedures

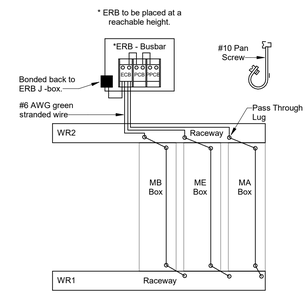
This equipment may be used for invasive procedures; therefore, the area to be installed is classified as critical care area per NFPA-99 and NFPA-70 (NEC). These documents specify maximum touch voltages and ground impedance in these areas.

Test performed by GSSNA service require that these specifications are met by the GSSNA equipment. It is the facility's responsibility to ensure that these specifications are met by the wall outlet, facility structure, and other equipment not installed by GSSNA.

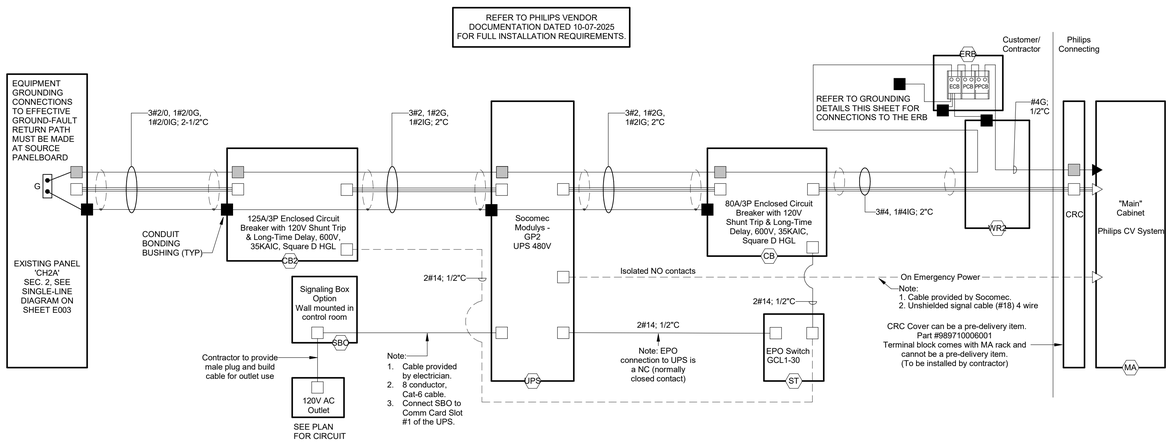
The GSSNA specified "Equi-Potential Reference Bar (ERB)" serves as a ground reference for GSSNA equipment. It may also serve as the "Reference Grounding Point" of the room as defined in NFPA 99-3.3.155 for non-Philips Healthcare equipment.

Equi-Potential Reference Bar (ERB)
A) Equip-Potential Conductor Bar (ECB)
B) Protective Conductor Bar (PCB)
C) Philips Protective Conductor Bar (PPCB)

2 E004 EQUI-POTENTIAL BAR (ERB) DETAIL
NOT TO SCALE



3 E004 GROUNDING DETAIL
NOT TO SCALE



4 E004 PHILIPS AZURION 7 C20 ELECTRICAL SCHEMATIC DIAGRAM
NOT TO SCALE

Legend

- Wiring and Connections made by Contractor unless otherwise noted. Isolated from metal casing.
- Bond / Safety ground wiring and Connections made by Contractor. Connections that are connected to metal casing (e.g. outer housing, busbar).
- Insulated / Isolated Ground wiring and Connections made by Contractor for equipment grounding conductor. Isolated from metal casing.
- Wiring Connection made by Philips
- Ground wiring Connection made by Philips
- Supply conductors installed together with equipment grounding conductor in the raceway (conduit).

Notes

- Wiring and circuit sizes from source supply must meet Philips regulation requirements and must be determined by contractor to meet buildingconditions and local codes. 3 Phase + PE (Protective Earth).
- RAP needs to be mounted to the wall by contractor.
- Wire sizes will be dependent on:
  1. Lug size of UPS and MA terminal block
  2. The tolerance on the allowed nominal mains voltage shall not exceed ±10%.
  3. MA CRC Terminal Block can only accept 4 AWG.
- Full UPS assembly, all wiring, installation, Battery Module/Power Module insertion (for modular systems), and startup in bypass is the responsibility of the electrician unless it is specifically stated otherwise. If electrical work is not completed when commissioning is scheduled there may be a second visit scheduled resulting in delay of timeline and additional cost. All Power Cables shall be in separate conduits from control and communication cables.
- ** This equipment may be used for invasive procedures; therefore, the area to be installed is classified as critical care area per NFPA-99 and NFPA-70 (NEC). These documents specify maximum touch voltages and ground impedance in these areas.
- ** The GSSNA specified "Equi-Potential Reference Bar (ERB)" serves as a ground reference for GSSNA equipment. It may also serve as the "Reference Grounding Point" of the room as defined in NFPA 99-3.3.140 for non-Philips Healthcare equipment.

(25.0)

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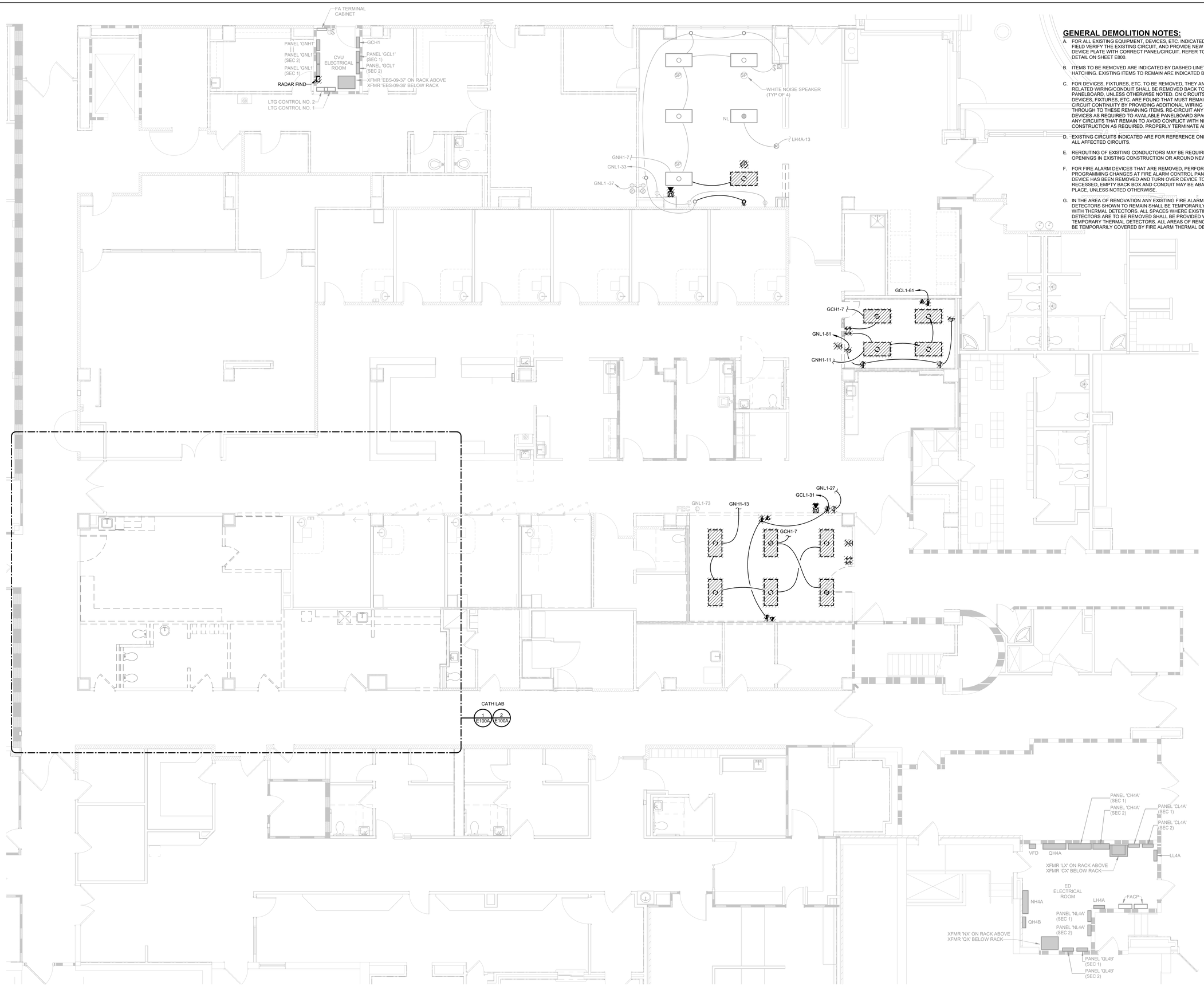

1 E100 ELECTRICAL DEMOLITION PLAN - GROUND FLOOR
3/16" = 1'-0"

GENERAL DEMOLITION NOTES:

A. FOR ALL EXISTING EQUIPMENT, DEVICES, ETC: INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT. REFER TO LABELING DETAIL ON SHEET E800.

B. ITEMS TO BE REMOVED ARE INDICATED BY DASHED LINETYPE AND/OR HATCHING. EXISTING ITEMS TO REMAIN ARE INDICATED BY HALFTONE.

C. FOR DEVICES, FIXTURES, ETC. TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

D. EXISTING CIRCUITS INDICATED ARE FOR REFERENCE ONLY. FIELD VERIFY ALL AFFECTED CIRCUITS.

E. REROUTING OF EXISTING CONDUCTORS MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR AROUND NEW WORK.

F. FOR FIRE ALARM DEVICES THAT ARE REMOVED, PERFORM ANY PROGRAMMING CHANGES AT FIRE ALARM CONTROL PANEL TO NOTE DEVICE HAS BEEN REMOVED AND TURN OVER DEVICE TO OWNER. RECESSED, EMPTY BACK BOX AND CONDUIT MAY BE ABANDONED IN PLACE, UNLESS NOTED OTHERWISE.

G. IN THE AREA OF RENOVATION ANY EXISTING FIRE ALARM SMOKE DETECTORS SHOWN TO REMAIN SHALL BE TEMPORARILY REPLACED WITH THERMAL DETECTORS. ALL SPACES WHERE EXISTING SMOKE DETECTORS ARE TO BE REMOVED SHALL BE PROVIDED WITH TEMPORARY THERMAL DETECTORS. ALL AREAS OF RENOVATION SHALL BE TEMPORARILY COVERED BY FIRE ALARM THERMAL DETECTORS.

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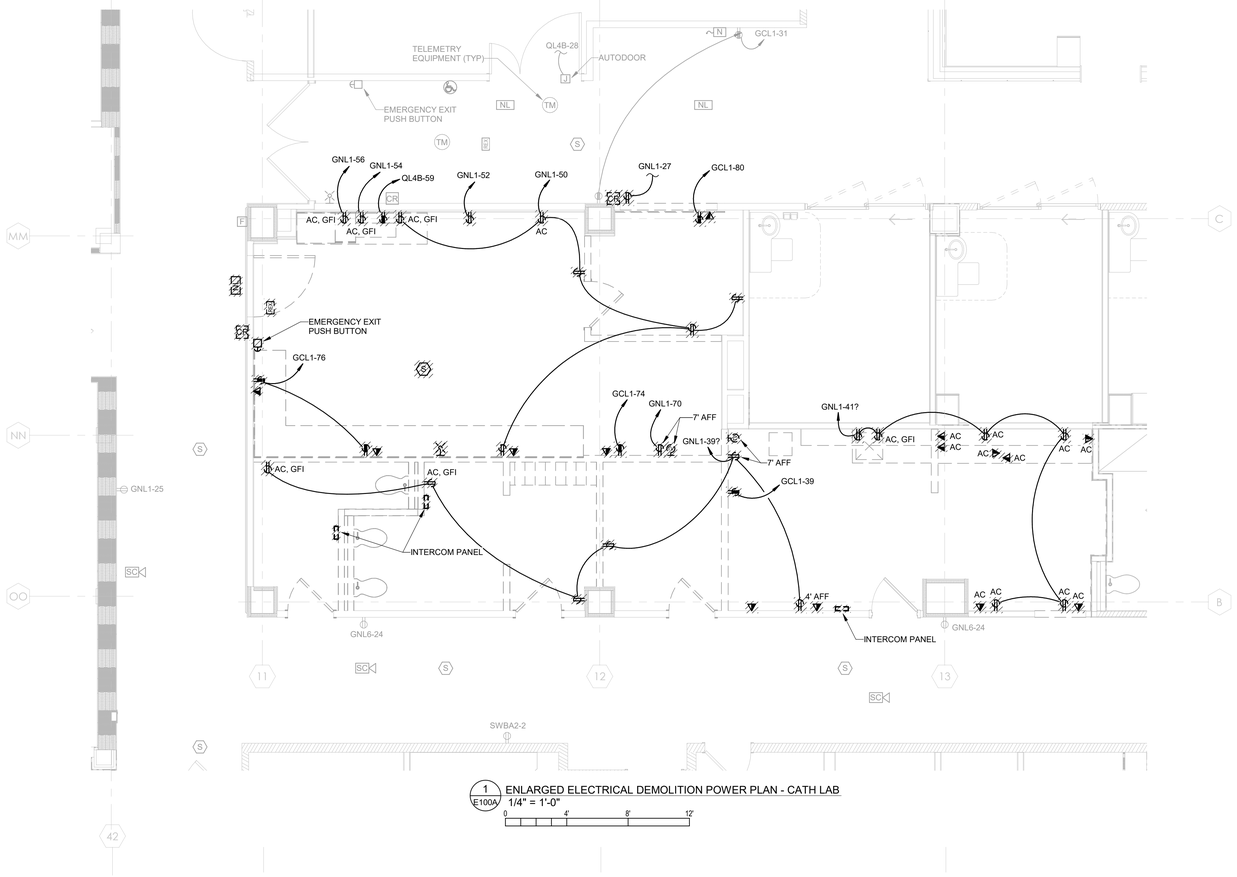
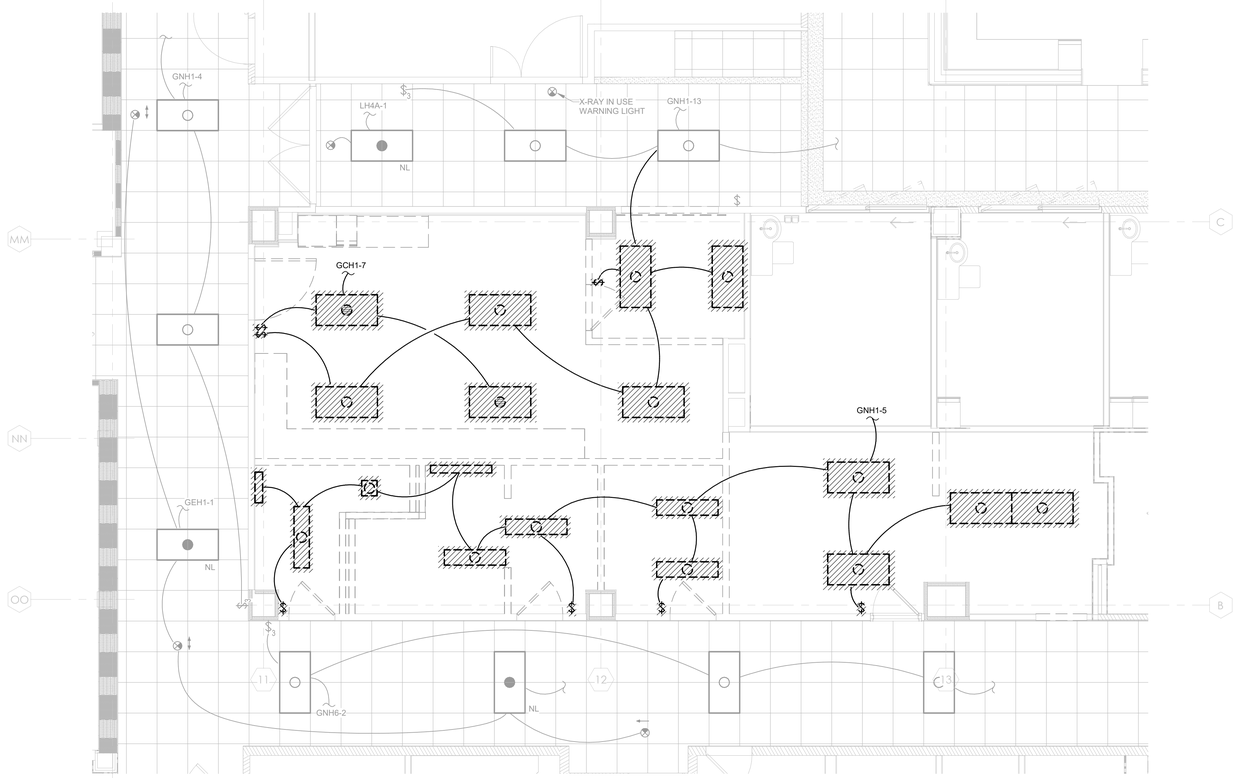


1 E100A ENLARGED ELECTRICAL DEMOLITION POWER PLAN - CATH LAB
1/4" = 1'-0"
0 4' 8' 12'



2 E100A ENLARGED ELECTRICAL DEMOLITION LIGHTING PLAN - CATH LAB
1/4" = 1'-0"
0 4' 8' 12'

GENERAL DEMOLITION NOTES:

A. FOR ALL EXISTING EQUIPMENT, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT. REFER TO LABELING DETAIL ON SHEET E800.

B. ITEMS TO BE REMOVED ARE INDICATED BY DASHED LINETYPE AND/OR HATCHING. EXISTING ITEMS TO REMAIN ARE INDICATED BY HALFTONE.

C. FOR DEVICES, FIXTURES, ETC. TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

D. EXISTING CIRCUITS INDICATED ARE FOR REFERENCE ONLY. FIELD VERIFY ALL AFFECTED CIRCUITS.

E. REROUTING OF EXISTING CONDUCTORS MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR AROUND NEW WORK.

F. FOR FIRE ALARM DEVICES THAT ARE REMOVED, PERFORM ANY PROGRAMMING CHANGES AT FIRE ALARM CONTROL PANEL TO NOTE DEVICE HAS BEEN REMOVED AND TURN OVER DEVICE TO OWNER. RECESSED, EMPTY BACK BOX AND CONDUIT MAY BE ABANDONED IN PLACE, UNLESS NOTED OTHERWISE.

G. IN THE AREA OF RENOVATION ANY EXISTING FIRE ALARM SMOKE DETECTORS SHOWN TO REMAIN SHALL BE TEMPORARILY REPLACED WITH THERMAL DETECTORS. ALL SPACES WHERE EXISTING SMOKE DETECTORS ARE TO BE REMOVED SHALL BE PROVIDED WITH TEMPORARY THERMAL DETECTORS. ALL AREAS OF RENOVATION SHALL BE TEMPORARILY COVERED BY FIRE ALARM THERMAL DETECTORS.

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NC Firm License # C-0819

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

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Drawing Title: ENLARGED ELECTRICAL DEMOLITION PLANS
Drawing Number: E100A

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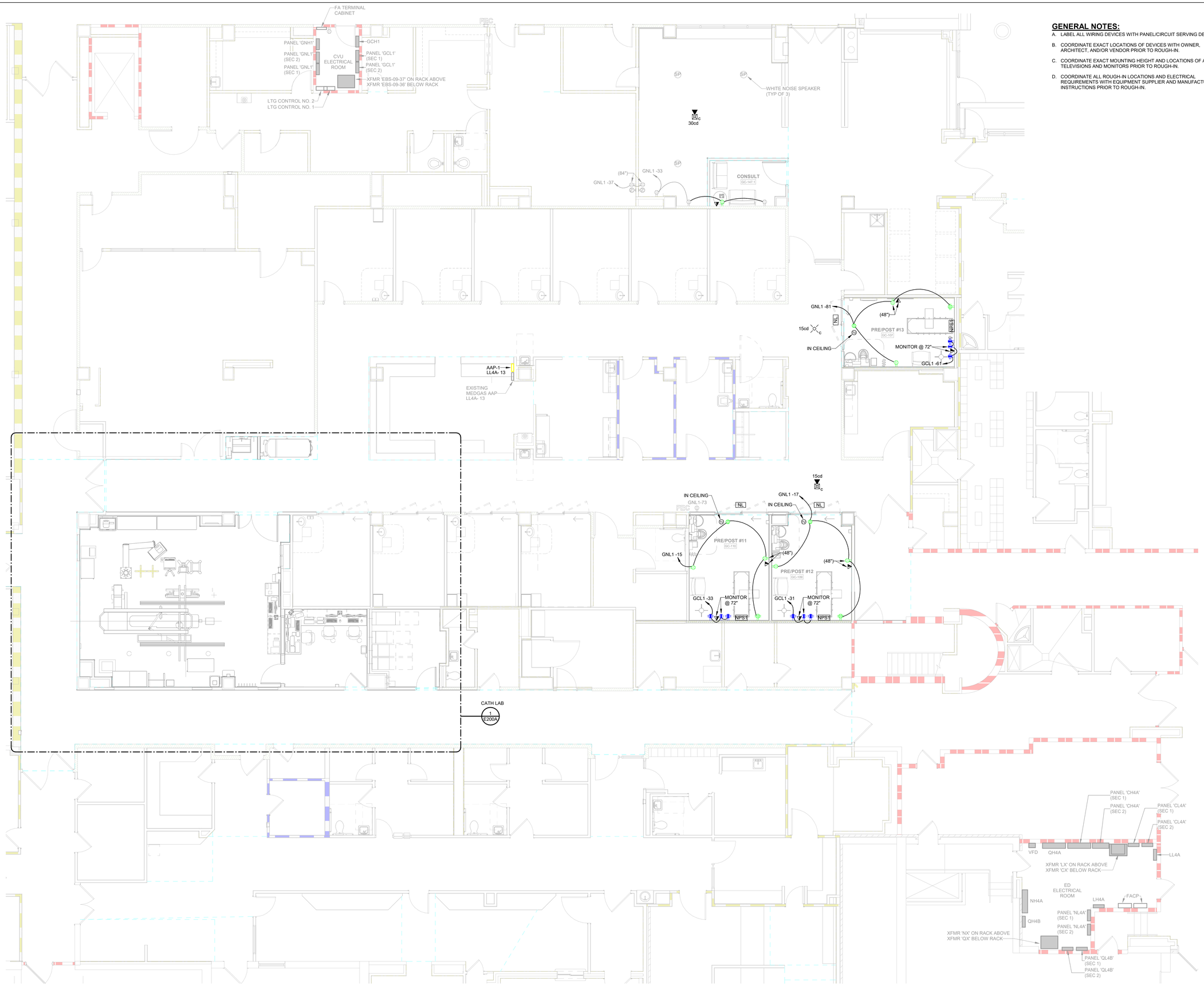

1 E200 ELECTRICAL POWER PLAN - GROUND FLOOR
3/16" = 1'-0"

0 4' 8' 12' 16'

GENERAL NOTES:

A. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE.

B. COORDINATE EXACT LOCATIONS OF DEVICES WITH OWNER, ARCHITECT, AND/OR VENDOR PRIOR TO ROUGH-IN.

C. COORDINATE EXACT MOUNTING HEIGHT AND LOCATIONS OF ALL TELEVISIONS AND MONITORS PRIOR TO ROUGH-IN.

D. COORDINATE ALL ROUGH-IN LOCATIONS AND ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER AND MANUFACTURER'S INSTRUCTIONS PRIOR TO ROUGH-IN.

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PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL SEAL 029811 ENGINEER SHANNON L. ELLIS 11/14/2025

SHEET INFORMATION

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Checked By: SLE
Drawing Title: ELECTRICAL POWER PLAN - GROUND FLOOR
Drawing Number: E200

11/14/2025 11:12:40 AM PROJECT FILES ON ACC

GENERAL NOTES:

A. IN ADDITION TO THESE DRAWINGS, COORDINATE WITH THE PHILIPS PROJECT MANAGER, OBTAIN THEIR LATEST DOCUMENTATION FOR THIS PROJECT, AND PROVIDE ALL ADDITIONAL RACEWAY, CONDUIT, CABLING, WIRING, CONNECTIONS, AND OTHER REQUIRED WORK INDICATED IN THE PHILIPS DOCUMENTATION FOR A FULLY COMPLETE, OPERABLE, AND CODE COMPLIANT SYSTEM. FOR DISCREPANCIES BETWEEN THESE DRAWINGS AND THE PHILIPS DOCUMENTATION, CONTACT THE ENGINEER FOR RESOLUTION.

B. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE.

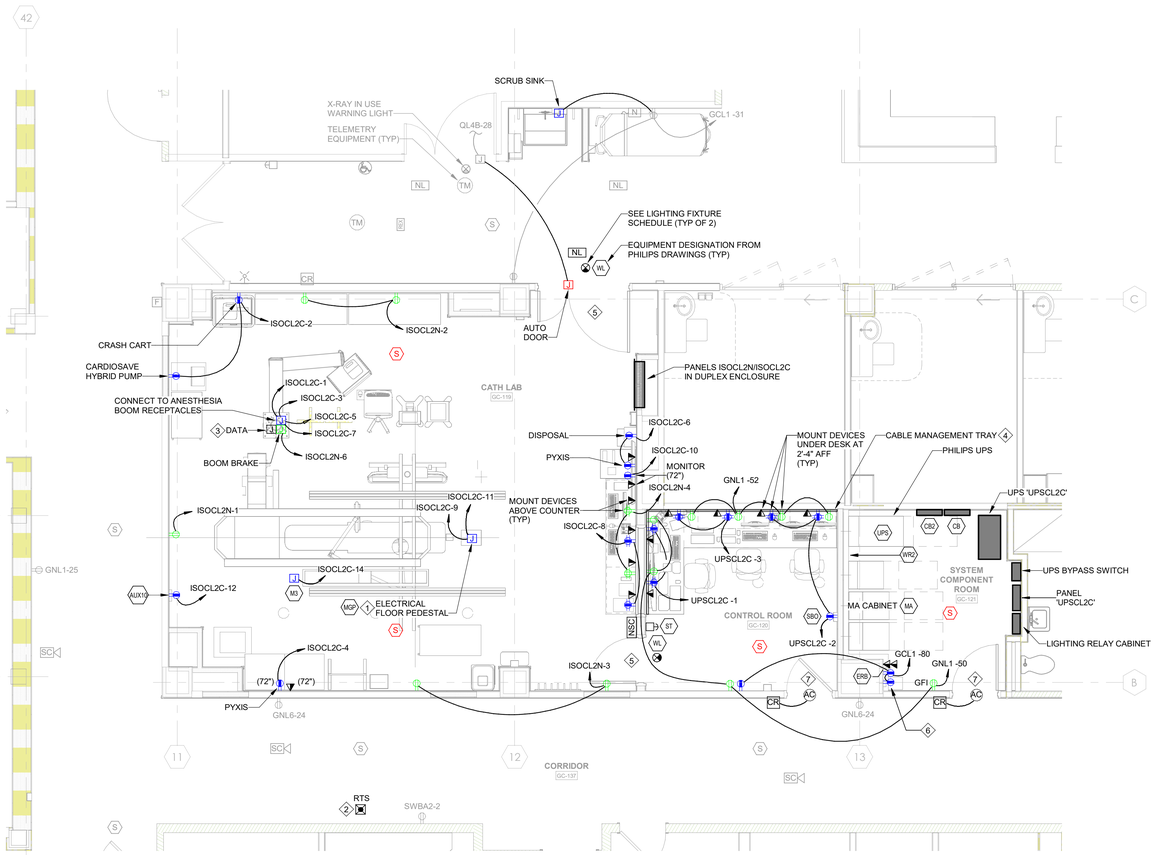
C. COORDINATE EXACT LOCATIONS OF DEVICES WITH OWNER, ARCHITECT, AND/OR VENDOR PRIOR TO ROUGH-IN.

D. COORDINATE EXACT MOUNTING HEIGHT AND LOCATIONS OF ALL TELEVISIONS AND MONITORS PRIOR TO ROUGH-IN.

E. COORDINATE ALL ROUGH-IN LOCATIONS AND ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER AND MANUFACTURER'S INSTRUCTIONS PRIOR TO ROUGH-IN.

PLAN NOTES:

1. COORDINATE EXACT LOCATION OF FLOOR PEDESTAL WITH OWNER AND PHILIPS CLEARANCE REQUIREMENTS PRIOR TO ROUGH-IN. REFER TO DETAIL ON SHEET E800 AND PHILIPS DETAIL 2/S1.
2. MOUNT RTS FOR DUCT DETECTOR AT RTU-40 IN CEILING OF CORRIDOR GC-137. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE JUNCTION BOX FOR BOOM DATA CABLING CONNECTION WITH 1-1/2"C STUBBED OUT INTO CORRIDOR.
4. PROVIDE CABLE MANAGEMENT TRAY FOR ROUTING OF COMPUTER PERIPHERAL CABLES FROM CPU TOWERS IN CABINET UNDER THE CONTROL DESK. COORDINATE LOCATION WITH PHILIPS WALL RACEWAY AND WIRING DEVICES UNDER DESK. OWNER TO APPROVE LAYOUT UNDER DESK PRIOR TO INSTALLATION.
5. PROVIDE DOOR SWITCHES AND CONNECT TO PHILIPS EQUIPMENT PER PHILIPS DOCUMENTATION. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
6. MOUNT RECEPTACLE JUST BELOW PHILIPS RACEWAY 'WR2'. COORDINATE EXACT LOCATION WITH PHILIPS PRIOR TO ROUGH-IN.
7. PROVIDE ONE (1) 2" SLEEVE ABOVE CEILING AND DOORWAY INTO THIS ROOM.



1 E200A ENLARGED ELECTRICAL POWER PLAN - CATH LAB
1/4" = 1'-0"
0 4' 8' 12'

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PROFESSIONAL STAMPS

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RHV	SLE

Drawing Title
ENLARGED ELECTRICAL POWER PLAN

Drawing Number
E200A

11/14/2025 11:12:42 AM PROJECT FILES ON ACC

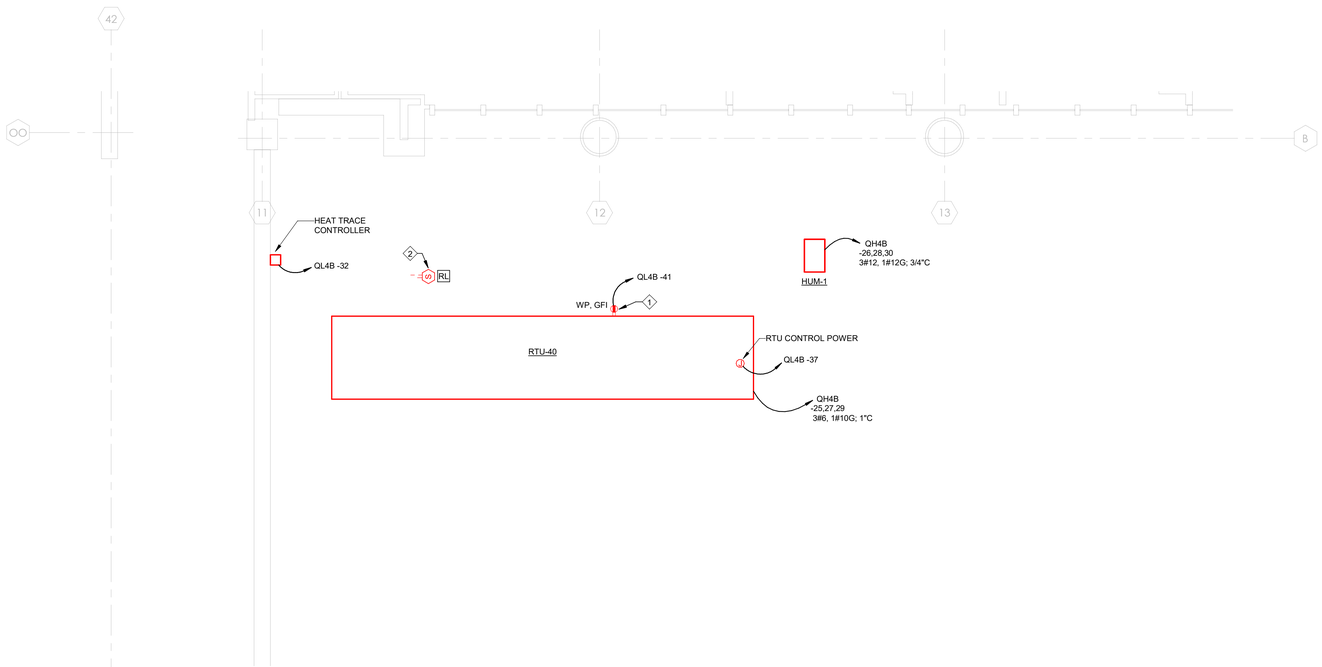
GENERAL NOTES:

A. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE.

B. DISCONNECTS ARE FURNISHED WITH MECHANICAL EQUIPMENT UNO.

PLAN NOTES:

1. COORDINATE FINAL LOCATION OF RECEPTACLE WITH HVAC EQUIPMENT.
2. MOUNT RTS FOR DUCT DETECTOR AT RTU-40 IN CEILING OF CORRIDOR GC-137 BELOW. SEE SHEET E200A.



1 E201 ELECTRICAL PLAN - ROOF
1/4" = 1'-0"
0 4' 8' 12'

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PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029811 ENGINEER SHANNON L. EDWARDS
11/14/2025

SHEET INFORMATION

Issued: 11/14/2025
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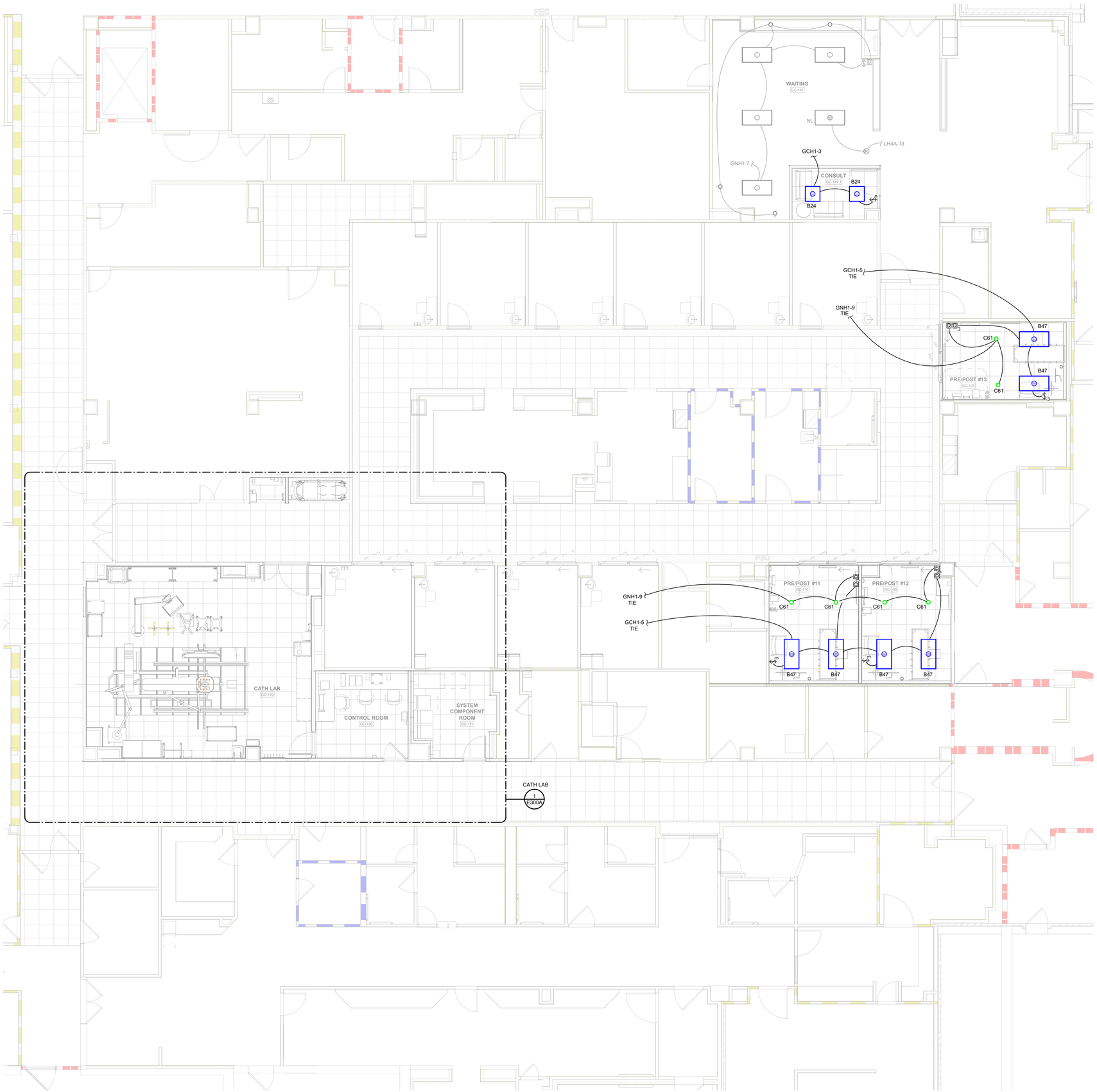

1 E300 ELECTRICAL LIGHTING PLAN - GROUND FLOOR
3/16" = 1'-0"

0 4' 8' 12' 16'

GENERAL NOTES:

A. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND HEIGHTS OF ALL FIXTURES.

B. SHARING OF NEUTRALS IS NOT ALLOWED ON ANY CIRCUITS.

C. COORDINATE ALL LIGHT SWITCH/CONTROL LOCATIONS WITH DOORSWINGS PRIOR TO ROUGH-IN.

D. LABEL ALL LIGHTING CONTROLS WITH PANEL/CIRCUIT SERVING DEVICE.

E. DEVICES IN CLOSE PROXIMITY SHALL BE GANGED WHEREVER POSSIBLE. PROVIDE METAL DIVIDER BETWEEN DEVICES OF DIFFERENT VOLTAGES. ALL DEVICE LOCATIONS SHALL BE APPROVED BY THE ARCHITECT BEFORE WALLS ARE CLOSED.

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PROFESSIONAL STAMPS

NORTH CAROLINA PROFESSIONAL SEAL C29811 ENGINEER SHANNON L. ELLIOTT
11-14-2025

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Project Status
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RHV

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SLE

Drawing Title
ELECTRICAL LIGHTING PLAN - GROUND FLOOR

Drawing Number
E300

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GENERAL NOTES:

A. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND HEIGHTS OF ALL FIXTURES.

B. SHARING OF NEUTRALS IS NOT ALLOWED ON ANY CIRCUITS.

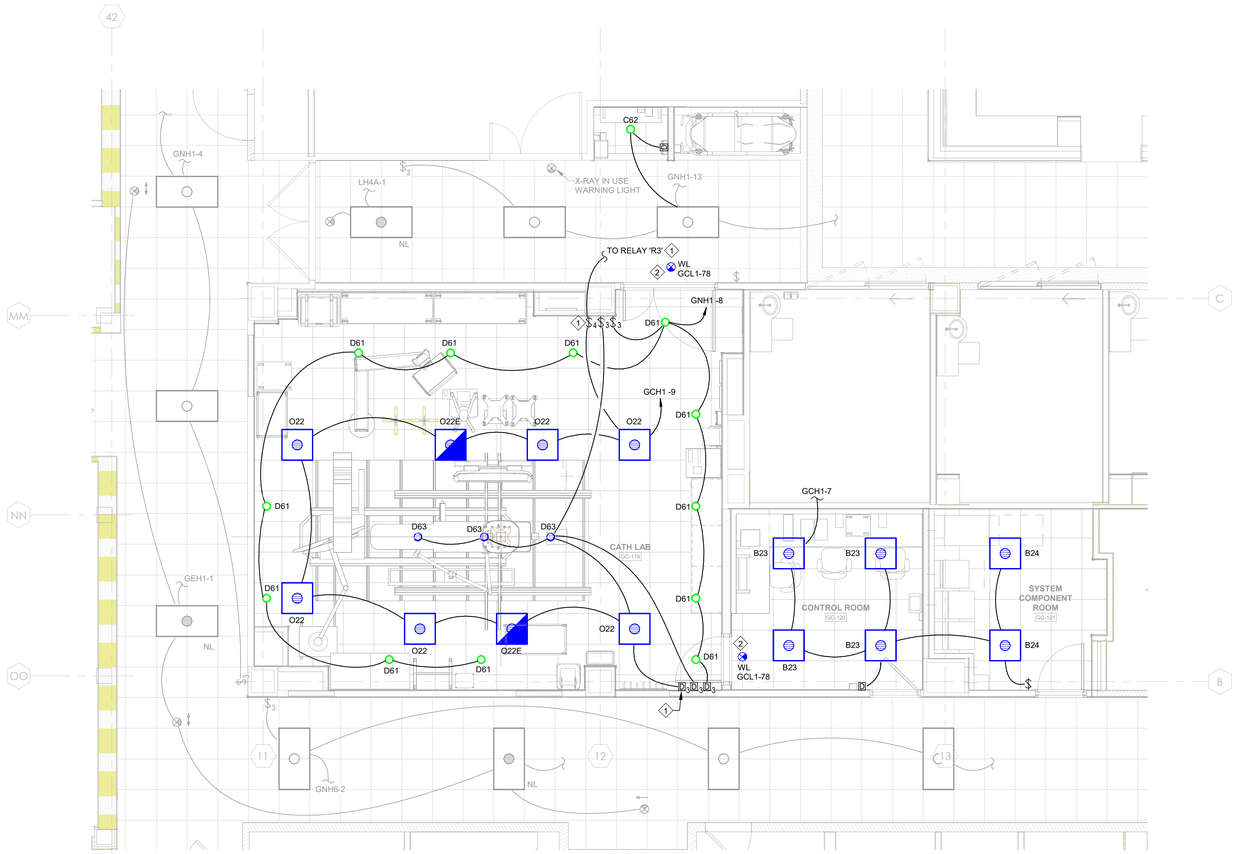
C. COORDINATE ALL LIGHT SWITCH/CONTROL LOCATIONS WITH DOORSWINGS PRIOR TO ROUGH-IN.

D. LABEL ALL LIGHTING CONTROLS WITH PANEL/CIRCUIT SERVING DEVICE.

E. DEVICES IN CLOSE PROXIMITY SHALL BE GANGED WHEREVER POSSIBLE. PROVIDE METAL DIVIDER BETWEEN DEVICES OF DIFFERENT VOLTAGES. ALL DEVICE LOCATIONS SHALL BE APPROVED BY THE ARCHITECT BEFORE WALLS ARE CLOSED.

PLAN NOTES: (#)

1. ROUTE CIRCUIT THROUGH RELAY CONTROLLED BY CATH LAB SYSTEM FOOTSWITCH. REFER TO DIAGRAM ON SHEET E004.
2. WIRE WARNING LIGHT FOR CONTROL THROUGH PHILIPS EQUIPMENT. REFER TO DIAGRAM ON SHEET E004.



1 E300A ENLARGED ELECTRICAL LIGHTING PLAN - CATH LAB
1/4" = 1'-0"
0 4' 8' 12'

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PROFESSIONAL STAMPS

SHEET INFORMATION

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11/14/2025

Scale
AS INDICATED

Project Status
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RHV

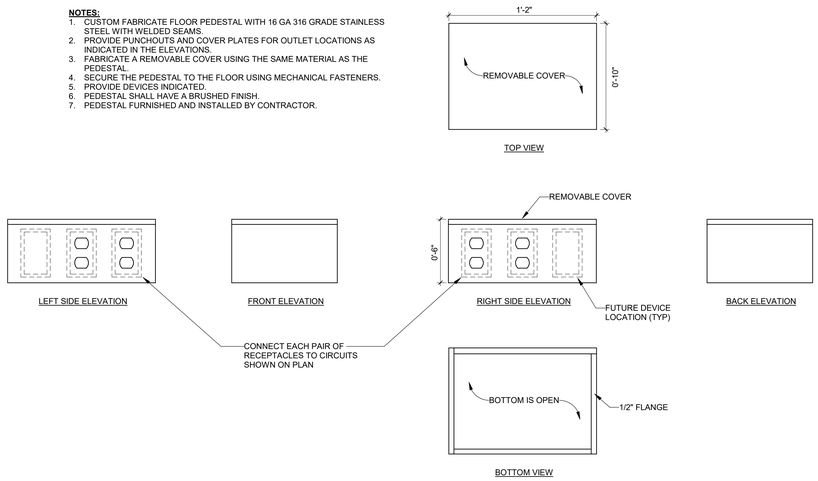
Checked By
SLE

Drawing Title
ENLARGED ELECTRICAL LIGHTING PLAN

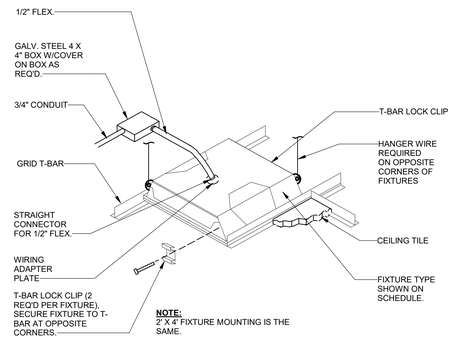
Drawing Number
E300A

11/14/2025 11:12:50 AM PROJECT FILES ON ACC

NOTES:
1. CUSTOM FABRICATE FLOOR PEDESTAL WITH 16 GA 316 GRADE STAINLESS STEEL WITH WELDED SEAMS.
2. PROVIDE PUNCHOUTS AND COVER PLATES FOR OUTLET LOCATIONS AS INDICATED IN THE ELEVATIONS.
3. FABRICATE A REMOVABLE COVER USING THE SAME MATERIAL AS THE PEDESTAL.
4. SECURE THE PEDESTAL TO THE FLOOR USING MECHANICAL FASTENERS.
5. PROVIDE DEVICES INDICATED.
6. PEDESTAL SHALL HAVE A BRUSHED FINISH.
7. PEDESTAL FURNISHED AND INSTALLED BY CONTRACTOR.

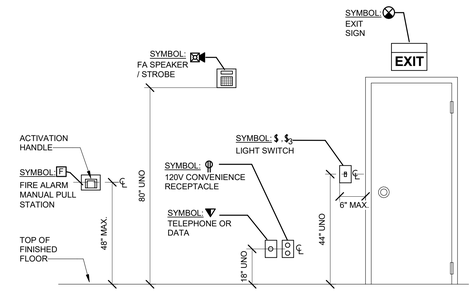


1 E800 FLOOR PEDESTAL DETAIL
NOT TO SCALE

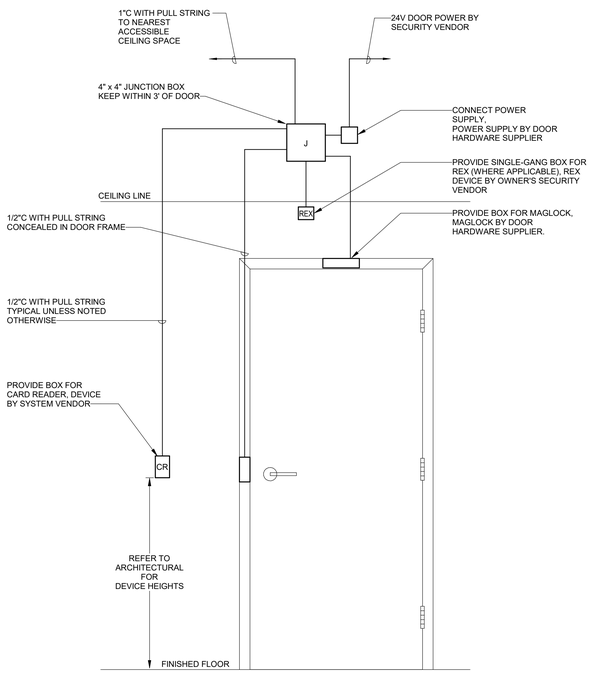


NOTE:
2' X 4' FIXTURE MOUNTING IS THE SAME.

2 E800 TYPICAL RECESSED FIXTURE MOUNTING
NOT TO SCALE

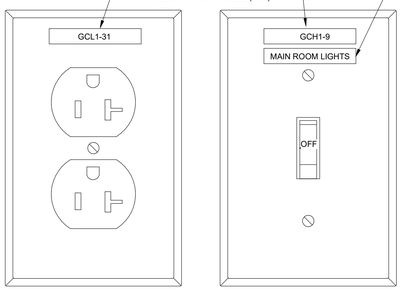


3 E800 TYPICAL DEVICE MOUNTING HEIGHTS
NOT TO SCALE



NOTE:
COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS FOR ALL DEVICES WITH ACTUAL DOOR CONSTRUCTION AND SYSTEM VENDOR PRIOR TO ROUGH-IN. PROVIDE ALL LOW-VOLTAGE WIRING PER DOOR AND SECURITY SYSTEM VENDOR WIRING DIAGRAMS

5 E800 TYPICAL DOOR PREPARATION FOR ACCESS CONTROL (AC)
NOT TO SCALE



TYPICAL RECEPTACLE FACEPLATE

TYPICAL LIGHTING CONTROL (SWITCH, DIMMER, OCCUPANCY SENSOR) FACEPLATE

FOR MULTIPLE LIGHTING CONTROLS IN SAME ROOM, PROVIDE LABEL INDICATING LIGHTS SERVED BY THIS CONTROL

NOTES

A. PROVIDE LABEL FOR ALL WIRING DEVICES, INCLUDING BUT NOT LIMITED TO:
   - RECEPTACLES
   - LIGHT SWITCHES
   - WALL DIMMERS
   - WALL OCCUPANCY SENSORS
   - FAN SPEED CONTROLS
   - EMERGENCY STOP BUTTONS (SHUNT-TRIP CIRCUIT)
   - MANUAL MOTOR STARTERS
   - REMOTE CONTROL SWITCHES
   - CONTROL DEVICES

B. LABEL MATERIAL:
   - STANDARD WALL PLATES: EMBOSSED ADHESIVE TAPE, WITH ¼-INCH BLACK-FILLED LETTERS ON CLEAR BACKGROUND.

C. PROVIDE DURABLE WIRE MARKERS OR TAGS INSIDE DEVICE BOX OR OUTLET BOX.

D. FOR MULTIPLE LIGHTING CONTROLS IN SAME ROOM, ALSO PROVIDE LABEL INDICATING LIGHTS SERVED BY EACH CONTROL.

E. FOR MANUAL MOTOR STARTERS AND SWITCHES USED TO CONTROL MOTORS OR EQUIPMENT OTHER THAN LIGHTS, ALSO PROVIDE LABEL INDICATING EQUIPMENT SERVED BY THE CONTROL.

F. WHEN LABELING OUTDOOR DEVICES, LABEL SHALL BE INSTALLED ON THE FACEPLATE INSIDE THE WEATHERPROOF DEVICE COVER, NOT ON THE OUTSIDE OF THE COVER.

4 E800 WIRING DEVICE LABELING DETAIL
NOT TO SCALE

TYPICAL NAMEPLATE EXAMPLES FOR EACH EQUIPMENT TYPE

Isolated Power Panel **ISOCL2C** 480V:120V Isolated Power Fed From Panel 'GCH1' CRITICAL	Isolated Power Panel **ISOCL2N** 480V:120V Isolated Power Fed From Panel 'GNH1' NORMAL
Panelboard **UPSCL2C** 120/208V 1Ø 3W Fed From Panel 'GCL1' via UPS 'UPSCL2C' CRITICAL	UPS **UPSCL2C** 120/208V 1Ø Input 120/208V 1Ø Output Fed From Panel 'GCL1' CRITICAL
Equipment Disconnect **CATH LAB DISCONNECT 'CB'** 480V 3Ø Fed From PHILIPS UPS Shunt-Trip: GCL1-30 CRITICAL	Equipment Disconnect **CATH LAB DISCONNECT 'CB2'** 480V 3Ø Fed From CH4A-67,69,71 Shunt-Trip: GCL1-30 CRITICAL
Equipment Cabinet **CATH LAB LIGHTING CONTROL RELAY CABINET** 277V 1Ø GCH1-9 (Lights) 120V 1Ø GCL1-78 (Control) CRITICAL	Equipment Cabinet **UPSCL2C MAINTENANCE BYPASS SWITCH** CRITICAL
Mech Equipment Disconnects & VFD's **RTU-40** 480V 3Ø QH4B-25/27/29	Mech Equipment Disconnects & VFD's **HUM-1** 480V 3Ø QH4B-26/28/30

EQUIPMENT LABELING NOTES:

A. PROVIDE ENGRAVED LAMINATED NAMEPLATE FOR EACH PIECE OF ELECTRICAL EQUIPMENT. LABEL TAPE IS NOT ACCEPTABLE.

B. COORDINATE SUPPLY SOURCE (PANEL/CIRCUIT WHERE FED FROM) WITH ACTUAL CIRCUITS USED.

C. ON EACH UNIT OF EQUIPMENT, INSTALL UNIQUE DESIGNATION LABEL THAT IS CONSISTENT WITH WIRING DIAGRAMS AND SCHEDULES.

D. PROVIDE LABEL AS SHOWN FOR EACH EQUIPMENT TYPE. INFORMATION SHALL INCLUDE NAME OF EQUIPMENT, VOLTAGE/PHASE, SUPPLY SOURCE, AND SYSTEM BRANCH.

E. COORDINATE EXACT NAME/DESIGNATION OF MECHANICAL/PLUMBING EQUIPMENT WITH MECHANICAL/PLUMBING CONTRACTOR AND OWNER PRIOR TO CONSTRUCTING NAMEPLATES.

F. LABEL EQUIPMENT WITH SELF-ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. UNLESS OTHERWISE INDICATED, EQUIPMENT NAME SHALL BE 1-INCH-HIGH LETTERS, AND ADDITIONAL TEXT SHALL BE 1/2-INCH-HIGH LETTERS. LABEL SIZE SHALL ACCOMMODATE TEXT REQUIRED FOR EACH PARTICULAR PIECE OF EQUIPMENT.

G. FOR MECHANICAL EQUIPMENT SUCH AS AIR HANDLERS, CHILLERS, ETC. THAT MAY BE FURNISHED WITH AN INTEGRAL DISCONNECT, PROVIDE LABEL ON UNIT AT THE INTEGRAL DISCONNECT LOCATION OR INPUT POWER CONNECTION LOCATION.

H. LABEL THE FOLLOWING ITEMS:
   - PANELBOARDS
   - ENCLOSURES AND ELECTRICAL CABINETS.
   - DISCONNECT SWITCHES.
   - ENCLOSED CIRCUIT BREAKERS.
   - UNINTERRUPTIBLE POWER SYSTEMS (UPS).

I. UNC HEALTH WAYNE NAMEPLATE COLOR CODE:

   NORMAL POWER: BLACK WITH WHITE TEXT
   CRITICAL BRANCH: RED WITH WHITE TEXT
   LIFE SAFETY BRANCH: YELLOW WITH WHITE TEXT
   EQUIPMENT BRANCH: ORANGE WITH WHITE TEXT
   GENERATOR STANDBY: GREEN WITH WHITE TEXT

6 E800 EQUIPMENT IDENTIFICATION NAMEPLATE DETAIL
NOT TO SCALE

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SHEET INFORMATION

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Drawing Number: E800

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PANEL GCH1
(EXISTING TO REMAIN)

VOLTAGE:	480/277	3 PH 4W	
FEEDER AMP:	225	MAINS:	225 MLO
LUGS:		FEED:	BOTTOM
AIC RATING:	14K		
MOUNTING:	SURFACE		
ENCLOSURE:	NEMA 1		
REMARKS:	CRITICAL BRANCH		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	LTG ELEC ROOM GC-158	160	1	A	2	3300	PANEL 'ISOAN1C'	E	20/2
20/1	**R**	**LTG PAT AREA/CAFÉ, CVU CONSULT**	**120**	**3**	B	4	3300	↓	↓	↓
20/1	**R**	**LTG PRE/POST PATIENT ROOMS**	**1980**	**5**	C	6	2770	**PANEL 'ISOCL2C'**	**N**	**20/2**
20/1	**R**	**LTG PRE/POST STAFF AREAS**	**1570**	**7**	A	8	2770	↓	↓	↓
20/1	**R**	**LTG CATH LAB**	**672**	**9**	B	10	0	SPARE	E	20/1
20/1	E	LTG OFFICE/ANGIO CTRL&EQP RM	600	11	C	12	0	SPARE	E	20/1
20/1	E	LTG ANGIO	1900	13	A	14	1000	LTG GC 105	E	20/1
20/1	E	SPARE	0	15	B	16	360	LTG GB 202	E	20/1
20/1	E	SPARE	0	17	C	18	1000	LTG GC 142	E	20/1
20/1	E	LTG ELEC EQUIP ROOM GF114	160	19	A	20	1000	LTG GC 233	E	20/1
20/1	E	OUTSIDE LIGHTS VIA LC1	2200	21	B	22	1000	LTG GC 210	E	20/1
20/1	E	OUTSIDE LIGHTS VIA LC1	2200	23	C	24	1000	LTG GC 209	E	20/1
20/1	E	SPARE	0	25	A	26	1000	LTG GC 231	E	20/1
20/1	E	SPARE	0	27	B	28	80	LTG GC 230	E	20/1
20/1	E	SPARE	0	29	C	30	80	LTG GC 246	E	20/1
20/1	E	OUTSIDE LIGHTS VIA LC1	2200	31	A	32	2200	OUTSIDE LIGHTS VIA LC1	E	20/1
20/1	E	OUTSIDE LIGHTS VIA LC1	2200	33	B	34	2200	OUTSIDE LIGHTS VIA LC1	E	20/1
20/1	E	OUTSIDE LIGHTS VIA LC1	2200	35	C	36	2200	OUTSIDE LIGHTS VIA LC1	E	20/1
20/1	E	OUTSIDE LIGHTS VIA LC1	2200	37	A	38	0	SPARE	E	60/3
20/1	E	OUTSIDE LIGHTS VIA LC1	2200	39	B	40	0	↓	↓	↓
20/1	E	OUTSIDE LIGHTS VIA LC1	2200	41	C	42	0	↓	↓	↓
150/3	E	PANEL 'GCL1' VIA EBS-09-36	19000		A		0			
↓	↓	↓ (SUBFEED BKR)	16930		B		0			
↓	↓	↓	14420		C		0			

Connected Load Per Phase	PH A:	38460	PH B:	31262	PH C:	30650

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	38882	0	0	57290	0	0	4200	100372	120.7
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	48603	0	0	33645	0	0	4200	86448	104.0

PANEL GCL1 SEC.1
(EXISTING TO REMAIN)

VOLTAGE:	208/120	3 PH 4W	
FEEDER AMP:	225	MAINS:	225 MCB
LUGS:		FEED:	BOTTOM
AIC RATING:	10K		
MOUNTING:	SURFACE		
ENCLOSURE:	NEMA 1		
REMARKS:	CRITICAL POWER		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	LTS GB 138-129-119	1000	1	A	2	500	PEVCO PEDS	E	20/1
20/1	E	PEVCO DIVERTER XRAY	1000	3	B	4	500	PEVCO ED	E	20/1
20/1	E	REC CVU RM #4	1000	5	C	6	500	PEVCO HOLDING	E	20/1
20/1	E	REC CVU RM #4	1000	7	A	8	1200	REC CVU RM #2	E	20/1
20/1	E	REC CVU RM #5	1000	9	B	10	180	REC CVU RM #1	E	20/1
20/1	E	REC MEDICAID SPECIALIST	1000	11	C	12	500	REC CVU RM #1	E	20/1
20/1	E	MRI HALLWAY DOOR POWER	500	13	A	14	0	SPARE	E	20/1
20/1	E	CVU PEVCO TUBE STATION	1000	15	B	16	500	REC CVU RM #2	E	20/1
20/1	E	REC GF101 A CVU ELEC ROOM	180	17	C	18	720	REC ELEV PIT, ELEV EQ ROOM	E	20/1
20/1	E	REC GC 104	720	19	A	20	880	PANEL 'UPSAN1C'	E	40/2
20/1	E	REC GC 104	720	21	B	22	1440	↓	↓	↓
20/1	E	REC GC 104	720	23	C	24	180	REC CVU RM #5	E	20/1
20/1	E	REC GB 208	720	25	A	26	360	REC ANGIO EQPT & CTRL ROOM	E	20/1
20/1	E	ANGIO WL/CONTROL POWER	500	27	B	28	1000	ANGIO MCKESSON EQUIP	E	20/1
15/1	E,LO	ANGIO SHUNT TRIP POWER	200	29	C	**30**	**200**	**CATH LAB SHUNT TRIP POWER**	**R, LO**	**20/1**
20/1	**R**	**REC CVU RM #12**	**900**	**31**	A	32	180	REC CVU RM #6	E	20/1
20/1	**R**	**REC CVU RM #11**	**900**	**33**	B	34	500	REC CVU RM #6	E	20/1
20/1	E	REC CVU RM #3	1000	35	C	36	500	REC CVU NURSE STATION	E	20/1
20/1	E	REC GC 147	720	37	A	38	500	REC CVU NURSE STATION	E	20/1
20/1	**R**	**REC PMC ADMIN**	**800**	**39**	B	40	180	REC CVU MEDS RM	E	20/1
20/1	E	REC CVU RM #3	1000	41	C	42	500	ICE MACHINE CVU MEDS RM	E	20/1
		GCL1 SECTION 2 VIA F/T LUGS	9820		A		0			
			6710		B		0			
			6220		C		0			

Connected Load Per Phase	PH A:	19000	PH B:	16930	PH C:	14420

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	1000	0	0	45150	0	0	4200	50350	139.8
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	1250	0	0	27575	0	0	4200	33025	91.7

PANEL GCL1 SEC.2
(EXISTING TO REMAIN)

VOLTAGE:	208/120	3 PH 4W	
FEEDER AMP:	225	MAINS:	225 MLO
LUGS:		FEED:	BOTTOM
AIC RATING:	10K		
MOUNTING:	SURFACE		
ENCLOSURE:	NEMA 1		
REMARKS:	CRITICAL BRANCH		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	REC CVU RM #7	180	43	A	44	1800	REC CVU MEDS	E	20/1
20/1	E	REC CVU RM #7	180	45	B	46	600	REC CVU MEDS REFRIG	E	20/1
20/1	E	REC CVU RM #8	180	47	C	48	1000	REC CVU MEDS AND PYXIS	E	20/1
20/1	E	REC CVU RM #8	180	49	A	50	1800	REC CVU MEDS AND PYXIS	E	20/1
20/1	E	REC CVU RM #9	180	51	B	52	600	REC CVU MEDS AND PYXIS	E	20/1
20/1	E	REC CVU RM #9	180	53	C	54	360	REC CVU HALLWAY	E	20/1
20/1	E	PLUG MOLD GE 101	1080	55	A	56	0	SPARE	E	20/1
20/1	E	PLUG MOLD GE 101	1080	57	B	58	720	REC GC 120 PORT X-RAY	E	20/1
20/1	E	PLUG MOLD GE 101	1080	59	C	60	0	SPARE	E	20/1
20/1	**R**	**REC CVU RM #13**	**900**	**61**	A	62	360	REC CVU RM #10	E	20/1
20/1	E	GC 148 ICE MACHINE	1200	63	B	64	0	SPARE	E	20/1
20/1	E	DOOR CONTROLLER	500	65	C	66	360	REC CVU HALLWAY	E	20/1
20/1	E	DOOR LOCK	500	67	A	68	500	AUTO DOOR	E	20/1
20/1	E	AUTO DOOR	500	69	B	70	0	AUTO DOOR	E	20/1
20/1	E	AUTO DOOR	500	71	C	72	0	AUTO DOOR	E	20/1
20/1	E	SPARE	0	73	A	**74**	**1620**	**PANEL 'UPSCL2C'**	**N**	**60/2**
20/1	E	REC CVU RM #10	180	75	B	**76**	**720**	↓	↓	↓
20/1	E	REC CHIEF'S OFFICE	360	77	C	**78**	**500**	**CATH LAB WL/CONTROL POWER**	**R**	**20/1**
20/1	E	REC CHIEF'S OFFICE	360	79	A	**80**	**540**	**REC CATH LAB CTRL & EQPT RMS**	**R**	**20/1**
20/1	E	REC CVU DICTATION	250	81	B	82	500	REC CVU NURSE DESK	E	20/1
20/1	E	SPARE	0	83	C	84	1200	REC CVU COPIER & NURSE DESK	E	20/1

Connected Load Per Phase	PH A:	9820	PH B:	6710	PH C:	6220

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	0	0	20250	0	0	2500	22750	63.1
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	0	15125	0	0	2500	17625	48.9

PANEL ISOCL2C
ISOLATED POWER PANEL (NEW)

VOLTAGE (PRI:)	480	1 PH 2 W	
VOLTAGE (SECONDARY):	120 / 1 PH 2W	MAINS (PRI): / XFMR:	20 MCB / 7.5 KVA
LUGS:	-	FEED:	TOP
AIC RATING:	10K		
MOUNTING:	FLUSH		
ENCLOSURE:	NEMA 1		
REMARKS:	CRITICAL ISOLATED POWER PANEL WITH LINE ISOLATION MONITOR IN DUPLEX ENCLOSURE WITH NORMAL PANEL		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	LINE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/2		RECEPTACLES-BOOM	180	1	L1	2	180	RECEPTACLES-S&E WALLS		20/2
↓	↓	↓	180	↓	L2	↓	180	↓	↓	↓
20/2		RECEPTACLES-BOOM	180	3	L1	4	400	PYXIS STORAGE CABINET		20/2
↓	↓	↓	180	↓	L2	↓	400	↓	↓	↓
20/2		RECEPTACLES-BOOM	180	5	L1	6	400	PYXIS AND MED. DISPOSAL		20/2
↓	↓	↓	180	↓	L2	↓	400	↓	↓	↓
20/2		RECEPTACLES-BOOM	180	7	L1	8	360	RECEPTACLES-NURSE COUNTER		20/2
↓	↓	↓	180	↓	L2	↓	360	↓	↓	↓
20/2		RECEPTS-FLOOR PEDESTAL	180	9	L1	10	200	WALL MONITOR		20/2
↓	↓	↓	180	↓	L2	↓	200	↓	↓	↓
20/2		RECEPTS-FLOOR PEDESTAL	180	11	L1	12	90	PHILIPS AUX 10 BOX		20/2
↓	↓	↓	180	↓	L2	↓	90	↓	↓	↓
20/2		SPARE	0	13	L1	14	60	EXAM LIGHT POWER		20/2
↓	↓	↓	0	↓	L2	↓	60	↓	↓	↓
20/2		SPARE	0	15	L1	16	0	SPARE		20/2
↓	↓	↓	0	↓	L2	↓	0	↓	↓	↓

Connected Load Per Phase	L1:	2770	L2:	2770

	Lighting	HVAC	Motors	Recept.	-	-	Misc	Total VA	Amps
Connected VA	0	0	0	5540	0	0	0	5540	11.5
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	0	5540	0	0	0	5540	11.5

PANEL GNH1
(EXISTING TO REMAIN)

VOLTAGE:	480/277	3 PH 4W	
FEEDER AMP:	100	MAINS:	125 MLO
LUGS:		FEED:	BOTTOM
AIC RATING:	14K		
MOUNTING:	SURFACE		
ENCLOSURE:	NEMA 1		
REMARKS:	NORMAL POWER		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	LTG-GB 208	1500	1	A	2	2200	LTG-GC103	E	20/1
20/1	E	LTG-ANGIO EQPMT AND CTRL RMS	1500	3	B	4	2200	LTG-CORRIDOR GC109	E	20/1
20/1	**R**	**LTG-GC153**	**2204**	**5**	C	6	2200	LTG-GEN RM	E	20/1
20/1	**R**	**LTG-CVU WAIT, LOBBY**	**994**	**7**	A	**8**	**143**	**LTG-CATH LAB**	**R**	**20/1**
20/1	**R**	**LTG-PRE/POST PATIENT ROOMS**	**460**	**9**	B	10	0	SPARE	E	20/1
20/1	**R**	**LTG-PRE/POST STAFF AREAS**	**824**	**11**	C	12	0	SPARE	E	20/1
20/1	**R**	**LTG-PRE/POST STAFF AREAS**	**1498**	**13**	A	14	0	SPARE	E	20/1
20/1	E	LTG-SKYFACTORY PRE/POST	1800	15	B	16	0	SPARE	E	20/1
	E	PREPARED SPACE	0	17	C	18	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	19	A	20	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	21	B	22	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	23	C	24	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	25	A	26	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	27	B	28	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	29	C	30	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	31	A	32	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	33	B	34	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	35	C	36	901	**PANEL 'ISOCL2N'**	**N**	**20/2**
90/3	E	PANEL 'GNL1' VIA EBS-09-37	15300	37	A	38	901	↓	↓	↓
↓	↓	↓	14280	39	B	40	1370	PANEL 'ISOAN1N'	E	20/2
↓	↓	↓	12340	41	C	42	1370	↓	↓	↓

Connected Load Per Phase	PH A:	22536	PH B:	21610	PH C:	19839

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	18523	0	0	44280	0	0	1182	63985	77.0
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	23154	0	0	27140	0	0	1182	51476	61.9

PANEL GNL1 SEC.1
(EXISTING TO REMAIN)

VOLTAGE:	208/120	3 PH 4W	
FEEDER AMP:	150	MAINS:	150 MCB
LUGS:		FEED:	TOP
AIC RATING:	10K		
MOUNTING:	SURFACE		
ENCLOSURE:	NEMA 1		
REMARKS:	NORMAL POWER		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	SPARE	0	1	A	2	0	OIL COOLERS FOR ELEVATOR	E	20/2
20/1	E	LIGHTS ELEC RM 1	1000	3	B	4	0	EQUIPMENT	↓	↓
20/1	E	EXISTING (FIELD VERIFY)	500	5	C	6	0	OIL COOLERS FOR ELEVATOR	E	20/2
20/1	E	EXISTING (FIELD VERIFY)	500	7	A	8	0	EQUIPMENT	↓	↓
20/1	E	REC ED STAFF LOUNGE	1080	9	B	10	540	REC PHYS LOUNGE	E	20/1
20/1	E	REC ED REGISTRATION	0	11	C	12	540	REC ED STAFF LOUNGE	E	20/1
20/1	E	REC SECURITY OFFICE	0	13	A	14	1080	TV REC CVU/FASTTK WAITING	E	20/1
20/1	**R**	**REC CVU ROOM #11**	**900**	**15**	B	16	0	SPARE	E	20/1
20/1	**R**	**REC CVU ROOM #12**	**900**	**17**	C	18	1080	REC FASTTK WAITING RM	E	20/1
20/1	E	REC FAST TRACK LAB	720	19	A	20	720	REC FAST TK RECEPTION	E	20/1
20/1	E	REC ANGIO CONTROL & EQPT RM	800	21	B	22	720	REC FAST TK RECEPTION	E	20/1
20/1	E	REC ANGIO CONTROL & EQPT RM	800	23	C	24	720	REC FAST TK RECEPTION	E	20/1
20/1	E	REC CVU CORR	900	25	A	26	720	REC ED SUPERVISORS OFFICE	E	20/1
20/1	**R**	**REC CVU CORR**	**540**	**27**	B	28	720	REC FAST TRACK RM 1	E	20/1
20/1	E	REC ED RM 13	720	29	C	30	720	REC ED SUPERVISORS OFFICE	E	20/1
20/1	E	REC CVU WAITING	900	31	A	32	720	REC ED RM 4	E	20/1
20/1	**R**	**REC CVU WAITING, CONSULT**	**720**	**33**	B	34	720	REC ED RM 4	E	20/1
20/1	E	REC CVU WAITING HALLWAY	360	35	C	36	720	REC ED RM 4	E	20/1
20/1	E	REC ED RM 21	720	37	A	38	720	REC MEDICINE RM	E	20/1
20/1	E	REC PHYS SLEEP RM	500	39	B	40	180	REC MEDICINE RM	E	20/1
20/1	E	REC PHYS SLEEP RM	500	41	C	42	180	REC MEDICINE RM	E	20/1
		GNL1 SECTION 2 VIA F/T LUGS	7600		A		0			
			5860		B		0			
			4600		C		0			

Connected Load Per Phase	PH A:	15300	PH B:	14280	PH C:	12340

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	1000	0	0	39920	0	0	1000	41920	116.4
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	1250	0	0	24960	0	0	1000	27210	75.5

PANEL GNL1 SEC.2
(EXISTING TO REMAIN)

VOLTAGE:	208/120	3 PH 4W	
FEEDER AMP:	150	MAINS:	225 MLO
LUGS:		FEED:	TOP
AIC RATING:	10K		
MOUNTING:	SURFACE		
ENCLOSURE:	NEMA 1		
REMARKS:	NORMAL POWER		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	REC CVU ROOM #1	720	43	A	44	0	REC GC 101	E	20/1
20/1	E	REC CVU ROOM #2	720	45	B	46	360	REC CHIEFS OFFICE	E	20/1
20/1	E	REC CVU ROOM #3	720	47	C	48	360	REC CHIEFS OFFICE	E	20/1
20/1	E	UH-3 AND RCPT GF120	1200	49	A	**50**	**720**	**REC CATH LAB CONTROL ROOM**	**R**	**20/1**
20/1	E	SIMPLEX CABIN. ABV. DOOR	500	51	B	**52**	**360**	**REC CATH LAB CONTROL ROOM**	**R**	**20/1**
20/1	E	SPARE	0	53	C	**54**	**0**	**SPARE**	**R**	**20/1**
20/1	E	VAV CONTROL PANEL	500	55	A	**56**	**0**	**SPARE**	**R**	**20/1**
20/1	E	SPARE	0	57	B	58	180	OUTLET	E	20/1
20/1	E	REC CVU ROOM #4	720	59	C	60	180	OUTLET	E	20/1
20/1	E	REC CVU ROOM #5	720	61	A	62	180	OUTLET	E	20/1
20/1	E	REC CVU ROOM #6	720	63	B	64	360	REC CVU BREAK ROOM	E	20/1
20/1	E	REC CVU ROOM #7	1040	65	C	66	0	SPARE	E	20/1
20/1	E	REC CVU ROOM #8	1040	67	A	68	540	REC CVU LOCKER ROOM	E	20/1
20/1	E	REC CVU ROOM #9	1040	69	B	**70**	**0**	**SPARE**	**R**	**20/1**
20/1	E	REC CVU ROOM #10	1040	71	C	72	0	PREPARED SPACE		
20/1	E	REC CVU HALLWAY	1080	73	A	74	0	PREPARED SPACE		
20/1	E	REC CVU NURSE STATION	720	75	B	76	0	PREPARED SPACE		
		PREPARED SPACE	0	77	C	78	0	PREPARED SPACE		
20/1	E	REC CVU CLEAN/SOILED UTILITY	900	79	A	80	0	SPARE	E	20/1
20/1	**R**	**REC CVU ROOM #13**	**900**	**81**	B	82	0	SPARE	E	20/1
20/1	E	REC CVU MEDS ROOM	540	83	C	84	0	SPARE	E	20/1

	PH A:	7600	PH B:	5860	PH C:	4600

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	0	0	17060	0	0	1000	18060	50.1
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	0	13530	0	0	1000	14530	40.3

PANEL ISOCL2N
ISOLATED POWER PANEL (NEW)

VOLTAGE (PRI:)	480	1 PH 2 W	
VOLTAGE (SECONDARY):	120 / 1 PH 2W	MAINS (PRI): / XFMR:	20 MCB / 7.5 KVA
LUGS:	-	FEED:	TOP
AIC RATING:	10K		
MOUNTING:	FLUSH		
ENCLOSURE:	NEMA 1		
REMARKS:	NORMAL ISOLATED POWER PANEL WITH LINE ISOLATION MONITOR IN DUPLEX ENCLOSURE WITH CRITICAL PANEL		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	LINE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/2		RECEPTACLES-EAST WALL	90	1	L1	2	180	RECEPTACLES-SOUTH WALL		20/2
↓	↓	↓	90	↓	L2	↓	180	↓	↓	↓
20/2		RECEPTACLES-NORTH WALL	180	3	L1	4	360	RECEPTACLES-NURSE COUNTER		20/2
↓	↓	↓	180	↓	L2	↓	360	↓	↓	↓
20/2		SPARE	0	5	L1	6	91	ANESTHESIA BOOM BRAKE		20/2
↓	↓	↓	0	↓	L2	↓	91	↓	↓	↓
20/2		SPARE	0	7	L1	8	0	SPARE		20/2
↓	↓	↓	0	↓	L2	↓	0	↓	↓	↓
20/2		SPARE	0	9	L1	10	0	SPARE		20/2
↓	↓	↓	0	↓	L2	↓	0	↓	↓	↓
20/2		SPARE	0	11	L1	12	0	SPARE		20/2
↓	↓	↓	0	↓	L2	↓	0	↓	↓	↓
20/2		SPARE	0	13	L1	14	0	SPARE		20/2
↓	↓	↓	0	↓	L2	↓	0	↓	↓	↓
20/2		SPARE	0	15	L1	16	0	SPARE		20/2
↓	↓	↓	0	↓	L2	↓	0	↓	↓	↓

Connected Load Per Phase	L1:	901	L2:	901

	Lighting	HVAC	Motors	Recept.	-	-	Misc	Total VA	Amps
Connected VA	0	0	0	1620	0	0	182	1802	3.8
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	0	1620	0	0	182	1802	3.8

EXISTING PANEL GENERAL NOTES:

1. EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR FIELD OBSERVATION. FIELD VERIFY ALL CIRCUITS.
2. VERIFY CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. TURN SPARE BREAKERS OFF.
3. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN THESE DRAWINGS.
4. REUSE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED; TYPE, VOLTAGE RATING, AND AIC RATING TO MATCH EXISTING.
5. PANEL SCHEDULES REFLECT STATUS AFTER PROPOSED WORK IS COMPLETE, UNLESS NOTED OTHERWISE.
6. BOLD TEXT INDICATES EXISTING CIRCUITS MODIFIED AS PART OF THIS RENOVATION.

PANEL NOTES:

E	-	EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN
G	-	GFI CIRCUIT BREAKER
C#	-	ROUTE CIRCUIT HOMERUN VIA CONTACTOR INDICATED
LO	-	PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER
N	-	NEW BREAKER INSTALLED IN EXISTING PANEL
R	-	REUSE EXISTING BREAKER IN EXISITNG PANEL WITH NEW LOAD
ST	-	SHUNT TRIP CIRCUIT BREAKER
SUB	-	SUB-FEED CIRCUIT BREAKER

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PROJECT INFORMATION

Project Number: R25.18089.00

Client Name: UNC HEALTH WAYNE

Project Name: CATH LAB RENOVATION

Project Address: 2700 WAYNE MEMORIAL DRIVE GOLDSBORO, NC 27533

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued	Scale
11/14/2025	AS INDICATED
Project Status: FINAL CONSTRUCTION DRAWINGS	
Drawn By: RHV	Checked By: SLE
Drawing Title: ELECTRICAL PANEL SCHEDULES	

Drawing Number: E900

11/14/2025 10:01:03 AM PROJECT FILES ON ACC

PANEL UPSCL2C (NEW)

VOLTAGE:	208/120	1 PH 3W	AIC RATING:	10K	REMARKS:		
FEEDER AMP:	60	MAINS:	60 MCB	MOUNTING:	SURFACE	CRITICAL POWER	FED FROM UPS
LUGS:		FEED:	BOTTOM	ENCLOSURE:	NEMA 1		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1		REC CATH LAB CONTROL ROOM	720	1	A	2	900	REC CATH LAB CONTROL ROOM		20/1
20/1		REC CATH LAB CONTROL ROOM	720	3	B	4	0	SPARE		20/1
20/1		SPARE	0	5	A	6	0	SPARE		20/1
		PREPARED SPACE	0	7	B	8	0	PREPARED SPACE		
		PREPARED SPACE	0	9	A	10	0	PREPARED SPACE		
		PREPARED SPACE	0	11	B	12	0	PREPARED SPACE		
		Connected Load Per Phase	PH A:	1620	PH B:	720				

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	0	0	2340	0	0	0	2340	11.3
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	0	0	2340	0	0	0	2340	11.3

PANEL CH4A SEC 1 (EXISTING)

VOLTAGE:	480/277	3 PH 4W	AIC RATING:	35K	REMARKS:		
FEEDER AMP:	800	MAINS:	800 MCB	MOUNTING:	SURFACE	CRITICAL BRANCH; FED FROM ATS 4-2	
LUGS:		FEED:	BOTTOM	ENCLOSURE:	NEMA 1		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
1200	E	SUB-FEED LUGS TO 'CH4A' SEC.2	139077		A	2	1000	CANOPY LIGHTS MAIN ENTRANCE	E	20/1
↓	↓	↓	136981		B	4	1000	SITE LIGHTING	E	20/1
↓	↓	↓	124905		C	6	1000	CANOPY LIGHTS AT AMBULANCE	E	20/1
↓	↓	↓	0		A	8	1000	LIGHTS MINOR TRTMNT ROOMS	E	20/1
↓	↓	↓	0		B	10	1000	LIGHTS MINOR TRTMNT ROOMS	E	20/1
↓	↓	↓	0		C	12	1000	LIGHTS MINOR TRTNT RMS E-LTS	E	20/1
20/1	E	SPARE	0	1	A	14	1000	LIGHTS THIS AREA AND SEC E-LTS	E	20/1
20/1	E	LIGHTS IN TRIAGE & VERT TRT	1000	3	B	16	1000	SITE LIGHTING	R	20/1
20/1	E	LIGHTS BEHAVIOR AND GYN AREA	1000	5	C	18	1000	SITE MONUMENT SIGN LIGHTING	E	20/1
20/1	E	LIGHTS IN MAJOR TRTMNT ROOMS	1000	7	A	20	0	SPARE	E	20/1
20/1	E	LIGHTS IN TRAUMA ROOMS E-LTS	1000	9	B	22	800	HOT BOX HEATER & SUMP PUMP ED	E	20/2
20/1	E	LIGHTS IN MAJOR TRTMNT NURSE WK	1000	11	C	24	800	↓	↓	↓
20/2	E	ISO 1	3750	13	A	26	19260	PANEL CL4B	E	150/3
↓	↓	↓	3750	15	B	28	15140	↓	↓	↓
20/2	E	ISO 3	3750	17	C	30	18060	↓	↓	↓
↓	↓	↓	3750	19	A	32	0	SURGE ARRESTOR	E	60/3
20/2	E	ISO 2	3750	21	B	34	0	↓	↓	↓
↓	↓	↓	3750	23	C	36	0	↓	↓	↓
20/2	E	ISO 4	3750	25	A	38	0	↓	↓	↓
↓	↓	↓	3750	27	B	40	0	↓	↓	↓
400/3	E	SPARE	0	29	C	42	0	↓	↓	↓
↓	↓	↓	0	31	A	44	0	↓	↓	↓
↓	↓	↓	0	33	B	46	0	↓	↓	↓
↓	↓	↓	0		C	48	0	↓	↓	↓
		Connected Load Per Phase	PH A:	173587	PH B:	169171	PH C:	156265		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	66186	0	1200	239016	0	5000	187621	499023	600.2
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	82732	0	1200	124508	0	5000	187621	401061	482.4

PANEL CH4A SEC 2 (EXISTING)

VOLTAGE:	480/277	3 PH 4W	AIC RATING:	35K	REMARKS:		
FEEDER AMP:	800	MAINS:	800 MLO	MOUNTING:	SURFACE	CRITICAL BRANCH; FED FROM CH4A SEC 1	
LUGS:		FEED:	TOP	ENCLOSURE:	NEMA 1		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
150/3	E	PANEL 2CH1	23016	43	A	44	21636	PANEL 3CH1	E	225/3
↓	↓	↓	18141	45	B	46	28050	↓	↓	↓
↓	↓	↓	18141	47	C	48	17990	↓	↓	↓
90/3	E	PAC UPS	10000	49	A	50	2659	LIGHTS	E	20/1
↓	↓	↓	10000	51	B	52	0	PREPARED SPACE	E	
↓	↓	↓	10000	53	C	54	0	PREPARED SPACE	E	
125/3	E	ANGIO CB	19390	55	A	56	19283	PANEL 'GCH4C' ED BHU	E,ETU	150/3
↓	↓	↓	19390	57	B	58	18288	↓ 150AS/150AT,LI	↓	↓
↓	↓	↓	19390	59	C	60	15072	↓	↓	↓
60/3	E	ANGIO CB2	8333	61	A	62	0	PREPARED SPACE	E	
↓	↓	↓	8333	63	B	64	0	PREPARED SPACE	E	
↓	↓	↓	8333	65	C	66	0	PREPARED SPACE	E	
125/3	**N**	**CATH LAB CB2**	**17459**	**67**	A	68	0	PREPARED SPACE	E	
↓	↓	↓	**17459**	**69**	B	70	0	PREPARED SPACE	E	
↓	↓	↓	**17459**	**71**	C	72	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	73	A	74	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	75	B	76	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	77	C	78	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	79	A	80	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	81	B	82	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	83	C	84	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	85	A	86	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	87	B	88	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	89	C	90	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	91	A	92	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	93	B	94	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	95	C	96	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	97	A	98	17300	FEED TO XFMR CX (CL4A)	E	100/3
	E	PREPARED SPACE	0	99	B	100	17320	↓	↓	↓
	E	PREPARED SPACE	0	101	C	102	18520	↓	↓	↓
		Connected Load Per Phase	PH A:	139077	PH B:	136981	PH C:	124905		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	51786	0	0	157056	0	5000	187121	400963	482.3
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	64732	0	0	83528	0	5000	187121	340381	409.4

PANEL LL4A (EXISTING)

VOLTAGE:	208/120	3 PH 4W	AIC RATING:	EXISTING	REMARKS:		
FEEDER AMP:	60	MAINS:	60 MCB	MOUNTING:	SURFACE	LIFE SAFETY BRANCH	
LUGS:		FEED:	BOTTOM	ENCLOSURE:	NEMA 1		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
15/1	E	MED GAS ALARM PANELS (ED)	500	1	A	2	500	FACP NODE 8	E,LO	20/1
20/1	E	AMBULANCE BAY AUTO DOORS	500	3	B	4	500	SECURITY PANELS	E,LO	20/1
20/1	E,LO	SPARE	0	5	C	6	1500	LTS ED VEST	E	20/1
20/1	E,LO	SPARE	0	7	A	8	500	CRAWL SPACE DAMPERS	E	20/1
20/1	E	CVU AUTO DOORS	1000	9	B	10	500	1ST FLOOR DAMPERS (ED)	E	20/1
20/1	E,LO	SPARE	0	11	C	12	0	SPARE	E,LO	20/1
20/1	**R**	**CVU MED GAS ALARM PANELS**	**600**	**13**	A	14	300	ED DOOR POWER	E	20/1
20/1	E,LO	SPARE	0	15	B	16	500	ED ENTRANCE DOOR	E	20/1
20/1	E,LO	SPARE	0	17	C	18	500	ED ENTRANCE DOOR	E	20/1
20/1	E	DOOR PANEL	300	19	A	20	0	SPARE	E	20/1
20/1	E,LO	SPARE	0	21	B	22	0	SPARE	E	20/1
20/1	E,LO	SPARE	0	23	C	24	0	PREPARED SPACE	E	
20/1	E,LO	SPARE	0	25	A	26	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	27	B	28	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	29	C	30	0	PREPARED SPACE	E	
		Connected Load Per Phase	PH A:	2700	PH B:	3000	PH C:	2000		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	1000	0	0	0	0	0	6700	7700	21.4
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	1250	0	0	0	0	0	6700	7950	22.1

PANEL QH4B (EXISTING)

VOLTAGE:	480/277	3 PH 4W	AIC RATING:	35K	REMARKS:		
FEEDER AMP:	400	MAINS:	400 MCB	MOUNTING:	SURFACE	EQUIPMENT BRANCH; FED FROM ATS 4-3	
LUGS:		FEED:	BOTTOM	ENCLOSURE:	NEMA 1		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	SPARE	0	1	A	2	1500	ENTRY VEST UNIT HEATER	E	20/1
20/1	E	SPARE	0	3	B	4	0	SPARE	E	20/1
20/1	E	SPARE	0	5	C	6	0	SPARE	E	20/1
50/3	E	CRU-1 IN IT ROOM	8781	7	A	8	0	SPARE		100/3
↓	↓	↓	8781	9	B	10	0	↓	↓	↓
↓	↓	↓	8781	11	C	12	0	↓	↓	↓
15/3	E	CRAC-1 CONDENSER	1440	13	A	14	0	SPARE		100/3
↓	↓	↓	1440	15	B	16	0	↓	↓	↓
↓	↓	↓	1440	17	C	18	0	↓	↓	↓
20/1	E	SPARE	0	19	A	20	0	SPARE		100/3
20/1	E	SPARE	0	21	B	22	0	↓	↓	↓
20/1	E	SPARE	0	23	C	24	0	↓	↓	↓
45/3	**N**	**CATH LAB RTU-40**	**9339**	**25**	A	**26**	**2000**	**CATH LAB HUM-1**	**N**	**15/3**
↓	↓	↓	**9339**	**27**	B	**28**	**2000**	↓	↓	↓
↓	↓	↓	**9339**	**29**	C	**30**	**2000**	↓	↓	↓
		PREPARED SPACE	0	31	A	32	0	SURGE ARRESTOR		60/3
		PREPARED SPACE	0	33	B	34	0	↓	↓	↓
		PREPARED SPACE	0	35	C	36	0	↓	↓	↓
		PREPARED SPACE	0	37	A	38	0	UNUSABLE SPACE		
		PREPARED SPACE	0	39	B	40	0	UNUSABLE SPACE		
		PREPARED SPACE	0	41	C	42	0	UNUSABLE SPACE		
150/3	SUB	PANEL QL4B	15130	43	A		0	PREPARED SPACE	SUB	
↓	↓	↓	16880	45	B		0	↓	↓	↓
↓	↓	↓	15980	47	C		0	↓	↓	↓
		Connected Load Per Phase	PH A:	38190	PH B:	38440	PH C:	37540		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	66680	8580	18060	0	6500	14350	114170	137.3
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	66680	8580	14030	0	6500	14350	110140	132.5

PANEL QL4B SEC.1 (EXISTING)

VOLTAGE:	208/120	3 PH 4W	AIC RATING:	10K	REMARKS:		
FEEDER AMP:	225	MAINS:	225 MCB	MOUNTING:	SURFACE	EQUIPMENT BRANCH	
LUGS:		FEED:	BOTTOM	ENCLOSURE:	NEMA 1		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	WARMING CAB MINOR WORK AREA	1200	1	A	2	500	AHU CONTROLS AHU-28	E	20/1
20/1	E,G	WARMING CAB MAJOR WORK	1200	3	B	4	500	AHU CONTROLS AHU-28	E	20/1
20/1	E	CHEM FEED PUMP	500	5	C	6	500	AHU CONTROLS AHU-28	E	20/1
20/1	E	WATER HEATERS IN PENTHOUSE	1000	7	A	8	500	RECIRC PUMP IN PENTHOUSE	E	20/1
20/1	E,LO	SPARE TO STAIRWELL	0	9	B	10	0	SPARE IN PENTHOUSE	E,LO	20/1
20/1	E	OUTSIDE MACHINE ED	500	11	C	12	600	RECS ON ROOF	E	20/1
20/1	E,LO	SPARE	0	13	A	14	500	EXHAUST FAN ON ROOF	E	20/1
20/1	E	EXHAUST FAN ON ROOF	700	15	B	16	600	RECS IN CRAWL SPACE	E	20/1
20/1	E	EXHAUST FAN IN PENTHOUSE	1000	17	C	18	500	ERV CONTROLS TRANSMITTER	E	20/1
20/1	E	REC IN SPRINKLER ROOM	180	19	A	20	500	ERV CONTROLS RECEPTACLE	E	20/1
20/1	E	FAN COIL UNIT 1	1000	21	B	22	500	ERV CONTROLS LIGHTS	E,G	20/1
20/1	E	FAN COIL UNIT 2	1000	23	C	24	500	AHU CONTROLS	E	20/1
20/1	E,G	WATER COOLER OUTSIDE	500	25	A	26	500	PENTHOUSE CONTROL PANEL	E	20/1
20/1	E	DRY PIPE COMPRESSOR	1200	27	B	**28**	**1000**	**AUTO-DOORS ANGIO & CATH LAB**	**R**	**20/1**
20/1	E,G	REC IN VENDING	1200	29	C	30	1200	REC IN VENDING	E,G	20/1
20/1	E,G	REC IN VENDING	1200	31	A	**32**	**150**	**RTU-40 HEAT TRACE**	**R**	**20/1**
20/1	E,G	REC IN VENDING	1200	33	B	34	700	EXHAUST FAN	E	20/1
20/1	E	SUMP PUMP-CRAWLSPACE	1000	35	C	36	1500	MICROWV-CVU BREAK ROOM	E	20/1
20/1	**R**	**CATH LAB RTU-40 CONTROL PWR**	**500**	**37**	A	38	1500	COFFEE-CVU BREAK ROOM	E	20/1
20/1	E	SUMP PUMP-CRAWLSPACE	1000	39	B	40	1200	REFRIG-CVU BREAK ROOM	E	20/1
20/1	**R**	**REC ROOF BY RTU-40**	**180**	**41**	C	42	300	ANGIO VAVS	E	20/1
		QL4B SECTION 2 VIA F/T LUGS	6400		A		0			
			6080		B		0			
			5500		C		0			
		Connected Load Per Phase	PH A:	15130	PH B:	16880	PH C:	15980		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	2000	8580	18060	0	6500	12850	47990	133.2
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00		
Demand VA	0	2000	8580	14030	0	6500	12850	43960	122.0

PANEL QL4B SEC.2 (EXISTING)

VOLTAGE:	208/120	3 PH 4W	AIC RATING:	10K	REMARKS:		
FEEDER AMP:	225	MAINS:	225 MLO	MOUNTING:	SURFACE	EQUIPMENT BRANCH	
LUGS:		FEED:	TOP	ENCLOSURE:	NEMA 1		

BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	E	FLOOR RECPTS IN LOBBY	600	43	A	44	500	AUTO DOORS BY VENDING	E	20/1
20/1	E	SPARE	0	45	B	46	1500	MICROWV IN HOSP POLICE	E,G	20/1
20/1	E	AUTO DOORS BY TRIAGE	500	47	C	48	1000	UC REFRIG IN HOSP POLICE	E,G	20/1
20/1	E	HVAC GLOBAL PANEL	500	49	A	50	500	AUTO DOOR BY VENDING	E	20/1
20/1	E	HVAC GLOBAL PANEL	500	51	B	52	1200	PROJECTION SCREEN CONF	E	20/1
20/1	E	HVAC GLOBAL PANEL	500	53	C	54	1200	ICE MACHINE CONF RM	E,G	20/1
20/1	E	CVU HVAC CONTROLS	300	55	A	56	1500	COFFEE MAKER CONF RM	E,G	20/1
20/1	E,LO	SPARE	0	57	B	58	1500	MICROWV CONF RM	E,G	20/1
20/1	**R**	**SPARE**	**0**	**59**	C	60	1000	REFRIG CONF RM	E,G	20/1
20/1	E	AUTO DOOR AT LOBBY	500	61	A	62	500	AUTO DRS AT EDUCATION OFF	E	20/1
20/1	E	REC IN HOUSEKEEPING	180	63	B	64	500	AUTO DRS BY CRITICAL ELEC RM	E	20/1
20/1	E	CVU HVAC CONTROLS	500	65	C	66	0	PREPARED SPACE	E	
20/1	E	AHU-14 REC	500	67	A	68	1000	REC IN CONF RM	E	20/1
20/1	E	AHU-14 UV LITES	500	69	B	70	0	PREPARED SPACE	E	
20/1	E	AHU-14 CONTROLS	600	71	C	72	0	PREPARED SPACE	E	
20/1	E	SPARE	0	73	A	74	0	PREPARED SPACE	E	
20/1	E	AHU-14 LITES	200	75	B	76	0	PREPARED SPACE	E	
20/1	E	AHU-14 REC	200	77	C	78	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	79	A	80	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	81	B	82	0	PREPARED SPACE	E	
	E	PREPARED SPACE	0	83	C	84	0	PREPARED SPACE	E	
		Connected Load Per Phase	PH A:	6400	PH B:	6080	PH C:	5500		

	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA	0	0	0	4780	0	6500	6700	17980	49.9
Demand Factor	1.25	1.00	1.00	NEC	1.00	0.65	1.00		
Demand VA	0	0	0	4780	0	4225	6700	15705	43.6

EXISTING PANEL GENERAL NOTES:

1. EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR FIELD OBSERVATION. FIELD VERIFY ALL CIRCUITS.
2. VERIFY CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. TURN SPARE BREAKERS OFF.
3. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN THESE DRAWINGS.
4. REUSE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED; TYPE, VOLTAGE RATING, AND AIC RATING TO MATCH EXISTING.
5. PANEL SCHEDULES REFLECT STATUS AFTER PROPOSED WORK IS COMPLETE, UNLESS NOTED OTHERWISE.
6. BOLD TEXT INDICATES EXISTING CIRCUITS MODIFIED AS PART OF THIS RENOVATION.

PANEL NOTES:

E	-	EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN
G	-	GFI CIRCUIT BREAKER
C#	-	ROUTE CIRCUIT HOMERUN VIA CONTACTOR INDICATED
LO	-	PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER
N	-	NEW BREAKER INSTALLED IN EXISTING PANEL
R	-	REUSE EXISTING BREAKER IN EXISITNG PANEL WITH NEW LOAD
ST	-	SHUNT TRIP CIRCUIT BREAKER
SUB	-	SUB-FEED CIRCUIT BREAKER

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DeVita & Associates, Inc. Project: 25558-01
NC Firm License # C-0819

PROJECT INFORMATION

Project Number: R25.18089.00

Client Name: **UNC HEALTH WAYNE**

Project Name: **CATH LAB RENOVATION**

Project Address: 2700 WAYNE MEMORIAL DRIVE GOLDSBORO, NC 27533

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued: 11/14/2025
Scale: AS INDICATED
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: RHV
Checked By: SLE
Drawing Title: ELECTRICAL PANEL SCHEDULES
Drawing Number: E901

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www.healthcare.philips.com

Wayne Memorial Hospital Inc

Goldsboro, NC

Pre-Order Site Preparation Support Document

The equipment components shown in this drawing package are based on the current proposed equipment configuration and are subject to change if modifications are made to the configuration at the time of final equipment purchase.

*Photo shown is not site specific.

Table of Contents

Sheet Number	Sheet Name
CS	COVER SHEET
GN	GENERAL NOTES
A1	ARCHITECTURAL PLANS
AD1	EQUIPMENT DETAILS
AD2	EQUIPMENT DETAILS
S1	STRUCTURAL PLANS
S2	STRUCTURAL PLANS
SD	STRUCTURAL DETAILS
E1	ELECTRICAL PLANS
ED	ELECTRICAL DETAILS
NN	NETWORK NOTES
R	REFERENCE 11x17

Important Note:

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Philips assumes no liability nor offers any warranty for the fitness or adequacy of the premises or the utilities available at the premises in which the equipment is to be installed, used, or stored.

For Architects and/or Contractors: The latest revision listed must be thoroughly reviewed so that all changes can be incorporated into your project, final revisions are valid for 90 days from latest revision date. Please check with Philips PM for current updates.

Rev.	Date	Revision Descriptions	Planner	CPM	Approved By
-	6/25/2025	Created a Preliminary Site Preparation Support Document per Quote #: Q-00530357.	Pablo Arosemena	William Haynes	
A	8/8/2025	Created Pre-Order Site Preparation Support Document with Quote #: Q-00530357. Updated background per file: "UNC Wayne A200 - GROUND FLOOR NEW WORK PLAN - OVERALL".	Pablo Arosemena	William Haynes	
B	10/7/2025	Updated background per file: "UNCHW CATH LAB_A700A-2 - EQUIPMENT PLAN- AREA A VENDOR". Updated Isocenter per request. Updated per new Quote #: Q-00598724.	Pablo Arosemena	William Haynes	

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Goldsboro, NC
PROVISIONAL

Drawing Title
COVER SHEET
THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 696-1259
Email: william.haynes@philips.com

Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

CS

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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
Date Description

PROFESSIONAL STAMPS

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Issued
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Checked By
CPL
Drawing Title
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Drawing Number
-
PHILIPS-CS

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HVAC Requirement for General Equipment Locations

These temperature and humidity levels must be maintained in all (3) rooms (equipment, examination and control rooms).

Temperature	59°F (15°C) to 86°F (30°C)
Temperature gradient	Max. 1°F / Minute (0.5°C / Minute)
Humidity (non-condensing) Humidity shall be stable within 10%	20% to 80%
Exam Room	*4433 BTU/hr
Equipment Room	*8184 BTU/hr
Control Room	*1876 BTU/hr

***Average heat emission during clinical use**
Data applicable for basic system:
Large monitor + 4 x small monitor in Monitor Ceiling Suspension
1 workstation + 2 x small monitor in Control Room

Add 8750 BTU/hr for optional Socomec UPS
Add 1075 BTU/hr for additional large monitor
Add 256 BTU/hr for additional small monitor
Add 631 BTU/hr for additional workstation
See AD details for additional heat load in case of UPS.

Equipment's designed airflow is from front/side to back. Please design the air handling in the rack cabinet equipment area accordingly.

Philips IGT-S systems may only be operated at an altitude of max. 9,843 ft (3,000m) above sea level as defined in our instructions for use (IFU).

(25.0)

Electrical Requirements Mains MA Cabinet

Maximum Rated Power: 100kW

Supply Configuration: 3 phase, equally sized insulated power conductors and an insulated equipment grounding conductor. Insulated grounding conductor shall have the same or larger size than line conductors. Line wires shall be no smaller than 4 AWG, 90°C or higher temperature rating. The conductor size is dependant on the upstream circuit breaker rating:

Nominal Line Voltage: 380 (Canada) - 480 VAC, 60 Hz

Branch Power Requirement: 100 kVA (System only; verify UPS power requirements)

System Circuit Breaker: 3 phase, Type D with long-time delay and shunt trip

System Circuit Breaker: 80A rating.
UPS breaker: 125A-150A, pending configuration.

(24.1)

Remote Control of Room Lighting

Room lighting controls are the responsibility of the customer. Refer to sheet 3-ED for X-ray in use and room light switching requirements.

(25.0)

Milestone and General Conditions for Successful IGT Projects

1. **Planning, Design, and Implementation Process**
   The multidisciplinary project team should be assembled as early as possible in the design process. The multidisciplinary team should include administrators, clinicians, infection preventionists, architects and other design professionals, facility managers, safety officers, security managers, users of equipment, and support staff relevant to the areas affected by the project as well as those with knowledge of the organization's functional goal for the project. Inclusion of patient advocates/consumers, A/E consultants, and construction specialists should be considered. FGI (Facility Guidelines Institute) 2022 APPENDIX A1.2-1.2. **(www.fgiguidelines.org)** (Architect Responsible for ADA compliance.)

2. **Schedule**
   The customer or general contractor shall provide Philips with a project/construction schedule with milestones to assist in the coordination of delivery of Philips supplied products and primary equipment. Project schedule must be provided by customer to obtain production slot and delivery.

3. **Responsibility**
   The customer shall be solely responsible, at their expense for preparation of site. Philips required specifications and any required MEP, construction and structural alterations shall be incorporated into customer's design and construction documents. Compliance with all safety, electrical, and building design codes relevant to the build out of the clinical area for Philips equipment and its installation is the customer's responsibility. Sufficiency of such plans and specifications, specifically including, but not limited to the accuracy of the dimensions described therein, shall be the sole responsibility of the customer. The customer shall advise Philips of conditions at or near the site, which could adversely affect the function of the equipment and/or carrying out of the delivery and installation work.

   a. **Customer's structural engineer shall provide Philips with written certification that structural supports meet Philips requirements to permit delivery and installation of equipment.**

   b. **Customer shall acknowledge the final site preparation confirmation document.**

   c. **Upon completion of project, Customer's Architect and Engineers of record shall provide a set of As-Built project construction documents (.dwg) to Philips for closure of the Philips project history file.**

   This shall ensure that such conditions are compliant and that the site is fully prepared and available for Philips before the installation work is due to begin.

4. **Permits**
   Customer shall obtain all permits and licenses required by federal, state/provincial or local authorities in connection with the construction, installation and operation of the products and shall bear any expense in obtaining same or in complying with any related rules, regulations, ordinances and statutes.

5. **Infection Control and Interim Life Safety Measure**
   The customer shall provide all means and methods necessary for compliance with Infection Control (IC) and Interim Life Safety Measures (ILSM) in connection with the construction and installation/operation of the products shown herein and shall bear any expenses related to same.

6. **Radiation Protection**
   The customer or their contractor, at their own expense, shall obtain the service of a licensed radiation physicist to specify radiation protection and testing.

7. **Asbestos and Other Toxic Substances**
   Philips assumes that there is no hazardous material contained in the project site. The customer is responsible for the removal of any materials, including but not limited to asbestos, deemed hazardous by local authorities, the EPA, OSHA, or any other authority having jurisdiction over the work. If such materials are discovered at any time that the work is proceeding, the work will immediately cease, the owner will be notified, and the work will again proceed after the owner has removed all of the hazardous material from the job site.

8. **Labor**
   In the event local labor conditions make it impossible or undesirable to use Philips' regular employees for such installation and connection, such work shall be performed by laborers supplied by the customer, or by an independent contractor chosen by the customer at the customer's expense, and in such case, Philips agrees to furnish adequate technical support and supervision for proper completion for the Philips equipment installation.

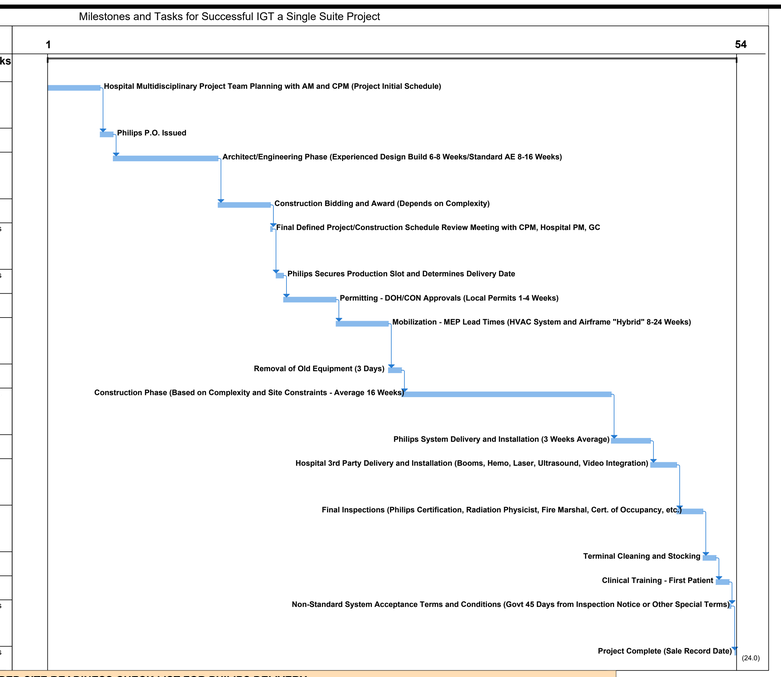
9. **Extended Installation or Turnkey Work by Philips**
   If an extended installation or turnkey contract exists between Philips and the customer for room preparation some of the responsibilities of the customer as depicted in these drawings may be assumed by Philips. In the event of a conflict between the work described in the turnkey contract work scope and these drawings, the turnkey contract work scope shall govern.

10. **Boom Vendors/3rd party cables**
    Separation of cables shall be provided by boom vendor for the installation of cables within the boom. For example, use of liquid-tight plastic conduit.

(24.0)

Milestones and Tasks for Successful IGT a Single Suite Project

ID	Task Name	Duration
1	**IGT Single Suite Project**	**52.4 wks**
2	Hospital Multidisciplinary Project Team Planning with AM and CPM (Project Initial Schedule)	4 wks
3	Philips P.O. Issued	1 wk
4	Architect/Engineering Phase (Experienced Design Build 6-8 Weeks/Standard AE 8-16 Weeks)	8 wks
5	Construction Bidding and Award (Depends on Complexity)	4 wks
6	Final Defined Project/Construction Schedule Review Meeting with CPM, Hospital PM, GC	0.2 wks
7	Philips Secures Production Slot and Determines Delivery Date	0.8 wks
8	Permitting - DOH/CON Approvals (Local Permits 1-4 Weeks)	4 wks
9	Mobilization - MEP Lead Times (HVAC System and Airframe "Hybrid" 8-24 Weeks)	4 wks
10	Removal of Old Equipment (3 Days)	1 wk
11	Construction Phase (Based on Complexity and Site Constraints - Average 16 Weeks)	16 wks
12	Philips System Delivery and Installation (3 Weeks Average)	3 wks
13	Hospital 3rd Party Delivery and Installation (Booms, Hemo, Laser, Ultrasound, Video Integration)	2 wks
14	Final Inspections (Philips Certification, Radiation Physicist, Fire Marshal, Cert. of Occupancy, etc.)	2 wks
15	Terminal Cleaning and Stocking	1 wk
16	Clinical Training - First Patient	1 wk
17	Non-Standard System Acceptance Terms and Conditions (Govt 45 Days from Inspection Notice or Other Special Terms)	0.2 wks
18	Project Complete (Sale Record Date)	0.2 wks



(24.0)

REQUIRED SITE READINESS CHECK LIST FOR PHILIPS DELIVERY

(25.0)

Items to be completed Prior to Equipment Delivery:	Inspected by:	Date:	Common Site Drawing Reference: Sheet/Section/Detail
Table Iso Center: Verified per Philips Final Drawings.			1-A1,2-A1.
Floor Levelness: Checked with Laser Level.			1-S1, S1/Equipment Support Information.
Floor Plates: Installed, isolated, and leveled at the correct locations.			1-S1, 2-S1, 3-S1, S1/Equipment Support Information.
Ceiling Unistruts (P1001): Installed and leveled per Sheet with written engineer certification.			2-S2, 4-S2, 6-S2, S2/Equipment Support Information.
Modular Laminar Array with Unistruts (P1001) installed and level per sheet if Class 3 required.			4-S2, S2/Equipment Support Information.
Ceiling Plate for Equipment Rack (EP Boom) (if applicable): Installed and leveled.			
Cable Trough/Raceway/Conduit: A Greenlee measuring tape (part no. 435) are Installed, verified and locations checked.			E1/Point to Point Run Lengths, 1-E1,4-E1.
3rd Party Booms (if applicable): Structural support installed and verified with boom vendor and locations.			
Ceiling Height: Verified and measure from bottom of Unistrut.			3-S2, 4-S2.
Verify the Fixing Blocks sits properly in the Unistrut channel with no obstructions.			4-S2,1-S2.
Ceiling Obstructions: Verify there are no obstructions where Philips rails will be installed.			1-S2, 3-S2.
Clearances: Verified to the closest obstacles (i.e. walls, cabinets), in order to lift up the C-arm, monitor support, etc.			1-AD1.
Back Boxes: Installed with required covers and grommet material.			1-E1, 4-ED, 5-ED.
ERB Conductor Bar Installed per drawing.			1-E1,2-E1.
All electrical boxes and raceway are grounded to the ERB.			1-ED, 2-ED, 5-ED.
Mains Power Supply: Installed per drawing (Including impedance, isolated grounds, wire size and circuit breakers verified).			ED/Power Quality Requirements (Azurion), ED/Branch Circuit and Wire Gauge Requirement (Azurion).
Mains Supply Wiring installed for connection in Cabinet Rear Cover (CRC) of MA-Cabinet.			5-ED.
Video Connection Boxes: video sources, and display destinations are verified with customer and located.			A1/AUX Chart.
Med Gas Box (if applicable): Location does not interfere with the installation and movement of table.			3-S1.
Walls: Installed and final finished per customers architectural specifications.			
Millwork: Completely installed in all rooms.			
Leaded glass installed.			
Flooring: Installed and covered with protective covering (1/8" masonite).			S1/Equipment Support Information.
Lighting and Wall Outlets Installed and functional.			ED/General Electrical Information.
HVAC system is operational and commissioned to engineered specifications.			GN/HVAC Requirement for General Equipment Locations.
3rd Party Booms (if applicable): Installed prior to Philips equipment delivery.			
UPS: Fully installed per Philips Final Drawings, and startup has been scheduled with vendor.			5-ED.
X-Ray in Use Light is installed.			3-ED.
Physicist: If required has been scheduled.			
UPS: Commissioned and certified by UPS vendor.			
Permits Inspections: Completed or scheduled by applicable governing authorities.			
All network information provided by facility IT, i.e. IP addresses (static IPs only), AE Titles, SNM, GTWY and DNS server are available.			NN.
Project Space: Is clean, free of dust, all construction-related debris and tools have been removed.			
PPE requirements identified (Construction and Hospital). No open electrical or hazardous materials on site.			GN/Milestone and General Conditions for Successful IGT project.
Site Access Is available for after hours. Storage for tools, parts, covers and packing material has been arranged.			
Room is secure with keys provided.			
Complete Delivery Path Route and backup for bad weather has been reviewed & reverfied with the customer and lead FSE.			

INSPECTIONS

(24.0)

	Inspected by:	Date:
Facilities:		
Clinical:		
Infectious Control:		
Architect:		
Engineer:		
Administrator:		
Project Manager:		
Sales Specialist:		
Account Manager:		
Service:		

AVO NAMING

Line Item	Corresponding Naming
FCV0972 (powered by system, in control room)	AVOC
FCV0973 (powered by system, in exam room)	AVOE
FCVO974 (powered by hospital)	AVOX
FCV0975 (4K AVO)	AVOK
FCV0976 (XL)	AVOL
Integration Kits	AVOB
FlexVision Non-Philips Frame	AVOM

PHILIPS

Wayne Memorial Hospital Inc
Goldsboro, NC
PROVISIONAL

Drawing Title
GENERAL NOTES
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Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com

Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-005987724
Order: None

GN

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3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION
Issued: 11/14/2025
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Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: PHILIPS (FOR REFERENCE ONLY)
Drawing Number: -

PHILIPS-GN

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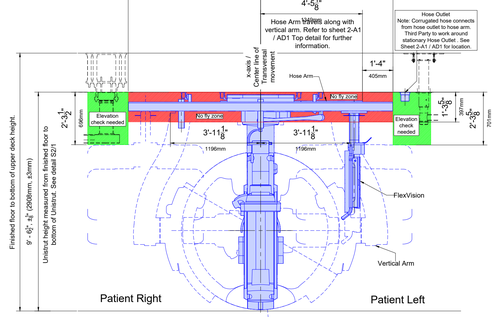


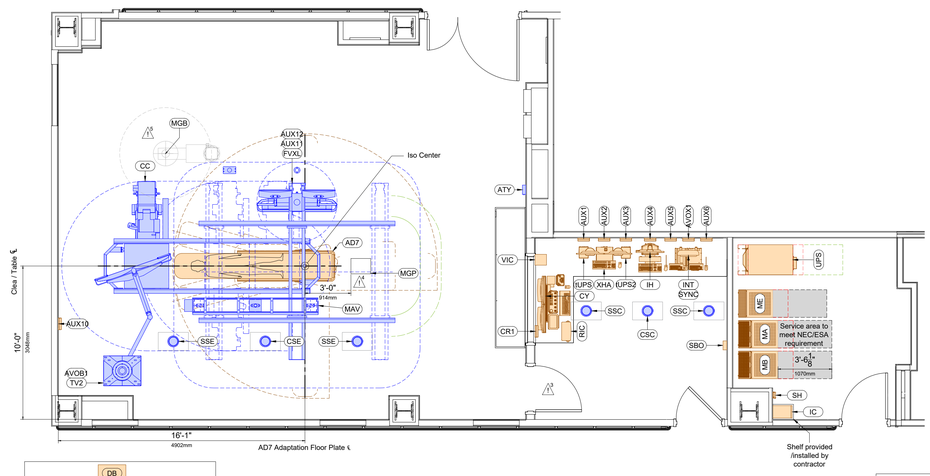
3 / A1 ELEVATION (Not Site Specific)

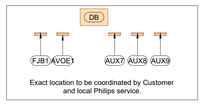
SCALE: 1/4" = 1' - 0"

(25.0)

Legend

- Table Movement
- Ceiling Equipment Movement
- Table Pinch Hazard
- Service Area
- Required Ventilation





Exact location to be coordinated by Customer and local Philips service.

2 / A1 EQUIPMENT LAYOUT

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

Required Unistrut Height: 9' - 6 1/2", ±1/8" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

Important Notes:

* Architect to coordinate with end users/technicians to determine final placement of control desk components prior to installation in order to avoid rework. Architect to coordinate with Philips Project Manager to reflect final placement on Philips drawings.

	Source	Location	Displayed
AUX1	XHA	Control	FlexVision
AUX2	TBD	Control	FlexVision
AUX3	TBD	Control	FlexVision
AUX4	IH	Control	FlexVision
AUX5	INT	Control	FlexVision
AUX6	SYNC	Control	FlexVision
AUX7	TBD	TBD	FlexVision
AUX8	TBD	TBD	FlexVision
AUX9	TBD	TBD	FlexVision
AUX10	TBD	Exam	FlexVision
AUX11	TBD	Exam	FlexVision
AUX12	TBD	Exam	FlexVision

	Source	Location	Displayed
AVOE1	MB	TBD	TBD
AVOB1	MB	Exam	TV2

Planning Issues and Considerations

1. Conduit run(s) from SP to MA and ME must be able to take the most direct route. (Maximum distance point to point = 42' / 42')
2. Verify quantity and designation of Video Cloning with local Philips Service.
3. Recommended that the control room door open into the exam room.
4. Med Gas Pedestal may present a tripping hazard. Verify with customer requirement.
5. Boom layout shown is based on a reference design. Final boom placement to be discussed between customer and 3rd Party Vendor.

Equipment Legend

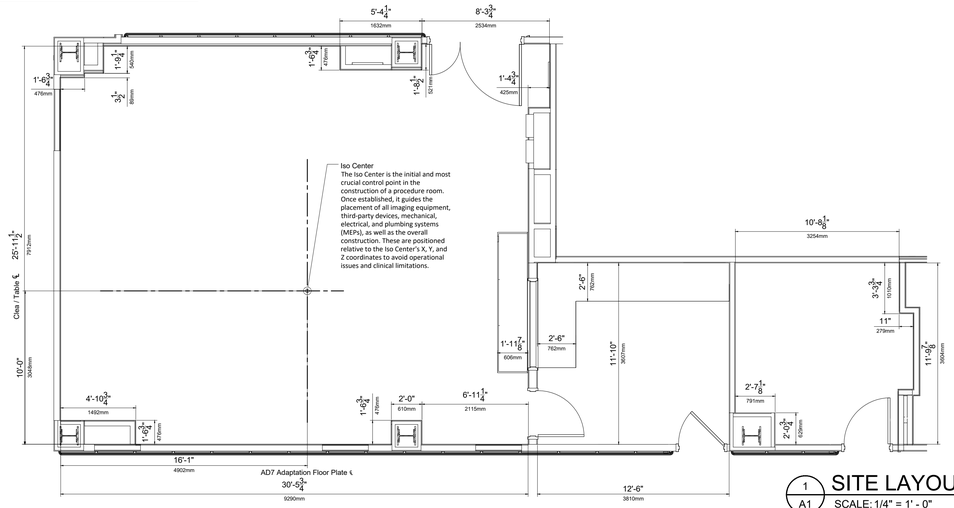
A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional
H Existing to be Moved
I Furnished by Philips and installed by Philips 3rd Party

	Equipment Designation	Description	Weight (lbs)	Weight (kg)	Detail Sheet
A	CC	Clea Ceiling	2557	1160	AD1
A	AD7	Angio Diagnost 7 Premium Table w/ Pivot	992	450	AD1
A	ME	Certeray iX Generator Cabinet	320	145	AD1
A	MA	Mains 40E Cabinet	717	325	AD1
A	MB	Image 40E Cabinet	497	225	AD1
A	DB	Documentation Box - Mounted on Wheels (Final location to be coordinated with customer and/or local Philips Service)	176	80	AD1
A	ATY	Exam Room Auxiliary Box	7	3	AD1
A	CY	Control Room Junction Box	73	33	AD2
A	SH	Service Hub	7	3	AD2
A	CR1	Control Room Equipment Adapter	4	2	AD2
D	UPS	Socomec - Low Load Fluoro (LLF) UPS	1873	850	AD1
D	SBO	Signaling Box Option	6.7	3	AD1
A	FVXL	55" FlexVision XL + (2) 27" LCD Monitor Suspension	607	276	AD1
A	AUX1 ~	Auxiliary Equipment Adapter	4	2	AD2
A	AUX12	Auxiliary Equipment Adapter	4	2	AD2
A	IH	Interventional Hardware	73	33	AD2
A	INT	IntraSight- Workstation	83	38	AD2
A	SYNC	SyncVision	71	32	AD2
A	VOX1	Auxiliary Video Output (For SyncVision)	4	2	AD2
A	VOE1	Auxiliary Video Output (Powered by MB)	4	2	AD2
A	FJB1	Flex Junction Box	3	2	AD2
A	MAV	Mavig 2.5m Ceiling Track 360 w/ Rad Shield and Y LED 1F Surgical Light	167	75.9	AD2
A	IC	Injector Room Console	11	4.9	AD2
A	RIC	Injector Remote Panel	7	3	AD2
A	INJ	Medrad Universal T-Rail Bracket for Injector Head (Not shown on plan)	-	-	-
D	VIC	Vitalinq Intercom Console	8	3.6	AD2
D	SSE	Stereo Speaker - Exam Room (QTY: 2)	2.5	1.1	-
D	SSC	Stereo Speaker - Control Room (QTY: 2)	2.5	1.1	-
D	CSE	Communication Speaker - Exam Room	2.5	1.1	-
D	CSC	Communication Speaker - Control Room	2.5	1.1	-
A	XHA	Xper Hemo App	-	-	-
A	iUPS	Tripp Lite UPS	-	-	-
A	iUPS2	Tripp Lite UPS 2	-	-	-
A	IX3	Intellivue X3 Device (to be table mounted; not shown on plan)	-	-	-
D	TV2	Monitor Suspension GD50 - (2) 27"/32" Monitors	423	192	AD2
A	AVOB1	Auxiliary Video Output (Boom Mounted)	4	2	AD2
		Items not on Philips Quote/Order			
B	MGP	Med Gas Pedestal	-	-	-
B	MGB	Med Gas Boom	-	-	-

*Final Weight for XHA / iUPS / iUPS2 / IX3 to be verified

Legend

- Walls
- Soffit
- Existing (to be removed)
- Beams or other building construction elements



1 / A1 SITE LAYOUT

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

Required Unistrut Height: 9' - 6 1/2", ±1/8" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

Important Notes:

* Field to verify all room dimensions by customer and Philips

PHILIPS

Wayne Memorial Hospital Inc
Goldsboro, NC
PROVISIONAL

ARCHITECTURAL PLANS

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Drawing Title

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com

Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

A1

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03.31.2025

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com

NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CON Number
P-12569-24

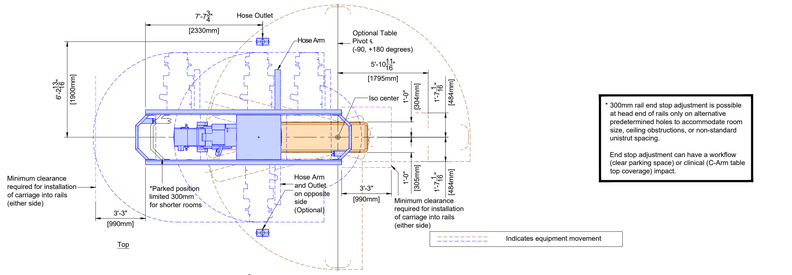
PROJECT ISSUE & REVISION SCHEDULE
Date Description

PROFESSIONAL STAMPS

SHEET INFORMATION
Issued: 11/14/2025
Scale:
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: PHILIPS (FOR REFERENCE ONLY)
Drawing Number: -

PHILIPS-A1

11/12/2025 11:28:13 AM PROJECT FILES ON ACC



* 300mm rail end stop adjustment is possible at head end of rails only on alternative predetermined holes to accommodate room size, ceiling obstructions, or non-standard unistrut spacing.

End stop adjustment can have a workflow (clear parking space) or clinical (C-Arm table top coverage) impact.

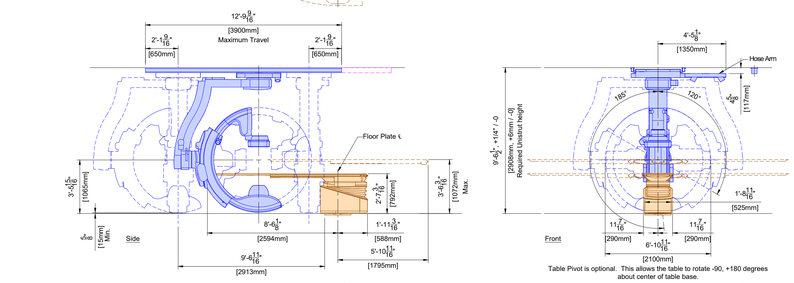
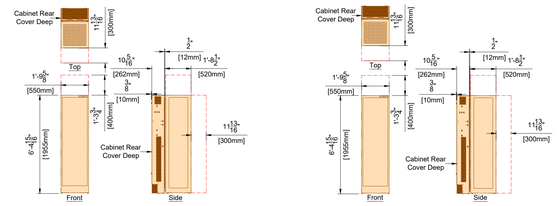


Table Pivot is optional. This allows the table to rotate -90, +180 degrees about center of table base.

	Clea Ceiling (25.0)
CC	Weight 2557 lbs

	Angio Diagnost 7 (25.0)
AD7	Weight 992 lbs

1 AD1 SYSTEM DETAIL
SCALE: N.T.S.

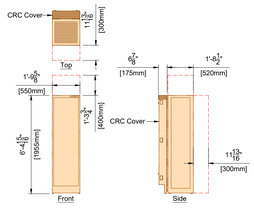


	Mains 40E Cabinet (24.0)
MA	Weight 717 lbs

Notes:
* Required ventilation for the front - 11 13/16" (300mm)
* Required ventilation for the top - 1'-3 3/4" (400mm)
* The CRC Cover must be attached to the back box.
* Acoustic noise level: <= 55 dB(A) @ 1 meter in front of the rack and 1 meter high (1 meter = 39.37")

	Image 40E Cabinet (24.0)
MB	Weight 497 lbs

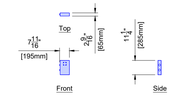
Notes:
* Required ventilation for the front - 11 13/16" (300mm)
* Required ventilation for the top - 1'-3 3/4" (400mm)
* The CRC Cover must be attached to the back box.
* Acoustic noise level: <= 48 dB(A) @ 1 meter in front of the rack and 1 meter high (1 meter = 39.37")



	Certeray iX Generator 40E Cabinet (24.0)
ME	Weight 320 lbs

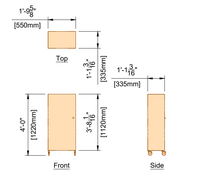
Notes:
* Required ventilation for the front - 11 13/16" (300mm)
* Required ventilation for the top - 1'-3 3/4" (400mm)
* The CRC Cover must be attached to the back box.
* Acoustic noise level: <= 55 dB(A) @ 1 meter in front of the rack and 1 meter high (1 meter = 39.37")

2 AD1 SYSTEM CABINET DETAILS
SCALE: N.T.S.



	Auxiliary Box (23.0)
ATY	Weight 7 lbs

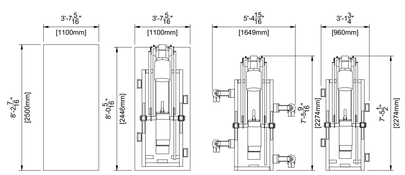
3 AD1 AUXILIARY BOX DETAIL
SCALE: N.T.S.



	Documentation Box (23.0)
DB	Weight 176 lbs

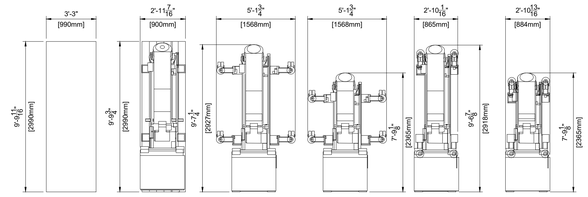
4 AD1 DOCUMENTATION BOX DETAIL
SCALE: N.T.S.

Detail - Clea Ceiling (C-ARM) Transport Details



Transport Possibilities				
	Crate	Pallet	Kick Wheels Wide	Kick Wheels Small
Height	77.95" (1980mm)	76.22" (1936mm)	69.02" (1753mm)	77.76" (1975mm)
Weight	2050 lbs (930 kg)	1940 lbs (880 kg)	2061 lbs (935 kg)	1764 lbs (800 kg)

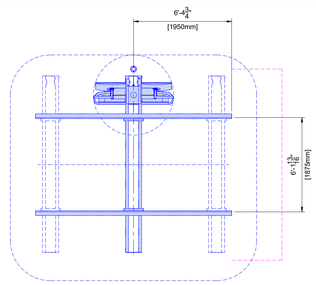
Detail - Clea Ceiling (L-ARM) Transport Details



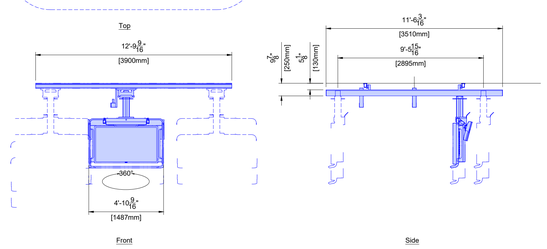
Transport Possibilities						
	Crate	Pallet	Klick Wheels Wide	Klick Wheels Wide Elevator	Klick Wheels Small	Klick Wheels Small Elevator
Height	57.09" (1450mm)	54.80" (1392mm)	49.25" (1251mm)	79.53" (2020mm)	49.25" (1251mm)	79.53" (2020mm)
Weight	2094 lbs (950 kg)	1973 lbs (895 kg)	1896 lbs (860 kg)	1896 lbs (860 kg)	1896 lbs (860 kg)	1896 lbs (860 kg)

(24.0)

5 AD1 TRANSPORT DETAILS
SCALE: N.T.S.



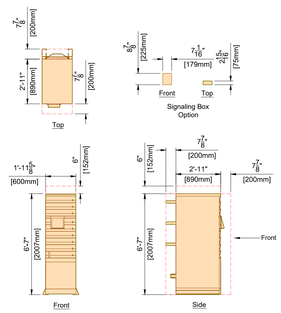
Bearing Forces:
(Tension) Tmax = 661 lbs/support
(Shear) Vmax = 150 lbs/support



For swing labs, 2700mm long ceiling rails are delivered. Maximum longitudinal column travel = 2100mm.
Weight shown is total weight including monitors, suspension, cabling, and options.

	55" + (2) 27" LCD Monitor Suspension (25.0)
FVXL	Weight 607 lbs

6 AD1 MONITOR SUSPENSION DETAIL
SCALE: N.T.S.



UPS Cabinet

	Socomec - Low Load Fluoro (LLF) UPS (22.1)	
	Weight	Heat Dissipation
UPS	1873 lbs	8750 BTU/hr
SBO	6.7 lbs	- BTU/hr

Notes:
* Required ventilation for the front - 7 7/8" (200mm)
* Required ventilation for the rear - 7 7/8" (200mm)
* Required ventilation for the top - 6" (155mm)
* Acoustic noise level: <= 58 dB(A) @ 1 meter in front of the rack and 1 meter high (1 meter = 39.37")

7 AD1 SOCOMEC LLF UPS DETAIL
SCALE: N.T.S.

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PHILIPS

Wayne Memorial Hospital Inc
Goldsboro, NC
PROVISIONAL

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Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com

Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

AD1

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
Date Description

PROFESSIONAL STAMPS

SHEET INFORMATION
Issued: 11/14/2025
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Drawn By: CPL
Checked By: CPL
Drawing Title: PHILIPS (FOR REFERENCE ONLY)
Drawing Number
-
PHILIPS-AD1

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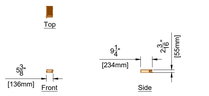
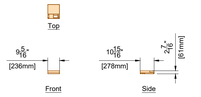


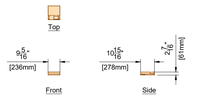
	Service Hub (23.0)
SH	Weight 7 lbs

1 AD2 SERVICE HUB
SCALE: N.T.S.



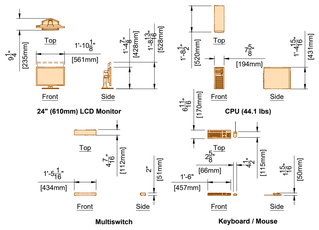
	Control Room Equipment Adapter (23.0)
CR1	Weight 4 lbs

2 AD2 CONTROL ROOM EQUIPMENT ADAPTER
SCALE: N.T.S.



	Auxiliary Equipment Adapter (23.0)
AUX1 - AUX12	Weight 4 lbs

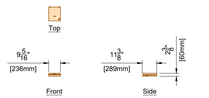
3 AD2 AUXILIARY EQUIPMENT ADAPTER
SCALE: N.T.S.



Weight shown is for all components.

	Interventional Hardware (23.0)
IH	Weight 73 lbs

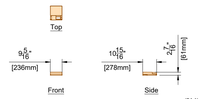
4 AD2 INTERVENTIONAL HARDWARE DETAIL
SCALE: N.T.S.



	Flex Junction Box (23.0)
FJB1	Weight 3 lbs

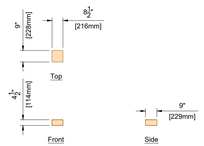
5 AD2 FLEX JUNCTION BOX DETAIL
SCALE: N.T.S.

Applicable for all types of AVOs
(AVOC / AVOE / AVOX / AVOK / AVOL / AVOB / AVOM)



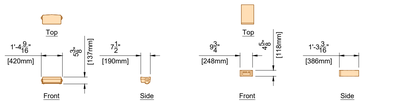
	Auxiliary Video Output (24.1)
AVOX1	Weight 4 lbs
AVOE1	Auxiliary Video Output (Powered by MB) Weight 4 lbs
AVOB1	Auxiliary Video Output (Boom Mounted) Weight 4 lbs

6 AD2 AUXILIARY VIDEO OUTPUT DETAIL
SCALE: N.T.S.



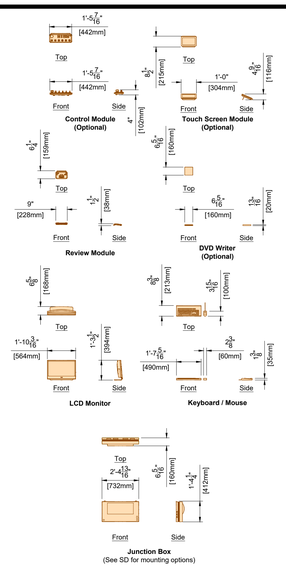
	Vitalinq Intercom Console (25.0)
VIC	Weight 8 lbs (3.6 kg)

7 AD2 Vitalinq Intercom Console Detail
SCALE: N.T.S.



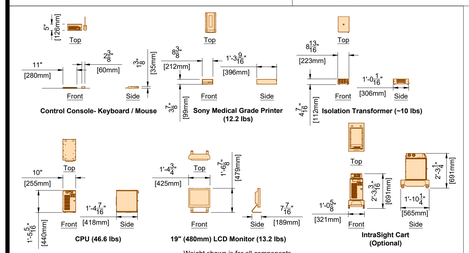
	Injector Remote Panel (24.0)	Injector Room Console (24.0)
	RIC	IC
	Weight 7 lbs	Weight 11 lbs

10 AD2 TABLE MOUNT INJECTOR, REMOTE PANEL AND CONSOLE
SCALE: N.T.S.



	Control Room Junction Box (All Components) (24.0)
CY	Weight 73 lbs

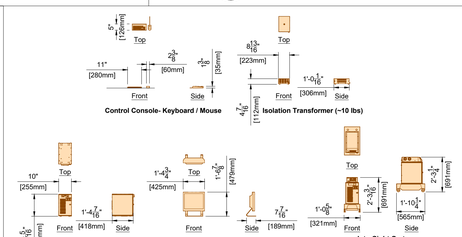
11 AD2 CONTROL ROOM JUNCTION BOX DETAIL
SCALE: N.T.S.



Weight shown is for all components.

	IntraSight - Workstation (24.0)
INT	Weight 83 lbs

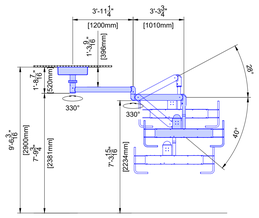
8 AD2 INTRASIGHT - WORKSTATION DETAIL
SCALE: N.T.S.



Weight shown is for all components.

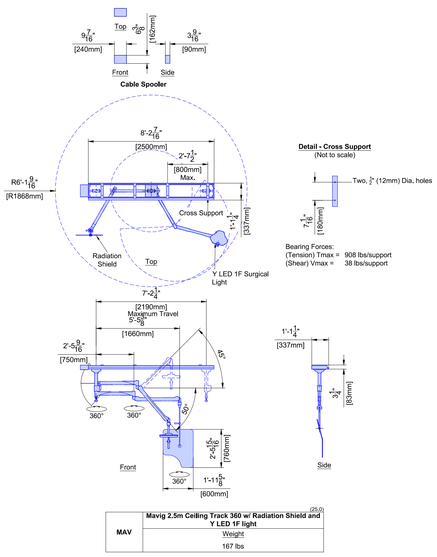
	SyncVision (24.0)
SYNC	Weight 71 lbs

9 AD2 SYNCVISION DETAIL
SCALE: N.T.S.



	Monitor Suspension GD50 (2) 27"/32" Monitors (24.0)
TV2	Weight 423 lbs

13 AD2 MONITOR SUSPENSION GD50 DETAIL
SCALE: N.T.S.



	Mavig 2.5m Ceiling Track 360 w/ Radiation Shield and Y LED 1F light (25.0)
MAV	Weight 167 lbs

12 AD2 MAVIG 2.5m CEILING TRACK DETAIL
SCALE: N.T.S.

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PHILIPS

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Goldsboro, NC
PROVISIONAL

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Azurion 7 C20
Wayne Memorial Hospital Inc
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Room: GC119

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com

Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

AD2

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
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Project Name
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2700 WAYNE MEMORIAL DRIVE
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P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION
Issued: 11/14/2025
Scale:
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: PHILIPS (FOR REFERENCE ONLY)
Drawing Number: -

PHILIPS-AD2

11/12/2025 11:28:14 AM PROJECT FILES ON ACC

Equipment Support Information

1. General
The customer shall be solely responsible, at its expense, for preparation of the site, including any required structural alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and building codes. The customer shall be solely responsible for obtaining all construction permits from jurisdictional authority.

Customer's structural engineer shall provide Philips with written certification that structural supports meet Philips requirements to permit delivery and installation of equipment. Upon completion of project, Customer's Architect and Engineers of record shall provide a set of As-Built project construction documents (dwg) to Philips for closure of the Philips project history file.

2. Equipment Anchorage
Philips provides, with this plan and specifications, information relative to equipment size, weight, shape, anchoring hole locations and forces which may be exerted on anchoring fasteners. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of equipment anchoring to floors, wall and/or ceiling of the building. Any anchorage test required by local authority shall be the customer's responsibility. Stud type anchor bolts should not be specified as they hinder equipment removal for service. Consult with Philips service prior to specifying anchor methods. Philips equipment must be electrically isolated from anchorage.

3. Floor Loading and Surface
Philips provides, with this plan and specifications, information relative to size, weight and shape of floor mounted equipment. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings confirmation of the structural adequacy of the floor upon which the equipment will be placed. Any load test required by local authority, shall be the customer's responsibility.
The floor surface/base plates upon which Philips equipment is to be located shall be flat and level to within 0.05 degrees.

4. Seismic Anchorage (For Seismic Zones Only)
All seismic anchorage hardware, including brackets, backing plates, bolts, etc., shall be supplied and installed by the customer/contractor unless otherwise specified within the support legend on this sheet. Installation of electronic cabinets to meet seismic anchorage requirements must be accomplished using flush mounted expansion type anchor/bolt systems to facilitate the removal of a cabinet for maintenance. Do not use threaded rod/adhesive anchor systems. Philips equipment must be electrically isolated from anchorage. Seismic anchoring information and planning modifications are available upon request. Architect of Record to determine seismic planning needed for site. Consult with Philips regarding any anchor system issues.

5. Floor Obstructions/ Floor Coverings
There shall be no obstructions on the floor (sliding door tracks, etc.) within the serviceability area of the Philips technical cabinets. Floor must be clear to allow cabinets to be pulled away from the wall for service. Technical equipment room floor shall be commercial grade "VCT" Vinyl Composition Tile or a flooring material of equal hardness and compression resistance.

(25.0)

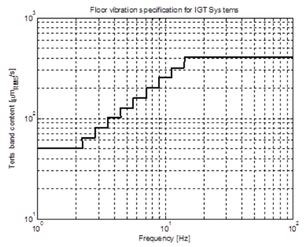
Equipment Support Information

11. Requirements for External Vibration
The maximum allowed external vibration level of floors and ceilings, to which the equipment is mounted that will not adversely affect the image quality, is specified in terms of RMS velocity levels in 1/3-octave or terts bands, as follows:

Center frequency [Hz]	1	1.25	1.6	2	2.5	3.15	4	5	6.3	8
Terts band value [µm/s] (RMS)	50.8	50.8	50.8	50.8	63.5	80.01	101.6	127	160	203.2
Center frequency [Hz]	10	12.5	16	20	25	31.5	40	50	63	80
Terts band value [µm/s] (RMS)	254	317.5	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4
Center frequency [Hz]	100	125	160	200						
Terts band value [µm/s] (RMS)	406.4	406.4	406.4	406.4						

Terts Band Specification for External Vibrations

A graphical representation of this specification is given below:



Terts Band Specification for External Vibrations

Terts band spectra shall be calculated on the basis of time traces with a duration of 10 minutes (600 seconds), taken at representative locations and during representative times during working days.

(21.1)

Important Notes:
1. Anchors for items that are installed/anchored by customer/contractor shall be provided by customer/contractor.
2. Anchors for items that are installed/anchored by Philips shall be provided by Philips. If customer's engineering documents specify anchors other than those listed in this document, the anchors shall be provided by customer/contractor and installed by Philips.
3. In all instances, the wall and/or floor support are the sole responsibility of the customer/contractor. The customer's architect/engineer of record shall specify wall and/or floor support sufficient for the bolt forces shown on the details.

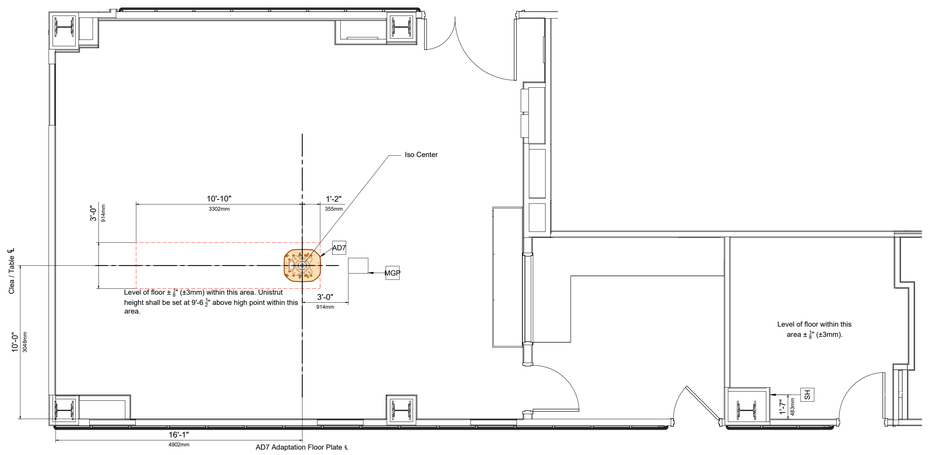
Floor & Wall Support Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional
H Furnished by Philips and installed by Third Party

	Item Number	Description	Detail Sheet
D	AD7	AD7 Adaptation Floor Plate	S1/3
B	SH	Service Hub	SD/3
B	MGP	Med Gas Pedestal	-

Important Notes:

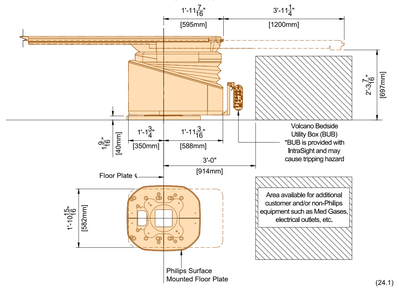
* The Iso Center is the initial and most crucial control point in the construction of a procedure room. Once established, it guides the placement of all imaging equipment, third-party devices, mechanical, electrical, and plumbing systems (MEPs), as well as the overall construction. These are positioned relative to the Iso Center's X, Y, and Z coordinates to avoid operational issues and clinical limitations.



1 / S1 FLOOR & WALL SUPPORT LAYOUT
SCALE: 1/4" = 1'-0"
Required Unistrut Height: 9' - 6 1/2", ± 1/8" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

SURFACE MOUNT FLOOR PLATE

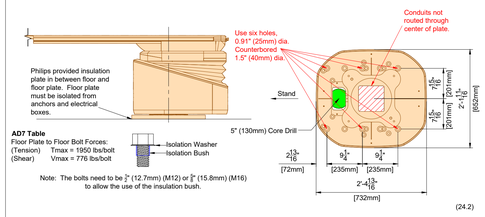
Detail - AD7 Table, Fixed/Pivot Base - Clearance Area
(Not to scale)



(24.1)

2 / S1 AD7 ADAPTATION PLATE - SURFACE TABLE CLEARANCE DETAIL
SCALE: N.T.S.

1. 1.5748" (40mm) thick floor plate, surface mounted with top of slab.
2. Level within 1/16" (1.5mm) across surface of plate.
3. Anchor bolts with washer must not protrude above surface of floor plate. DO NOT GRIND DOWN THE NUT
4. Floor plate must be isolated from facility. Isolation materials, such as electrical isolated sleeve washers with shoulders, are to be provided by the contractor.



(24.2)

3 / S1 AD7 ADAPTATION PLATE - SURFACE MOUNT INSTALLATION DETAIL
SCALE: N.T.S.

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03.31.2025

PHILIPS

Wayne Memorial Hospital Inc
Goldsboro, NC
PROVISIONAL

Drawing Title
STRUCTURAL PLANS
THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com

Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

S1

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CDH Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
Date Description

PROFESSIONAL STAMPS

SHEET INFORMATION
Issued: 11/14/2025
Scale:
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: PHILIPS (FOR REFERENCE ONLY)
Drawing Number: -

PHILIPS-S1

11/13/2025 11:28:14 AM PROJECT FILES ON ACC

Equipment Support Information

1. General
The customer shall be solely responsible, at its expense, for preparation of the site, including any required structural alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and building codes. The customer shall be solely responsible for obtaining all construction permits from jurisdictional authority.

Customer's structural engineer shall provide Philips with written certification that structural supports meet Philips requirements to permit delivery and installation of equipment. Upon completion of project, Customer's Architect and Engineers of record shall provide a set of As-Built project construction documents [.dwg] to Philips for closure of the Philips project history file.

2. Equipment Anchorage
Philips provides, with this plan and specifications, information relative to equipment size, weight, shape, anchoring hole locations and forces which may be exerted on anchoring fasteners. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of equipment anchoring to floors, wall and/or ceiling of the building. Any anchorage test required by local authority shall be the customer's responsibility. Stud type anchor bolts should not be specified as they hinder equipment removal for service. Consult with Philips service prior to specifying anchor methods. Philips equipment must be electrically isolated from anchorage.

3. Ceiling Support Apparatus
a. Philips provides, with this plan and specifications, information relative to size, weight and shape of ceiling supported equipment. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of structural support apparatus, fasteners and anchorage to which Philips will attach equipment. Any anchorage and/or load test required by local authority shall be the customer's responsibility. Philips equipment must be electrically isolated from anchorage.

b. Contractor to clearly mark Philips equipment longitudinal centerline on bottom of each Unistrut support.

c. The structural Unistrut surface to which Philips equipment is to be attached, shall have horizontal equipment attachment surfaces parallel, square and level to within .236" (6mm) per entire span.

d. Any drilling and/or tapping of holes required to attach Philips equipment to the structural support apparatus shall be the responsibility of the customer.

4. Lighting
Luminaires shall be placed in such a position that they are not obscured by equipment or its movement, nor shall they interfere with Philips ceiling rails and equipment movement or otherwise adversely affect the equipment. Such luminaire locations shall be the sole responsibility of the customer.

5. Ceiling Obstructions
There shall be no obstructions that project below the finished ceiling in the area covered by ceiling suspended equipment travel. See detail 1/S2.

6. Safety Factors
Ceiling loads as mentioned in the PRD are worst case loads and excluding safety factors. Proper safety factors need to be applied by Design Professional/Engineer of Record. (24.0)

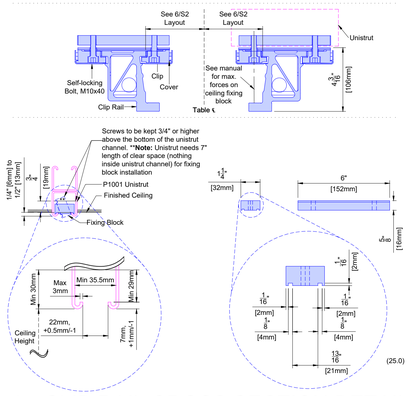
Detail - Philips Fixing Block for Philips Ceiling Rails (Clip Rails)
(Not to scale)

General Requirements:
1. Philips does not specify the overhead equipment support structure. Unistrut may or may not be used. If Unistrut are used, it is up to Unistrut and the structural engineer for the project to determine which of its products are appropriate for each project.
2. P1001 Unistrut is specified for the ceiling rail connection point.

Finished Ceiling Requirements:
1. Finished ceiling height shall be $\frac{1}{4}$" (6mm) to $\frac{1}{2}$" (13mm) above bottom of Unistrut.

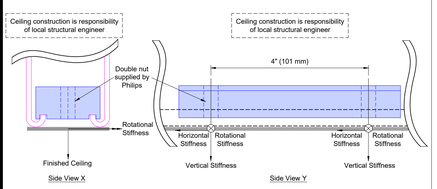
Fixing Block Installation Requirements:
1. Nothing shall be attached to the Unistrut with any fastener that protrudes into the Unistrut which would interfere with positioning of the fixing block.
2. Fixing blocks for Philips ceiling rails (Clip rails) are designed to be installed in P1001Unistrut.
3. The inside of the Unistrut must be clear of obstructions.

Unistrut Requirements:
1. Welding Unistrut may warp Unistrut and deteriorate the structural integrity of the Unistrut. Consult the Structural Engineer of Record prior to welding any Unistrut.
2. If third-party structural laminar modular array vendors are to be used, please contact site planning.
3. For third-party structural laminar modular array vendors, the minimum rail fixing block Unistrut length must be 7-5/8" (194mm).



(25.0)

4 S2 CLIP RAIL CROSS SECTION DETAIL
SCALE: N.T.S.



Stiffness Requirements of Ceiling:
1. Horizontal Stiffness: preferred 10,000,000 Newton/meter - 57.1 kib/in, minimal 6,000,000 Newton/meter - 34.2 kib/in
2. Vertical Stiffness: preferred 10,000,000 Newton/meter - 57.1 kib/in, minimal 6,000,000 Newton/meter - 34.2 kib/in
3. Rotation Stiffness: minimal 100,000 Newtonmeter/Rad - 885 (kib in)/Rad
4. Ceiling interface stiffness requirements at each ceiling connection point

For Clea Stand (1160 kg or 11600 N): the maximum allowed deflection of the ceiling and/or floor construction is 1.93 mm.

(24.0)

7 S2 CLIP RAIL STIFFNESS DETAIL
SCALE: N.T.S.

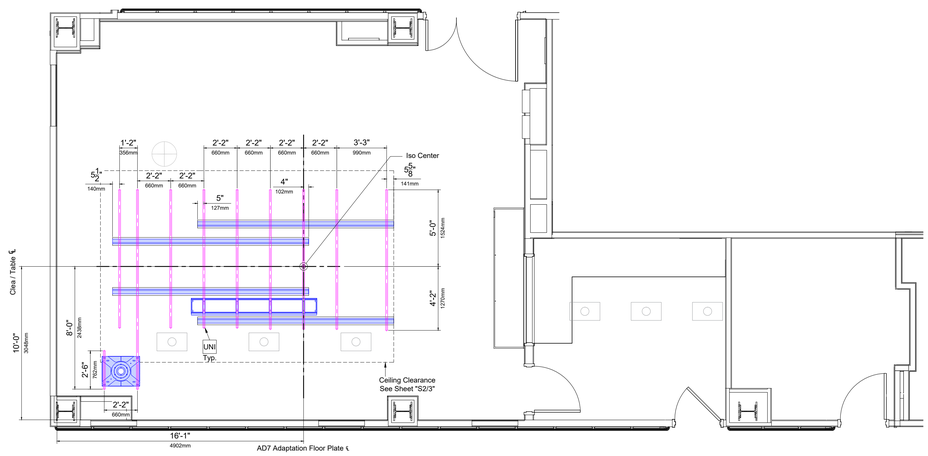
Ceiling Support Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional
H Furnished by Philips and installed by Third Party

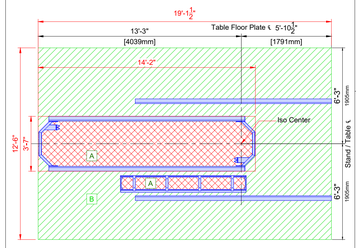
	Item Number	Description	Detail Sheet
A	CR	2 - Philips Clea Rails	S2
A	MSR	2 - Philips Monitor Suspension Rails	S2
B	UNI	Unistrut (P1000/P1001 in meeting Philips ceiling requirements, geometry of channel and geometry of fixing block) - Bottom of Unistrut 1/4" (6mm) to 1/2" (13mm) Below Finished Ceiling	S2
A	MAV	Mavig 2.5m Ceiling Track 360	AD2
D	SPK	Speaker Ceiling Support Plate - Cannot extend past any tile edges if present. Should have a 6 $\frac{5}{8}$" (168mm) diameter cut out for speaker. (QTY: 6)	SD
H	TV2	Mavig GD50 Ceiling Plate	SD2

Important Notes:
* The Iso Center is the initial and most crucial control point in the construction of a procedure room. Once established, it guides the placement of all imaging equipment, third-party devices, mechanical, electrical, and plumbing systems (MEPs), as well as the overall construction. These are positioned relative to the Iso Center's X, Y, and Z coordinates to avoid operational issues and clinical limitations.
* All Unistruts are to be true and square to the edge of the floor plate.

Planning Issues and Considerations
⚠ For Vitalinq Speakers - Speaker Ceiling Support Plates are shown for standard planning. Confirm ceiling state in field and whether support plates are required. Refer to SD for mounting details.



2 S2 CEILING SUPPORT LAYOUT - UNISTRUT ⚠
SCALE: 1/4" = 1'-0"
Required Unistrut Height: 9' - $6\frac{1}{2}$" - $\pm\frac{1}{8}$" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

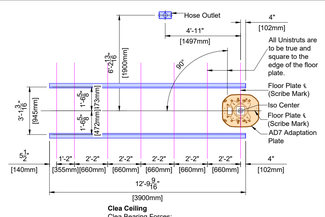


A No objects that project below finished ceiling are allowed in this area (lights, smoke detectors, sprinkler heads, etc).

B No objects that project more than 4.5" (115mm) below finished ceiling are allowed in this area (lights, smoke detectors, sprinkler heads, soffit, etc).

(25.0)

3 S2 RESTRICTED AREA DETAIL
SCALE: N.T.S.

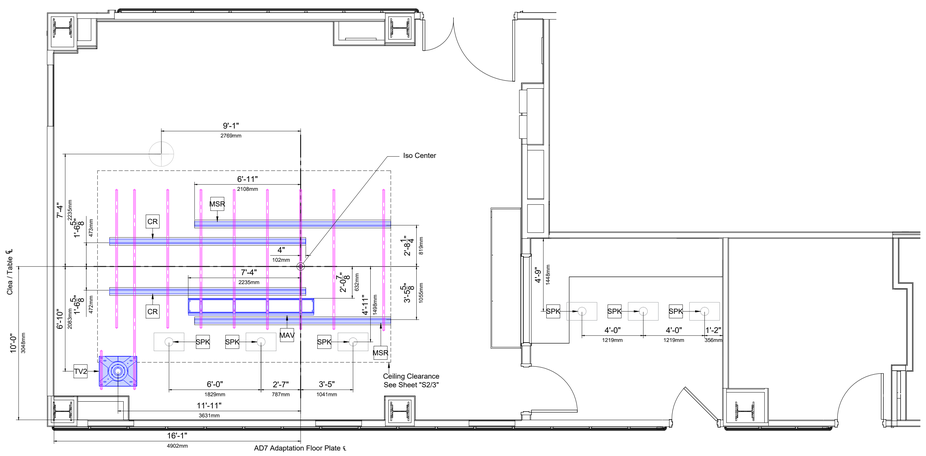


Clea Ceiling
Clea Bearing Forces:
(Tension) Tmax = 2931 lbs/fixing block
(Shear) Vmax = 1227 lbs/fixing block

Note:
1. The bearing force shown for the Clea is the maximum instantaneous equipment bearing load. This force can occur at two locations (each fixing block) simultaneously on the same Unistrut (or equal) rail.
2. If seismic forces must be considered, please refer to the seismic calculation sheets provided by Philips for the specific system components.
3. 27" (685mm) maximum allowed distance between unistrut. 5-7/8" (150mm) maximum rail overhang from last unistrut attachment at either side.

(25.0)

5 S2 AZURION 7 C20 STRUCTURAL DETAIL
SCALE: N.T.S.



1 S2 CEILING SUPPORT LAYOUT - EQUIPMENT
SCALE: 1/4" = 1'-0"
Required Unistrut Height: 9' - $6\frac{1}{2}$" - $\pm\frac{1}{8}$" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

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03.31.2025

PHILIPS

Wayne Memorial Hospital Inc
Goldsboro, NC
PROVISIONAL

Drawing Title
STRUCTURAL PLANS
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Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com

Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

S2

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
Date Description

PROFESSIONAL STAMPS

SHEET INFORMATION
Issued: 11/14/2025
Scale:
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: PHILIPS (FOR REFERENCE ONLY)
Drawing Number: -
PHILIPS-S2

11/12/2025 11:28:14 AM PROJECT FILES ON ACC

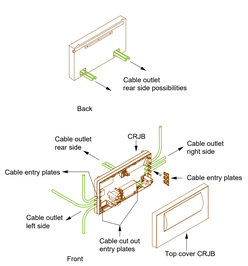
Pre-Evaluated and -Approved Anchor Reference List for Philips Installers

Anchors for items that are installed/anchored by customer/contractor shall be provided by customer/contractor. Anchors for items that are installed/anchored by Philips shall be provided by Philips. If customer's engineering documents specify anchors other than those listed below, the anchors shall be provided by customer/contractor and installed by Philips. In all instances, the wall and/or floor support are the sole responsibility of the customer/contractor. The customer's architect/engineer of record shall specify wall and/or floor support sufficient for the bolt forces shown on the details.

Equipment	Option	Anchor Style (provided by Philips)	Anchor Size (provided by Philips)	Qty.	Support Size & Material (provided & installed by customer/contractor)
Mavig Ceiling Track	A	Bolts, flat washer, lock washer, spring nuts	A307 Grade or ASME Grade 5 Bolts: 2" (10mm) x 2" (50mm) L Spring Nuts: 2" (10mm)	8	Unistrut

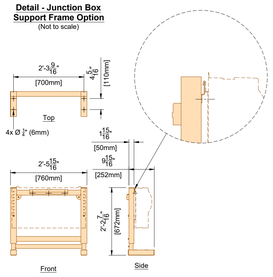
(12.0)

Detail - Example Control Room Junction Box - Cable Outlets
(Not to scale)



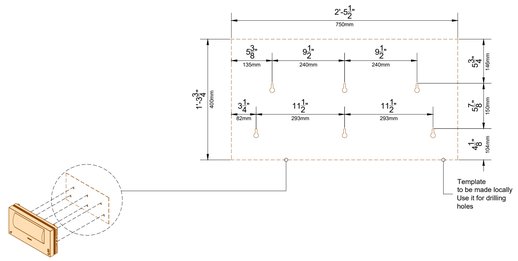
(23.0)

Detail - Junction Box Support Frame Option
(Not to scale)



(23.0)

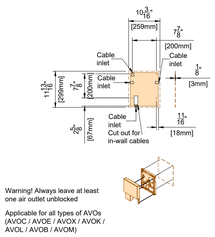
Detail - Control Room Junction Box - Hole Pattern For Mounting
(Not to scale)



(25.0)

1 SD CONTROL ROOM JUNCTION BOX MOUNTING DETAILS
SCALE: N.T.S.

Detail - AUXEA/CREA/AVO - Hole Pattern For Mounting
(Not to scale)

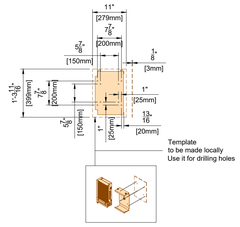


Warning! Always leave at least
one air outlet unblocked

Applicable for all types of AVOs
(AVOC / AVOE / AVOX / AVOK /
AVOL / AVOB / AVOM)

(24.1)

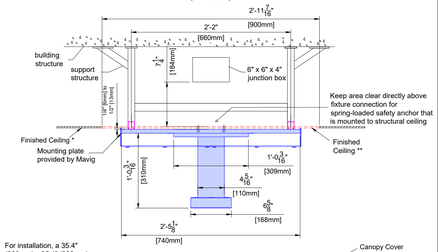
2 SD AUXEA/CREA/AVO MOUNTING DETAIL
SCALE: N.T.S.



(23.0)

3 SD SERVICE HUB MOUNTING DETAIL
SCALE: N.T.S.

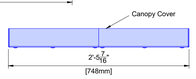
Detail - Mavig GD50 Boom Elevation View
(Not to scale)



* For installation, a 35.4" (900mm) x 35.4" (900mm) opening is required to mount plate and route cables.

** The opening required for installation on the false ceiling must be covered / re-finished after the boom is installed.

MAV RAD TV2

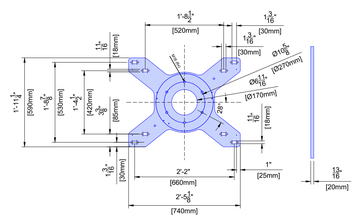


Single Version HCA:
Max. Vertical Load = 1635 N
Max. Bending Moments = 1180 Nm
Max. Limit Loads = 88 lbs (40 kg)

Dual Version HCA:
Max. Vertical Load = 2350 N
Max. Bending Moments = 2260 Nm
Max. Limit Loads = 176.37 lbs (80 kg)

(25.0)

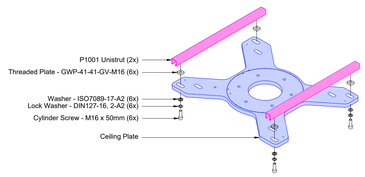
Detail - Mavig GD50 Boom Ceiling Plate
(Not to scale)



MAV RAD TV2

(25.0)

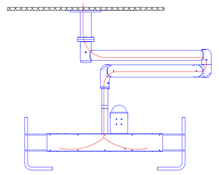
Detail - Exploded Ceiling Frame Mavig Unistrut Mounting Plate
(Not to scale)



MAV RAD TV2

(25.0)

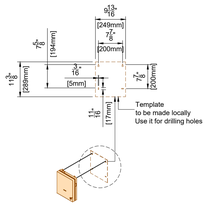
Detail - Mavig GD50 Boom Cable Routing
(Not to scale)



(25.0)

6 SD MAVIG GD50 UNISTRUT PLATE
SCALE: N.T.S.

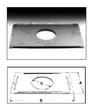
Detail - Flex Junction Box - Hole Pattern For Mounting
(Not to scale)



(23.0)

4 SD FLEX JUNCTION BOX DETAIL
SCALE: N.T.S.

VITALINQ SPEAKER MOUNTING ACCESSORIES



FA81-4

TILE BRIDGE - Model FA81-4
The Strategy Series TM tile bridge for 4" loudspeakers is designed to prevent ceiling tile sag by distributing the loudspeaker assembly weight to the ceiling's support members. Model FA81-4 accepts enclosure Model Series FA95-4 and FA97-4, Plaster Ring Model FAPR-r and is constructed of 24-gauge electro-galvanized steel.

MODEL	A	B	C	Net Weight lbs/kgs
FA81-4	14 3/8" (359mm)	23 5/8" (600mm)	6 2/3" (163mm)	2.38 lbs (1.1kgs)

FAPR-4

PLASTER RING - Model FAPR-4
Model FAPR-4 plaster ring is used to mount Strategy Series 4" loudspeakers into ceilings and walls for applications where an enclosure cannot be used, or where it is not desired. Unit is constructed with the same internal mounting flange as FA97-4 and FA95-4 enclosures. It may be used to mount non-transformer equipped loudspeaker models into walls having a min. depth of 2 1/2". The FAPR-4 will facilitate installation of transformer-equipped loudspeaker models into walls with a minimum depth of 4 3/4". Plaster ring is constructed of 20-gauge CRS and finished in textured black epoxy. It is equipped with four threaded inserts for loudspeaker installation and three slud receptacles for mounting Strategy Series grilles. The mounting mechanism is comprised of three rotating clamps (included).
**Measured from the front of the mounting surface to the rear of the inside mounting area.*

MODEL	A	B	C	Net Weight lbs/kgs
FAPR-4	5 3/8" (137mm)	7 5/8" (192mm)	6 2/3" (165mm)	0.5 lbs (227gs)

NOTE: Vitalinq mounting accessory is chosen based on ceiling state. Tiled ceilings should use a tile bridge to distribute weight between tiled ceilings. Then plaster rings should be used for all else. All mounting accessories should be delivered with speakers.
Contact Vie-A-Vis customer support at (800)319-6013 for any additional installation assistance.

(24.0)

5 SD Vitalinq Speaker Installation Detail
SCALE: N.T.S.

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03.31.2025

PHILIPS

Wayne Memorial Hospital Inc
Goldsboro, NC
PROVISIONAL

Drawing Title
STRUCTURAL DETAILS
THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS AND DOES NOT REPRESENT ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

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Project Manager: William Haynes
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Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-005987/24
Order: None

SD

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION
Issued: 11/14/2025
Scale:
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: PHILIPS (FOR REFERENCE ONLY)
Drawing Number: -
PHILIPS-SD

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Point to Point Run Lengths

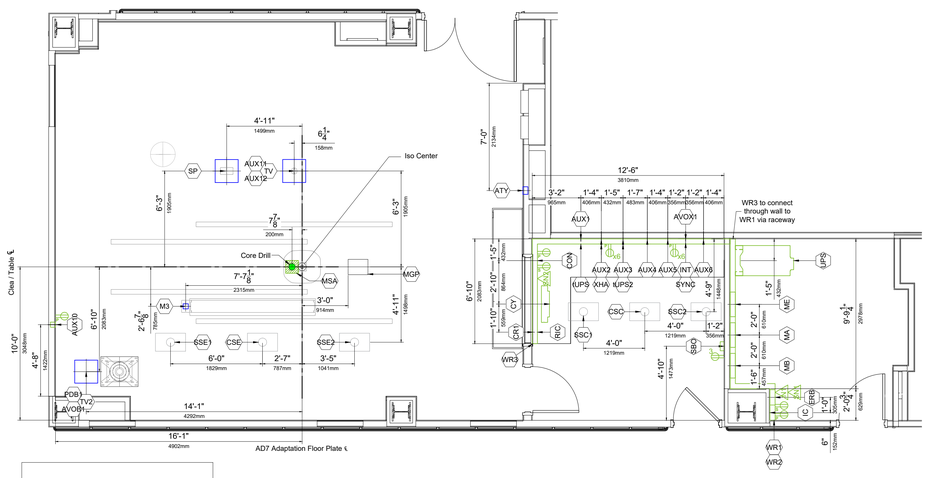
Electrician Requirements and Notes

1. A Greenlee measuring tape (part no. 435) must be provided with raceway (conduit) runs
2. All raceway (conduit) runs must take most direct route point to point.
3. All conduits shall be labeled and identified at each end by run number/destination.
4. For conduit use the minimum bending radius specific to the conduit diameter. All conduit and raceway shall be sweeps.

A Raceway (Conduit) supplied/installed by contractor - Philips cables installed by Philips
B Raceway (Conduit) supplied/installed by contractor - Philips cables installed by contractor
C Raceway (Conduits) and cables supplied and installed by contractor
D Raceway (Conduit) existing - cables supplied and installed by Philips
E Raceway (Conduit) existing - cables supplied by Philips and installed by contractor
F Raceway (Conduit) existing - cables supplied and installed by contractor
G Optional equipment, verify with local Philips Service

* P Power (AC) / D Power (DC) / G Ground / S Signal / H High Tension / C Cooling Hose / A Air Supply Hose

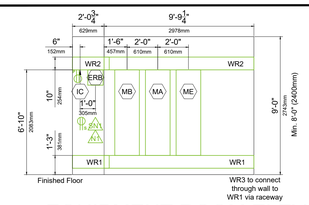
	Raceway (Conduit) Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements	(REQUIRED) Electrician to document point to point measurements
C	1	ERB	Third Party Room Outlets	-	G	-	-	For Injector, Auxiliary Box, Patient Monitoring, Video Networking, etc.	
C	2	ERB		1	G	$\frac{3}{4}$"	-	See Sheet "2-ED" for details.	
A	3	SP	ME	1	C	$2\frac{1}{2}$"	48'	Tube Cooling Hoses.	
A	4	SP	ME	1	H	$2\frac{1}{2}$"	42'	X-Ray high-voltage cables, the use of the 90 deg. ells is not acceptable.	
A	5	SP	MA	1	P/G	$1\frac{1}{2}$"	42'	-	
A	6	SP	ME	1	P/G	$1\frac{1}{2}$"	44'	-	
A	7	SP	MA	1	S	2"	42'	-	
A	8	SP	ME	1	S	1"	44'	-	
A	9	MSA	MA	1	P/G	2"	44'	-	
A	10	MSA	MA	1	S	3"	44'	-	
A	11	MSA	MB	1	S	1"	44'	-	
A	12	TV	MA	1	P	$1\frac{1}{2}$"	60'	-	
A	13	TV	MB	1	P/G	$1\frac{1}{2}$"	60'	-	
A	14	TV	MB	1	S	$1\frac{1}{2}$"	60'	For FlexVision XL.	
A	15	TV	CY	1	S	1"	60'	-	
A	16	ATY	TV	1	S	1"	60'	-	
A	17	CY	MA	1	S	3"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	18	CY	MB	1	S	$1\frac{1}{2}$"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	19	CY	MA	1	P/G	2"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	20	CY	MB	1	S	2"	86'	Conduits to land on wall raceway adjacent to CY. For Philips Workstations. Via raceway.	
A	21	ATY	MA	1	S	2"	47'	-	
C	22	SN1	SN2	1	S	1"	-	For Service Hub. Dedicated conduit and CAT 6 network connection terminated at each end (not allowed with x-ray system cabling).	
C	23	WL	MA	1	P	PER NEC	PER NEC	X-ray Warning Light Refer to Detail 3-ED	
C	24	RL	MA	1	P	PER NEC	PER NEC	Exam Room Light Refer to Detail 3-ED	
~~C~~	~~25~~	~~MSA~~	~~PHY~~	~~1~~	~~S~~	~~3"~~	-	Conduit removed 10/7/2025.	
A	26	AUX1	MB	1	S	$1\frac{1}{2}$"	86'	Via raceway.	
A	27	AUX2	MB	1	S	$1\frac{1}{2}$"	86'	Via raceway.	
A	28	AUX3	MB	1	S	$1\frac{1}{2}$"	86'	Via raceway.	
A	29	AUX4	MB	1	S	$1\frac{1}{2}$"	86'	Via raceway.	
A	30	AUX5	MB	1	S	$1\frac{1}{2}$"	86'	Via raceway.	
A	31	AUX6	MB	1	S	$1\frac{1}{2}$"	86'	Via raceway.	
A	32	AUX7	MB	1	S	$1\frac{1}{2}$"	86'	-	
A	33	AUX8	MB	1	S	$1\frac{1}{2}$"	86'	-	
A	34	AUX9	MB	1	S	$1\frac{1}{2}$"	86'	-	
A	35	AUX10	MB	1	S	$1\frac{1}{2}$"	86'	-	
C	36	MSA	MGP	1	-	2"	-	For med gas pedestal.	
A	37	INT	MSA	1	P	1 1/2"	75'	Conduit opening must be covered if the IntraSight system is planned for future installation.	
A	38	INT	MSA	1	S	1 1/2"	75'	Conduit opening must be covered if the IntraSight system is planned for future installation.	
A	39	AVOX1	MB	1	S	$1\frac{1}{2}$"	86'	For SyncVision. Via raceway.	
A	40	FJB1	MB	1	P/G	$1\frac{1}{2}$"	86'	For AVOE1.	
A	41	FJB1	MB	1	S	$1\frac{1}{2}$"	86'	For AVOE1.	
A	42	IC	MSA	1	S	3"	65'	For Table Mounted Injector.	
A	43	IC	RIC	1	S	3"	90'	Via raceway.	
B	44	CON	TV	1	S	1"	50'	For Exam Room Microphone Coaxial cable.	
B	45	CON	SSE1	1	S	1"	50'	Exam room speaker (x3) ethernet cable.	
B	46	CON	SSC1	1	S	1"	50'	Control room speaker (x3) ethernet cable.	
C	47	Power Supply	M3	1	P	$\frac{3}{4}$"	-	Project electrician to land 120 - 240 VAC, 50 - 60 Hz in M3 terminal block. Light requires Plus 24, Minus 24, and Ground.	
C	48	Power Panel	CB2	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	49	CB2	UPS	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	50	UPS	CB	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	51	CB	WR2	1	P/G	Per N.E.C.	Per N.E.C.	4 AWG minimum phase/ground wire size. Final connections to terminate at MA terminal block.	
C	52	SBC	UPS	1	S	Per N.E.C.	Per N.E.C.	For Signaling Box Option. Cable by electrician.	
B	53	UPS	MA	1	S	Per N.E.C.	Per N.E.C.	UPS communication cable by Socomec.	
C	54	UPS	ST	1	S	Per N.E.C.	Per N.E.C.		
C	55	CB	ST	1	P	Per N.E.C.	Per N.E.C.		
G	56	CB2	ST	1	P	Per N.E.C.	Per N.E.C.		
A	57	PDB	MB	1	P/G	$1\frac{1}{2}$"	60'	For AVOB1 and TV2.	
A	58	PDB	MB	1	S	$1\frac{1}{2}$"	60'	For AVOB1 and TV2.	
A	59	MSA	XHA	1	S	2 1/2"	100'	For Xper Hemo App.	
A	60	MSA	UPS	1	P	1 1/2"	100'	For Xper Hemo App.	
A	61	TV	XHA	1	P	1 1/2"	100'	For Xper Hemo App.	
A	62	TV	AUX1	1	S	1"	98'	For Xper Hemo App.	



1 E1 ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"
Required Unistrut Height: 9' - $6\frac{3}{4}$", $\pm\frac{1}{4}$" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

Important Notes:
* The Iso Center is the initial and most crucial control point in the construction of a procedure room. Once established, it guides the placement of all imaging equipment, third-party devices, mechanical, electrical, and plumbing systems (MEPs), as well as the overall construction. These are positioned relative to the Iso Center's X, Y, and Z coordinates to avoid operational issues and clinical limitations.
* Control Room Junction Box (CY) provides all signal and power requirements for Control Room Equipment Adapters (CR).

Important Notes:
New replacement backboxes must be installed at the standard height.
Existing backboxes cannot be relocated or modified, as doing so will void their UL rating.

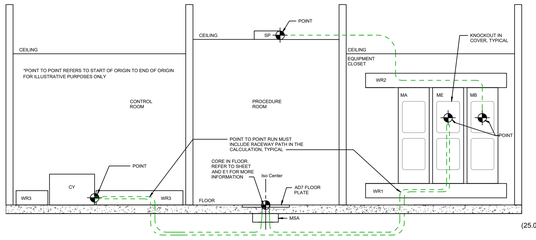


2 E1 EQUIPMENT ROOM ELEVATION
SCALE: 1/4" = 1'-0"

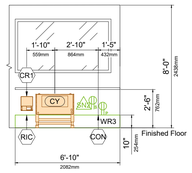
Video Integration Configuration	
FJB	AVOE
FJB1	AVOE1

Planning Issues and Considerations

1. Flex Junction Box (FJB1) fulfills all electrical and signal requirements needed for AVOE1 and TV.
2. For Vitaling Speakers - 14'-0" cables will be daisy chained to connect the Stereo Speakers and Communication Speaker in exam and control room within the ceiling space.
3. Conduit run(s) from SP to MA and ME must be able to take the most direct route. (Maximum distance point to point = 42' / 42')
4. Power Distribution Box (PDB) fulfills all electrical and signal requirements needed for AVOB1 and TV2 mounted on Mavig Monitor Suspension GD50.



3 E1 ELECTRICAL POINT TO POINT DETAIL
SCALE: N.T.S.



Important Notes:
Minimal clear countertop - 30".
Grommets to be placed 2' on center throughout the length on countertop.
Architect to coordinate with end users/technicians to determine final placement of control desk components prior to installation in order to avoid rework. Architect to coordinate with Philips Project Manager to reflect final placement on Philips drawings.
Site Specific Only under counter equipment refer, A1/2 for final placement of equipment.

4 E1 CONTROL ROOM ELEVATION
SCALE: 1/4" = 1'-0"

Electrical Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional

Item Number | Detail Sheet | Description

Wall

B	ERB	Equi-Potential Reference Bar mounted in a 12" (305mm) W x 12" (305mm) H x 4" (105mm) D pull box with hinged cover, surface mounted to the bottom of "WR2" when possible.	ED
B	MA, ME, MB	**Customer/Contractor** procures and installs Philips Back Boxes from Distinctive Manufacturing Group. Please see 4-ED for ordering instructions for back boxes. Part # 98980122036?. These back boxes are FDA / UL approved and certified for Philips equipment installations. (NO SUBSTITUTION MATERIAL IS ALLOWED)	ED
B	CY, CR1, AUX1, AUX2, AUX3, AUX4, AUX5, AUX6, (INT), SYNC, AVOX1, (RIC), XHA, UPS1, UPS2	2" grommet opening in WR3. Align with grommet opening on countertop.	
B	AUX7, AUX8, AUX9, AUX10	4" (105mm) W x 4" (105mm) H x 4" (105mm) D pull box with removable screw-type cover plate, flush mounted. Exact height to be determined. Verify location with local Philips Service.	
B	WR1, WR2	10" (255mm) W x 4" (105mm) D wall raceway, surface mounted with removable screw-type cover plate. "WR1" is at 5" (130mm) A.F.F. to bottom of raceway. "WR2" is at 82" (2085mm) A.F.F. to bottom of raceway.	ED
B	WR3	10" (255mm) W x 4" (105mm) D wall raceway, surface mounted with removable screw-type cover plate. "WR3" is at finished floor.	ED
B	ATY	Auxiliary Box - 6" (155mm) W x 6" (155mm) H x 4" (105mm) D wall box, flush mounted with removable screw-type cover plate. Mount 6" below finished ceiling to the top of box. ATY to be clearly visible. Location shown is recommended and customer may change location to meet clinical needs.	
B	WL	Warning Light - Provide a surface or flush mounted light fixture above door to indicate when X-ray is on, if required by local code or physicist of record. (Not shown on plan)	ED
B	RL	Exam Room Light. Refer to Detail 3-ED. (Not shown on plan)	ED
B	FJB1	6" (155mm) W x 6" (155mm) H x 4" (105mm) D pull box with removable screw-type cover plate, flush mounted. Location shown is recommended and may be changed - verify relocation with local Philips Service.	
B	AVOE1	Cables to connect from FJB1 to the AVOE1. AVOE1 to remain as close as possible to FJB1 as it fulfills the electrical and signal requirements needed for AVOE1. Location to be determined, verify location with local Philips Service.	
B	CON	Grommet opening on WR3. Push-to-talk desktop microphone connection in Control Room.	
B	CB	480V, 3 phase, Type D 80 A circuit breaker with long-time delay and shunt trip (e.g. Square D HDL36080 or equivalent). Run power from breaker to "MA", leaving an 8' (2440mm) tail at "MA". See Sheet "5-ED" for power quality requirements. Location per local code or owner requirements. (Not shown on plan)	ED
B	ST	Shunt Trip (emergency off) - Large mushroom-head button on remote control station with contacts to operate feature of "CB" and "CB2" (if required by local code or owner, and mandatory for VA and O.O.D installations). If UPS is utilized, EPO switch will run 2 sets of communication wires to input breaker to UPS and to UPS itself (Not shown on plan)	ED
B	CB2	UPS input breaker. 125A, 3-pole circuit breaker with shunt trip if required by local code. (Not shown on plan).	ED
D	UPS	UPS - 75 kVA.	ED
D	SBO	Signaling Box Option (wall mounted in the control area). Exact height to be determined. Location shown is recommended and may be changed - verify relocation with customer/contractor.	ED
B	IC	Grommet opening on "WR2". Exact size and location to be determined by local Philips Service.	

Floor

B	MSA	10" (255mm) W x 10" (255mm) L x 6" (155mm) D floor box, under the floor with a 5" (130mm) core drill up to the underside of AD7 Adaptation Plate. Contractor to provide protection around core drill hole so that there are no sharp edges for protection of cables. Consult with local Philips Service.	
B	MGP	Med Gas Pedestal. Verify exact size with customer/contractor and location with Local Philips Service.	

Ceiling

B	SP	18" (460mm) W x 18" (460mm) L x 6" (155mm) D ceiling box, flush mounted with removable screw-type cover plate. Provide one 3" (80mm) diameter knockout.	
B	TV, AUX1, AUX2	18" (460mm) W x 18" (460mm) L x 6" (155mm) D ceiling box, flush mounted with removable screw-type cover plate. Provide a 2 $\frac{1}{2}$" (65mm) round cutout (Two 2 $\frac{1}{2}$" (65mm) round cutouts are required for systems with two monitor carriages - verify with local Philips Service). "AUX11" and "AUX12" to be mounted on back of FlexVision Monitor.	
B	SSE1, SSE2, SSC1, SSC2	Recessed ceiling mounted loudspeaker; "SSE1" and "SSE2" are inside Exam Room and "SSC1" and "SSC2" are inside Control Room/Area. Speaker cutout dimensions 6.6" (168mm) Diameter and each weighs 2.5 lbs. (1.1kg); Seismic wires to secure speakers in accordance with local code	
B	CSC, CSA, CB	Recessed ceiling mounted communication loudspeaker; "CSE' to be located in Exam Room and "CSC" to be located inside Control Room/Area. Speaker cutout dimensions 6.6" (168mm) Diameter and each weighs 2.5 lbs. (1.1kg); Seismic wires to secure speakers in accordance with local code	
B	M3	4" (105 mm)W x 4" (105 mm)L x 2 1/2" (65 mm)D ceiling box, flush mounted with removable screw-type cover plate. Hardwire 120 - 240 VAC, 50 - 60 Hz hospital power to "M3".	
B	PDB, TV2, AVOB1	18" (460mm) W x 18" (460mm) L x 6" (155mm) D ceiling box, above finished ceiling with removable screw-type cover plate. PDB (Power Distribution Box) to be placed inside the ceiling box. AVOB (Auxiliary Video Output) box to be mounted behind monitor.	

Duplexes

B	S	120V/20A dedicated duplex outlet for service.	
B	P	120V/20A dedicated duplex outlet for Philips equipment.	
G	250	NEMA L6-30R, Hubbell Part# HBL2620, 250VAC, 30A, wall mount twist lock outlet for Spectranetics Laser. (Not shown on plan)	
B		120VAC with 1Amp power draw SBO (Signaling Box Option)	

Network Connectors

B	N1	Single gang box for RJ45 type Ethernet 10/100/1000 Mbit network connector with access to customer's network. Locate within 10' (3050mm) of network card. Network fiber optic and Ethernet cabling, connectors, wall boxes, patch panels, etc. are the responsibility of the purchaser. Philips assumes no responsibility for procurement, installation, or maintenance of these components.	
B	SN1	Single gang box for an RJ45 Ethernet 10/100/1000 Mbit network connector, terminated to a CAT6 single RJ45 outlet dedicated for Service Hub connection in the equipment room. A dedicated conduit and CAT6 network connection must be terminated at each end (not be combined with X-ray system cabling).	
B	SN2	Single gang box for an RJ45 Ethernet 10/100/1000 Mbit network connector, terminated to a CAT6 single RJ45 outlet dedicated for service connection in the control room. A dedicated conduit and CAT6 network connection must be terminated at each end (not be combined with X-ray system cabling).	

PHILIPS

Wayne Memorial Hospital Inc
Goldsboro, NC
PROVISIONAL

Drawing Title
ELECTRICAL PLANS
THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

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Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com

Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

E1

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03.31.2025

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Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number: R25.18089.00
Client Name: UNC HEALTH WAYNE
Project Name: CATH LAB RENOVATION
Project Address: 2700 WAYNE MEMORIAL DRIVE GOLDSBORO, NC 27533
CDH Number: P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
| Date | Description

PROFESSIONAL STAMPS

SHEET INFORMATION
Issued: 11/14/2025
Scale:
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: PHILIPS (FOR REFERENCE ONLY)
Drawing Number: -
PHILIPS-E1

11/12/2025 11:28:14 AM PROJECT FILES ON ACC

Emergency Power

Philips does not require equipment to be on emergency power. If the customer deems it necessary for the equipment to be supplied with emergency power, the following specifications must be applied:

The Mains 40E cabinet feeding an Azurion system will have an absolute peak current of <=300A @ 480V. Maximum momentary current <=80A per phase when averaged over a 5-second window. Note that during acquisition, the current harmonics (including sub- and inter-harmonics) up to 1 kHz can be substantial. Account for: 30% for the mains frequency +/- the frame speed, up to 20% for the 5th harmonics, up to 10% for the 7th harmonics.

Maximum differential mode induced disturbance voltage on these wires shall be a <3V peak at all frequencies. Maximum common mode current on these wires shall be less than 3 micro-amp at frequencies between 30-1000MHz to meet EMC regulations.

For systems delivered to site before Jan 2016 or with SIB (system interface box) 4522163320978. When this interface is used a Sub-D capacitive filter adapter with 5.6nF between pins and chassis shall be placed on X14 of the SIB input in the MA-cabinet (e.g. Amphenol FCE17B25AD290). (24.0)

Electrical Requirement Notes for Systems with MA Cabinet

Electrical power distribution at the facility shall comply with:

Utilization voltages per ANSI C84.1 - 2006 range A.

Voltage to be supplied is 3 phase, Wye or symmetric Delta 3-line +PE.

Phase conductors to be sized for instantaneous voltage drop per NEC 517.73 and Philips recommendations.

All Philips equipment is grounded via the equipment insulated ground wire. Metal raceway bonding shall be used as a secondary ground fault return path only for the supply mains to the equipment. The raceway system ground and isolated equipment ground shall be bonded together via the ERB terminal jumpers.

The Philips system has a private ground domain per clause 250.96B of the NEC. The raceway from the X-ray breaker (CB) to the Mains 40E Cabinet shall be supplemented by an internal insulated equipment grounding conductor installed in accordance with clause 250.146(D) of the NEC. The Azurion equipment ground domain and the branch circuit ground domain are bonded together in the ERB via a ground bonding jumper.

ANSI / NFPA 70 - National Electrical Code
Article 250 - Grounding
Article 517 - Healthcare Facilities
ANSI / NFPA 99 - Healthcare Facilities (24.0)

Power Quality Guidelines

1. Power supplied to medical imaging equipment must be separate from power feeds to air conditioning, elevators, outdoor lighting, and other frequently switched or motorized loads. Such loads can cause waveform distortion and voltage fluctuations that can hinder high quality imaging.
2. Equipment that utilizes the facility power system to transmit control signals (especially clock systems) may interfere with medical imaging equipment, thus requiring special filtering.
3. The following devices provide a high impedance, nonlinear voltage source, which may affect image quality:
Static UPS systems, Series filters, Power conditioners, and Voltage regulators.
Do not install such devices in the supply mains branch circuit of the Azurion system without consulting Philips installation or service personnel.
4. Line impedance is the combined resistance and inductive reactance of the electrical system and includes the impedance of the power source, the facility distribution system, and all phase conductors between the source and the imaging equipment. The minimum conductor size is based on the total line impedance and NEC requirements. Impedance calculations are to be performed by an electrical engineer. (22.0)

General Electrical Information

1. General
The customer shall be solely responsible, at its expense, for preparation of the site, including any required electrical alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and electrical codes, the customer shall be solely responsible for obtaining all electrical permits from jurisdictional authority.

2. Materials and Labor
The customer shall be solely responsible, at its expense, to provide and install all electrical ducts, boxes, raceways (conduits, wireways, auxiliary gutters etc.), fittings, bushing, etc., As separately specified herein.

3. Electrical Ducts and Boxes
Electrical ducts and boxes shall be accessible and have removable covers. **Philips system cables are not waterproof rating.** Floor ducts and boxes shall have watertight covers, and must be installed in slab for ground level grade conditions, and cannot be installed under the slab in crawl space where exposed to grade/ground level conditions. Ducts shall be divided into as many as four separate channels by metal dividers to separate wiring and cables into groups as follows:

Group A: Branch circuit equipment supply mains power wires together with the branch circuit isolated equipment bonding wire. Separation Group A and other groups is mandatory along the full run of group A wires.
Group B: Equipment Secondary Circuit AC supply and associated isolated ground cable/wire harnesses.
Group C: Equipment signal wires and cable harnesses plus equipment low-voltage DC supply cable/wire harnesses.
Group D: X-Ray high-voltage cables, the use of 90 deg. ells is not acceptable.

On ceiling duct and wall duct use 45 deg. bends at all corners. All intersecting points in duct to have cross over tunnels supplied and installed by contractor to maintain separation of cables based on 725.136 for low voltage signaling cables and conductors and 517.80 for communications and signaling cables in health care applications.

Secondary circuits of transformer powered communications and signaling systems are not required to be enclosed in raceways unless otherwise specified by Chapter 7 or Chapter 8.

All wire harnesses of the Azurion system are required to be run in a raceway (wireway) dedicated to Azurion wire harnesses. No foreign wiring shall be run in the same wireway together with the Azurion wire harnesses. Separation between groups B, C, and D is recommended for the first 3 meters behind the equipment cabinets and for the locations where wire-harness over-length is suspended.

4. Raceways (Conduit)
Raceway (Conduit) point - to - point runs shall be as direct as possible. Empty conduit runs used for cables may require pull boxes located along the run. Consult with Philips. A Greenlee measuring tape (part no. 435) shall be installed in each conduit run. Best practice to name the physical conduit. All conduits which enter duct prior to their termination point must maintain separation from other cables via use of dividers, cross over tunnels, or conduit supplied and installed by contractor from entrance into duct to exit from duct.

5. Conductors
All conductors, separately specified, shall be 90°C stranded copper, rung out and marked.

6. Disconnecting Means
A disconnecting means shall be provided as separately specified.

7. Warning Lights and Door Switches
"X-ray on" warning lights and x-ray termination door switches should be provided at all entrances to x-ray rooms as required by code.

8. Dimmer Switches X-ray room lights should be provided with dimmer switches. (25.0)

Electrical Notes

1. Electrical boxes displayed on E1 are the minimum sizes.

2. Philips equipment must be electrically isolated from conduits, raceways, ducts, seismic anchoring, floor anchoring, etc.

3. Philips cables are not plenum rated.

4. Provide and install 2" diameter chase nipples between adjacent wall boxes.

5. Install an insulated stranded ground wire per feeder/conductor size from the main ground bus to the ERB and from the ERB to the MA Cabinet (minimum size 4 AWG).

6. The contractor will supply & install all breakers, shunt trip and incoming power to the breakers. The exact location of the breakers and shunt trips will be determined by the architect or contractor. All cables and conductors to the equipment supply mains branch circuit breaker shall be supplied and installed by the contractor.

7. The contractor shall supply & install all pull boxes, raceway runs, stainless steel covers, etc. Conduit/raceways must be free from burrs and sharp edges over its entire length. A Greenlee measuring tape (part no. 435) must be provided with raceway runs to validate runs are within length restrictions.

8. Electrical raceway ducts shall be installed with removable covers. The raceway should be accessible for the entire length. In case of non - accessible floors, walls and ceilings, an adequate number of access hatches should be supplied to enable installation of cabling. All raceways will be designed in a manner that will not allow cables to fall out of the raceway when the covers are removed. In most cases, this will require above - ceiling raceway to be installed with the covers removable from the top.

9. Raceway sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or National Electrical Code, whichever govern.

10. Electrical contractor shall install grounding and bonding conductors at raceway openings within wall boxes as required by national and local electrical codes. Ground bond wires and lugs shall be installed in such a way to prevent the inadvertent contact with the installed Philips equipment to maintain Philips isolated ground scheme and maintain patient safety.

11. Convenience outlets are not shown on the plans. Their number and location are to be specified by the customer/architect.

12. Philips system cables are not waterproof rating. Conduit required to be EMT/Rigid metal material; or plastic/PVC material for below grade installation if allowed by code. Metal conduits must be installed in slab for ground level grade conditions, and cannot be installed under the slab in crawl space where exposed to grade/ground level conditions.

13. Flex conduit does not meet Philips installation requirement and is NOT ALLOWED for substitution for EMT/Rigid conduit materials. Any deviation for conduit material requires written permission from the Philips Project Manager. (25.0)

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Power Quality Requirements (Azurion) (24.0)

Maximum Rated Power	100kW
Supply Configuration	3 phase, equally sized insulated power conductors and an insulated equipment grounding conductor. Insulated grounding conductor shall have the same or larger size than line conductors. Line wires shall be no smaller than 6 AWG, 90°C temperature or higher temperature rating. The conductor size is dependant on the upstream circuit breaker rating: Minimum 4 AWG for 80A circuit breaker rating.
Nominal Line Voltage	480 VAC, 60 Hz
Line Voltage Variation	Voltage variations are never to exceed ±10% when measured using 10 minute mean RMS values with a measurement window of 1 week. At least 95% of all measured 10 minute mean RMS values shall be within ±5% of the configured nominal voltage.
Line Voltage Balance	2% maximum of nominal voltage between phases
Frequency Variation	± 1.0 Hz
Voltage Surges	To 110% of steady-state voltage 100 msecs. Maximum duration, 6 per hour max.
Voltage Sags	To 90% of steady-state voltage 100 msecs. Maximum duration, 6 per hour max.
Line Impulses	1000 VPK above phase-neutral RMS absolute maximum. No more than 1 impulse per hour to exceed 500 VPK.
Neutral-Ground Voltage	2.0V maximum RMS value
Neutral-Ground Impulses	No more than 1 per hour that exceeds 25V and 1 milli-Joule
High Frequency Noise	3.0V steady-state maximum. Over 3.0V permitted for 100 msec. maximum, 1 per hour max.
Grounded Conductor Impedance	0.1 Ohms @ 60 Hz maximum

Branch Circuit and Wire Gauge Requirements (Azurion) (24.1)

Branch Power	100 kVA (System only; verify UPS power requirements)
Max. Standby Current	8A per phase
Circuit Breaker (CB)	3 Phase, Type D 80A with long-time delay and shunt trip

For information only. Terminal block accommodates AWG 00 to AWG 4 in mains cabinet. Engineer of record responsible for calculating phase conductor and equipment ground conductor sizes. Recommended phase conductor and equipment ground conductor sizes for 1% impedance of supply conductors to circuit breaker (CB).

Max. Instantaneous Power (at X-ray tube power 100 kV 1000mA current)	100 kW
Max. Inst. Current @ CB (RMS value over half-cycle)	300A @ 480V
Max. Phase-phase impedance @ CRC	0.455 Ω
Long Term Rating	63A at 480V
Momentary Rating (using a window of 5 seconds)	125A at 480V

Underwriters Laboratories
Global Health Sciences
Operations

UL LLC
12 Laboratory Drive
PO Box 13995
Research Triangle Park, NC 27709
United States

PHILIPS
Image Guided Therapy Systems

Philips Medical Systems Nederland B.V.
Image Guided Therapy Systems
Veenpluis 4-6
5684 PC Best
The Netherlands

To whom it concerns.

Philips has chosen UL to certify the back-box, which is an installation accessory for their medical system equipment cabinets. The back-box part number 9898-012-20367, together with the accompanying documentation DMR257722 has been tested and evaluated by UL under categories BOJZ(7) Boxes, Junction and Pull, taking into account the intended use and installation instructions in the accompanying documentation. The product was determined to comply with the applicable requirements and is UL listed with certificate number 20160314-E481790.

The intended use of the back-box includes the suspension of over-length of fixed-length wire harnesses that are part of the ANSI/AAMI/IES60601-1 listed medical X-ray equipment. These wire harnesses comply with the 2 means of protection against electric shock (i.e. all jacketed cables) as prescribed by the medical standard. Certified/listed equipment is compliant with NEC (NFPA70 / NFPA99) when installed and maintained according to the accompanying documentation (NFPA70 article 110.3) via promulgation of the accompanying documentation and the descriptive report of an OSHA accepted NRTL[1].

The Philips medical systems are permanently installed ANSI/AAMI/IES 60601-1 Class-I equipment requiring a protective earth connection to protect the primary supply mains circuit. The system is protectively earthed via an insulated protective earth conductor associated with the branch circuit supply mains that is routed via the Equi-potential Reference Bar (ARB) and terminates into the protective earth terminal, located in the cabinet rear cover of the main cabinet. The wiring from the branch supply to the mains input terminal of the system are not included in the system certification. The raceway system grounding to the branch circuit provides a secondary means of protection against electric shock for the primary circuit of the electrical wiring. Therefor the raceway system, including the back-box, needs to be grounded to the supply mains branch circuit.

All control room and examination room equipment of the medical systems is powered from the secondary circuit of an isolation transformer. In order to ensure a defined protective earth ground fault return path, e.g. for common phenomenon as X-ray tube arcing, the system accompanying documentation prescribes protective earth and ground domain separation. All protective earth and ground domains are bonded together at the Equi-potential Reference Bar (ERB).

The application of the ERB and protective earth connections have been prescribed in the accompanying documentation of the Medical Electrical System and in the installation manual of the back-box. The description in the back-box installation manual is brief, but includes the necessary explanation and requirements to ensure proper grounding of the back-box to the Equi-potential Conductor Bar (ECB) of the ERB. The IEC62353:2014 recurring tests protocol DMR216821 for electrical safety verifies and records the ground bonding of the specified ground domains.

Article 517.77 of NFPA 70-2014 allows high-tension shielded X-ray cables to be installed combined along with control cables and power supply conductors without the need for separation barriers. The X-ray

[1] The medical system has been certified by CSA and is documented in CSA certificate 700001934 for the Alura Xper and Alura Clarity series.

system and protective earth connection has been designed such that all wire harnesses of the medical X-ray system are allowed to be run together through the raceway system without separation provided the raceway duct or conduit only contains wire harnesses of the medical system[2] and no foreign wire harnesses.

This letter is approved for communication to AHJ inspectors and other parties involved in the installation and release of Philips medical systems.

Arpil 5, 2016

On behalf of UL LCC

D. Jennings-Conner
Director - Global Health Sciences Operations

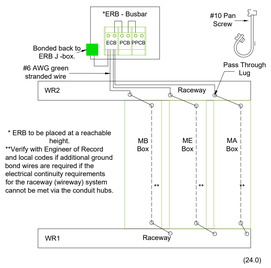
On behalf of Philips IGT-Systems

R.P. Kalshoret
R&D - System Designer

On behalf of Philips Norm-Compliance

W. Thijssen
R&D – Norm Compliance Officer

[2] The medical system consists of the X-ray system, combined with other medical equipment for which a compatibility statement has been issued by Philips. Such compatibility statement is based evaluation of the combined medical system and may contain additional installation requirements agreed upon between Philips and a 3rd party equipment manufacturer.

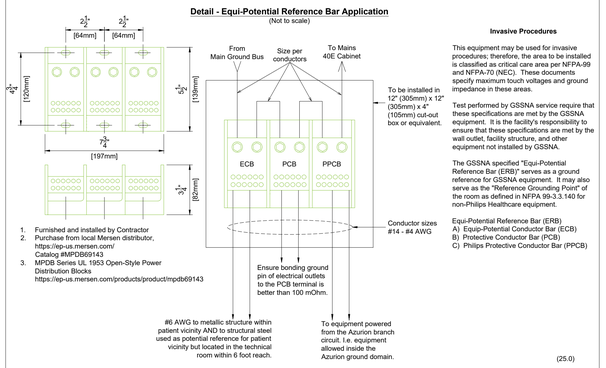


* ERB to be placed at a reachable height.
**Verify with Engineer of Record and local codes if additional ground bond wires are required if the electrical continuity requirements for the raceway (wireway) system cannot be met via the conduit hubs.

(24.0)

1 ED GROUNDING DETAIL
SCALE: N.T.S.

Detail - Equi-Potential Reference Bar Application
(Not to scale)



1. Furnished and installed by Contractor.
2. Purchase from local Mersen distributor, https://ep-us.mersen.com/ Catalog #MPDB69143
3. MPDB Series UL 1953 Open-Style Power Distribution Blocks https://ep-us.mersen.com/products/product/mpdb69143

Invasive Procedures

This equipment may be used for invasive procedures; therefore, the area to be installed is classified as critical care area per NFPA-99 and NFPA-70 (NEC). These documents specify maximum touch voltages and ground impedance in these areas.

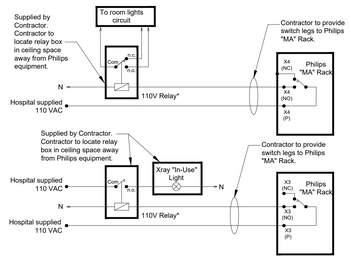
Test performed by GSSNA service require that these specifications are met by the GSSNA equipment. It is the facility's responsibility to ensure that these specifications are met by the wall outlet, facility structure, and other equipment not installed by GSSNA.

The GSSNA specified "Equi-Potential Reference Bar (ERB)" serves as a ground reference for GSSNA equipment. It may also serve as the "Reference Grounding Point" of the room as defined in NFPA 99-3.3.140 for non-Philips Healthcare equipment.

Equi-Potential Reference Bar (ERB):
A) Equip-Potential Conductor Bar (ECB)
B) Protective Conductor Bar (PCB)
C) Philips Protective Conductor Bar (PPCB)

(25.0)

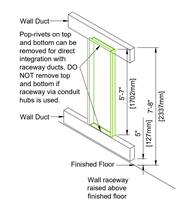
2 ED EQUIP-POTENTIAL BAR DETAIL
SCALE: N.T.S.



Important Notes:
1. The system can be configured by software
   a. To turn off the desired exam room lights everytime during exposures
   b. Or the exam room lights can be set to turn on/off manually by the Philips footswitch.
   c. Verify with customer which exam room lights are controlled.
2. The X-ray "In-Use" indicator light(s) must be energized everytime during exposures.
3. The 110V relay should have heavy-duty contacts to handle the room lights current. All items shown (except Philips items) to be supplied by Contractor. (24.0)

3 ED X-RAY IN-USE LIGHT SCHEMATIC
SCALE: N.T.S.

Important Notes:
New replacement backboxes must be installed at the standard height.
Existing backboxes cannot be relocated or modified, as doing so will void their UL rating.



Required:
Back Box Ordering Details

Distinctive Manufacturing Group Method of Business
Transactions for Philips Customers

Part# 989801220367 Philips Xray Back Box

1) Three ordering methods:
-Email: backbox@theitmgusa.com
-Phone: 260-495-1818
-Fax: 260-495-1822

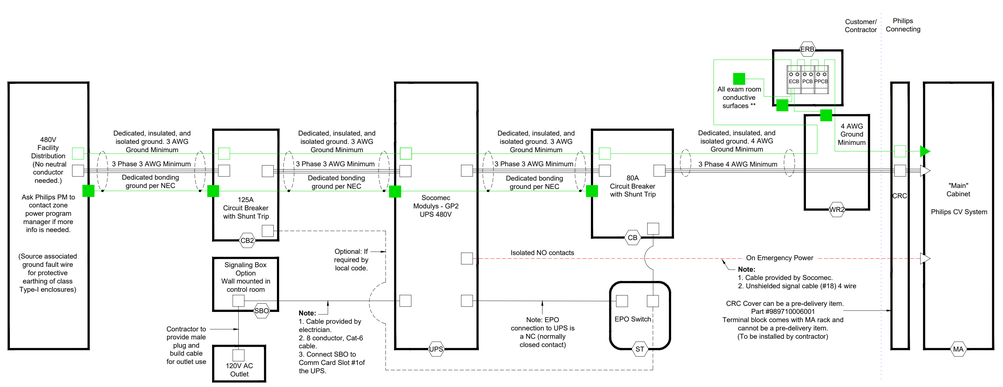
2) Payment Terms - Credit Card Only
-MasterCard
-Visa
-Discover
-American Express

3) Lead Time
-3-Week Lead time

4) Freight
-All shipments will be shipped on skid
-Freight will be Pre-paid and added (PP+) to the invoice at time of shipment

(24.1)

4 ED BACK BOX MOUNTING DETAIL
SCALE: N.T.S.



5 ED ELECTRICAL SCHEMATIC WITH SOCOMEC LLF DETAIL
SCALE: N.T.S.

Legend

- Wiring and Connections made by Contractor unless otherwise noted. Isolated from metal casing.
- Bond / Safety ground wiring and Connections made by Contractor. Connections that are connected to metal casing (e.g. outer housing, busbar).
- Insolated / Isolated Ground wiring and Connections made by Contractor for equipment grounding conductor. Isolated from metal casing.
- Wiring Connection made by Philips
- Ground wiring Connection made by Philips
- Supply conductors installed together with equipment grounding conductor in the raceway (conduit).

Notes

- Wiring and circuit sizes from source supply must meet Philips regulation requirements and must be determined by contractor to meet building conditions and local codes. 3 Phase + PE (Protective Earth).
- RAP needs to be mounted to the wall by contractor.
- Wire sizes will be dependent on:
  1. Lug size of UPS and MA terminal block
  2. The tolerance on the allowed nominal mains voltage shall not exceed ±10%.
  3. MA CRC Terminal Block can only accept 4 AWG.
- Full UPS assembly, all wiring, installation, Battery Module/Power Module insertion (for modular systems), and startup in bypass is the responsibility of the electrician unless it is specifically stated otherwise. If electrical work is not completed when commissioning is scheduled there may be a second visit scheduled resulting in delay of timeline and additional cost.
- All Power Cables shall be in separate conduits from control and communication cables.
- ** This equipment may be used for invasive procedures; therefore, the area to be installed is classified as critical care area per NFPA-99 and NFPA-70 (NEC). These documents specify maximum touch voltages and ground impedance in these areas.
- ** The GSSNA specified "Equi-Potential Reference Bar (ERB)" serves as a ground reference for GSSNA equipment. It may also serve as the "Reference Grounding Point" of the room as defined in NFPA 99-3.3.140 for non-Philips Healthcare equipment.

(25.0)

CPL | Architecture Engineering Planning
3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

PHILIPS

Wayne Memorial Hospital Inc
Goldsboro, NC
PROVISIONAL

Drawing Title
ELECTRICAL DETAILS
THE INFORMATION IN THIS PACKAGE IS PROVIDED AS PHILIPS EQUIPMENT REQUIREMENTS, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS.

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com

Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

ED

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET CS
AND SHOULD NOT BE SEPARATED.

03.31.2025

UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
Date Description

PROFESSIONAL STAMPS

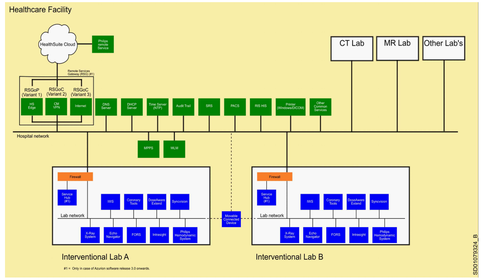
SHEET INFORMATION
Issued 11/14/2025
Scale
Project Status FINAL CONSTRUCTION DRAWINGS
Drawn By CPL
Checked By CPL
Drawing Title PHILIPS (FOR REFERENCE ONLY)
Drawing Number
-
PHILIPS-ED

11/12/2025 11:28:14 AM PROJECT FILES ON ACC

Definition & Abbreviations

Terms	Description
*	"Mandatory items to be filled in when available in the Cathlab. Missing these, might impact the installation time."
AE title	An AE Title is used by an Application Entity (AE) to identify itself. AE Titles need to be locally unique and are typically managed by a system administrator.
BioMed	BioMedical Engineer
CMVPN	Customer Managed Virtual Practice
CT	Computed Tomography
DHCP	Dynamic Host Configuration Protocol
DICOM	Digital Imaging and Communication in Medicine
DNS	Domain Name System
FORS	Fiber Optic RealShape
FQDN	A fully qualified domain name (FQDN) is the complete domain name for a specific computer, or host, on the internet. The FQDN consists of two parts: the hostname and the domain name. For some registration part, this methodology can be used for registration.
FSE	Field Service Engineer
HCF	HealthCare Facility (= customer)
Hostname	In computer networking, a hostname is a label that is assigned to a device connected to a computer network and that is used to identify the device in various forms of electronic communication, such as the World Wide Web.
IP address	Packaging configuration containing one or more serviceable items. Optionally containing tools to install the serviceable items.
IWS	Interventional Workspot
MAC Address	A media access control address (MAC address) is a unique identifier assigned to a network interface controller (NIC) for use as a network address in communications within a network segment. MAC address can mostly be found on the rear side of the PC, or can be found by the survey in the service application
MPPS	Modality Performed Procedure Step
MR	Magnetic Resonance
NCS	Network Connectivity Sheet
NTP	Network Time Protocol
PACS	Picture Archiving and Communication System
PM	Project Manager, responsible for managing the catlab and X-ray installation.
Port number	A port number is a way to identify a specific process to which an Internet or other network message is to be forwarded when it arrives at a server.
PRS	Philips Remote Services
RIS	Radiology Information System
RSE	Remote Service Engineer
RSG	Remote Services Gateway
RSGoP (Variant 1)	Remote Services Gateway on Premises using a Philips HS Edge
RSGoP (Variant2)	Remote Services Gateway on Cloud using a CMVPN
RSGoP (Variant 3)	Remote Services Gateway on Cloud using internt
SRS	Structured Report Server
WLM	Work List Management

IMPORTANT NOTE: *It is the customer's responsibility to coordinate with the local Philips Engineer to provide ALL required network information and install ALL required network cabling & drops according to Philips specifications PRIOR to the scheduled installation start date. Failure to do so may delay system installation and jeopardize the customer hand over date.*



Hospital Information

Health Care Facility (HCF)		Responsibility
Hospital name	E.g. Hospital X	HCF IT
Country		HCF IT
City		HCF IT
Postal code		HCF IT
Address		HCF IT
Philips Field Service Engineer		**Responsibility**
Contact name		Philips PM
Email address		Philips PM
Phone number		Philips PM
Secondary contact name		Philips PM
Secondary contact Email		Philips PM
Secondary contact Phone		Philips PM
Philips Project Manager		**Responsibility**
Contact name		Philips PM
Email address		Philips PM
Phone number		Philips PM
Secondary contact name		Philips PM
Secondary contact Email		Philips PM
Secondary contact Phone		Philips PM
IT department		**Responsibility**
Contact name		HCF IT
Email address		HCF IT
Phone number		HCF IT
Secondary contact name		HCF IT
Secondary contact Email		HCF IT
Secondary contact Phone		HCF IT

HCF - CathLab identification X-ray system		Responsibility
Cathlab / room name	E.g Hybryd_OK1	HCF IT
Cathlab/Room ID		HCF IT
Physical location in HCF		HCF IT
HCF Project Manager/ BioMed		**Responsibility**
Contact name		Philips PM
Email address		Philips PM
Phone number		Philips PM
Secondary contact name		Philips PM
Secondary contact Email		Philips PM
Secondary contact Phone		Philips PM
Philips Lead installer		**Responsibility**
Contact name		Philips PM
Email address		Philips PM
Phone number		Philips PM
Secondary contact name		Philips PM
Secondary contact Email		Philips PM
Secondary contact Phone		Philips PM
PRS Lead		**Responsibility**
Contact name		Philips PM
Email address		Philips PM
Phone number		Philips PM
Secondary contact name		Philips PM
Secondary contact Email		Philips PM
Secondary contact Phone		Philips PM

X-ray system (Basic)

Local X-ray system		Responsibility
System Type	E.g. Hospital X	PHILIPS
Serial number		PHILIPS
IP sec enabled	Select Yes or No	HCF IT
HostName	SUITE-PC (always for Azurion)	HCF IT
MAC Address		PHILIPS
IP Address		HCF IT
AE Title	LOCAL_AETITLE	HCF IT
Port Number		HCF IT
AE Title AluraRIS	AE_ALLURA_RIS	HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Hospital network		**Responsibility**
Internet protocol used at HCF	IPv4/IPv6	HCF IT
Subnet Mask / Subnet prefix length		HCF IT
Default Gateway / Gateway		HCF IT
Remote service options		**Responsibility**
Remote Service part of contract	Select Yes or No	PHILIPS PRS lead
RSG available	None/ RSG onsite(HSEdge/ RSG Cloud(CMVPN)/ RSG Cloud(Internet)	PHILIPS PRS lead
Proactive and Reactive Monitoring	Select Yes or No	PHILIPS PRS lead
Remote Desktop Connection	Select Yes or No	PHILIPS PRS lead
Software Distribution and Installation	Select Yes or No	PHILIPS PRS lead
Coronary Tools		**Responsibility**
Available in cathlab	Select Yes or No	PHILIPS
Physical location	Control Room/R-cabinet/B-cabinet	PHILIPS
Physical location in (R-)(I)B-)cabinet	Pos1/Pos2/Pos3/Pos4/N.A.	PHILIPS
HostName		HCF IT
MAC Address		PHILIPS
IP Address		HCF IT
AE Title (Storage Node)		HCF IT
AE Title (Storage Commit)		HCF IT
Port Number (Storage Commit)		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
EchoNavigator		**Responsibility**
Available in cathlab	Select Yes or No	PHILIPS
Physical location	Control Room/R-cabinet/B-cabinet	PHILIPS
Physical location in (R-)(I)B-)cabinet	Pos1/Pos2/Pos3/Pos4/N.A.	PHILIPS
HostName		HCF IT
MAC Address		PHILIPS
IP Address		HCF IT

Interventional workspot (IW)		Responsibility
Available in cathlab	Select Yes or No	Philips PM
Physical location	Control Room/R-cabinet/B-cabinet	Philips PM
Physical location in (R-)(I)B-)cabinet	Pos1/Pos2/Pos3/Pos4/N.A.	Philips PM
IP sec enabled	Select Yes or No	HCF IT
HostName		HCF IT
MAC Address		PHILIPS
IP Address		HCF IT
AE Title	RSXVimport	HCF IT
Port Number	4110	HCF IT
AE Title IWXrayMod	XVimport	HCF IT
Port Number	3110	HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT

Network & Services

Windows printer		Responsibility
Physical location	Select Yes or No	HCF IT
Compatible Windows release		HCF IT
IP sec enabled	Select Yes or No	HCF IT
Printer type	e.g. Win10, Win7	HCF IT
HostName		HCF IT
IP Address		HCF IT
Port Number		HCF IT
DICOM printer 1**		**Responsibility**
Physical location		HCF IT
Printer type		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Port Number		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Structured Report Server 1		**Responsibility**
Physical location		HCF IT
Model name		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Port Number		HCF IT

MPPS		Responsibility
Physical location		HCF IT
Model name		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Port Number		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Certificate name / License		HCF IT
PPSM IHE compatible	Select Yes or No	HCF IT
Remote system/PACS 1**		**Responsibility**
Physical location		HCF IT
Model name		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Port Number		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Services		
Store AETitle		HCF IT
Store PortNumber		HCF IT
Move AETitle		HCF IT
Move PortNumber		HCF IT
QR AETitle		HCF IT
QR PortNumber		HCF IT
SC AETitle		HCF IT
QR PortNumber		HCF IT
RDSR AETitle		HCF IT
RDSR PortNumber		HCF IT
WorkList Management		**Responsibility**
Physical location		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Port Number		HCF IT
Automatic query schedule date	24 hrs / infinite	HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Certificate name / License		HCF IT

TimeSync (NTP)		Responsibility
Physical location		HCF IT
IP sec enabled	Select Yes or No	HCF IT
HostName		HCF IT
IP Address		HCF IT
FQDN		HCF IT
RIS Basic		**Responsibility**
Physical location		HCF IT
HostName		HCF IT
IP Address		HCF IT
AE Title		HCF IT
Max PDU size	16384 (Allura), 64234 (Azurion)	HCF IT
DNS		**Responsibility**
Physical location		HCF IT
IP sec enabled	Select Yes or No	HCF IT
HostName		HCF IT
IP Address		HCF IT
FQDN		HCF IT
Audit trail server		**Responsibility**
Physical location		HCF IT
Local audit repository	Enabled / Disabled	HCF IT
Central audit repository	Enabled / Disabled	HCF IT
HostName		HCF IT
IP Address		HCF IT
FQDN		HCF IT
Network protocol	IPv4/IPv6	HCF IT
Port Number		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
Other		**Responsibility**
Physical location		HCF IT
Model name		HCF IT
HostName		HCF IT
MAC Address		FSE
IP Address		HCF IT
AE Title		HCF IT
Secure communication		
Use authentication	Select Yes or No	HCF IT
Use encryption	Select Yes or No	HCF IT
DHCP Server		**Responsibility**
Physical location		HCF IT
IP sec enabled	Select Yes or No	HCF IT
HostName		HCF IT
IP Address		HCF IT

Info & instructions for Philips FSE/Hospital IT (in case of remote connection via ServiceHub)

ServiceHub		Responsibility
Static or DHCP	Select Yes or No	HCF IT
IP address	Select Yes or No	HCF IT
Subnet Mask / Subnet prefix length	(should be same for all medical devices)	HCF IT
Default Gateway / Gateway	(should be same for all medical devices)	HCF IT
MAC address		PHILIPS RSE/FSE
Audit trail connection	Select Yes or No	HCF IT
Time Server Connection	Select Yes or No	HCF IT
RSGoP via HSEdge		**Responsibility**
IP address		PHILIPS PRS lead
Host name		PHILIPS PRS lead
FQDN		PHILIPS PRS lead
Port Number		PHILIPS PRS lead
RSGoC via CMVPN		**Responsibility**
IP address		PHILIPS PRS lead
Endpoint		PHILIPS PRS lead
RSGoP via internet		**Responsibility**
Proxy (optional)	Select Yes or No	PHILIPS PRS lead
IP address (optional)		PHILIPS PRS lead
FQDN (optional)		PHILIPS PRS lead
Port Number (optional)		PHILIPS PRS lead
Username (optional)		PHILIPS PRS lead
Password (optional)		PHILIPS PRS lead
HS Cloud Concentrator (optional)	Select Yes or No	PHILIPS PRS lead
Region		PHILIPS PRS lead
End point		PHILIPS PRS lead

Info & instructions for Bio-Med/Hospital IT (in case of remote connection via PSA/M2M)

Configure the hospital network for one of the following remote connection types, according to the data supplied on this sheet (open ports in firewall)
+ VPN connection
+ VPN connection with source NAT
+ ISSL connection
+ ISSL connection with proxy server
Type the local IP addresses, subnet maks and Gateway settings of the remotely connected products in the highlighted cells

VPN Standard

Philips Product	Local IP address	Subnet mask	Gateway	Direction	Port	Protocol	Usage	Philips RSN IP range
Azurion X-ray System	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Outbound to	443	HTTPS	For Remote Services Support	https://192.68.49.0/24
				Inbound from	Ping	ICMP Echo	Reachability check	
				Inbound from	22	SFTP	Azurion R2.1 or higher	
Allura Xper X-ray System	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Outbound to	443	HTTPS	For Remote Services Support	https://192.68.49.0/24
				Inbound from	Ping	ICMP Echo	Reachability check	
				Inbound from	21	FTP	Windows XP only	
Interventional workspot	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Outbound to	443	HTTPS	For Remote Services Support	https://192.68.49.0/24
				Inbound from	Ping	ICMP Echo	Reachability check	
Coronary Tools	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Outbound to	443	HTTPS	For Remote Services Support	https://192.68.49.0/24
				Inbound from	Ping	ICMP Echo	Reachability check	
EchoNavigator	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Outbound to	443	HTTPS	For Remote Services Support	https://192.68.49.0/24
				Inbound from	Ping	ICMP Echo	Reachability check	
Philips Hemo	<fill in local IP address>	<fill in local subnet mask >	<fill in local Gateway>	Inbound from	22	SFTP		

VPN with source NAT

Philips Product	"Source NAT servers - Fixed Philips IP range"	"Source NAT servers - Customer defined symmetrical Source NAT IP"
Azurion X-ray System	Server Address: https://192.68.49.49 Tunnel Address: https://192.68.49.50 Registration Adress: https://192.68.49.140 oneAVS security server: - https://192.68.49.12 - https://192.68.49.29	Server Adress : https://62.130.250.49 Tunnel Adress : https://62.130.250.50 Registration Adress: https://62.130.250.140 oneAVS security server: - https://192.68.49.12 - https://192.68.49.29
Allura X-ray System		
Interventional workspot		
Coronary Tools		
EchoNavigator		
ServiceHub		
Philips Hemo		

ISSL standard:

Philips Product	Local IP address	Direction	Port	Protocol	Philips RSN DNS	Usage
Azurion X-ray System	<fill in local IP address>	Outbound To	443	HTTPS	"https://ws-m2m.prs.healthcare.philips.com https://tw-m2m.prs.healthcare.philips.com https://cw-m2m.prs.healthcare.philips.com"	For remote services support
Allura X-ray System	<fill in local IP address>					
Interventional workspot	<fill in local IP address>					
Coronary Tools	<fill in local IP address>					
EchoNavigator	<fill in local IP address>					
Philips Hemo	No ISSL Support					

ISSL with proxy server: Configure "ISSL standard" and also collect the proxy server settings

Philips Product	Proxy Server IP address	Proxy Server port number	Proxy Server User name	Proxy Server Password	NTLM (NT Lan Manager)
Azurion X-ray System	<fill in local Proxy Server IP address>	<fill in local Proxy Server port number >	<fill in local Proxy Server User Name >	<fill in local Proxy Server Password	<NTLM available Yes / No >
Allura X-ray System					
Interventional workspot					
Coronary Tools					
EchoNavigator					
Philips Hemo	No ISSL Support				

(25.0)

Networking Ports

Network Ports	From	To	Both Directions?	Protocol	Task	Azurion System	Interventional Workspot (IWS)	EchoNavigator	Coronary Tools	IntraSight	SyncVision	FORS	ServiceHub
						Philips Devices							
22	FSE Laptop Medical device Philips Remote Services	ServiceHub ServiceHub ServiceHub	Yes Yes Yes	TCP TCP TCP	For file transfer operations from FSE laptop to ServiceHub To transfer logfiles from Medical device to ServiceHub For file transfer operations from Philips Remote Services to ServiceHub								x x x
67-68	Philips Devices	Hospital DHCP Server	Yes	UDP	DHCP Server	o	o	o	o	o		o	o
104 or 11112	Philips Devices	Hospital PACS/RIS	No	TCP	DICOM - PACS, RIS WLM and DICOM Printing	x	x	x	x	x		x	
123	Philips Devices	Hospital NTP Server	No	UDP	Time server	o	o	o	o	o	o	o	o
137	Philips Devices	Hospital Network Printer	No	UDP	Regular paper printing for WINS Windows Internet Naming Service (name lookup for SMB printing)	o							
139	Philips Devices	Hospital Network Printer	No	TCP	Regular paper printing for SMB printing.	o							
161	Philips Devices	Hospital Network Printer	No	UDP	Regular paper printing for SNMP browsing (broadcast) and status monitoring (directed to printer IP address)	o							
443	FSE laptop Remote Services Gateway ServiceHub	ServiceHub ServiceHub Philips oneAVS server	No No No	TCP TCP TCP	To access ServiceHub dashboard Service interaction from Remotes Service Gateway Interaction with Philips oneAVS server								x x x
514	Philips Devices	Hospital Server	No	UDP/TCP	Audit Trail	o	o		o			o	o
515	Philips Devices	Hospital Network Printer	No	TCP	Regular paper printing for Line Printer Daemon (LPD/lpr) print job submission and status monitoring.	o							
2011	Medical device	ServiceHub	No	TCP	Medical device registration on PRS								x
4110	Hospital PACS	Philips Devices	No	TCP	DICOM - PACS		x					x	
5353	ServiceHub	Medical device	Yes	UDP	Discovery of medical devices in the lab								x
5660	Philips Remote Services FSE laptop	ServiceHub ServiceHub	No No	TCP/UDP TCP/UDP	Service engineer authentication to access ServiceHub Dashboard from PRS Service engineer authentication to access ServiceHub Dashboard from the FSE Laptop								x x
5614	Philips Devices	Hospital Server	No	UDP/TCP	Audit Trail Secure	o	o		o			o	o
8443	ServiceHub	Remote Services Gateway on HealthSuite Edge	No	TCP	Interaction with Remote Services Gateway on HealthSuite Edge This is the default port, the port can be changed by the hospital								x
9100-9102	Philips Devices	Hospital Network Printer	No	TCP	Regular paper printing for Raw print data stream (AppSocket/JetDirect)								
29530-29540	Hospital PACS	Philips Devices	No	TCP	DICOM - PACS (required for patient administration)	x							
50000 - 59999	ServiceHub	Medical device	No	TCP	Service interactions								x

x = standard / present
o = optional

ServiceHub Whitelisting

Communication	Port	Protocol	Direction
RSGoP (Variant 1)			
Device to HS RSG (on prem)	8443	HTTPS	OUT
Device to HS RSG first communication	8440	HTTPS	OUT
From PRS (192.68.49.0 /24) to Device			
IST authentication	5660	SSH	IN
SFTP and webUI	22	SSH	IN
RSGoC (Variant 2)			
From PRS (192.68.49.0 /24) to Device			
IST authentication	5660	SSH	IN
SFTP and webUI	22	SSH	IN
From device to PRS (192.68.49.0 /24)			
Device to HS RSG (cloud)	443	HTTPS	OUT
All backend services in HS Cloud are hosted behind a Cloud Concentrator addressable through 192.68.49.0			
RSGoC (Variant 3)			
Device to HS RSG (direct cloud)	443	HTTPS	OUT
Following Domains need to be whitelisted by the healthcare facility			
* philips-healthsuite.com			
* hsdp.io			

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03.31.2025

PHILIPS

Wayne Memorial Hospital Inc
Goldsboro, NC
PROVISIONAL

Drawing Title
NETWORK NOTES
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Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com

Drawn By: Pablo Arosemena

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

NN

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Charlotte, NC 28209
CPLteam.com
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UNC HEALTH Wayne

PROJECT INFORMATION
Project Number
R25.18089.00
Client Name
UNC HEALTH WAYNE
Project Name
CATH LAB RENOVATION
Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533
CDH Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE
#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION
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Checked By: CPL
Drawing Title: PHILIPS (FOR REFERENCE ONLY)
Drawing Number: -

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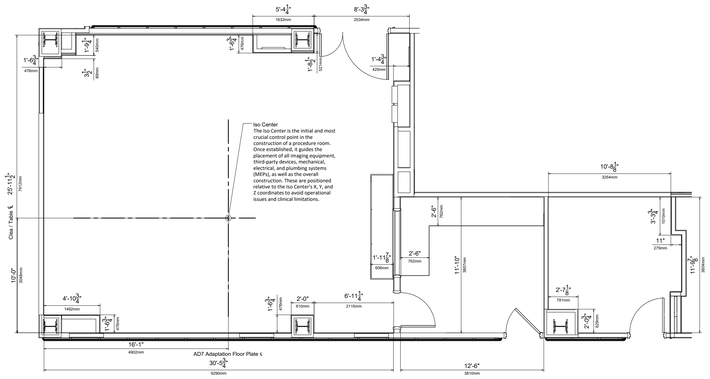

1 / A1 SITE LAYOUT (ref.)

SCALE: 3/16" = 1' - 0"

Required Unistrut Height: 9' - 6$\frac{1}{4}$", ±$\frac{1}{8}$" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

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03.31.2025

PHILIPS PROVISIONAL

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
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Contact Number: (919) 698-1259
Email: william.haynes@philips.com
Drawn By: Pablo Aroseneva

Project Details
Drawing Number: N-EAS250328_RevB
Date Drawn: 10/7/2025
Drawing Number: C10080724
Order: None

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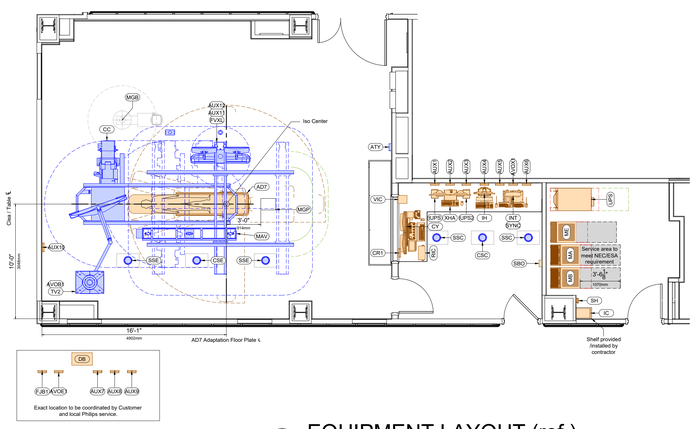

2 / A1 EQUIPMENT LAYOUT (ref.)

SCALE: 3/16" = 1' - 0"

Required Unistrut Height: 9' - 6$\frac{1}{4}$", ±$\frac{1}{8}$" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

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Philips Contacts
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Drawing Number: N-EAS250328_RevB
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Drawing Number: C10080724
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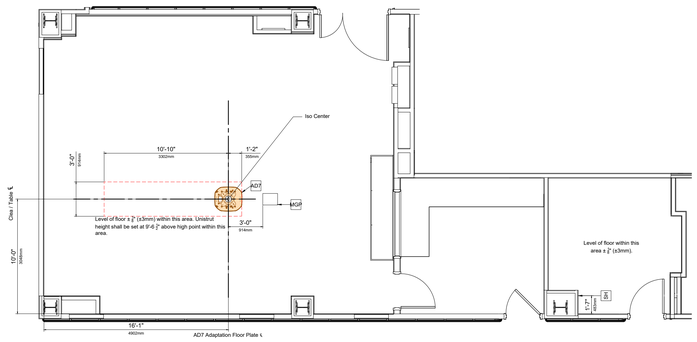

1 / S1 FLOOR & WALL SUPPORT LAYOUT (ref.)

SCALE: 3/16" = 1'-0"

Required Unistrut Height: 9' - 6$\frac{1}{4}$", ±$\frac{1}{8}$" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

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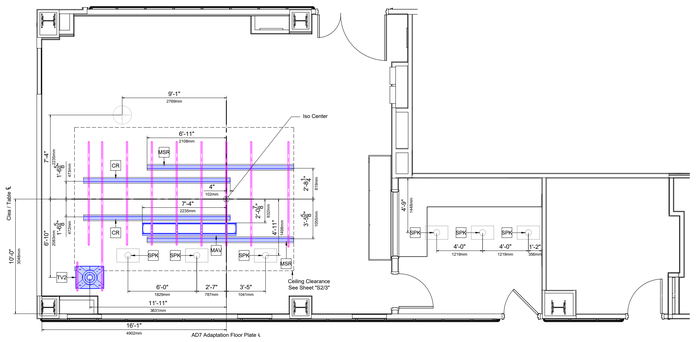

1 / S2 CEILING SUPPORT LAYOUT - EQUIPMENT (ref.)

SCALE: 3/16" = 1'-0"

Required Unistrut Height: 9' - 6$\frac{1}{4}$", ±$\frac{1}{8}$" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

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Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
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Drawn By: Pablo Aroseneva

Project Details
Drawing Number: N-EAS250328_RevB
Date Drawn: 10/7/2025
Drawing Number: C10080724
Order: None

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UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

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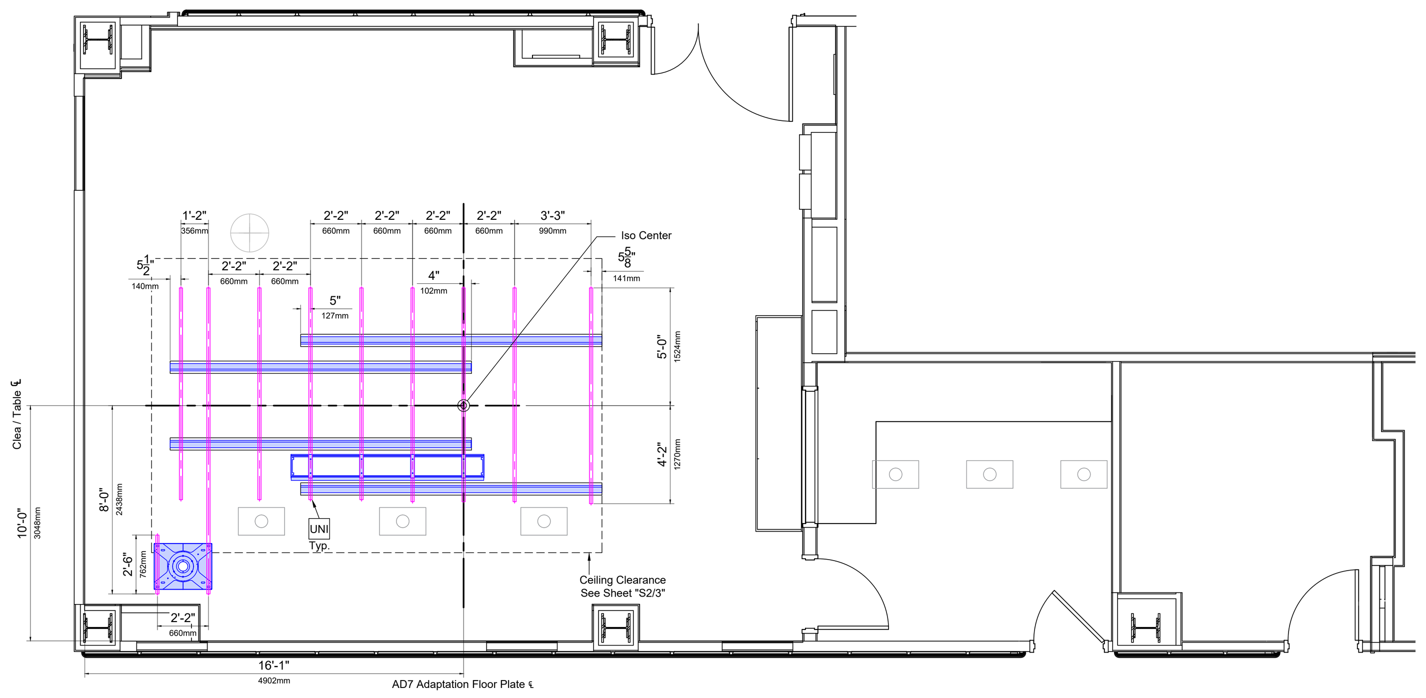

CEILING SUPPORT LAYOUT - UNISTRUT (ref.)

2 / S2

SCALE: 3/16" = 1'-0"

Required Unistrut Height: 9' - 6 1/2", ±1/8" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

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Project Details
Drawing Number
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Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com
Drawn By: Pablo Arosemena

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

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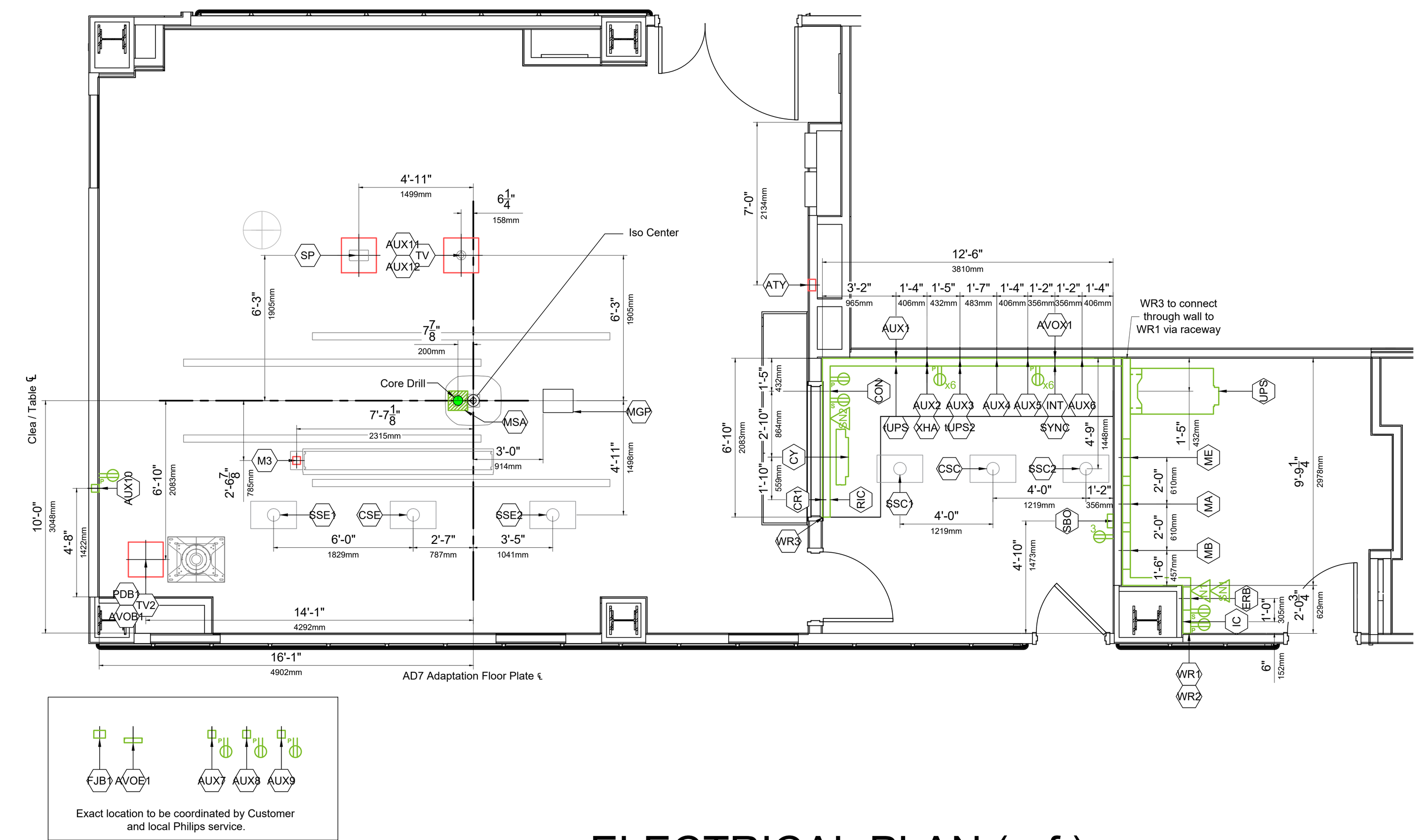

ELECTRICAL PLAN (ref.)

1 / E1

SCALE: 3/16" = 1'-0"

Required Unistrut Height: 9' - 6 1/2", ±1/8" (2908mm, ±3mm) Unistrut height measured from finished floor to bottom of Unistrut.

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Quote: Q-00598724
Order: None

Philips Contacts
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Contact Number: (919) 698-1259
Email: william.haynes@philips.com
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Wayne Memorial Hospital Inc
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Point to Point Run Lengths

Electrician Requirements and Notes

1. A Greenlee measuring tape (part no. 435) must be provided with raceway (conduit) runs
2. All raceway (conduit) runs must take most direct route point to point.
3. All conduits shall be labeled and identified at each end by run number/destination.
4. For conduit use the minimum bending radius specific to the conduit diameter. All conduit and raceway shall be sweeps.

- A Raceway (Conduit) supplied/installed by contractor - Philips cables installed by Philips
- B Raceway (Conduit) supplied/installed by contractor - Philips cables installed by contractor
- C Raceway (Conduits) and cables supplied and installed by contractor
- D Raceway (Conduit) existing - cables supplied and installed by Philips
- E Raceway (Conduit) existing - cables supplied by Philips and installed by contractor
- F Raceway (Conduit) existing - cables supplied and installed by contractor
- G Optional equipment, verify with local Philips Service

* P Power (AC), D Power (DC), G Ground, S Signal, H High Tension, C Cooling Hose, A Air Supply Hose

	Raceway (Conduit) Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements	(REQUIRED) Electrician to document point to point measurements
C	1	ERB	Third Party Room Outlets	-	G	-	-	For Injector, Auxiliary Box, Patient Monitoring, Video Networking, etc.	
C	2	ERB		1	G	3/4"	-	See Sheet "2-ED" for details.	
A	3	SP	ME	1	C	2 1/2"	48'	Tube Cooling Hoses.	
A	4	SP	ME	1	H	2 1/2"	42'	X-Ray high-voltage cables, the use of 90 deg. ells is not acceptable.	
A	5	SP	MA	1	P/G	1 1/2"	42'	-	
A	6	SP	ME	1	P/G	1 1/2"	44'	-	
A	7	SP	MA	1	S	2"	42'	-	
A	8	SP	ME	1	S	1"	44'	-	
A	9	MSA	MA	1	P/G	2"	44'	-	
A	10	MSA	MA	1	S	3"	44'	-	
A	11	MSA	MB	1	S	1"	44'	-	
A	12	TV	MA	1	P	1 1/2"	60'	-	
A	13	TV	MB	1	P/G	1 1/2"	60'	-	
A	14	TV	MB	1	S	1 1/2"	60'	For FlexVision XL.	
A	15	TV	CY	1	S	1"	60'	-	
A	16	ATY	TV	1	S	1"	60'	-	
A	17	CY	MA	1	S	3"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	18	CY	MB	1	S	1 1/2"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	19	CY	MA	1	P/G	2"	60'	Conduits to land on wall raceway adjacent to CY. Via raceway.	
A	20	CY	MB	1	S	2"	86'	Conduits to land on wall raceway adjacent to CY. For Philips Workstations. Via raceway.	
A	21	ATY	MA	1	S	2"	47'	-	
C	22	SN1	SN2	1	S	1"	-	For Service Hub. Dedicated conduit and CAT-6 network connection terminated at each end (not allowed with x-ray system cabling).	
C	23	WL	MA	1	P	PER NEC	PER NEC	X-ray Warning Light Refer to Detail 3-ED	
C	24	RL	MA	1	P	PER NEC	PER NEC	Exam Room Light Refer to Detail 3-ED	
~~C~~	~~25~~	~~MSA~~	~~PHY~~	~~1~~	~~S~~	~~3"~~	~~-~~	Conduit removed 10/7/2025.	
A	26	AUX1	MB	1	S	1 1/2"	86'	Via raceway.	
A	27	AUX2	MB	1	S	1 1/2"	86'	Via raceway.	
A	28	AUX3	MB	1	S	1 1/2"	86'	Via raceway.	
A	29	AUX4	MB	1	S	1 1/2"	86'	Via raceway.	
A	30	AUX5	MB	1	S	1 1/2"	86'	Via raceway.	

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PHILIPS PROVISIONAL

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

Philips Contacts
Project Manager: William Haynes
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Drawn By: Pablo Arosemena

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

R-EC1

03.31.2025

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Point to Point Run Lengths

Electrician Requirements and Notes

1. A Greenlee measuring tape (part no. 435) must be provided with raceway (conduit) runs
2. All raceway (conduit) runs must take most direct route point to point.
3. All conduits shall be labeled and identified at each end by run number/destination.
4. For conduit use the minimum bending radius specific to the conduit diameter. All conduit and raceway shall be sweeps.

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- G Optional equipment, verify with local Philips Service

* P Power (AC), D Power (DC), G Ground, S Signal, H High Tension, C Cooling Hose, A Air Supply Hose

	Raceway (Conduit) Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements	(REQUIRED) Electrician to document point to point measurements
A	31	AUX6	MB	1	S	1 1/2"	86'	Via raceway.	
A	32	AUX7	MB	1	S	1 1/2"	86'	-	
A	33	AUX8	MB	1	S	1 1/2"	86'	-	
A	34	AUX9	MB	1	S	1 1/2"	86'	-	
A	35	AUX10	MB	1	S	1 1/2"	86'	-	
C	36	MSA	MGP	1	-	2"	-	For med gas pedestal.	
A	37	INT	MSA	1	P	1 1/2"	75'	Conduit opening must be covered if the IntraSight system is planned for future installation.	
A	38	INT	MSA	1	S	1 1/2"	75'	Conduit opening must be covered if the IntraSight system is planned for future installation.	
A	39	AVOX1	MB	1	S	1 1/2"	86'	For SyncVision. Via raceway.	
A	40	FJB1	MB	1	P/G	1 1/2"	86'	For AVOE1.	
A	41	FJB1	MB	1	S	1 1/2"	86'	For AVOE1.	
A	42	IC	MSA	1	S	3"	65'	For Table Mounted Injector.	
A	43	IC	RIC	1	S	3"	90'	Via raceway.	
B	44	CON	TV	1	S	1"	50'	For Exam Room Microphone Coaxial cable.	
B	45	CON	SSE1	1	S	1"	50'	Exam room speaker (x3) ethernet cable.	
B	46	CON	SSC1	1	S	1"	50'	Control room speaker (x3) ethernet cable.	
C	47	Power Supply	M3	1	P	3/4"	-	Project electrician to land 120 - 240 VAC, 50 - 60 Hz in M3 terminal block. Light requires: Plus 24, Minus 24, and Ground.	
C	48	Power Panel	CB2	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	49	CB2	UPS	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	50	UPS	CB	1	P/G	Per N.E.C.	Per N.E.C.	3 AWG minimum phase/ground wire size.	
C	51	CB	WR2	1	P/G	Per N.E.C.	Per N.E.C.	4 AWG minimum phase/ground wire size. Final connections to terminate at MA terminal block.	
C	52	SBO	UPS	1	S	Per N.E.C.	Per N.E.C.	For Signaling Box Option. Cable by electrician.	
B	53	UPS	MA	1	S	Per N.E.C.	Per N.E.C.	UPS communication cable by Socomec.	
C	54	UPS	ST	1	S	Per N.E.C.	Per N.E.C.		
C	55	CB	ST	1	P	Per N.E.C.	Per N.E.C.		
G	56	CB2	ST	1	P	Per N.E.C.	Per N.E.C.		
A	57	PDB1	MB	1	P/G	1 1/2"	60'	For AVOB1 and TV2.	
A	58	PDB1	MB	1	S	1 1/2"	60'	For AVOB1 and TV2.	
A	59	MSA	XHA	1	S	2 1/2"	100'	For Xper Hemo App.	
A	60	MSA	UPS	1	P	1 1/2"	100'	For Xper Hemo App.	

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PHILIPS PROVISIONAL

Project Details
Drawing Number
N-EAS250328_RevB
Date Drawn: 10/7/2025
Quote: Q-00598724
Order: None

Philips Contacts
Project Manager: William Haynes
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Drawn By: Pablo Arosemena

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

R-EC2

03.31.2025

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3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH® Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued: 11/14/2025
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Project Status: FINAL CONSTRUCTION DRAWINGS

Drawn By: CPL
Checked By: CPL

Drawing Title: PHILIPS (FOR REFERENCE ONLY)

Drawing Number
-
PHILIPS-R2

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Point to Point Run Lengths

Electrician Requirements and Notes

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	Raceway (Conduit)									
	Run No.	From	To	Raceway (Conduit) Quantity	Cable Type (*)	Minimum Raceway (Conduit) Size	Maximum Point to Point Run Length	Special Requirements	REQUIRED! Electrician to document point to point measurements
A	61	TV	XHA	1	P	1 1/2"	100'	For Xper Hemo App.	
A	62	TV	AUX	1	S	1"	98'	For Xper Hemo App.	

PHILIPS PROVISIONAL

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com
Drawn By: Pablo Arosemena

Project Details
Drawing Number: N-EAS250328_RevB
Date Drawn: 10/7/2025
Date Issued: 03/31/2025
Order: None

R-EC3

03.31.2025

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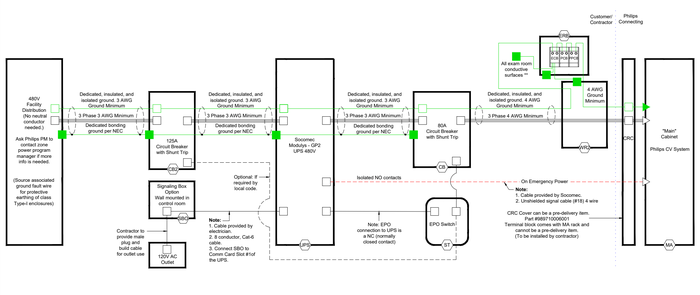

Legend

- Wiring and Connections made by Contractor unless otherwise noted. Isolated from metal casing.
- Bond / Safety ground wiring and Connections made by Contractor. Connections that are connected to metal casing (e.g. outer housing, frame)
- Ewnlated / Isolated Ground wiring and Connections made by Contractor for equipment grounding conductor. Isolated from metal casing.
- Wiring Connection made by Philips
- Ground wiring Connection made by Philips
- Supply conductors installed together with equipment grounding conductor in the raceway (conduit).

Notes

- Wiring and circuit sizes from source supply must meet Philips regulation requirements and must be determined by contractor to meet building conditions and local codes. 3 Phase + PE (Protective Earth).
- KAP needs to be mounted to the wall by contractor.
- Wire sizes will be dependent on:
  1. Lug size of UPS and MA terminal block
  2. The tolerance on the allowed nominal mains voltage shall not exceed ±10%.
  3. MA CRC Terminal Block can only accept 4 AWG.
- Full UPS assembly, all wiring, installation, Battery Module/Power Module insertion (for modular systems), and startup in bypass is the responsibility of the electrician unless it is specifically stated otherwise. If electrical work is not completed when commissioning is scheduled there may be a second visit scheduled resulting in delay of timeline and additional cost.
- All Power Cables shall be in separate conduits from control and communication cables.
- ** This equipment may be used for invasive procedures; therefore, the area to be installed is classified as critical care area per NFPA-99 and NFPA-70 (NEC). These documents specify maximum touch voltages and ground impedance in these areas.
- ** The GSSNA specified "Equi-Potential Reference Bar (ERB)" serves as a ground reference for GSSNA equipment. It may also serve as the "Reference Grounding Point" of the room as defined in NFPA 99-3.3.140 for non-Philips Healthcare equipment.

5 ED — ELECTRICAL SCHEMATIC WITH SOCOMEC LLF DETAIL (ref.)

SCALE: N.T.S.

PHILIPS PROVISIONAL

Project
Azurion 7 C20
Wayne Memorial Hospital Inc
Goldsboro, NC
Room: GC119

Philips Contacts
Project Manager: William Haynes
Contact Number: (919) 698-1259
Email: william.haynes@philips.com
Drawn By: Pablo Arosemena

Project Details
Drawing Number: N-EAS250328_RevB
Date Drawn: 10/7/2025
Date Issued: 03/31/2025
Order: None

R-ED.5

03.31.2025

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NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued: 11/14/2025
Scale:
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: PHILIPS (FOR REFERENCE ONLY)
Drawing Number: -

PHILIPS-R3

11/12/2025 11:28:15 AM PROJECT FILES ON ACC

TABLE OF CONTENTS

N1.X NOTES
A1.X ARCHITECTURAL PLAN VIEWS
A2.X ARCHITECTURAL ELEVATION VIEWS
S1.X STRUCTURAL LOAD TABLE
S2.X STRUCTURAL DETAIL VIEWS
P1.X PLUMBING DETAIL VIEWS
E1.X ELECTRICAL SCHEDULE
E2.X ELECTRICAL DETAIL VIEWS
C1.X BOOM CONFIGURATION SHEETS

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JACOB ABBOTT
507-208-8585

SALES REP:
RYAN PRIMUS
919-272-8131

DESIGNED BY:
M. AQUAS

SIGNATURES:

SELECT ONE:
☐ ALL SHEETS APPROVED
☐ APPROVED WITH CHANGES

APPROVED BY (PRINT):

APPROVED BY (SIGNATURE):

APPROVAL DATE:

DELIVERY DATE:

ACCOUNT NAME & LOCATION:

WAYNE COUNTY MEMORIAL HOSPITAL CATH LAB

GOLDSBORO, NJ

DRAWING REVISION SUMMARY

REV #	BY:	DATE:	DESCRIPTION:
–	MFA	9/22/2025	ORIGINAL DRAWING PACKAGE
A	MFA	9/30/2025	UPDATE SERVICE CONFIGURATION

PROJECT SCOPE: CATH LAB

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

DRAWING NUMBER: M1798-006

REVISION LEVEL: A

INSTALLATION AND PROJECT RESPONSIBILITIES

1. GETINGE RESPONSIBILITIES:
   - A) UNCRATING OF HEALTHCARE EQUIPMENT IS INCLUDED; UNCRATING OF LIFE SCIENCE EQUIPMENT IS QUOTED AS AN OPTION.
   - A. FOR HEALTHCARE ACCOUNTS, TRANSPORT OF EQUIPMENT FROM LOADING DOCK (IN SAME BUILDING AS INSTALLATION TO INSTALLATION AREA IS PROVIDED. FREE AND CLEAR ACCESS
     - A.1. MUST BE AVAILABLE INCLUDING PROPERLY SIZED AND RATED ELEVATORS. INCLUDES THE USE OF A RIGGER FOR CART WASHERS, INDEX WASHERS AND AIR GUIDE SYSTEMS.
     - A.2. ADDITIONAL CHARGES WILL APPLY FOR THE USE OF A CRANE, LULL OR FOR ACCESS OBSTACLES.
   - B. INLAND FREIGHT AND RIGGING OF ALL LIFE SCIENCE EQUIPMENT IS QUOTED AS AN OPTION.
   - C. FINAL SET-IN-PLACE, HANG AND LEVEL TO WALL OR CEILING/LAG TO THE FLOOR (SEISMIC ANCHORING IS AVAILABLE AT AN ADDITIONAL COST).
   - D. FOR CEILING MOUNTED PRODUCTS, PROVIDE MOUNTING PLATES/TEMPLATES AS WELL AS GAS AND VACUUM RISERS AS REQUIRED.
   - E. REMOVE ASSOCIATED DEBRIS TO CUSTOMER PROVIDED ONSITE RECEPTACLE.
   - F. PERFORM FINAL CHECKOUT AND STARTUP OF EQUIPMENT. MAINTENANCE TRAINING IS NOT INCLUDED BUT CAN BE QUOTED BY SALES AT AN ADDITIONAL COST.
   - G. REMOVAL OF EXISTING EQUIPMENT TO FACILITY LOADING DOCK ONLY IF REMOVAL WAS QUOTED. DISPOSAL IS NOT INCLUDED IN REMOVAL AND WILL BE QUOTED AS A SEPARATE LINE ITEM.

2. CUSTOMER RESPONSIBILITIES:
   - A) REVIEW THE ORDER CONFIRMATION COMMUNICATION FROM GETINGE FOR ACCURACY INCLUDING THE DELIVERY DATE (MAY NOT LISTED FOR ALL EQUIPMENT).
   - B) SHOULD CUSTOMER NEED TO RESCHEDULE THE DELIVERY DATE, CUSTOMER HEREBY AGREES TO RECEIVE PRODUCT ON THE DELIVERY DATE ON THE ORIGINAL ORDER CONFIRMATION AND MAKE NECESSARY ARRANGEMENTS TO STORE PRODUCT AT CUSTOMER'S EXPENSE, IF NECESSARY.
   - C) UNLOAD, RECEIVE AND HOLD IN AN ACCEPTABLE PROTECTED AREA FOR INSTALLATION UNLESS PURCHASED SEPARATELY.
     - 1.a. CUSTOMER MUST REPORT ANY VISIBLE DAMAGE TO PRODUCTS ON THE FREIGHT RECEIPT AT THE TIME OF DELIVERY.
     - 1.b. CUSTOMER IS RESPONSIBLE FOR ENSURING STORAGE ENVIRONMENT MEETS THE EQUIPMENT REQUIREMENTS.
   - D) PROVIDE AN "ON-SITE" LOADING DOCK CAPABLE OF ACCEPTING NON-POWER TAILGATE DELIVERY.
   - E) INGRESS AND EGRESS PATHWAYS MUST BE CLEAR OF ITEMS IN THE PATH OF MOBILIZATION (SPRINKLER HEADS, EXIT SIGNS, UTILITY PIPING AND WALL GUARDS.
   - F) ALL DOOR OPENINGS MUST BE CAPABLE OF ACCEPTING EQUIPMENT WITHOUT REMOVAL OF PANELS, PIPING, DOORFRAMES, ETC.
   - G) PROVIDE, IF APPLICABLE, ELEVATORS CAPABLE OF ACCEPTING EQUIPMENT, I.E., WEIGHT, SIZE, ETC.
   - H) INSTALLATION AREA MUST BE CLEAN, NEAR COMPLETION, FLOOR AND CEILING INSTALLED WITH PAINTING COMPLETED.
   - I) UTILITIES MUST BE IN ACCORDANCE WITH PRODUCT ROUGH-IN SPECIFICATIONS. CUSTOMER MUST VERIFY ALL ARE IN PLACE BEFORE INSTALLATION BEGINS.
   - J) MAKE FINAL ELECTRICAL, AND GAS CONNECTIONS FOR CEILING LIGHTS, PENDANTS AND VIDEO. UTILITIES MUST BE IN ACCORDANCE WITH PRODUCT ROUGH-IN SPECIFICATIONS AND ACCESSIBLE WITHIN TWO LINEAR FEET OF THE LIGHTS AND PENDANTS.
   - K) MAKE FINAL UTILITY CONNECTIONS ON ALL INFECTION CONTROL, HEALTHCARE AND LIFE SCIENCE EQUIPMENT. UTILITIES MUST BE IN ACCORDANCE WITH PRODUCT ROUGH-IN SPECIFICATIONS, WITHIN FIVE LINEAR FEET OF EQUIPMENT INSTALLATION.
   - L) ENSURE ALL CUSTOMER PROVIDED SUPPLIES AND UTILITIES ARE PRESENT, VALIDATED (IF REQUIRED) AND MEET THE EQUIPMENT REQUIREMENTS. THIS INCLUDES, BUT NOT LIMITED TO, MEDIA, DATA CABLES, VENTILATION, CHEMICALS AND SUPPLIES.
   - M) PROVIDE ELECTRICAL DISCONNECTS, SHUT OFF VALVES, BACK-FLOW PREVENTERS, PRESSURE REDUCING VALVES, BY WAY OF EXAMPLE, AS REQUIRED BY LOCAL CODES. CERTIFY FINAL MEDICAL GAS AND ELECTRICAL CONNECTIONS FOR CEILING PENDANTS AS STIPULATED BY NEC, NFPA AND LOCAL CODES.
   - N) INSTALLATION OF GETINGE SUPPLIED PIT PLATES, BIOSEAL WALL FRAMES OR OTHER FIXTURES AS REQUIRED IN PRODUCT SPECIFICATIONS.
   - O) PROVIDE INSTALLATION AND REMOVAL OF INFECTION CONTROL RISK ASSESSMENT BARRIER AND DUST CONTROL MATERIALS/EQUIPMENT.
   - P) AS APPLICABLE, OBTAIN NECESSARY LICENSES OR PERMITS, OR FOLLOW OTHER REQUIREMENTS, TO PERMIT INSTALLATION.
   - Q) AS APPLICABLE, IDENTIFY STATE OR LOCAL BUILDING CODE REQUIREMENTS TO PERMIT INSTALLATION.
   - R) IF A NETWORK CONNECTION IS REQUIRED, CUSTOMER MUST PROVIDE THE FOLLOWING:
     - 1.1. WRITTEN CONFIRMATION OF A FUNCTIONAL IP ADDRESS IN ACCORDANCE WITH THE PROJECT PLAN (LIFE SCIENCES) OR 30 DAYS PRIOR TO INSTALLATION (HEALTHCARE).
     - 1.2. A NETWORK CONNECTION POINT WITHIN 5 LINEAR FEET OF THE EQUIPMENT. THE CUSTOMER CONNECTION POINT MUST BE LABELED.
   - S) IF THE FACILITY IS NOT READY FOR FULL INSTALLATION, INCLUDING RUNNING FUNCTIONAL CYCLES AND CONNECTING OF DATA CABLES, ADDITIONAL CHARGES WILL APPLY PRIOR TO GETINGE'S RETURN FOR INSTALLATION COMPLETION.

3. IMPORTANT ITEMS ON NOTE:
   - A) MINIMUM OF THIRTY (30) WORKING DAYS NOTIFICATION WILL BE REQUIRED FOR SCHEDULING INSTALLATION. ADDITIONAL COSTS MAY BE BILLED IF LESS THAN 30 DAYS' NOTICE IS GIVEN.
   - B) STANDARD INSTALLATION WORK HOURS ARE 8:00 A.M. TO 5:00 P.M., EXCLUDING WEEKENDS AND FEDERAL HOLIDAYS. OVERTIME CHARGES MAY APPLY AFTER 5:00 P.M. AND DURING WEEKENDS/HOLIDAYS.
   - C) REMOVAL OF ASBESTOS OR EQUIPMENT SUBJECT TO DISPOSAL REGULATIONS OF FEDERAL, STATE OR LOCAL GOVERNMENTS IS NOT INCLUDED.
   - D) PRICING FOR HAZARDOUS WASTE REMOVAL MUST BE OBTAINED THROUGH LOCAL HAZARDOUS WASTE CONTRACTORS.
   - E) PRICING DOES NOT PROVIDE FOR UNION LABOR, CERTIFIED PAYROLL, PARTICIPATION IN OCIP, CALIFORNIA STATE LABOR CODE COMPLIANCE.
   - F) INSTALLATION SERVICES REQUIRE UNINTERRUPTED ACCESS, SITE CONDITIONS AND UTILITY AVAILABILITY. ADDITIONAL VISITS THAT MAY OCCUR DUE TO WORK STOPPAGE OR OTHER EVENTS THAT ARE BEYOND THE CONTROL OF GETINGE WILL BE BILLED DIRECTLY TO THE BUYER AT PREVAILING RATES.
   - G) IF REMOVAL OF EQUIPMENT IS PURCHASED, IT IS TO BE ON SAME MOBILIZATION AS INSTALLATION UNLESS SEPARATE MOBILIZATION IS PURCHASED.
   - H) FOR THE PURPOSES OF THIS INSTALLATION AND PROJECT RESPONSIBILITIES DOCUMENT, "LIFE SCIENCE EQUIPMENT" INCLUDES THE FOLLOWING PRODUCTS:
     - 1.a. COMP WASHERS
     - 1.b. AGE AND BOTTLE WASHERS
     - 1.c. CAGE AND RACK WASHERS
     - 1.d. TUNNEL WASHERS
     - 1.e. GEV, GEC, GEB SERIES STERILIZERS
     - 1.f. GSSL, GSSP, GSSR MODEL STERILIZERS
     - 1.g. BEDDING DISPENSERS (OR TBJ EQUIVALENT)
     - 1.h. BOTTLE FILLERS (OR TBJ EQUIVALENT)
     - 1.i. BEDDING DUMP STATION
     - 1.j. CPS (CLOSURE PROCESSING SYSTEM)
     - 1.k. LANCER BRANDED EQUIPMENT
     - 1.l. BRANDED EQUIPMENT
     - 1.m. ISOLATION AND CONTAINMENT EQUIPMENT INCLUDING ISOLATORS, DPTES AND ACCESSORIES.
     - 1.n. EQUIPMENT LABELED WITH AN "LS" OR "CMP" DESIGNATION IN THE MODEL NUMBER.
     - 1.o. BIOPROCESSING, SIP, SUP AND FUP.

CATH LAB NOTES

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

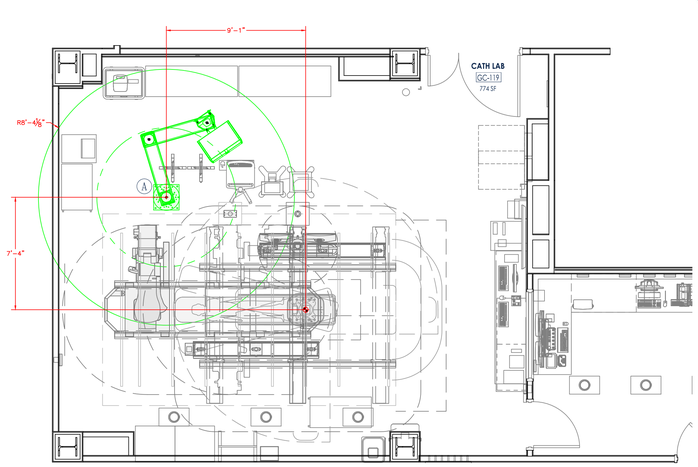
SCALE: NTS

DRAWING NUMBER: M1798-006

REVISION LEVEL: A

PAGE #: N1.1

MOUNT	QTY:	DESCRIPTION
A	1	H12-12 ANESTHESIA BOOM



ROOM PLAN LAYOUT (1)
SCALE: 1/4"=1'-0"

CATH LAB ARCHITECTURAL PLAN LAYOUT

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

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

DRAWING NUMBER: M1798-006

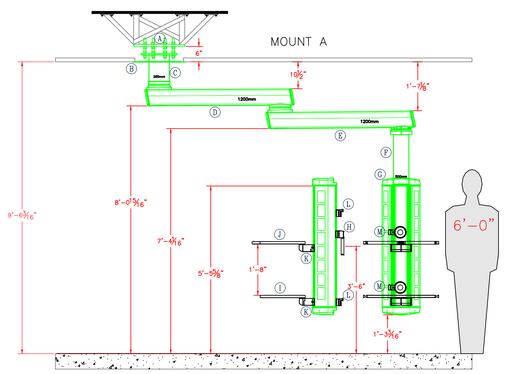
REVISION LEVEL: A

PAGE #: A1.1

MOUNT	QTY:	DESCRIPTION
A	1	H12-12 ANESTHESIA BOOM

ITEM CRITERIA	
ITEM:	DESCRIPTION
A	ANCHOR PLATE
B	CEILING COVER
C	265mm FLANGE BEARING
D	1200mm HEAVY EXTENSION ARM
E	1200mm HEAVY EXTENSION ARM
F	500mm SUSPENSION TUBE
G	1200mm MEZZO DISTRIBUTOR
H	VERTICAL HANDLE w/ BRAKES CTRL
I	SHELF w/ RAILS
J	SHELF w/ HANDLE w/ BRAKES CTRL
K	SHELF SPACER
L	400mm RAIL
M	CABLE WINDING
N	
O	
P	
Q	
R	
S	
T	
U	
V	
W	
X	
Y	
Z	

SPECIAL CONSIDERATIONS



ANESTHESIA ELEVATION – MOUNT A (1)
SCALE: 1/2"=1'-0"

CATH LAB ARCHITECTURAL ELEVATION LAYOUT

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

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

DRAWING NUMBER: M1798-006

REVISION LEVEL: A

PAGE #: A2.1

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3600 South Boulevard Station 4, Suite 500
Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued
11/14/2025

Scale

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By: CPL
Checked By: CPL

Drawing Title
GETINGE (FOR REFERENCE ONLY)

Drawing Number
-

GETINGE-1

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MODUEVO TABLE OF MODELS AND LOADS

MOUNT	QTY:	DESCRIPTION
A	1	H12-12 ANESTHESIA BOOM

CEILING PENDENT SYSTEMS

MODEL	LOADED WEIGHT (LBS)	LOADED MOMENT (FT-LBS)	MODEL	LOADED WEIGHT (LBS)	LOADED MOMENT (FT-LBS)
☐ FIX/ROT COLUMN	532	568	☐ ENERGY L6-10	855	2745
☐ PLGII SKY 14-0	218	265	☐ ENERGY L9-10	648	3226
☐ PLGII SKY L6-14	256	603	☐ ENERGY L12-10	587	3438
☐ PLGII SKY L9-14	265	790	☐ ENERGY M0-10	693	2377
☐ PLGII SKY L12-14	273	991	☐ ENERGY M6-10	760	3779
☐ PLGII SKY L15-14	304	1110	☐ ENERGY M9-10	775	4500
☐ L 6-0	855	2350	☐ ENERGY M12-10	789	5236
☐ L 9-0	867	3165	☐ ENERGY M15-10	737	5344
☐ L 12-0	771	3431	☐ CARGO L6-0	855	2745
☐ L 15-0	652	3360	☐ CARGO L9-0	868	3560
☐ L 6-6	801	3464	☐ CARGO L12-0	722	3464
☐ L 9-6	688	3462	☐ CARGO L6-6	744	3139
☐ L 9-9	616	3467	☐ CARGO H9-0	871	3565
☐ L 12-6	609	3460	☐ CARGO H12-0	885	4396
☐ L 12-9	556	3462	☐ CARGO H15-0	885	5206
☐ L 12-12	516	3466	☐ CARGO H6-6	825	4474
☐ L 15-12	481	3462	☐ CARGO H9-6	940	5330
☐ L 15-15	456	3460	☐ CARGO H9-9	865	5531
☐ H 12-0	885	4001	☐ CARGO H12-9	802	5652
☐ H 15-0	899	4846	☐ CARGO H12-12	751	5764
☐ H 6-6	925	4080			
☐ H 9-6	939	4963			
☐ H 9-9	953	5822			
☐ H 12-9	853	5812			
☒ H 12-12	781	5809			
☐ H 15-12	720	5800			
☐ H 15-15	676	5813			

MONITOR BOOMS ONLY

☐ SPRING 6-10	479	2969	☐ ENERGY M6-10	589	2671
☐ SPRING 9-10	492	3000	☐ ENERGY M9-10	602	3295
☐ SPRING 12-10	518	4319	☐ ENERGY M12-10	618	3933
☐ SPRING 15-10	532	5015	☐ ENERGY M15-10	632	4550

LIGHT ARM SYSTEMS

MODEL	LOADED WEIGHT (LBS)	LOADED MOMENT (FT-LBS)
☐ SINGLE ARM (SINGLE ARM PWDII OR VST SURGICAL LIGHT SYSTEM)	165	1065
☐ DUAL ARM (DUAL ARM PWDII OR VST SURGICAL LIGHT SYSTEM)	249	1487
☐ TRIPLE ARM (TRIPLE ARM PWDII OR VST SURGICAL LIGHT SYSTEM)	337	1555
☐ SATELITE (SATELITE THREE AXIS ARM SYSTEM)	563	3218
☐ LCA40 (LUCEA 40 MINOR LIGHT SYSTEM)	22	55
☐ LCA 50/100 (PROCEDURE LIGHT SYSTEM)	31	102
☐ EZEA 30/33 (PROCEDURE LIGHT SYSTEM)	64	219

STRUCTURE TYPE	EQUIPMENT	LOAD TABLE	LOAD TABLE
SINGLE	A	H12-12	

1. USE HEAVIEST UNITS AND MAX TORQUES ON THE TABLE FOR DESIGNING THE STRUCTURE IF THE MODELS ARE UNKNOWN AT THE TIME OF DESIGN
2. WHEN PLACING MULTIPLE PIECES OF EQUIPMENT ON A TANDEM MOUNT, ADD WEIGHTS AND MOMENTS FOR EACH PIECE FROM ABOVE FOR STRUCTURE DESIGN

CATH LAB LOAD TABLE

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

SCALE: NTS

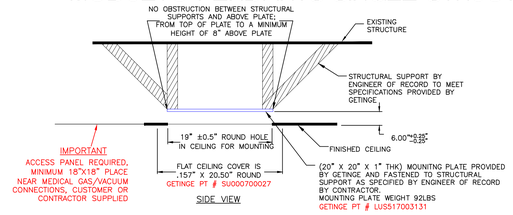
DRAWING NUMBER: M1798-006

REVISION LEVEL: A

PAGE #: S1.1

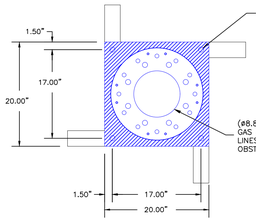
MODUEVO PENDANTS SINGLE STRUCTURAL

MOUNT	QTY:	DESCRIPTION
A	1	H12-12 ANESTHESIA BOOM

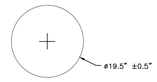


IMPORTANT
ACCESS PANEL REQUIRED, MINIMUM 18"X18" PLACE NEAR MEDICAL GAS/VACUUM CONNECTIONS, CUSTOMER OR CONTRACTOR SUPPLIED

SIDE VIEW



VIEW FROM BELOW PLATE



FINISHED HOLE SIZE

NOTES:
1. THE DESIGN, FABRICATION, AND INSTALLATION OF THE SUPPORT STRUCTURE IS THE RESPONSIBILITY OF THE CUSTOMER'S ENGINEER OF RECORD AND CONTRACTOR. GETINGE MOUNTING PLATE TO BE FASTENED TO STRUCTURAL SUPPORT AS SPECIFIED BY ENGINEER OF RECORDS BY CONTRACTOR
2. THE STRUCTURAL SUPPORT MUST BE INSTALLED TO BE WITHIN .119"/FT (1CM/M) OF LEVEL, AND DESIGNED SO THAT UNDER THE MOST ECCENTRIC GRAVITY LOAD, IT IS NOT MORE THAN .125 DEGREES OFF OF LEVEL. NON-SEISMIC STRUCTURES SHOULD BE DESIGNED TO HOLD THE LOAD OF THE SELECTED MODEL AS SPECIFIED IN THE TABLE OF MODELS AND LOADS, PLUS ANY FACTOR OF SAFETY DESIGNATED BY LOCAL CODES OR THE DISCRETION OF THE ENGINEER OF RECORD. CONSULT GETINGE SUPPLIED SEISMIC DRAWINGS FOR SEISMIC APPLICATIONS.
3. DIMENSIONS SHOWN IN ( ) ARE FOR REFERENCE ONLY AND REFLECT MEASUREMENTS OF GETINGE SUPPLIED PART.
4. FIRE SPRINKLER HEADS SHOULD NOT EXTEND MORE THAN 1.25" BELOW THE FINISHED CEILING, OR SHOULD BE MOVED OUTSIDE THE TURNING RADIUS OF THE SPECIFIED ARM SYSTEM.

CATH LAB STRUCTURAL DETAIL

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

SCALE: NTS

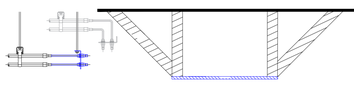
DRAWING NUMBER: M1798-006

REVISION LEVEL: A

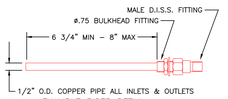
PAGE #: S2.1

MODUEVO PENDANT PLUMBING

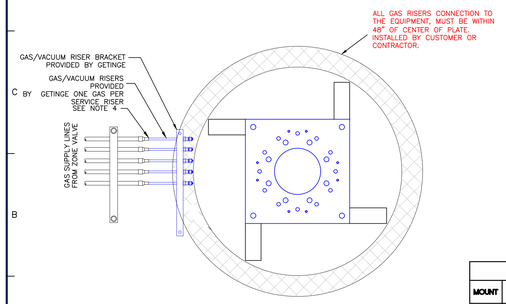
MOUNT	QTY:	DESCRIPTION
A	1	H12-12 ANESTHESIA BOOM

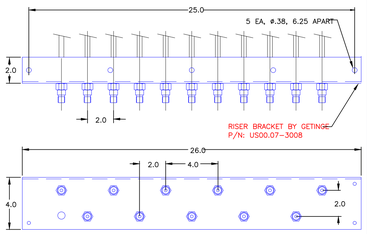


IMPORTANT
ACCESS PANEL MINIMUM 18" X 18" PLACE NEAR MEDICAL GAS/VACUUM CONNECTIONS



EXAMPLE RISER DETAIL





NOTES:
1. CUSTOMER'S DESIGN ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN, INCLUDING CODE COMPLIANCE, OF ALL FACILITY SERVICES UP TO GETINGE SUPPLIED EQUIPMENT.
2. OUTLETS INCLUDE: ALL POSITIVE GASES.
3. INLETS INCLUDE: VACUUM AND WAGD.
4. GAS RISERS (ONE PER SERVICE) AND RISER BRACKET SUPPLIED BY GETINGE.

PLUMBING SERVICES

MOUNT	DESCRIPTION	OXYGEN	MEDICAL AIR	VACUUM	CARBON DIOXIDE	NITROGEN	NITROUS OXIDE	WAGD	N2 PANEL
A	ANESTHESIA BOOM	2	1	3	----	----	1	1	----

CATH LAB PLUMBING DETAIL

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

SCALE: NTS

DRAWING NUMBER: M1798-006

REVISION LEVEL: A

PAGE #: P1.1

ELECTRICAL SCHEDULE

MOUNT	QTY:	DESCRIPTION
A	1	H12-12 ANESTHESIA BOOM

LOCATION	PURPOSE	CIRCUIT TYPE	QTY/ MT	JUNCTION BOX	TYPE
MOUNT A	PENDANT OUTLETS	EMERGENCY 20A	4	GETINGE	PER NEC
MOUNT A	ELECTRO-MAGNETIC BRAKES / AMBIENT LIGHT	NORMAL 20A	1	GETINGE	PER NEC

CATH LAB ELECTRICAL SCHEDULE

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

SCALE: NTS

DRAWING NUMBER: M1798-006

REVISION LEVEL: A

PAGE #: E1.1

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Charlotte, NC 28209
CPLteam.com
NC ENGINEERING FIRM LICENSE NO. C-2194

UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

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11/14/2025

Scale

Project Status
FINAL CONSTRUCTION DRAWINGS

Drawn By
CPL

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CPL

Drawing Title
GETINGE (FOR REFERENCE ONLY)

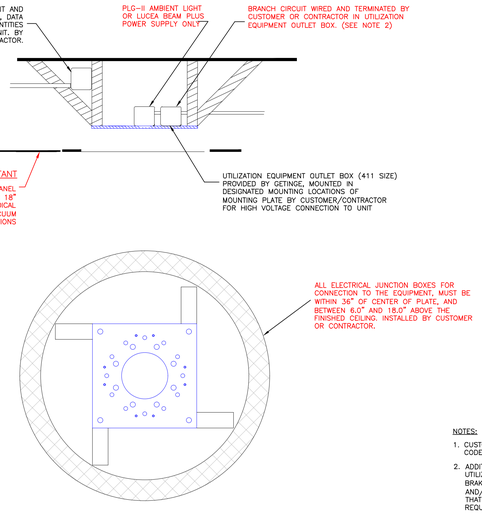
Drawing Number
-

GETINGE-2

11/12/2025 11:28:15 AM PROJECT FILES ON ACC

MODUEVO PENDANT ELECTRICAL

MOUNT	QTY:	DESCRIPTION
A	1	H12-12 ANESTHESIA BOOM



NOTES:

1. CUSTOMER'S DESIGN ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN, INCLUDING CODE COMPLIANCE, OF ALL FACILITY SERVICES UP TO GETINGE SUPPLIED EQUIPMENT.
2. ADDITIONAL 120VAC/20AMP CIRCUIT FOR EACH CEILING SERVICE UNIT REQUIRED TO UTILIZATION EQUIPMENT OUTLET BOX, SUPPLIED BY GETINGE, FOR ELECTRO-MAGNETIC BRAKES (CONTROL PSU), AMBIENT LIGHT (CONTROL PSU), MOTOR UNITS (ENERGY LINE), AND/OR ACCESSORIES (CONTROL PSU). RECOMMEND THIS BE TAPPED OFF OF A CIRCUIT THAT IS NOT PART OF THE EMERGENCY SYSTEM. CONSULT LOCAL CODES FOR REQUIREMENT TO CONNECT TO A DEDICATED CIRCUIT.
   ENERGY LINE = 800VA (6.66 AMPS)
   CONTROL PSU = 182VA (1.51AMPS)

CATH LAB ELECTRICAL DETAIL

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

SCALE: NTS

DRAWING NUMBER: M1798-006

REVISION LEVEL: A

PAGE #: E2.1

ELECTRO-MAGNETIC BRAKES
- [x] AXIS 1 – CEILING
- [x] AXIS 2

AMBIENT LIGHTING
- [x] YES **SWITCH LOCATION REQUIRED**
- [ ] NO

MOTORIZED
- [ ] YES **LOCATION OF EMERGENCY STOP REQUIRED**
- [x] NO

SHELVING

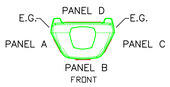
NUMBER OF SHELVES PER UNIT 2

QTY	
	SHELF 485mm (19" X 17.7")
2	SHELF 685mm (27" X 17.7")
	SHELF 885mm (34.9" X 17.7")

CIRCUIT IDENTIFICATION

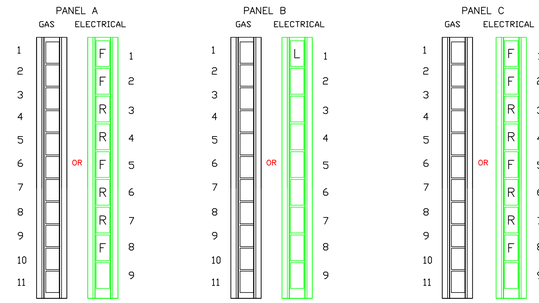
CIRCUIT 1 = A3, A4
CIRCUIT 2 = A6, A7
CIRCUIT 3 = C3, C4
CIRCUIT 4 = C6, C7
CIRCUIT 5 =
CIRCUIT 6 =

SPECIAL
- [ ] ENGRAVED OUTLET COVERS, SPECIFICATIONS PROVIDED TO GETINGE BY THE CUSTOMER



NOTE: 14 GAS/ELECTRIC LINES MAX PER UNIT

11 GAS OUTLETS PER PANEL MAX
9 ELECTRIC OUTLETS PER PANEL MAX



DESIGN NOTES:

HIGH VOLTAGE CIRCUITS DELIVERED IN 9/16" CONDUIT WITH BACK BOXES
2 CIRCUITS MAX PER CONDUIT

MOTORIZED UNITS MUST HAVE EMERGENCY STOP, UNIT REQUIRES TWO VERTICAL ELECTRICAL OUTLETS

VERTICAL NITROGEN REGULATOR REQUIRES THREE GAS OUTLET LOCATIONS

DATA CONDUIT DELIVERED IS 9/16"

MIXING GAS AND ELECTRICAL RULES; MUST USE OUTLET QUANTITIES OF AN ELECTRICAL PANEL.
GAS OUTLETS MUST LOCATED ABOVE ELECTRICAL AND DATA OUTLETS.

ANESTHESIA CONFIGURATION – MOUNT A (1)

SCALE: NTS

MOUNT	QTY:	DESCRIPTION
A	1	H12-12 ANESTHESIA BOOM

LEGEND

ID	QTY:	DESCRIPTION
O	2	OXYGEN
A	1	MEDICAL AIR
V	3	VACUUM
C		CARBON DIOXIDE
N		NITROGEN
NO	1	NITROUS OXIDE
E	1	WAGD
NP		NITROGEN PANEL
F	8	DATA – FACE PLATE ONLY
D		DATA – CONDUIT/PULL STRING
R	8	RED DUPLEX
W		WHITE DUPLEX
L	1	LED AMBIENT SWITCH
M		MOTOR CONTROL
NC		NURSE CALL

GAS OUTLET TYPE
- [x] D.I.S.S.
- [ ] CHEMETRON COMPATIBLE
- [ ] OHMEDA/MEDAES/HILL-ROM
- [ ] PURITAN BENNETT
- [ ] OTHER _____

NOTE: BEACON MANUFACTURED OUTLETS UNLESS OTHERWISE SPECIFIED.

WIRE TYPE

4 NO. OF CIRCUITS PER UNIT
- [ ] STANDARD/EMERGENCY POWER BLACK, WHITE, GREEN WIRE
- [x] ISOLATED POWER ORANGE, BROWN, GREEN WIRE
- [ ] TAMPER RESISTANT DUPLEXES

RECEPTACLE ORIENTATION

CATH LAB CONFIGURATION DETAILS

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

SCALE: NTS

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REVISION LEVEL: A

PAGE #: C1.1

ELECTRO-MAGNETIC BRAKES
- [x] AXIS 1 – CEILING
- [x] AXIS 2

AMBIENT LIGHTING
- [x] YES **SWITCH LOCATION REQUIRED**
- [ ] NO

MOTORIZED
- [ ] YES **LOCATION OF EMERGENCY STOP REQUIRED**
- [x] NO

SHELVING

NUMBER OF SHELVES PER UNIT 2

QTY	
	SHELF 485mm (19" X 17.7")
2	SHELF 685mm (27" X 17.7")
	SHELF 885mm (34.9" X 17.7")

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CIRCUIT 1 = A3, A4
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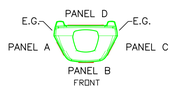
CIRCUIT 5 =
CIRCUIT 6 =

SPECIAL
- [ ] ENGRAVED OUTLET COVERS, SPECIFICATIONS PROVIDED TO GETINGE BY THE CUSTOMER



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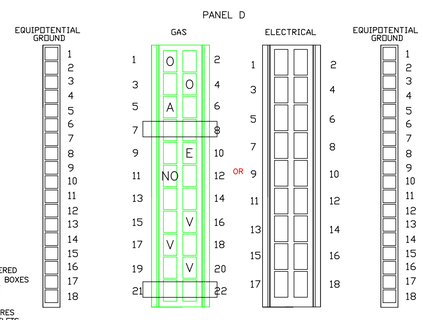
11 GAS OUTLETS PER PANEL MAX
9 ELECTRIC OUTLETS PER PANEL MAX



DESIGN NOTES:

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VERTICAL NITROGEN REGULATOR REQUIRES THREE GAS OUTLET LOCATIONS

DATA CONDUIT DELIVERED IS 9/16"

MIXING GAS AND ELECTRICAL RULES; MUST USE OUTLET QUANTITIES OF AN ELECTRICAL PANEL.
GAS OUTLETS MUST LOCATED ABOVE ELECTRICAL AND DATA OUTLETS.

ANESTHESIA CONFIGURATION – MOUNT A (1)

SCALE: NTS

MOUNT	QTY:	DESCRIPTION
A	1	H12-12 ANESTHESIA BOOM

LEGEND

ID	QTY:	DESCRIPTION
O	2	OXYGEN
A	1	MEDICAL AIR
V	3	VACUUM
C		CARBON DIOXIDE
N		NITROGEN
NO	1	NITROUS OXIDE
E	1	WAGD
NP		NITROGEN PANEL
F	8	DATA – FACE PLATE ONLY
D		DATA – CONDUIT/PULL STRING
R	8	RED DUPLEX
W		WHITE DUPLEX
L	1	LED AMBIENT SWITCH
M		MOTOR CONTROL
NC		NURSE CALL

GAS OUTLET TYPE
- [x] D.I.S.S.
- [ ] CHEMETRON COMPATIBLE
- [ ] OHMEDA/MEDAES/HILL-ROM
- [ ] PURITAN BENNETT
- [ ] OTHER _____

NOTE: BEACON MANUFACTURED OUTLETS UNLESS OTHERWISE SPECIFIED.

WIRE TYPE

4 NO. OF CIRCUITS PER UNIT
- [ ] STANDARD/EMERGENCY POWER BLACK, WHITE, GREEN WIRE
- [x] ISOLATED POWER ORANGE, BROWN, GREEN WIRE
- [ ] TAMPER RESISTANT DUPLEXES

RECEPTACLE ORIENTATION

CATH LAB CONFIGURATION DETAILS

PROJECT: WAYNE COUNTY MEMORIAL HOSPITAL GOLDSBORO, NJ

GETINGE

SCALE: NTS

DRAWING NUMBER: M1798-006

REVISION LEVEL: A

PAGE #: C1.2

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UNC HEALTH Wayne

PROJECT INFORMATION

Project Number
R25.18089.00

Client Name
UNC HEALTH WAYNE

Project Name
CATH LAB RENOVATION

Project Address
2700 WAYNE MEMORIAL DRIVE
GOLDSBORO, NC 27533

CON Number
P-12569-24

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued: 11/14/2025
Scale:
Project Status: FINAL CONSTRUCTION DRAWINGS
Drawn By: CPL
Checked By: CPL
Drawing Title: GETINGE (FOR REFERENCE ONLY)
Drawing Number: -

GETINGE-3

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