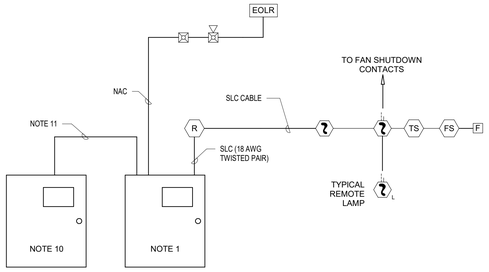
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE
ORIGINAL PLOT SIZE



NOTES:

1. NEW FIRE ALARM NAC PANEL.
2. FIRE ALARM RELAY PROGRAMMED FOR STROBE OPERATION.
3. FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 72.
4. ACTUATION OF ANY SYSTEM INITIATING DEVICE SHALL ACTIVATE INDICATING DEVICES, IN ZONE OF ALARM.
5. VERIFY COMPONENT TYPES AND QUANTITIES WITH PLAN DRAWINGS.
6. ALL FIRE ALARM WIRING TO BE INSTALLED IN RED RACEWAYS.
7. PROVIDE ALL REQUIRED POWER SUPPLIES, BOOSTER PANELS, MODULES, ETC. FOR A COMPLETE SYSTEM.
8. FIRE ALARM CONTRACTOR TO COORDINATE SPECIFIC WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
9. FIRE ALARM CONTRACTOR TO PROVIDE ADJUSTABLE LED STROBES AND TO SET THE CANDELAS AS REQUIRED PER NFPA 72
10. EXISTING BUILDING FIRE ALARM CONTROL PANEL
11. CONNECT TO EXISTING BUILDINGS FIRE ALARM CONTROL PANEL

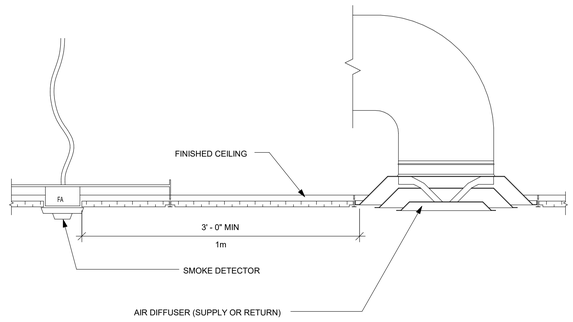
DEVICES SHOWN ON THE RISER DIAGRAM ARE TYPICAL. REFER TO THE FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATIONS.

3 FIRE ALARM SYSTEM RISER DIAGRAM

NO SCALE

FIRE ALARM SYMBOL LEGEND

F	FIRE ALARM SYSTEM MANUAL PULL STATION
	WALL MOUNTED FIRE ALARM SYSTEM STROBE DEVICE
FS	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM WATER FLOW SWITCH
TS	FIRE ALARM CONNECTION TO SPRINKLER SYSTEM VALVE TAMPER SWITCH
R	ADDRESSABLE FIRE ALARM SYSTEM RELAY/ CONTROL MODULE.
	FIRE ALARM SMOKE DETECTOR
L	FIRE ALARM SYSTEM DUCT DETECTOR REMOTE ALARM LAMP WITH KEY TEST SWITCH
	FIRE ALARM SYSTEM DUCT DETECTOR WITH SAMPLING TUBES AND AUXILIARY SHUTDOWN RELAY
EOLR	END OF LINE POWER SUPERVISORY RESISTOR
NAC	FIRE ALARM NAC PANEL
FAA	FIRE ALARM ANNUCIATOR PANEL
SLC	SIGNAL LINE CIRCUIT
NAC	NOTIFICATION APPLIANCE CIRCUIT
	FIRE SMOKE DAMPER



4 SMOKE DETECTOR/AIR DIFFUSER MINIMUM DISTANCE DETAIL

NO SCALE

	INPUT DEVICES / OUTPUTS	1 DUCT SMOKE DETECTOR	2 AREA SMOKE DETECTOR	3 NOT USED	4 MANUAL PULL STATION	5 NOT USED	6 SPRINKLER WATERFLOW / SWITCH	7 WATER CONTROL VALVE TAMPER	8 NOT USED	9 FIRE ALARM PANEL AC POWER FAILURE	10 FIRE ALARM PANEL LOW-BATTERY	11 OPEN CIRCUIT CONDITION	12 GROUND FAULT CONDITION	13 NAC SHORT-CIRCUIT	
A	PROVIDE NOTIFICATION IN ZONE OF ALARM	●	●		●		●								A
B	NOTIFY FIRE DEPARTMENT		●		●		●								B
C	INITIATE SUPERVISORY SIGNAL TO A 24-HOUR MANNED POINT FOR IMMEDIATE RESPONSE	●						●							C
D	PROVIDE NOTIFICATION IN OTHER ZONES FOR EMERGENCY RESPONSE		●		●		●								D
E	SHUT DOWN AIR HANDLER SERVED BY THE DETECTOR	●	●		●		●								E
F	NOT USED														F
G	NOT USED														G
H	ACTIVATE COMMON TROUBLE SIGNAL AND AUDIBLE ALARM AT PANEL									●	●	●	●	●	H
I	INITIATE TROUBLE SIGNAL TO A 24-HOUR MANNED STATION FOR IMMEDIATE RESPONSE									●	●	●	●	●	I
		1	2	3	4	5	6	7	8	9	10	11	12	13	

2 FIRE ALARM INPUT/OUTPUT MATRIX

NO SCALE

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CMC Socastee FSED
6016 HIGHWAY 707
MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00 **HDG PROJECT NUMBER:** 24019

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 22886
7/16/2025
DONALD A JONES

SOUTH CAROLINA QUALITY CONSULTING ENGINEERS, LLC No. 4298 CERTIFICATE OF AUTHORIZATION

ORIG SUBMISSION: 07.03.2025
CURRENT:

SHEET TITLE AND NUMBER:

FA0.01

GENERAL NOTES AND SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" SHEETS ORIGINAL PLOT SIZE

FIRE ALARM NOTES

A. FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH NFPA 72.

B. ACTUATION OF ANY SYSTEM INITIATING DEVICE SHALL ACTIVATE ALL INDICATING DEVICES, UNLESS NOTED OTHERWISE.

C. VERIFY COMPONENT TYPES AND QUANTITIES WITH PLAN DRAWINGS.

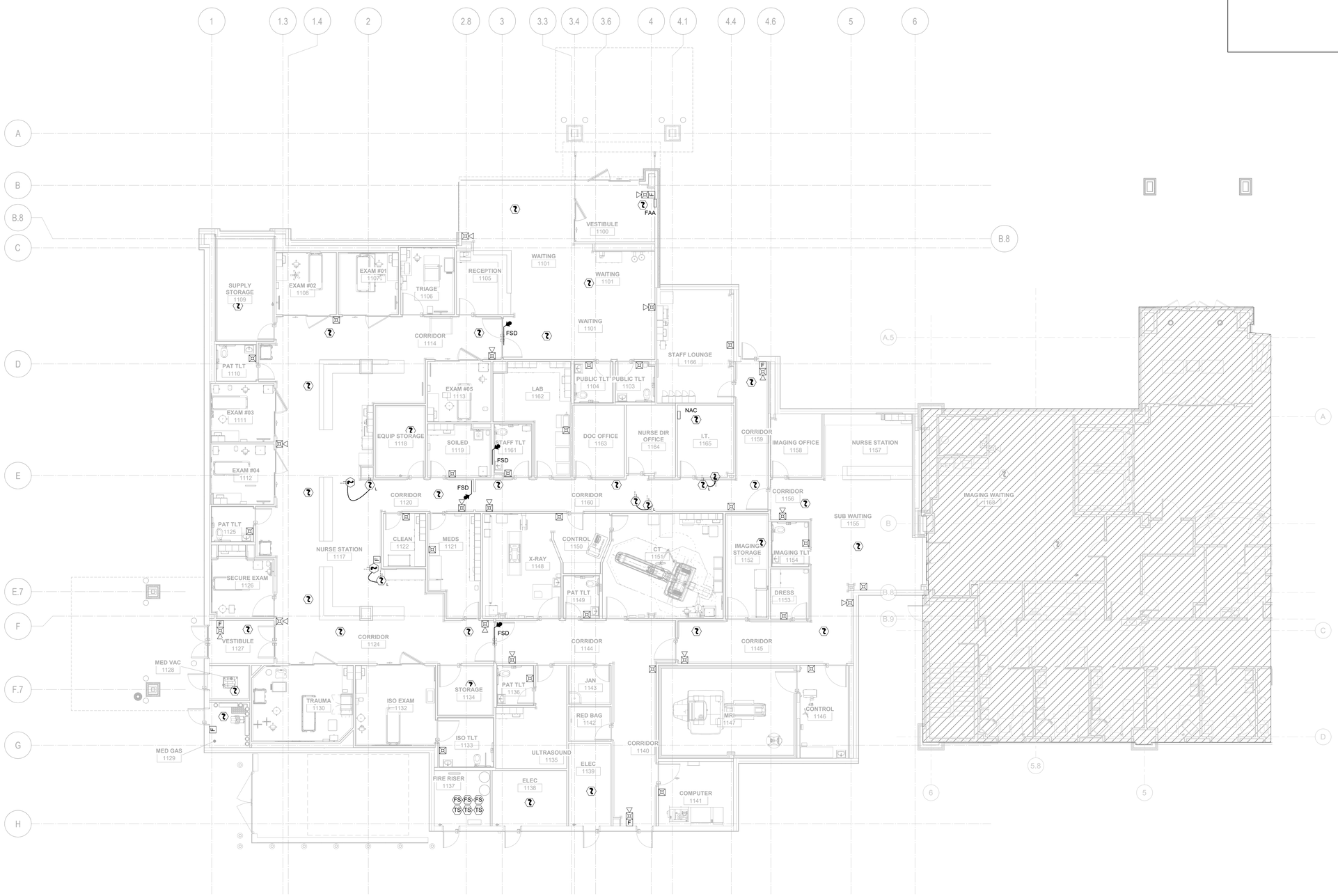
D. ALL FIRE ALARM WIRING TO BE INSTALLED IN RACEWAYS.

E. PROVIDE ALL REQUIRED POWER SUPPLIES, BOOSTER PANELS, MODULES, ETC. FOR A COMPLETE SYSTEM.

F. FIRE PROTECTION CONTRACTOR TO COORDINATE SPECIFIC WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.

G. REFER TO THE SPECIFICATIONS FOR MOUNTING HEIGHTS FOR INITIATING DEVICES AND NOTIFICATION APPLIANCES.

H. REVIEW THE CONSTRUCTION DOCUMENTS OF ALL TRADES FOR PHASING REQUIREMENTS.



1 **FIRST FLOOR PLAN - FIRE ALARM**
1/8" = 1'-0"

0 4' 8' 16'

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FIRST FLOOR PLAN - FIRE ALARM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" X 42" ORIGINAL PLOT SIZE

FIRE PROTECTION ZONE SCHEDULE

ITEMS	DESCRIPTION / LOCATION	APPROXIMATE AREA SERVED (SQ.FT.)	SERVED BY ZONE CONTROL ASSEMBLY
1	FREE STANDING EMERGENCY CARE AREA - INSTITUTIONAL OCCUPANCY	9,500	ZONE 1
2	IMAGING AREA - BUSINESS OCCUPANCY	2,500	ZONE 2
3	CANOPY - DRY TYPE SYSTEM	625	ZONE 3

NOTES:

SPRINKLER NOTE

SPRINKLER PLANS AS SHOWN ARE FOR BIDDING PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS TO OBTAIN A CURRENT WATER FLOW TEST AND PROVIDE HYDRAULIC CALCULATIONS FOR SYSTEM PIPE SIZING IN ACCORDANCE WITH NFPA 13 2019. THE SPRINKLER CONTRACTOR IS TO SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATION, PIPING LAYOUT AND SIZING. SHOP DRAWINGS AND CALCULATIONS SHALL BE SEALED AND SIGNED BY A NICET LEVEL IV DESIGNER OR A PROFESSIONAL ENGINEER.

FLOW TEST DATA

LOCATION - CONWAY MEDICAL CENTER HWY 707
TEST PERFORMED BY...GRAND STRAND WATER AND SEWER AUTHORITY
STATIC PRESSURE.....68 PSI
DYNAMIC PRESSURE.....56 PSI
FLOW .....1250 GPM
DATE.....3/25/2025

SPRINKLER SYSTEMS HAZARD CLASSIFICATIONS

DENOTES AREA BEING PROTECTED BY AUTOMATIC WET SPRINKLERS.
OCCUPANCY CLASSIFICATION.....LIGHT HAZARD
DESIGN DENSITY.....0.10 GPM/S.F.
REMOTE HYDRAULIC AREA.....1,500 S.F.
MAXIMUM SPRINKLER COVERAGE.....225 S.F.
OUTSIDE HOSE STREAM.....100 GPM
DURATION OF SUPPLY.....30 MINUTES

DENOTES AREA BEING PROTECTED BY AUTOMATIC WET SPRINKLERS.
OCCUPANCY CLASSIFICATION.....ORDINARY HAZARD, GROUP 1
DESIGN DENSITY.....0.15 GPM/S.F.
REMOTE HYDRAULIC AREA.....1,500 S.F.
MAXIMUM SPRINKLER COVERAGE.....130 S.F.
OUTSIDE HOSE STREAM.....250 GPM
DURATION OF SUPPLY.....60-90 MINUTES

DENOTES AREA BEING PROTECTED BY AUTOMATIC WET SPRINKLERS.
OCCUPANCY CLASSIFICATION.....ORDINARY HAZARD, GROUP 2
DESIGN DENSITY.....0.20 GPM/S.F.
REMOTE HYDRAULIC AREA.....1,500 S.F.
MAXIMUM SPRINKLER COVERAGE.....130 S.F.
OUTSIDE HOSE STREAM.....250 GPM
DURATION OF SUPPLY.....60-90 MINUTES

DENOTES AREA BEING PROTECTED BY AUTOMATIC DRY SPRINKLERS.
OCCUPANCY CLASSIFICATION.....LIGHT HAZARD
DESIGN DENSITY.....0.10 GPM/S.F.
REMOTE HYDRAULIC AREA.....1,500 S.F.
MAXIMUM SPRINKLER COVERAGE.....225 S.F.
OUTSIDE HOSE STREAM.....100 GPM
DURATION OF SUPPLY.....30 MINUTES

FIRE PROTECTION GENERAL NOTES

DESIGN CRITERIA:

REFER TO THE FOLLOWING PUBLICATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) FOR THE DESIGN OF THE FIRE PROTECTION SYSTEM ON THIS PROJECT:

1. NFPA 13, (2019) - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
2. NFPA 25, (2020) - STANDARD FOR THE TESTING, INSPECTION, AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS.

GENERAL NOTES:

A. DESIGN THE SPRINKLER SYSTEM THROUGHOUT PROPOSED SCOPE OF WORK IN ACCORDANCE WITH NFPA 13.

B. ALL PIPING, VALVE, SPRINKLER HEADS, HANGERS, ETC. SHALL BE UL LISTED AND FM APPROVED.

C. DESIGN SHALL BE PERFORMED BY NICET LEVEL IV DESIGNER OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA AND SHALL BE SIGNED AND SEALED AS APPLICABLE. PROVIDE FIRE PROTECTION SYSTEM DESIGN AND SHOP DRAWINGS, MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

D. HYDRAULICALLY CALCULATE THE SYSTEM SIZING IN ACCORDANCE WITH NFPA 13. CONDUCT A NEW FLOW TEST AT THE NEAREST FIRE HYDRANTS IN ACCORDANCE WITH NFPA 291 TO UTILIZE AS A BASIS FOR HYDRAULIC CALCULATIONS. SUBMIT TEST TO ARCHITECT IN WRITING.

E. DESIGN THE SYSTEM USING SPRINKLER HEADS THAT ARE FM APPROVED, QUICK RESPONSE TYPE. SEMI-RECESSED HEADS IN ALL AREAS, EXCEPT WHERE SPECIFICALLY PROHIBITED IN UNFINISHED AREAS WITHOUT CEILINGS. USE QUICK RESPONSE ROUGH BRASS UPRIGHT HEADS WITH FRANGIBLE GLASS ELEMENT. FLEXIBLE SPRINKLER HEADS ARE PROHIBITED.

F. ALL HEADS SHALL HAVE A K FACTOR OF 5.6 - 5.8. TEMPERATURE RATINGS OF ALL SPRINKLER HEADS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13.

G. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. AVOID PENETRATING ANY MAIN STRUCTURAL BEAM.

H. HYDRAULIC CALCULATIONS SHALL TAKE INTO ACCOUNT ALL FITTINGS, OFFSETS, HARDWARE, DEVICES, CHARACTERISTICS AND TRIM DETERMINED NECESSARY FOR A COMPLETE SPRINKLER INSTALLATION.

I. CENTER SPRINKLER HEADS IN CEILING TILES IN AREAS WITH LAY-IN TILES AND VISUALLY ALIGN IN AREAS WITH HARD CEILINGS.

J. ELEVATIONS OF SPRINKLER PIPING AND HEADS MUST BE DETERMINED BY PROPOSED CEILING HEIGHTS. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.

K. PROVIDE SEISMIC BRACING FOR ALL PIPING IN ACCORDANCE WITH NFPA 13. PROVIDE SHOP DRAWINGS OF ALL SEISMIC CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA.

L. SPRINKLER HEADS AND ASSOCIATED BRANCH PIPING SHALL BE LOCATED AND SUPPORTED IN ACCORDANCE WITH NFPA 13.

M. TEST SPRINKLER SYSTEM, CONTROLS, PIPING, AND MONITORING IN ACCORDANCE WITH NFPA 25.

N. CAGES SHALL BE ADDED TO THE IT ROOMS WITH HIGHER TEMPERATURE HEADS.

O. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND COMPLETED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE BEST METHODS AND PRACTICES, ANY MATERIAL WHICH DOES NOT PRESENT AN ORDERLY AND REASONABLY NEAT AND WORKMANLIKE APPEARANCE, SHALL BE REMOVED AND REPLACED WHEN SO DIRECTED BY THE OWNER. THE REMOVAL AND REPLACEMENT OF THIS WORK SHALL BE DONE WHEN DIRECTED IN WRITING BY THE OWNER AT THE CONTRACTOR'S EXPENSE.

P. INCLUDE TEMPORARY COVERAGE AND SUPPLIES AS REQUIRED SO THAT NO AREA IS LEFT IMPAIRED DURING PERIODS WHERE NO SPRINKLER WORK IS BEING PERFORMED AND ALL OCCUPIED AREAS HAVE SPRINKLER COVERAGE AT ALL TIMES EXCEPT AS ALLOWED BY THE OWNER. AT NO TIME MAY SPRINKLER SYSTEM AND FIRE ALARM SYSTEMS BE IMPAIRED AT THE SAME TIME. INVERT HEADS TO UPRIGHT HEADS DURING CONSTRUCTION WHERE CEILINGS ARE TEMPORARILY REMOVED.

Q. SEE CIVIL PLAN - C8.0, FOR FIRE SPRINKLER PIPING 5'-0" BEYOND BUILDING. DIVISION 21 SHALL BE RESPONSIBLE FOR PIPING WITHIN BUILDING AND ONLY UP TO 5'-0" BEYOND BUILDING ENVELOPE.

R. FLEXIBLE SPRINKLER PIPE IS NOT ALLOWED.

FIRE SPRINKLER AIR COMPRESSOR SCHEDULE

MARK	TYPE	CFM(@10 PSI)	CAPACITY (GAL. @ 18 PSI)	HP	AMP	VOLTAGE	PHASE	BASIS OF DESIGN	REMARKS
FSAC-1	AIR COMPRESSOR	3.03	695	1/3	4.3	120	1	GENERAL AIR PRODUCTS - MODEL SERIES OLRV	1 - 7

1. PUMP MOTOR TO HAVE INTEGRAL THERMAL OVERLOAD.
2. PROVIDE WITH HARD WIRED KIT.
3. DISCONNECT TO BE PROVIDED BY DIVISION 26.
4. PUMP SHALL BE POWERED FROM EMERGENCY POWER.
5. RISER MOUNTED AIR COMPRESSOR WITH RISER MOUNTED BRACKET, UNION AND 30" STAINLESS STEEL FLEX HOSE .
6. PROVIDE WITH VAPOR PHASE CORROSION INHIBITOR SYSTEM MODEL VPS-500A WITH WALL MOUNTING CLAMP.
7. PROVIDE WITH MOTOR LINE STARTER MODEL MG00A SHIPPED SEPERATELY FROM COMPRESSOR PROVIDED BY DIV. 21 AND INSTALLED BY DIV. 26.

CONTRACTOR COORDINATION

THE GENERAL CONTRACTOR SHALL TAKE THE LEAD IN PREPARING COORDINATION DRAWINGS. SUCH DRAWINGS SHALL BE ARRANGED AND DESIGNED THROUGH AND FROM COORDINATION WITH ALL OTHER MAJOR AND MINOR SUBCONTRACTORS. PROVIDE PLAN VIEWS, SECTIONS, AND ELEVATIONS AS REQUIRED TO FULLY COORDINATE ALL NEW WORK, DRAW TO SCALE (AT NOT LESS THAN 3/8"=1'0"). DRAWINGS SHALL SHOW, BUT NOT BE LIMITED TO: ALL WALL RATINGS, DUCTWORK, AIR DISTRIBUTION, MECHANICAL EQUIPMENT, MECHANICAL PIPING, FIRE PROTECTION PIPING, PLUMBING PIPING, CABLE TRAYS, LIGHTING FIXTURES, CEILING GRID, CEILING HEIGHT, MAJOR BEAMS AND JOISTS (WITH ELEVATIONS MARKED), FIRE, SAFETY, AND SECURITY ALARM DEVICES (WHERE CEILING MOUNTED), ELECTRICAL CONDUITS LARGER THAN 2 INCH DIAMETER, ELECTRICAL BUSWAY AND REQUIRED CLEARANCES, AND ANY EQUIPMENT PROVIDED BY OTHERS THAT PROTRUDE INTO THE CEILING CAVITIES OR IMPEDE THE LOCATION OR ACCESS TO ABOVE CEILING PIPING, DUCTWORK, OR OTHER EQUIPMENT. SECTIONS SHALL BE CUT THROUGH AREAS SHOWING MATERIALS AND SYSTEMS OF ALL CONTRACTS. IT IS IMPORTANT TO NOTE THAT FABRICATION CANNOT BEGIN UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED.

THE CONTRACTOR SHALL OBTAIN A COPY OF THE FINAL SITE LATEST VENDOR DRAWINGS PRIOR TO PROCURING OR INSTALLING ANY EQUIPMENT. ANY REWORK REQUIRED BY THE CONTRACTOR'S FAILURE TO OBTAIN THESE DRAWINGS SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL NOT RESULT IN ANY ADDITIONAL TIME TO THE PROJECT. THE CONTRACTOR SHALL MEET THE REPRESENTATIVE OF THE VENDOR PRIOR TO THE START OF WORK. ALL WORK SHALL COMPLY WITH ALL VENDOR REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN ON THESE DRAWINGS AND ALL WORK SHOWN ON THE VENDOR DRAWINGS. THE PHRASE "SUPPLIED BY CUSTOMER" (OR DERIVATIVES) MEANS "PROVIDED BY CONTRACTOR."

FIRE PROTECTION LEGEND

PIPING SYMBOLS

- F — FIRE PROTECTION SUPPLY PIPING
- FIRE PROTECTION DEMOLITION PIPING
- SIAMESE FIRE DEPARTMENT CONNECTION
- F.S. — WATERFLOW DETECTOR
- T.S. — OS&Y VALVE
- PLUG
- BACKFLOW PREVENTER
- Y-TYPE STRAINER
- Y-TYPE STRAINER WITH HOSE DRAIN VALVE
- D — FIRE PROTECTION DRAIN
- PRESSURE GAGE
- CAP
- ELBOW, 90°
- ELBOW, 90° TURNED UP
- ELBOW, 90° TURNED DOWN
- ELBOW, 45°
- TEE
- TEE, OUTLET TURNED UP
- TEE, OUTLET TURNED DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER (STRAIGHT INVERT)
- UNION
- FLEXIBLE PIPE CONNECTION
- ELECTRICALLY OPERATED VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- A — FIRE PROTECTION COMPRESSED AIR SUPPLY

MISC. SYMBOLS

- 0000 — ROOM NUMBER
- POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
- POINT BETWEEN EXISTING WORK TO REMAIN AND EXISTING WORK TO BE REMOVED
- HD — HEAT DETECTOR
- SD — SMOKE DETECTOR
- WET PIPE FIRE PROTECTION VALVE
- DRY PIPE FIRE PROTECTION VALVE
- PRE-ACTION FIRE PROTECTION VALVE
- FIRE DEPT HOSE VALVE W/CAP
- WATER MOTOR GONG
- SPARE SPRINKLER CABINET
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FAGAP — FIRE ALARM GRAPHIC ANNUNCIATOR PANEL

ABBREVIATIONS

(EX), EXIST.	EXISTING
FS	FLOW SWITCH
TS	TAMPER SWITCH
FDV	FIRE DEPARTMENT VALVE
FDC	FIRE DEPARTMENT CONNECTION
FVC	FIRE VALVE CABINET
FHC	FIRE HOSE CABINET
MIN.	MINIMUM
TYP.	TYPICAL
U/G	UNDER GROUND
GPM	GALLONS PER MINUTE
CAP	CAPACITY
P.S.	PRESSURE SWITCH
RX	REMOVE EXISTING

NOTES

1. SEE SHEET FX501 FOR DETAILS.
2. SOME SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY NOT APPLY.

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PROJECT NUMBER: 3024096.00 HDG PROJECT NUMBER: 24019

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — HARRELL DESIGN GROUP, PC No. C02713

DIGITAL SIGNATURE NOT VALID UNLESS CERTIFICATE IS VISIBLE BELOW SEAL

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER — No. 39705 — ZACHARY MARC LOYACONO

Digitally signed by Zachary Marc Loyacono
Date: 2025.07.14 15:21:12-04'00'

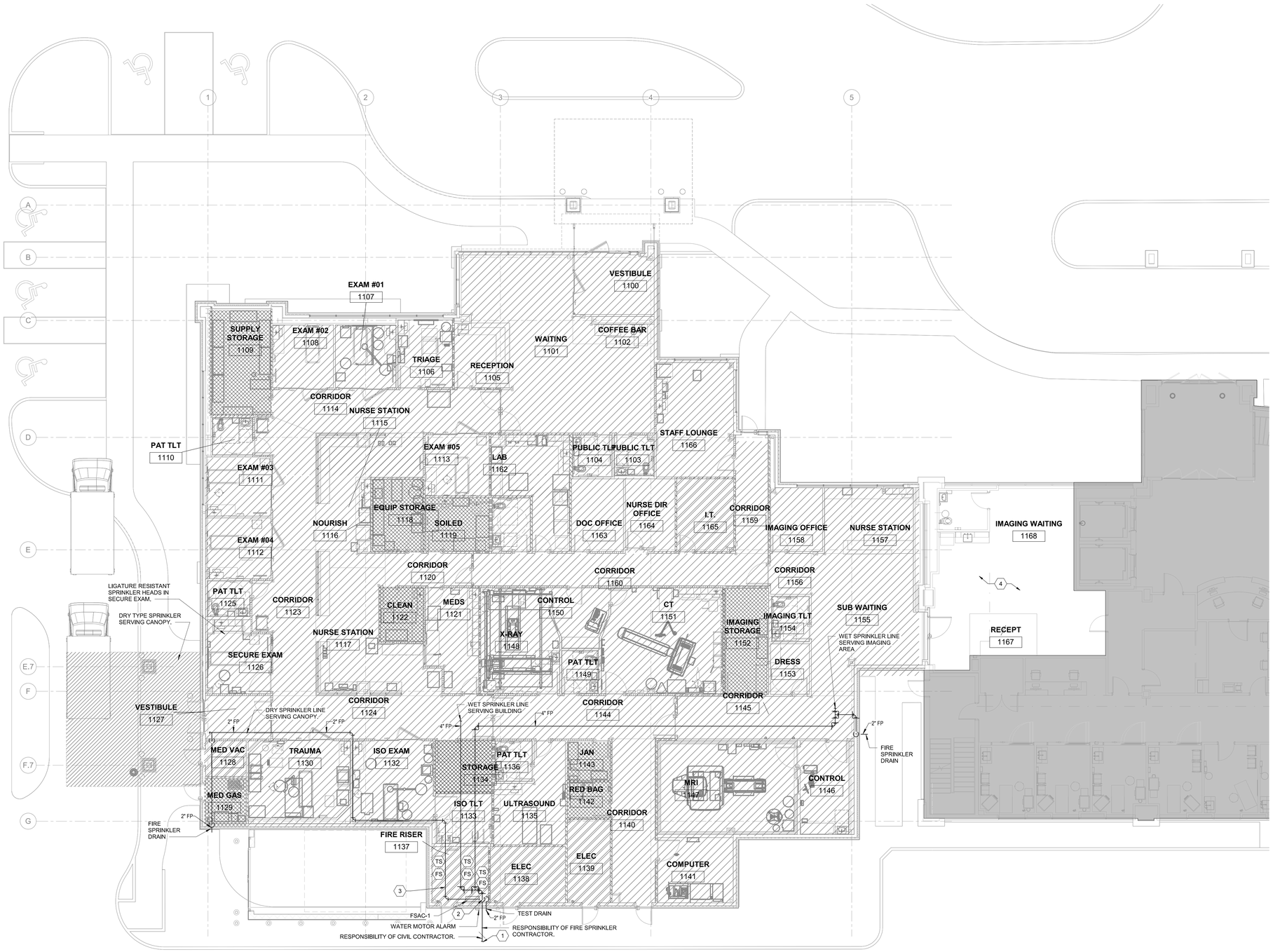
ORIG SUBMISSION: 07.03.2025
CURRENT:

SHEET TITLE AND NUMBER:

FX0.01

GENERAL NOTES, SYMBOLS & LEGENDS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED ORIGINAL PLOTTED SHEETS



1 **FIRE PROTECTION - FLOOR PLAN**
1/8" = 1'-0"
0 2' 4' 8'

GENERAL NOTES

1. REFER TO SHEET FX001 FOR LEGEND, ABBREVIATIONS, SCHEDULES AND GENERAL NOTES.

SHEET KEYNOTES

1. SEE SHEET C8.0 FOR MORE INFORMATION.
2. PIPE MOUNTED COMPRESSOR AND CHECK VALVE ASSEMBLY.
3. PROVIDE PRESSURE SENSOR FOR DRY SPRINKLER ZONE. SENSOR SHALL BE MONITORED BY OTHERS.
4. RELOCATE EXISTING SPRINKLER HEADS TO ACCOMMODATE REVISED CEILING LAYOUT.

WALL RATING LEGEND

- SMOKE PARTITION
- 1 HR FIRE BARRIER
- 1 HR FIRE / SMOKE BARRIER
- 2 HR FIRE BARRIER
- 2 HR FIRE / SMOKE BARRIER
- 3 HR FIRE BARRIER
- 3 HR FIRE / SMOKE BARRIER
- 4 HR FIRE BARRIER
- 4 HR FIRE / SMOKE BARRIER
- FIRE RATED DOOR

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MEDICAL EQUIPMENT PLANNER
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CMC CONWAY MEDICAL CENTER
CMC Socastee FSED
6016 HIGHWAY 707
MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00
HDG PROJECT NUMBER: 24019

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA
HARRELL DESIGN GROUP, PC
No. C02713
CERTIFICATE OF AUTHORIZATION

DIGITAL SIGNATURE NOT VALID UNLESS CERTIFICATE IS VISIBLE BELOW SEAL

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 39705
ZACHARY MARC LOYACONO

Digitally signed by Zachary Marc Loyacono
Date: 2025.07.14 15:21:36-04'00'

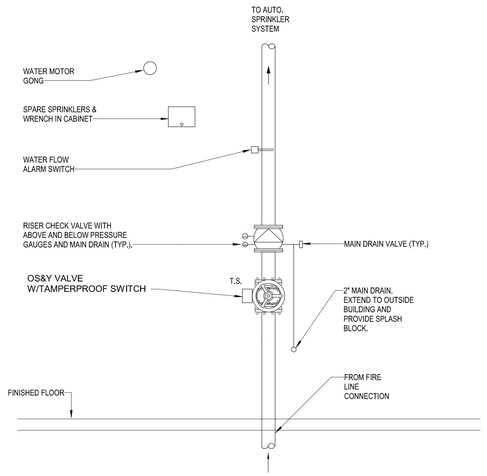
ORIG SUBMISSION: 07.03.2025
CURRENT:

SHEET TITLE AND NUMBER:

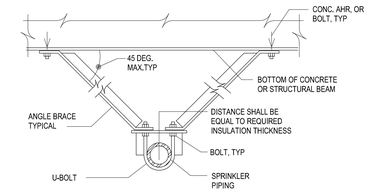
FX1.01

FLOOR PLAN - FIRE PROTECTION

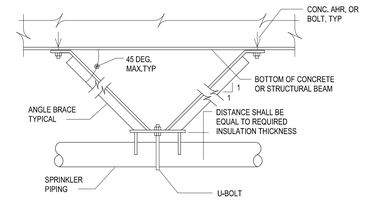
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL ARCH D SHEETS



9 WET PIPE RISER DETAIL
NOT TO SCALE



TRANSVERSE BRACE DETAIL



LONGITUDINAL BRACE DETAIL

NOTES:

A. DETAILS SHOWN ARE FOR PIPE BRACING, OTHER EQUIPMENT BRACING SHALL BE SIMILAR.

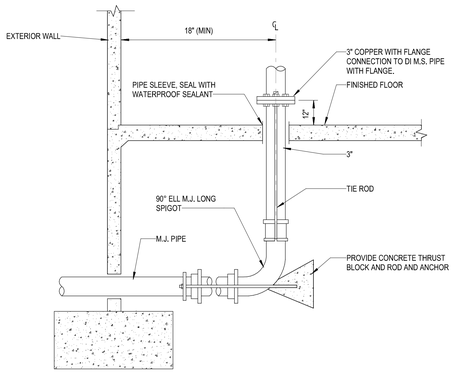
B. PL SIZES SHALL BE COORDINATED WITH PIPING, AND EQUIPMENT ACTUAL SIZES.

C. BRACE SIZES, SPACINGS, LOCATIONS, AND ATTACHMENTS SHALL BE AS SPECIFIED. BRACES SHALL BE FULLY COORDINATED WITH STRUCTURAL FRAMING AND WITH ALL OTHER BUILDING MATERIALS AND SERVICES.

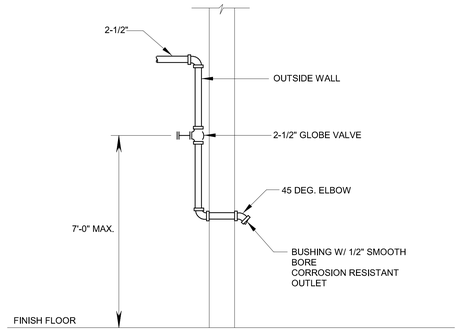
D. TRANSVERSE AND LONGITUDINAL BRACES MAY BE COMBINED WHERE REQUIRED TO RESIST MOTIONS IN BOTH DIRECTIONS AT THE SAME TIME.

E. PIPING CLAMPS MAY BE UTILIZED IN LIEU OF WELDING AT BLACK STEEL OR OTHER PIPING MATERIALS.

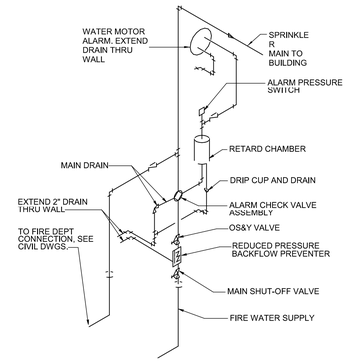
5 SEISMIC BRACING DETAIL
NOT TO SCALE



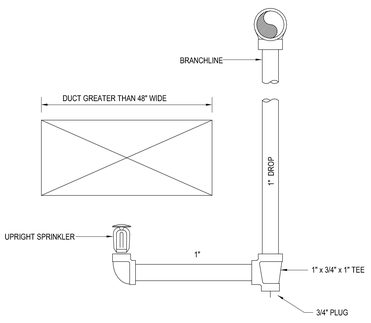
8 PIPE ENTRANCE DETAIL
NOT TO SCALE



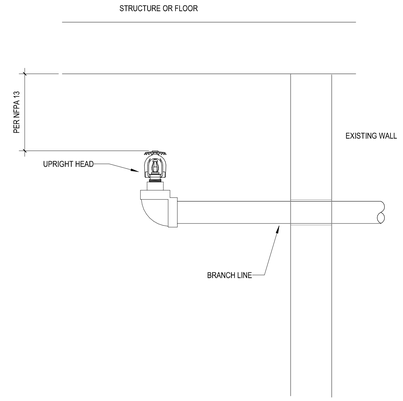
7 TEST CONNECTION DETAIL
NOT TO SCALE



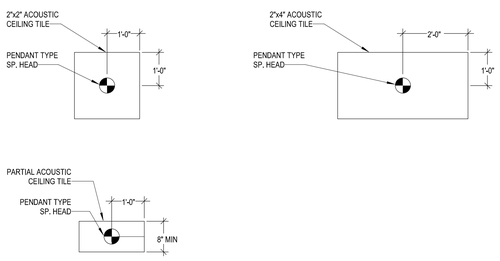
6 ALARM CHECK VALVE DETAIL
NOT TO SCALE



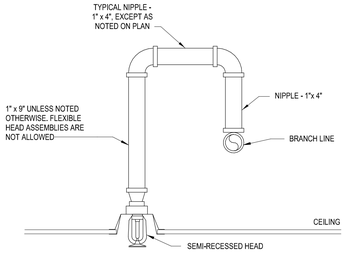
4 DUCT SPRINKLER DETAIL
NOT TO SCALE



3 TYPICAL UPRIGHT HEAD THROUGH WALL DETAIL
NO SCALE



2 SPRINKLER HEAD LOCATION
NOT TO SCALE



1 SEMI-RECESSED SPRINKLER HEAD DETAIL
NOT TO SCALE

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
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CMC CONWAY MEDICAL CENTER with Howard Health

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HARRELL DESIGN GROUP, PC No. C02713

DIGITAL SIGNATURE NOT VALID UNLESS CERTIFICATE IS VISIBLE BELOW SEAL

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 39705 ZACHARY MARC LOYACONO

Digitally signed by Zachary Marc Loyacono
Date: 2025.07.14 15:27:16-04'00'

ORIG SUBMISSION: 07.03.2025
CURRENT:

SHEET TITLE AND NUMBER:

FX5.01

FIRE PROTECTION DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE PERSONAL AT 36"

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	PIPE TURNING DOWN
	PIPE TURNING UP
	PIPE CAP
	TEE TURNING DOWN
	TEE TURNING UP
	CIRCUIT SETTER
	SHUT-OFF VALVE
	CHECK VALVE
	BALANCING VALVE (PLUG TYPE)
	PRESSURE REDUCING VALVE
FD	FLOOR DRAIN
RD	ROOF DRAIN
ORD	OVERFLOW ROOF DRAIN
FCO	FLOOR CLEANOUT
CO	END-OF-LINE CLEANOUT
WCO	WALL CLEANOUT
YCO	YARD CLEANOUT
SA-A	SHOCK ARRESTER (SUFFIX INDICATES PDI SIZE)
	UNION
FPHB	FROST PROOF HOSE BIB
HB	HOSE BIB
TP	TRAP PRIMER
	DIRECTION OF FLOW
	POINT OF DEMOLITION
	CONNECT TO EXISTING
	FLEXIBLE CONNECTOR
	MIXING VALVE

ABBREVIATIONS	
A	MEDICAL AIR
ABV	ABOVE
AFF	ABOVE FINISH FLOOR
BLW	BELOW
BF	BARRIER FREE
BFF	BELOW FINISH FLOOR
CA	COMPRESSED AIR
CO	CLEANOUT
CO2	CARBON DIOXIDE
CONT	CONTINUATION
DCW	DOMESTIC COLD WATER
DFU	SANITARY DRAINAGE FIXTURE UNITS
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DN	DOWN
(EX), EXIST.	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FR, FRM	FROM
FLR	FLOOR
FPHB	FROST PROOF HOSE BIBB
HB	HOSE BIBB
I.E., INV, EL.	INVERT ELEVATION
LAV	LAVATORY
MH	MOUNTING HEIGHT
N	NITROGEN
NO	NITROUS OXIDE
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
O	OXYGEN
ORD	OVERFLOW ROOF DRAIN
ORL	OVERFLOW RAINWATER LEADER
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RO	REVERSE OSMOSIS
RWL	RAINWATER LEADER
SA	SHOCK ARRESTOR
SAN, S	SANITARY
SD	STORM DRAIN
ST	STORM
SS	SERVICE SINK
TD	TRENCH DRAIN
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT or VACUUM
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WCO	WALL CLEANOUT

PIPE LEGEND

NEW PIPE	PIPE DESCRIPTION
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
S	SANITARY DRAIN & WASTE
V	VENT
RWL	RAIN WATER LEADER
ORWL	OVERFLOW RAIN WATER LEADER
MA	MEDICAL AIR
MV	MEDICAL VACUUM
O	OXYGEN

WATER HAMMER ARRESTOR SCHEDULE

SYMBOL	FIXTURE UNITS	MAX. FLUID TEMP.	CONNECTED PIPE SIZE	REMARKS
WHA-A	1 - 11	180°F	1/2"	LOCATE IN ACCORDANCE WITH PDI WH 201 STANDARD/PROVIDE ACCESS DOORS AS REQUIRED
WHA-B	12 - 32	180°F	3/4"	LOCATE IN ACCORDANCE WITH PDI WH 201 STANDARD/PROVIDE ACCESS DOORS AS REQUIRED
WHA-C	33 - 60	180°F	1"	LOCATE IN ACCORDANCE WITH PDI WH 201 STANDARD/PROVIDE ACCESS DOORS AS REQUIRED
WHA-D	61 - 113	180°F	1 1/4"	LOCATE IN ACCORDANCE WITH PDI WH 201 STANDARD/PROVIDE ACCESS DOORS AS REQUIRED
WHA-E	114 - 154	180°F	1 1/2"	LOCATE IN ACCORDANCE WITH PDI WH 201 STANDARD/PROVIDE ACCESS DOORS AS REQUIRED
WHA-F	155 - 330	180°F	2"	LOCATE IN ACCORDANCE WITH PDI WH 201 STANDARD/PROVIDE ACCESS DOORS AS REQUIRED

NOTES: PROVIDE WHA-B FOR TOILET ROOMS WITH FLUSH VALVE TOILETS.

RECIRCULATING PUMP SCHEDULE

MARK	TYPE	(GPM)	HEAD (FEET)	HP	WATTS	VOLTAGE	PHASE	BASIS OF DESIGN	REMARKS
RP-1	HOT WATER RECIRCULATOR	4	20	1/10	28	120	1	BELL AND GOSSETT ECOCIRC CIRCULATOR 20-XX	1 - 8

1. PROVIDE WITH 1" FLANGE KIT AND AQUASTAT. PUMP MOTOR TO HAVE INTEGRAL THERMAL OVERLOAD.
2. PROVIDE WITH HARD WIRED KIT.
3. DISCONNECT TO BE PROVIDED BY DIVISION 26.
4. PUMP SHALL BE POWERED FROM EMERGENCY POWER.
5. LEAD FREE CONSTRUCTION.
6. MULTI-SPEED PUMP, SET TO MAINTAIN WATER TEMPERATURE 130 F.
7. PROVIDE WITH ONE WAY CHECK VALVE.
8. PROVIDE WITH CIRCUIT SETTER AND SET TO 4 GPM.

WATER HEATER SCHEDULE

MARK	LOCATION	TYPE	MIN. STORAGE CAPACITY (GAL.)	GPH RECOVERY	PLUMBING						ELECTRIC	BASIS OF DESIGN	REMARKS
					CW	HW	DRAIN	EWT (DEG F)	LWT (DEG F)	KW	VOLT/PHASE		
EWH-1	RM 1137	ELECTRIC	80	68	3/4"	3/4"	3/4"	68	140	12	480/3	A.O.SMITH DEN-80	NOTES 1, 2
EWH-2	RM 1137	ELECTRIC	80	68	3/4"	3/4"	3/4"	68	140	12	480/3	A.O.SMITH DEN-80	NOTES 1, 2

NOTES:
1. DISCONNECT TO BE PROVIDED BY DIV 26.
2. PROVIDE WITH WATER HEATER PAN, BASIS OF DESIGN - HOLD RIGHT: QP-28.

GENERAL PLUMBING NOTES

A. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AND VERIFY ALL POINTS OF CONNECTIONS PRIOR TO SUBMITTING A BID.

B. COORDINATE PLUMBING PIPING WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.

C. SLOPE WATER PIPING FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.

D. PROVIDE ACCESS PANELS AT CONCEALED VALVES, WATER HAMMER ARRESTORS AND OTHER DEVICES ABOVE HARD CEILINGS AND WALLS.

E. PROVIDE CLEANOUTS WITH TOPS DESIGNED FOR SPECIFIC FLOOR FINISHES SUCH AS CARPET, TILE, ETC. UNLESS NOTED OTHERWISE.

F. COORDINATE WALL AND FLOOR PENETRATIONS AND INSTALL SLEEVES IN FLOORS.

G. REFER TO EQUIPMENT DETAILS FOR VENT PIPING AND VALVING NOT INDICATED ON THE PLANS.

H. DO NOT SCALE DRAWINGS. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DOORS, WINDOWS, WALLS, ETC.

I. INSTALL CLEANOUTS AT BASE OF ALL SANITARY AND STORM STACKS, AT ALL CHANGE IN DIRECTIONS GREATER THAN 45° AND IN STRAIGHT RUNS AT LEAST EVERY 50 FT.

J. LOCATE VERTICAL SUPPLY, STORM DRAINS, SANITARY WASTE, AND VENT PIPING IN WALLS OR PARTITIONS, UNLESS NOTED OTHERWISE.

K. LOCATE VENT, DOMESTIC SUPPLY AND MEDICAL GAS SUPPLY PIPING ABOVE CEILING , UNLESS NOTED OTHERWISE, LOCATE SANITARY AND STORM PIPING BELOW FINISHED FLOOR, UNLESS NOTED OTHERWISE.

L. EXTEND VENTS UP AND COLLECT VENTS ABOVE THE CEILING.

M. PROVIDE FOR ACCESS TO EQUIPMENT REQUIRING CLEANING, ADJUSTMENT OR MAINTENANCE.

N. FIRESTOP ALL PENETRATIONS THROUGH RATED WALL AND FLOORS, USE UL LISTED PENETRATION MATERIALS.

O. COORDINATE ALL PHASES OF WORK AND INTERRUPTIONS IN SERVICE.

P. THESE ENGINEERING DRAWINGS ARE DIAGRAMMATIC. PROVIDE WORK AND MATERIAL FOR A COMPLETE INSTALLATION. MAKE PROPER HOT AND COLD WATER, WASTE, VENT, ETC., PIPING CONNECTION TO FIXTURES AND EQUIPMENT; PROVIDE PIPE ESCUTCHEONS; DIELECTRIC UNIONS, DRIP PANS, PIPE LABELS, VALVE TAGS, ANCHORS, SUPPORT SEALS, SLEEVE SEALS, ISOLATION VALVES, CLEANOUTS, ETC. IN QUANTITIES FOR A COMPLETE SYSTEM. PROVIDE EQUIPMENT, PLUMBING FIXTURES, TRIM HARDWARE AND / OR DEVICES UTILIZED IN THIS CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THESE DRAWINGS, BUT ARE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK.

Q. PROVIDE INSULATION ON NEW PIPING PER SPECIFICATIONS.

R. LOCATE PIPING STACKS AND RISERS OUTSIDE OF LOAD BEARING WALLS.

S. ALL PLUMBING FIXTURES TO BE SEALED AT FLOOR OR WALL USING SANITARY SEALANT APPROVED FOR THE PURPOSE.

T. PIPING SHALL NOT BE ROUTED ABOVE IT ROOMS, ELECTRICAL ROOMS, ELECTRICAL EQUIPMENT, OR UNDERNEATH ELECTRICAL ROOMS.

U. PIPE HANGERS, BRACES AND RESTRAINTS SHALL ADEQUATELY SUPPORT THE SYSTEM HORIZONTALLY AND VERTICALLY AND SHALL ALLOW FOR MOVEMENT WITHOUT TRANSMITTING STRESS OR VIBRATION TO THE STRUCTURE. HANGERS ON INSULATED PIPING SHALL BE PROVIDED WITH AND SHALL BE SIZED TO ACCOMMODATE HANGER SHIELDS. HORIZONTAL SOIL, WASTE AND VENT PIPING HUNG FROM BUILDING CONSTRUCTION SHALL BE SUPPORTED AT NOT OVER 5 FEET NEXT TO FITTINGS, PROVIDE ADDITIONAL SUPPORT AT JOINT, CHANGES IN DIRECTION AND ELSEWHERE AS REQUIRED TO MAINTAIN PROPER ALIGNMENT.

V. CLEAN FIXTURES, ADJUST VALVES, AND LEAVE THE SYSTEM IN GOOD WORKING ORDER. REMOVE DEBRIS AND RUBBISH AND REPAIR ANY DAMAGE CAUSED BY THE WORK.

W. PROVIDE SUPPORT DEVICES, ALL LOCATIONS SHOULD BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION. DO NOT USE THE SUPPORTS OF OTHER TRADES.

X. PROVIDE SEISMIC BRACING FOR ALL PIPING IN ACCORDANCE WITH NFPA 13. PROVIDE SHOP DRAWINGS OF ALL SEISMIC CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA.

Y. SEE CIVIL PLAN - C8.0. FOR DOMESTIC SUPPLY, SANITARY AND STORM PIPING 5'-0" BEYOND BUILDING OR CANOPIES, DIVISION 22 SHALL BE RESPONSIBLE FOR PIPING WITHIN BUILDING AND ONLY UP TO 5'-0" BEYOND BUILDING ENVELOPE OR CANOPIES.

Z. ALL HOSE CONNECTIONS SHALL TERMINATE AT A VACUUM BREAKER TO PROTECT THE POTABLE WATER SYSTEM.

AA. ALL OUTLETS OF SINKS AND LAVATORIES SHALL TERMINATE WITH FLOW LAMINAR OUTLET.

BB. ALL POTABLE WATER PIPING SHALL BE COPPER WITH SWEAT FITTINGS. PRESS-CONNECTION TYPE FITTINGS IE, PROPRESS, OR SHARKBITE SHALL NOT BE ALLOWED.

CC. ALL SANITARY, STORM AND VENT PIPING, WITHIN STRUCTURE, SHALL BE HUB-LESS CAST IRON.

DD. ALL STORM PIPING SHALL BE INSULATED.

CONTRACTOR COORDINATION

THE GENERAL CONTRACTOR SHALL TAKE THE LEAD IN PREPARING COORDINATION DRAWINGS. SUCH DRAWINGS SHALL BE ARRANGED AND DESIGNED THROUGH AND FROM COORDINATION WITH ALL OTHER MAJOR AND MINOR SUBCONTRACTORS. PROVIDE PLAN VIEWS, SECTIONS, AND ELEVATIONS AS REQUIRED TO FULLY COORDINATE ALL NEW WORK. DRAW TO SCALE (AT NOT LESS THAN 3/8"=1'0"). DRAWINGS SHALL SHOW, BUT NOT BE LIMITED TO: ALL WALL RATINGS, DUCTWORK, AIR DISTRIBUTION, MECHANICAL EQUIPMENT, MECHANICAL PIPING, FIRE PROTECTION PIPING, PLUMBING PIPING, CABLE TRAYS, LIGHTING FIXTURES, CEILING GRID, CEILING HEIGHT, MAJOR BEAMS AND JOISTS (WITH ELEVATIONS MARKED), FIRE, SAFETY, AND SECURITY ALARM DEVICES (WHERE CEILING MOUNTED), ELECTRICAL CONDUITS LARGER THAN 2 INCH DIAMETER, ELECTRICAL BUSWAY AND REQUIRED CLEARANCES, AND ANY EQUIPMENT PROVIDED BY OTHERS THAT PROTRUDE INTO THE CEILING CAVITIES OR IMPEDE THE LOCATION OR ACCESS TO ABOVE CEILING PIPING, DUCTWORK, OR OTHER EQUIPMENT, SECTIONS SHALL BE CUT THROUGH AREAS SHOWING MATERIALS AND SYSTEMS OF ALL CONTRACTS. IT IS IMPORTANT TO NOTE THAT FABRICATION CANNOT BEGIN UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED.

THE CONTRACTOR SHALL OBTAIN A COPY OF THE FINAL SITE LATEST VENDOR DRAWINGS PRIOR TO PROCURING OR INSTALLING ANY EQUIPMENT, ANY REWORK REQUIRED BY THE CONTRACTOR'S FAILURE TO OBTAIN THESE DRAWINGS SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL NOT RESULT IN ANY ADDITIONAL TIME TO THE PROJECT. THE CONTRACTOR SHALL MEET THE REPRESENTATIVE OF THE VENDOR PRIOR TO THE START OF WORK. ALL WORK SHALL COMPLY WITH ALL VENDOR REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN ON THESE DRAWINGS AND ALL WORK SHOWN ON THE VENDOR DRAWINGS. THE PHRASE "SUPPLIED BY CUSTOMER" (OR DERIVATIVES) MEANS "PROVIDED BY CONTRACTOR."

MEDICAL VACUUM PUMP SCHEDULE

MARK	TYPE	(SCFM)	TYPE	HP PER PUMP	VOLTAGE	PHASE	BASIS OF DESIGN	REMARKS
VP-1	MEDICAL VACUUM PUMP - DUPLEX	8	DUPLEX - OIL LESS ROTARY	2	480	3	BEACONMEDAES VDV-02XX	1 - 3

1. DISCONNECT TO BE PROVIDED BY DIVISION 26.
2. PROVIDE WITH 80 GALLON VERTICAL RECEIVER AND CONTROLER.
3. SKID MOUNTED.

MEDICAL GAS MASTER ALARM PANEL SCHEDULE

SYMBOL	OXYGEN		MEDICAL AIR		VACUUM	LINE PRESS. ALARM W/ DIGITAL GAUGES READOUT	MANUFACTURER
	RESERVE IN USE OR LOW	HIGH/LOW LINE PRESS.	RESERVE IN USE OR LOW	HIGH/LOW LINE PRESS.	HIGH/LOW LINE PRESS.		
MAP-1 - 2 SEE PLAN FOR LOCATIONS	●	●	●	●	●	●	BEACON MEDAES

NOTE:
1. BASIS OF DESIGN FOR MEDICAL GAS ALARM PANEL IS BEACON MEDAES.
2. MAP-1 TO MONITOR GAS MANIFOLDS AND MEDICAL VACUUM EQUIPMENT, PANEL LOCATED AT NURSE STATION AND RECEPTION 1105.

ZONE AREA ALARM PANEL SCHEDULE

SYMBOL	OXYGEN	MEDICAL AIR	VACUUM	LINE PRESS. ALARM W/ DIGITAL GAUGES READOUT	MANUFACTURER
	HIGH/LOW LINE PRESS.	HIGH/LOW LINE PRESS.	HIGH/LOW LINE PRESS.		
AP-1-3 SEE PLAN FOR LOCATIONS	●	●	●	●	BEACON MEDAES

NOTE:
1. BASIS OF DESIGN FOR MEDICAL GAS ALARM PANEL IS BEACON MEDAES.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	SAN	VENT	HW	CW	REMARKS
P-101	FLOOR MTD WATER CLOSET (ADA) - PUBLIC REST ROOM	4"	2"	-	1-1/4"	ELONGATED BOWL, SIPHON JET, ADA RIM HEIGHT WITH HARD-WIRED DUAL FLUSH SENSOR FLUSH VALVE, ANTI-MICROBIAL SURFACE, OPEN-FRONT HEAVY-DUTY SEAT LESS COVER, PROVIDE WITH REMOTE MOUNTED TRANSFORMER WITH 10'-0" CORD LOCATED ABOVE CEILING AND ALIGNED WITH FIXTURE PROVIDE LOW VOLTAGE WIRE TO REACH FLUSH VALVE SENSOR CONNECTION. AMERICAN STANDARD MODEL#3461.XXX, SLOAN MODEL # 111 XXXXX.
P-102	FLOOR MTD WATER CLOSET (ADA) - PATIENT REST ROOM	4"	2"	-	1-1/4"	ELONGATED BOWL, SIPHON JET, ADA RIM HEIGHT WITH MANUAL FLUSH VALVE WITH BED PAN WASHER, ANTI-MICROBIAL SURFACE, OPEN-FRONT HEAVY-DUTY SEAT LESS COVER, PROVIDE BED PAN LUGS. AMERICAN STANDARD MODEL#3462.XXX, ZURN Z6011AV-XXXXXX.
P-102A	FLOOR MTD WATER CLOSET (ADA) - ISOLATION REST ROOM - BARIATRIC RATED	4"	2"	-	1-1/4"	BARIATRIC BOWL, TOP SPUD INLET, FLOOR OUTLET,SIPHON JET, STAINLESS STEEL BODY WITH WHITE POWDER COAT FINISH, ADA RIM HEIGHT WITH MANUAL FLUSH VALVE WITH BED PAN WASHER, ANTI-MICROBIAL SURFACE, OPEN-FRONT HEAVY-DUTY SEAT LESS COVER, PROVIDE BED PAN LUGS. 1.6 GPF, WHITEHALL MANUFACTURING MODEL#WH2125 - XXX, ZURN Z6011AV-XXXXXX.
P-103	LAVATORY (ADA) - PUBLIC & PATIENT / REST ROOM	1½"	1¼"	½"	½"	WALL HUNG 20"x18" VITREOUS CHINA WITH GOOSE NECK HARD-WIRED SENSOR FAUCET, SUPPLIES AND P-TRAP TO BE INSULATED; ADA COMPLIANT, CHROME PLATED BRASS GRID STRAINER, CHROME PLATED CAST BRASS P-TRAP, CHROME PLATED ¼ TURN KEYED ANGLE TYPE STOPS, PROVIDE WITH TRANSFORMER WITH 10'-0" CORD LOCATED ABOVE CEILING, AMERICAN STANDARD MODEL#0356.XXX, SLOAN MODEL#SF-2100-XXXXXXX, PROVIDE WITH ZURN 250 LBS. RATED LAVATORY CARRIER AND TV-1 IN COMPLIANCE WITH ASSE 1070.
P-104	LAVATORY (ADA)- STAFF REST ROOM	1½"	1¼"	½"	½"	WALL HUNG 20"x18" VITREOUS CHINA WITH GOOSE NECK MANUAL FAUCET W/ 6" WRIST BLADES, SUPPLIES AND P-TRAP TO BE INSULATED; ADA COMPLIANT, CHROME PLATED BRASS GRID STRAINER, CHROME PLATED CAST BRASS P-TRAP, CHROME PLATED ¼ TURN KEYED ANGLE TYPE STOPS, AMERICAN STANDARD MODEL#0355.XXX, CHICAGO FAUCETS MODEL#895-XXX, PROVIDE WITH ZURN 250 LBS. RATED LAVATORY CARRIER AND TV-1 IN COMPLIANCE WITH ASSE 1070.
P-104A	LAVATORY (ADA)- ISOLATION REST ROOM - BARIATRIC RATED	1½"	1¼"	½"	½"	WALL HUNG D SHAPE BOWL, STAINLESS STEEL WITH WHITE POWDER COAT FINISH, GOOSE NECK MANUAL FAUCET W/ 6" WRIST BLADES, SUPPLIES AND P-TRAP TO BE INSULATED; ADA COMPLIANT, CHROME PLATED BRASS GRID STRAINER, CHROME PLATED CAST BRASS P-TRAP, CHROME PLATED ¼ TURN KEYED ANGLE TYPE STOPS, WHITEHALL MANUFACTURING MODEL#WH3740BAR-XXX, CHICAGO FAUCETS MODEL#895-XXX, PROVIDE WITH ZURN 1000 LBS. RATED LAVATORY CARRIER AND TV-1 IN COMPLIANCE WITH ASSE 1070.
P-105	SINGLE COMPARTMENT SINK - EXAM ROOM	2"	2"	½"	½"	SINGLE COMPARTMENT, DROP IN, 20 GAUGE, TYPE 304 STAINLESS STEEL, 19"x19"x 5" DEEP BOWL, FAUCET WITH 6" WRIST BLADE HANDLES AND GOOSE NECK SWING SPOUT AND LAMINAR FLOW, STAINLESS STEEL DRAIN WITH BASKET STRAINER, CENTER REAR DRAIN. ELKAY MODEL#LRAD2XXXXXX, CHICAGO FAUCET MODEL#895-XXX. PROVIDE WITH TV-1 IN COMPLIANCE WITH ASSE 1070.
P-106	SINGLE COMPARTMENT SINK - LAB AREA WITH EYEWASH	2"	2"	½"	½"	SINGLE COMPARTMENT, DROP IN, 20 GAUGE, TYPE 304 STAINLESS STEEL, 22"x19"x 5" DEEP BOWL, FAUCET WITH 6" WRIST BLADE HANDLES AND GOOSE NECK SWING SPOUT AND LAMINAR FLOW, DECK MOUNTED EMERGENCY EYEWASH WITH AUTO FLOW, STAINLESS STEEL DRAIN WITH BASKET STRAINER, CENTER REAR DRAIN, ELKAY MODEL#LRAD22XXXX, CHICAGO FAUCET MODEL#895-XXXX, GUARDIAN G18XX. PROVIDE WITH TV-1 IN COMPLIANCE WITH ASSE 1070 FOR FAUCET. PROVIDE WITH TV-2 IN COMPLIANCE WITH ASSE 1070 FOR EYEWASH.
P-107	SINGLE COMPARTMENT SINK - STAFF LOUNGE	2"	2"	½"	½"	SINGLE COMPARTMENT, DROP IN, 20 GAUGE, TYPE 304 STAINLESS STEEL, 19"x19"x 5" DEEP BOWL, FAUCET WITH 6" WRIST BLADE HANDLES AND GOOSE NECK SWING SPOUT AND LAMINAR FLOW, STAINLESS STEEL DRAIN WITH BASKET STRAINER, CENTER REAR DRAIN. ELKAY MODEL#LRAD19XXXX, CHICAGO FAUCET MODEL#895-XXX. PROVIDE WITH TV-1 IN COMPLIANCE WITH ASSE 1070.
P-108	CLINICAL SERVICE SINK	4"	2"	3/4"	1¼"	WALL MOUNTED CLINIC SINK, 1" OFFSET, AND SERVICE SINK FAUCET, BED PAN WASHER W/ FOOT CONTROLS, HOSE WAND ASSEMBLY, ADA COMPLIANT, AMERICAN STANDARD MODEL#9512XXX, 8345.XXX UTILITY FAUCET, SLOAN MODEL # ROYAL 117-XXXXXXXX, ZURN Z12XX, ZURN Z85500-XXXXXXXXX.
P-109	MOP RECEPTOR	3"	2"	½"	½"	FLOOR MOUNTED TERRAZZO MOP BASIN 28"x28" WITH RIM GUARDS, CHROME PLATED CAST BRASS WALL MOUNTED SERVICE SINK FAUCET W/ VACUUM BREAKER, STAINLESS STEEL BACK SPLASH TWO SIDES TO 60" AFF, FIAT MODEL # TSBCXXXX, AMERICAN MODEL#8345.XXX UTILITY FAUCET.
P-110	ICE MAKER BOX	-	-	-	½"	ICE MAKER BOX GUY GRAY MODEL# MIBIHXXX WITH WATER HAMMER ARRESTOR, IN-LINE FILTER AND BACKFLOW PREVENTER.
P-111	HOSE BIBB	-	-	-	3/4"	HOSE BIBB, LOCKABLE COVER, FROST PROOF, ZURN 13XX.
P-112	ELECTRIC WATER COOLER (ADA)	1½"	1½"	-	½"	WALL HUNG DUAL UNIT WITH BOTTLE FILL, STAINLESS STEEL, LOW SIDE MOUNTED AT HANDICAPPED HEIGHT (FOR BUBBLER). 8.0 GPH, 115V/1a, 5 AMPS, 370 WATTS, ELKAY MODEL#LZWS-XXXXXXX
P-113	ROOF HYDRANT	-	-	-	3/4"	ROOF HYDRANT, LOCKABLE LIFT HANDLE, FROST PROOF, ZURN 138---.

NOTE:

1. ALL WALL MOUNTED FIXTURES SHALL BE PROVIDED WITH FLOOR MOUNTED, CONCEALED ARM WALL CARRIER.
2. ALL EXPOSED P-TRAPS SHALL BE PROVIDED W/ LAN SHIELDS.
3. PROVIDE BACKFLOW PREVENTER AT CONNECTION TO OWNER FURNISHED EQUIPMENT PER IPC.
4. PROVIDE OFFSET GRID DRAINS AT BARRIER-FREE LOCATIONS.
5. PROVIDE HYDRAULIC TRAP PRIMERS FOR FLOOR DRAINS IN REST ROOMS, RISER ROOM AND MED VAC ROOM.

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	FLOW RATE (GPM)	AVG. TEMPERATURE (DEG. F.)	INLET SIZE	OUTLET SIZE	REMARKS
TV-1	0.5-2.5	110	3/8"	3/8"	FOR LAVATORIES, SINKS - BASIS OF DESIGN WATTS SERIES LFUSG-B, ASSE 1070 COMPLIANT
TV-2	13	85	3/4"	3/4"	FOR EYEWASH - BASIS OF DESIGN GARDIAN G6020, ASSE 1070 COMPLIANT

DRAIN & CLEANOUT SCHEDULE

MARK	TYPE	DESCRIPTION	BASIS OF DESIGN	NOTES
FD-1	FLOOR DRAIN	SQUARE NICKEL BRONZE ADJUSTABLE 6" STRAINER WITH CAST IRON BODY & TRAP PRIME CONNECTION	J.R.SMITH MODEL 2005Y-X- X	NOTE 1 BY PIPE SIZE
RD-1	ROOF DRAIN	COMBINATION ROOF DRAIN AND OVERFLOW	ZURN - Z10XX FROXX	BY PIPE SIZE
HD-1	HUB DRAIN	HUB DRAIN BENEATH SINK WITH TRAP AND FIXED AIR GAP.	ZURN - Z10XX	2"
DS-1	DOWN SPOUT	DOWN SPOUT NOZZLE NO HUP CON. - NICKEL BODY	ZURN - Z1XX	BY PIPE SIZE
FCO	FLOOR	CAST IRON ADJUSTABLE FLOOR CLEANOUT WITH ROUND NICKEL BRONZE TOP	ZURN - Z140X	BY PIPE SIZE
WCO	WALL	CAST IRON WALL CLEANOUT W/ CAST BRASS THREADED PLUG PROVIDE WITH STAINLESS STEEL WALL PLATE	ZURN - Z14XX	BY PIPE SIZE
GCO	WALL	GRADE CLEANOUT W/ ABS THREADED PLUG, PROVIDE WITH C.I. HEAVY DUTY HOUSING	ZURN - Z14XX/Z14XX	BY PIPE SIZE

NOTES: 1. PROVIDE WITH TRAP PRIMER VALVE EQUAL TO PPP MODEL NO. P1-500 AND VANDAL PROOF SCREWS.

MEDICAL GAS MANIFOLD SCHEDULE

DESCRIPTION	MEDICAL GAS	REMARKS
MEDICAL GAS MANIFOLD ASSEMBLIES:	CARBON DIOXIDE	
MGAM-1	BEACONMEDEAS CATALOG NO. - MNE-XXXX	MOUNTING HEIGHT AT 5'-6" TO BOTTOM OF BOX, PROVIDE WITH 2 TYPE H BOTTLES ON PRIMARY AND 2 TYPE H BOTTLES ON BACKUP.
MGOM-1	BEACONMEDEAS CATALOG NO. - MNE-XXXX	MOUNTING HEIGHT AT 5'-6" TO BOTTOM OF BOX, PROVIDE WITH 3 TYPE H BOTTLES ON PRIMARY AND 3 TYPE H BOTTLES ON BACKUP.

NOTES:
1. CHAIN TANKS TO WALL.
2. PROVIDE 120 V 15 AMP, CIRCUIT.

MEDICAL GAS EQUIPMENT

SYMBOL	MANUFACTURER MODEL NO.	LOCATION
MEDICAL GAS ZONE VALVE BOX (ZVB-1, 2, 3) TRIPLE VALVE BOX 1|/x3/4"x3/4".	SEE PLAN FOR VALVE SIZES AND QUANTITIES, BEACON MEDAES.	MOUNTING HEIGHT AT 5'-6" TO TOP OF BOX, PROVIDE VALVES WITH GAUGES, SEE PLANS.
MEDICAL GAS OR VACUUM OUTLETS: (MGO-1) - TRAUMA ROOM - HEADWALL (MGO-2) - IMAGING ROOMS - WALL OUTLETS (MGO-3) - EXAM ROOMS - HEADWALL (MGO-4) - SECURE EXAM ROOM - HEADWALL	HEADWALL PROVIDED BY OTHERS. WALL OUTLET - DISS OUTLETS. HEADWALL PROVIDED BY OTHERS. LOCKABLE HEADWALL PROVIDED BY OTHERS. FINAL CONNECTIONS BY PLUMBING CONTRACTOR.	CONTRACTOR SHALL COORDINATE CONNECTIONS TO HEADWALLS WITH HEADWALL MANUFACTURER PROVIDED. (MGO-1) - OUTLET COUNT - BY OTHERS (MGO-2) - OUTLET COUNT - (1) O2, (1) MA, (1) MV, (1) SL (MGO-3) - OUTLET COUNT - BY OTHERS (MGO-4) - OUTLET COUNT - BY OTHERS
VACUUM SLIDE ASSEMBLY	FURNISHED WITH NEW HEADWALLS.	MOUNT AT SAME LEVEL AS GAS OUTLETS.

NOTE:
1. BASIS OF DESIGN IS BEACON MEDAES. ALL OUTLETS TO BE DISS TYPE.
2. AREA ZONE ALARM LOCATED AT NURSE STATION.

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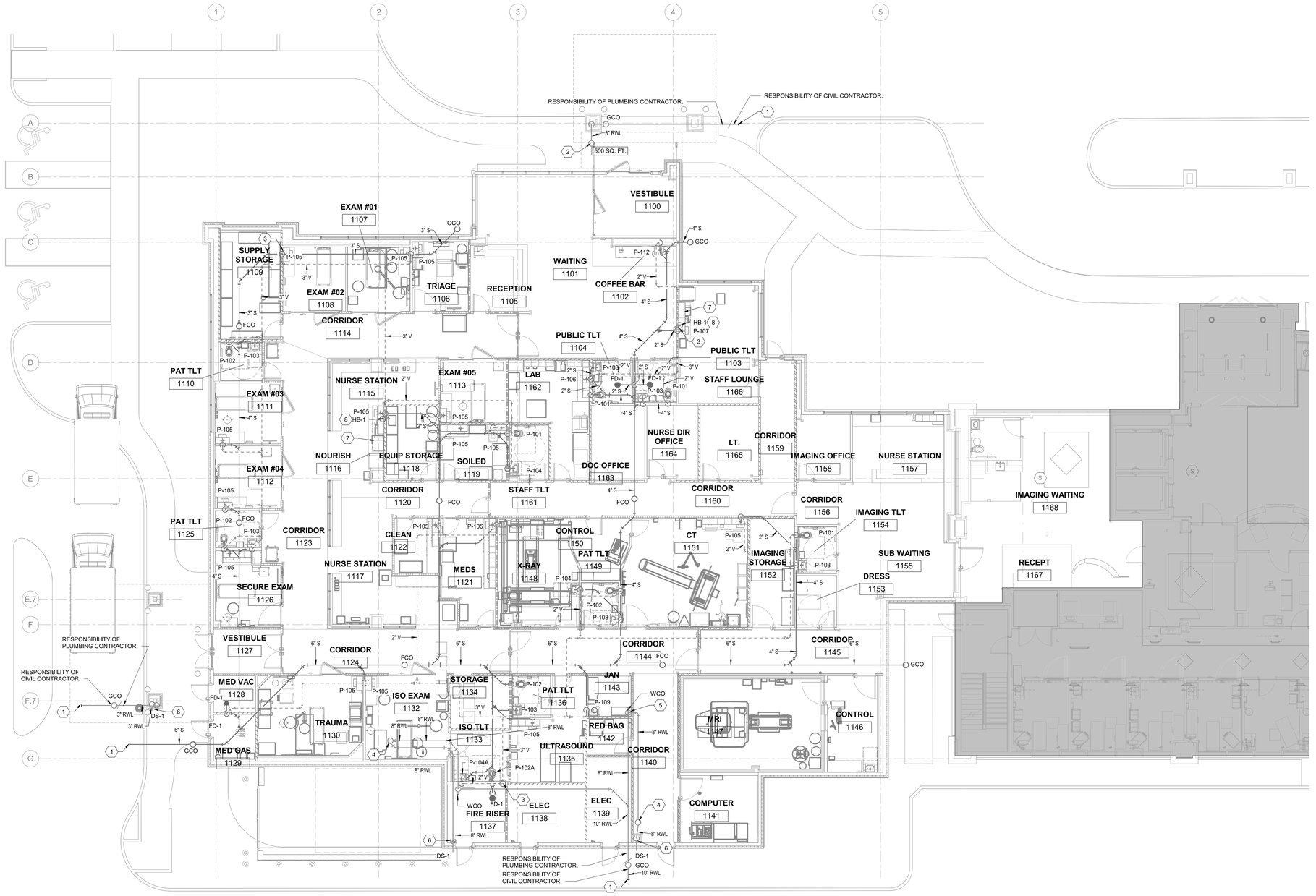
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GENERAL NOTES, LEGENDS, & SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PLOT SIZE



1 **WASTE AND VENT PIPING - FLOOR PLAN**
1/8" = 1'-0"
0 2' 4' 8'

GENERAL NOTES

1. REFER TO SHEET PL001 FOR LEGEND, ABBREVIATIONS, SCHEDULES AND GENERAL NOTES.
2. PLUMBING CONTRACTOR, FOUNDATION CONTRACTOR AND CIVIL CONTRACTOR SHALL COORDINATE TO FIELD DETERMINE THE EXACT ELEVATION OF THE SANITAGRY AND STORM PIPING BELOW THE STRUCTURE.

SHEET KEYNOTES

1. SEE SHEET C8.0 FOR MORE INFORMATION. MATCH INVERT ELEVATION.
2. 3" RWL TO ROOF GUTTER CONNECTION.
3. UP TO 3" VTR.
4. 8" RAIN WATER LEADER DOWN FROM ROOF ABOVE.
5. 10" RAIN WATER LEADER DOWN TO SUB-SURFACE PIPING.
6. INSTALL DS-1 1'-0" ABOVE FINISHED FLOOR AS MEASURED FROM BOTTOM EDGE OF DOWN SPOUT TO TOP SURFACE OF SIDE WALK.
7. ICE MAKER EQUIPMENT VENDOR SHALL CONNECT DISCHARGE OF ICE MAKER TO HUB DRAIN. DISCHARGE PIPING SHALL FASTENED TWO PIPE DIAMETER ABOVE FLOOD RIM OF HUB DRAIN.
8. INSTALL HB-1 UNDER SINK BEHIND ADA BARRIER.

WALL RATING LEGEND

- SMOKE PARTITION
- 1 HR FIRE BARRIER
- 1 HR FIRE / SMOKE BARRIER
- 2 HR FIRE BARRIER
- 2 HR FIRE / SMOKE BARRIER
- 3 HR FIRE BARRIER
- 3 HR FIRE / SMOKE BARRIER
- 4 HR FIRE BARRIER
- 4 HR FIRE / SMOKE BARRIER
- FIRE RATED DOOR

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No. 39705
ZACHARY MARC LOYACONO

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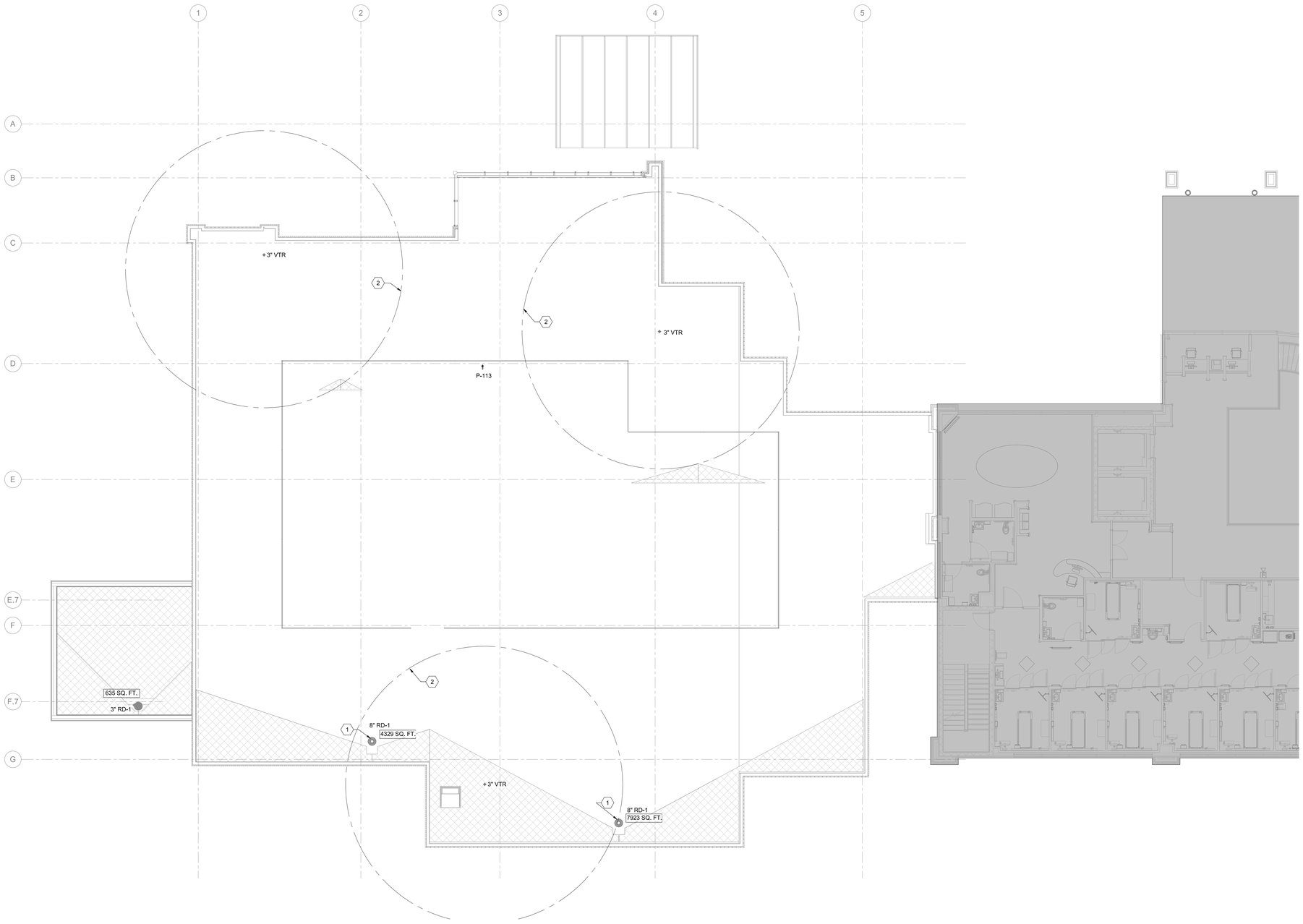
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PLUMBING PLAN - SANITARY

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED ORIGINAL PLOT SET



1 **WASTE AND VENT PIPING - ROOF PLAN**
1/8" = 1'-0"
0 2' 4' 8'

GENERAL NOTES

1. REFER TO SHEET PL001 FOR LEGEND, ABBREVIATIONS, SCHEDULES AND GENERAL NOTES.

SHEET KEYNOTES

1. COORDINATE WITH ARCHITECTURE FOR THE LOCATION OF THE ROOF DRAIN ASSEMBLIES.
2. NO VENTILATION AIR INTAKES SHALL BE LOCATED WITHIN 25'-0" RADIUS OF PLUMBING VENT.

WALL RATING LEGEND

- SMOKE PARTITION
- 1 HR FIRE BARRIER
- 1 HR FIRE / SMOKE BARRIER
- 2 HR FIRE BARRIER
- 2 HR FIRE / SMOKE BARRIER
- 3 HR FIRE BARRIER
- 3 HR FIRE / SMOKE BARRIER
- 4 HR FIRE BARRIER
- 4 HR FIRE / SMOKE BARRIER
- FIRE RATED DOOR

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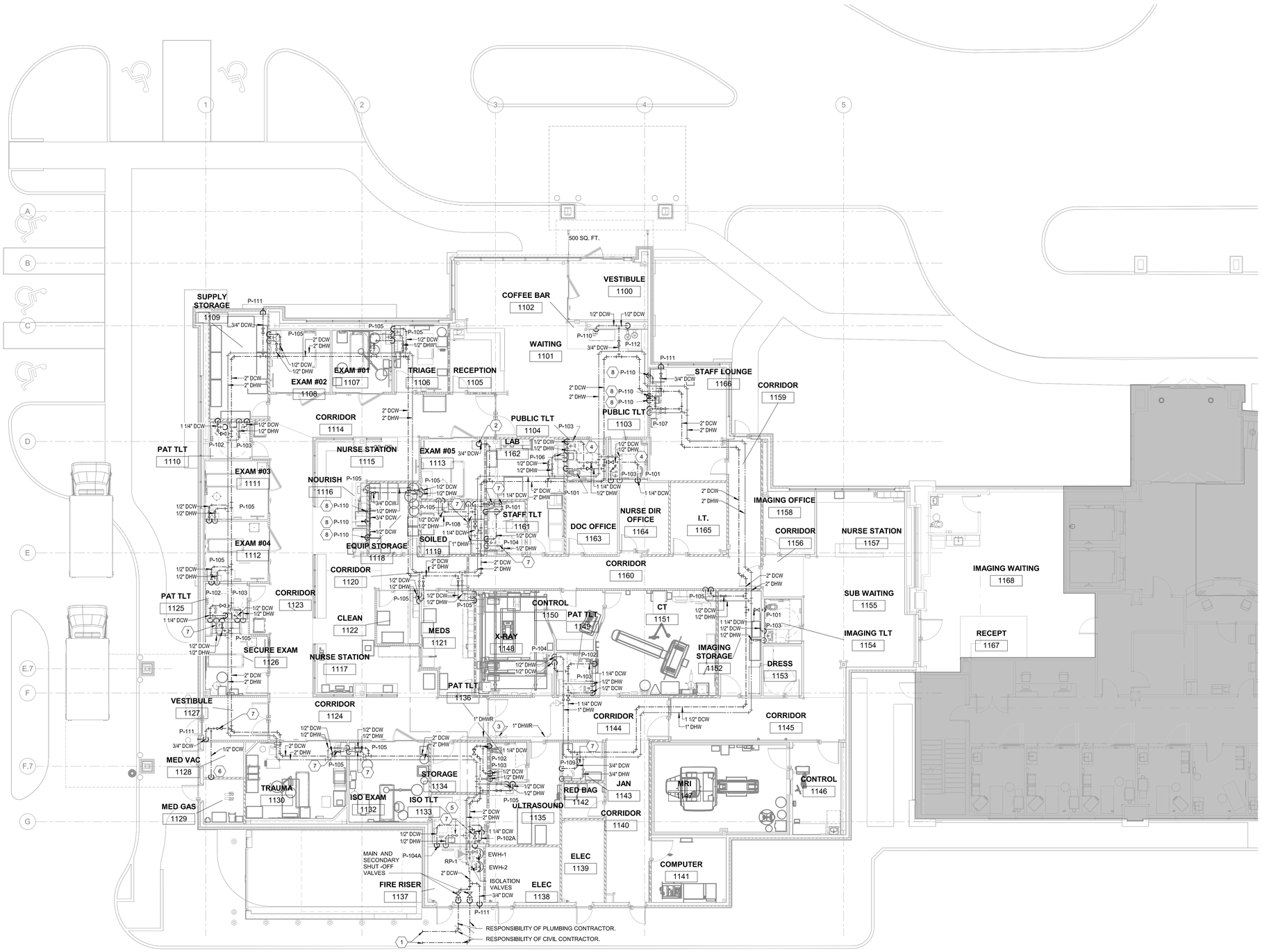
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ROOF PLAN - SANITARY

THE LINE SHOWN ABOVE IS EXACTLY ONE PERSONAL INCH ON ORIGINAL ARCH D SHEETS



1 DOMESTIC SUPPLY - FLOOR PLAN

1/8" = 1'-0"

0 2' 4' 8'

GENERAL NOTES

1. REFER TO SHEET PL001 FOR LEGEND, ABBREVIATIONS, SCHEDULES AND GENERAL NOTES.
2. SHUT-OFF VALVE SHALL BE PROVIDED FOR EACH ROOM OR AREA WITH PLUMBING FIXTURES.

SHEET KEYNOTES

1. PRIMARY AND SECONDARY DOMESTIC COLD WATER SUPPLY. SEE SHEET C8.0 FOR PIPE INVERT AND MORE INFORMATION.
2. 3/4" DCW UP TO P-113.
3. SET CIRCUIT SETTER TO 4 GPM.
4. INSTALL TRAP PRIMER AT BASE OF LAVATORY. CONNECT DISCHARGE TO NEAREST FLOOR DRAIN.
5. INSTALL TRAP PRIMER AT BASE OF LAVATORY. CONNECT DISCHARGE TO FLOOR DRAIN IN FIRE RISER ROOM 1137.
6. INSTALL TRAP PRIMER 1'-0" ABOVE FINISHED FLOOR.
7. CONNECT DISCHARGE TO FLOOR DRAINS IN ROOMS 1128.
8. PROVIDE 12X12 ACCESS PANEL FOR SHUT OFF VALVES.
8. COORDINATE THE HEIGHT OF ICE BOX (P-110) WITH A5.21 AND A5.22 TO BE INLINE WITH ELECTRICAL OUTLETS.

WALL RATING LEGEND

- SMOKE PARTITION
- 1 HR FIRE BARRIER
- 1 HR FIRE / SMOKE BARRIER
- 2 HR FIRE BARRIER
- 2 HR FIRE / SMOKE BARRIER
- 3 HR FIRE BARRIER
- 3 HR FIRE / SMOKE BARRIER
- 4 HR FIRE BARRIER
- 4 HR FIRE / SMOKE BARRIER
- FIRE RATED DOOR

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PLUMBING PLAN - DOMESTIC SUPPLY

THE LINE SHOWN ABOVE IS EXACTLY ONE PERSONAL FOOT WIDE



1 MEDICAL GAS SUPPLY - FLOOR PLAN

1/8" = 1'-0"

0 2' 4' 8'

GENERAL NOTES

1. REFER TO SHEET PL001 FOR LEGEND, ABBREVIATIONS, SCHEDULES AND GENERAL NOTES.
2. MGOM-1 AND MGAM-1 MANIFOLDS SHALL HAVE SEPARATE RELIEF VENTS ROUTED UP THROUGH ROOF AND TERMINATE WITH A GOOSE NECK FITTING 5'-0" ABOVE ROOF DECK.
3. VACUUM PUMP DISCHARGE SHALL BE ROUTED UP THROUGH ROOF AND TERMINATE WITH A GOOSE NECK FITTING 5'-0" ABOVE ROOF DECK.
4. ALL PIPING SHALL BE SEISMICALLY BRACED.

SHEET KEYNOTES

1. MEDICAL AIR RELIEF VENT UP TO ROOF.
2. MEDICAL OXYGEN RELIEF VENT UP TO ROOF.
3. MEDICAL VACUUM PUMP DISCHARGE UP TO ROOF ABOVE.

WALL RATING LEGEND

- SMOKE PARTITION
- 1 HR FIRE BARRIER
- 1 HR FIRE / SMOKE BARRIER
- 2 HR FIRE BARRIER
- 2 HR FIRE / SMOKE BARRIER
- 3 HR FIRE BARRIER
- 3 HR FIRE / SMOKE BARRIER
- 4 HR FIRE BARRIER
- 4 HR FIRE / SMOKE BARRIER
- FIRE RATED DOOR

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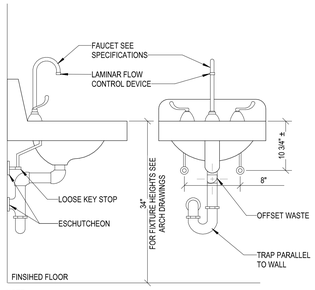
ORIG SUBMISSION: 07.03.2025
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SHEET TITLE AND NUMBER:

P1.04

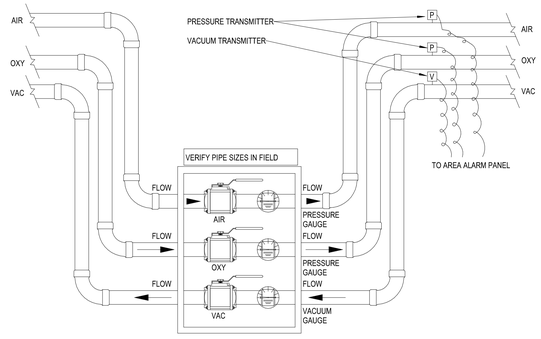
PLUMBING PLAN - MEDICAL GAS SUPPLY

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" ORIGINAL PLOT SHEETS

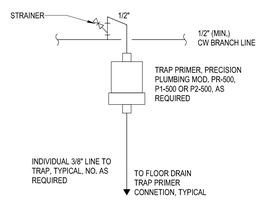


NOTE:
PROVIDE COVER FOR EXPOSED PIPING.

13 TYPICAL WHEELCHAIR LAVATORY DETAIL
NOT TO SCALE

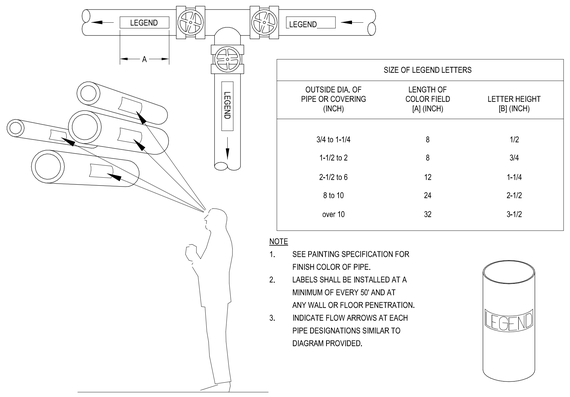


12 MEDICAL GAS ZONE VALVE BOX
NOT TO SCALE



NOTE:
TYPE TO BE USED WHERE BEST SUITED FOR APPLICATION. PRIMER LINES DOWNSTREAM OF TRAP SHALL BE SLOPED TO GRAVITY FLOW TO THE FLOOR DRAINS. POCKETS, UPWARD TURNS SHALL NOT BE PERMITTED. EACH PRIMER LINE SHALL SERVE NO MORE THAN ONE DRAIN.

11 HYDRAULIC TRAP PRIMER DETAIL
NOT TO SCALE

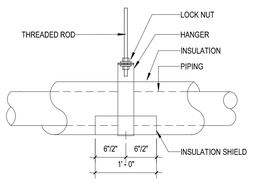


SIZE OF LEGEND LETTERS		
OUTSIDE DIA. OF PIPE OR COVERING (INCH)	LENGTH OF COLOR FIELD [A] (INCH)	LETTER HEIGHT [B] (INCH)
3/4 to 1-1/4	8	1/2
1-1/2 to 2	8	3/4
2-1/2 to 6	12	1-1/4
8 to 10	24	2-1/2
over 10	32	3-1/2

NOTE
1. SEE PAINTING SPECIFICATION FOR FINISH COLOR OF PIPE.
2. LABELS SHALL BE INSTALLED AT A MINIMUM OF EVERY 50' AND AT ANY WALL OR FLOOR PENETRATION.
3. INDICATE FLOW ARROWS AT EACH PIPE DESIGNATIONS SIMILAR TO DIAGRAM PROVIDED.

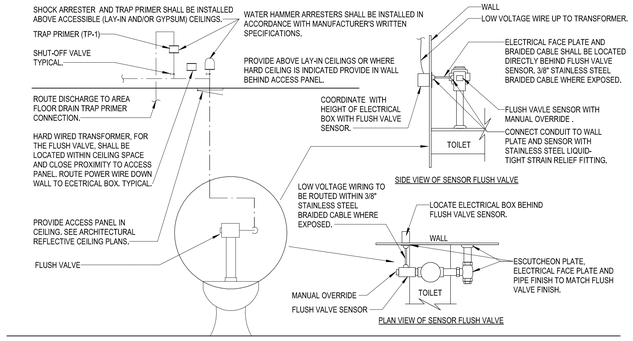
10 PIPING SYSTEM IDENTIFICATION
NOT TO SCALE

INSULATION SHIELD LENGTH				
PIPE SIZE	INSULATION THICKNESS			GAGE
	1/2"	3/4"	1"	
1/2" TO 4"	12"	12"	12"	18

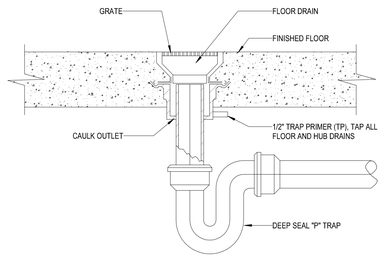


NOTE: HANGER SHIELD IS TYPICAL FOR INSULATED PIPING

9 INSULATION SHIELD DETAIL
NOT TO SCALE



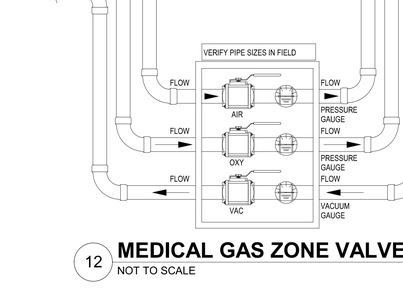
8 TYPICAL SENSOR ACTIVATED TOILET DETAIL
NOT TO SCALE



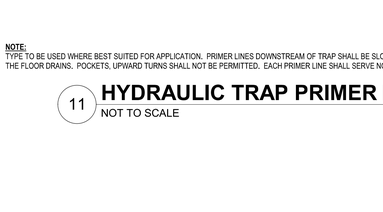
7 TYPICAL FLOOR DRAIN DETAIL
NOT TO SCALE

6 FLOOR CLEANOUT DETAIL
NOT TO SCALE

COUNTER MOUNTED SINK



3 ICE MAKER VALVE BOX DETAIL
NOT TO SCALE



TRANSVERSE BRACE DETAIL

LONGITUDINAL BRACE DETAIL

NOTES:

A. DETAILS SHOWN ARE FOR PIPE BRACING, OTHER EQUIPMENT BRACING SHALL BE SIMILAR.

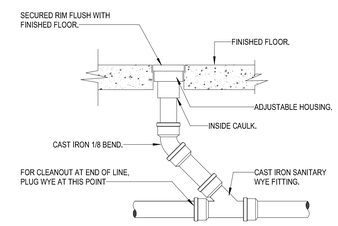
B. PL SIZES SHALL BE COORDINATED WITH PIPING, AND EQUIPMENT ACTUAL SIZES.

C. BRACE SIZES, SPACINGS, LOCATIONS, AND ATTACHMENTS SHALL BE AS SPECIFIED. BRACES SHALL BE FULLY COORDINATED WITH STRUCTURAL FRAMING AND WITH ALL OTHER BUILDING MATERIALS AND SERVICES.

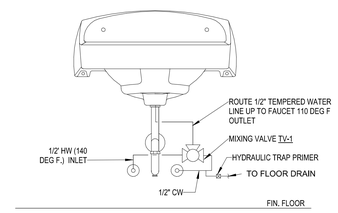
D. TRANSVERSE AND LONGITUDINAL BRACES MAY BE COMBINED WHERE REQUIRED TO RESIST MOTIONS IN BOTH DIRECTIONS AT THE SAME TIME.

E. PIPING CLAMPS MAY BE UTILIZED IN LIEU OF WELDING AT BLACK STEEL OR OTHER PIPING MATERIALS.

1 SEISMIC BRACING DETAIL
NOT TO SCALE

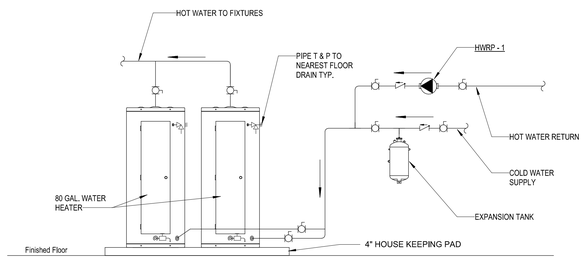


5 CLEAN OUT DETAIL
NOT TO SCALE



WALL MOUNTED LAVATORY

4 MIXING VALVE FOR SINKS/LAVATORIES
1 1/2" = 1'-0"



2 DUAL ELECTRIC WATER HEATER PIPING DIAGRAM
NOT TO SCALE

ENVIRONMENTS FOR HEALTH **e4h ARCHITECTURE**
501 Elm St, Ste 500, Dallas, TX 75202
888.781.8441 817.226.1917 e4harchitecture.com

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CMC CONWAY MEDICAL CENTER with Howard Health

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MAZZETTI+GBA
615.376.3108

CMC CONWAY MEDICAL CENTER
CMC Socasfee FSED
6016 HIGHWAY 707
MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00 HDG PROJECT NUMBER: 24019

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA — HARRELL DESIGN GROUP, PC No. 002713 — CERTIFICATE OF AUTHORIZATION

DIGITAL SIGNATURE NOT VALID UNLESS CERTIFICATE IS VISIBLE BELOW SEAL

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 39705 — ZACHARY MARC LOYACONO

Digitally signed by Zachary Marc Loyacono
Date: 2025.07.14 15:29:00-04'00'

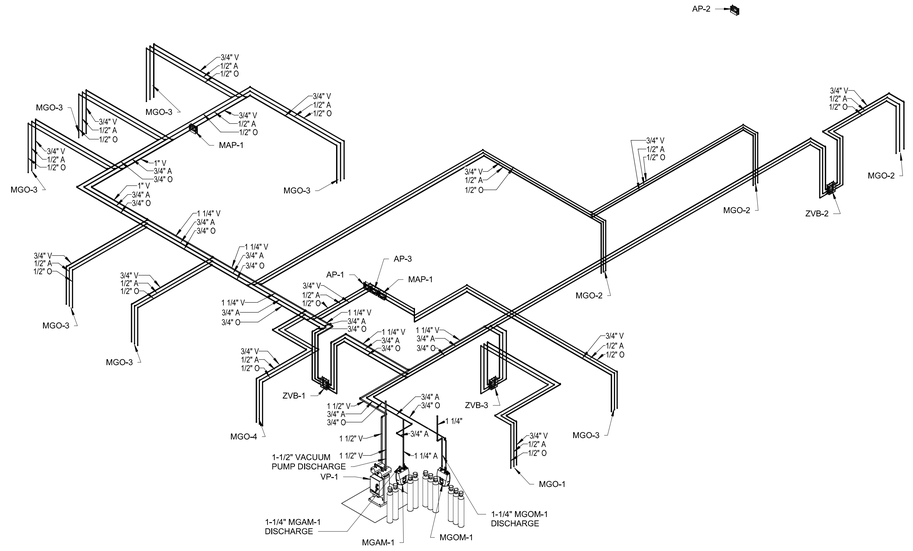
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CURRENT:

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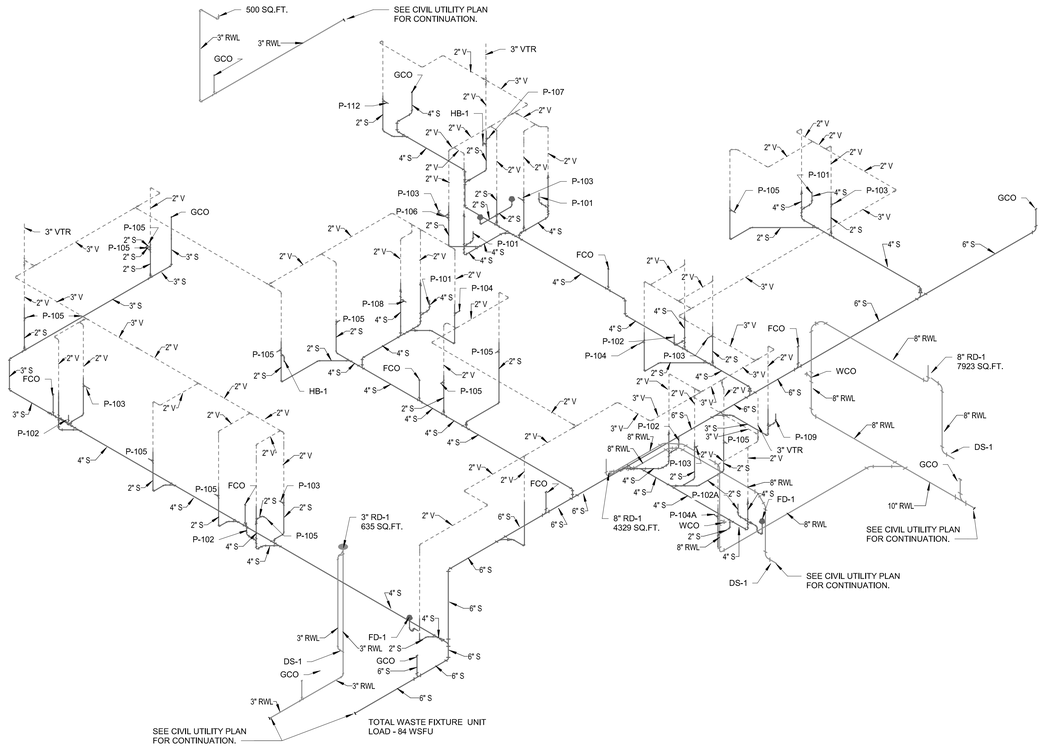
P5.01

PLUMBING DETAILS

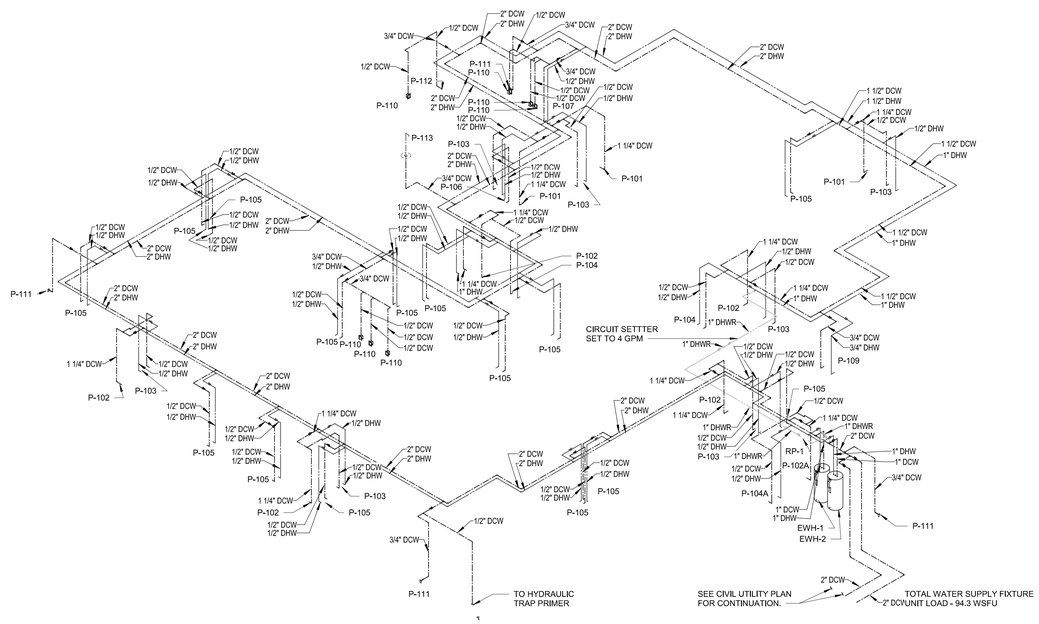
THE LINE SHOWN ABOVE IS EXACTLY ONE PERSONAL INCH ON THESE ORIGINAL PLOT SHEETS



1 **MEDICAL GAS ISOMETRIC**



2 **WASTE ISOMETRIC**



3 **DOMESTIC SUPPLY ISOMETRIC**

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CMC Socasfee FSED
6016 HIGHWAY 707
MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00 HDG PROJECT NUMBER: 24019

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA HARRELL DESIGN GROUP, PC No. 002713 CERTIFICATE OF AUTHORIZATION

DIGITAL SIGNATURE NOT VALID UNLESS CERTIFICATE IS VISIBLE BELOW SEAL

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 39705 ZACHARY MARC LOYACONO

Digitally signed by Zachary Marc Loyacono
Date: 2025.07.14 15:29:20-04'00'

ORIG SUBMISSION: 07.03.2025
CURRENT:

SHEET TITLE AND NUMBER:

P7.01

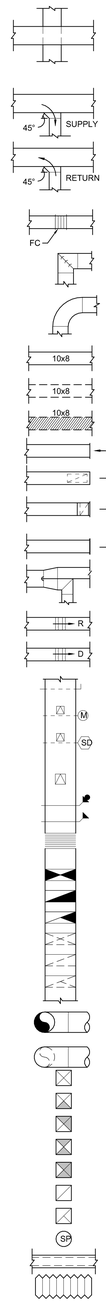
PLUMBING PLAN - ISOMETRICS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL ARCH D SHEETS ORIGINAL PLOT SIZE

STANDARD ABBREVIATIONS

A		
A	A	AMPS
A	A/E	ARCHITECT/ENGINEER
A	ACH	AIR CHANGES PER HOUR
A	ACS	AIR CONDITIONING SYSTEM
A	AD	ACCESS DOOR
A	AF	AFTER FILTER
A	AFF	ABOVE FINISHED FLOOR
A	AFG	ABOVE FINISHED GRADE
A	AFMD	AIR FLOW MEASURING DEVICE
A	AHU	AIR HANDLING UNIT
A	AL	ACOUSTIC LINING
A	ALD	AUTOMATIC LOUVER DAMPER
A	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
A	AP	ACCESS PANEL
A	APD	AIR PRESSURE DROP
A	ARCH	ARCHITECT
A	ARI	AIR CONDITIONING AND REFRIGERATIONS
A	AS	AIR SEPARATOR
A	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
B		
B	B	BOILER
B	BDD	BACKDRAFT DAMPER
B	BHP	BRAKE HORSEPOWER
B	BLDG	BUILDING
B	BRD	BAROMETRIC RELIEF DAMPER
B	BTUH	BRITISH THERMAL UNIT PER HOUR
C		
C	C	CENTIGRADE (CELSIUS)
C	C	CONVERTER
C	CC	COOLING COIL
C	CCD	COOLING COIL CONDENSATE DRAIN
C	CD	CEILING DIFFUSER
C	CFM	CUBIC FEET PER MINUTE
C	CFS	CUBIC FEET PER SECOND
C	CH	CHILLER
C	CHR	CHILLED WATER RETURN
C	CHS	CHILLED WATER SUPPLY
C	COD	CABLE OPERATED DAMPER
C	CT	COOLING TOWER
C	CV	CONSTANT VOLUME
C	CVR	CONSTANT VOLUME RETURN
C	CVS	CONSTANT VOLUME SUPPLY
D		
D	DA	DENTAL AIR
D	DB	DRY BULB
D	dB	DECIBELS
D	DC	DIRECT CURRENT
D	DDC	DIRECT DIGITAL CONTROLS
D	DEG	DEGREE
D	DEMO	DEMOLITION
D	DF	DIFFUSER
D	DIA	DIAMETER
D	DIAG	DIAGONAL DIAGRAM OR DIAGRAM DIAGONAL
D	DIM	DIMENSION
D	DIST	DISTANCE
D	DIV	DIVIDE OR DIVISION
D	DN	SET OR TURN DOWN
D	DP	DEWPOINT
D	DPS	DIFFERENTIAL PRESSURE SENSOR
D	DWDI	DOUBLE WIDTH DOUBLE INLET
D	DWG	DRAWING
E		
E	EA	EXHAUST AIR
E	EAT	ENTERING AIR TEMPERATURE
E	EF	EXHAUST FAN
E	EG	EXHAUST GRILLE
E	EL	ELEVATION
E	ELEC	ELECTRIC, ELECTRICAL
E	ELEVS	ELEVATIONS
E	EMR	ELEVATOR MACHINE ROOM
E	ENGR	ENGINEER
E	ENT	ENTERING
E	EQ	EQUAL
E	EQUIP	EQUIPMENT
E	EQUIV	EQUIVALENT
E	ERD	EXISTING ROOF DRAIN
E	ESMT	EASEMENT
E	ESP	EXTERNAL STATIC PRESSURE
E	ET	EXPANSION TANK
E	ETC	AND SO FORTH OR ET CETERA
E	EWT	ENTERING WATER TEMPERATURE
E	EX	EXISTING
E	EXH	EXHAUST
E	EXIST	EXISTING
F		
F	F	FAHRENHEIT OR FEMALE
F	FA	FREE AREA
F	FC	FLEXIBLE CONNECTION
F	FD	FLOOR DRAIN OR FIRE DAMPER
F	FM	FLOW METER
F	FP	FIRE PROTECTION OR FIREPROOF
F	FPB	FAN-POWERED BOX
F	FPM	FEET PER MINUTE
F	FPS	FEET PER SECOND
F	FR	FIRE RATING, FIRE RESISTANT, OR FRAME
F	FREQ	FREQUENCY
F	FS	FLOW SWITCH
F	FSD	COMBINATION FIRE SMOKE DAMPER
F	FSTAT	FREEZESTAT
F	FT	FEET OR FOOT
F	FTST	FLOAT & THERMOSTATIC STEAM TRAP
G		
G	GA	GAUGE
G	GAL	GALLON
G	GALV	GALVANIC OR GALVANIZED
G	GC	GENERAL CONTRACTOR
G	GS	GALVANIZED STEEL
G	GYP BD	GYPSUM BOARD
H		
H	HAC	HOUSEKEEPING AID CLOSET
H	HC	HEATING COIL
H	HD	HEAD
H	HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
H	HOA	HAND/OFF/AUTOMATIC
H	HORIZ	HORIZONTAL
H	HP	HORSEPOWER
H	HWP	HOT WATER PUMP
H	HWR	HOT WATER RETURN
H	HWS	HOT WATER SUPPLY
H	HX	HEAT EXCHANGER
H	HZ	HERTZ
I		
I	I/O	INPUT/OUTPUT
I	IBST	INVERT BUCKET STEAM TRAP
I	ID	INSIDE DIAMETER
I	IN	INCHES
I	IN WG	INCHES WATER GAUGE
I	IN-LB	INCH-POUND
K		
K	kg	KILOGRAM
K	kPa	KILOPASCAL
K	KPL	KICKPLATE
K	kW	KILOWATT
K	kWh	KILOWATT HOUR
K	KX	KITCHEN EXHAUST
L		
L	LAT	LEAVING AIR TEMPERATURE
L	LBS	POUND
L	LBS/HR	POUNDS PER HOUR
L	LF	LINEAR FOOT (FEET)
L	LWT	LEAVING WATER TEMPERATURE
M		
M	M	METER OR MOTOR
M	MA	MIXED AIR
M	MAINT	MAINTAIN, MAINTENANCE
M	MAN	MANUAL
M	MAT	MIXED AIR TEMPERATURE
M	MAX	MAXIMUM
M	MBH	1000 BTUH
M	MCA	MINIMUM CIRCUIT AMPACITY
M	ME	MECHANICAL ENGINEER
M	MEAS	MEASURE
M	MECH	MECHANICAL
M	MECH RM	MECHANICAL ROOM
M	MER	MECHANICAL EQUIPMENT ROOM
M	MERV	MINIMUM EFFICIENCY REPORTING VALUE
M	MEZZ	MEZZANINE
M	MFG	MANUFACTURING
M	MFR	MANUFACTURER
M	MFR REC	MANUFACTURER'S RECOMMENDATION
M	MH	MANHOLE
M	MIN	MINIMUM
M	MISC	MISCELLANEOUS
M	MM	MILLIMETER
M	MTD	MOUNTED
M	MTG	MOUNTING
M	MVD	MANUAL VOLUME DAMPER
N		
N	NA	NOT APPLICABLE
N	NATL	NATIONAL
N	NC	NOISE CRITERIA
N	NC	NORMALLY CLOSED
N	NE	NORTH EAST
N	NEC	NATIONAL ELECTRICAL CODE
N	NEG	NEGATIVE
N	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N	NO	NORMALLY OPEN
N	NOM	NOMINAL
N	NPSH	NET POSITIVE SUCTION HEAD
N	NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
N	NS	NARROW STILE
N	NTS	NOT TO SCALE
N	NW	NORTH WEST
O		
O	OA/OSA	OUTSIDE AIR
O	OAI	OUTSIDE AIR INTAKE
O	OBD	OPPOSED BLADE DAMPER
O	OD	OUTSIDE DIAMETER OR OUTSIDE DIMENSION
O	OV	OXYGEN VACUUM
P		
P	P	PUMP
P	PA	PASCAL
P	PC	PUMPED CONDENSATE
P	PD	PRESSURE DROP
P	PF	PENETRATE
P	PFHX	PLATE AND FRAME HET EXCHANGER
P	PG	PENDANT
P	PLBG	PLUMBING
P	PNEU	PNEUMATIC
P	PRESS	PRESSURE
P	PRV	PRESSURE REGULATING VALVE
P	PSF	POUNDS PER SQUARE FOOT
P	PSI	POUNDS PER SQUARE INCH
P	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
P	PSIG	POUNDS PER SQUARE INCH - GAUGE
R		
R	RA	RETURN AIR
R	RAT	RETURN AIR TEMPERATURE
R	RD	REFRIGERANT DISCHARGE
R	RET	RETURN
R	RG	RETURN GRILLE
R	RH	RELATIVE HUMIDITY
R	RLA	RUN LOAD AMPERE
R	RP	RADIANT CEILING PANEL
R	RPM	REVOLUTIONS PER MINUTE
S		
S	SA	SUPPLY AIR
S	SAD	SUPPLY AIR DIFFUSER
S	SAG	SUPPLY AIR GRILLE
S	SAR	SUPPLY AIR REGISTER
S	SAT	SUPPLY AIR TEMPERATURE
S	SD	SMOKE DETECTOR
S	SDPR	SMOKE DAMPER
S	SE	SOUTH EAST
S	SENS	SENSIBLE HEAT
S	SF	SQUARE FOOT (FEET)
S	SF	SUPPLY FAN
S	SP	STATIC PRESSURE
S	SP GR	SPECIFIC GRAVITY
S	SPEC	SPECIFICATION
S	SPS	STATIC PRESSURE SENSOR
S	SQ	SQUARE
S	SQ FT	SQUARE FOOT (FEET)
S	SQ IN	SQUARE INCH
S	SS	STAINLESS STEEL
S	STHX	SHELL AND TUBE HEAT EXCHANGER
S	STL	STEEL
S	STRUCT	STRUCTURAL
S	SW	SOUTH WEST
S	SWSI	SINGLE WIDTH SINGLE INLET
S	SYS	SYSTEM
T		
T	TAB	TESTING, ADJUSTING, BALANCE
T	TD	TRANSFER DUCT
T	TEMP	TEMPERATURE OR TEMPORARY
T	TF	TRANSFER FAN
T	TG	TRANSFER GRILLE
T	THERM	THERMAL
T	THK	THICKNESS
T	THRU	THROUGH
T	TP	TRAP
T	TSP	TOTAL STATIC PRESSURE
T	TSTAT	THERMOSTAT
T	TU	TERMINAL UNIT
T	TX	TOILET EXHAUST
T	TYP	TYPICAL
U		
U	U.N.O.	UNLESS NOTED OTHERWISE
U	U.O.N.	UNLESS OTHERWISE NOTED
U	UH	UNIT HEATER
U	UP	SET OR TURN UP
V		
V	V	VALVE
V	VAV	VARIABLE AIR VOLUME
V	VENT	VENTILATION
V	VERT	VERTICAL
V	VFD	VARIABLE FREQUENCY DRIVE
V	VI	VIBRATION ISOLATOR
V	VP	VELOCITY PRESSURE
V	VSD	VARIABLE SPEED DRIVE
W		
W	WB	WET BULB
W	WMS	WIRE MESH SCREEN

DUCTWORK SYMBOLS



STANDARD BRANCH SUPPLY OR RETURN, HIDDEN LINES

STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)

FLEXIBLE CONNECTION, EQUIPMENT, VIBRATION, OR SEISMIC

VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)

STANDARD RADIUS ELBOW (LONG RADIUS)

NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)

EXISTING DUCT TO REMAIN (INSIDE DIMENSIONS: WIDTH x DEPTH)

EXISTING DUCT TO BE DEMOLISHED (INSIDE DIMENSIONS: WIDTH x DEPTH)

SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)

EXHAUST OR RETURN CEILING REGISTER OR GRILLE

EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)

EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)

VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF INCLINED RISE, IN DIRECTION OF AIR FLOW

INCLINED DROP, IN DIRECTION OF AIR FLOW

MANUAL VOLUME/BALANCING DAMPER (MBD)

MOTORIZED DAMPER WITH ACCESS DOOR

DUCT MOUNTED SMOKE DETECTOR WITH ACCESS DOOR

ACCESS DEVICE - SEE SPECIFICATIONS

COMBINATION FIRE/SMOKE DAMPER

FIRE DAMPER

FLEXIBLE DUCT CONNECTION (EQUIPMENT)

SUPPLY DUCT TURNING UP

RETURN DUCT TURNING UP

EXHAUST DUCT TURNING UP

SUPPLY DUCT TURNING DOWN

RETURN DUCT TURNING DOWN

EXHAUST DUCT TURNING DOWN

ROUND DUCT TURNING UP

ROUND DUCT TURNING DOWN

SUPPLY DIFFUSER (4-WAY)

SUPPLY DIFFUSER (3-WAY)

SUPPLY DIFFUSER (2-WAY, ADJACENT)

SUPPLY DIFFUSER (2-WAY, OPPOSITE)

SUPPLY DIFFUSER (1-WAY)

RETURN/TRANSFER GRILLE

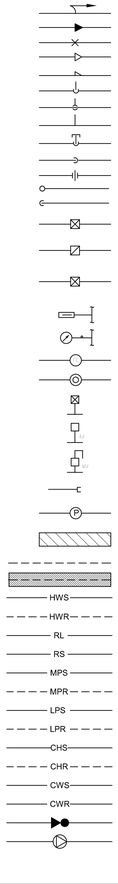
EXHAUST GRILLE

STATIC PRESSURE TRANSMITTER

ACOUSTICALLY LINED DUCT

FLEXIBLE DUCT

GENERAL PIPING SYMBOLS



DIRECTION OF PIPE PITCH (DOWN)

DIRECTION OF FLOW

ANCHOR

REDUCER OR INCREASER

ECCENTRIC REDUCER

TOP CONNECTION, 45° OR 90°

BOTTOM CONNECTION, 45° OR 90°

SIDE CONNECTION

CAPPED OUTLET

RISE OR DROP IN PIPE

UNION

PIPE UP

PIPE DOWN

INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL

FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL

THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES SEE DETAIL

THERMOMETER

PRESSURE GAGE

FLOW ELEMENT

REFRIGERANT SIGHT GLASS

TEST PLUG (PRESSURE/TEMPERATURE)

AUTOMATIC AIR VENT

MANUAL AIR VENT

QUICK-COUPLE HOSE CONNECTOR

DIFFERENTIAL PRESSURE SENSOR

PRESSURE REDUCING STATION

EXISTING PIPING

EXISTING PIPING TO BE DEMOLISHED

HOT WATER HEATING SUPPLY

HOT WATER HEATING RETURN

REFRIGERANT LIQUID LINE

REFRIGERANT SUCTION LINE

MEDIUM PRESSURE STEAM

MEDIUM PRESSURE STEAM CONDENSATE RETURN

LOW PRESSURE STEAM (15 PSIG AND BELOW)

LOW PRESSURE STEAM CONDENSATE RETURN

CHILLED WATER SUPPLY

CHILLED WATER RETURN

CONDENSER WATER SUPPLY

CONDENSER WATER RETURN

PUMPED CONDENSATE

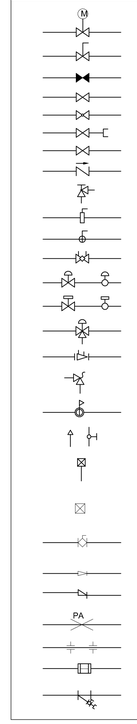
PUMP

CONTRACTOR COORDINATION

THE GENERAL CONTRACTOR SHALL TAKE THE LEAD IN PREPARING COORDINATION DRAWINGS. SUCH DRAWINGS SHALL BE ARRANGED AND DESIGNED THROUGH AND FROM COORDINATION WITH ALL OTHER MAJOR AND MINOR SUBCONTRACTORS. PROVIDE PLAN VIEWS, SECTIONS, AND ELEVATIONS AS REQUIRED TO FULLY COORDINATE ALL NEW WORK, DRAW TO SCALE (AT NOT LESS THAN 3/8"=1'0"). DRAWINGS SHALL SHOW, BUT NOT BE LIMITED TO: ALL WALL RATINGS, DUCTWORK, AIR DISTRIBUTION, MECHANICAL EQUIPMENT, MECHANICAL PIPING, FIRE PROTECTION PIPING, PLUMBING PIPING, CABLE TRAYS, LIGHTING FIXTURES, CEILING GRID, CEILING HEIGHT, MAJOR BEAMS AND JOISTS (WITH ELEVATIONS MARKED), FIRE, SAFETY, AND SECURITY ALARM DEVICES (WHERE CEILING MOUNTED), ELECTRICAL CONDUITS LARGER THAN 2 INCH DIAMETER, ELECTRICAL BUSWAY AND REQUIRED CLEARANCES, AND ANY EQUIPMENT PROVIDED BY OTHERS THAT PROTRUDE INTO THE CEILING CAVITIES OR IMPEDE THE LOCATION OR ACCESS TO ABOVE CEILING PIPING, DUCTWORK, OR OTHER EQUIPMENT. SECTIONS SHALL BE CUT THROUGH AREAS SHOWING MATERIALS AND SYSTEMS OF ALL CONTRACTS, IT IS IMPORTANT TO NOTE THAT FABRICATION CANNOT BEGIN UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED.

THE CONTRACTOR SHALL OBTAIN A COPY OF THE FINAL SITE LATEST VENDOR DRAWINGS PRIOR TO PROCURING OR INSTALLING ANY EQUIPMENT. ANY REWORK REQUIRED BY THE CONTRACTOR'S FAILURE TO OBTAIN THESE DRAWINGS SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL NOT RESULT IN ANY ADDITIONAL TIME TO THE PROJECT. THE CONTRACTOR SHALL MEET THE REPRESENTATIVE OF THE VENDOR PRIOR TO THE START OF WORK. ALL WORK SHALL COMPLY WITH ALL VENDOR REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN ON THESE DRAWINGS AND ALL WORK SHOWN ON THE VENDOR DRAWINGS. THE PHRASE "SUPPLIED BY CUSTOMER" (OR DERIVATIVES) MEANS "PROVIDED BY CONTRACTOR."

VALVE SYMBOLS



MOTORIZED SHUT-OFF VALVE

BALANCING VALVE

SHUT-OFF VALVE - NORMALLY CLOSED

SHUT-OFF VALVE - SEE SPECIFICATIONS

GLOBE VALVE

GATE VALVE WITH 3/4 " HOSE ADAPTER

GATE VALVE

CHECK VALVE

ANGLE GLOBE VALVE

BUTTERFLY VALVE

BALL VALVE

CIRCUIT SETTER

STRAIGHT-THRU MODULATING CONTROL VALVE

STRAIGHT-THRU TWO POSITION CONTROL VALVE

THREE-WAY MODULATING CONTROL VALVE

AUTOMATIC FLOW CONTROL VALVE

SAFETY OR PRESSURE RELIEF VALVE

PRESSURE REDUCING VALVE

MANUAL AIR VENT

TEST PLUG (PRESSURE/TEMPERATURE)

STEAM TRAP (MEDIUM/HIGH PRESSURE)

CIRCUIT SETTER (METERING AND BALANCING)

CONCENTRIC REDUCER

ECCENTRIC REDUCER

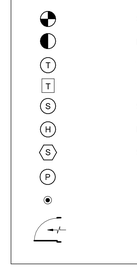
PIPE ANCHOR

PIPE GUIDES

FLEXIBLE CONNECTION

WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)

MECHANICAL SYMBOLS



CONNECT TO EXISTING

POINT OF DISCONNECT

THERMOSTAT

TEMPERATURE SENSOR (DUCT MOUNTED)

SWITCH

HUMIDITY SENSOR

SMOKE DETECTOR

DIFFERENTIAL PRESSURE MONITOR

DIFFERENTIAL PRESSURE SENSOR

DOOR UNDERCUT

GENERAL NOTES

1. COORDINATE ALL WORK WITH OTHER TRADES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES, PERMITS AND LICENSES FOR THE COMPLETE INSTALLATION OF THEIR WORK.
3. ALL DUCTWORK RUNS SHOWN ARE REPRESENTATIVE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDITIONS IN THE FIELD (EXISTING, OR PREDICATED BY LOCATION OF NEW EQUIPMENT) THAT MAKE NECESSARY ALTERNATE ROUTING OF DUCTWORK.
4. ALL PIPING RUNS SHOWN ARE REPRESENTATIVE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDITIONS IN THE FIELD THAT MAKE NECESSARY ALTERNATE ROUTING OF PIPING.
5. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTORS TO PROVIDING POWER CONNECTIONS AND DDC CONTROLS FOR ALL EQUIPMENT.
6. ALL DIFFUSERS NOT SHOWN AS A FULL CEILING MODULE (24"X24") SHALL BE A MINIMUM OF 12"X12".
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY ARCHITECTURAL WORK (INCLUDING, BUT NOT LIMITED TO: FLOORING, CEILING TILE AND GRID, SMOKE PARTITIONS ABOVE CEILING, GYPSUM WALL BOARD AND PAINTING, PLASTER, ETC.) THAT IS DAMAGED, DISTURBED, OR REMOVED INCIDENTAL TO THIS WORK.
8. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING.
9. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
10. ACCESS PANELS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. THAT ARE LOCATED ABOVE HARD CEILINGS OR BEHIND WALLS. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
11. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
12. FOR TYPICAL WATER PIPING CONNECTIONS TO EQUIPMENT SEE STANDARD EQUIPMENT DETAILS.
13. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
14. PROVIDE INSULATED SUPPLY DIFFUSERS AND GRILLES.
15. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
16. PROVIDE NEW DDC SYSTEM TO ACCOUNT FOR NEW ROOMS, AND VAV TERMINAL UNITS. PRIOR TO CONTROLS PROGRAMMING, MECHANICAL CONTRACTOR SHALL PROVIDE TO CONTROLS VENDOR THE ACTUAL ROOM NUMBERS, AS DETERMINED BY THE ARCHITECT AND OWNER. NEW DDC SYSTEM SHALL BE INTEGRATED WITH THE EXISTING SYSTEM IN THE MAIN HOSPITAL.
17. MECHANICAL CONTRACTOR SHALL ENSURE THAT THE FLEXIBLE DUCTWORK IS FREE OF BENDS THAT WOULD RESTRICT AIRFLOW. PROVIDE HANGERS AND SUPPORTS TO ENSURE BENDS ARE SMOOTH RADIUS.
18. WHERE CONFLICTS WITH OTHER UTILITIES OR CONSTRUCTION OCCUR, CONTRACTOR SHALL PROVIDE DUCT TRANSITIONS (AND CHANGES IN DIMENSIONS) PER SMACNA GUIDELINES AS REQUIRED TO AVOID CONFLICT. DUCT OF DIFFERING SIZE TO THAT SHOWN ON PLANS SHALL HAVE A HYDRAULIC AREA EQUAL TO THE DUCT SIZE LISTED ON PLANS.
19. ALL AIR DISTRIBUTION DEVICES SHALL BE PROVIDED WITH MANUAL VOLUME DAMPERS FOR BALANCING PURPOSES. SEE DETAILS AND SPECIFICATIONS FOR MORE REQUIREMENTS, WHETHER SHOWN ON THE DRAWINGS OR NOT.

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PROJECT NUMBER: 3024096.00 HDG PROJECT NUMBER: 24109

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SOUTH CAROLINA HARRELL DESIGN GROUP, PC No. 1202713 CERTIFICATE OF AUTHORIZATION

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 39705 ZACHARY, MARC LOYACONO

Digitally signed by Zachary Marc Loyacono
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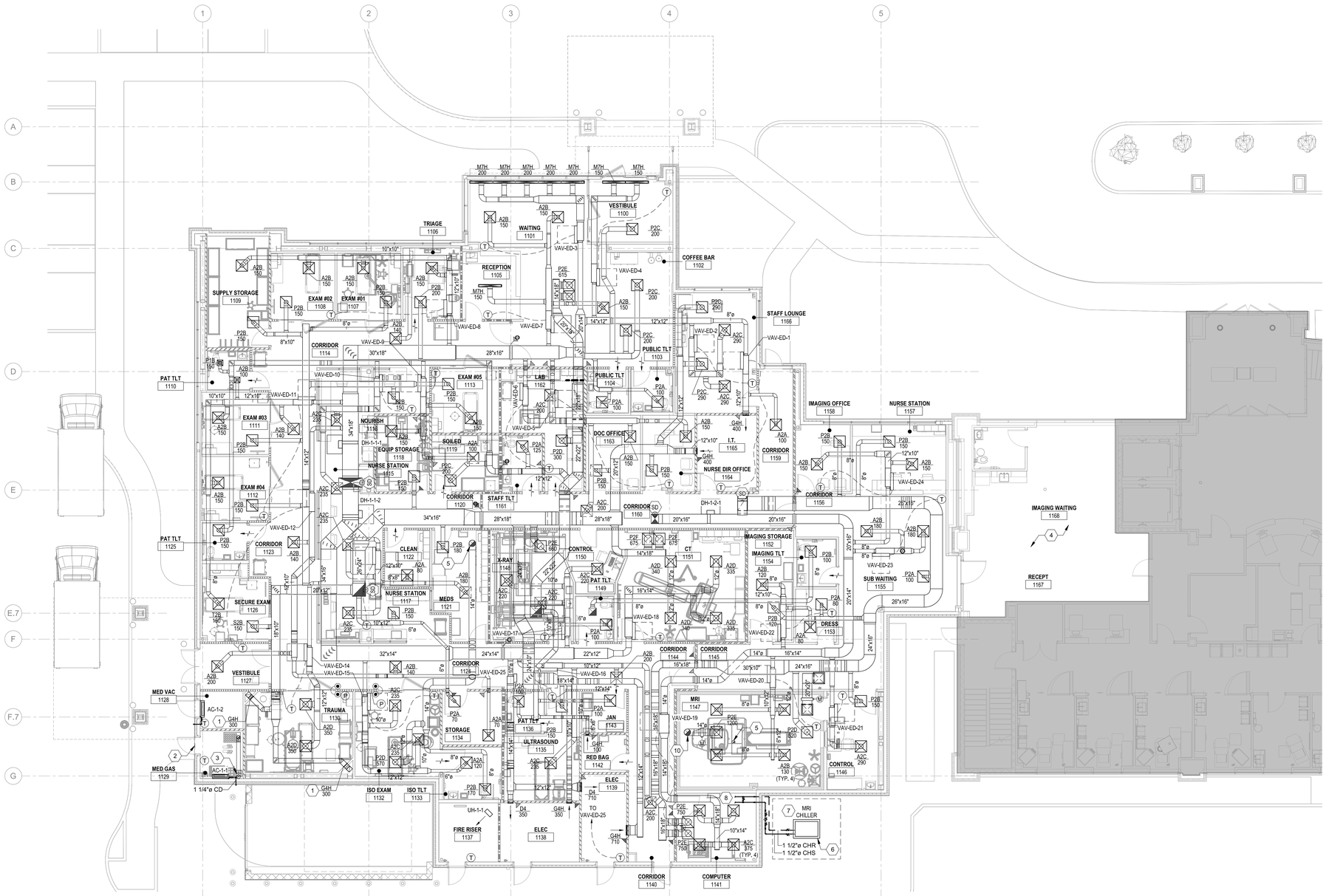
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M0.01

GENERAL NOTES & LEGENDS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL ARCHITECTURAL PLOT SHEETS



1 **MECHANICAL DUCTWORK PLAN - LEVEL 1**
1/8" = 1'-0"
0 4' 8' 16'

GENERAL NOTES

A. EACH TERMINAL BOX SHALL BE PROVIDED WITH A THERMOSTAT MOUNTED AT 54" A.F.F.

B. PROVIDE ALL RUNOUTS TO DIFFUSERS AND GRILLES WITH A MANUAL VOLUME DAMPER. WHERE VOLUME DAMPERS ARE LOCATED ABOVE A HARD CEILING, PROVIDE EITHER AN ACCESS PANEL OR A REMOTE OPERATED VOLUME DAMPER. COORDINATE CEILING TYPES AND LOCATIONS WITH ARCHITECTURAL.

SHEET KEYNOTES (#)

1. 10"x10" GRILLE MOUNTED 12" A.F.F.
2. PROVIDE 30"x12" INTAKE LOUVER INSTALLED ABOVE DOOR FOR MAKE UP AIR. LOUVER SHALL BE BASED ON GREENHECK EVH-501D OR EQUIVALENT AND HAVE A MINIMUM FREE AREA 0.81 SQUARE FEET.
3. PROVIDE A LOW WALL EXHAUST INTAKE 12" A.F.F.
4. PROVIDE NEW CEILING SUPPLY DIFFUSERS, FLEXIBLE DUCT, AND RETURN GRILLES IN RENOVATED WAITING AREA. EXISTING TERMINAL BOX "VAV-11" AND LOW PRESSURE DUCTWORK TO REMAIN IN PLACE. REBALANCE EXISTING TO REMAIN TERMINAL BOX FOR NEW AIRFLOW.
5. MRI QUENCH VENT UP TO ROOF. REFER TO M1.02 FOR CONTINUATION AND COORDINATE POINT OF CONNECTION TO MRI WITH EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. QUENCH VENT SHALL BE MANUFACTURED OF 304 STAINLESS STEEL.
6. MRI CHILLER WITH 4" THICK EQUIPMENT PAD, PAD SHALL HAVE CHAMFERED EDGES THAT EXTEND 4" FROM THE BASE OF THE EQUIPMENT ON ALL SIDES AND SHALL BE REINFORCED WITH #5 REBAR. MRI SHALL BE SPECIFIED AND PROVIDED BY MRI VENDOR AND IS SHOWN FOR REFERENCE ONLY.
7. COORDINATE EXACT LOCATION OF NEW MRI CHILLER WITH VENDOR. PIPING SHOWN IS DIAGRAMATIC AND EXACT CONNECTION LOCATIONS SHALL BE COORDINATED WITH MANUFACTURER'S INSTALLATION SPECIFICATIONS AND INSTRUCTIONS. PROVIDE MRI CHILLED WATER SUPPLY AND RETURN PIPING WITH HEAT TRACE. BASIS OF DESIGN THERMON FP PARALELL RESISTENCE HEATING CABLE OR EQUIVALENT. HEAT TRACE SHALL BE 120V AND 10 WATTS/FT. REFER TO ELECTRICAL SHEETS FOR CIRCUITING INFORMATION.
8. CHILLED WATER SUPPLY AND RETURN TO INTEGRATED COOLING CABINET, COORDINATE EXACT CONNECTION LOCATIONS WITH MANUFACTURER'S INSTALLATION SPECIFICATIONS AND INSTRUCTIONS.
9. 14"Ø EXHAUST AIR DUCT UP TO EF-ISO ON ROOF ABOVE, REFER TO SHEET M1.02 FOR CONTINUATION.
10. 14"Ø EXHAUST AIR DUCT UP TO EF-PURGE ON ROOF ABOVE, REFER TO SHEET M1.02 FOR CONTINUATION.

WALL RATING LEGEND

- SMOKE PARTITION
- 1 HR FIRE BARRIER
- 1 HR FIRE / SMOKE BARRIER
- 2 HR FIRE BARRIER
- 2 HR FIRE / SMOKE BARRIER
- 3 HR FIRE BARRIER
- 3 HR FIRE / SMOKE BARRIER
- 4 HR FIRE BARRIER
- 4 HR FIRE / SMOKE BARRIER
- FIRE RATED DOOR

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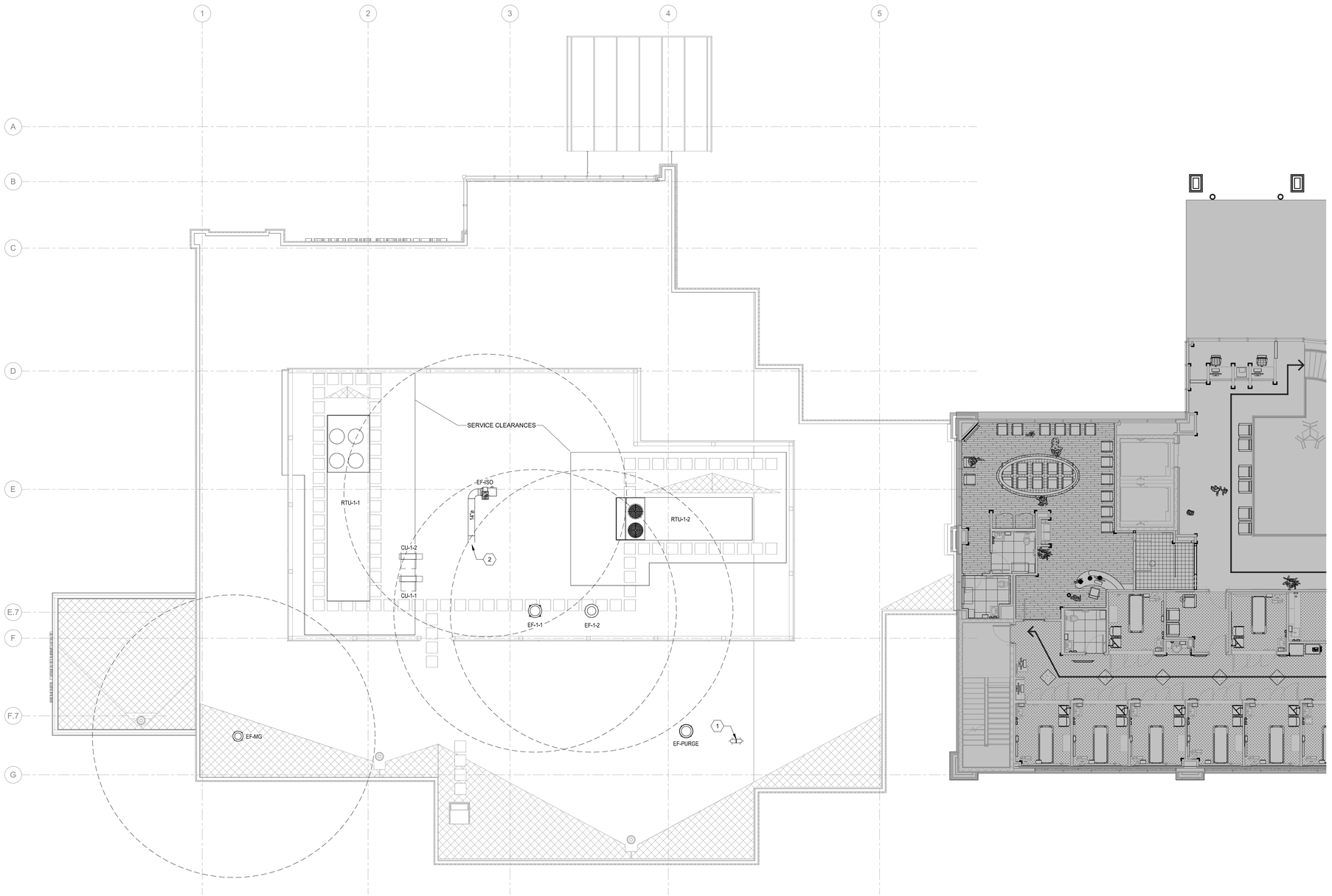
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MECHANICAL DUCTWORK PLAN - LEVEL 1

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PLOT SIZE



1 MECHANICAL ROOF PLAN

1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES

A. ROUTE RTU CONDENSATE DRAINS TO NEAREST ROOF DRAIN. PROVIDE PIPE SUPPORT ON DRAIN EVERY 4' AND SLOOP DRAIN AT 1/4" PER FOOT.

B. RTU CONDENSATE DRAINS SHALL BE A MINIMUM OF 1-1/4" IN DIAMETER AND BE "TYPE L" COPPER WITH SOLDERED JOINTS.

SHEET KEYNOTES (#)

1. MRI QUENCH VENT UP FROM BELOW, TERMINATE VENT 40" ABOVE ROOF WITH GOOSENECK AND 1/4" WIRE MESH SCREEN.
2. 14"Ø ISOLATION EXHASUT DUCT UP FROM BELOW.

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ZACHARY MARC LOYACONO

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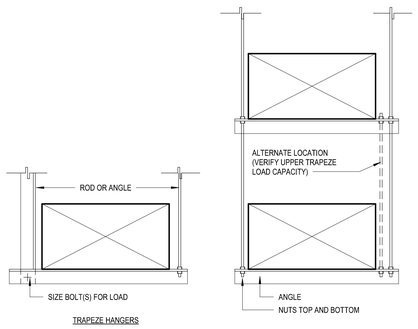
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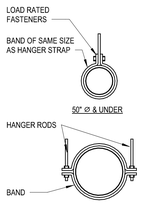
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MECHANICAL ROOF PLAN

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOT SHEETS



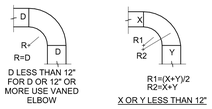
TRAPEZE HANGERS



HANGER STRAPS OR RODS FOR ROUND DUCT			
MAX. DUCT Ø IN	QUANTITY/SIZE IN	MAX. LOAD LBS	MAX. SPACING IN
26	ONE 1 x 22 GA STRAP	260	144
36	ONE 1 x 18 GA STRAP	420	144
50	ONE 1 x 16 GA STRAP	700	144
60	TWO 3/8 Ø RODS	1320	144
84	TWO 1/2 Ø RODS	2500	144

NOTE:
1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.
2. WIRE HANGERS ARE PROHIBITED.

13 DUCT HANGERS
NOT TO SCALE



D LESS THAN 12" FOR D OR 12" OR MORE USE VANED ELBOW

R1=(X+Y)/2
R2=X+Y

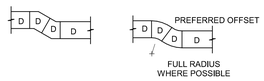
X OR Y LESS THAN 12"

90° RADIUS ELBOWS

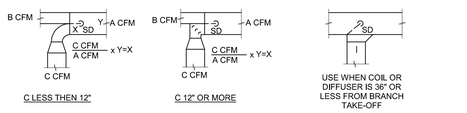


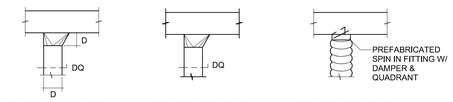
X OR W LESS THAN 12"

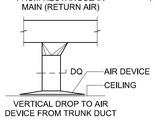
90° TEES



OFFSETS

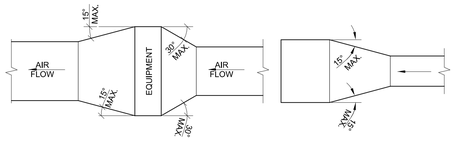






BRANCH TAKE-OFFS

14 LOW PRESSURE DUCT FITTINGS
NOT TO SCALE

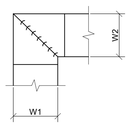


TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT PLAN OR SIDE VIEW

TYPICAL DUCTWORK TRANSITION PLAN OR SIDE VIEW

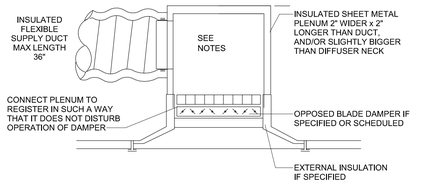
NOTES:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

9 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCTS)
NOT TO SCALE



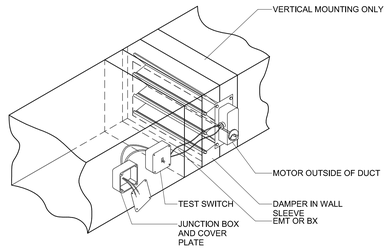
NOTES:
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" [50mm] RADIUS, 1 1/2" [40mm] MAXIMUM SPACE BETWEEN VANES AND A 3/4" [20mm] TRAILING EDGE.
4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" [500mm] VANES SHALL BE DOUBLE VANE TYPE.

10 DUCTWORK SQUARE VANE ELBOWS
NOT TO SCALE



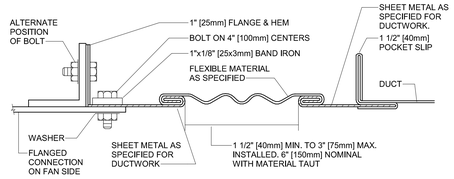
NOTES:
1. INSULATION REQUIRED ON SUPPLY ONLY.
2. INLET PLENUM HEIGHT SHALL BE AS REQUIRED BY INLET DUCT & FIELD CONDITIONS (GENERALLY 2" HIGHER THAN INLET DUCT Ø, BUT HIGHER IF REQUIRED, BY LIGHTS, ETC.)

11 LIMITED CLEARANCE DIFFUSER DUCTING
NOT TO SCALE

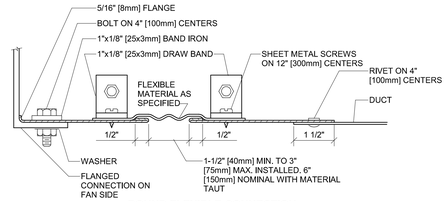


NOTES:
1. ALL MOTORS SHALL BE 115V, 60Hz, FACTORY-MOUNTED, UL APPROVED.
2. ALL ELECTRICAL CONNECTIONS MUST COMPLY WITH THE LOCAL CODE REQUIREMENT.
3. MOTOR SHALL BE FIELD REPLACEABLE WITHOUT DISTURBING PULLEY-CABLE DAMPER SYSTEM.
4. MOTORS SHALL BE WIRED THROUGH EMT OR GREENFIELD TO A STANDARD JUNCTION BOX LOCATED ON THE OUTSIDE OF THE DUCT.
5. FIELD WIRE AND INSTALL AS REQUIRED. PROVIDE TEST SWITCH AND PERFORM OPERATING TEST AFTER INSTALLATION.
6. MOTOR SHALL BE LOCATED TO PROVIDE ACCESS FOR MAINTENANCE.
7. PROVIDE ACCESS DOOR IN DUCTWORK IN ACCESSIBLE LOCATION TO MAINTAIN DAMPER.

12 DYNAMIC COMBINATION FIRE/ SMOKE DAMPER
NOT TO SCALE

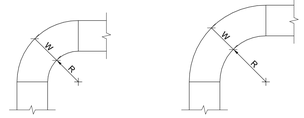


RECTANGULAR FLEXIBLE CONNECTION



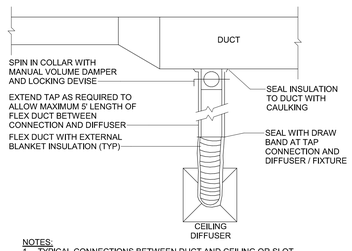
ROUND FLEXIBLE CONNECTION

5 FLEXIBLE DUCT CONNECTIONS
NOT TO SCALE



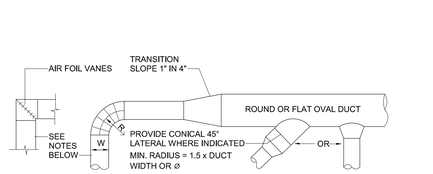
NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS, ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

6 DUCTWORK RADIUS ELBOWS
NOT TO SCALE



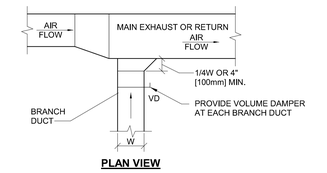
NOTES:
1. TYPICAL CONNECTIONS BETWEEN DUCT AND CEILING OR SLOT DIFFUSERS AND SINGLE OR DOUBLE SIDED SADDLE BOOT LIGHT FIXTURES AS SHOWN ON PLAN OR INDICATED IN SCHEDULE.
2. ONLY ONE 90° TURN ALLOWED IN FLEX DUCT WITH TURN R/D > 1.0; DUCT MUST BE PROPERLY SUPPORTED TO PREVENT KINKING.

7 TYPICAL DIFFUSER RUNOUT DETAIL
NOT TO SCALE



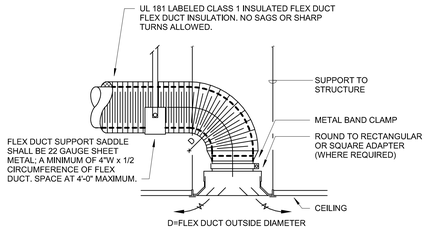
NOTES:
1. NO BALANCING DAMPER IN MED & HIGH PRESSURE DUCTS.
2. PROVIDE RADIUS ELBOW IN ROUND AND RECTANGULAR DUCTS IN ALL LOCATIONS WHERE SPACE ALLOWS.
3. RADIUS ELBOWS SHALL BE 5-PIECE, MINIMUM, OR FORMED ELBOWS, W/O CRIMPING.
4. WHERE SPACE DOES NOT ALLOW FOR RADIUS ELBOWS, PROVIDE SQUARE ELBOWS WITH AIRFOIL TURNING VANES AS DETAILED.

8 MEDIUM AND HIGH PRESSURE DUCT FITTINGS
NOT TO SCALE

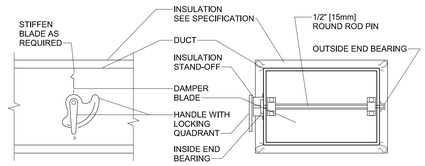


PLAN VIEW

1 EXHAUST OR RETURN BRANCH DUCTWORK
NOT TO SCALE



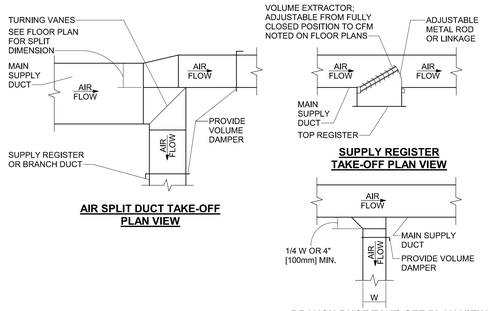
2 PREFERRED DIFFUSER DUCTING
12" = 1'-0"



SIDE ELEVATION **SECTION**

NOTES:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

3 VOLUME DAMPER DETAIL
NOT TO SCALE



AIR SPLIT DUCT TAKE-OFF PLAN VIEW

SUPPLY REGISTER TAKE-OFF PLAN VIEW

BRANCH DUCT TAKE-OFF PLAN VIEW

4 SUPPLY DUCTWORK TAKE-OFFS
NOT TO SCALE

ENVIRONMENTS FOR HEALTH ARCHITECTURE
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501 Elm St, Ste 500, Dallas, TX 75202
888.781.8441 817.226.1917 e4harchitecture.com

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CMC CONWAY MEDICAL CENTER with Novant Health

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CMC Socastee FSED
6016 HIGHWAY 707
MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00 HDG PROJECT NUMBER: 24109

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

HARRELL DESIGN GROUP, PC No. 020713 CERTIFICATE OF AUTHORIZATION NORTH CAROLINA

DIGITAL SIGNATURE NOT VALID UNLESS CERTIFICATE IS VISIBLE BELOW SEAL

REGISTERED PROFESSIONAL ENGINEER No. 39705 NORTH CAROLINA ZACHARY MARC LOYACONO

Digitally signed by Zachary Marc Loyacono
Date: 2025.07.14 15:40:14-04'00'

ORIG SUBMISSION: 07.03.2025

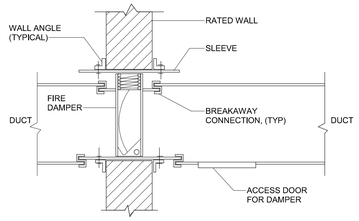
CURRENT:

SHEET TITLE AND NUMBER:

M5.01

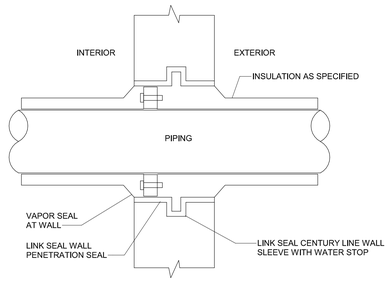
DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOT SHEETS

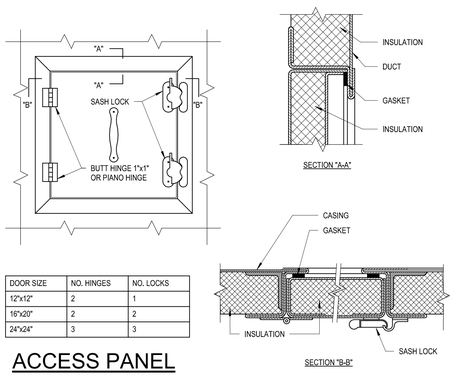


NOTE:
FIRE DAMPER SHALL BE RUSKIN TYPE DIBD2, STYLE 'B' CURTAIN TYPE DYNAMIC FIRE DAMPER OR EQUAL, 1-1/2 HOUR RATING, UL 555 CLASSIFIED, INSTALLED IN ACCORDANCE WITH NFPA STANDARD 90A, SMACNA INSTALLATION GUIDE "FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS", AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. ACCESS DOOR SHALL BE RUSKIN MODEL ADC22 LOCATED ON ACCESSIBLE CEILING SIDE OF WALL. IF ACCESSIBLE CEILING IS NOT AVAILABLE, THE MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS DOOR IN CEILING (OR WALL) TO MATCH FINISH COLOR. DAMPER SHALL BE EQUIPPED FOR HORIZONTAL OR VERTICAL MOUNTING AS REQUIRED. WHERE ROUND DUCTS REQUIRE A DAMPER, AN ENCLOSURE WITH ROUND DUCT CONNECTION WILL BE REQUIRED WITH TYPE 'B' DAMPER INSIDE. ALL MODELS ARE RUSKIN (OR APPROVED EQUAL).

7 LOW PRESSURE FIRE DAMPER
NOT TO SCALE



4 PIPE PENETRATION OF EXTERIOR WALLS (LINK SEAL)
NOT TO SCALE

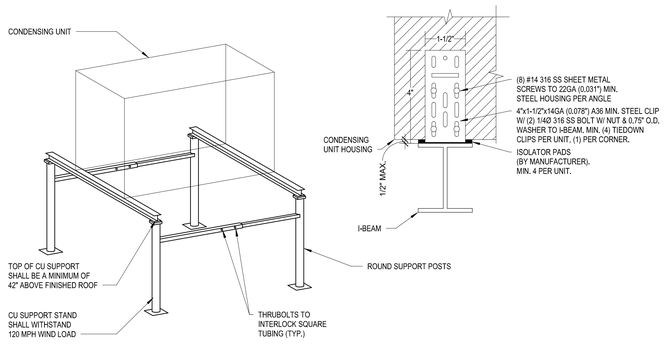


DOOR SIZE	NO. HINGES	NO. LOCKS
12"x12"	2	1
16"x20"	2	2
24"x24"	3	3

ACCESS PANEL

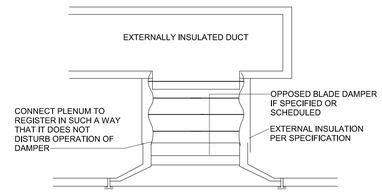
NOTES:
1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.

5 ACCESS PANEL DETAIL
NOT TO SCALE

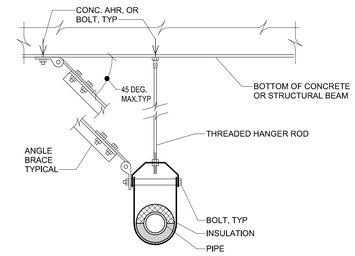


6 CONDENSING UNIT STAND DETAIL
NOT TO SCALE

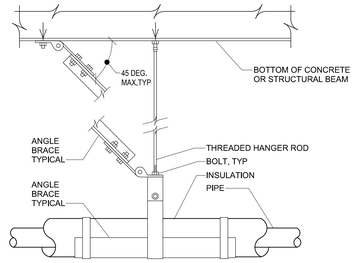
NOTE:
MAXIMUM DUCT VELOCITY = 1200 FPM



1 DIFFUSER/REGISTER BOTTOM TAP
NOT TO SCALE



TRANSVERSE BRACE DETAIL

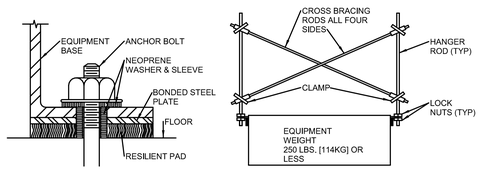


LONGITUDINAL BRACE DETAIL

NOTES:

A. DETAILS SHOWN ARE FOR PIPE BRACING, OTHER EQUIPMENT BRACING SHALL BE SIMILAR.
B. BRACE SIZES, SPACINGS, LOCATIONS, AND ATTACHMENTS SHALL BE AS SPECIFIED. BRACES SHALL BE FULLY COORDINATED WITH STRUCTURAL FRAMING AND WITH ALL OTHER BUILDING MATERIALS AND SERVICES.
C. TRANSVERSE AND LONGITUDINAL BRACES MAY BE COMBINED WHERE REQUIRED TO RESIST MOTIONS IN BOTH DIRECTIONS AT THE SAME TIME.
D. INSTALL ROLLER TYPE HANGERS FOR STEAM PIPING. SEE PIPE HANGERS DETAIL.

2 SEISMIC BRACING DETAIL
NOT TO SCALE



FLOOR MOUNT EQUIPMENT RESTRAINED BY RESILIENT PADS (TYPE DS)

SEISMIC BRACING FOR LIGHT SUSPENDED EQUIPMENT

NOTE:
NOT REQUIRED FOR AIR TERMINAL UNITS.

3 SEISMIC BRACING FOR EQUIPMENT
NOT TO SCALE

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
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CONWAY MEDICAL CENTER with Novant Health

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CMC CONWAY MEDICAL CENTER
CMC Socastee FSED
6016 HIGHWAY 707
MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00 HDG PROJECT NUMBER: 24109

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA
HARRELL DESIGN GROUP, PC
No. C02713
CERTIFICATE OF AUTHORIZATION

DIGITAL SIGNATURE NOT VALID UNLESS CERTIFICATE IS VISIBLE BELOW SEAL

COUNCIL FOR PROFESSIONAL ENGINEERS
No. 39705
ZACHARY MARC LOYACONO

Digitally signed by Zachary Marc Loyaconono
Date: 2025.07.14 15:40:31-04'00'

ORIG SUBMISSION: 07.03.2025
CURRENT:

SHEET TITLE AND NUMBER:

M5.02

DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE PERSONAL INCH ON ORIGINAL ANSI A SHEETS

AIR HANDLING UNIT SCHEDULE

UNIT NO.	SERVICE	CFM	OA CFM	ESP (IN. W.G.)		EVAPORATOR				ELECTRICAL												BASIS OF DESIGN								NOTES
				SUPPLY FAN	RETURN FAN	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	V	PH	FREQ	CONDENSER SECTION				COMPRESSOR SECTION				MCA	MOP	EER	IEER	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	MANUFACTURER	MODEL	
													FAN 1 FLA	FAN 2 FLA	FAN 3 FLA	FAN 4 FLA	COMP 1 RLA	COMP 2 RLA	COMP 3 RLA	COMP 4 RLA										
RTU-1-1	EXAM / ADMIN	13,730	3,910	3.0	1.5	340.13	572.74	76.0 / 65.6	50.05 / 50.00	460	3	60	2.1	2.7	2.1	2.7	21.8	24.0	24.0	24.0	149	150	10.5	15.6	394.5	93.5	87.0	8,840.7	TRANE	INTELLIPAK	1-4
RTU-1-2	IMAGING	7,875	1,740	3.5	1.0	201.05	258.72	74.6 / 64.3	50.88 / 50.82	460	3	60	2.1	2.7	-	-	14.5	19.1	19.1	-	76	90	10.1	15.7	289.3	93.5	87.0	6,081.3	TRANE	INTELLIPAK	1-4

NOTES:

1. PROVIDE FACTORY MOUNTED VFD WITH INTEGRAL DISCONNECT IN NEMA 4X ENCLOSURE.
2. PROVIDE MANUFACTURER'S ROOF CURB.
3. ROUTE CONDENSATE TO NEAREST ROOF DRAIN.
4. UNIT SHALL BE EQUIPPED WITH INTERIOR LIGHTING FOR SERVICE. COORDINATE WITH DIVISION 26 FOR CIRCUIT POWER.

HEAT PUMP SPLIT SYSTEM SCHEDULE

INDOOR UNIT									OUTDOOR UNIT												NOTES
UNIT NO.	SERVICE	COOLING (BTU/H)	HEATING (BTU/H @ 47°F)	CFM_{WET} (MIN/MAX)	CFM_{HEAT} (MIN/MAX)	WEIGHT (LBS)	MANUFACTURER	MODEL	UNIT NO.	SEER2	GAS LINE OD (IN)	LIQ. LINE OD (IN)	WEIGHT (LBS)	FAN FLA	COMP RLA	V	PH	MCA	MOCP	MANUFACTURER	MODEL	
AC-1-1	MED GAS 1129	12,000	12,200	134/364	170/406	22	MITSUBISHI	MSZ-HM12NA	CU-1-1	20.0	3/8	1/4	73	0.5	6.2	208	1	9.0	15	MITSUBISHI	MUZ-HM12NA	1-4
AC-1-2	MED VAC 1128	12,000	12,200	134/364	170/406	22	MITSUBISHI	MSZ-HM12NA	CU-1-2	20.0	3/8	1/4	73	0.5	6.2	208	1	9.0	15	MITSUBISHI	MUZ-HM12NA	1-4

NOTES:

1. INDOOR UNIT SHALL BE POWERED FROM THE OUTDOOR UNIT.
2. PROVIDE UNIT WITH CONDENSATE PUMP AND RESERVOIR, MANUFACTURER PART NUMBER X87-721.
3. PROVIDE UNIT WITH WATER-LEVEL SENSING DEVICE IN CONDENSATE DRAIN THAT WILL DE-ENERGIZE EQUIPMENT IN THE EVENT OF CONDENSATE ACCUMULATION, DEVICE SHALL CONFORM TO REQUIREMENTS PER SOUTH CAROLINA MECHANICAL CODE SECTION 307.2.3.4.
4. UNIT SHALL BE PROVIDED WITH FUSED DISCONNECT, DIVISION 26 SHALL PROVIDE AND INSTALL DISCONNECT.

FAN SCHEDULE

UNIT NO.	FAN SERVICE	FAN TYPE	DRIVE TYPE	WHEEL TYPE	CFM	ESP (IN. W.G.)	MOTOR RPM	FAN RPM	TIP SPEED	HP	V	PH	HZ	SELECTION BASED ON		NOTES
														MANUFACTURER	MODEL	
EF-1-1	EXAM / ADMIN	DOWNBLAST	DIRECT	-	3,860	1.5	1,560	1,358	7,602	3	460	3	60	GREENHECK	G-200HP-VG	1-5
EF-1-2	IMAGING	DOWNBLAST	DIRECT	-	1,740	1.0	1,725	1,394	5,584	1	460	3	60	GREENHECK	G-140-VG	1-5
EF-ISO	ISOLATION EXAM	UTILITY SET	DIRECT	-	570	0.5	1,770	1,464	4,284	1/4	460	3	60	GREENHECK	USF-6	1-6
EF-MG	MEDICAL GAS	DOWNBLAST	DIRECT	-	500	0.5	1,725	1,586	4,517	1/10	120	1	60	GREENHECK	G-090-VG	1-5
EF-PURGE	MRI EMERGENCY PURGE	UPBLAST	DIRECT	-	1,200	0.5	1,140	1,140	4,365	1/4	120	1	60	GREENHECK	CUE-140-B	1-5, 7

NOTES:

1. PROVIDE WITH BACKDRAFT DAMPER, MOTOR GUARD, VFD AND DISCONNECT SWITCH. VFD AND DISCONNECT PROVIDED BY MANUFACTURER. DISCONNECT SWITCH SHALL BE INSTALLED BY DIVISION 26.
2. PROVIDE WITH VIBRATION ISOLATORS.
3. PROVIDE WITH THERMAL OVERLOAD PROTECTION. FINAL CONNECTIONS BY DIVISION 26.
4. FAN SHALL BE SEISMIC RATED.
5. FAN SHALL BE HIGH WIND RATED.
6. PROVIDE FAN WITH DUCTED DISCHARGE FOR HIGH PLUME DISCHARGE.
7. PROVIDE FAN WITH MANUAL PUSH START SWITCH AND RELAY LOCATED AT CONTROLLER'S WORKSTATION. PUSH BUTTON SHALL BE MUSHROOM TYPE AND COLORED RED.

UNIT HEATER SCHEDULE

UNIT NO.	SERVICE	TYPE	CAPACITY (kW)	CFM	RPM	HP	ΔT (°F)	WEIGHT (LBS)	V	PH	HZ	AMPS	SELECTION BASED ON		NOTES
													MANUFACTURER	MODEL	
UH-1-1	RISER ROOM	CABINET	10	850	1,725	1/4	38	110	208	3	60	30	INDEECO	ULTRA SAFE EXP	1-3

NOTES:

1. UNIT SHALL BE SUSPENDED FROM WALL IN RISER ROOM. UNIT SHALL BE MOUNTED NOT LESS THAN 12" OFF OF WALL PER MANUFACTURER'S INSTALLATION INSTRUCTION.
2. PROVIDE UNIT WITH MANUFACTURER'S CORROSION RESISTANT WALL MOUNTING KIT.
3. PROVIDE UNIT WITH THERMOSTAT MOUNTED 54" A.F.F. AND ON AN INTERIOR WALL.

DUCT HEATER SCHEDULE

UNIT NO.	SERVICE	TYPE	CAPACITY (kW)	DUCT SIZE (IN x IN)	ΔT (°F)	V	PH	HZ	AMPS	SELECTION BASED ON		NOTES
										MANUFACTURER	MODEL	
DH-1-1-1	RTU-1-1	DUCT MOUNTED	35	34 x 18	15	480	3	60	42.0	GREENHECK	IDHE-O	1-2
DH-1-1-2	RTU-1-1	DUCT MOUNTED	35	34 x 16	15	480	3	60	42.0	GREENHECK	IDHE-O	1-2
DH-1-2-1	RTU-1-2	DUCT MOUNTED	40	30 x 12	15	480	3	60	48.1	GREENHECK	IDHE-O	1-2

NOTES:

1. PROVIDE UNIT WITH MANUFACTURER'S SCR CONTROLLER AND DISCONNECT SWITCH. DISCONNECT SWITCH SHALL BE INSTALLED BY DIVISION 26.
2. UNIT SHALL BE INTEGRATED INTO BUILDING CONTROLS AND STAGED ON/OFF BASED ON THE AHU SUPPLY AIR TEMPERATURE. REFER TO M7.01.

VAV/CAV AIR TERMINAL UNIT SCHEDULE (ELECTRIC)

MARK	INLET SIZE (IN)	FLOW DATA			ELECTRICAL DATA			BASIS OF DESIGN		NOTES
		MAXIMUM AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	HEATING AIR FLOW (CFM)	CAPACITY (kW)	VOLTAGE	PHASE	MODEL	MANUFACURER	
VAV-ED-1	8"	500	500	500	5.0	277	1	DESV	TITUS	1, 2
VAV-ED-2	8"	580	580	580	6.0	277	1	DESV	TITUS	1, 2
VAV-ED-3	10"	1270	1270	1270	12.5	480	3	DESV	TITUS	1, 2
VAV-ED-4	8"	200	200	200	2.0	277	1	DESV	TITUS	1, 2
VAV-ED-5	8"	300	300	300	3.0	277	1	DESV	TITUS	1, 2
VAV-ED-6	8"	200	200	200	2.0	277	1	DESV	TITUS	1, 2
VAV-ED-7	8"	550	550	550	5.5	277	1	DESV	TITUS	1, 2
VAV-ED-8	8"	600	600	600	6.0	277	1	DESV	TITUS	1, 2
VAV-ED-9	8"	330	330	330	3.5	277	1	DESV	TITUS	1, 2
VAV-ED-10	8"	350	350	350	3.5	277	1	DESV	TITUS	1, 2
VAV-ED-11	8"	450	450	450	4.5	277	1	DESV	TITUS	1, 2
VAV-ED-12	8"	220	220	220	2.5	277	1	DESV	TITUS	1, 2
VAV-ED-13	8"	360	360	360	3.5	277	1	DESV	TITUS	1, 2
VAV-ED-14	8"	700	700	700	7.0	277	1	DESV	TITUS	1, 2
VAV-ED-15	8"	590	590	590	6.0	277	1	DESV	TITUS	1, 2
VAV-ED-16	8"	635	635	635	6.5	277	1	DESV	TITUS	1, 2
VAV-ED-17	8"	440	440	440	4.5	277	1	DESV	TITUS	1, 2
VAV-ED-18	12"	1350	1350	1350	13.0	480	3	DESV	TITUS	1, 2
VAV-ED-19	14"	1450	1450	1450	14.0	480	3	DESV	TITUS	1, 2
VAV-ED-20	8"	440	440	440	4.5	277	1	DESV	TITUS	1, 2
VAV-ED-21	8"	290	290	290	3.0	277	1	DESV	TITUS	1, 2
VAV-ED-22	8"	200	200	200	2.0	277	1	DESV	TITUS	1, 2
VAV-ED-23	8"	360	360	360	3.5	277	1	DESV	TITUS	1, 2
VAV-ED-24	8"	440	440	440	4.5	277	1	DESV	TITUS	1, 2
VAV-ED-25	10"	1050	1050	0	0.0	120	1	DESV	TITUS	2, 3

NOTES:

1. PROVIDE TERMINAL BOX REHEAT COIL WITH SCR CONTROLLER.
2. PROVIDE TERMINAL BOX WITH DEDICATED TRANSFORMER FOR CONTROL BOX.
3. TERMINAL BOX SHALL BE COOLING ONLY IN LEFT HAND CONFIGURATION.

AIR DISTRIBUTION DEVICE SCHEDULE

DEVICE LETTER	DEVICE TYPE	MANUFACTURER AND MODEL NUMBER	FRAME NUMBER	FRAME SIZE	NECK LETTER	NECK SIZE
A	ARCH. DIFFUSER	NAILOR UNI-RC	1	12x12	A	6"ø
B	BAR GRILLES	NAILOR SERIES 49	2	24x24	B	8"ø
C	CEILING REGISTER	NAILOR 61 DV	3	24x12	C	10"ø
D	SIDEWALL SUPPLY	NAILOR 45 5155H	4	NECK + FRAME	D	12"ø
E	EGGCRATE	NAILOR 61 EC	5	14x10	E	14"ø
F	FILTER GRILLE	NAILOR 61 FP	6	48x24	F	16"ø
G	SIDEWALL GRILLE	NAILOR 6155 H	7	48x4	G	14x6
H	FIRE RATED	NAILOR	8	132x4	H	NECK SIZE
J	CURVED GRILLE	61DVC				
K	PLENUM DIFFUSER	NAILOR				
L	LAMINAR FLOW	NAILOR 92LFD-SS				
M	LINEAR SLOT	NAILOR 5010/5010R				
N	LINEAR SLOT	NAILOR 48LL2				
P	ARCH. RETURN/EXH.	NAILOR 6155H				
Q	PERFORATED FACE	NAILOR 4325/4360				
R	ROUND	NAILOR				
S	SECURITY GRILLES	NAILOR SG-61FH				
T	SECURITY DIFFUSER	NAILOR SG-6500				



AIR DISTRIBUTION LEGEND KEY

NOTES:

1. SUPPLY, EXHAUST, AND RETURN DIFFUSERS FOR PATIENT AND SUPPORT SPACES (I.E. EVERYWHERE BUT UTILITY ROOMS AND RESTROOMS) SHALL BE PROVIDED WITH RETAINING CLIP OPTION FOR AFFIXING CEILING GRID TO CENTER OF DEVICE.
2. MAXIMUM AIR VELOCITY THROUGH DIFFUSERS, GRILLES AND REGISTERS SHALL BE 500 FPM, UNLESS INDICATED OTHERWISE.
3. MAXIMUM NC SHALL BE 30.
4. PROVIDE FRAMES SUITABLE FOR TYPE OF INSTALLATION REQUIRED, VERIFY WITH FINAL APPROVED ARCHITECTURAL CEILING PLAN.
5. BASIS OF DESIGN IS NAILOR OR EQUAL.
6. PROVIDE SQUARE TO ROUND TRANSITION WITH APPROPRIATE NECK SIZE, AS REQUIRED.
7. REFER TO ARCHITECTURAL FOR FINISHES.
8. SEE PLANS FOR NECK SIZES OF REGISTERS AND GRILLES, ETC.
9. INSULATE BACK PANEL OF ALL SUPPLY DIFFUSERS. INSULATION TYPE SHALL MATCH INSULATION USED ON SUPPLY DUCTWORK.
10. DEVICES LOCATED IN TOILET(S) SHALL BE CONSTRUCTED OF ALUMINUM.
11. PROVIDE LINEAR SLOT DIFFUSERS WITH 180-DEGREE WIPER BLADE DAMPER FOR AIRFLOW DIRECTIONAL ADJUSTMENT.

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PROJECT NUMBER: 30240960.00 **HDG PROJECT NUMBER:** 24109

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA
HARRELL DESIGN GROUP, PC
No. 120213
CERTIFICATE OF AUTHORIZATION

DIGITAL SIGNATURE NOT VALID UNLESS CERTIFICATE IS VISIBLE BELOW SEAL

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 39705
ZACHARY, MARC LOY-COND

Digitally signed by Zachary Marc Loyacono
Date: 2025.07.14 15:40:49-04'00'

ORIG SUBMISSION: 07.03.2025

CURRENT:

SHEET TITLE AND NUMBER:

M6.01

SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL ARCH D SHEETS

SEQUENCE OF OPERATIONS:

ROOFTOP AIR HANDLING UNIT (RTU-1-1 AND RTU-1-2) – VAV, SUPPLY FAN, ECONOMIZER, REFRIGERANT COIL, ELECTRIC PREHEAT

GENERAL:
1. ALL ALARM POINTS SHALL WRITE TO BOTH THE BUILDING CONTROLLER AND TO THE CAMPUS BAS LOCATED IN THE EXISTING HOSPITAL.
2. THE BUILDING CONTROLLER SHALL BE VISIBLE AND ACCESSIBLE TO THE BAS.
3. ALARM ALL DIGITAL POINTS THAT DO NOT MATCH COMMAND LINE VALUE.
4. ALARM ALL ANALOGUE POINTS THAT ARE OUT OF AN ADJUSTABLE RANGE (+/-) FROM THE COMMAND LINE VALUE FOR MORE THAN 5 MINUTES (ADJUSTABLE BY POINT)
5. MANUAL RESET DUCT HIGH STATIC SWITCH, MANUAL RESET FREEZE THERMOSTAT, AND THE DUCT SMOKE DETECTORS SHALL BE HARD WIRED IN SERIES TO THE SF AND RF VSD MOTOR CONTROLLERS. AN OPEN CONTACT IN ANY SINGLE DEVICE SHALL STOP THE AHU.

AHU DISABLED:
1. SUPPLY FAN IS OFF.
2. OUTSIDE AIR DAMPER IS CLOSED.
3. RELIEF AIR DAMPER IS CLOSED.
4. AIR COOLED CONDENSING UNIT IS DE-ENERGIZED.
5. ELECTRIC PREHEAT COIL IS DE-ENERGIZED.
6. ALL SEQUENCES ARE DISABLED EXCEPT FOR THE COIL FREEZE PROTECTION SEQUENCE.

AHU START SEQUENCE:
1. RTU SHALL BE STARTED BY THE SCHEDULE PROGRAM IN THE BUILDING CONTROLLER, BY MORNING WARMUP ENABLE, OR BY MANUAL OVERRIDE. SCHEDULE PROGRAM SHALL BE 7 DAY, MINIMUM 6 EVENTS PER DAY. COORDINATE SCHEDULE WITH FACILITY OPERATIONS.
2. WHEN AN RTU ENABLE COMMAND IS RECEIVED, ENABLE THE SUPPLY FAN RUN SEQUENCE.
3. ON PROOF OF RUN OF THE SF ENABLE THE MINIMUM OUTSIDE AIR SEQUENCE AND THE ECONOMIZER SEQUENCE.
4. ENABLE THE HEATING SEQUENCE.
5. ENABLE THE COOLING SEQUENCE.

AHU STOP SEQUENCE:
1. RTU SHALL BE STOPPED BY THE SCHEDULE PROGRAM, MANUAL OVERRIDE, FAILURE ALARM CONDITION, OR SAFETY INTERLOCK.
2. WHEN ANY STOP COMMAND IS RECEIVED DISABLE THE AHU. STOP FANS AND RETURN DAMPERS OT THE OFF POSITION.

SUPPLY FAN SEQUENCE:
1. WHEN AN RTU ENABLE COMMAND IS RECEIVED, START THE SUPPLY FAN AT MINIMUM SPEED (ADJUSTABLE). RAMP THE SPEED UP BY PREPROGRAMMED ACCELERATION TIMING IN THE VSD MOTOR CONTROLLER. THE CONTROLS CONTRACTOR SHALL COORDINATE WITH THE VSD START UP TECHNICIAN TO DETERMINE THE OPTIMAL ACCELERATION RAMP. DO NOT EXCEED 60Hz PER MINUTE ACCELERATION TIME.
2. MONITOR THE DUCT STATIC PRESSURE (DSP) INPUT AND MODULATE THE SUPPLY FAN TO MAINTAIN THE DSP SETPOINT (ADJUSTABLE). TEST AND BALANCE CONTRACTOR SHALL PROVIDE THE INITIAL SETPOINT.
3. MONITOR THE AIR FLOW MEASUREMENT STATION ON THE SUPPLY FAN. CFM IS USED IN OTHER SEQUENCE FLOW CALCULATIONS.
4. IF THE SUPPLY FAN STATUS DOES NOT MATCH COMMAND LINE, INITIATE AN ALARM AT THE BAS IN THE ECC AND DISABLE THE RTU.
5. IF THE DSP VALUE APPROACHES A VALUE THAT IS 90% OF THE DUCT HIGH LIMIT (DHL) SETTING ON THE MANUAL RESET DUCT HIGH LIMIT SWITCH, INITIATE AN ALARM IN THE BAS.
6. WHEN THE SUPPLY FAN IS DISABLED RAMP THE FAN DOWN BY PREPROGRAMMED DECELERATION RAMP IN THE VSD. THE CONTROLS CONTRACTOR SHALL COORDINATE WITH THE VSD START UP TECHNICIAN TO DETERMINE THE OPTIMAL DECELERATION RAMP.

MINIMUM OUTSIDE AIR SEQUENCE:
1. WHEN THE RTU IS ENABLED AND PROOF OF THE SUPPLY FAN RUNNING IS VERIFIED, ENABLE THE MINIMUM OUTSIDE AIR SEQUENCE.
2. OPEN THE OUTSIDE AIR DAMPER AND MONITOR THE AIR FLOW MONITORING STATION. MODULATE THE OUTSIDE AIR DAMPER TO MAINTAIN THE MINIMUM OUTSIDE AIR SETPOINT (ADJUSTABLE).
3. IF THE AIR FLOW CFM DOES NOT MATCH THE COMMAND LINE ±10% INITIATE AND ALARM IN THE BAS.

COOLING SEQUENCE:
1. WHEN THE RTU IS ENABLED AND PROOF OF THE SUPPLY FAN RUNNING IS VERIFIED, ENABLE THE COOLING SEQUENCE.
2. IF THE ECONOMIZER SEQUENCE IS DISABLED THE UNIT SHALL BE THE FIRST STAGE OF COOLING.
3. MODULATE COMPRESSORS TO MAINTAIN THE AHU LEAVING AIR TEMPERATURE (LAT) SETPOINT ADJUSTABLE.
4. IF THE ECONOMIZER IS ENABLED THE EVAPORATOR SHALL BE THE SECOND STAGE OF COOLING.
5. IF THE LEAVING AIR TEMPERATURE (LAT) IS GREATER THAN THE LAT SETPOINT BY 2°F FOR MORE THAN 10 MINUTES, THE ECONOMIZER SEQUENCE IS ENABLED, AND THE OUTSIDE AIR DAMPER IS 100%, ENABLE THE AIR COOLED CONDENSING UNIT SEQUENCE TO MAINTAIN THE LAT SETPOINT. IF THE LAT FALLS BELOW THE LAT SETPOINT BY MORE THAN 2°F FOR MORE THAN 10 MINUTES AND THE ECONOMIZER IS ENABLED, DISABLE THE AIR COOLED CONDENSING UNIT SEQUENCE.
6. IF THE LAT IS GREATER THAN COMMAND LINE BY 5°F FOR MORE THAN 10 MINUTES, INITIATE AN ALARM IN THE BAS.

HEATING/PREHEAT SEQUENCE:
1. WHEN THE RTU IS ENABLED AND PROOF OF THE SUPPLY FAN RUNNING IS VERIFIED, ENABLE THE PREHEAT SEQUENCE.
2. IF THE MIXED AIR TEMPERATURE (MAT) IS BELOW THE MINIMUM MIXED AIR TEMPERATURE SETPOINT (ADJUSTABLE), STAGE THE ELECTRIC PREHEAT COIL TO MAINTAIN THE MINIMUM MIXED AIR TEMPERATURE SETPOINT.
3. RESET THE MINIMUM MIXED AIR TEMPERATURE SETPOINT BASED ON THE AHU LAT SETPOINT. MINIMUM MIXED AIR TEMPERATURE = LAT – 3°F.
4. IF THE MINIMUM MIXED AIR TEMPERATURE IS MORE THAN 5°F BELOW THE MINIMUM MIXED AIR TEMPERATURE SETPOINT FOR MORE THAN 10 MINUTES, INITIATE AN ALARM IN THE BAS.

ECONOMIZER SEQUENCE:
1. WHEN THE RTU IS ENABLED AND PROOF OF THE SUPPLY FAN RUNNING IS VERIFIED, ENABLE THE ECONOMIZER SEQUENCE.
2. MONITOR THE RETURN AIR ENTHALPY, CALCULATED FROM THE RETURN AIR TEMPERATURE AND HUMIDITY. COMPARE THE RETURN AIR ENTHALPY TO THE ENTHALPY OF THE OUTSIDE AIR. IF THE OUTSIDE AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY BY 3 BTU/LB FOR A PERIOD OF 10 MINUTES, ENABLE THE ECONOMIZER SEQUENCE.
3. MODULATE THE OUTSIDE AIR DAMPER TO MAINTAIN THE MINIMUM MIXED AIR TEMPERATURE. IF THE OUTSIDE AIR DAMPER IS 100% OPEN AND THE MAT IS ABOVE THE MINIMUM MIXED AIR TEMPERATURE THE EVAPORATOR WILL ACT AS THE SECOND STAGE OF COOLING. SEE COOLING SEQUENCE.
4. REVERSE THE SEQUENCE UNTIL THE OUTSIDE AIR DAMPER IS MAINTAINING THE MINIMUM OUTSIDE AIR CFM.
5. IF THE MAT FALLS BELOW 38°F, INITIATE THE FREEZE PROTECTION SEQUENCE.

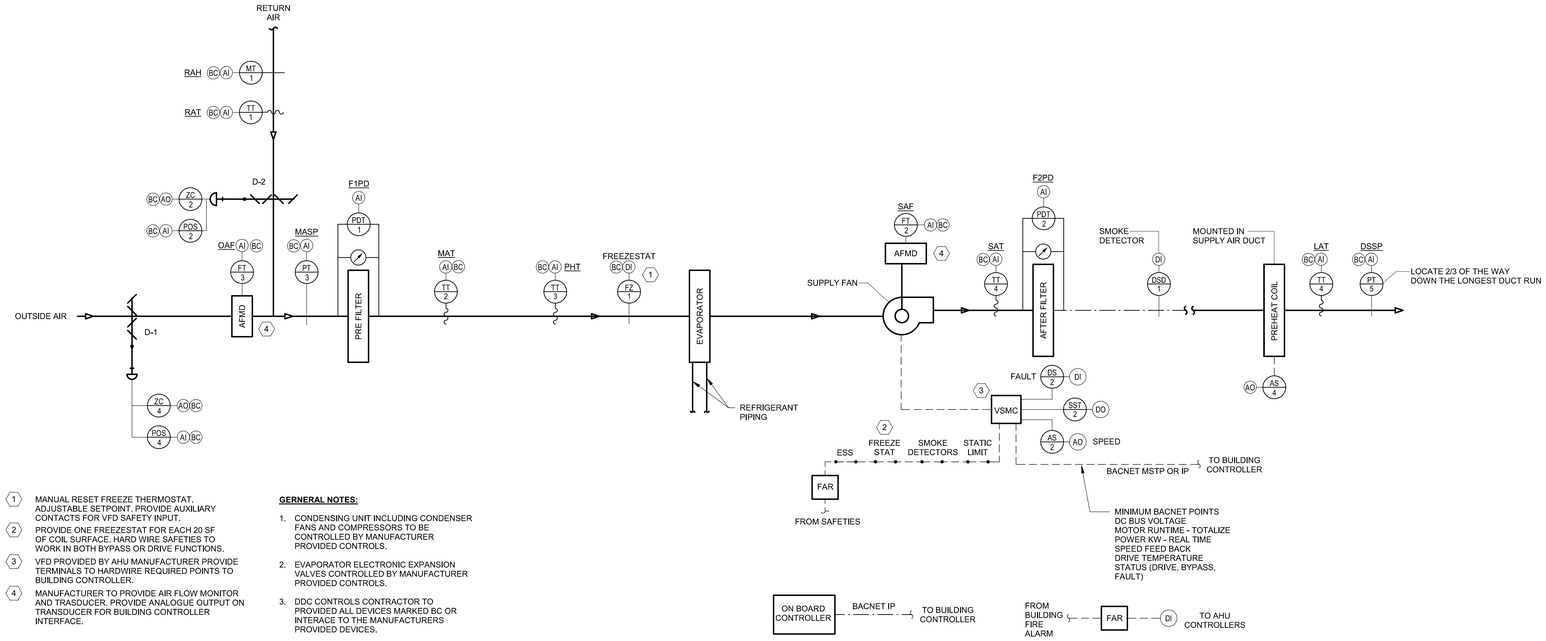
FREEZE PROTECTION SEQUENCE:
1. IF THE MAT FALLS BELOW 38°F THE FREEZE PROTECTION SEQUENCE SHALL BE ENABLED.
2. INITIATE ALARM IN THE BAS.
3. DISABLE THE AIR COOLED CONDENSING UNIT.
4. STAGE ON THE ELECTRIC PREHEAT COIL.

MORNING WARMUP SEQUENCE:
1. PROVIDE A DYNAMIC MORING WARMUP SEQUENCE.
2. USE HISTORICAL DATA AND OUTSIDE AIR TEMPERATURE TO DETERMINE WHEN THE MORNING WARMUP SEQUENCE WILL START.
3. START THE SUPPLY FAN PER THE START SEQUENCE.
4. THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPER SHALL REMAIN CLOSED.
5. STAGE THE ELECTRIC PREHEAT COIL TO MAINTAIN THE MORNING WARM UP TEMPERATURE SETPOINT.
6. DYNAMICALLY RESET THE MORNING WARM UP TEMPERATURE SETPOINT BY THE OUTSIDE TEMPERATURE AND HISTORICAL DATA TO PROVIDE THE MOST EFFECTIVE TEMPERATURE FOR MORNING WARMUP.
7. WHEN THE SPACES IN THE CONTROL ZONE ARE AT OCCUPIED TEMPERATURES, DISCONTINUE MORNING WARMUP. START THE SYSTEM BY SYSTEM SCHEDULE.

UNOCCUPIED TEMPERATURE CONTROL SEQUENCE:
1. WHEN A MINIMUM OF 25% OF THE CONTROLLED SPACES ARE CALLING FOR HEATING OR WHEN ONE ZONE IS MORE THAN 10°F BELOW THE UNOCCUPIED HEATING SETPOINT, START THE MORNING WARMUP SEQUENCE. SET THE LAT TO 90°F. SHUT THE AHU DOWN WHEN ALL SPACES ARE SATISFIED.

MORNING COOL DOWN SEQUENCE:
1. PROVIDE A DYNAMIC MORNING COOL DOWN SEQUENCE.
2. USE HISTORICAL DATA AND OUTSIDE AIR TEMPERATURE TO DETERMINE WHEN THE MORNING COOL DOWN SEQUENCE WILL START.
3. START THE SUPPLY FAN PER THE START SEQUENCE.
4. ENABLE THE ECONOMIZER SEQUENCE AND MODULATE THE OUTSIDE AND RETURN AIR DAMPERS TO MAINTAIN THE AHU LAT SETPOINT FOR MORNING COOL DOWN. IF THE ECONOMIZER SEQUENCE CAN NOT MAINTAIN THE LAT SETPOINT, USE THE EVAPORATOR AS THE SECOND STAGE OF COOLING.
5. WHEN THE SPACES IN THE CONTROL ZONE ARE AT OCCUPIED TEMPERATURES, DISCONTINUE MORNING COOL DOWN. START THE SYSTEM BY SYSTEM SCHEDULE.

EXHAUST FAN INTERLOCK:
1. EXHAUST FANS INTERLOCKED TO RTU SHALL BE ENERGIZED AT ALL TIMES THAT RTU IS RUNNING, AND SHALL DE-ENERGIZE AT ALL TIMES THAT THE RTU IS NOT RUNNING. REFER TO FAN INTERLOCK SCHEDULE.



1. MANUAL RESET FREEZE THERMOSTAT, ADJUSTABLE SETPOINT, PROVIDE AUXILIARY CONTACTS FOR VFD SAFETY INPUT.
2. PROVIDE ONE FREEZESTAT FOR EACH 20 SF OF COIL SURFACE. HARD WIRE SAFETIES TO WORK IN BOTH BYPASS OR DRIVE FUNCTIONS.
3. VFD PROVIDED BY AHU MANUFACTURER PROVIDE TERMINALS TO HARDWIRE REQUIRED POINTS TO BUILDING CONTROLLER.
4. MANUFACTURER TO PROVIDE AIR FLOW MONITOR AND TRASDUCER. PROVIDE ANALOGUE OUTPUT ON TRANSDUCER FOR BUILDING CONTROLLER INTERFACE.

GENRERAL NOTES:

1. CONDENSING UNIT INCLUDING CONDENSER FANS AND COMPRESSORS TO BE CONTROLLED BY MANUFACTURER PROVIDED CONTROLS.
2. EVAPORATOR ELECTRONIC EXPANSION VALVES CONTROLLED BY MANUFACTURER PROVIDED CONTROLS.
3. DDC CONTROLS CONTRACTOR TO PROVIDED ALL DEVICES MARKED BC OR INTERACE TO THE MANUFACTURERS PROVIDED DEVICES.

CONTROLS SYMBOLS

- AS # — ANALOG SIGNAL INPUT OR OUTPUT (0-10V / 4-20 MA ONLY)
- DS # — DIGITAL SIGNAL (PULSE) (SWITCH, RELAY, ETC.)
- DSD # — DUCT SMOKE DETECTOR
- FT # — FLOW TRANSMITTER
- FZ # — FREEZESTAT
- IT # — CURRENT TRANSMITTER (STATUS)
- MT # — HUMIDITY SENSOR
- POS # — POSITION SENSOR
- PT # — PRESSURE TRANSMITTER
- SST # — START/STOP (ENABLE)
- TT # — TEMPERATURE SENSOR
- ZC # — DAMPER/VALVE ACTUATOR (0-10V / 4-20 MA ONLY)
- HS — HAND SWITCH
- ECC — CONNECTION TO ECC/BAS
- AFMD — AIRFLOW MEASURING DEVICE
- FAR — FIRE ALARM RELAY CONTROLLED BY FIRE SYSTEM N.C.
- SD — SMOKE DAMPER
- PDT # — PRESSURE DIFFERENTIAL TRANSMITTER

FAN INTERLOCK SCHEDULE

FAN NO.	FAN SERVICE	FAN INTERLOCKED TO UNIT	NOTES
EF-1-1	EXAM / ADMIN	RTU-1-1	NONE
EF-1-2	IMAGING	RTU-1-2	NONE
EF-ISO	ISOLATION EXAM	RTU-1-1	NONE
EF-MG	MEDICAL GAS	NONE	1
EF-PURGE	MRI EMERGENCY PURGE	NONE	2

NOTES:
1. EF-MG SERVES THE MEDICAL GAS ROOM AND HAS NO UNIT INTERLOCK.
2. EF-PURGE SERVES THE MRI SPACE IN THE EVENT OF EMERGENCY PURGE AND HAS NO UNIT INTERLOCK.

1 RTU CONTROL SCHEMATIC AND SEQUENCE OF OPERATION

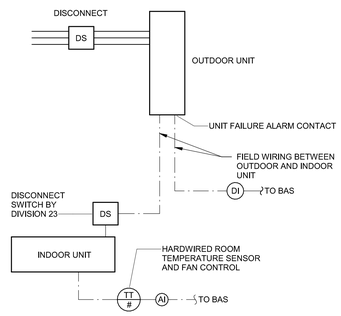
12" = 1'-0"

2 DUCTLESS SPLIT SYSTEM CONTROLS

NOT TO SCALE

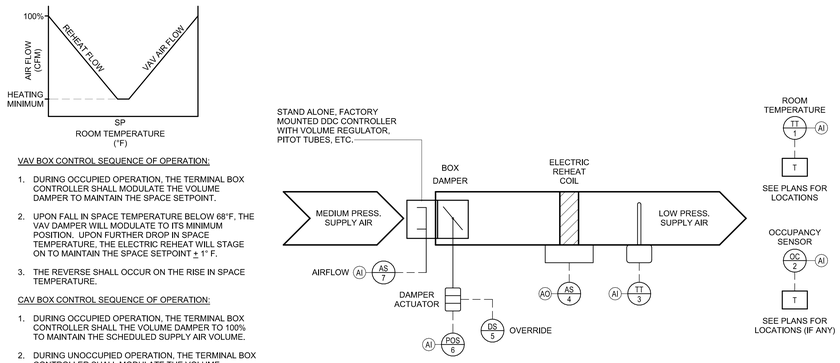
DUCTLESS SPLIT SYSTEMS SEQUENCE OF OPERATIONS:

1. WHEN THE UNIT-MOUNTED INDOOR THERMOSTAT CALLS FOR COOLING, THE OUTDOOR AND INDOOR UNITS SHALL BE ENERGIZED. UNITS SHALL DE-ENERGIZED UPON REACHING 5 DEG. F (ADJ.) BELOW THE USER-DEFINED TEMPERATURE SETPOINT.
2. DEFROST CYCLE SHALL OPERATE PER MANUFACTURER'S RECOMMENDATION.
3. UPON RECEIPT OF ANY ALARM, BOTH THE INDOOR AND OUTDOOR UNITS SHALL BE DE-ENERGIZED AND AN ALARM SENT TO THE LOCAL BAS PANEL.



3 VAV AND CV AIR TERMINAL UNIT WITH ELECTRIC REHEAT CONTROL DIAGRAM

NOT TO SCALE



VAV BOX CONTROL SEQUENCE OF OPERATION:

1. DURING OCCUPIED OPERATION, THE TERMINAL BOX CONTROLLER SHALL MODULATE THE VOLUME DAMPER TO MAINTAIN THE SPACE SETPOINT.
2. UPON FALL IN SPACE TEMPERATURE BELOW 68°F, THE VAV DAMPER WILL MODULATE TO ITS MINIMUM POSITION. UPON FURTHER DROP IN SPACE TEMPERATURE, THE ELECTRIC REHEAT WILL STAGE ON TO MAINTAIN THE SPACE SETPOINT ± 1° F.
3. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.

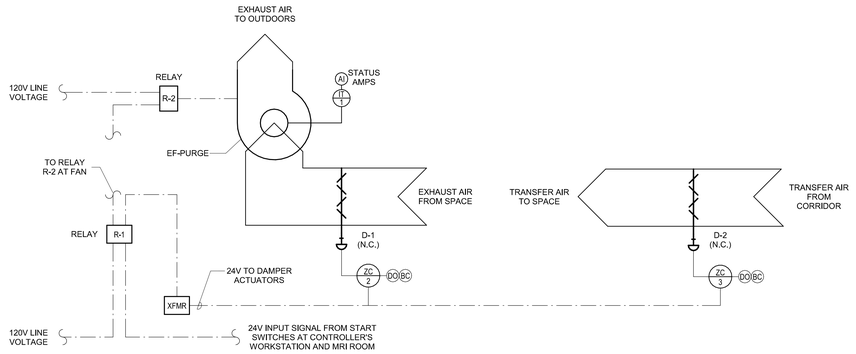
CAV BOX CONTROL SEQUENCE OF OPERATION:

1. DURING OCCUPIED OPERATION, THE TERMINAL BOX CONTROLLER SHALL THE VOLUME DAMPER TO 100% TO MAINTAIN THE SCHEDULED SUPPLY AIR VOLUME.
2. DURING UNOCCUPIED OPERATION, THE TERMINAL BOX CONTROLLER SHALL MODULATE THE VOLUME DAMPER TO THE SPACE MINIMUM UNOCCUPIED AIR CHANGE RATE.
3. UPON FALL IN SPACE TEMPERATURE BELOW 68°F, THE ELECTRIC REHEAT WILL STAGE ON TO MAINTAIN THE SPACE SETPOINT ± 1° F.
4. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.

NOTES:
1. PROVIDE ONE LINE VOLTAGE TO 24V TRANSFORMER PER TERMINAL BOX TO POWER CONTROLLER.

4 MRI PURGE EXHAUST FAN SEQUENCE OF OPERATIONS

NOT TO SCALE



MRI PURGE EXHAUST FAN SEQUENCE OF OPERATION:

1. DAMPERS D-1 AND D-2 SHALL BE NORMALLY CLOSED AT ALL TIMES THAT EXHAUST FAN EF-PURGE IS DE-ENERGIZED.
2. WHEN EF-PURGE IS ENERGIZED VIA THE START SWITCH AT THE CONTROLLER'S WORKSTATION OR MRI ROOM, DAMPERS D-1 AND D-2 SHALL OPEN TO THEIR FULLY OPEN POSITION.
3. EF-PURGE SHALL REMAIN ENERGIZED FOR A PERIOD OF NOT LESS THAN 15 MINUTES DURING THE PURGE SEQUENCE.
4. UPON DE-ENERGIZING OF EF-PURGE, DAMPERS D-1 AND D-2 SHALL RETURN TO THEIR NORMALLY CLOSED POSITIONS.

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR SWITCH LOCATIONS.
2. START SWITCHES IN MRI ROOM AND AT CONTROLLER'S WORKSTATION SHALL BE RED, "MUSHROOM" TYPE PUSH BUTTONS AND WIRED IN PARALLEL.

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MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00 HDG PROJECT NUMBER: 24109

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HARRELL DESIGN GROUP, PC No. C027113

DIGITAL SIGNATURE NOT VALID UNLESS CERTIFICATE IS VISIBLE BELOW SEAL

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 39705 ZACHARY MARC LOYACONO

Digitally signed by Zachary Marc Loyacono
Date: 2025.07.14 15:41:14-04'00'

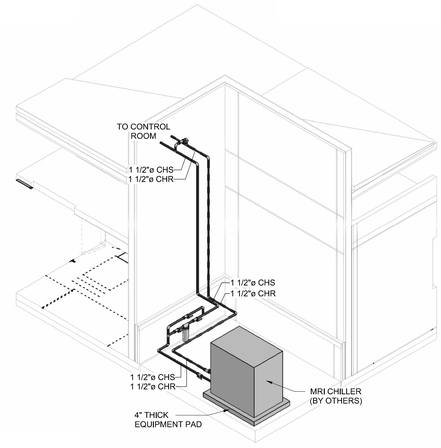
ORIG SUBMISSION: 07.03.2025
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SHEET TITLE AND NUMBER:

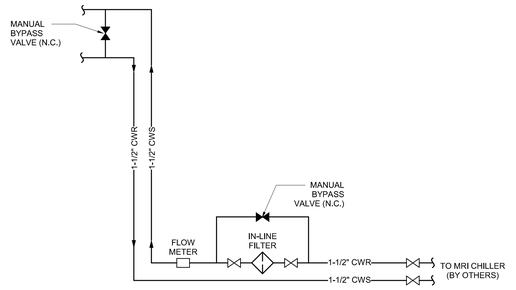
M7.01

CONTROLS SCHEMATICS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL ARCH D SHEETS



1 MRI CHILLER PIPING ISOMETRIC



2 MRI CHILLER PIPING SCHEMATIC

NOT TO SCALE

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
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CMC CONWAY MEDICAL CENTER
CMC Socastee FSED
6016 HIGHWAY 707
MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00 **HDG PROJECT NUMBER:** 24109

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA
HARRELL DESIGN GROUP, PC
No. 0202713
CERTIFICATE OF AUTHORIZATION

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SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 39705
ZACHARY, MARC LOYACONO

Digitally signed by Zachary Marc Loyacono
Date: 2025.07.14 15:41:33-04'00'

ORIG SUBMISSION: 07.03.2025
CURRENT:

SHEET TITLE AND NUMBER:

M7.02

CONTROLS SCHEMATICS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30 SHEETS ORIGINAL PLOT SIZE

	SOLID LINE DENOTES CONDUIT RUN CONCEALED IN WALL, ABOVE CEILINGS, EXPOSED IN UNFINISHED AREAS. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL. DASHED LINE DENOTES CONDUIT RUN BELOW GRADE OR BELOW FINISHED FLOOR.
	HOMERUNS SHALL BE MINIMUM 3/4" CONDUIT AND #12 WIRE FOR THE NUMBER OF CIRCUITS INDICATED UNLESS OTHERWISE NOTED OR SCHEDULED. QUANTITY OF ARROWS INDICATES NUMBER OF CIRCUITS. EACH CIRCUIT TO HAVE OWN NEUTRAL. SOME HOMERUNS INDICATE PARTIAL CIRCUITS. REFER TO OTHER HOMERUNS OR CIRCUIT TAGS FOR COMPLETE CIRCUIT.
H	SURFACE, RECESSED OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO NORMAL BRANCH CIRCUIT. UPPER CASE LETTER INDICATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. WHERE A LOWER CASE LETTER IS SHOWN IT INDICATES SWITCH ASSIGNMENT.
H	SURFACE, RECESSED OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO CRITICAL BRANCH CIRCUIT. UPPER CASE LETTER INDICATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. WHERE A LOWER CASE LETTER IS SHOWN IT INDICATES SWITCH ASSIGNMENT.
H	SURFACE, RECESSED OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO LIFE SAFETY BRANCH CIRCUIT. UPPER CASE LETTER INDICATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. WHERE A LOWER CASE LETTER IS SHOWN IT INDICATES SWITCH ASSIGNMENT.
	CEILING MOUNTED EXIT SIGN, SHADED AREA INDICATES FACE WITH DIRECTIONAL ARROWS AS SHOWN. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.
H H	WALL MOUNTED EXIT SIGN, SHADED AREA INDICATES FACE WITH DIRECTIONAL ARROWS AS SHOWN. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.
S	SINGLE-POLE TOGGLE SWITCH IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX.
S_3	THREE-WAY TOGGLE SWITCH IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX.
S_D	DIMMER CONTROL SWITCH MOUNTED IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MATCH DIMMER ACCORDING TO LOAD TYPE.
S_{D3}	3-WAY DIMMER CONTROL SWITCH MOUNTED IN FLUSH (FINISHED SPACES) SURFACE (UNFINISHED SPACES) OUTLET BOX. MATCH DIMMER ACCORDING TO LOAD TYPE.
S_{OS}	SWITCH MOUNTED OCCUPANCY SENSOR DUAL TECHNOLOGY WITH MANUAL SWITCH.
OS	OCCUPANCY SENSOR. CEILING MOUNTED. REFERENCE SPECIFICATION SECTION 26 09 23.
1L1	480Y/277 VOLT PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. DESIGNATION AS INDICATED. SEE PANEL SCHEDULE FOR EXACT REQUIREMENTS. TOP OF PANEL SHALL NOT EXCEED 6'-0" A.F.F.
1L1	208Y/120 OR 120/240 VOLT PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. DESIGNATION AS INDICATED. SEE PANEL SCHEDULE FOR EXACT REQUIREMENTS. TOP OF PANEL SHALL NOT EXCEED 6'-0" A.F.F.
	EQUIPMENT CONNECTION. LABEL INDICATES EQUIPMENT DESIGNATION. SEE EQUIPMENT CONNECTION SCHEDULE FOR CIRCUIT AND CONNECTION REQUIREMENTS.
	125 VOLT, 3 WIRE DUPLEX RECEPTACLE IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 18-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
	125 VOLT, 3 WIRE DUPLEX RECEPTACLE IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 6-INCHES ABOVE COUNTER TOP UNLESS OTHERWISE INDICATED.
	TWO 125 VOLT, 3 WIRE RECEPTACLES IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) 2-GANG OUTLET BOX. MOUNT 18-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
	TWO 125 VOLT, 3 WIRE RECEPTACLES IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) 2-GANG OUTLET BOX. MOUNT 6-INCHES ABOVE COUNTER TOP UNLESS OTHERWISE INDICATED.
E E	125 VOLT, 3 WIRE DUPLEX RECEPTACLE CONNECTED TO EMERGENCY BRANCH CIRCUIT. PROVIDE RED RECEPTACLE UNLESS OTHERWISE INDICATED.
GF GF	125 VOLT, 3 WIRE GROUND FAULT CIRCUIT INTERRUPTING TYPE DUPLEX RECEPTACLE. MOUNTING AS INDICATED.
TV	TELEVISION OUTLETS FLUSH MOUNTED. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATION.
	NON FUSED DISCONNECT.
XX	PLAN KEYNOTE. NOTE NUMBER AS INDICATED.
N# E#	N# - PATIENT ROOM NORMAL CIRCUIT NUMBER. E# - PATIENT ROOM EMERGENCY CIRCUIT NUMBER

STANDARD ABBREVIATIONS

A	
A	AMPERE. AMMETER
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AT	AMPERE TRIP
ATS	AUTHORITY HAVING JURISDICTION
ATS	AUTOMATIC TRANSFER SWITCH
C	
C	CONDUIT
CL	CENTER LIINE
CR	CARD READER
CU	COPPER
E	
E	EXISTING
EC	EMPTY CONDUIT
EMER	EMERGENCY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
G	
G, GND	GROUND
GF	GROUND FAULT INTERRUPTER
H	
HH	HAND HOLE
HP	HORSEPOWER
HZ	HERTZ
I	
IG	ISOLATED GROUND
J	
JB	JUNCTION BOX
K	
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
L	
LC	LIGHTING CONTACTOR
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
P	
PROVIDE	FURNISH, INSTALL AND CONNECT
R	
RECPT	RECEPTACLE
S	
SC	SECURITY CAMERA OUTLET
SN	SOLID NEUTRAL
SW	SWITCH
SWBD	SWITCHBOARD
T	
TV	COMBINATION TV AND RECEPT OUTLET
TYP	TYPICAL
U	
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
USB	UNIVERSIAL SERIAL BUS
V	
V	VOLT
W	
WAP	WIRELESS ACCESS POINT
WP	WEATHERTIGHT GFI
X	
XFMR	TRANSFORMER

GENERAL NOTES

A. BOTH THE CONTRACTOR AND INSTALLING ELECTRICIAN ARE REMINDED THAT SINCE THE NATIONAL ELECTRICAL CODE IS BY STATUTORY INCLUSION A PART OF THE LAWS OF THE STATE, THEY BEAR A PRIME RESPONSIBILITY TO COMPLY WITH IT EVEN WHEN THE PLANS OR SPECIFICATIONS DENOTE AN APPARENT VIOLATION. THIS SHOULD BE OBSERVED CAREFULLY AND CONTINUOUSLY, PARTICULARLY DURING ESTIMATING FOR PROPOSAL, AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

B. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN, ON THE SITE, AN ADEQUATE ADMINISTRATIVE SPACE WHERE ONE COMPLETE SET OF PLANS AND SPECIFICATIONS SHALL BE KEPT FOR THE WORK OF ALL TRADES ON THE PROJECT. THESE PLANS AND SPECIFICATIONS SHALL BE IN ADDITION TO THE SETS USED BY THE INSTALLING ELECTRICIAN IN CARRYING OUT THEIR DAY-TO-DAYWORK ON THE PROJECT. THE PROJECTED LOCATION OF EVERY OUTLET, RACEWAY, OR ITEM OF EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT SHALL BE CHECKED AGAINST THE PLANS AND SPECIFICATIONS OF ALL THE OTHER TRADES AS WELL AS BY DAILY CONFERENCE WITH WORKMEN AND SUPERVISORS OF ALL OTHER TRADES TO THE EXTENT THAT ANY CONFLICTS OR UNCERTAINTIES ABOUT LOCATIONS ARE RESOLVED BEFORE WORK IS INSTALLED, PARTICULARLY WITH REGARD TO THE INTERACTION OF LIGHTING FIXTURES, AIR HANDLING OPENINGS, ACCESS DOORS, SPRINKLER HEADS, ETC. CEILING CONSTRUCTION INSTALLATION SHALL BE MADE IN ACCORD WITH REFLECTED CEILING PLANS AND/OR INSTRUCTIONS BY THE ARCHITECT'S REPRESENTATIVES ON THE SITE. MOVING OF ITEMS FROM LOCATIONS SHOWN, REROUTING, OR CHANGES TO ACCOMPLISH ANY WORK AS SHOWN ON PLANS OR SPECIFICATIONS IN ORDER TO ACCOMPLISH THIS COORDINATION SHALL NOT BE CAUSE FOR CLAIM FOR ADDITIONAL COMPENSATION FOR THE WORK. PARTICULAR CARE SHALL BE TAKEN TO LOCATE BOXES SO THEY ARE NOT BACK-TO-BACK IN WALLS AND TO LOCATE OUTLETS OFF COLUMNS (UNLESS VITAL THEY BE THERE) OR OTHER PLACES WHERE THEY CONFLICT WITH STRUCTURAL STEEL OR REINFORCING BARS.

C. CONTRACTOR SHALL ALSO MAINTAIN AT THE SITE A COMPLETE SET OF ALL SHOP DRAWINGS, FIXTURE AND EQUIPMENT CUTS, MANUFACTURER'S WIRING DIAGRAMS AND INSTALLATION DATA. INSTALLING PERSONNEL SHALL STUDY THIS DATA BEFORE AND DURING INSTALLATION AND ROUGH-IN SO AS TO PREPARE FOR THE PROPER FIT AND FUNCTION UPON COMPLETION.

D. COMPLETE AND ADEQUATE HOUSING SHALL BE PROVIDED ON THE SITE FOR ORDERLY AND CAREFUL STORAGE OF ALL MATERIALS AND EQUIPMENT. NOTHING SHALL BE STORED WHERE EXPOSED TO WEATHER EXCEPT CONDUIT, WHICH MAY BE STORED IN RACKS SO IT IS AT LEAST 12 INCHES ABOVE GROUND AND NOT SUBJECT TO MUD BEING SPATTERED ON IT.

E. ATTENTION IS DIRECTED SPECIFICALLY TO SPECIFICATION SECTIONS REQUIRING CONTINUOUS QUALITY CONTROL TESTING.

F. IN GENERAL, MOUNTING HEIGHTS OF OUTLETS, SWITCHES, ETC. ARE NOT NOTED ON THE CONSTRUCTION DOCUMENTS. SCHEDULES AND NOTES SPECIFY "STANDARD" MOUNTING HEIGHTS FOR THESE ITEMS (SEE SPECS). STUDY CAREFULLY ELEVATIONS OF ALL WALLS AND CABINET WORK AS SHOWN ON ARCHITECTURAL DRAWINGS AND FIT OUTLETS TO SPACE AND TO AVOID CONFLICTS. OUTLETS SHALL ALWAYS BE LOCATED ABOVE, AND NOT IN, BACKSPLASHES. COORDINATE OUTLET LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS. ANY CONFLICT THAT CANNOT BE RESOLVED ON THE JOB SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER PRIOR TO ROUGH-IN.

G. ALL 20 AMP BRANCH CIRCUIT WIRE SIZING SHALL BE IN ACCORD WITH THE FOLLOWING TABLE:

REMAINDER

VOLTS	DISTANCE	HOME RUN	OF CIRCUIT
120/208	0' - 50'	#12	#12
	50'- 100'	#10	#12
	100' - 150'	# 8	#10
277/480	0' - 125'	#12	#12
	125' - 220'	#10	#12
	220' - 330'	# 8	#10

H. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING BUT NOT LIMITED TO, BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, AND TRANSFORMER LUGS, SHALL BE RATED FOR USE WITH 75 DEGREE CONDUCTORS SIZED IN ACCORDANCE WITH NEC TABLE 310-16.

I. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 517 OF THE NATIONAL ELECTRICAL CODE. SPECIFICALLY, IT WILL BE REQUIRED THAT ALL CIRCUITS (120V OR 277V) SERVING LIGHTING, OUTLETS, OR EQUIPMENT IN PATIENT CARE AREAS SHALL INCLUDE A GREEN INSULATED COPPER GROUNDING CONDUCTOR (#12 MIN.). THIS INCLUDES PATIENT ROOMS, PATIENT TOILETS, RECREATION AREAS, AND ALL ROOMS USED FOR EXAMINATION OR TREATMENT. GROUNDING SHALL BE TESTED AS REQUIRED BY NEC 517 AND NFPA 99. TEST RESULTS SHALL BE SENT TO THE ENGINEER IN THE FORM OF A LETTER. PANEL BOARDS SHALL BE GROUNDED AS REQUIRED BY 517.

J. CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION. UPON SUCCESSFUL COMPLETION OF TESTS, CONFIRMATION SHALL BE SENT TO THE ENGINEER OF RECORD, BUILDING STANDARDS DEPT, AND THE FIRE MARSHAL IN THE FORM OF A LETTER STATING THE TESTS PERFORMED, THE RESULTS, AND THE DATE TESTS WERE SUCCESSFULLY COMPLETE. "LIFE SAFETY" EQUIPMENT AND SYSTEMS CONSIST OF THOSE AS SPECIFIED IN NFPA 101, NFPA 99, AND THE STATE BUILDING CODE.

K. ALL RECEPTACLES AND INTERIOR SWITCHES ON EMERGENCY POWER CIRCUITS SHALL BE RED IN COLOR. ALL OTHERS SHALL BE IVORY. ALL TRIM PLATES SHALL BE 302 NON- MAGNETIC STAINLESS STEEL. ALL EXTERIOR OR WET LOCATION COVER PLATES SHALL BE LABELED "WET WHILE NOT IN USE." USING ENGRAVED PHENOLIC IDENTIFICATION TAGS HAVING RED LETTERS AND WHITE BACKGROUND, LABEL EACH EMERGENCY RECEPTACLE PLATE WITH THE PANEL AND CIRCUIT NUMBER FROM WHICH SERVED.

L. THIS PROJECT INVOLVES SOME DEMOLITION WORK. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER REMOVAL OF WIRING, RACEWAY, OUTLETS, ETC., AS NECESSARY TO ACCOMPLISH THE DEMOLITION WORK. ANY SALVAGEABLE MATERIALS REMOVED DURING DEMOLITION SHALL BE TURNED OVER TO THE OWNER. REFER TO THE ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION.

M. ELECTRICAL CONTRACTOR SHALL REMOVE AND MAKE SAFE ALL CIRCUITS ABANDONED UNDER THIS PROJECT. REMOVE ALL CONDUCTORS NOT USED BACK TO PANEL. CHANGE PANEL DIRECTORY TO REFLECT NEW SPARES. WHERE EXISTING HOMERUNS AND ASSOCIATED WIRING ARE NOTED TO BE REUSED, EXTRA CARE SHALL BE TAKEN TO INSURE THAT THESE EXISTING RUNS REMAIN AFTER THE DEMOLITION PHASE HAS BEEN COMPLETED.

N. PENETRATIONS OF REQUIRED SMOKE TIGHT PARTITIONS SHALL BE SEALED USING METHODS APPROVED UNDER THE STATE BUILDING CODE. COORDINATION WITH THE OWNER AND ENGINEER SHALL BE MAINTAINED TO INSURE THAT THIS SMOKE STOPPING IS ACCOMPLISHED.

O. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE SECTION 10. COORDINATION WITH THE OWNER AND ENGINEER SHALL BE MAINTAINED TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE ONLY APPROVED ASSEMBLIES SUCH AS THE FOLLOWING:
CONDUIT PENETRATIONS OF 1 & 2 HOUR GYPBOARD WALLS - U.L.#WL1001
CONDUIT PENETRATIONS OF 1 & 2 HOUR CONCRETE OR BLOCK WALLS - U.L.#CAJ1001
CONDUIT PENETRATIONS OF 1 & 2 HOUR CONCRETE FLOORS - U.L.#CAJ1001

P. IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY WITH THE OWNER AND ENGINEER TO INSURE THE INTEGRITY OF THE U.L. RATING IS MAINTAINED. BOXES OF 16 SQUARE INCHES OR LESS SHALL BE INSTALLED IN ACCORDANCE WITH U.L. "FIRE RESISTANCE RATINGS - ANSI/UL263 (BXUV) FOR WALL AND PARTITION ASSEMBLIES.

Q. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SYSTEM OF LIGHTNING PROTECTION IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS AND WITH THE LATEST APPLICABLE NEC, NFPA 780 "STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS", AND UL 96 "LIGHTNING PROTECTION COMPONENTS" FOR A CLASS 1 BUILDING. THE INSTALLING CONTRACTOR SHALL PROVIDE A UL MASTER LABEL, SUITABLE FOR FASTENING TO THE BUILDING FOR DISPLAY, FOR THE OVERALL SYSTEM PER UL96A. THE GROUND LOOP USED TO EQUALIZE POTENTIALS OF THE DOWNCONDUCTORS OF THE LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE GROUNDING SYSTEM FOR THE BUILDING(S) IN COMPLIANCE WITH NEC. THE OVERALL IMPEDANCE OF THE GROUNDING SYSTEM TO EARTH SHALL BE 10 OHMS.

LIGHTING FIXTURE SCHEDULE

TYPE	BASIS OF DESIGN	CATALOG INFORMATION	LAMP TYPE	MINIMUM LUMENS	COLOR TEMPERATURE	INPUT WATTS	VOLTAGE	MOUNTING	DESCRIPTION	REMARKS
A01	LITHONIA LIGHTING	STAKP SERIES	LED	4000	4000 K	33 W	UNIVERSIAL	RECESSED	2X2 RECESSED LED VOLUMETRIC TROFFER, 80 CRI ,CURVED OPAL LENS WITH TRIM , TO 1% DIMMER	RECESSED IN GRID OR GYPBOARD CEILING
A02	LITHONIA LIGHTING	STAKP SERIES	LED	4000	4000 K	31 W	UNIVERSIAL	RECESSED	2X4 RECESSED LED VOLUMETRIC TROFFER, 80 CRI ,CURVED OPAL LENS WITH TRIM , TO 1% DIMMER	RECESSED IN GRID OR GYPBOARD CEILING
A03	LITHONIA LIGHTING	STAKP SERIES	LED	6000	4000 K	46 W	UNIVERSIAL	RECESSED	2X4 RECESSED LED VOLUMETRIC TROFFER, 80 CRI ,CURVED OPAL LENS WITH TRIM , TO 1% DIMMER	RECESSED IN GRID OR GYPBOARD CEILING
A04	LITHONIA LIGHTING	CPANL SERIES	LED	4000	4000 K	35 W	UNIVERSIAL	RECESSED	2X4 FIELD TUNABLE FIXTURE	RECESSED IN GRID OR GYPBOARD CEILING
A05	LITHONIA LIGHTING	CPANL SERIES	LED	5000	4000 K	43 W	UNIVERSIAL	RECESSED	2X4 FIELD TUNABLE FIXTURE	RECESSED IN GRID OR GYPBOARD CEILING
A06	KENALL LIGHTING	MMA24 SERIES	LED	8000	4000 K	67 W	UNIVERSIAL	RECESSED	2X4 BEHAVIORAL HEATH FIXTURE. 16 GUAGE PAINTED COLD ROLLED STEEL, DIMMABLE BALLAST	RECESSED IN GRID OR GYPBOARD CEILING
A07	KENALL LIGHTING	MRIGT SERIES	LED	18000	4000 K	77 W	UNIVERSIAL	RECESSED	2X4 MRI RATED TROFFER, DIFFUSED ACRYLIC LENS, WITH SILICON GASKET	RECESSED IN GRID OR GYPBOARD CEILING
B01	FINELITE LIGHTING	HP-4 SERIES	LED	3705	4000 K	37 W	UNIVERSIAL	RECESSED	LED SLOT STRIP FIXTURE, COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LENGTHS, VERY HIGH OUTPUT	
B02	FINELITE LIGHTING	HP-4 SERIES	LED	1516	4000 K	15 W	UNIVERSIAL	RECESSED	LED SLOT STRIP FIXTURE, COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LENGTHS, STANDARD OUTPUT	
C01	LITHONIA LIGHTING	CLX SERIES	LED	5000	4000 K	32 W	UNIVERSIAL	SUSPENDED	4' STRIP LIGHT, COLD-ROLLED STEEL, WITH ENDCAPS AND LENS, WITH WIREGUARD, CHAIN MOUNTED	
C02	LITHONIA LIGHTING	CLX SERIES	LED	5000	4000 K	32 W	UNIVERSIAL	SUSPENDED	4' STRIP LIGHT, COLD-ROLLED STEEL, WITH ENDCAPS AND LENS, WITH WIREGUARD, CHAIN MOUNTED, WITH BATTERY BACKUP	
F01	LITHONIA LIGHTING	LDN6 SERIES	LED	2500	4000 K	28 W	UNIVERSIAL	RECESSED	6" RECESSED DIMMABLE DOWNLIGHT: WHITE FINISH FLUSH LENS. CLEAR CLEAIR SEMI-SPECULAR REFLECTOR TRIM, WHITE PAINTABLE FLANGE	
P01	KUZCO LIGHTING	CHAMPAGNE LED MINI PENDANT LIGHT	LED	450	3000 K	8 W	UNIVERSIAL	SURFACE	ARCHITECTURAL MINI LED PENDANT	
S01	US ARCHITECTURAL LIGHTING	RAZAR SERIES	LED	12600	4000 K	105 W	UNIVERSIAL	POLE	LED SINGLE HEAD HEAD POLE LIGHT, 48 LED, MEDIUM THROW, 700ma DRIVER, GREY FINISH, WITH PHOTOCELL, TYPE 3 DISTRIBUTION	NAFCO VA SERIES 16' GREY ROUND POLE. TO MATCH EXISTING SITE LIGHTING POLES.
S02	US ARCHITECTURAL LIGHTING	RAZAR SERIES	LED	25200	4000 K	210 W	UNIVERSIAL	POLE	LED DUAL HEAD POLE LIGHT, 48 LED, MEDIUM THROW, 700ma DRIVER, GREY FINISH, WITH PHOTOCELL, TYPE 3 DISTRIBUTION	NAFCO VA SERIES 16' GREY ROUND POLE. TO MATCH EXISTING SITE LIGHTING POLES.
W01	LSI LIGHTING	GREENBRIAR WALL SCONCE	LED	7000	4000 K	72 W	UNIVERSIAL	SURFACE	48 LED WALL SCONCE, NEUTRAL WHITE, MATCH EXISTING BUILDING FINISH, WITH PHOTOCELL	
X01	LITHONIA LIGHTING	LE SERIES	LED	2	4000 K	1 W	UNIVERSIAL	SURFACE	CEILING MOUNTED EXIT SIGN, RED LETTERS, WHITE DIECAST ALUMINUM BODY	
X02	LITHONIA LIGHTING	LE SERIES	LED	2	4000 K	1 W	UNIVERSIAL	SURFACE	WALL MOUNTED IN USE SIGN, RED LETTERS, WHITE DIECAST ALUMINUM BODY	

NOTES:
A. CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL AS SPECIFIED IN ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF CATALOG NUMBER GIVEN. CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL BY REVIEWING ARCH. FINISH SCHEDULES AND ORDER NECESSARY KIT IF SO NEEDED.
B. FIXTURES SHALL MEET LUMINAIRE DISCONNECT REQUIREMENTS AS SPECIFIED IN NEC 410.130(G)
C. FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE.
D. ALL LED DRIVERS AND CONTROL DEVICES SHALL BE COMPATIBLE AND ALL LED FIXTURES SHALL COME EQUIPPED FOR DIMMING AND LINE VOLTAGE OPERATION.
E. LIGHT FIXTURE MUST BE EQUIPPED FOR UNIVERSAL VOLTAGE OPERATION (120 OR 277 VOLT) OR VOLTAGE MUST BE MATCHED TO EACH FIXTURE ACCORDING TO CIRCUITING ON PLANS.
F. HATCHED FIXTURES TO HAVE 90-MINUTE FULL BRIGHTNESS BATTERY BACKUP.

CONTRACTOR COORDINATION

THE GENERAL CONTRACTOR SHALL TAKE THE LEAD IN PREPARING COORDINATION DRAWINGS. SUCH DRAWINGS SHALL BE ARRANGED AND DESIGNED THROUGH AND FROM COORDINATION WITH ALL OTHER MAJOR AND MINOR SUBCONTRACTORS. PROVIDE PLAN VIEWS, SECTIONS, AND ELEVATIONS AS REQUIRED TO FULLY COORDINATE ALL NEW WORK. DRAW TO SCALE (AT NOT LESS THAN 3/8"=1'0"). DRAWINGS SHALL SHOW, BUT NOT BE LIMITED TO: ALL WALL RATINGS, DUCTWORK, AIR DISTRIBUTION, MECHANICAL EQUIPMENT, MECHANICAL PIPING, FIRE PROTECTION PIPING, PLUMBING PIPING, CABLE TRAYS, LIGHTING FIXTURES, CEILING GRID, CEILING HEIGHT, MAJOR BEAMS AND JOISTS (WITH ELEVATIONS MARKED), FIRE, SAFETY, AND SECURITY ALARM DEVICES (WHERE CEILING MOUNTED), ELECTRICAL CONDUITS LARGER THAN 2 INCH DIAMETER, ELECTRICAL BUSWAY AND REQUIRED CLEARANCES, AND ANY EQUIPMENT PROVIDED BY OTHERS THAT PROTRUDE INTO THE CEILING CAVITIES OR IMPEDE THE LOCATION OR ACCESS TO ABOVE CEILING PIPING, DUCTWORK, OR OTHER EQUIPMENT. SECTIONS SHALL BE CUT THROUGH AREAS SHOWING MATERIALS AND SYSTEMS OF ALL CONTRACTS. IT IS IMPORTANT TO NOTE THAT FABRICATION CANNOT BEGIN UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED.

THE CONTRACTOR SHALL OBTAIN A COPY OF THE FINAL SITE LATEST VENDOR DRAWINGS PRIOR TO PROCURING OR INSTALLING ANY EQUIPMENT. ANY REWORK REQUIRED BY THE CONTRACTOR'S FAILURE TO OBTAIN THESE DRAWINGS SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL NOT RESULT IN ANY ADDITIONAL TIME TO THE PROJECT. THE CONTRACTOR SHALL MEET THE REPRESENTATIVE OF THE VENDOR PRIOR TO THE START OF WORK. ALL WORK SHALL COMPLY WITH ALL VENDOR REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN ON THESE DRAWINGS AND ALL WORK SHOWN ON THE VENDOR DRAWINGS. THE PHRASE "SUPPLIED BY CUSTOMER" (OR DERIVATIVES) MEANS "PROVIDED BY CONTRACTOR."

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6016 HIGHWAY 707
MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00 **HDG PROJECT NUMBER:** 24019

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22886 7/16/2025 RONALD A. JONES

SOUTH CAROLINA QUALITY CONSULTING ENGINEERS, LLC No. 4298 CERTIFICATE OF AUTHORIZATION

ORIG SUBMISSION: 07.03.2025
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SHEET TITLE AND NUMBER:

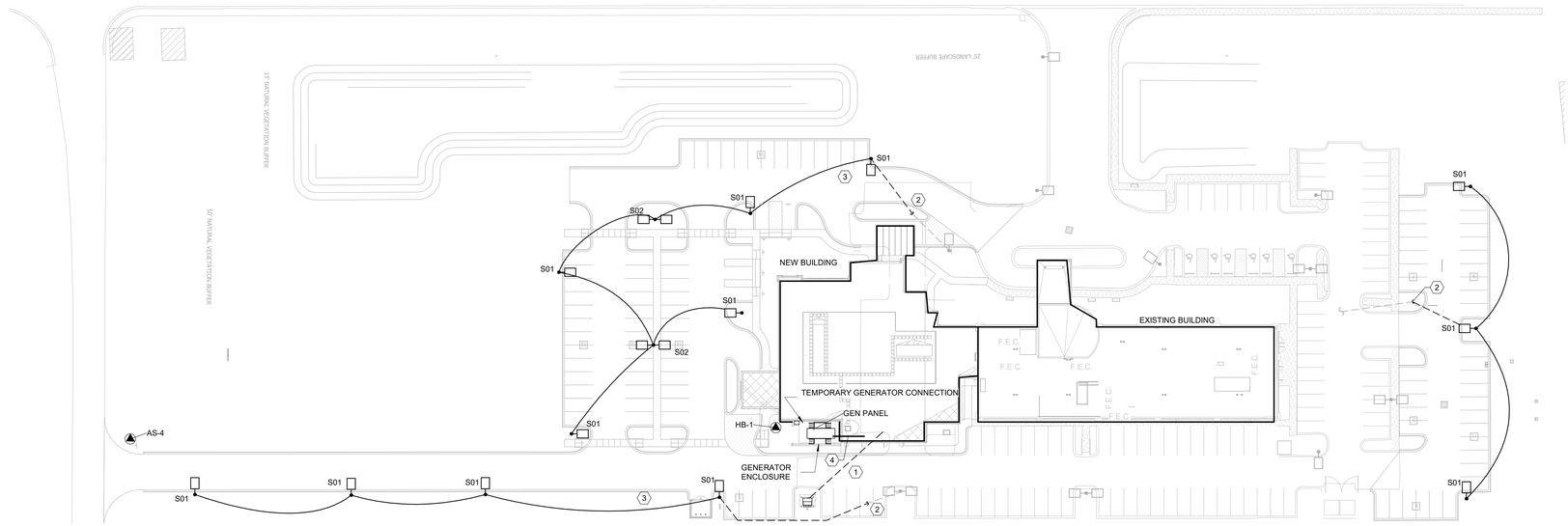
EG0.01

GENERAL NOTES AND SCHEDULES

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOT SIZE

KEYNOTES

1. PRIMARY CONDUIT PROVIDED BY POWER COMPANY. COORDINATE WITH POWER COMPANY TO INSTALL CONDUIT TO PAD BEFORE POUR.SECONDARIES BY CONTRACTOR.
2. EXISTING UNDERGROUND CONDUIT STUBBED ABOVE GRADE FOR SITE LIGHTING CONTINUATION. EXTEND CIRCUIT TO NEW LIGHTS. LOCATE EXACT LOCATION IN FIELD.
3. PROVIDE #10 WIRE IN LUE OF #12 FOR VOLTAGE DROP
4. PROVIDE 2" CONDUIT FOR GENERATOR START AND ANNUNCIATOR WIRING FROM ATSS TO GENERATOR. PROVIDE 1" CONDUIT FROM GENERATOR TO REMOTE ANNUNCIATOR PANEL FOR ANNUNCIATOR WIRING.



1 **ELECTRICAL SITE PLAN**
1" = 40'-0"

0 20' 40' 80'

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7/16/2025
DONALD A. JONES

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ELECTRICAL SITE PLAN

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOTTED SHEETS

GENERAL LIGHTING NOTES

A. REFER TO DRAWING EG001 FOR TYPICAL SYMBOLS AND ABBREVIATIONS USED IN THIS DRAWING.

B. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED FIXTURES AND DEVICES.

C. CONNECT ALL EMERGENCY EGRESS LIGHTING AND EXIT SIGNS AHEAD OF ANY LOCAL SWITCHING.

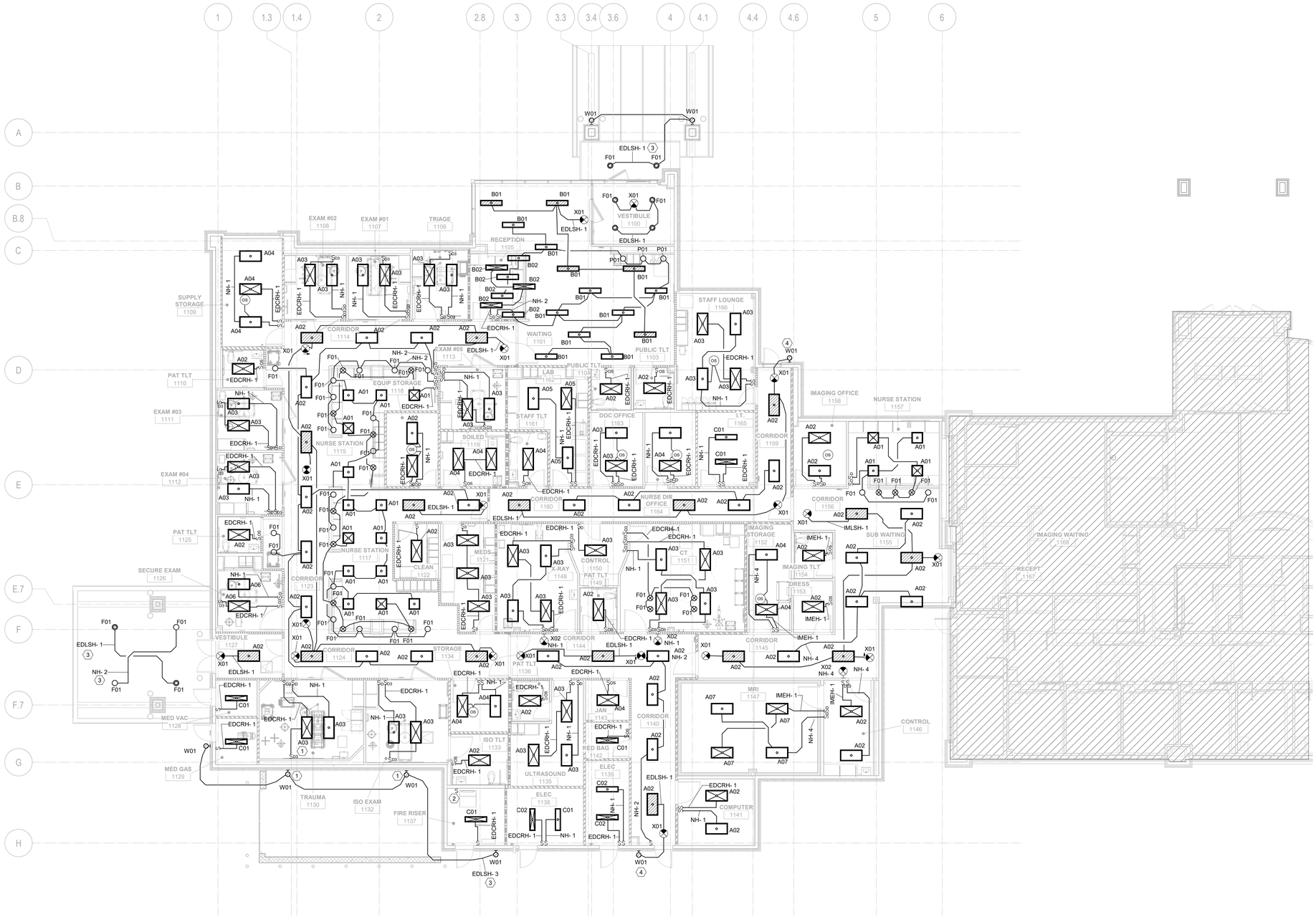
D. REVIEW THE CONSTRUCTION DOCUMENTS OF ALL TRADES FOR ADDITIONAL PHASING REQUIREMENTS.

WALL RATING LEGEND

- SMOKE PARTITION
- 1 HR FIRE BARRIER
- 1 HR FIRE / SMOKE BARRIER
- 2 HR FIRE BARRIER
- 2 HR FIRE / SMOKE BARRIER
- 3 HR FIRE BARRIER
- 3 HR FIRE / SMOKE BARRIER
- 4 HR FIRE BARRIER
- 4 HR FIRE / SMOKE BARRIER
- FIRE RATED DOOR

KEYNOTES

1. PROVIDE 90 MIN INTERGRAL BATTERY
2. LIGHT SWITCH FOR ROOF LIGHT FIXTURES
3. CONNECT LIGHTING CIRCUIT TO PHOTOCELL/TIMECLOCK CONTACTOR.
4. PROVIDE FIXTURE WITH INTEGRATED PHOTOCELL



1 **FIRST FLOOR PLAN - LIGHTING**

1/8" = 1'-0"

0 4' 8' 16'

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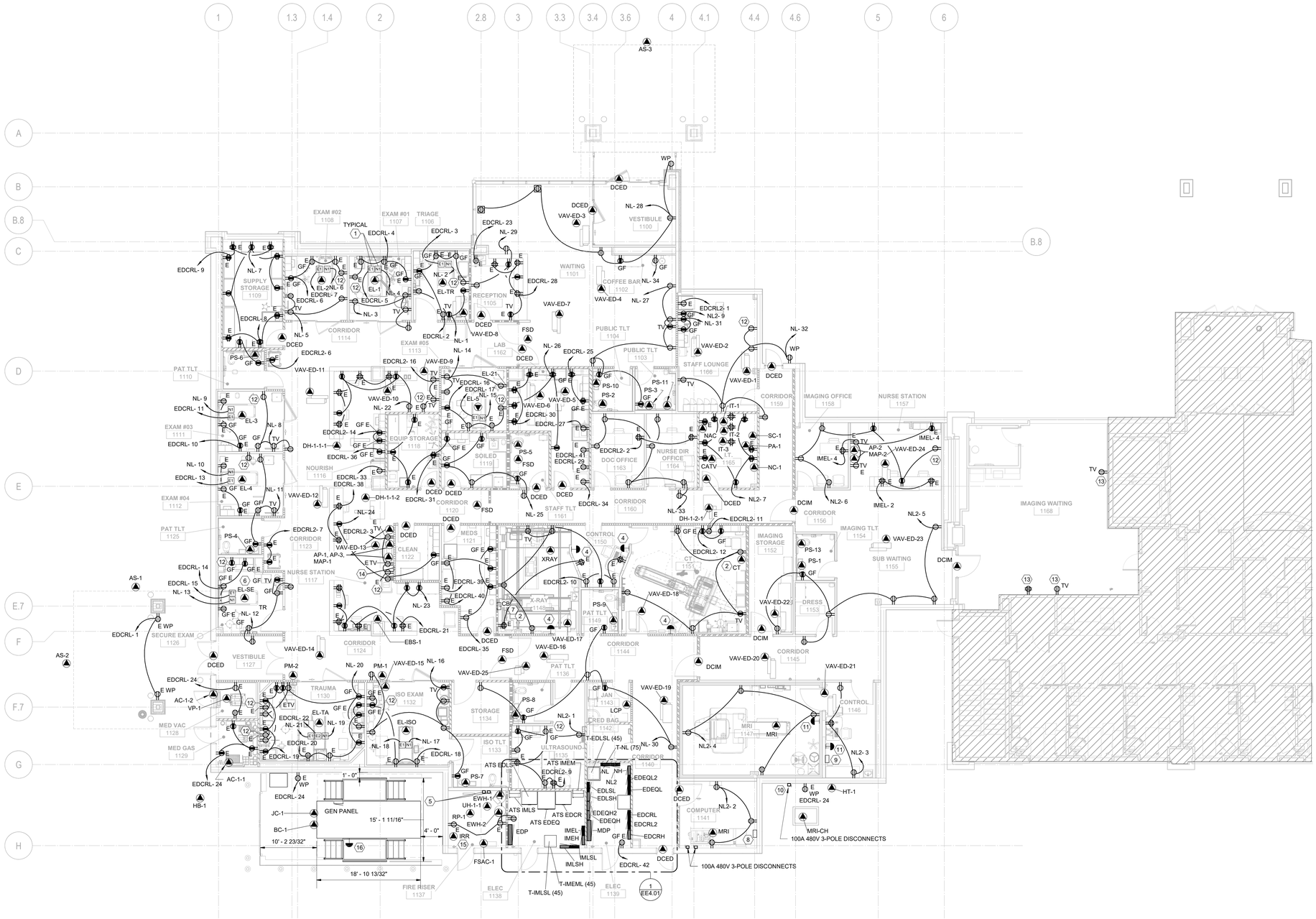
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FIRST FLOOR PLAN - LIGHTING

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE


1
1.3
1.4
2
2.8
3
3.3
3.4
3.6
4
4.1
4.4
4.6
5
6
A
B
B.8
C
D
E
E.7
F
F.7
G
H
AS-3
WP
DCED
VAV-ED-3
NL- 28
VESTIBULE 1100
EXAM #02 1108
EXAM #01 1107
TRIAGE 1106
TYPICAL
EDCRL- 4
EDCRL- 3
EDCRL- 23
NL- 29
WAITING 1101
COFFEE BAR 1102
NL- 34
VAV-ED-4
NL- 27
EDCRL- 28
EDCRL- 9
NL- 7
SUPPLY STORAGE 1109
EL-2
NL- 6
EDCRL- 7
EDCRL- 6
EDCRL- 5
NL- 4
EL-1
EL-TR
RECEPTION 1105
NL- 3
VAV-ED-7
EDCRL- 8
NL- 5
CORRIDOR 1114
EDCRL- 2
NL- 1
VAV-ED-8
DCED
FSD
NL- 14
NL- 26
EXAM #03 1113
LAB 1162
EDCRL- 25
PUBLIC TLT 1104
PUBLIC TLT 1103
EDCRL- 6
PS-6
EDCRL- 16
VAV-ED-9
VAV-ED-11
PAT TLT 1110
EDCRL- 17
NL- 15
EL-5
EL-21
VAV-ED-6
EDCRL- 30
EDCRL- 27
VAV-ED-5
PS-10
PS-11
PS-3
PS-2
STAFF LOUNGE 1166
VAV-ED-1
DCED
NL- 32
WP
NL- 9
EDCRL- 11
EL-3
NL- 8
VAV-ED-10
NL- 22
EXAM #03 1111
EDCRL- 10
EDCRL- 14
DH-1-1-1
EQUIP STORAGE 1118
EDCRL- 36
EDCRL- 33
EDCRL- 38
NOURISH 1116
SOILED 1119
PS-5
FSD
NURSE DIR OFFICE 1164
DOC OFFICE 1163
EDCRL- 2
EDCRL- 41
EDCRL- 29
IT-1
IT-2
IT-3
NAC
CATV
IT 1165
SC-1
PA-1
NC-1
NL2- 7
CORRIDOR 1159
IMAGING OFFICE 1158
NURSE STATION 1157
IMEL- 4
AP-2
MAP-2
VAV-ED-24
IMEL- 2
NL2- 6
DCIM
CORRIDOR 1156
IMAGING WAITING 1168
NL2- 5
IMAGING TLT 1154
VAV-ED-23
SUB WAITING 1155
IMAGING STORAGE 1152
PS-13
PS-1
CT 1151
EDCRL2- 12
CT
XRAY
CONTROL 1150
EDCRL- 10
EDCRL- 34
CORRIDOR 1160
STAFF TLT 1161
NL- 25
NL- 33
DH-1-2-1
EDCRL2- 11
EXAM #04 1112
PAT TLT 1125
EDCRL2- 7
EDCRL2- 3
PS-4
CORRIDOR 1123
VAV-ED-13
AP-1, AP-3, MAP-1
CLEAN 1122
MEDS 1121
EDCRL- 39
EDCRL- 40
NL- 23
EDCRL- 21
EBS-1
CORRIDOR 1124
NURSE STATION 1117
AS-1
EDCRL- 14
EDCRL- 15
NL- 13
EL-SE
TR
NL- 12
E WP
EDCRL- 1
SECURE EXAM 1126
AS-2
VESTIBULE 1127
VAV-ED-14
DCED
PM-2
NL- 20
PM-1
VAV-ED-15
NL- 16
VAV-ED-25
EDCRL- 24
E WP
AC-1-2
VP-1
MED VAC 1128
MED GAS 1129
TRAUMA 1130
ISO EXAM 1132
EL-TA
NL- 19
EDCRL- 22
NL- 21
EDCRL- 20
EDCRL- 19
EL-ISO
NL- 17
NL- 18
EDCRL- 18
STORAGE 1134
ISO TLT 1133
PS-8
PS-7
NL2- 1
T-EDLSL (45)
ULTRASOUND 1135
ATS EDLS
ATS IMEM
EDCRL2- 9
ATS IMLS
ATS EDCR
ATS EDEQ
EDP
IMEL-
IMEH
IMLSL
IMLSH
EDCRL- 42
DCED
100A 480V 3-POLE DISCONNECTS
T-IMEML (45)
T-IMLSL (45)
FSAC-1
ELEC 1138
ELEC 1139
1
EE4.01
JAN 1143
LCP
CRED BAG 1142
CORRIDOR 1140
NL NH
NL2
EDLSL
EDLSH
EDEQH2
EDEQH
MDP
EDEQL2
EDEQL
EDCRL
EDCRL2
EDCRH
CONTROL 1146
MRI 1147
NL2- 4
NL2- 3
COMPUTER 1141
NL2- 2
MRI
MRI-CH
100A 480V 3-POLE DISCONNECTS
HT-1
EDCRL- 24
CORRIDOR 1145
VAV-ED-20
VAV-ED-21
DCIM
CORRIDOR 1144
VAV-ED-16
VAV-ED-17
VAV-ED-18
VAV-ED-19
PAT TLT 1149
PAT TLT 1136
X-RAY 1148
CB
PS-9
DRESS 1153
VAV-ED-22
EDCRL- 35
EDCRL- 31
CORRIDOR 1120
DH-1-1-2
NL- 24
EDCRL- 33
EDCRL- 38
EDCRL- 36
DH-1-1-1
EQUIP STORAGE 1118
EDCRL- 14
EDCRL- 15
NL- 13
EL-SE
TR
NL- 12
E WP
EDCRL- 1
SECURE EXAM 1126
AS-2
VESTIBULE 1127
VAV-ED-14
DCED
PM-2
NL- 20
PM-1
VAV-ED-15
NL- 16
VAV-ED-25
EDCRL- 24
E WP
AC-1-2
VP-1
MED VAC 1128
MED GAS 1129
TRAUMA 1130
ISO EXAM 1132
EL-TA
NL- 19
EDCRL- 22
NL- 21
EDCRL- 20
EDCRL- 19
EL-ISO
NL- 17
NL- 18
EDCRL- 18
STORAGE 1134
ISO TLT 1133
PS-8
PS-7
NL2- 1
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ATS EDLS
ATS IMEM
EDCRL2- 9
ATS IMLS
ATS EDCR
ATS EDEQ
EDP
IMEL-
IMEH
IMLSL
IMLSH
EDCRL- 42
DCED
100A 480V 3-POLE DISCONNECTS
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T-IMLSL (45)
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ELEC 1138
ELEC 1139
1
EE4.01
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LCP
CRED BAG 1142
CORRIDOR 1140
NL NH
NL2
EDLSL
EDLSH
EDEQH2
EDEQH
MDP
EDEQL2
EDEQL
EDCRL
EDCRL2
EDCRH
CONTROL 1146
MRI 1147
NL2- 4
NL2- 3
COMPUTER 1141
NL2- 2
MRI
MRI-CH
100A 480V 3-POLE DISCONNECTS
HT-1
EDCRL- 24
CORRIDOR 1145
VAV-ED-20
VAV-ED-21
DCIM
CORRIDOR 1144
VAV-ED-16
VAV-ED-17
VAV-ED-18
VAV-ED-19
PAT TLT 1149
PAT TLT 1136
X-RAY 1148
CB
PS-9
DRESS 1153
VAV-ED-22
EDCRL- 35
EDCRL- 31
CORRIDOR 1120
DH-1-2-1
NL- 24
EDCRL- 33
EDCRL- 38
EDCRL- 36
DH-1-1-1
EQUIP STORAGE 1118
EXAM #03 1111
EDCRL- 10
EDCRL- 14
NL- 9
EDCRL- 11
EL-3
NL- 8
VAV-ED-10
NL- 22
EXAM #03 1113
LAB 1162
EDCRL- 25
PUBLIC TLT 1104
PUBLIC TLT 1103
EDCRL- 6
PS-6
EDCRL- 16
VAV-ED-9
VAV-ED-11
PAT TLT 1110
EDCRL- 17
NL- 15
EL-5
EL-21
VAV-ED-6
EDCRL- 30
EDCRL- 27
VAV-ED-5
PS-10
PS-11
PS-3
PS-2
STAFF LOUNGE 1166
VAV-ED-1
DCED
NL- 32
WP
CORRIDOR 1159
IMAGING OFFICE 1158
NURSE STATION 1157
IMEL- 4
AP-2
MAP-2
VAV-ED-24
IMEL- 2
NL2- 6
DCIM
CORRIDOR 1156
IMAGING WAITING 1168
NL2- 5
IMAGING TLT 1154
VAV-ED-23
SUB WAITING 1155
IMAGING STORAGE 1152
PS-13
PS-1
CT 1151
EDCRL2- 12
CT
XRAY
CONTROL 1150
EDCRL- 10
EDCRL- 34
CORRIDOR 1160
STAFF TLT 1161
NL- 25
NL- 33
DH-1-2-1
EDCRL2- 11
EXAM #04 1112
PAT TLT 1125
EDCRL2- 7
EDCRL2- 3
PS-4
CORRIDOR 1123
VAV-ED-13
AP-1, AP-3, MAP-1
CLEAN 1122
MEDS 1121
EDCRL- 39
EDCRL- 40
NL- 23
EDCRL- 21
EBS-1
CORRIDOR 1124
NURSE STATION 1117
AS-1

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOT SIZE

GENERAL POWER NOTES

A. REFER TO DRAWING EG001 FOR TYPICAL SYMBOLS AND ABBREVIATIONS USED IN THIS DRAWING.

B. CONFIRM RECEPTACLE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.

C. ALL RECEPTACLES WITHIN 6'-0" OF SINK SHALL BE OF THE GFCI TYPE.

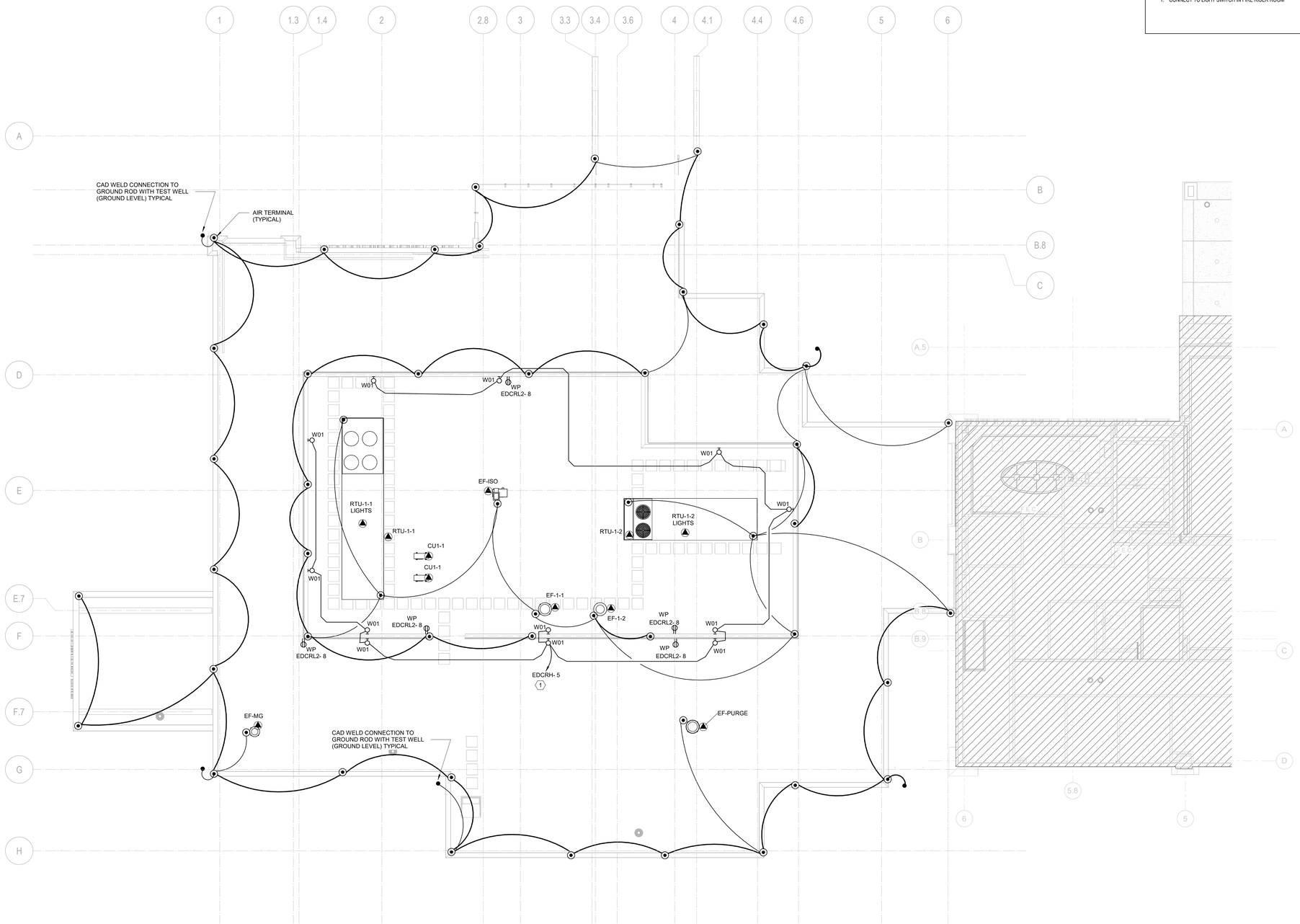
D. ALL RECEPTACLES IN PATIENT CARE AREAS SHALL BE HOSPITAL GRADE.

E. REVIEW THE CONSTRUCTION DOCUMENTS OF ALL TRADES FOR PHASING REQUIREMENTS.

F. CONNECT NEW LIGHTING PROTECTION DEVICES TO EXISTING PROTECTION SYSTEM

KEYNOTES

1. CONNECT TO LIGHT SWITCH IN FIRE RISER ROOM



1 ROOF PLAN - POWER

1/8" = 1'-0"

0 4' 8' 16'

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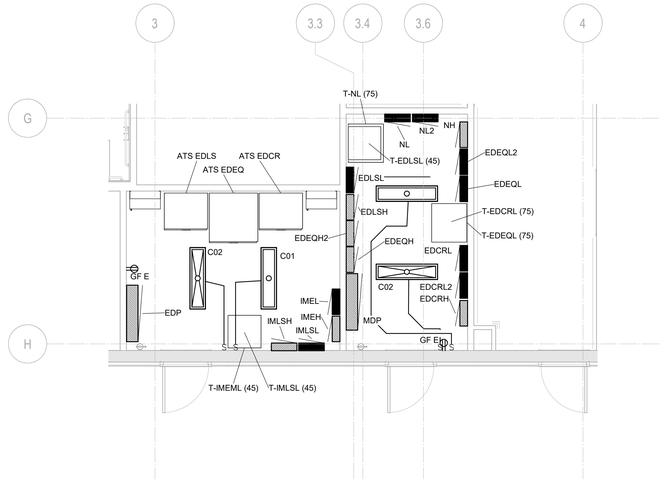
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EP1.02

ROOF PLAN - ELECTRICAL

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL PLOT SIZE



1 **ENLARGED ELECTRICAL ROOMS**

1/4" = 1'-0"

0 2' 4' 8'

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MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00 **HDG PROJECT NUMBER:** 24019

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 22886
7/16/2025
DONALD A. JONES

SOUTH CAROLINA QUALITY CONSULTING ENGINEERS, LLC No. 4298 CERTIFICATE OF AUTHORIZATION

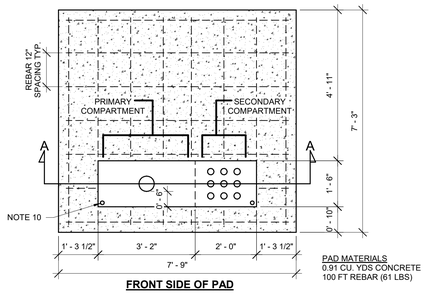
ORIG SUBMISSION: 07.03.2025
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SHEET TITLE AND NUMBER:

EE4.01

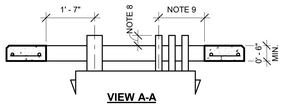
ENLARGED ELECTRICAL PLANS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PLOT SIZE



PAD MATERIALS
0.91 CU. YDS CONCRETE
100 FT REBAR (61 LBS)

FRONT SIDE OF PAD

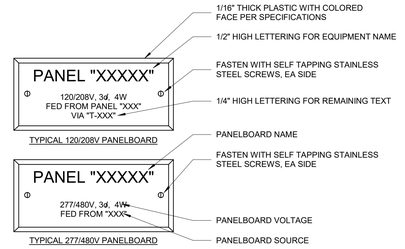


VIEW A-A

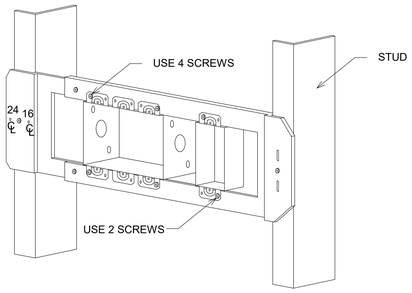
NOTES:

1. PAD IS TO BE SPOTTED BY THE POWER COMPANY REPRESENTATIVE BEFORE FORMING OR POURING CONCRETE. COORDINATE WITH POWER COMPANY FOR CLEARANCE AND ACCESS REQUIREMENTS.
2. PAD MUST BE BUILT TO DIMENSIONS GIVEN AND CONDUITS MUST BE INSTALLED CORRECTLY. OBTAIN FINAL DIMENSIONS FROM THE POWER COMPANY TO MATCH THE TRANSFORMER BEING PROVIDED.
3. PAD FOUNDATION MUST SUPPORT THE WEIGHT OF THE TRANSFORMER. IF SOIL CONDITION WILL NOT SUPPORT THE WEIGHT (POUNDS PER SQUARE FOOT), THEN THE AREA OF THE PAD MUST BE INCREASED, OR PILINGS INSTALLED TO MEET THE WEIGHT REQUIREMENTS.
4. STEEL REINFORCING REBAR SHALL BE INTERMEDIATE GRADE BILLET STEEL WITH 40,000 PSI MINIMUM YIELD STRENGTH.
5. CONCRETE OF PAD TO CONFORM TO CLASS A STRUCTURAL CONCRETE. SHALL HAVE 28-DAY STRENGTH OF 4000 PSI, CONTAIN NO MORE THAN 6 PERCENT ENTRAINED AIR AND HAVE NO LARGER THAN 1-INCH AGGREGATE MIXTURE.
6. LIMESTONE AGGREGATE IS NOT ACCEPTABLE. ALL OTHER CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH PORTLAND CEMENT STANDARD ASTM C150.
7. IF THE PAD LOCATION IS IN AN AREA SUBJECT TO FLOODING, IT MUST BE ELEVATED ABOVE WATER LINE.
8. CONDUITS MUST BE MINIMUM OF 1 INCH ABOVE FINISHED PAD, HOWEVER NOT MORE THAN 6 INCHES.
9. SECONDARY CONDUIT(S) MUST NOT BE INSTALLED MORE THAN 20 INCHES FROM RIGHT EDGE OF WINDOW. CONDUIT(S) EDGE SHOULD BE MINIMUM OF 2 INCHES FROM EDGE OF WINDOW OPENING.
10. PROVIDE AND MARK (2) SUITABLE LOCATIONS WITHIN WINDOW FOR INSTALLATION OF (2) 10-FOOT GROUND RODS. ONE LOCATED ON PRIMARY SIDE AND ONE ON SECONDARY SIDE.
11. CONDUIT WINDOW MUST BE OPEN. NO REBAR, FORMS, OR CONCRETE ALLOWED.
12. CONFIRM THAT SECONDARY FEEDER MEETS THE REQUIREMENTS FOR THE MAXIMUM NUMBER OF SECONDARY RUNS ALLOWED.

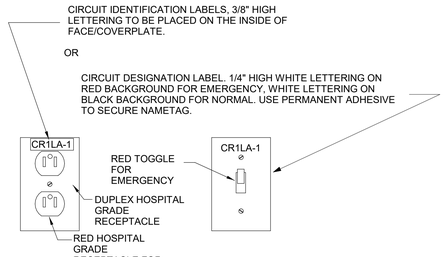
2 POWER COMPANY TRANSFORMER CONCRETE PAD DETAIL
NO SCALE



6 PANELBOARD NAMEPLATES
NO SCALE



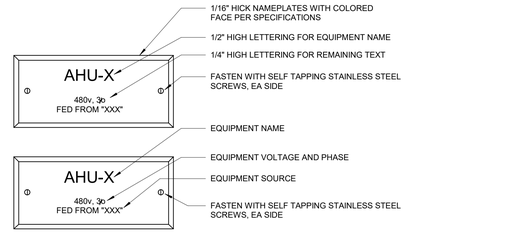
4 ELECTRICAL BOX MOUNTING DETAIL
NO SCALE



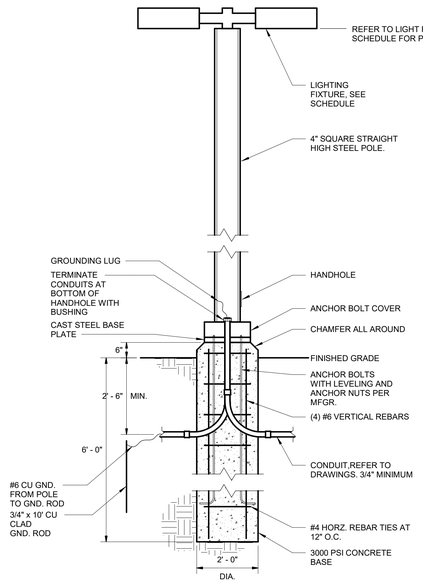
NOTE: ALL RECEPTACLES WHETHER DUPLEX OR QUADRAPLEX OR ANY OTHER NEMA CONFIGURATION SHALL BE LABELED.

ALL LIGHT SWITCHES SHALL BE LABELED

1 TYPICAL RECEPTACLE/SWITCH NAMEPLATE
NO SCALE

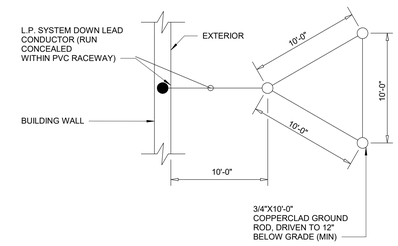


10 EQUIPMENT NAMEPLATES
NO SCALE

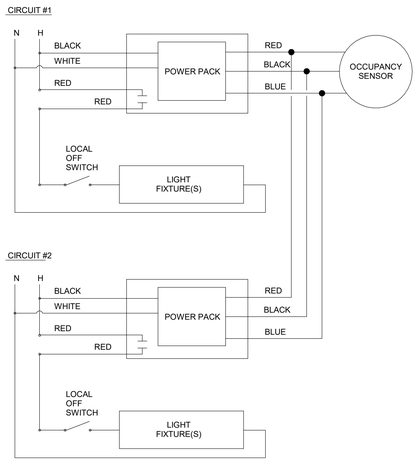


NOTES:
1. THE UNDERGROUND CONDUIT SERVING THE POLE SHALL BE A MINIMUM OF 3/4".

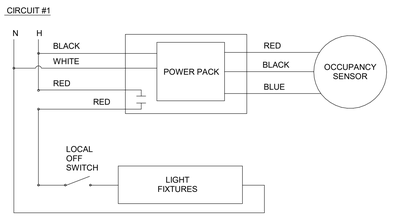
5 ELECTRICAL POLE LIGHT BASE DETAIL
N.T.S.



9 GROUNDING TRIAD DIAGRAM
NO SCALE



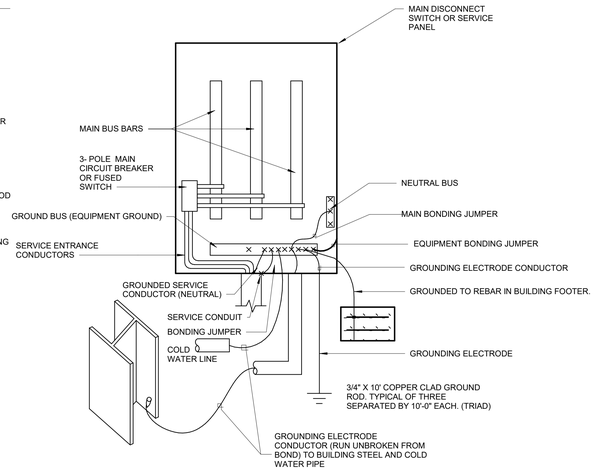
7 OCCUPANCY SENSOR WIRING - TWO CIRCUIT
NO SCALE



8 OCCUPANCY SENSOR WIRING - SINGLE CIRCUIT
NO SCALE

NOTES:

1. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE SIZED PER NEC, TABLE 250-122 AND 250-66. SEE ELECTRICAL PANEL SCHEDULES FOR SIZING REQUIREMENTS.
2. SYSTEM GROUND CONDUCTOR SHALL BE CONTINUOUS AND UNBROKEN, AND SHALL BE RUN BETWEEN BONDING POINTS ALONG THE SHORTEST POSSIBLE PATH.
3. THIS DETAIL DIAGRAMS THE PREFERRED METHOD OF ESTABLISHING A SYSTEM GROUND AND BONDING POINTS WITHIN A TYPICAL DISTRIBUTION SYSTEM ALL NEC APPROVED GROUNDING ELECTRODES AVAILABLE ON THE PROJECT SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.



3 SERVICE GROUNDING AND BONDING DETAIL
NO SCALE

ENVIRONMENTS FOR HEALTH **ARCHITECTURE**
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with Novant Health

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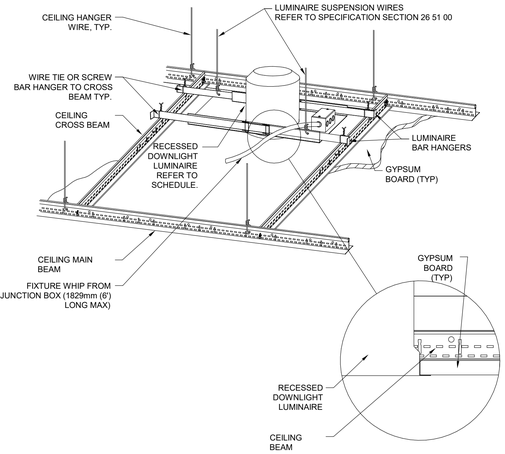
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EE5.01

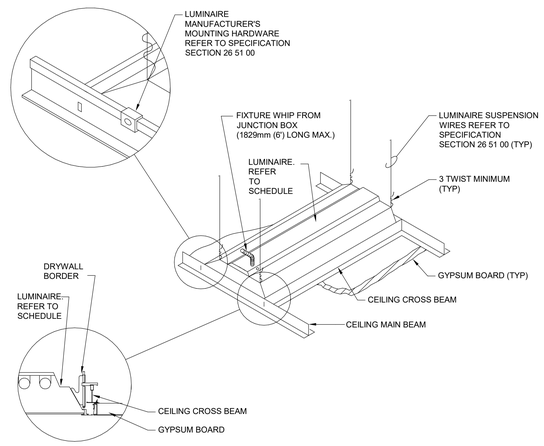
ELECTRICAL DETAILS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCH SHEETS



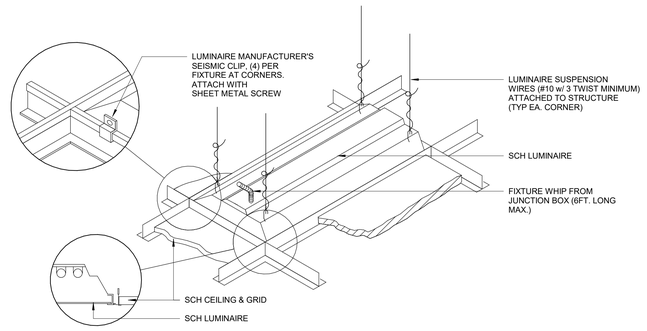
GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

5 DOWNLIGHT MOUNTING DETAIL - GYPSUM CEILING
NO SCALE

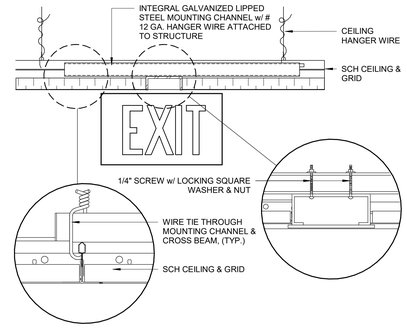


GENERAL NOTE:
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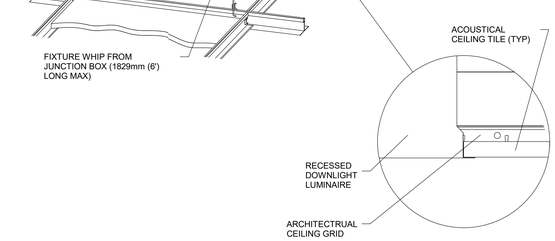
4 LUMINAIRE MOUNTING - GYPSUM CEILING
NO SCALE



1 LUMINAIRE MOUNTING - LAY-IN CEILING
NO SCALE



2 EXIT SIGN MOUNTING - LAY-IN CEILING
NO SCALE



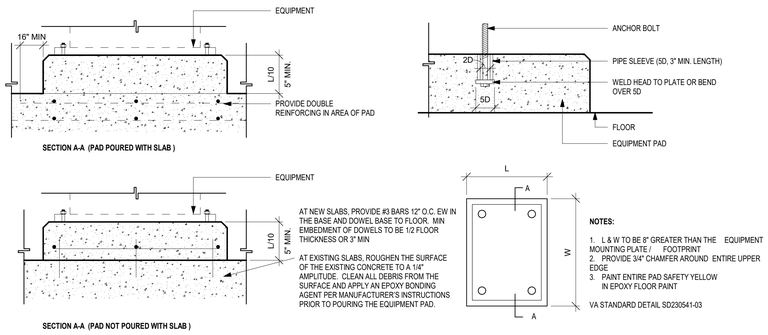
GENERAL NOTE:
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6 DOWNLIGHT MOUNTING DETAIL - LAY-IN CEILING
NO SCALE

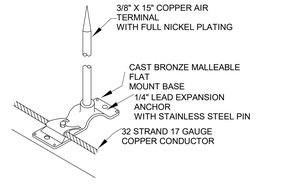


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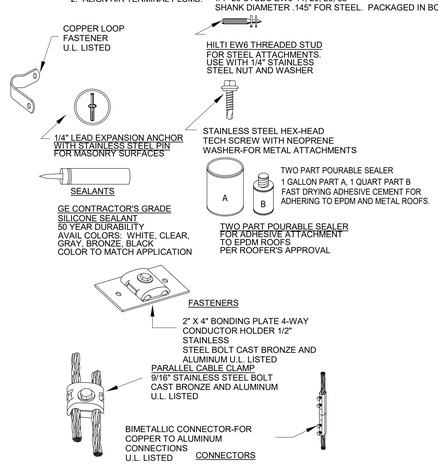
7 EXIT SIGN MOUNTING - GYPSUM CEILING
NO SCALE



8 EQUIPMENT PAD DETAIL
NO SCALE



NOTES: 1. ROUTE COPPER CONDUCTOR DOWN FROM CHIMNEY ON MOST INCONSPICUOUS CORNER.
2. ALIGN AIR TERMINAL PLUMB. 1/4"-20 STUDS EW6-11, 20, 28, 38 SHANK DIAMETER .145" FOR STEEL. PACKAGED IN BOXES OF 100.



3 LIGHTNING PROTECTION DETAILS
SCALE: NONE

ENVIRONMENTS FOR HEALTH ARCHITECTURE
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PROJECT NUMBER: 3024096.00 HDG PROJECT NUMBER: 24019

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SOUTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 22886 7/16/2025 DONALD A. JONES

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ORIG SUBMISSION: 07.03.2025
CURRENT:

SHEET TITLE AND NUMBER:

EE5.02

ELECTRICAL DETAILS

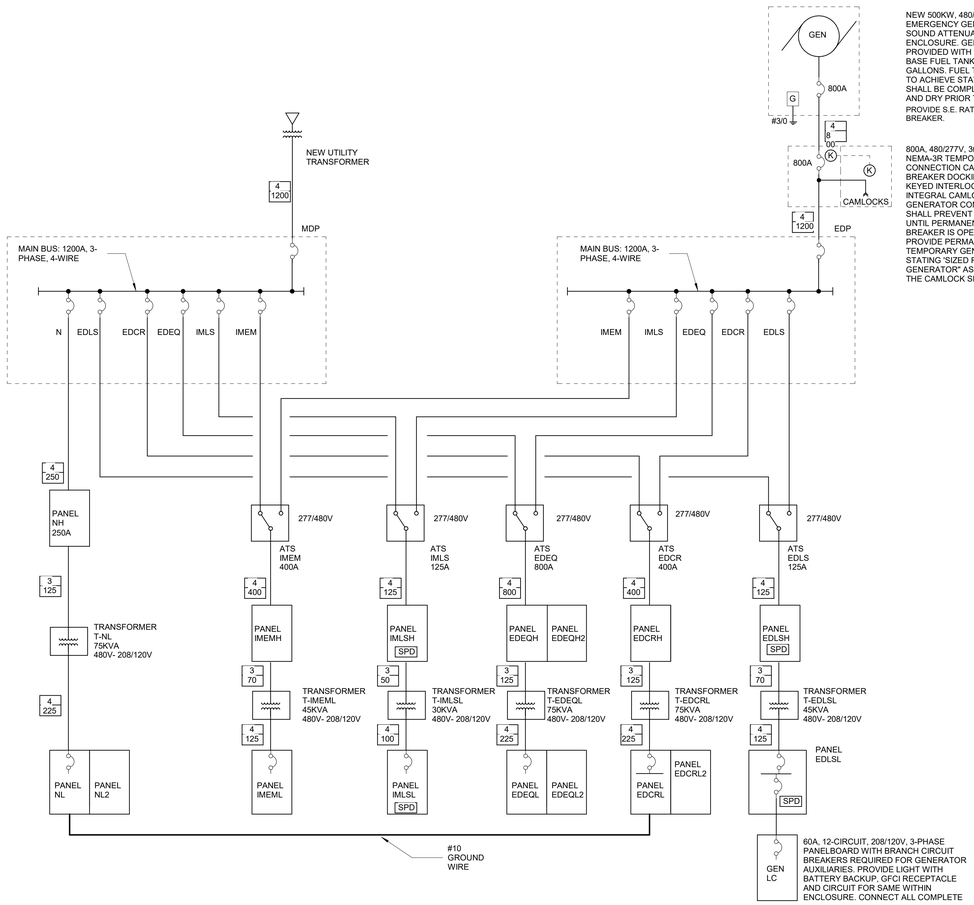
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL ARCH SHEETS

FEEDER LEGEND

	TOP ROW	BOTTOM ROW
	3 = 3 WIRE 4 = 4 WIRE	FEEDER SIZE

FEEDER SCHEDULE

3 PHASE	2 WIRE	CONDUIT SIZE
20	(2) - #12 & #12G	3/4"
30	(2) - #10 & #10G	3/4"
40	(2) - #8 & #10G	3/4"
50	(2) - #6 & #10G	1"
60	(2) - #6 & #10G	1"
70	(2) - #4 & #8G	1-1/4"
3 PHASE	**3 WIRE**	**CONDUIT SIZE**
20	(3) - #12 & #12G	3/4"
30	(3) - #10 & #10G	3/4"
40	(3) - #8 & #10G	3/4"
50	(3) - #6 & #10G	1"
60	(3) - #6 & #10G	1"
70	(3) - #4 & #8G	1-1/2"
80	(3) - #3 & #8G	1-1/2"
90	(3) - #3 & #8G	1-1/2"
100	(3) - #2 & #8G	1-1/2"
125	(3) - #1 & #8G	1-1/2"
150	(3) - 1/0 & #6G	2"
175	(3) - 2/0 & #6G	2"
200	(3) - 3/0 & #6G	2"
225	(3) - 4/0 & #4G	2-1/2"
250	(3) - 250KCMILS & #4G	2-1/2"
300	(3) - 350KCMILS & #4G	3"
350	(3) - 400KCMILS & #4G	3"
400	(3) - 500KCMILS & #3G	3"
450	2 RUNS (3) - 4/0 & #2G	3"
500	2 RUNS (3) - 250KCMILS & #2G	3"
600	2 RUNS (3) - 350KCMILS & 1G	3"
700	2 RUNS (3) - 500KCMILS & 1/0G	3"
800	2 RUNS (3) - 600KCMILS & 1/0G	4"
1000	3 RUNS (3) - 400KCMILS & 2/0G	4"
1200	3 RUNS (3) - 600KCMILS & 3/0G	4"
3 PHASE	**4 WIRE**	**CONDUIT SIZE**
20	(4) - #12 & #12G	3/4"
30	(4) - #10 & #10G	3/4"
40	(4) - #8 & #10G	3/4"
50	(4) - #6 & #10G	1"
60	(4) - #6 & #10G	1"
70	(4) - #4 & #8G	1-1/2"
80	(4) - #3 & #8G	1-1/2"
90	(4) - #3 & #8G	1-1/2"
100	(4) - #2 & #8G	1-1/2"
125	(4) - #1 & #8G	1-1/2"
150	(4) - 1/0 & #6G	2"
175	(4) - 2/0 & #6G	2"
200	(4) - 3/0 & #6G	2"
225	(4) - 4/0 & #4G	2-1/2"
250	(4) - 250KCMILS & #4G	2-1/2"
300	(4) - 350KCMILS & #4G	3"
350	(4) - 400KCMILS & #4G	3"
400	(4) - 500KCMILS & #3G	3"
450	2 RUNS (4) - 4/0 & #2G	3"
500	2 RUNS (4) - 250KCMILS & #2G	3"
600	2 RUNS (4) - 350KCMILS & #1G	3"
700	2 RUNS (4) - 500KCMILS & 1/0G	3"
800	2 RUNS (4) - 600KCMILS & 1/0G	4"
1000	3 RUNS (4) - 400KCMILS & 2/0G	4"
1200	3 RUNS (4) - 600KCMILS & 3/0G	4"



NEW 500KW, 480/277V, 3-PHASE, 4-WIRE EMERGENCY GENERATOR WITH LEVEL 2 SOUND ATTENUATION WALK-IN ENCLOSURE. GENERATOR SHALL BE PROVIDED WITH 96-HOUR RUNTIME SUB-BASE FUEL TANK. NOMINAL 3,476 GALLONS. FUEL TANK SHALL BE SIZED TO ACHIEVE STATED RUN-TIME. TANK SHALL BE COMPLETELY FREE OF WATER AND DRY PRIOR TO FILLING.

PROVIDE S.E. RATED, LSIG IN-LINE CIRCUIT BREAKER.

800A, 480/277V, 3Ø, 4-WIRE + G, 65KAIC, NEMA-3R TEMPORARY GENERATOR CONNECTION CABINET. SINGLE BREAKER DOCKING STATION WITH KEYED INTERLOCK. PROVIDE WITH INTEGRAL CAMLOCKS FOR TEMPORARY GENERATOR CONNECTION. INTERLOCK SHALL PREVENT ACCESS TO CAMLOCKS UNTIL PERMANENT GENERATOR BREAKER IS OPENED AND KEY REMOVED. PROVIDE PERMANENT METALLIC SIGN ON TEMPORARY GENERATOR CABINET STATING 'SIZED FOR 480/277V, 3Ø, 500KW GENERATOR" AS WELL AS THE SIZE OF THE CAMLOCK SIZES.

60A, 12-CIRCUIT, 208/120V, 3-PHASE PANELBOARD WITH BRANCH CIRCUIT BREAKERS REQUIRED FOR GENERATOR AUXILIARIES. PROVIDE LIGHT WITH BATTERY BACKUP, GFCI RECEPTACLE AND CIRCUIT FOR SAME WITHIN ENCLOSURE. CONNECT ALL COMPLETE

1 ELECTRICAL ONE-LINE DIAGRAM

1/2" = 1'-0"

PER NEC 230.2.C.1:
"WHERE THE CAPACITY REQUIREMENT ARE IN EXCESS OF 2000 AMPERES AT A SUPPLY OF 1000V OR LESS."

THE CURRENT LOAD ON THE EXISTING BUILDING IS 1933A AND THE NEW ADDITION WILL ADD 724A CAUSING THE OVER BUILDING SERVICE TO BE OVER 2000A. A SECOND SERVICE WILL BE REQUIRED.

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CURRENT:

SHEET TITLE AND NUMBER:

EE6.01

ELECTRICAL ONE-LINE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ORIGINAL ARCHITECTURAL SHEETS

EQUIPMENT CONNECTION SCHEDULE

EQUIP LABEL	LOAD DESCRIPTION	VOLTAGE	Ø	HP	KVA	AMPS	MOCP	EM PWR	STARTER INFORMATION				DISCONNECT INFORMATION			RATING	DISCONNECT INFORMATION		CIRCUIT ID	CIRCUIT BREAKER		WIRE SIZE (HN/G OR H/G)	CONDUIT SIZE	NOTES	EQUIP LABEL
									FURN	INSTALL	NEMA SIZE	TYPE	FURN	INSTALL	TYPE		POLES	FUSE SIZE		TRIP	POLES				
AC1-1/CU-1-1	MINI-SPLIT	208 V	1	NA	1.39 KVA	6.7 A	15 A	YES	NA	NA	NA	NA	D26	D26	NFS	30	3	NA	EDEQL - 7,9	15 A	2	2-#12, 1-#12, 1-#12	3/4"C	1,9	AC1-1/CU-1-1
AC1-2/CU-1-2	MINI-SPLIT	208 V	1	NA	1.39 KVA	6.7 A	15 A	YES	NA	NA	NA	NA	D26	D26	NFS	30	3	NA	EDEQL - 8,10	15 A	2	2-#12, 1-#12, 1-#12	3/4"C	1,9	AC1-2/CU-1-2
AP-1, AP-3, MAP-1, MAP-2	MED GAS PANELS	120 V	1	NA	0.24 KVA	2.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDLSL - 7	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	AP-1, AP-3, MAP-1, MAP-2
AP-2, MAP-2	MED GAS PANELS	120 V	1	NA	0.24 KVA	2.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	IMLSL - 1	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	AP-2, MAP-2
AS-1	BUILDING SIGNAGE	120 V	1	NA	1.20 KVA	0.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQL - 12	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	AS-1
AS-2	BUILDING SIGNAGE	120 V	1	NA	1.20 KVA	0.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQL - 14	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	AS-2
AS-3	BUILDING SIGNAGE	120 V	1	NA	1.20 KVA	0.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQL - 16	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	AS-3
AS-4	ROAD SIGNAGE	120 V	1	NA	1.20 KVA	0.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQL - 18	20 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	AS-4
BC-1	BATTERY CHARGER	120 V	1	NA	0.10 KVA	0.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	GEN PANEL - 2	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	BC-1
CATV	CABLE TV PANEL	120 V	0	NA	0.36 KVA	0.0 A		YES	NA	NA	NA	NA	D26	D26	5-20R QUAD	20	1	NA	EDCRL2 - 21	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	CATV
CT	CT MDU	480 V	3	NA	66.60 KVA	0.0 A		YES	NA	NA	NA	NA	EQUIP	D26	SEE NOTES	NA	3	NA	EDEQH - 8,10,12	125 A	3	3-#1, 1-#1, 1-#6	3/4"C	1,2	CT
DCED	DOOR CONTROLS - ED	120 V	1	NA	0.50 KVA	0.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDLSL - 7	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	DCED
DCIM	DOOR CONTROLS - IMAGING	120 V	1	NA	0.50 KVA	0.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	IMLSL - 2	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	DCIM
DH-1-1-1	DUCT HEATER	480 V	3	NA	35.00 kVA	42.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	EDEQH2 - 9,11,13	60 A	3	3-#4, 1-#10	3/4"C	1	DH-1-1-1
DH-1-1-2	DUCT HEATER	480 V	3	NA	35.00 kVA	42.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	EDEQH2 - 14,16,18	60 A	3	3-#4, 1-#10	3/4"C	1	DH-1-1-2
DH-1-2-1	DUCT HEATER	480 V	3	NA	40.00 kVA	48.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	IMEH - 16,18,20	70 A	3	3-#4, 1-#4, 1-#8	3/4"C	1	DH-1-2-1
EBS-1	EMS BASE STATION	120 V	1	NA	0.36 KVA	0.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDLSL - 9	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EBS-1
EF-1-1	EXHAUST FAN	480 V	3	3	3.99 KVA	4.8 A		YES	D23	D26	NA	VSMC	D23	D26	NFS	30	3	NA	EDEQH - 14,16,18	15 A	3	3-#12, 1-#12	3/4"C	1	EF-1-1
EF-1-2	EXHAUST FAN	480 V	3	1	1.66 KVA	2.1 A		YES	D23	D26	NA	VSMC	D23	D26	NFS	30	3	NA	EDCRH - 7,9,11	15 A	3	3-#12, 1-#12	3/4"C	1	EF-1-2
EF-ISO	EXHAUST FAN	480 V	3	1/4	1.66 KVA	0.1 A		YES	D23	D26	NA	VSMC	D23	D26	NFS	30	3	NA	EDEQH - 19,21,23	15 A	3	3-#12, 1-#12	3/4"C	1	EF-ISO
EF-MG	EXHAUST FAN	120 V	1	1/10	0.80 KVA	0.1 A		YES	D23	D26	NA	VSMC	D23	D26	MTS	20	1	NA	EDLSL - 4	15 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EF-MG
EF-PURGE	EXHAUST FAN	120 V	1	1/4	0.70 KVA	5.8 A		YES	D23	D26	NA	VSMC	D23	D26	NFS	30	1	NA	IMEL - 1	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EF-PURGE
EL-1	EXAM 1 EXAM LIGHT	120 V	1	NA	0.40 KVA	0.3 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 4	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EL-1
EL-2	EXAM 2 EXAM LIGHT	120 V	1	NA	0.40 KVA	0.3 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 6	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EL-2
EL-3	EXAM 3 EXAM LIGHT	120 V	1	NA	0.40 KVA	0.3 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 10	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EL-3
EL-4	EXAM 4 LIGHT	120 V	1	NA	0.00 KVA	0.3 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 12	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EL-4
EL-5	EXAM 5 LIGHT	120 V	1	NA	0.40 KVA	0.3 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 16	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EL-5
EL-ISO, PM-1, PS-7	ISO EXAM LIGHT, ROOM PRESSURE MONITOR, PLUMBING SENSOR	120 V	1	NA	0.50 KVA	0.3 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 18	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EL-ISO, PM-1, PS-7
EL-SE	SECURE EXAM LIGHT	120 V	1	NA	0.40 KVA	0.3 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 14	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EL-SE
EL-TA, PM-2	TRAUMA EXAM LIGHT, ROOM PRESSURE MONITOR	120 V	1	NA	0.40 KVA	0.3 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 19	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EL-TA, PM-2
EL-TR	TRIAGE EXAM LIGHT	120 V	1	NA	0.40 KVA	0.3 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 2	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	EL-TR
EWH-1	WATER HEATER	480 V	3	NA	12.00 kVA	14.4 A		YES	NA	NA	NA	NA	D26	D26	NFS	30	3	NA	EDEQH - 2,4,6	20 A	3	3-#12, 1-#12	3/4"C	1	EWH-1
EWH-2	WATER HEATER	480 V	3	NA	12.00 kVA	14.4 A		YES	NA	NA	NA	NA	D26	D26	NFS	30	3	NA	EDEQH - 7,9,11	20 A	3	3-#12, 1-#12	3/4"C	1	EWH-2
FSAC-1	FIRE PROTECTION AIR COMPRESSOR	120 V	1	1/3	0.01 kVA	0.1 A		YES	D21	D26	NA	NA	D26	D26	MTS	15	1	NA	EDLSL - 3	15 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	FSAC-1
FSD	FIRE SMOKE DAMPERS	120 V	1	NA	0.36 KVA	0.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDLSL - 5	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1, 8	FSD
HB-1	HOT BOX	120 V	1	NA	0.36 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQL - 17	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	HB-1
HT-1	HEAT TRACE	120 V	1	NA	0.36 KVA	0.1 A		YES	NA	NA	NA	NA	D26	D26	GFI 5-20R	20	1	NA	EDEQL - 3	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1, 6, 7	HT-1
IRR	IRRIGATION CONTROL PANEL	120 V	1	NA	0.02 KVA	0.1 A		NO	NA	NA	NA	NA	D26	D26	MTS	200	1	NA	<unnamed>	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1,5	IRR
IT-1	NETWORK RACK	120 V	1	NA	0.36 KVA	0.1 A		YES	NA	NA	NA	NA	D26	D26	5-20R QUAD	20	1	NA	EDCRL2 - 18	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1,5	IT-1
IT-2	NETWORK RACK	120 V	1	NA	0.36 KVA	0.1 A		YES	NA	NA	NA	NA	D26	D26	5-20R QUAD	20	1	NA	EDCRL2 - 19	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1,5	IT-2
IT-3	NETWORK RACK	120 V	1	NA	0.36 KVA	0.1 A		YES	NA	NA	NA	NA	D26	D26	5-20R QUAD	20	1	NA	EDCRL2 - 20	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1,5	IT-3
JC-1	JACKET HEATER	208 V	1	NA	3.00 kVA	14.4 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	GEN PANEL - 1,3	20 A	2	2-#12, 1-#12, 1-#12	3/4"C	1	JC-1
LCP	LIGHTING CONTACTOR PANEL	277 V	1	AN	0.02 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	AN	EDCRH - 3	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	LCP
MRI	MRI EQUIPMENT	480 V	3	NA	45.00 kVA	0.1 A		YES	NA	NA	NA	NA	EQUIP	D26	SEE NOTES	NA	1	NA	IMEH - 2,4,6	80 A	3	3-#3, 1-#3, 1-#3	3/4"C	1, 4	MRI
MRI-CH	MRI CHILLER	480 V	3	NA	0.36 KVA	0.1 A		YES	NA	NA	NA	NA	D26	D26	NFS	60	3	NA	IMEH - 13,15,17	60 A	3	3-#4, 1-#4, 1-#10	3/4"C	1, 6, 7	MRI-CH
NAC	FIRE ALARM CONTROL PANEL	120 V	1	NA	0.36 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDLSL - 11	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	NAC
NC-1	NURSE CALL PANEL	120 V	1	NA	0.36 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL2 - 15	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	NC-1
PA-1	PA SYSTEM	120 V	1	NA	0.36 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	NL2 - 8	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	PA-1
PS-1, PS-13	PLUMBING SENSOR	120 V	1	NA	0.05 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	IMEL - 3	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	PS-1, PS-13
PS-2, PS-3, PS-10, PS-11	PLUMBING SENSOR	120 V	1	NA	0.05 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL2 - 5	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	PS-2, PS-3, PS-10, PS-11
PS-4	PLUMBING SENSOR	120 V	1	NA	0.05 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL2 - 7	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	PS-4
PS-5	PLUMBING SENSOR	120 V	1	NA	0.05 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 30	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	PS-5
PS-6	PLUMBING SENSOR	120 V	1	NA	0.05 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL2 - 6	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	PS-6
PS-8	PLUMBING SENSOR	120 V	1	NA	0.05 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL2 - 9	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	PS-8
PS-9	PLUMBING SENSOR	120 V	1	NA	0.05 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL2 - 12	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	PS-9
RP-1	RECIRCULATING PUMP	120 V	1	1/10	0.02 KVA	0.1 A		YES	NA	NA	NA	NA	D26	D26	MTS	200	1	NA	EDEQL - 1	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	RP-1
RTU-1-1	ROOF TOP UNIT	480 V	3	NA	77.95 kVA	93.8 A	150 A	YES	EQUIP	EQUIP	NA	NA	EQUIP	EQUIP	NA	100	3	NA	EDEQH - 13,15,17	150 A	3	3-#1/0, 1-#6	3/4"C	1	RTU-1-1
RTU-1-1 LIGHTS		120 V	1		0.00 kVA	0.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL - 32	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	RTU-1-1 LIGHTS
RTU-1-2	ROOF TOP UNIT	480 V	3	NA	43.79 kVA	52.7 A	90 A	NO	EQUIP	EQUIP	NA	NA	EQUIP	EQUIP	NA	150	3	NA	NH - 5,7,9	90 A	3	3-#3, 1-#8	3/4"C	1	RTU-1-2
RTU-1-2 LIGHTS		120 V	1		0.00 kVA	0.0 A		NO	NA	NA	NA	AN	NA	NA	NA	NA	1	NA	NL2 - 10	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	RTU-1-2 LIGHTS
SC-1	SECURITY PANEL	120 V	1	NA	0.02 KVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDCRL2 - 17	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	SC-1
UH-1-1	UNIT HEATER	208 V	3	1/4	10.00 kVA	12.0 A		YES	NA	NA	NA	NA	D26	D26	NFS	60	3	NA	EDEQL - 11,13,15	35 A	3	3-#8, 1-#10	3/4"C	1	UH-1-1
VAV-ED-1	VAV	277 V	1	NA	5.00 kVA	18.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 26	25 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	VAV-ED-1
VAV-ED-2	VAV	277 V	1	NA	6.00 kVA	21.7 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 28	30 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	VAV-ED-2
VAV-ED-3	VAV	480 V	3	NA	12.50 kVA	15.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	EDEQH - 32,34,36	20 A	3	3-#12, 1-#12	3/4"C	1	VAV-ED-3
VAV-ED-4	VAV	277 V	1	NA	2.00 kVA	7.2 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 37	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-4
VAV-ED-5	VAV	277 V	1	NA	3.00 kVA	10.8 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 38	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-5
VAV-ED-6	VAV	277 V	1	NA	2.00 kVA	7.2 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 39	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-6
VAV-ED-7	VAV	277 V	1	NA	5.50 kVA	19.9 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 30	25 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	VAV-ED-7
VAV-ED-8	VAV	277 V	1	NA	5.50 kVA	18.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 31	25 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	VAV-ED-8
VAV-ED-9	VAV	277 V	1	NA	3.50 kVA	12.6 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH2 - 12	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-9
VAV-ED-10	VAV	277 V	1	NA	3.50 kVA	12.6 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH2 - 7	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-10
VAV-ED-11	VAV	277 V	1	NA	4.50 kVA	16.2 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 33	25 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	VAV-ED-11
VAV-ED-12	VAV	277 V	1	NA	2.50 kVA	9.0 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH2 - 8	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-12
VAV-ED-13	VAV	277 V	1	NA	3.50 kVA	12.6 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH2 - 10	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-13
VAV-ED-14	VAV	277 V	1	NA	7.00 kVA	25.3 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 35	35 A	1	1-#8, 1-#8, 1-#10	3/4"C	1	VAV-ED-14
VAV-ED-15	VAV	277 V	1	NA	6.00 kVA	18.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 40	25 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	VAV-ED-15
VAV-ED-16	VAV	277 V	1	NA	6.50 kVA	23.5 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 41	30 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	VAV-ED-16
VAV-ED-17	VAV	277 V	1	NA	4.50 kVA	16.2 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQH - 42	25 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	VAV-ED-17
VAV-ED-18	VAV	480 V	3	NA	13.00 kVA	15.6 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	EDEQH2 - 2,4,6	20 A	3	3-#12, 1-#12	3/4"C	1	VAV-ED-18
VAV-ED-19	VAV	480 V	3	NA	14.00 kVA	16.9 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	EDEQH2 - 1,3,5	30 A	3	3-#10, 1-#10	3/4"C	1	VAV-ED-19
VAV-ED-20	VAV	277 V	1	NA	4.50 kVA	16.2 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	IMEH - 10	25 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	VAV-ED-20
VAV-ED-21	VAV	277 V	1	NA	3.00 kVA	10.8 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	IMEH - 11	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-21
VAV-ED-22	VAV	277 V	1	NA	2.00 kVA	7.2 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	IMEH - 9	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-22
VAV-ED-23	VAV	277 V	1	NA	3.50 kVA	12.6 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	IMEH - 8	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-23
VAV-ED-24	VAV	277 V	1	NA	4.50 kVA	16.2 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	IMEH - 12	25 A	1	1-#10, 1-#10, 1-#10	3/4"C	1	VAV-ED-24
VAV-ED-25	VAV	120 V	3	NA	0.11 kVA	0.1 A		YES	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	EDEQL - 2	20 A	1	1-#12, 1-#12, 1-#12	3/4"C	1	VAV-ED-25
VP-1	MED VACUUM	480 V	3	(2) 2	4.52 kVA	6.8 A		YES	EQUIP	EQUIP	NA	NA	D26	D26	NFS	30	3	NA	EDEQH - 1,3,5	20 A	3	3-#12, 1-#12	3/4"C	1	VP-1
XRAY	XRAY EQUIPMENT	480 V	3	NA	30.00 kVA	36.1 A	80 A	YES	NA	NA	NA	NA	D26	D26	ECB	80	3	NA	EDEQH - 20,22,24	80 A	3	3-#3, 1-#3, 1-#8	3/4"C	1,3	XRAY

NOTES:

1. DIVISION 26 TO MAKE FINAL CONNECTIONS.
2. EQUIPMENT PROVIDED MDU DISCONNECT PANEL. PROVIDE DEDICATED 1/0 INSULATED COPPER GROUND WIRE FROM THE POWER SOURCE TO MDP, AND FROM THE MDP AND PDU
3. PROVIDE SHUNT TRIP KIT
4. EQUIPMENT PROVIDED MDU DISCONNECT PANEL.
5. RECEPTACLE ATTACHED TO LADDER RACK SEE TECHNOLOGY DRAWINGS FOR MORE INFORMATION
6. COORDINATE EXACT LOCATION IN FIELD WHEM UNIT IS INSTALLED
7. PROVIDE WEATHER PROOF ENCLOSURE
8. PROVIDE RED FIRE ALARM BREAKER
9. PROVIDE 120V MTS FOR INTERIOR AC UNIT DISCONNECT

ABBREVIATIONS

VSMC	VARIABLE SPEED MOTOR CONTROLLER (VFD)
FS	FUSIBLE SWITCH
NFS	NON-FUSIBLE SWITCH
EQUIP	FURNISHED WITH EQUIPMENT
D23	DIVISION 23
D26	DIVISION 26
MTS	MOTOR RATED TOGGLE SWITCH
TS	TOGGLE SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
MOCB	MAGNETIC-ONLY CIRCUIT BREAKER
MC	MAGNETIC CONTACTOR
MF	MANUFACTURER RECOMMENDED FUSE SIZE
N/A	NOT APPLICABLE
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVERCURRENT PROTECTION
FURN	FURNISHED
INST	INSTALLED
HP	HORSEPOWER
KVA	KILO-VOLT-AMPS
EXIST	EXISTING

ENVIRONMENTS FOR HEALTH ARCHITECTURE
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CMC Socastee FSED
6016 HIGHWAY 707
MYRTLE BEACH, SC

PROJECT NUMBER: 3024096.00
HDG PROJECT NUMBER: 24019

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22886 7/16/2025 DONALD A. JONES

SOUTH CAROLINA QUALITY CONSULTING ENGINEERS, LLC No. 4298 CERTIFICATE OF AUTHORIZATION

ORIG SUBMISSION: 07.03.2025
CURRENT:

SHEET TITLE AND NUMBER:

EE7.01

ELECTRICAL CONNECTION SCHEDULE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 30" X 42" SHEETS ONE HALF INCH AT 15" X 21"

EDLSH

SERVED FROM: ATS EDLS
LOCATION: ELEC 1139
MOUNTING: SURFACE
AMPERE RATING: 125 A
MAIN TYPE: MCB
LUG OPTIONS:
VOLTAGE (L-L): 480 V
VOLTAGE (L-N): 277 V
PHASE: 3
WIRE: 4
MIN. KAIC: 22

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	EMERGENCY/EGRESS...	L	1-#12, 1-#12, 1-#12	3/4"C	0.9	2.3											2
3	20 A	1	EXTERIOR LIGHTING	L	1-#12, 1-#12, 1-#12	3/4"C			0.1	1.9			1 1/4"C	3-#4, 1-#8		T-EDLSL (45)	3	70 A	4
5	20 A	1	Spare	--	--	3/4"C					0.0	0.9							6
7	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	8
9	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	10
11	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	12
13	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	14
15	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	16
17	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	18
19	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	20
21	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	24
						TOTAL LOAD :	3.2 kVA		2.0 kVA		0.9 kVA								
						TOTAL AMPS :	12 A		8 A		3 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	0.00 kVA		0.00%		0.00 kVA
D - OTHER HVAC LOADS	0.00 kVA		0.00%		0.00 kVA
H - SPACE HEATING	0.00 kVA		0.00%		0.00 kVA
L - GENERAL LIGHTING	0.61 kVA		125.00%		0.76 kVA
M - MISC. CONTINUOUS	0.00 kVA		0.00%		0.00 kVA
N - MISC. NONCONTINUOUS	4.93 kVA		65.00%		3.20 kVA
R - RECEPTACLES	0.18 kVA		100.00%		0.18 kVA

PANEL TOTALS	
CONNECTED LOAD (KVA):	6.12 kVA
DEMAND LOAD (KVA):	4.65 kVA
DEMAND AMPS:	7 A
TOTAL:	6 A
+RESERVED FUTURE CAPACITY	1 A
TOTAL UNBALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD:	7 A
MIN NEC ART.220 REQUIRED OVERCURENT PROTECTION:	40 A

EDLSL

SERVED FROM: T-EDLSL (45)
LOCATION: ELEC 1139
MOUNTING: SURFACE
AMPERE RATING: 125 A
MAIN TYPE: MCB
LUG OPTIONS:
VOLTAGE (L-L): 208 V
VOLTAGE (L-N): 120 V
PHASE: 3
WIRE: 4
MIN. KAIC: 10

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	AP-1, AP-3, MAP-1, MAP-2	N	1-#12, 1-#12, 1-#12	3/4"C	0.2	1.6											2
3	15 A	1	FSAC-1	N	1-#12, 1-#12, 1-#12	3/4"C			0.0	1.5			1 1/4"C	3-#4, 1-#4, 1-#10		GEN PANEL	3	60 A	4
5	20 A	1	FSDS	N	1-#12, 1-#12, 1-#12	3/4"C					0.4	0.0							6
7	20 A	1	DCED	N	1-#12, 1-#12, 1-#12	3/4"C	0.5	0.0					3/4"C	--	--	Spare	1	20 A	8
9	20 A	1	EBS-1	N	1-#12, 1-#12, 1-#12	3/4"C			0.4	0.0			3/4"C	--	--	Spare	1	20 A	10
11	20 A	1	NAC *	N	1-#12, 1-#12, 1-#12	3/4"C					0.5	0.0	3/4"C	--	--	Spare	1	20 A	12
13	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	14
15	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	16
17	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	18
19	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	20
21	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	24
						TOTAL LOAD :	2.3 kVA		1.9 kVA		0.9 kVA								
						TOTAL AMPS :	21 A		17 A		8 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	0.00 kVA		0.00%		0.00 kVA
D - OTHER HVAC LOADS	0.00 kVA		0.00%		0.00 kVA
H - SPACE HEATING	0.00 kVA		0.00%		0.00 kVA
L - GENERAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
M - MISC. CONTINUOUS	0.00 kVA		0.00%		0.00 kVA
N - MISC. NONCONTINUOUS	4.93 kVA		65.00%		3.20 kVA
R - RECEPTACLES	0.18 kVA		100.00%		0.18 kVA

PANEL TOTALS	
CONNECTED LOAD (KVA):	5.11 kVA
DEMAND LOAD (KVA):	3.38 kVA
DEMAND AMPS:	14 A
TOTAL:	9 A
+RESERVED FUTURE CAPACITY	2 A
TOTAL UNBALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD:	12 A
MIN NEC ART.220 REQUIRED OVERCURENT PROTECTION:	50 A

* - provide red lockable in on position

EDEQH (SECTION 1)

SERVED FROM: ATS EDEQ
LOCATION: ELEC 1139
MOUNTING: SURFACE
AMPERE RATING: 800 A
MAIN TYPE: MCB
LUG OPTIONS: FEED THRU
VOLTAGE (L-L): 480 V
VOLTAGE (L-N): 277 V
PHASE: 3
WIRE: 4
MIN. KAIC: 22

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1							1.5	4.0											2
3	20 A	3	VP-1	N	3-#12, 1-#12	3/4"C			1.5	4.0			3/4"C	3-#12, 1-#12	N	EWH-1	3	20 A	4
5											1.5	4.0							6
7							4.0	22.2											8
9	20 A	3	EWH-2	N	3-#12, 1-#12	3/4"C			4.0	22.2			2"C	3-#1, 1-#1, 1-#6	N	CT	3	125 A	10
11											4.0	22.2							12
13							26.0	1.3											14
15	150 A	3	RTU-1-1	C	3-#1/0, 1-#6	2"C			26.0	1.3			3/4"C	3-#12, 1-#12	N	EF-1-1	3	15 A	16
17											26.0	1.3							18
19							0.6	10.0											20
21	15 A	3	EF-ISO	D	3-#12, 1-#12	3/4"C			0.6	10.0			1 1/4"C	3-#3, 1-#3, 1-#8	N	XRAY	3	80 A	22
23											0.6	10.0							24
25							6.1	5.0					3/4"C	1-#10, 1-#10, 1-#10		VAV-ED-1	1	25 A	26
27	125 A	3	T-EDEQL (75)		3-#1, 1-#6	2"C			7.1	6.0			3/4"C	1-#10, 1-#10, 1-#10		VAV-ED-2	1	30 A	28
29											6.1	5.5	3/4"C	1-#10, 1-#10, 1-#10		VAV-ED-7	1	25 A	30
31	25 A	1	VAV-ED-8		1-#10, 1-#10, 1-#10	3/4"C	5.5	4.2											32
33	25 A	1	VAV-ED-11		1-#10, 1-#10, 1-#10	3/4"C			4.5	4.2			3/4"C	3-#12, 1-#12	N	VAV-ED-3	3	20 A	34
35	35 A	1	VAV-ED-14		1-#8, 1-#8, 1-#10	3/4"C					7.0	4.2							36
37	20 A	1	VAV-ED-4	N	1-#12, 1-#12, 1-#12	3/4"C	2.0	3.0					3/4"C	1-#12, 1-#12, 1-#12	N	VAV-ED-5	1	20 A	38
39	20 A	1	VAV-ED-6	N	1-#12, 1-#12, 1-#12	3/4"C			2.0	6.0			3/4"C	1-#10, 1-#10, 1-#10		VAV-ED-15	1	25 A	40
41	30 A	1	VAV-ED-16		1-#10, 1-#10, 1-#10	3/4"C					6.5	4.5	3/4"C	1-#10, 1-#10, 1-#10		VAV-ED-17	1	25 A	42
						TOTAL LOAD :	133.6 kVA		135.2 kVA		139.2 kVA								
						TOTAL AMPS :	482 A		489 A		503 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	77.95 kVA		0.75%		0.58 kVA
D - OTHER HVAC LOADS	6.45 kVA		0.75%		0.05 kVA
H - SPACE HEATING	86.28 kVA		125.00%		107.85 kVA
L - GENERAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
M - MISC. CONTINUOUS	28.80 kVA		100.00%		28.80 kVA
N - MISC. NONCONTINUOUS	208.47 kVA		65.00%		135.51 kVA
R - RECEPTACLES	0.00 kVA		0.00%		0.00 kVA

PANEL TOTALS	
CONNECTED LOAD (KVA):	407.95 kVA
DEMAND LOAD (KVA):	272.79 kVA
DEMAND AMPS:	491 A
TOTAL:	328 A
+RESERVED FUTURE CAPACITY	82 A
TOTAL UNBALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD:	410 A
MIN NEC ART.220 REQUIRED OVERCURENT PROTECTION:	600 A

EDEQH2 (SECTION 2)

SERVED FROM: EDEQH
LOCATION: ELEC 1139
MOUNTING: SURFACE
AMPERE RATING: 800 A
MAIN TYPE: MCB
LUG OPTIONS:
VOLTAGE (L-L): 480 V
VOLTAGE (L-N): 277 V
PHASE: 3
WIRE: 4
MIN. KAIC: 22

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1							4.7	4.3											2
3	30 A	3	VAV-ED-19	N	3-#10, 1-#10	3/4"C			4.7	4.3			3/4"C	3-#12, 1-#12	N	VAV-ED-18	3	20 A	4
5											4.7	4.3							6
7	20 A	1	VAV-ED-10	N	1-#12, 1-#12, 1-#12	3/4"C	3.5	2.5					3/4"C	1-#12, 1-#12, 1-#12	N	VAV-ED-12	1	20 A	8
9									11.7	3.5			3/4"C	1-#12, 1-#12, 1-#12	N	VAV-ED-13	1	20 A	10
11	60 A	3	DH-1-1	H	3-#4, 1-#10	1 1/4"C					11.7	3.5	3/4"C	1-#12, 1-#12, 1-#12	N	VAV-ED-9	1	20 A	12
13							11.7	11.7											14
15									11.7				1 1/4"C	3-#4, 1-#10	H	DH-1-1-2	3	60 A	16
17											11.7								18
19									0.0				3/4"C	--	--	Spare	1	20 A	20
21	20 A	1	Spare	--	--	3/4"C							3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	24
25	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	26
27	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	28
29	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	30
31	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	32
33	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	34
35	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	36
37	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	38
39	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	40
41	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	42
						TOTAL LOAD :	38.3 kVA		35.8 kVA		35.8 kVA								
						TOTAL AMPS :	138 A		129 A		129 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	0.00 kVA		0.00%		0.00 kVA
D - OTHER HVAC LOADS	0.00 kVA		0.00%		0.00 kVA
H - SPACE HEATING	73.50 kVA		125.00%		91.88 kVA
L - GENERAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
M - MISC. CONTINUOUS	0.00 kVA		0.00%		0.00 kVA
N - MISC. NONCONTINUOUS	36.50 kVA		65.00%		23.73 kVA
R - RECEPTACLES	0.00 kVA		0.00%		0.00 kVA

PANEL TOTALS	
CONNECTED LOAD (KVA):	110.00 kVA
DEMAND LOAD (KVA):	115.60 kVA
DEMAND AMPS:	132 A
TOTAL:	139 A
+RESERVED FUTURE CAPACITY	35 A
TOTAL UNBALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD:	174 A
MIN NEC ART.220 REQUIRED OVERCURENT PROTECTION:	400 A

EDEQL2 (SECTION 2)

SERVED FROM: EDEQL
LOCATION: ELEC 1139
MOUNTING: SURFACE
AMPERE RATING: 225 A
MAIN TYPE: MCB
LUG OPTIONS:
VOLTAGE (L-L): 208 V
VOLTAGE (L-N): 120 V
PHASE: 3
WIRE: 4
MIN. KAIC: 10

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	2
3	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	4
5	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	6
7	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	8
9	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	10
11	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	12
13	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	14
15	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	16
17	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	18
19	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	20
21	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	24
25	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	26
27	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	28
29	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	30
31	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	32
33	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	34
35	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	36
37	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	38
39	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	40
41	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	42
						TOTAL LOAD :	0.0 kVA		0.0 kVA		0.0 kVA								
						TOTAL AMPS :	0 A		0 A		0 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	0.00 kVA		0.00%		0.00 kVA
D - OTHER HVAC LOADS	0.00 kVA		0.00%		0.00 kVA
H - SPACE HEATING	0.00 kVA		0.00%		0.00 kVA
L - GENERAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
M - MISC. CONTINUOUS	0.00 kVA		0.00%		0.00 kVA
N - MISC. NONCONTINUOUS	0.00 kVA		0.00%		0.00 kVA
R - RECEPTACLES	0.00 kVA		0.00%		0.00 kVA

PANEL TOTALS	
CONNECTED LOAD (KVA):	0.00 kVA
DEMAND LOAD (KVA):	0.00 kVA
DEMAND AMPS:	0 A
TOTAL:	0 A
+RESERVED FUTURE CAPACITY	0 A
TOTAL UNBALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD:	0 A
MIN NEC ART.220 REQUIRED OVERCURENT PROTECTION:	60 A

EDEQL (SECTION 1)

SERVED FROM: T-EDEQL (75)
LOCATION: ELEC 1139
MOUNTING: SURFACE
AMPERE RATING: 225 A
MAIN TYPE: MCB
LUG OPTIONS: FEED THRU
VOLTAGE (L-L): 208 V
VOLTAGE (L-N): 120 V
PHASE: 3
WIRE: 4
MIN. KAIC: 10

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	RP-1	N	1-#12, 1-#12, 1-#12	3/4"C	0.0	0.1					3/4"C	1-#12, 1-#12, 1-#12		VAV-ED-25	1	20 A	2
3	20 A	1	HT-1		1-#12, 1-#12, 1-#12	3/4"C			0.4	0.8			3/4"C	1-#12, 1-#12, 1-#12		EF-MG	1	15 A	4
5																			6
7	15 A	2	AC1-1/CU-1-1	H	2-#12, 1-#12, 1-#12	3/4"C	0.7	0.7					3/4"C	2-#12, 1-#12, 1-#12	C	AC1-2/CU-1-2	2	15 A	8
9									0.7	0.7									10
11											3.3	1.2	3/4"C	1-#12, 1-#12, 1-#12		AS-1	1	20 A	12
13	35 A	3	UH-1-1	H	3-#8, 1-#10	3/4"C	3.3	1.2					3/4"C	1-#12, 1-#12, 1-#12	M	AS-2	1	20 A	14
15									3.3	1.2			3/4"C	1-#12, 1-#12, 1-#12	M	AS-3	1	20 A	16
17	20 A	1	HB-1	R	1-#12, 1-#12, 1-#12	3/4"C					0.4	1.2	3/4"C	1-#10, 1-#10, 1-#10	M	AS-4	1	20 A	18
19							0.0						3/4"C	--	--	Spare	1	20 A	20
21	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	24
25	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	26
27	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	28
29	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	30
31	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	32
33	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	34
35	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	36
37	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	38
39	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	40
41	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	42
						TOTAL LOAD :	6.1 kVA		7.1 kVA		6.1 kVA								
						TOTAL AMPS :	50 A		59 A		51 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	0.00 kVA		0.00%		0.00 kVA
D - OTHER HVAC LOADS	0.80 kVA		0.75%		0.01 kVA
H - SPACE HEATING	12.78 kVA		125.00%		15.98 kVA
L - GENERAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
M - MISC. CONTINUOUS	4.80 kVA		100.00%		4.80 kVA
N - MISC. NONCONTINUOUS	0.85 kVA		65.00%		0.55 kVA
R - RECEPTACLES	0.00 kVA		0.00%		0.00 kVA

PANEL TOTALS	
CONNECTED LOAD (KVA):	19.23 kVA
DEMAND LOAD (KVA):	21.33 kVA
DEMAND AMPS:	53 A
TOTAL:	59 A
+RESERVED FUTURE CAPACITY	15 A
TOTAL UNBALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD:	74 A
MIN NEC ART.220 REQUIRED OVERCURENT PROTECTION:	125 A

GEN PANEL

SERVED FROM: EDLSL
LOCATION:
MOUNTING: SURFACE
AMPERE RATING: 60 A
MAIN TYPE: MCB
LUG OPTIONS:
VOLTAGE (L-L): 208 V
VOLTAGE (L-N): 120 V
PHASE: 3
WIRE: 4
MIN. KAIC: 10

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1																			
3	20 A	2	JC-1	N	2-#12, 1-#12, 1-#12	3/4"C	1.5	0.1					3/4"C	1-#12, 1-#12, 1-#12	N	BC-1	1	20 A	2
5									1.5	0.0			3/4"C	--	--	Spare	1	20 A	4
7	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	6
9	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	8
11	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	10
						TOTAL LOAD :	1.6 kVA		1.5 kVA		0.0 kVA								
						TOTAL AMPS :	15 A		14 A		0 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT ALL SHEETS ORIGINAL PLOT SIZE

EDCRH

SERVED FROM: ATS EDCR
LOCATION: ELEC 1139
MOUNTING: SURFACE

AMPERE RATING: 400 A
MAIN TYPE: MCB
LUG OPTIONS:

VOLTAGE (L-L): 480 V
VOLTAGE (L-N): 277 V

PHASE: 3
WIRE: 4
MIN. KAIC: 22

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	EMERGENCY LIGHTS	L	1-#12, 1-#12, 1-#12	3/4"C	3.0	12.7											2
3	20 A	1	LCP		1-#12, 1-#12, 1-#12	3/4"C			0.0	12.4			2"C	3-#1,1-#6		T-EDCRL (75)	3	125 A	4
5	20 A	1	ROOF LIGHTS		1-#12, 1-#12, 1-#12	3/4"C					0.4	10.5							6
7							0.6	0.0					3/4"C	--	--	Spare	1	20 A	8
9	15 A	3	EF-1-2		3-#12, 1-#12	3/4"C			0.6	0.0			3/4"C	--	--	Spare	1	20 A	10
11											0.6	0.0	3/4"C	--	--	Spare	1	20 A	12
13	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	14
15	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	16
17	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	18
19	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	20
21	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	24
					TOTAL LOAD :		16.3 kVA		13.0 kVA		11.4 kVA								
					TOTAL AMPS :		60 A		48 A		41 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	0.00 kVA		0.00%		0.00 kVA
D - OTHER HVAC LOADS	1.66 kVA		0.75%		0.01 kVA
H - SPACE HEATING	0.00 kVA		0.00%		0.00 kVA
L - GENERAL LIGHTING	2.70 kVA		125.00%		3.38 kVA
M - MISC. CONTINUOUS	0.00 kVA		0.00%		0.00 kVA
N - MISC. NONCONTINUOUS	5.04 kVA		65.00%		3.28 kVA
R - RECEPTACLES	30.60 kVA		66.34%		20.30 kVA

PANEL TOTALS

CONNECTED LOAD (KVA):	40.64 kVA
DEMAND LOAD (KVA):	27.76 kVA
DEMAND AMPS:	49 A
TOTAL:	33 A
+RESERVED FUTURE CAPACITY	8 A
TOTAL UNBALANCED 3 PHASE NEC	
ART. 220 FEEDER SIZING LOAD:	42 A
MIN NEC ART.220 REQUIRED	
OVERCURENT PROTECTION:	150 A

NH

SERVED FROM: MDP
LOCATION: ELEC 1139
MOUNTING: SURFACE

AMPERE RATING: 250 A
MAIN TYPE: MCB
LUG OPTIONS:

VOLTAGE (L-L): 480 V
VOLTAGE (L-N): 277 V

PHASE: 3
WIRE: 4
MIN. KAIC: 35

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	OFFICE EXAM LIGHTS	L	1-#12, 1-#12, 1-#12	3/4"C	2.4	1.5					3/4"C	1-#12, 1-#12, 1-#12	L	L - GENERAL LIGHTING	1	20 A	2
3											0.4		3/4"C	1-#12, 1-#12, 1-#12	L	L - GENERAL LIGHTING	1	20 A	4
5																			6
7	90 A	3	RTU-1-2	C	3-#3, 1-#8	1 1/4"C	14.6	13.1					14.6	12.4					8
9									14.6	12.6			2"C	3-#1,1-#6		T-NL (75)	3	125 A	8
11	20 A	1	Spare	--	--	3/4"C					0.0	0.0							10
13	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	12
15	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	14
17	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	16
19	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	18
21	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	20
23	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	22
					TOTAL LOAD :		31.6 kVA		27.6 kVA		27.0 kVA								24
					TOTAL AMPS :		114 A		100 A		98 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	43.79 kVA		0.75%		0.33 kVA
D - OTHER HVAC LOADS	0.00 kVA		0.00%		0.00 kVA
H - SPACE HEATING	0.00 kVA		0.00%		0.00 kVA
L - GENERAL LIGHTING	3.82 kVA		125.00%		4.78 kVA
M - MISC. CONTINUOUS	0.00 kVA		0.00%		0.00 kVA
N - MISC. NONCONTINUOUS	0.36 kVA		65.00%		0.23 kVA
R - RECEPTACLES	37.80 kVA		63.23%		23.90 kVA

PANEL TOTALS

CONNECTED LOAD (KVA):	86.21 kVA
DEMAND LOAD (KVA):	29.79 kVA
DEMAND AMPS:	104 A
TOTAL:	36 A
+RESERVED FUTURE CAPACITY	9 A
TOTAL UNBALANCED 3 PHASE NEC	
ART. 220 FEEDER SIZING LOAD:	45 A
MIN NEC ART.220 REQUIRED	
OVERCURENT PROTECTION:	100 A

EDCRL (SECTION 1)

SERVED FROM: T-EDCRL (75)
LOCATION: ELEC 1139
MOUNTING: SURFACE

AMPERE RATING: 225 A
MAIN TYPE: MCB
LUG OPTIONS: FEED THRU

VOLTAGE (L-L): 208 V
VOLTAGE (L-N): 120 V

PHASE: 3
WIRE: 4
MIN. KAIC: 10

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	EMBULANCE BAY...	R	1-#12, 1-#12, 1-#12	3/4"C	0.4	1.3					3/4"C	1-#12, 1-#12, 1-#12	R	EL-TR, TRIAGE...	1	20 A	2
3	20 A	1	TRIAGE HEADWALL	R	1-#12, 1-#12, 1-#12	3/4"C			0.9	1.1			3/4"C	1-#12, 1-#12, 1-#12	R	EL-1, EXAM 1 EM...	1	20 A	4
5	20 A	1	EXAM 1 HEAD WALL EM...	R	1-#12, 1-#12, 1-#12	3/4"C					0.9	0.9	3/4"C	1-#12, 1-#12, 1-#12	R	EL-2, EXAM 2 EM...	1	20 A	6
7	20 A	1	EXAM 2 HEAD WALL EM...	R	1-#12, 1-#12, 1-#12	3/4"C	0.9	0.5					3/4"C	1-#12, 1-#12, 1-#12	R	R - RECEPTACLES	1	20 A	8
9	20 A	1	R - RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C			0.5	0.9			3/4"C	1-#12, 1-#12, 1-#12	R	EL-3, EXAM 3 RECEPTACLE	1	20 A	10
11	20 A	1	EXAM 3 HEADWALL EM...	R	1-#12, 1-#12, 1-#12	3/4"C					0.9	0.5	3/4"C	1-#12, 1-#12, 1-#12	R	EL-4, EXAM 4 RECEPTCLES	1	20 A	12
13	20 A	1	EXAM 4 HEADWALL EM...	R	1-#12, 1-#12, 1-#12	3/4"C	0.9	0.5					3/4"C	1-#12, 1-#12, 1-#12	R	EL-SE, SECURE EXAM...	1	20 A	14
15	20 A	1	SECURE EXAM HEADWAL...	R	1-#12, 1-#12, 1-#12	3/4"C			0.9	1.1			3/4"C	1-#12, 1-#12, 1-#12	R	EL-5, EXAM 5 EM...	1	20 A	16
17	20 A	1	EXAM 5 HEADWALL EM...	R	1-#12, 1-#12, 1-#12	3/4"C					0.9	1.2	3/4"C	1-#12, 1-#12, 1-#12	R	EL-ISO, PM-1, PS-7,...	1	20 A	18
19	20 A	1	EL-7A, PM-2, TRAUMA...	R	1-#12, 1-#12, 1-#12	3/4"C	1.5	0.9					3/4"C	1-#12, 1-#12, 1-#12	R	TRAUMA RECEPTACLES	1	20 A	20
21	20 A	1	NURSE STATION...	R	1-#12, 1-#12, 1-#12	3/4"C			0.7	0.9			3/4"C	1-#12, 1-#12, 1-#12	R	TRAUMA HEADWALL EM...	1	20 A	22
23	20 A	1	COPIER/PRINTER	R	1-#12, 1-#12, 1-#12	3/4"C					0.2	1.3	3/4"C	1-#12, 1-#12, 1-#12	R	MED VAC/GAS GEN...	1	20 A	24
25	20 A	1	LAB RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C	0.4	0.7					3/4"C	1-#12, 1-#12, 1-#12	R	NURSE STATION...	1	20 A	26
27	20 A	1	REFRIGERATOR TILT	R	1-#12, 1-#12, 1-#12	3/4"C			0.2	0.7			3/4"C	1-#12, 1-#12, 1-#12	R	RECEPTION RECEPTACLES	1	20 A	28
29	20 A	1	LAB FREEZER	R	1-#12, 1-#12, 1-#12	3/4"C					0.2	0.6	3/4"C	1-#12, 1-#12, 1-#12	R	PS-5, LAB RECEPTACLES	1	20 A	30
31	20 A	1	EQUIPMENT STORAGE...	R	1-#12, 1-#12, 1-#12	3/4"C	0.9	0.0					3/4"C	1-#12, 1-#12, 1-#12		RTU-1-1 LIGHTS	1	20 A	32
33	20 A	1	REFRIGERATOR	R	1-#12, 1-#12, 1-#12	3/4"C			0.2	0.2			3/4"C	1-#12, 1-#12, 1-#12	R	LAB REFRIGERATOR	1	20 A	34
35	20 A	1	MEDS RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C					0.5	0.2	3/4"C	1-#12, 1-#12, 1-#12	R	ICE MAKER	1	20 A	36
37							0.4						3/4"C	1-#12, 1-#12, 1-#12	R	NURSE STATION...	1	20 A	38
39	20 A	1	PIXIS	R	1-#12, 1-#12, 1-#12	3/4"C			0.2	0.5			3/4"C	1-#12, 1-#12, 1-#12	R	MEDS RECEPTACLES	1	20 A	40
41	20 A	1	LAB FREEZER	R	1-#12, 1-#12, 1-#12	3/4"C					0.2	0.7	3/4"C	1-#12, 1-#12, 1-#12	R	RISER/ ELECTRICAL ROO...	1	20 A	42
					TOTAL LOAD :		12.7 kVA		12.4 kVA		10.5 kVA								
					TOTAL AMPS :		109 A		106 A		87 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	0.00 kVA		0.00%		0.00 kVA
D - OTHER HVAC LOADS	0.00 kVA		0.00%		0.00 kVA
H - SPACE HEATING	0.00 kVA		0.00%		0.00 kVA
L - GENERAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
M - MISC. CONTINUOUS	0.00 kVA		0.00%		0.00 kVA
N - MISC. NONCONTINUOUS	5.02 kVA		65.00%		3.26 kVA
R - RECEPTACLES	30.60 kVA		66.34%		20.30 kVA

PANEL TOTALS

CONNECTED LOAD (KVA):	35.62 kVA
DEMAND LOAD (KVA):	23.56 kVA
DEMAND AMPS:	99 A
TOTAL:	65 A
+RESERVED FUTURE CAPACITY	16 A
TOTAL UNBALANCED 3 PHASE NEC	
ART. 220 FEEDER SIZING LOAD:	82 A
MIN NEC ART.220 REQUIRED	
OVERCURENT PROTECTION:	125 A

NL (SECTION 1)

SERVED FROM: T-NL (75)
LOCATION: ELEC 1139
MOUNTING: SURFACE

AMPERE RATING: 225 A
MAIN TYPE: MCB
LUG OPTIONS: FEED THRU

VOLTAGE (L-L): 208 V
VOLTAGE (L-N): 120 V

PHASE: 3
WIRE: 4
MIN. KAIC: 10

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	TRIAGE RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C	0.5	0.9					3/4"C	1-#12, 1-#12, 1-#12	R	TRIAGE HEADWALL	1	20 A	2
3	20 A	1	EXAM 1 RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C			0.7	0.9			3/4"C	1-#12, 1-#12, 1-#12	R	EXAM 1 HEADWALL...	1	20 A	4
5	20 A	1	R - RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C					0.5	0.9	3/4"C	1-#12, 1-#12, 1-#12	R	E - EQUIPMENT LOAD	1	20 A	6
7	20 A	1	R - RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C	1.1	0.7					3/4"C	1-#12, 1-#12, 1-#12	R	EXAM 3 RECEPTACLES	1	20 A	8
9	20 A	1	EXAM 3 HEADWALL...	R	1-#12, 1-#12, 1-#12	3/4"C			0.9	0.9			3/4"C	1-#12, 1-#12, 1-#12	R	EXAM 4 HEADWALL...	1	20 A	10
11	20 A	1	R - RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C					0.7	0.9	3/4"C	1-#12, 1-#12, 1-#12	R	SECURE EXAM...	1	20 A	12
13	20 A	1	SECURE EXAM HEADWAL...	R	1-#12, 1-#12, 1-#12	3/4"C	0.9	0.5					3/4"C	1-#12, 1-#12, 1-#12	R	EXAM 5 RECEPTACLES	1	20 A	14
15	20 A	1	EXAM 5 HEADWALL...	R	1-#12, 1-#12, 1-#12	3/4"C			0.9	1.1			3/4"C	1-#12, 1-#12, 1-#12	R	ISOLATION RECEPTACLES	1	20 A	16
17	20 A	1	ISO EXAM HEADWALL...	R	1-#12, 1-#12, 1-#12	3/4"C					0.9	0.9	3/4"C	1-#12, 1-#12, 1-#12	R	ISO EXAM HEADWALL EM...	1	20 A	18
19	20 A	1	TRAUMA HEADWALL...	R	1-#12, 1-#12, 1-#12	3/4"C	0.9	0.9					3/4"C	1-#12, 1-#12, 1-#12	R	R - RECEPTACLES	1	20 A	20
21	20 A	1	TRAUMA HEADWALL EM...	R	1-#12, 1-#12, 1-#12	3/4"C			0.9	0.7			3/4"C	1-#12, 1-#12, 1-#12	R	NURSE STATION...	1	20 A	22
23	20 A	1	NURSE STATION...	R	1-#12, 1-#12, 1-#12	3/4"C					0.9	0.5	3/4"C	1-#12, 1-#12, 1-#12	R	R - RECEPTACLES	1	20 A	24
25	20 A	1	SOILED/STAFF TIOLET...	R	1-#12, 1-#12, 1-#12	3/4"C	0.9	0.5					3/4"C	1-#12, 1-#12, 1-#12	R	LAB RECEPTACLES	1	20 A	26
27	20 A	1	WAITING RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C			1.3	0.9			3/4"C	1-#12, 1-#12, 1-#12	R	VESTIBULE/WAITING...	1	20 A	28
29	20 A	1	RECEPTION RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C					0.7	1.1	3/4"C	1-#12, 1-#12, 1-#12	R	R - RECEPTACLES	1	20 A	30
31	20 A	1	ICE MAKER/KUERIG	R	1-#12, 1-#12, 1-#12	3/4"C	0.4	1.1					3/4"C	1-#12, 1-#12, 1-#12	R	STAFF LOUNGE...	1	20 A	32
33	20 A	1	DR/NURSE OFFICE...	R	1-#12, 1-#12, 1-#12	3/4"C			1.1	0.2			3/4"C	1-#12, 1-#12, 1-#12	R	WATER FOUNTAIN	1	20 A	34
35	20 A	1	CT RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C					0.9	1.3	3/4"C	1-#12, 1-#12, 1-#12	R	XRAY RECEPTACLES	1	20 A	36
37	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	38
39	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	40
41	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	42
					TOTAL LOAD :		12.4 kVA		13.1 kVA		12.6 kVA								
					TOTAL AMPS :		104 A		110 A		105 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	0.00 kVA		0.00%		0.00 kVA
D - OTHER HVAC LOADS	0.00 kVA		0.00%		0.00 kVA
H - SPACE HEATING	0.00 kVA		0.00%		0.00 kVA
L - GENERAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
M - MISC. CONTINUOUS	0.00 kVA		0.00%		0.00 kVA
N - MISC. NONCONTINUOUS	0.36 kVA		65.00%		0.23 kVA
R - RECEPTACLES	37.80 kVA		63.23%		23.90 kVA

PANEL TOTALS

CONNECTED LOAD (KVA):	38.16 kVA
DEMAND LOAD (KVA):	24.13 kVA
DEMAND AMPS:	106 A
TOTAL:	67 A
+RESERVED FUTURE CAPACITY	17 A
TOTAL UNBALANCED 3 PHASE NEC	
ART. 220 FEEDER SIZING LOAD:	84 A
MIN NEC ART.220 REQUIRED	
OVERCURENT PROTECTION:	125 A

EDCRL2 (SECTION 2)

SERVED FROM: EDCRL
LOCATION: ELEC 1139
MOUNTING: SURFACE

AMPERE RATING: 225 A
MAIN TYPE: MCB
LUG OPTIONS:

VOLTAGE (L-L): 208 V
VOLTAGE (L-N): 120 V

PHASE: 3
WIRE: 4
MIN. KAIC: 10

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	STAFF REFRIGERATOR	R	1-#12, 1-#12, 1-#12	3/4"C	0.2	0.4					3/4"C	1-#12, 1-#12, 1-#12	R	DOC/NURSE OFFICE...	1	20 A	2
3	20 A	1	NURSE STATION...		1-#12, 1-#12, 1-#12	3/4"C			0.5	0.0			3/4"C	--	--	Spare	1	20 A	4
5	20 A	1	PS-2, PS-3	R	1-#12, 1-#12, 1-#12	3/4"C					0.1	0.2	3/4"C	1-#12, 1-#12, 1-#12	R	PS-6, CRASH CART	1	20 A	6
7	20 A	1	PS-4, CRASH CART...	R	1-#12, 1-#12, 1-#12	3/4"C	0.4	0.9					3/4"C	1-#12, 1-#12, 1-#12	R	ROOF TOP RECEPTACLES	1	20 A	8
9	20 A	1	PS-8. ULTRASOUND...	R	1-#12, 1-#12, 1-#12	3/4"C			0.8	0.5			3/4"C	1-#12, 1-#12, 1-#12	R	CONTROL ROOM	1	20 A	10
11	20 A	1	CT UC FRIDGE	R	1-#12, 1-#12, 1-#12	3/4"C					0.2	0.4	3/4"C	1-#12, 1-#12, 1-#12	R	PS-9, CT RECEPTACLES	1	20 A	12
13	20 A	1	XRAY RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C	0.5	0.4					3/4"C	1-#12, 1-#12, 1-#12	R	MICROWAVE	1	20 A	14
15	20 A	1	NC-1		1-#12, 1-#12, 1-#12	3/4"C			0.4	0.5			3/4"C	1-#12, 1-#12, 1-#12		NURSE STATION...	1	20 A	16
17	20 A	1	SC-1		1-#12, 1-#12, 1-#12	3/4"C					0.0	0.4	3/4"C	1-#12, 1-#12, 1-#12		IT-1	1	20 A	18
19	20 A	1	IT-2		1-#12, 1-#12, 1-#12	3/4"C	0.4	0.4					3/4"C	1-#12, 1-#12, 1-#12		IT-3	1	20 A	20
21	20 A	1	CATV		1-#12, 1-#12, 1-#12	3/4"C			0.5	0.0			3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	24
25	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	26
27	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	28
29	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	30
31	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	32
33	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	34
35	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	36
37	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	38
39	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	40
41	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	42
					TOTAL LOAD :		3.5 kVA		3.3 kVA		1.3 kVA								
					TOTAL AMPS :		32 A		30 A		10 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X	DEMAND FACTOR	=	DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
C - SPACE COOLING	0.00 kVA		0.00%		0.00 kVA
D - OTHER HVAC LOADS	0.00 kVA		0.00%		0.00 kVA
H - SPACE HEATING	0.00 kVA		0.00%		0.00 kVA
L - GENERAL LIGHTING	0.00 kVA		0.00%		0.00 kVA
M - MISC. CONTINUOUS	0.00 kVA		0.00%		0.00 kVA
N - MISC. NONCONTINUOUS	2.07 kVA		65.00%		1.35 kVA
R - RECEPTACLES	5.94 kVA		100.00%		5.94 kVA

PANEL TOTALS

CONNECTED LOAD (KVA):	8.01 kVA
DEMAND LOAD (KVA):	7.29 kVA
DEMAND AMPS:	22 A
TOTAL:	20 A
+RESERVED FUTURE CAPACITY	5 A
TOTAL UNBALANCED 3 PHASE NEC	
ART. 220 FEEDER SIZING LOAD:	25 A
MIN NEC ART.220 REQUIRED	
OVERCURENT PROTECTION:	80 A

NL2 (SECTION 2)

SERVED FROM: NL
LOCATION: ELEC 1139
MOUNTING: SURFACE

AMPERE RATING: 225 A
MAIN TYPE: MCB
LUG OPTIONS:

VOLTAGE (L-L): 208 V
VOLTAGE (L-N): 120 V

PHASE: 3
WIRE: 4
MIN. KAIC: 10

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	ULTRASOUND...	R	1-#12, 1-#12, 1-#12	3/4"C	0.5	1.1					3/4"C	1-#12, 1-#12, 1-#12	R	COMPUTER RECEPTACLES	1	20 A	2
3	20 A	1	MRI CONTROL...	R	1-#12, 1-#12, 1-#12	3/4"C			1.1	1.4			3/4"C	1-#12, 1-#12, 1-#12	R	MRI RECEPTACLES	1	20 A	4
5	20 A	1	SUB WAITING...	R	1-#12, 1-#12, 1-#12	3/4"C					1.3	1.1	3/4"C	1-#12, 1-#12, 1-#12	R	IMAGING OFFICE/NURSE...	1	20 A	6
7	20 A	1	IT RECEPTACLES	R	1-#12, 1-#12, 1-#12	3/4"C	0.9	0.5					3/4"C	1-#12, 1-#12, 1-#12		PA-1	1	20 A	8
9	20 A	1	MICROWAVE		1-#12, 1-#12, 1-#12	3/4"C			0.2	0.0			3/4"C	1-#12, 1-#12, 1-#12		RTU-1-2 LIGHTS	1	20 A	10
11	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	12
13	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	14
15	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	16
17	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	18
19	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 22" X 34" SHEETS ONE HALF INCH AT 11" X 17"

IMLSH

SERVED FROM: ATS IMLS
LOCATION: ELEC 1138
MOUNTING: SURFACE

AMPERE RATING: 125 A
MAIN TYPE: MCB
LUG OPTIONS:

VOLTAGE (L-L): 480 V
VOLTAGE (L-N): 277 V

PHASE: 3
WIRE: 4
MIN. KAIC: 22

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	L - GENERAL LIGHTING	L	1-#12, 1-#12, 1-#12	3/4"C	0.2	0.7											2
3	20 A	1	Spare	--	--	3/4"C			0.0	0.0			1 1/4"C	3-#4,1-#8		T-IMLSL (45)	3	70 A	4
5	20 A	1	Spare	--	--	3/4"C					0.0	0.0							6
7	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	8
9	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	10
11	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	12
13	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	14
15	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	16
17	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	18
19	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	20
21	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	24
						TOTAL LOAD :	0.9 kVA		0.0 kVA		0.0 kVA								
						TOTAL AMPS :	3 A		0 A		0 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X DEMAND FACTOR	= DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA	0.00%	0.00 kVA
C - SPACE COOLING	0.00 kVA	0.00%	0.00 kVA
D - OTHER HVAC LOADS	0.00 kVA	0.00%	0.00 kVA
H - SPACE HEATING	0.00 kVA	0.00%	0.00 kVA
L - GENERAL LIGHTING	0.16 kVA	125.00%	0.20 kVA
M - MISC. CONTINUOUS	0.00 kVA	0.00%	0.00 kVA
N - MISC. NONCONTINUOUS	0.74 kVA	65.00%	0.48 kVA
R - RECEPTACLES	0.00 kVA	0.00%	0.00 kVA

PANEL TOTALS	
CONNECTED LOAD (KVA):	0.90 kVA
DEMAND LOAD (KVA):	0.68 kVA
DEMAND AMPS:	1 A
TOTAL:	1 A
+RESERVED FUTURE CAPACITY	0 A
TOTAL UNBALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD:	1 A
MIN NEC ART.220 REQUIRED OVERCURENT PROTECTION:	35 A

IMEH

SERVED FROM: ATS IMEM
LOCATION: ELEC 1138
MOUNTING: SURFACE

AMPERE RATING: 400 A
MAIN TYPE: MCB
LUG OPTIONS:

VOLTAGE (L-L): 480 V
VOLTAGE (L-N): 277 V

PHASE: 3
WIRE: 4
MIN. KAIC: 22

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	L - GENERAL LIGHTING	L	1-#12, 1-#12, 1-#12	3/4"C	0.3	15.0											2
3									1.1	15.0			1 1/4"C	3-#3, 1-#3, 1-#3	N	MRI	3	80 A	4
5	70 A	3	T-IMEML (45)		3-#4,1-#8	1 1/4"C					0.8	15.0							6
7							0.0	3.5					3/4"C	1-#12, 1-#12, 1-#12	N	VAV-ED-23	1	20 A	8
9	20 A	1	VAV-ED-22	N	1-#12, 1-#12, 1-#12	3/4"C			2.0	4.5			3/4"C	1-#10, 1-#10, 1-#10		VAV-ED-20	1	25 A	10
11	20 A	1	VAV-ED-21	N	1-#12, 1-#12, 1-#12	3/4"C					3.0	4.5	3/4"C	1-#10, 1-#10, 1-#10		VAV-ED-24	1	25 A	12
13							0.1												14
15	60 A	3	MRI-CH		3-#4, 1-#4, 1-#10	1 1/4"C			0.1	13.3									16
17											0.1	13.3	1 1/4"C	3-#4, 1-#4, 1-#8	H	DH-1-2-1	3	70 A	18
19	20 A	1	Spare	--	--	3/4"C	0.0	13.3											20
21	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	24
25	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	26
27	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	28
29	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	30
31	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	32
33	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	34
35	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	36
37	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	38
39	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	40
41	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	42
						TOTAL LOAD :	32.3 kVA		36.0 kVA		36.7 kVA								
						TOTAL AMPS :	117 A		132 A		135 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X DEMAND FACTOR	= DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA	0.00%	0.00 kVA
C - SPACE COOLING	0.00 kVA	0.00%	0.00 kVA
D - OTHER HVAC LOADS	1.06 kVA	0.75%	0.01 kVA
H - SPACE HEATING	40.00 kVA	125.00%	50.00 kVA
L - GENERAL LIGHTING	0.28 kVA	125.00%	0.35 kVA
M - MISC. CONTINUOUS	0.00 kVA	0.00%	0.00 kVA
N - MISC. NONCONTINUOUS	62.55 kVA	65.00%	40.66 kVA
R - RECEPTACLES	1.08 kVA	100.00%	1.08 kVA

PANEL TOTALS	
CONNECTED LOAD (KVA):	105.03 kVA
DEMAND LOAD (KVA):	92.17 kVA
DEMAND AMPS:	126 A
TOTAL:	111 A
+RESERVED FUTURE CAPACITY	28 A
TOTAL UNBALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD:	139 A
MIN NEC ART.220 REQUIRED OVERCURENT PROTECTION:	225 A

IMLSL

SERVED FROM: T-IMLSL (45)
LOCATION: ELEC 1138
MOUNTING: SURFACE

AMPERE RATING: 100 A
MAIN TYPE: MCB
LUG OPTIONS:

VOLTAGE (L-L): 208 V
VOLTAGE (L-N): 120 V

PHASE: 3
WIRE: 4
MIN. KAIC: 10

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	AP-2,MAP-2	N	1-#12, 1-#12, 1-#12	3/4"C	0.2	0.5					3/4"C	1-#12, 1-#12, 1-#12		DCIM	1	20 A	2
3	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	4
5	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	6
7	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	8
9	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	10
11	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	12
13	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	14
15	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	16
17	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	18
19	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	20
21	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	24
						TOTAL LOAD :	0.7 kVA		0.0 kVA		0.0 kVA								
						TOTAL AMPS :	6 A		0 A		0 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X DEMAND FACTOR	= DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA	0.00%	0.00 kVA
C - SPACE COOLING	0.00 kVA	0.00%	0.00 kVA
D - OTHER HVAC LOADS	0.00 kVA	0.00%	0.00 kVA
H - SPACE HEATING	0.00 kVA	0.00%	0.00 kVA
L - GENERAL LIGHTING	0.00 kVA	0.00%	0.00 kVA
M - MISC. CONTINUOUS	0.00 kVA	0.00%	0.00 kVA
N - MISC. NONCONTINUOUS	0.74 kVA	65.00%	0.48 kVA
R - RECEPTACLES	0.00 kVA	0.00%	0.00 kVA

PANEL TOTALS	
CONNECTED LOAD (KVA):	0.74 kVA
DEMAND LOAD (KVA):	0.48 kVA
DEMAND AMPS:	2 A
TOTAL:	1 A
+RESERVED FUTURE CAPACITY	0 A
TOTAL UNBALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD:	2 A
MIN NEC ART.220 REQUIRED OVERCURENT PROTECTION:	30 A

IMEL

SERVED FROM: T-IMEML (45)
LOCATION: ELEC 1138
MOUNTING: SURFACE

AMPERE RATING: 125 A
MAIN TYPE: MCB
LUG OPTIONS:

VOLTAGE (L-L): 208 V
VOLTAGE (L-N): 120 V

PHASE: 3
WIRE: 4
MIN. KAIC: 10

REMARKS:

#	TRIP	POLE	LOAD DESCRIPTION	CODE	WIRE SIZES (H/N/G OR H/G)	COND SIZE	A		B		C		COND SIZE	WIRE SIZES (H/N/G OR H/G)	CODE	LOAD DESCRIPTION	POLE	TRIP	#
1	20 A	1	EF-PURGE		1-#12, 1-#12, 1-#12	3/4"C	0.7	0.4					3/4"C	1-#12, 1-#12, 1-#12		NURSE STATION...	1	20 A	2
3	20 A	1	PS-1, PS-13	N	1-#12, 1-#12, 1-#12	3/4"C			0.1	0.7			3/4"C	1-#12, 1-#12, 1-#12	R	IMAGING/ NURSE...	1	20 A	4
5	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	6
7	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	8
9	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	10
11	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	12
13	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	14
15	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	16
17	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	18
19	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	20
21	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	22
23	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	24
25	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	26
27	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	28
29	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	30
31	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	32
33	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	34
35	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	36
37	20 A	1	Spare	--	--	3/4"C	0.0	0.0					3/4"C	--	--	Spare	1	20 A	38
39	20 A	1	Spare	--	--	3/4"C			0.0	0.0			3/4"C	--	--	Spare	1	20 A	40
41	20 A	1	Spare	--	--	3/4"C					0.0	0.0	3/4"C	--	--	Spare	1	20 A	42
						TOTAL LOAD :	1.1 kVA		0.8 kVA		0.0 kVA								
						TOTAL AMPS :	10 A		7 A		0 A								

LOAD CATEGORY	CONNECTED LOAD (KVA)	X DEMAND FACTOR	= DEMAND (KVA)
A - HOSPITAL LIGHTING	0.00 kVA	0.00%	0.00 kVA
C - SPACE COOLING	0.00 kVA	0.00%	0.00 kVA
D - OTHER HVAC LOADS	0.70 kVA	0.75%	0.01 kVA
H - SPACE HEATING	0.00 kVA	0.00%	0.00 kVA
L - GENERAL LIGHTING	0.00 kVA	0.00%	0.00 kVA
M - MISC. CONTINUOUS	0.00 kVA	0.00%	0.00 kVA
N - MISC. NONCONTINUOUS	0.05 kVA	65.00%	0.03 kVA
R - RECEPTACLES	1.08 kVA	100.00%	1.08 kVA

PANEL TOTALS	
CONNECTED LOAD (KVA):	1.83 kVA
DEMAND LOAD (KVA):	1.12 kVA
DEMAND AMPS:	5 A
TOTAL:	3 A
+RESERVED FUTURE CAPACITY	1 A
TOTAL UNBALANCED 3 PHASE NEC ART. 220 FEEDER SIZING LOAD:	4 A
MIN NEC ART.220 REQUIRED OVERCURENT PROTECTION:	40 A

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HDG PROJECT NUMBER: 24019
PROJECT NUMBER: 3024096.00

Δ	DATE	DESCRIPTION
	07.03.2025	ISSUE FOR PERMIT

SOUTH CAROLINA
DONALD A. JONES
No. 22886
7/16/2025
PROFESSIONAL ENGINEER

SOUTH CAROLINA
QUALITY CONSULTING ENGINEERS, LLC
No. 4298
CERTIFICATE OF AUTHORIZATION

ORIG SUBMISSION: 07.03.2025
CURRENT:

SHEET TITLE AND NUMBER:

EE7.04

PANEL SCHEDULES