

INVITATION FOR BIDS

CCK-1256X-1-25 UK Healthcare Richmond Improvements Projects # 12566, 12567, 12568, 12569 ADDENDUM # 3 03/21/2025

IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY 04/02/2025 @ 3:00 P.M. LEXINGTON, KY TIME

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

ITEM #1: CLARIFICATIONS AND MODIFICATIONS TO THE CONTRACT DOCUMENTS:

• Bidders are directed to review and incorporate the attached Addendum #3 from Champlin Architects.

OFFICIAL APPROVAL UNIVERSITY OF KENTUCKY	<u>SIGNATURE</u>
Corey W. Leslie	Typed or Printed Name

University of Kentucky Procurement Services 322 Peterson Service Building Lexington, KY 40506-0005



Addendum #03

Client	University of Kentucky Healthcare	Date	2025-03-21
Project	UK Richmon MOB	UK Project #	12566, 12567, 12568, 12569
	UK - CCK-1256x-1-25	Champlin Project #	514-7484

This addendum provides information to clarify or adjust construction items which may affect any or all trade contractors. The original documents for the referenced project are amended as noted in this addendum and made part of said documents and shall govern the work covered by the Form of Proposal. All work to be in strict accordance with the terms, stipulations and conditions of contract documents.

SUMMARY OF ATTACHMENTS:

- 1. Response to bidder questions
- 2. Existing roof warranty
- 3. Revised drawings with revision clouds as described below.

BIDDER QUESTIONS:

- 1. **Question**: There is a significant pricing difference between PL-1 & PL-2, and still trying to determine where PL-3 tops are at.
 - a. Response:
 - i. PL-2 is ONLY at the divider walls in the Check-In / Out desk at Registration 101 and the open shelf ONLY at detail 6/A802. This is the only location for PL-2 and is clarified on elevations 3 & 5/A401, & noted in detail 4/A802. Sheet A401 has been reissued with this addendum.
 - ii. PL-3 is the countertops for the clinical workrooms without sinks and is identified on interior elevations for enlarged floor plans 1 & 5/A407:
 - 1. MA/RN Workroom 331
 - 2. MD Workroom 332
 - iii. All other laminate is PL-1.
- 2. Question: The Pony walls as shown on 4/A802 is by others, but we need to cover in PL-2 colorcore with the stickman corners. Would you consider letting the casework company make these walls framed in house in order to have the best possible final finished product? Other suggestion would be to be sure that the supplier of the pony wall coordinates with us so we can fabricate to the greatest extent possible for installation of the panels.
 - a. **Response**: The divider walls shown in detail 4/A802 are not intended to be casework scope.
- 3. Question: Same pony wall issues as above but at 3/A802 for registration desk & solid surface.
 - a. Response: The wall shown in this detail is casework scope. Note that the 'rigid pony wall heavy' items is still required.
- 4. Question: My previous email for color questions, I believe is now figured out. All casework gets PL-1/SS1 Tops, except at 331/332 they get PL3 tops. The Exam rooms are SS1 tops w/SS2

integral sinks. PL-2 is also used at the pony walls and the open shelf under the in/out desks. SS3 is used at the desk tops/walls as indicated on details.

- a. Response: See response to Question 1.
- 5. **Question**: At 14/A408 PT Gym base cabinet notes 4 dividers in base cabinet. Does this mean 4 shelves? One vertical divider to make 4 cubbie openings? Or something else?
 - a. **Response**: The cabinet needs a single fixed shelf at the halfway height point as shown. The top of this shelf needs to be divided into (5) equal compartments.
- 6. Question: At 7/A405 there are TC-002 patient lockers noted, I'm assuming this is part of the rest of the casework what type of lock is required for the lockers? Do you need name plate on door face?
 - a. **Response**: A name plate is required along with a digi-lock for these lockers.
- 7. **Question**: Is the mock up required only for the glove cabinet? Or the whole exam room?
 - a. Response: Mock-up is only required for the glove cabinet.
- 8. Question: Will we be allowed to use Salice soft close hinges in lieu of Blum? Salice is our shop standard, their soft close hinge comes 105 or 155 degree opening.
 - a. Response: This is acceptable.
- Question: Will magnetic catches be enforced? They are really not needed with soft close hardware.
 - a. <u>Response</u>: Magnetic catches are not required where the doors have soft-close hardware.
- 10. **Question**: The specs indicate shelf rests ANSI/BHMA A156.9 B04013 this is a metal rest with pilaster; however the drawings indicate line bore. Which is to be used? If pilasters do you surface mount or recessed? If recessed typical construction is that the particle board is exposed.
 - a. **Response**: The specifications prevail. Please provide the recessed metal pilaster.
- 11. **Question**: The drawer slides that are called out as basis of design are Accuride easy/soft close 3634EC note that this is an expensive slide at a raw cost of \$81 each, will you accept a DSPro as substitute?
 - a. **Response**: This substitution is not acceptable.
- Question: The door and drawer locks call out ANSI/BHMA A156.11 E07121 & E07041 Grade 1 they are non-stock special order locks and expensive (document attached). Will you allow our shop standard Timberline Deadbolt CB250, CB255, CB280? There are very few areas noted to get cabinet locks.
 - a. Response: This is acceptable
- 13. **Question**: Work surface supports called out to be Mockett, will A&M support brackets be allowed (more cost effective) testing info attached.
 - a. Response: This is acceptable.
- 14. Question: Specs call for Air Vent Grille, I do not see where these are called out on the casework.
 - a. Response: These are for the i-pad charging stations. Provide (2) air vent grilles, one in each door at the tall cabinet on elevation 10/4A408.

- 15. Question: Specs calling for both door restraints and restriction clips which are to be used?
 - a. **Response**: Please use the restriction clips wherever possible.
- 16. Question: Please clarify scope of work for Alternate 1?
 - a. Response: Floor drains in the toilet rooms are not required per the 2022 Kentucky Plumbing Code, section 20:191 Minimum Fixture Requirements, Section 2. Alternate scope is defined in the specifications section 012300 ALTERNATES.IC002

PART A - DRAWINGS:

A001 - ARCHITECTURAL SITE & ROOF PLAN

- 1. Coordinate removable bollards with civil drawings.
- 2. Coordinate accessible parking spaces with civil drawings
- 3. Add basis of design for the Conex Box.

A401 - ENLARGED PLANS & INTERIOR ELEVATIONS

1. Clarify location of PL-2 on interior elevations 3 & 5.

P201 - FIRST FLOOR - PLUMBING DISTRIBUTION PIPING PLAN

- 1. Added Notes 7 & 8
- 2. Added 0.75" Backflow Preventer and associated cold water (NPW) to serve humidifiers.

IC002 - CONTROLS

- 1. Change relief air damper from motorized to barometric on controls diagram.
- 2. Remove freeze-stat from controls diagram and associated control point on schedule.
- 3. Remove final filter from controls diagram and associated control point on schedule.
- 4. Remove UVGI light from controls diagram and associated control point on schedule.
- 5. Remove unused control points from schedule. Renumber control points to account for these removals.

M002 - HVAC SCHEDULES

- 1. Add return fan data to schedule for all RTUs.
- 2. Add integral 100% barometric relief and service receptacle to schedule for all RTUs.
- 3. Add makeup water connection and drain connection sizes to electric humidifiers.

M003 - HVAC SCHEDULES

 Add note to steam condensate pump schedule to provide pump for each grid and dispersion device.

M201 - FIRST FLOOR - MECHANICAL NEW WORK PLAN

- 1. Relocate steam generators. Reroute steam piping to dispersion grids to account for new location.
- 2. Relocate condensate pipe routing for steam generators/dispersion grids. Drain is to be located in CT EQUIP closet.

E001 - ELECTRICAL LEGEND, SCHEDULES AND SHEET INDEX

1. Revise light fixture descriptions and add manufacturers

E002 - SINGLE LINE

1. The generator voltage clarified and stepdown transformer added.

E003 - PANELBOARD SCHEDULES

1. Add circuits.

E201 - FIRST FLOOR - NEW WORK LIGHTING PLAN

1. Exterior lighting control clarified.

E301 - FIRST FLOOR - NEW WORK POWER PLAN

1. CT room revised and circuit clarified in data room.

E-501 - FIRST FLOOR - ELECTRICAL NEW WORK PLAN

1. Change conduit size from 1" to 2" in Note 9. Drawing not reissued.

End of Addendum

CARLISLE

GOLDEN SEAL TOTAL ROOFING SYSTEM WARRANTY

SERIAL NO. 10030320

111

DATE OF ISSUE: June 15, 2008

BUILDING OWNER:

RICHMOND CENTRE, LLC

NAME OF BUILDING:

RICHMOND CENTRE - RETAIL BUILDING X 2091 LANTERN RIDGE DRIVE, RICHMOND, KY

BUILDING ADDRESS:

DATE OF COMPLETION OF THE CARLISLE TOTAL ROOFING SYSTEM: 06/15/2008

DATE OF ACCEPTANCE BY CARLISLE: 06/15/2008

(EB Warranty)

CMD1029752

Carlisle Roofing Systems, Inc., warrants to the Building Owner (Owner) of the above described building, that; subject to the terms, conditions, and limitations stated in this warranty, Carlisle will repair any leak in the Carlisle Golden Seal™Total Roofing System (Carlisle Total Roofing System) installed by a Carlisle Authorized Roofing applicator for a period of 20 years commencing with the date of Carlisle's acceptance of the Carlisle Total Roofing System installation. However, in no event shall Carlisle's obligations extend beyond 20.5 years subsequent to the date of substantial completion of the Carlisle Total Roofing System. See below for exact date of warranty expiration.

The Carlisle Total Roofing System is defined as the following Carlisle brand materials: Membrane, Flashings, Counterflashings, Adhesives and Sealants, Insulation, Recovery Board, Fasteners, Fastener Plates, Fastening Bars, Metal Edging, Metal Termination Bars, and any other Carlisle brand products utilized in this installation.

TERMS, CONDITIONS, LIMITATIONS

Owner shall provide Carlisle with written notice within thirty (30) days of the discovery of any leak in the Carlisle Total Roofing System. Owner should send written notice of a leak to Carlisle's Warranty Services Department at the address set forth at the bottom of this warranty. By so notifying Carlisle, the Owner authorizes Carlisle or its designee to investigate the cause of the leak. Should the investigation reveal the cause of the leak to be outside the scope of this Warranty, investigation and repair costs for this service

If, upon inspection, Carlisle determines that the leak is caused by a defect in the Carlisle Total Roofing System's materials, or workmanship of the Carlisle Authorized Roofing Applicator in installing the same, Owner's remedies and Carlisle's liability shall be limited to Carlisle's repair of the leak.

This warranty shall not be applicable if, upon Carlisle's inspection, Carlisle determines that any of the following has occurred:

The Carlisle Total Roofing System is damaged by natural disasters, including, but not limited to, lightning, fire, insect infestations, earthquake, tornado, hail, hurricanes, The Carlisle Total Roofing System is damaged by natural disasters, including, but not immed to, lightning, the first measured at 10 maters above ground; or and winds of peak gust speeds of 55 mph or higher measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters above ground; or the first measured at 10 maters at 10 maters

causes a leak, or otherwise damages the Carlisle Total Roofing System; or Acids, oils, harmful chemicals and the like come in contact with the Carlisle Total Roofing.

(d)

This Warranty shall be null and word if any of the following shall occur:

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This Warranty shall be null and word if any of the following shall occur:

(a) If, after installation of the Carilsle Total Roofing System by a Carilsle Authorized Roofing Applicator there are any alterations or repairs made on or through the roof or objects such as but not limited to, structures, fixtures, or utilities are placed upon or attached to the roof without first obtaining written authorization from Carilsle; or objects such as but not limited to, structures, fixtures, or utilities are placed upon or attached to the roof without first obtaining written authorization from Carilsle; or objects such as but not limited to, structures, fixtures, or utilities are placed upon or attached to the roof without first obtaining written authorization from Carilsle; or objects such as but not limited to, structures, fixtures, or utilities are placed upon or attached to the roof without first obtaining written authorization from Carilsle; or objects such as but not limited to, structures, fixtures, or utilities are placed upon or attached to the roof without first obtaining written authorization from Carilsle; or objects such as but not limited to, structures, fixtures, or utilities are placed upon or attached to the roof without first obtaining written are placed upon or attached to the roof without first obtaining written are placed upon or attached to the roof without first obtaining written are placed upon or attached to the roof without first obtaining written are placed upon or attached to the roof without first obtaining written are placed upon or attached to the roof without first obtaining written are placed upon or attached to the roof without first obtaining written are placed upon or attached to the roof without first obtaining written are placed upon or attached to the roof without first obtaining written are placed upon or attached to the roof with the ro Failure by the Owner to use reasonable care in maintaining the roof, said maintenance to include, but not be limited to, those items listed on Carlisle's Care &

Only Carlisle brand insulation products are covered by this warranty. Carlisle specifically disclaims liability, under any theory of law, for damages sustained by or caused by 5 non-Carlisle brand insulation products.

During the term of this Warranty, Carlisle shall have free access to the roof during regular business hours. Carlisle shall have no obligation under this Warranty while any bills for installation, supplies, service, and warranty charges have not been paid in full to the Carlisle Authorized Roofing Applicator, Carlisle, or material suppliers.

Carlisie's failure at any time to enforce any of the terms or conditions stated herein shall not be construed to be a waiver of such provision. Carlisle shall not be responsible for the cleanliness or discoloration of the Carlisle Total Roofing System caused by environmental conditions including, but not limited to, dirt,

Carlisle shall have no liability under any theory of law for any claims, repairs, restoration, or other damages including, but not limited to, consequential or incidental damages

relating, directly or indirectly, to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like in the building or in the air, This warranty is not assignable by operation of law or otherwise. Application may be made by a new building owner for reissuance of the warranty during the original warranty.

period. Certain procedures including, but not limited to, an inspection of the Roofing System by a Carlisle representative and fees will apply to any reissuance. Carlisle reserves the right, in its sole discretion, to refuse to reissue this warrranty.

CARLISLE DOES NOT WARRANT PRODUCTS UTILIZED IN THIS INSTALLATION WHICH IT HAS NOT FURNISHED; AND SPECIFICALLY DISCLAIMS CARLISLE BOES NOT WARRANT PRODUCTS UTILIZED IN THIS INSTALLATION WHICH IT HAS NOT FURNISHED; AND SPECIFICALLY DISCLAIMS LIABILITY, UNDER ANY THEORY OF LAW, ARISING OUT OF THE INSTALLATION AND PERFORMANCE OF, OR DAMAGES SUSTAINED BY OR CAUSED BY, PRODUCTS NOT FURNISHED BY CARLISLE.

THE REMEDIES STATED HEREIN ARE THE SOLE AND EXCLUSIVE REMEDIES FOR FAILURE OF THE CARLISLE TOTAL ROOFING SYSTEM OR ITS COMPONENTS. THERE ARE NO WARRANTIES EITHER EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, WHICH EXTEND BEYOND THE FACE HEREOF, CARLISLE SHALL NOT BE LIABLE FOR ANY PARTICULAR PURPOSE AND MERCHANTABILITY, WHICH EXTEND BEYOND THE FACE HEREOF. INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR DAMAGE TO THE BUILDING OR ITS CONTENTS UNDER ANY THEORY OF LAW.

BY: Robert H. McNeill AUTHORIZED SIGNATURE TITLE: Director, Technical and Warranty Services

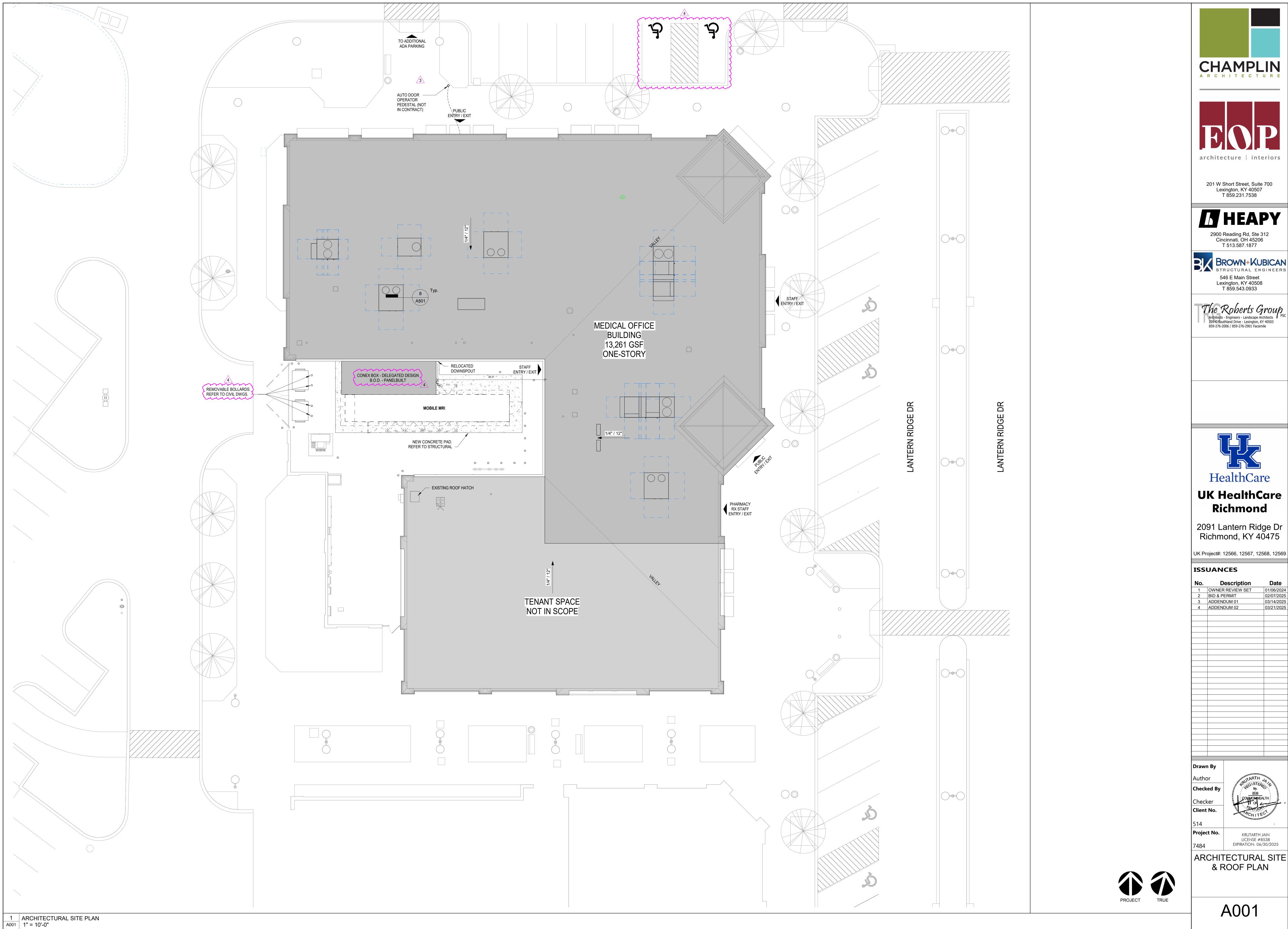
This Warranty Expires:

June 14, 2028

Investing in Roofing Solutions for Over 45 Years

800-4-SYNTEC • P.O. Box 7000 • Carlisle, PA 17013 • Fax: 717-245-7053 • www.carlisle-syntec.com © 2007 Carlisie.

Carlisle SynTec



CHAMPLIN



201 W Short Street, Suite 700 Lexington, KY 40507 T 859.231.7538





The Roberts Group
Architects - Engineers - Landscape Architects
239-C Southland Drive - Lexington, KY 40503
859-276-2006 / 859-276-2901 Facsimile

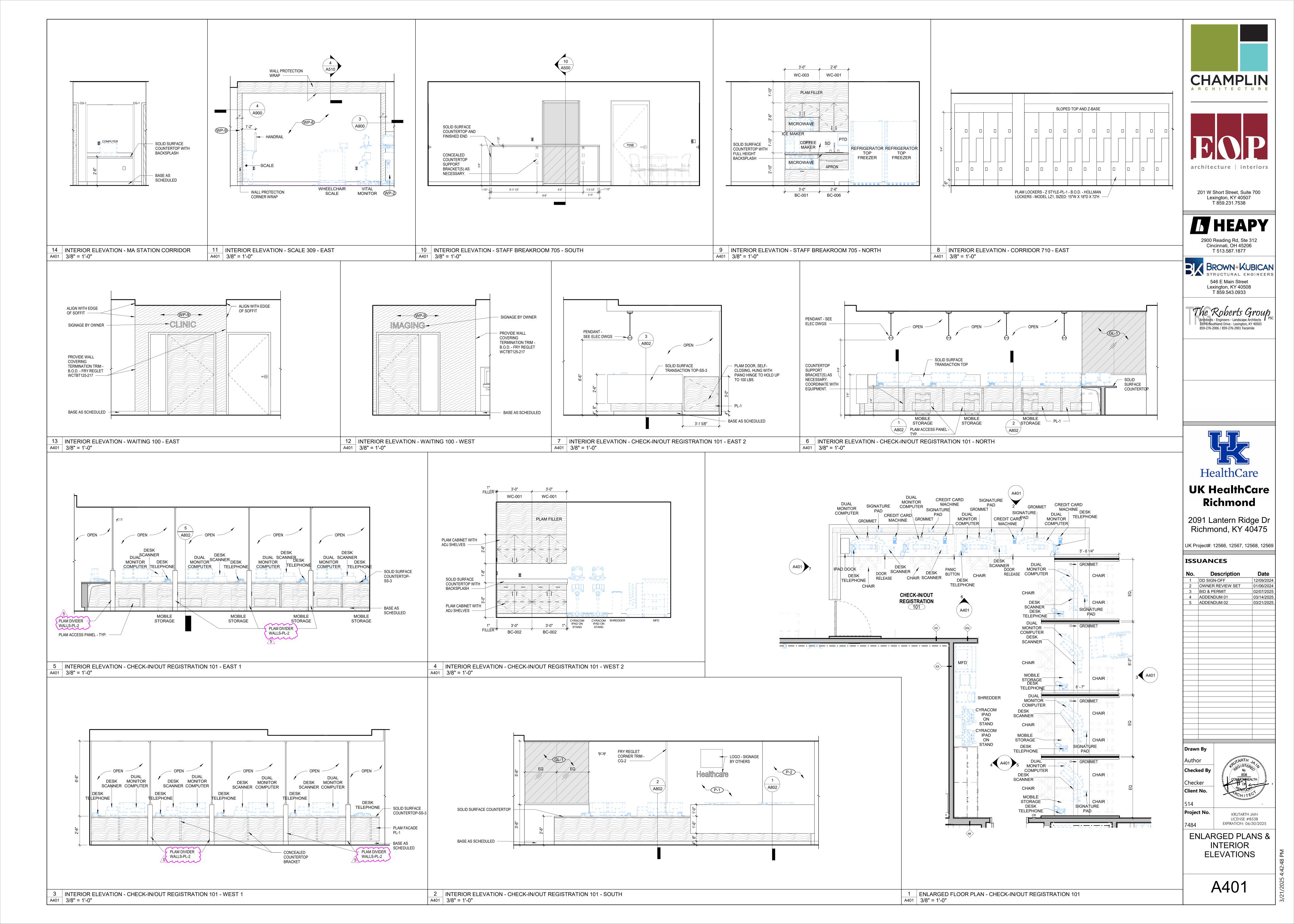


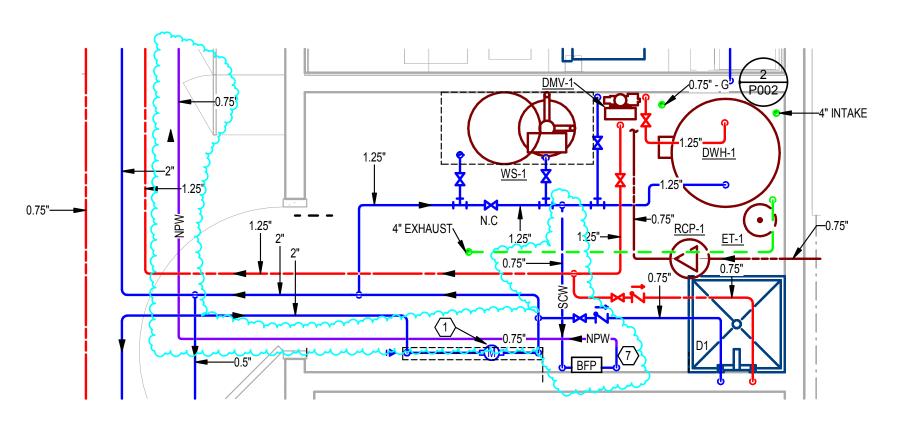
UK Project#: 12566, 12567, 12568, 12569

No.	Description	Date
1	OWNER REVIEW SET	01/06/2024
2	BID & PERMIT	02/07/2025
3	ADDENDUM 01	03/14/2025
4	ADDENDUM 02	03/21/2025

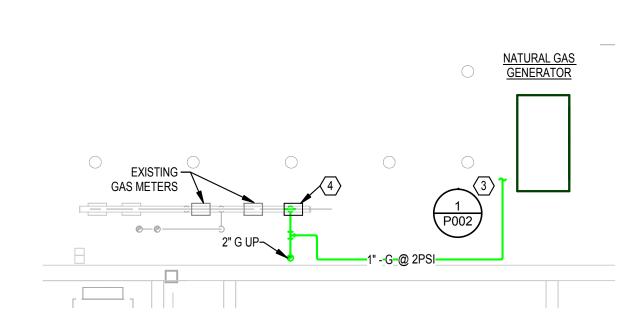
KRUTARTH JAIN LICENSE #8538 EXPIRATION: 06/30/2025

ARCHITECTURAL SITE & ROOF PLAN



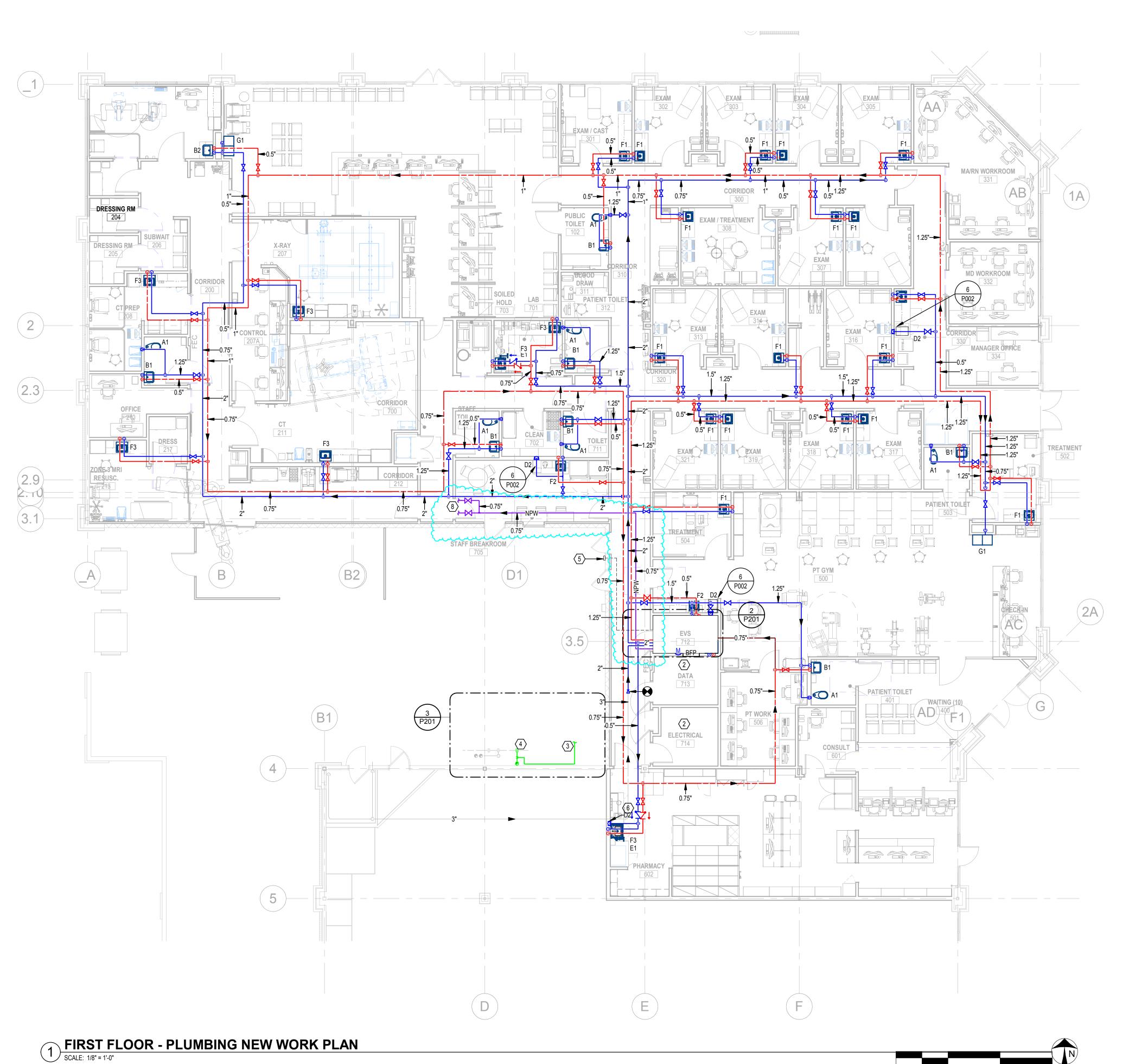






GENERATOR

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



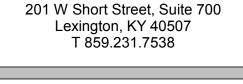
○PLAN NOTES

- 1. PROVIDE 1.5" TENANT WATER METER AT 8'-0" AFF. BASIS OF DESIGN SHALL BE NEPTUNE MODEL # T-10 OR EQUAL BY BADGER.
- NO PIPING SHALL BE ROUTED OVER THIS SPACE OTHER THAN WHAT SERVES IT.
- 3. EXTEND NATURAL GAS PIPING TO GENERATOR. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
- GAS METER PROVIDED BY GAS COMPANY. GAS METER SHALL BE SIZED FOR 1,793 CFH W/ A DELIVERY PRESSURE OF 2 PSI TO THE BUILDING.
- 5. PROVIDE REMOTE READER FOR DOMESTIC WATER METER. LOW VOLTAGE WIRING SHALL BE ROUTED IN CONDUIT. BASIS OF DESIGN SHALL BE VISU-LINK VL9-S OR EQUAL
- LOCATE FIXTURE "D2" IN CASE WORK BELOW IN ACCESSIBLE LOCATION TO SERVE MILLAPORE UNIT. 7. PROVIDE 0.75" BACKFLOW PREVENTER. BASIS OF DESIGN WATTS LF009 OR EQUAL. PROVIDE AIR GAP FITTING AND ROUTE DRAIN LINE TO ADJACENT MOP SINK.
- 8. EXTEND 0.75" NPW TO MECHANICAL EQUIPMENT. COORDINATE EXACT

LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.



CHAMPLIN



2900 Reading Rd, Ste 312
Cincinnati, OH 45206
T 513.587.1877
PROJECT NO. 2024-05109 STATE COA FIRM NO. 01528

BROWN+KUBICAN STRUCTURAL ENGINEERS 546 E Main Street

Lexington, KY 40508 T 859.543.0933



UK HealthCare Richmond

2091 Lantern Ridge Dr Richmond, KY 40475

UK Project#: 12566, 12567, 12568, 12569

ISSUANCES
 No.
 Description
 Date

 1
 90% OWNER REVIEW SET
 01/06/2025

 2
 BID & PERMIT SET
 02/07/2025

 3
 ADDENDUM #1
 03/14/2025

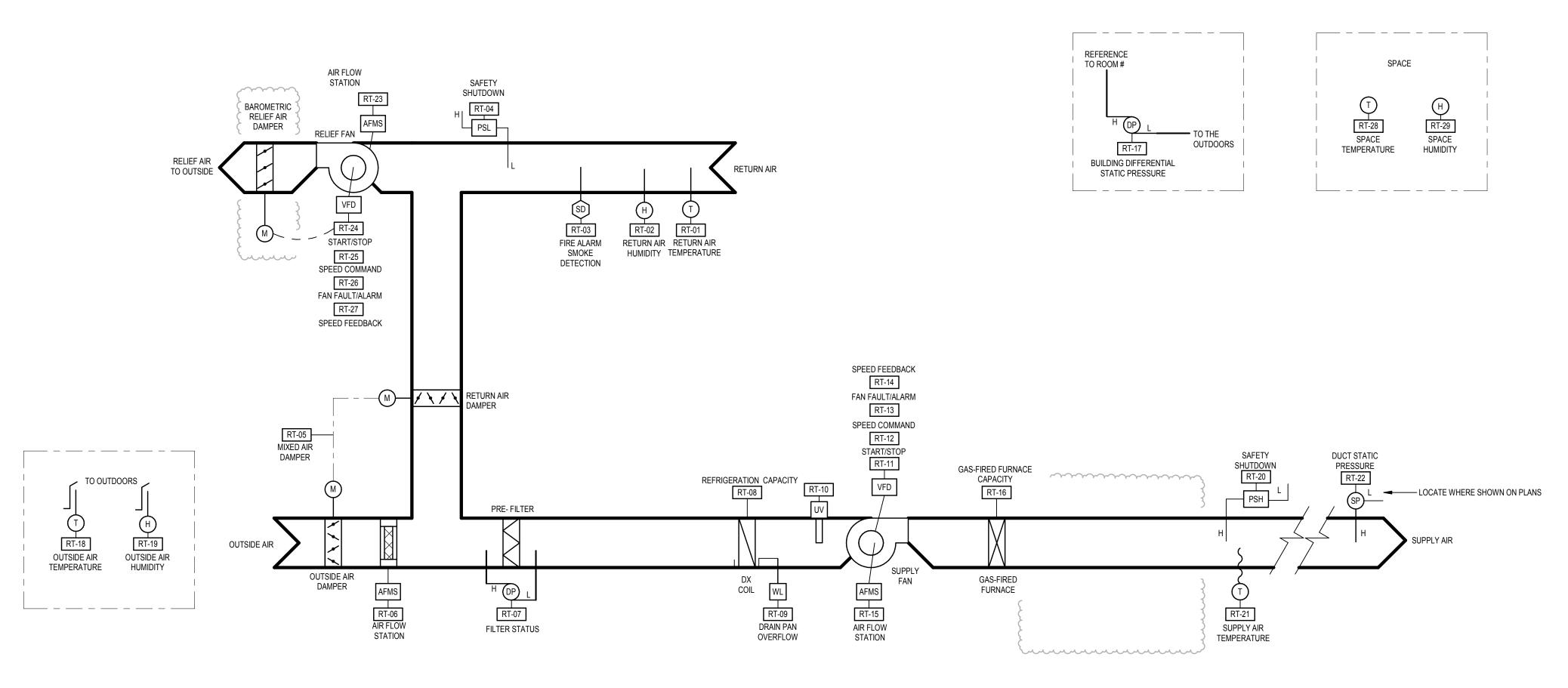
 4
 ADDENDUM #2
 03/21/2025

MICHAEL RYAN McCOLLUM

FIRST FLOOR -PLUMBING DISTRIBUTION PIPING

PLAN

2024-05109



ROOFTOP UNIT RTU CONTROLS DIAGRAM

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POINT NAME	RETURN AIR TEMPERATURE	RETURN AIR HUMIDITY	RETURN AIR SMOKE DETECTION	RETURN DUCT PRESSURE SAFETY SHUT-DOWN	MIXED AIR DAMPERS	OUTSIDE AIR - AIRFLOW	MEASURING STATION	PRE FILTER STATUS	DX REFRIGERATION CAPACITY	DRAIN PAN OVERFLOW	UV SYSTEM - CC	SUPPLY FAN START/STOP	SUPPLY FAN SPEED COMMAND	SUPPLY FAN FAULT/ALARM	SUPPLY FAN SPEED FEEDBACK	SUPPLY AIR - AIRFLOW MEASURING STATION	GAS FIRED FURNACE CAPACITY	BUILDING DIFFERENTIAL STATIC PRESSURE	OUTSIDE AIR TEMPERATURE	OUTSIDE AIR HUMIDITY	SUPPLY HIGH DUCT PRESSURE	SUPPLY AIR TEMPERATURE	SUPPLY DUCT STATIC PRESSURE	RELIEF AIR - AIRFLOW MEASURING STATION	COTO/TO ATA DE LE CAMPA CATA DE LA CATA DEL CATA DE LA CATA DEL CATA DE LA CATA DEL CATA DEL CATA DEL CATA DEL CATA DEL CATA DE LA CATA DE LA CATA DEL CATA DE	EF FAN STAF	<u>L</u>	RELIEF FAN FAULT/ALARM	RELIEF FAN SPEED FEEDBACK	REPRESENTATIVE SPACE TEMPERATURE	REPRESENTATIVE SPACE HUMIDITY
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POINT BY RTU CONTROLLER	•	•	•		•	•	,	•	•	•		•	•	•	•	•	•				•	•	•	•	•	•	•	•	•		
POINT COMMUNICATED TO BAS BY RTU CONTROLLER	•	•	•			•	,	•	•	•				•	•	•	•				•	•	•	•	•	•		•	•		
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NOTES			1,2	6,7,9						2	6,9,12										2		8							10	11

ROOFTOP UNIT CONTROLS DIAGRAM SCALE: NONE

RTU - 3 SEQUENCES

- A. RTU CONTROLLER(S) SEQUENCES OF OPERATION
 1. ALL SEQUENCES SHALL COMPLY WITH ASHRAE STANDARD 90.1 2010 / 2013 / 2016 /
- THE RTU VENDOR SHALL WORK WITH AND COORDINATE WITH THE BAS VENDOR TO PROVIDE A WELL COORDINATED CONTROL SYSTEM.
 THE RTU OCCUPANCY SCHEDULE SHALL RESIDE WITH-IN THE RTU CONTROLLER,
- a. ALTERNATIVE SCHEDULING OPTION: IF THE SCHEDULE RESIDING IN THE RTU CONTROLLER IS NOT EDITABLE BY THE BAS, THE SCHEDULE MAY RESIDE IN THE BAS, WITH THE BAS SENDING A "NEXT STATE" OCCUPIED / UNOCCUPIED DATE/TIME SIGNAL TO THE RTU CONTROLLER SO THE RTU CONTROLLER CAN MANAGE OPTIMAL START (MORNING WARM-UP / COOL-DOWN), NIGHT SETBACK, NIGHT SET-UP FUNCTIONS, AND OCCUPIED FUNCTIONS. IF NETWORK COMMUNICATION IS LOST, THE RTU CONTROLLER SHALL DETERMINE MODES BASED ON HISTORICAL DATA. EXACT DETAILS SHALL BE COORDINATED WITH
- NIGHT SETBACK HEATING MODE SHALL BE INITIATED WHILE THE RTU IS IN UNOCCUPIED MODE TO KEEP THE REPRESENTATIVE SPACE TEMPERATURE ABOVE THE NIGHT SETBACK TEMPERATURE SETPOINT (60 DEGF DEFAULT, ADJUSTABLE VIA THE BAS). THE REPRESENTATIVE SPACE TEMPERATURE WILL BE DETERMINED BY THE BAS AND COMMUNICATED TO THE RTU CONTROLLER.
 NIGHT SET-UP COOLING MODE SHALL BE INITIATED WHILE THE RTU IS IN

UNOCCUPIED MODE TO KEEP THE REPRESENTATIVE SPACE TEMPERATURE AND

HUMIDITY BELOW THE NIGHT SET-UP TEMPERATURE SETPOINT (80 DEGF DEFAULT,

ADJUSTABLE VIA THE BAS) AND RH BELOW 60% (ADJUSTABLE VIA THE BAS). THE

- REPRESENTATIVE SPACE TEMPERATURE AND RH WILL BE DETERMINED BY THE BAS AND COMMUNICATED TO THE RTU CONTROLLER.

 6. AN ADAPTIVE OPTIMAL START PROGRAM SHALL START THE UNIT IN MORNING WARM-UP OR COOLDOWN IN ADVANCE OF THE SCHEDULED "OCCUPIED" TIME TO ENSURE PROPER SPACE TEMPERATURE AT OCCUPANCY TIME. MORNING WARM-UP SHALL END WHEN THE REPRESENTATIVE SPACE TEMPERATURE IS ABOVE 68 DEGF (ADJUSTABLE VIA THE BAS). MORNING COOLDOWN SHALL END WHEN THE REPRESENTATIVE SPACE TEMPERATURE IS BELOW 75 DEGF (ADJUSTABLE VIA THE
- BAS). THE REPRESENTATIVE SPACE TEMPERATURE WILL BE DETERMINED BY THE BAS AND COMMUNICATED TO THE RTU CONTROLLER.
 7. SAFETIES SHALL SHUT DOWN THE UNIT IN AN ORDERLY FASHION AND ALARM THE BAS
- THE AIR HANDLING UNIT COMPONENTS (DX COIL, GAS HEATER, ECONOMIZER, FAN SPEED, ETC.) SHALL BE SEQUENCED TO SATISFY THE "OCCUPIED" DISCHARGE AIR TEMPERATURE SETPOINT SET BY THE BAS. SUPPLY AIR TEMPERATURE SETPOINT FOR "WARM-UP" CYCLES SHALL BE 90 DEGF (ADJUSTABLE VIA THE BAS), AND 54 DEGF DURING "COOL-DOWN" CYCLES (ADJUSTABLE VIA THE BAS).
 MINIMUM OUTSIDE AIR CONTROL SHALL CONTROL TO THE MINIMUM OUTSIDE AIR CEM SETPOINT VIA THE AIRFLOW MEASURING STATION IN THE OUTSIDE AIR
- CFM SETPOINT VIA THE AIRFLOW MEASURING STATION IN THE OUTSIDE AIR
 INTAKE. CFM SETPOINT SHALL BE DETERMINED BY THE BAS AND COMMUNICATED
 TO THE RTU CONTROLLER.

 10. ECONOMIZER CONTROL SHALL BE A DIFFERENTIAL ENTHALPY SEQUENCE WITH AN
 "OFF" SETPOINT OF 75 DEGF DB OUTSIDE AIR TEMPERATURE. ECONOMIZER SHALL
 BE DISABLED WHEN OUTSIDE AIR TEMPERATURE FALLS BELOW 35 DEGF DB.
 MIXED AIR DAMPERS SHALL MODULATE TO MAINTAIN SUPPLY AIR TEMPERATURE.
- SUPPLY FAN SYSTEM SPEED SHALL MODULATE TO MAINTAIN THE DUCT STATIC PRESSURE SETPOINT SET BY THE BAS (ADJUSTABLE VIA THE BAS).
 RELIEF AIR FAN SHALL BE MODULATED BY A WALL-MOUNTED DP SENSOR-TRANSMITTER TO MAINTAIN A BUILDING PRESSURE OF +0.05" W.C.(ADJUSTABLE), REFERENCED TO OUTDOORS. RELIEF AIR FAN SHALL HAVE A SOFTWARE INTERLOCK WITH THE RTU SUPPLY FAN. HARD-WIRE THE ASSOCIATED ISOLATION
- DAMPER WITH THE RELIEF FAN OPERATION. THE SPACE PRESSURE DP READING SHALL BE COMMUNICATED TO THE RTU CONTROLLER FROM THE BAS.

 13. DX COIL IF THE RTU FAN SYSTEM IS "ON" AND THE ECONOMIZER IS ACTIVE AND AT 100 PERCENT (OUTSIDE AIR DAMPERS FULL OPEN) AND RTU SUPPLY AIR TEMPERATURE IS ABOVE SETPOINT, THE SOLENOID VALVES AND COMPRESSOR STEPPING /SPEED SHALL BE SEQUENCED TO SATISFY THE SETPOINT. IF THE RTU FAN SYSTEM IS "ON" AND THE ECONOMIZER IS NOT ACTIVE AND THE RTU SUPPLY AIR TEMPERATURE IS ABOVE SETPOINT, THE SOLENOID VALVES AND COMPRESSOR STEPPING / SPEED SHALL BE SEQUENCED TO SATISFY THE SETPOINT. PROVIDE ON AND OFF TIME DELAYS BETWEEN STEPS. USE SUPPLY FAN DRIVE SPEED INTERLOCK ALARM STATE, AS SPECIFIED IN POINTS LIST SCHEDULE, FOR INTERLOCK THRU SOFTWARE TO KEEP COOLING OFF UNLESS THE SUPPLY FAN SYSTEM IS OPERATING.
- 14. GAS HEATER MODULATE TO MAINTAIN DISCHARGE AIR SETPOINT.
 15. UV SYSTEM UV SYSTEM SHALL BE ON WHENEVER THE UNIT IS RUNNING.

- B. BAS SEQUENCES OF OPERATION
 1. ALL SEQUENCES SHALL COMPLY WITH ASHRAE STANDARD 90.1 2010 / 2013 / 2016 / 2019
- 2019.
 2. THE BAS VENDOR SHALL WORK WITH AND COORDINATE WITH THE RTU VENDOR TO PROVIDE A WELL COORDINATED CONTROL SYSTEM.
 3. OCCUPIED / UNOCCUPIED SCHEDULE SHALL BE DETERMINED BY THE OWNER,
- RESIDE IN THE BAS, AND PASSED TO THE RTU CONTROLLER.

 a. REFER TO RTU SEQUENCES ABOVE FOR ALTERNATIVE SCHEDULING OPTION AS DETERMINED BY THE RTU VENDOR.
- SPACE PRESSURE DP SENSOR-TRANSMITTER SHALL BE BY THE BAS AND SIGNAL COMMUNICATED TO THE RTU CONTROLLER FOR RELIEF FAN CONTROL AS SPECIFIED IN THE RTU SEQUENCES.

AVERAGE OF ALL EXTERIOR-ZONED ZONE TEMPERATURES AND COMMUNICATED

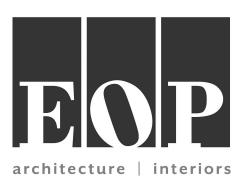
- THE OUTDOOR AIR TEMPERATURE AND HUMIDITY FOR THE NETWORK SHALL BE PASSED TO THE RTU CONTROLLER FOR ECONOMIZER CALCULATION PURPOSES AS SPECIFIED IN THE RTU SEQUENCES.
 "REPRESENTATIVE SPACE TEMPERATURE" SHALL BE CALCULATED BY TAKING THE
- "REPRESENTATIVE SPACE HUMIDITY" SHALL BE DETERMINED BY AN RH SENSOR MOUNTED IN A REPRESENTATIVE COMMON AREA AND COMMUNICATED TO THE RTU CONTROLLER AS SPECIFIED IN THE RTU SEQUENCES.

TO THE RTU CONTROLLER AS SPECIFIED IN THE RTU SEQUENCES.

- 8. UNOCCUPIED SPACE TEMPERATURE SETPOINTS AND SUPPLY AIR TEMPERATURE SETPOINTS SHALL BE COMMUNICATED TO THE RTU CONTROLLER AS SPECIFIED IN THE RTU SEQUENCES AS SPECIFIED IN THE RTU SEQUENCES.
 9. MINIMUM OUTSIDE AIR CFM FOR OCCUPIED MODE SHALL BE DETERMINED BY THE
- BAS AND COMMUNICATED TO THE RTU CONTROLLER AS SPECIFIED IN THE RTU SEQUENCES.

 10. SUPPLY DUCT STATIC PRESSURE SET POINT SHALL BE DETERMINED BY THE BAS AND COMMUNICATED TO THE RTU CONTROLLER AS SPECIFIED IN THE RTU SEQUENCES.
- 11. GENERAL BUILDING EXHAUST FANS SHALL ONLY OPERATE DURING OCCUPIED HOURS BUT SHALL BE SEPARATE START/STOP POINTS OF THE BAS.





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UK HealthCare Richmond

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UK Project#: 12566, 12567, 12568, 12569

ISSUANCES

No.	Description	Date
1	90% OWNER REVIEW SET	01/06/20
2	BID & PERMIT SET	02/07/20
4	ADDENDUM #2	03/21/20
	1	

CES
Checked By
BWS
Client No.

514

Project No.

CONTROLS

IC002

7 14.7000, FC, C

												ROO	FTOP I	HEATIN	1G & C	COOLII	NG UNI	TS - AIR	-COOL	ED DX	/GAS-FIRI	ED													
URAL GAS DE	IES BASED ON 95°F AMBIE IVERY PRESSURE TO UNIT ILATOR IF REQ'D FOR UNIT	IS 14" W.C. PROVIDE		TO UNIT H.C. ANI ELECTR	. ADEQUAC D UNIT SUPF IIC SERVICE	Y OF LISTE LIER. COS FOR EQUIF	POINT POWER SE D CIRCUIT SIZE N ST FOR INCREASE PMENT SELECTE LUG SIZE AND QU	UST BE VERIFIE OR CHANGE OF SHALL BE BOR	D BY NE	R E. U C D	VHEN APPLICA EQUIREMENTS INIT CONFIGUI OOLING COIL) RAW THRU; "H	S. RATIONS (SUI - "HDT" - HOF IBT" - HORIZO	PPLY FAN PO IZONTAL DRA NTAL BLOW	SITION RELA AW THRU; "VI THRU; "VBT" -	TIVE TO DT" - VERTIO	CAL	F. H	HEATING L.A.T.	S BASED ON	FULL UNIT C	FM AT LISTED E.A.	T. AND MBH	I OUTPUT.	G. IF EC MOTORS AI WITH FACTORY D ADJUSTABLE SPE WHEN REMOTE C AUTOMATION SYS	ISCONNECTING ED CONTROL, ONTROL IS SPI	MEANS, INT AND REMOTE	ERNAL OVER E ANALOG SP	LOAD PROTEC	TION, FIELD INPUT	O NOT INC CURB I: TRAP H	NCLUDE THE S	NIT HEIGHT INCLUI SPECIFIED CURB (I) TO BE INCREASEI N THE LISTED MAX	HEIGHT). IF THE H D, SUCH AS TO AC	IEIGHT OF T	THE SPEC
					~~~~	~~~~	~~~~~	~~~~~		,							,																		
		SI	JPPLY FAN			RE ⁻	TURN FAN	3			COOLING S	ECTION			HOT G		HEATING	SECTION	PRI	E-FILTERS	FINAL FILT	ERS	OUTSIDE	E AIR DIMEN	SIONS	MISC	ELLANEOUS		ELEC	CTRICAL SER	RVICE	SEISMIC RESTRAINTS	S BASI	OF DESIGN	 N
				SPEED (				PEED 5		DX-COOLI	NG COII		CONDEN	SING SECTION	ON																				
NOMINAL TONS  1-2-  UNIT CONFIGURATION	AREA SERVED	CFM (TOTAL)  EXTERNAL / TOTAL STATIC PRESSURE (IN. W.C.)	MOTOR (HP EACH)	VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE ( INTEGRAL PIEZO RING AIRFLOV		TOTAL STATIC PRESSURE (IN. W.C.)	FAN QTY MOTOR (HP EACH) ELECTRONICALLY COMMUTATED MOTORS		TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)  ENTERING AIR TEMPERATURE DB/WB (°F)	LEAVING AIR TEMPERATURE DB/WB (°F)	MAXIMUM AIR PRESSURE DROP (IN. W.C.)	MINIMUM STAGES OF COOLING (NOT INCLUDING "C	HOT GAS BYPASS  LOW AMBIENT OPERATION	HOT GAS REHEAT	HOT GAS REHEAT CAPACITY (MBH)  HEATING CAPACITY (MBH OUTPUT)	ENTERING AIR TEMPERATURE DB (°F)  LEAVING AIR TEMPERATURE DB (°F) (NOTE F)		FULL MODULATION THICKNESS / MERV	MAXIMUM FACE VELOCITY (FPM)  MAX. CLEAN AIR PRESSURE DROP (IN. W.C.)	THICKNESS / MERV	MAXIMUM FACE VELOCITY (FPM)  MAX CLEAN AIR PRESSURE DROP (IN. W.C.)	MINIMUM MINIMUM CFM / MAXIMUM MINIMUM CFM	ECONOMIZER INTEGRAL AIRFLOW STATION MAX UNIT LENGTH (INCHES)	MAX UNIT HEIGHT (INCHES) (NOTE I)	APPROXIMATE UNIT WEIGHT INCLUDING CURB (LB: ENERGY RECOV. SECTION (REFER TO SEPARATE S INTEGRAL 100% BAROMETRIC RELIEF	AIR BLENDER (REFER TO SEPARATE SCHED.) INTERNAL LIGHTS SERVICE RECEPTACLE	MINIMUM CURB HEIGHT	FULL LOAD AMPS (FLA)	MIN CIRCUIT AMPS (MCA) MAX OVER CURRENT PROTECTION (MOCP)	MINIMUM SCCR (AMPS)	FUSED DISCONNECT REQUIRED IMPORTANCE FACTOR	MANUFACTU		MODEL
7.5 12	IMAGING WAITING, SUPPORT	2,600 2.0 / 2.7 3,500 1.5 / 2.3	1 2.4 • 1 2.4 •		2,600 3,500	0.5 0.5	1 1.7 • 1 1.5 •		0 95.4 0 141.4	69.0 79.0/66 97.4 79.0/66		0.10 R32 0.15 R32			-	- 162.0 - 162.0		4 200			2" / MERV13 2" / MERV13			• 101.6" 73. • 73.5" 10		277 • 400 •		208		56.6 80 81.6 125		-	DAIKIN DAIKIN		PSC07B PSC12B
	EXAMS AND OFFICES	6,800 2.0 / 3.2			6,800		1 2.3 •			88.7 79.0/66		0.23 R32			-		36.9 92.9				2" / MERV13			• 202.5" 76.		262 •					75 10000	-	DAIKIN	DP	PSC25
	PT GYM	4,800 2.0 / 2.9			4,800	0.5	1 2.4 •		0 202.8			0.17 R32			-	- 243.0					2" / MERV13			• 202.5" 76.		979 •		208		99.0 150		-	DAIKIN		PSC18I
	PHARMACY	2,600 1.5 / 2.2			2,600	0.5	1 1.7 •			69.0 79.0/66		0.10 R32			-	- 162.0		.4 200			2" / MERV13			• 73.5" 10		500		208	-3 50.1	56.6 80		-	DAIKIN		PSC07
	X-RAY		1 1.7		1,800		1 1.2 •	- 1		55.2 79.0/66		0.06 R32			-		30.9 130.				2" / MERV13			• 73.5" 10		250 • 110 •			-3 47.4				DAIKIN		PSC07
	СТ	1,300 1.5 / 2.3	1   1.7   •	{	1,300	0.0	1 0.5 •	}	20 52.6	35.6 79.0/66	.∠   52.1/52.2	0.13 R32	:   1		-	- 64.8	30.9 116.		CVCT		2" / MERV13	190   0.09		◆ 84.5" 53.	5"   69.5"   1	110   •	} {	, '	-3 32.9	37.5 50	0   10000		DAIKIN	БР	PSC05E
																		SPLII	SYSIL	IVI AC	UNITS														

													,	SPLI	TSYSTE	EM A	C UNI	rs -																	
DESIGN B. CONDE CONDI C. CONDE	S NOTED OTHERWISE, CAPACITIES SHALL BE N CONDITIONS OFDB /WB COOLING; _ ENSING UNIT COOLING CAPACITY SHALL BE B	DB HEATING BASED ON 95°F	i. AMBIENT	E. F N	WHEN APPLICA YPES AND SEIS REFRIGERANT I IUMBER OF PIP ICCORDANCE V	SMIĆ RESTRAIN PIPING - SIZES I ES AND CIRCU	NT REQUIRE LISTED ARE IITS, ARRAN	EMENTS. E APPROX. CI IGEMENT, ET	RCUITING, S C. SHALL BE	SIZING,	P A S	OWER SE DEQUAC' UPPLIER.	RVICE CO OF LISTE COST FO	NNECTION OF THE PROPERTY OF TH	JTDOOR UNIT A ONS TO EACH I JIT SIZES MUST EASE OR CHAN LL BE BORNE B	UNIT. UN T BE VER IGE OF EL	NLESS NOTE	D OTHER	RWISE, NIT	COI	MPATIBLE	IL CONDENSATE F WITH INDOOR FAI FAN COIL UNIT SIN	OOIL UNIT V	OLTAGE AN	D POWER		1	PRO PRO SPE	VIDED W TECTION ED CONT	WITH FACT N, FIELD AI TROL INPL	TORY DISC ADJUSTABL	ONNECTINO LE SPEED C REMOTE CO	ED, EACH MOTO G MEANS, INTERI ONTROL, AND RI ONTROL IS SPEC	NAL OVERLOA EMOTE ANALO	OG
	R FOR INDOOR UNIT IS TO BE FED THRU THE R SUPPLY.	OUTDOOR UNI	Т		JNIT SHALL BE (	CONTROLLED E	BY BAS ONL	Y WITH NO L	OCAL THER	MOSTAT																									
									INDO	OR UNIT																		OUTDOO	R COND	ENSING U	JNIT - AIR C	OOLED			
		TYPE	LOCATI	ION	FAN	I	DX	COOLING		FILTERS	ELECTRIC HE REHEAT	EAT /	ELE	ECTRICA	AL SERVICE	A	APPROX. DIN	MENSION	S Û	SE RES	EISMIC TRAINTS	BASIS OF	DESIGN				ELECT	RICAL SE	RVICE		S' RES	EISMIC STRAINTS	BASIS OF	DESIGN	
MARK	DESCRIPTION  WALL MOUNTED AIR CONDITIONING UNIT	CEILING-MOUNTED CEILING-MOUNTED CEILING RECESSED DUCTED	ROOM NAME		CFM EXTERNAL STATIC PRESSURE (IN. W.C.)	MOTOR (HP)  ELECTRONICALLY COMMUTATED MOTOR	TOTAL CAPACITY (MBH)  SENSIBLE CAPACITY (MBH)	ENTERING AIR TEMPERATURE DB/WB (°F)	LEAVING AIR TEMPERATURE DB (°F)	MAXIMUM FACE VELOCITY (FPM)	KW MINIMUM NO. STAGES (NOT INCLUDING "OFF")	SCR CONTROL SERVED THRU OUTDOOR UNIT (NOTE 1)	VOLTAGE - PHASE	FULL LOAD AMPS (FLA)	MIN CIRCUIT AMPS (MCA)  MAX OVER CURRENT PROTECTION (MOCP)	MINIMUM SCCR (AMPS)	LENGTH	HEIGHT	COOLING COIL CONDENSATE DRAIN PUMP (NO	VIBRATION ISOLATOR TYPE REQUIRED	IMPORTANCE FACTOR	MANUFACTURER	MODEL	MARK	NOMINAL TONS (SIZED TO MATCH COIL)	VARIABLE SPEED COMPRESSOR(S)  VOLTAGE - PHASE	FULL LOAD AMPS (FLA)	MIN CIRCUIT AMPS (MCA)	MAX OVER CURRENT PROTECTION (MOCP)	MINIMUM SCCR (AMPS)	VIBRATION ISOLATOR TYPE REQUIRED	IMPORTANCE FACTOR	MANUFACTUREF		HOT GAS BYPASS
	WALL MOUNTED AIR CONDITIONING UNIT	•	DATA	713	700		36 25	90.0/73.0 6				-   -	208-1 0 208-1 0	I .		10000	46" 12' 46" 12'		-	-	-	MITSUBISHI MITSUBISHI	PKA-A36KA PKA-A36KA		3	<ul><li>208-1</li><li>208-1</li></ul>	1.0			10000		-	MITSUBISHI MITSUBISHI	PUY-A36Nk	
AC-1 AC-2	WALL MOUNTED AIR CONDITIONING UNIT	•	ELECTRICAL	L 714	700	56 -	36 25																												

CENTERAL NOTES   A LEGERING SERVING - SINGLE POINT POWER CONNECTION WITH INTEGRAL CONTROL STRANGE CONTROL AS SPECIFICAL AIR PROVING INTEGRAL ACCURATIONS FOR SEISMIC RESTRANT SERVING FOR HIS PROVING PART ALL SERVING FOR SEISMIC RESTRANT SECURITIES FOR HIS PROVING PART ALL SERVING FOR SEISMIC RESTRANT SECURITIES FOR ALL SERVI													E	LEC	CTR	IC H	UM	IDIFI	ER	S														
1. ULTRA-SORB MODEL LY HUMIDIFIER GRID   1. VERLIGHT   VALUE   VALUE	A. ELECTI INTEGF CIRCUI COST F	RIC SERVICE - SINGL RAL CONTROLS TRAN IT SIZE MUST BE VER FOR INCREASE OR CH	SFORMER. FIED BY H.O HANGE OF E	ADEQUACY OF LIS C. AND UNIT SUPPL ELECTRIC SERVICE	TED IER.		SWITCH, HI ACCESSOR STEAM JAC FUNCTION	GH RH LI IES PER KET HUN	MIT, SPA THE SPE MIDIFIERS	CE HUM CIFICATI S SHALL	IIDITY S IONS. INCLUE	ENSOR . DE AUTO	STAT, A	and ot Tion v <i>a</i>	THER ALVE	NG [	D. WH REG	EN APPL QUIREME	ICABLE	E, REFE	R TO SI	PECIFIC/	ATIONS	FOR SE	ISMIC F	RESTRAII	NT							
TYPE		-SORB MODEL LV HUI	MIDIFIER GF	RID																														
MANK   MIN CHECK   MAX   MIN			TYPE					PERF	ORMANO	Œ				DIS	SPERSI	ON DEVI	CE	N	ЛАКЕ-L	JP WAT	ER		ELECT	RICAL S	SERVIC	E		М	IISC.		SEISMIC RESTRAIN	S BASIS OF I	DESIGN	
	MARK	DESCRIPTION	ECTRODE ECTRIC RESISTANCE IMMI	SERVICE	E CONDITIONS	(DB /	AVING AIR TEMPERATURE (DB / %	MOM MOM	MAXIMUM CFM	/ HR OUTPUT (AT MAX.	тотак кw	STAGES	EAM OUTLET (QTY / SIZ	RIICAL I UBE	ACKET	NUMBER OF DISTRIBUTION DISPERSION DISTANCE	PRESSURE DROP (IN. W.	WATER CONNECTION SIZE	CONNECTION SIZE	TENED TAP WATER (50°F) VED TAP WATER (50°F)	SE OSMOSIS WATER (50° E)	GE - PHA	LOAD AMPS (FL.	CIRCUIT AMPS	OVER CURRENT PROTECTION	SCCR (AMP.	/ CASING WIDTH (NOTE	T / CASING HEIGHT (NOTE	PROX. OPERATING WEIGHT	IER GRID DRAIN COOL!	QUIRED	MANUFACTURER	MODEL	Ш
			- •					0										1 0.75"	•					-	-					• -				1

	AIR DIS	TF	RIB	BU ⁻	TIC	DN	D	E	VIC	CES	5					
VERIFY 3. FINISH "E.C.L."	NOTES: Y-IN AIR DEVICES SHALL FIT IN 24"X24" LAY-IN CLG SYSTEM. Y GRID TYPE AND COORDINATE AIR DEVICE COMPATIBILITY. I KEY: "W.B.E." - WHITE BAKED ENAMEL; ' - ETCHED CLEAR LACQUER OR ANODIZED; A." - CUSTOM COLOR SELECTED BY ARCHITECT.				D. I	NDIC PRO	ATE VIDE	D O	THE X. FF	RWISE RAMES	ON [ FOR	ORA\ AIR	VING DEV	NAY BLOW, UNLESS S. CES IN PLASTER, RD SURFACES.		
NOTES: 1.																
		M	NUC	TING	TY	PE	MA	TER	IAL	FIN	SH	œ	<u>~</u>	BASIS C	F DESIGN	
MARK	DESCRIPTION	LAY-IN	SURFACE	DUCT	SPLINE	SNAP-IN	STEEL	ALUMINUM	STAINLESS STEEL	W.B.E.	C.C.B.A.	OPPOSED BLADE DAMPER	SQ-TO-RD NECK ADAPTOR	MANUFACTURER	MODEL	SEE NOTE
A10	STANDARD SQ. PLAQUE CEILING DIFFUSER - ROUND NECK - 24 X 24	•						•		•				TITUS	OMNI	
F10	SIDEWALL GRILLE - SUPPLY		•					•		•				TITUS	300FL	
J10	PERFORATED CEILING GRILLE	•						•		•				TITUS	PAR-AA	
K10	PERFORATED CEILING GRILLE, EXHAUST	•						•		•				TITUS	PAR-AA	
K11	PERFORATED CEILING GRILLE, EXHAUST		•					•		•				TITUS	PAR-AA	
K12	SIDEWALL GRILLE, EXHAUST		•					•		•				TITUS	350FL	
S10	LINEAR PLENUM SLOT - ADJUSTABLE BLADE DIFFUSER	•						•		•		•		TITUS	FL-20 (1) 2" SLOT	
S20	LINEAR PLENUM SLOT - ADJUSTABLE BLADE DIFFUSER		•					•		•		•		TITUS	FL-20 (1) 2" SLOT	

GENERAL NOTES: A ELECTRIC SERVICE - SINGLE POINT POWER SERVICE CONDINECTION TO UNIT BY ELECTRICAL CONTRACTOR, COORDINATE WITH DIV SAND UNIT SUPPLIER, COST. FOR INCREASE OR CHANGE OF ELECTRICAL SERVICE FOR EQUIPMENT SELECTED SHALL BE BORNE BY HVAC CONTRACTOR.  NOTES: 1. FAN SHALL BE CAPABLE OF SPECIFIED AIRFLOW THEN UNIT WHEN REMOTE AND UNIT SHALL BE CAPABLE OF FILTER(S). 2. PROVIDE WITH BOULDING AUTOMOTION SYSTEM.  NOTES: 1. FAN SIZE MTG FAN SHALL BE CAPABLE OF SPECIFIED AIRFLOW SIZE MOTOR SHALL BE CAPABLE OF FILTER(S). 2. PROVIDE WITH BOACHT FLOW CONTROLLER. 3. 12' DIA DUCT CONNECTION  2. PROVIDE WITH BOACHT FLOW CONTROLLER. 3. 12' DIA DUCT CONNECTION  AWAY OF THE WORLD AND REAL SERVICE BASIS OF DESIGN RESTRAINTS  BASIS OF DESIGN RESTRAINTS  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS.  C. WHEN APPLICABLE, WITH A PROVIDED MITH AND A PRO			FAN FII	LTER CE	EILING MO	DULE	S			
1. FAN SHALL BE CAPABLE OF SPECIFIED AIRFLOW THRU MODULE AND FILTERS FOR LIFE OF FILTER(S).  2. PROVIDE WITH BACNET FLOW CONTROLLER.  3. 12° DIA. DUCT CONNECTION  SEISMIC RESTRAINTS  WODULE SIZE MTG FAN FILTER ELECTRICAL SERVICE BASIS OF DESIGN RESTRAINTS  GE - PHASE GAPABLE OF SPECIFIED AIRFLOW (N. N. C.)  ADDITION (MOCOL) (N. N. C.	A. ELECTRIC SERVICE - SINGL CONNECTION TO UNIT BY E COORDINATE WITH DIV 26 A FOR INCREASE OR CHANGE FOR EQUIPMENT SELECTEI	ELECTRICAL CONTRA AND UNIT SUPPLIER. E OF ELECTRICAL SE	ACTOR. EACH MC COST FACTOR' RVICE OVERLOA SY SPEED C SPEED C CONTRO	OTOR SHALL BE Y DISCONNECTI AD PROTECTIOI CONTROL, AND F CONTROL INPUT IL IS SPECIFIED,	PROVIDED WITH ING MEANS, INTERNAN, FIELD ADJUSTABL REMOTE ANALOG WHEN REMOTE COORDINATED WIT	AL LE				NS
SED (HARD CEILING) SED (HARD CEI	1. FAN SHALL BE CAPABLE OF THRU MODULE AND FILTER					₹.		-		
SED (HARD CEILING)			FILTER	ELEC	TRICAL SERVICE		BASIS OF DESIGN	_		
	MARK 2 FT X 2 FT 2 FT X 4 FT 4 FT X 4 FT LAY-IN RECESSED (HARD	CFM WATTS ELECTRONICALLY COMMUTATED	·	VOLTAGE - PHASE FULL LOAD AMPS	MIN CIRCUIT AMPS (M	MINIMUM SCCR			IMPORTANCE FACTOR	1





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**UK HealthCare Richmond** 

2091 Lantern Ridge Dr Richmond, KY 40475

# UK Project#: 12566, 12567, 12568, 12569

ISS	UANCES	
No.	Description	Date
1	90% OWNER REVIEW SET	
2	BID & PERMIT SET	02/07/20
3	ADDENDUM #1	03/14/20
4	ADDENDUM #2	03/21/20
	1	

**HVAC SCHEDULES** 

M002

l	HVAC D	ESIGN	DATA		
GENERAL NOTES:  A. OUTDOOR DESIGN CONDITED SUMMER  74°F WB SUMMER  1°F DB WINTER	ΓIONS:	B. DESI	GN ALTITUDE	: 850 FT.	
NOTES: 1. LISTED RH IS MAXIMUM AN 2. REFER TO ATC SEQUENCE 3. "FLOATING" MEANS THERE 4. OUTDOOR AIR VENTILATIO	S FOR ACTUA IS NO ACTIVE	L ROOM SET		i.	
		INTERIOR D	ESIGN DATA		
	SUM	IMER	WIN	TER	
SPACE NAME / TYPE	°F DB	% RH (NOTE 1)	°F DB	% RH	SEE NOTE
OFFICES	74	55	72	FLOATING	2,3
CT, X-RAY	72	50	72	20	-
MAMMOGRAPHY	72	50	72	FLOATING	3
DATA CLOSETS	78	FLOATING	68	FLOATING	3
ALL OTHER SPACES	74	55	72	FI OATING	3

												AIR	CU	RTA	AIN I	UNI ⁻	TS															
. SINGL	NOTES: E POINT POWER CONNECTION. COORDINATE POWRICAL CONNECTIONS.	/ER REQUIREMENTS	S AND				FAC SPE	CTORY D	ISCONN ITROL, A	INDICAT IECTING AND REM RDINATE	MEANS IOTE AN	, INTEF	RNAL O' SPEED	VERLO, CONTE	AD PRO	OTECTION OTECTION OF THE PUT WE	ON, FIEL IEN REM	D ADJU	STABLE				EN APPLICA			O SPEC	SIFICATIO	NS FOR V	/IBRA	ATION ISOLATOR TYPES	AND SEISMIC	
OTES: UNIT R	EQUIRES TWO POWER CIRCUITS, AMPERAGES LIS	TED ARE FOR EACH	POWER (	CIRCUIT	Γ.																											
		LOCATION	I	Т	YPE		CAPACIT	Υ	NO	ZZLE	SU	JPPLY	FAN(S)	)		DIMEN	SIONS			ELECT	RICAL	SERVICE		N	1ISCELL	ANEOU		SEISMIC ESTRAINT		BASIS OF DE	ESIGN	
MARK	DESCRIPTION	ROOM NAME	ROOM NUMBER	NO HEAT HOT WATER	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Σ	MBH	ELEC.	CEILING RECESSED EXPOSED	MAXIMUM VELOCITY (FPM)	TOTAL CFM	MOTOR QUANTITY	MOTOR (HP / KW) EACH	ELECTRONICALLY COMMUTATED MOTORS	UNIT LENGTH	UNIT HEIGHT	UNIT DEPTH	APPROXIMATE WEIGHT (LBS)	VOLTAGE - PHASE	FULL LOAD AMPS (FLA)	MIN CIRCUIT AMPS (MCA)	MAX OVER CURRENT PROTECTION (MOCP)	MINIMUM SCCR (AMPS)	MAX SOUND LEVEL (dB)	DOOR SWITCH	REMOTE SIGNAL SIGNAL	STARTER / CONTROL PANEL	g   g		MANUFACTURER	MODEL	SEE NOTE
AD-1	ARCHITECTURAL RECESSED AMBIENT AIR CURTAIN	100-WAITING	-	-   -	- •	3174	95.6	28.0	• -	6500	3100	2	1/2	-	77"	15"	26"	200	208-3	47.5/38.9	60/50		10000	65	-	-				BERNER	ARD12	1
AD-2	ARCHITECTURAL RECESSED AMBIENT AIR CURTAIN	400-WAITING	-		- •	3174	95.6	28.0	• -	6500	3100	2	1/2	-	77"	15"	26"	200	208-3	47.5/38.9	60/50		10000	65	-	-				BERNER	ARD12	1

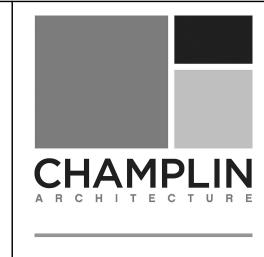
HV	AC D	UCT	CC	ONS	STRUCT	ΓΙΟΝ			
GENERAL NOTES: A. REFER TO SPECIFICATIONS FOR DUC SHEET METAL DUCT; INTERIOR LINING INSULATION; FIBERGLASS DUCTBOAR	G; EXTERIC		N:		JCT CONSTRU TEST S.M.A.C			ALL BE PER	
NOTES: 1. ROUND SHEET METAL RUN-OUTS TO 2. RETURN DUCTWORK WITHIN 15' OF A 3. AIR DEVICES ARE DIRECTLY CONNEC 4. WATERTIGHT SEAL. 5. FIRE WRAPPED, PER CODE REQUIREI 6. ALUMINUM DUCTWORK. 7. STAINLESS STEEL DUCTWORK. 8. REFER TO DETAIL 9 ON SHEET M501. 9. INSULATE FROM 24" UPSTREAM OF B. 10. CONCEALED ROUND RUNOUT DUCT	IR HANDLII TED TO SL MENTS. ACKDRAFT	NG UNIT JPPLY D	SHAL UCT.	L BE I	NTERNALLY L	INED.			).
	S.M.A	.C.N.A. (	CLASS	S.					
				KAGE ASS	-		DOUBLE		
DUCT SYSTEM	S.P. CON- STRUCT.		RECT	RND	INTERNALLY LINED	EXTERNAL INSULATION	WALL	NOT INSULATED	SEI NOT
SUPPLY DUCTWORK UPSTREAM OF VAV BOXES	+2"	А	8	4	-	•	-	-	-
SUPPLY DUCTWORK DOWNSTREAM OF VAV BOXES	+1"	А	16	8	•	-	-	-	1
RETURN DUCTWORK	-2"	А	16	8	-	-	-	•	2,10
TRANSFER/RETURN AIR SOUND BOOT	-1"	А	16	-	•	-	-	-	8
TOILET OR GENERAL EXHAUST DUCTWORK	-1"	А	16	8	-	NOTE 9	-	-	-

				STE	AM	CON	IDE	<b>NS</b>	ATE	PU	MPS	- EL	EC1	RIC												
A. ELECT FACTO B. PUMP C. EACH	L NOTES: TRIC SERVICE - SINGLE POINT POWER CONNECTION TO UNIT. DRY WIRED TRANSFORMER FOR CONTROLS. 'S SHALL BE FACTORY WIRED TO ASSOCIATED STARTER/DISCONNECT. PUMP ASSEMBLY SHALL INCLUDE ISOLATION VALVE ON INLET; GLOBE E, CHECK VALVE, P/T TEST PLUG, AND ISOLATION VALVE ON DISCHARGE.	TA	NK ELEV	/ATION.		ED WITH						INT REQ	QUIREME	ENTS.												
	DISPERSION GRID AND STEAM GENERATOR IS TO BE PROVIDED WITH STEAM SENSATE PUMP BY THE HUMIDIFIER MANUFACTURER.															,										
<u> </u>						PUMP	PS				RFC	EIVER T	ANK		OVERA	ALL DIME	NSIONS	FLECT	RICAL S	SERVICE	MISC.	SEISM RESTRAI		BASIS OF D	FSIGN	
MARK	DESCRIPTION		CAPACITY (EDR)	SIMPLEX A DUPLEX	GPM (EACH)	DUTY (PSIG)	(HP, EA	MOTOR RPM	VOLTAGE - PHASE	CAPACITY (GAL)	RETURN CONNECTION SIZE	VENT SIZE	OVERFLOW SIZE	DRAIN SIZE	LENGTH	WIDTH	НЕІСНТ	VOLTAGE - PHASE	MAX OVER CURRENT PROTECTION (MOCP)	MINIMUM SCCR (AMPS)	CONCRETE PAD CONTROL PANEL		MPORTANCE FACTOR	MANUFACTURER	MODEL	
CP-1	PLENUM RATED ELECTRIC CONDENSATE PUMP STEAM GENERATORS AND DISPE	DSION CDIDS		• -			_	_		1	0"	0"	0"	0"	12"	6"	10.5"	+-		10000		_	-	HARTELL	A5	+

"V.V.R. "C.V.R. " !	S - "V.V.", \	/ A D I 4	۰ ۱ ۱	- \/0						, ₋ -	E07	יייי פייי	VICE TO	1 2 DI 14 C	E LINUTO O	ם יואוי ה	) <u></u>	
REHEA	", VARIABI ", CONSTA MAXIMUM UNIT AND AT COIL CA IUM CFM A	LE VO ANT \ STAT COIL APAC	OLUM /OLU FIC F . AT I	ME R JME PRES MAX S BA	EHEAT; REHEAT SSURE D IMUM CF ASED ON	ROP FM.	G		E	3-\ SE SE UN	WIRE HEN ISM REH IIT, F	E UNLESS APPLICA IC RESTA IEAT COI	S NOTED ABLE, RE RAINT RI L IS FUR DUCT T	OTHER FER TO EQUIREN RNISHED RANSITI	SPECIFICA MENTS. SEPARAT	ATIONS ELY FR		
		MII	NIM	UM														
			NLE [.] SIZE			CF	-M					REHE	AT COIL			_	EISMIC TRAINTS	ı
												EL	ECTRIC	AL SER	/ICE			ı
MARK	TYPE	DIAMETER	WIDTH	неіснт	COOLING MAXIMUM	DEAD BAND MINIMUM	REHEAT MAXIMUM	HEATING MAXIMUM	KW	STAGES	SCR CONTROL	VOLTAGE - PHASE	MIN CIRCUIT AMPS (MCA)	MAX OVER CURRENT PROTECTION (MOCP)	MINIMUM SCCR (AMPS)	REQUIRED	IMPORTANCE FACTOR	SEE NOTE
1-1	V.V.R.	10"			800	235	400	400	4.5	-	•	208-3	17.0	20.0	10000	-	-	·
1-2	V.V.R. V.V.R.	8" 6"			375 150	190 100	190 100	190 100	2.1	-	•	208-3 120-1	7.9 12.5	15.0 15.0	10000	-	-	
1-4	V.V.R.	6"			150	30	75	75	0.9	-		120-1	10.2	15.0	10000	_	-	
1-5	V.V.R.	10"			735	665	665	665	7.4	-	•	208-3	28.0	30.0	10000	-	-	
2-1	V.V.R.	14"			1,700	340	850	850	9.5	-	•	208-3	35.9	40.0	10000	-	-	
2-2	V.V.R.	8"			400	90	200	200	1.7	-	•	208-3	6.4	15.0	10000	-	-	
2-3	V.V.R. V.V.R.	6" 8"			350 450	300 100	300 225	300 225	2.7	-	•	208-3	10.2 9.5	15.0 15.0	10000	-	-	1
3-1	V.V.R.	10"			675	200	340	340	3.8	-	•	208-3	14.4	15.0	10000	-	-	
3-2	V.V.R.	12"			1,025	330	515	515	5.8	-	•	208-3	21.9	25.0	10000	-	-	
3-3	V.V.R.	12"			935	925	925	925	7.4	-	•	208-3	28.0	30.0	10000	-	-	
3-4	V.V.R.	14"			1,250	250	625	625	7.0	-	•	208-3	26.5	30.0	10000	-	-	
3-5 3-6	V.V.R. V.V.R.	10"			825 700	165 630	415 630	415 630	4.7 5.4	-	•	208-3	17.8 20.4	20.0 25.0	10000 10000	-	-	
3-6	V.V.R.	8"		$\vdash$	500	320	320	320	2.6	-	•	208-3	9.8	15.0	10000	-	-	
3-8	V.V.R.	8"			500	320	320	320	2.6	-	•	208-3	9.8	15.0	10000	-	-	
4-1	V.V.R.	6"			350	210	210	210	2.4	-	•	208-3	9.1	15.0	10000	-	-	
4-2	V.V.R.		24"	16"	2,400	1,095	1,200	1,200	9.9	-	•	208-3	37.4	40.0	10000	-	-	
4-3	V.V.R.	8"			575	115	290	290	3.3	-	•	208-3	12.5	15.0	10000	-	-	
4-4	V.V.R.	10"			675	135	340	340	3.8	-	•	208-3	14.4	15.0	10000	-	-	
4-5 5-1	V.V.R. V.V.R.	6" 14"		$\vdash$	325 1,500	65 675	165 750	165 750	1.4 8.4	-	•	120-1 208-3	15.9 31.8	20.0 35.0	10000 10000	-	-	
5-1	V.V.R.	8"		$\vdash$	550	110	275	275	3.1	-	•	208-3	11.7	15.0	10000	-	-	
5-3	V.V.R.	6"			225	45	115	115	0.9	-	•	120-1	10.2	15.0	10000	-	-	
6-1	V.V.R.	12"			1,020	320	510	510	4.9	-	•	208-3	18.5	20.0	10000	-	-	
6-2	V.V.R.	6"		П	200	40	100	100	0.9	-	•	120-1	10.2	15.0	10000	-	-	

SERVICE ON A LA L	AND SHALL BEAR THE A.M.C.A. LABEL.  B. SONES VALUES BASED ON A.M.C.A. 301 MEASURED AT 5 FT.  C. MOTOR HORSEPOWERS LISTED SHALL BE CONSIDERED MINIMUM.  D. ROOF & WALL OPENINGS ARE APPROX. VERIFY SIZE & COORDINATE.  G.	FANS  COORDINATE STEEL FRAMING AROUND ROOF OPENING WHERE REFOR DECK SUPPORT, AND WALL LINTELS FOR WALL OPENINGS. WHEN APPLICABLE, REFER TO SPECIFICATIONS FOR VIBRATION ISO TYPES AND SEISMIC RESTRAINT REQUIREMENTS.  VFD'S SHALL BE CONSTRUCTED AND LABELED FOR REQUIRED SCC	BE PROVIDED WITH FACTO LATOR OVERLOAD PROTECTION, REMOTE ANALOG SPEED O R SPECIFIED, COORDINATED	ATED OR SPECIFIED, EACH MOTOR SHALL DRY DISCONNECTING MEANS, INTERNAL FIELD ADJUSTABLE SPEED CONTROL, AND CONTROL INPUT WHEN REMOTE CONTROL IS D WITH THE BUILDING AUTOMATION SYSTEM.
MARK  TYPE (REFER TO SPECS)  TYPE (REFER TO SPECS)  CONNECTED CFM  FAN CFM  STATIC PRESSURE (IN. W.C.)  VOLTAGE - PHASE  ELECTRONICALLY COMMUTAT  ECM MCA (AMPS, TOTAL)  VORTAGE - PHASE  ELECTRONICALLY COMMUTAT  ECM MCA (AMPS, TOTAL)  VARIABLE FREQUENCY DRIVE  MINIMUM SCCR (AMPS)  MINIMUM SCCR (AMPS)  NIBRATION ISOLATOR TYPE  MINIMUM SCCR (AMPS)  SEE NOTE  SEE NOTE  SEE NOTE		мото		
FF-1 DIRECT DRIVE DOWNBLAST CENTRIFUGAL GENERAL EXHAUST 910 1200 0.7 13 11.5 1/2 115-1 - 8.2 15 - 10000 14.5x14.5 80 GREENHECK G-120-VG	OT AARK THEFER TO DESCRIPTION SERVICE	CONNECTED CFM  FAN CFM  STATIC PRESSURE (IN. W.C.)  APPROX. WHEEL DIAMETER  MAXIMUM SONES  HORSEPOWER (HP)  VOLTAGE - PHASE  ELECTRONICALLY COMMUTAT  ELECTRONICALLY COMMUTAT  ECM MCA (AMPS, TOTAL)	ECM MOCP (AMPS, TOT.  VARIABLE FREQUENCY  MINIMUM SCCR (AMPS)  APPROX. ROOF/WALL O  APPROX. WEIGHT (LBS.  VIBRATION ISOLATOR T	REQUIRED MODEL SEE NOTE

							E	LEC	TRI	C UN	IIT F	HEA ⁻	ERS	<b>3</b>											
B. ELECT INTEGI CIRCUI COST I EQUIPI C. ELECT	NOTES:  NG CAPACITY BASED ON°F EN' FRIC SERVICE - SINGLE POINT POWE RAL CONTROLS TRANSFORMER. AI IT SIZE MUST BE VERIFIED BY H.C. A FOR INCREASE OR CHANGE OF ELE MENT SELECTED SHALL BE BORNE FRICAL SERVICE TO 3-PHASE UNITS E UNLESS NOTED OTHERWISE.	ER CONNECTION WITH DEQUACY OF LISTED AND UNIT SUPPLIER. CTRIC SERVICE FOR BY H.C.			E. VE & F. RE UN	CROSS E ERIFY / ( RECESS ECESSE NLESS N OORDIN	EACH PHOOORDII S REQUIF D UNITS IOTED O IATE LIN	IASE. NATE CAREMENT SHALL THERW TELS IN	ABINET IS PRIC HAVE VISE. I MASC	E DIVIDED IT DIMENS OR TO OF FOUR(4): DNRY WAL PENINGS.	IONS, M RDERING SIDE O\	IOUNTIN G. /ERLAP	G			I.	BE PRO' OVERLO REMOTE IS SPEC WHEN AI	VIDED W DAD PRO E ANALO IFIED, CO PPLICAB	ITH FACTON TECTION G SPEED OORDINA LE, REFE	CATED OR SPE TORY DISCONI N, FIELD ADJUS D CONTROL INF ATED WITH THE ER TO SPECIFIC EISMIC RESTRA	NECTING TABLE S PUT WHE BUILDI CATIONS	S MEANS, SPEED CO EN REMOT NG AUTOI S FOR VIBI	INTERNA INTROL, I'E CONT MATION RATION	AL AND ROL	
NOTES: 1.																									
				FAN			HEAT	ING			ELE	CTRICA	SERVIO	CE		P	APPROX. DIMEN		Т			ISMIC TRAINTS	THERN	MOSTAT	
MARK	DESCRIPTION	MOUNTING	CFM	MOTOR (HP)	ELECTRONICALLY COMMUTATED	CAPACITY(MBH)	KW (MIN)	KW (MAX)	STAGES	VOLTAGE - PHASE	FULL LOAD AMPS (FLA)	MIN CIRCUIT AMPS (MCA)	MAX OVER CURRENT PROTECTION (MOCP)	MINIMUM SCCR (AMPS)	INTEGRAL DISCONNECT	WIDTH	DEPTH	неіснт	RECESS	VIBRATION ISOLATOR TYPE	REQUIRED	IMPORTANCE FACTOR	UNIT MOUNTED	WALL MOUNTED	SEE NOTE
UH-1	HORIZONTAL DUCTED UNIT HEATER	ABOVE CEILING	650	1/6	-	17.1	-	5	1	208-3	15	20	20	10000	-	18"	36"	14"	0"		-	-	-	-	
UH-2	HORIZONTAL DUCTED UNIT HEATER	ABOVE CEILING	650	1/6	-	17.1	-	5	1	208-3	15	20	20	10000	-	18"	36"	14"	0"		-	-	-	-	
UH-3	PROPELLER UNIT HEATER	HORIZONTAL SUSPENDED	350	1/100	-	17.0	-	5	1	208-3	24			10000	-	14"	7.5"	16"	14"		-	-	-	-	





201 W Short Street, Suite 700 Lexington, KY 40507 T 859.231.7538







# UK HealthCare Richmond

2091 Lantern Ridge Dr Richmond, KY 40475

UK Project#: 12566, 12567, 12568, 12569

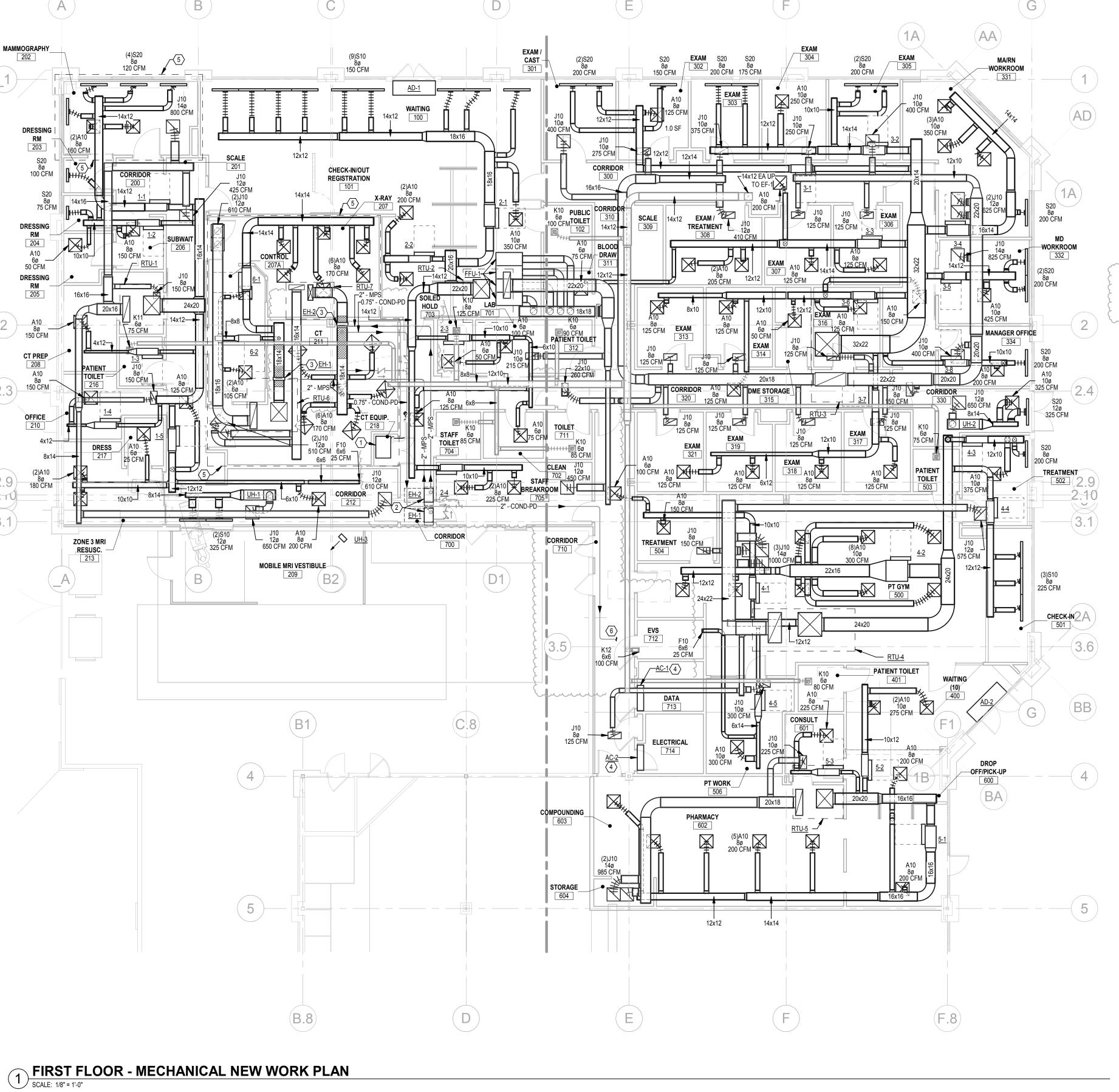
ISS	UANCES	
No.	Description	Date
1	90% OWNER REVIEW SET	01/06/2025
2	BID & PERMIT SET	02/07/2025
4	ADDENDUM #2	03/21/2025

Drawn By	2024-0510	09
CES	2024-0510 0F KEA	WWW.
Checked By	MICHAEL	
BWS	RYAN McCOLLU	м
Client No.	RYAN McCOLLU 29834 CENSE	W SER
514	JUNIONAL E	HHHHHH
Project No.	03/21/2	5

7484 HVAC SCHEDULES

M003

// ///// 1.15.47 DM





A. REFER TO ZONING PLAN SHEET M004 FOR THERMOSTAT LOCATIONS - NOT SHOWN HERE FOR CLARITY.

## ○ NOTES

- 1 CHILLED WATER SUPPLY AND RETURN FROM CT CHILLER ON ROOF SHALL BE CONNECTED TO CT HEAT EXCHANGER. SEE SITE SPECIFIC IMAGING EQUIPMENT DRAWINGS.
- 2 ELECTRIC STEAM GENERATOR MOUNTED ABOVE CEILING EQUAL TO DRISTEEM RTS. STEAM AND CONDENSATE SHALL BE PIPED FROM GENERATOR TO DUCT MOUNTED HUMIDIFIER GRID PER MANUFACTURER'S SPECIFICATIONS. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.
- 3 DUCT MOUNTED HUMIDIFIER, REFER TO SCHEDULE. DUCTWORK 1'-0" UPSTREAM AND 5'-0" DOWNSTREAM OF HUMIDIFIER SHALL BE CONSTRUCTED OF STAINLESS STEEL AS INDICATED BY HATCHING. CONNECT 0.75" DRAIN PIPE TO BOTTOM OF DUCT DOWNSTREAM OF HUMIDIFIER. SLOPE BOTTOM OF DUCTWORK TOWARDS DRAIN CONNECTION. BRING HUMIDIFIER RETURN AND DUCT DRAIN LINE TO CONDENSATE PUMP CP-1 EQUAL TO HARTEL A5-120V.
- 4 CONNECT REFRIGERANT SUCTION AND LIQUID PIPING TO CORRESPONDING CONDENSING UNIT ON ROOF. PROVIDE CONDENSATE PIPE TO NEAREST DRAIN LOCATION.
- 5 COORDINATE ALL CEILING DEVICES AND PENETRATIONS WITH SITE SPECIFIC IMAGING EQUIPMENT DRAWINGS.

  6 PUMPED CONDENSATE FROM HUMIDIFIER GRID AND DUCT DRAIN SHALL BE BROUGHT TO DRISTEEM DRANE-KOOLER IN EVS CLOSET. EXTEND TO TRENCH DRAIN IN THIS CLOSET. PROVIDE CLEAN-OUTS AT EACH CHANGE IN





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UK HealthCare Richmond

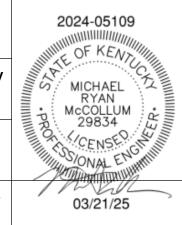
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# ISSUANCES

No.	Description	Date
1	90% OWNER REVIEW SET	01/06/2025
2	BID & PERMIT SET	02/07/2025
3	ADDENDUM #1	03/14/2025
4	ADDENDUM #2	03/21/2025

CES
Checked
BWS
Client No



FIRST FLOOR MECHANICAL NEW
WORK PLAN

M201

MG (7.71-4 7000) 40) C

# SECURITY SYMBOLS WITH ELECTRICAL REQUIREMENTS CCTV SYSTEM CEILING MOUNTED CAMERA. ROUGH-IN PER DIV 26. CAMERA AND CABLING BY DIV 28. CCTV SYSTEM WALL MOUNTED CAMERA. ROUGH-IN PER DIV 26. CAMERA AND CABLING BY DIV 28. WALL MOUNTED PROXIMITY CARD READER (46" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. CARD READER AND CABLING BY DIV 28. REFER

ELEVATOR CONTRACTOR. WIRING FROM CAB THRU TRAVELING CABLE TO ELEVATOR CONTROLLER IN ELEVATOR MACHINE ROOM AND INTERFACE WITH ELEVATOR CONTROLLER AND SMS PER OTHERS, COORDINATE WITH ELEVATOR ELECTRONIC DOOR LOCK AND INSTALLATION BY OTHERS. LOW VOLTAGE WIRING PER OTHERS. CONDUIT PATHWAY FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. REFER TO SECURITY

ELEVATOR CAB MOUNTED CARD READER. READER TO BE INSTALLED IN ELEVATOR CAB AS COORDINATED WITH

ROUGH-IN DETAILS.

ELECTRONIC MAG LOCK AND INSTALLATION BY OTHERS. LOW VOLTAGE WIRING PER OTHERS. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. REFER TO SECURITY

ELECTRONIC STRIKE AND INSTALLATION BY OTHERS. LOW VOLTAGE WIRING PER OTHERS. CONDUIT PATHWAYS FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. REFER TO SECURITY ROUGH-IN WALL/PEDESTAL MOUNT HANDICAP DOOR ACTUATOR BUTTON, FURNISHED BY OTHERS. BOX AS REQUIRED BY SYSTEM MANUFACTURER WITH INSTALLATION AND CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. ALL LOW VOLTAGE WIRING AND INTERFACE WITH SMS AND DOOR MOTOR BY DIV 28. REFER TO SECURITY

HANDICAP DOOR OPERATOR MOTOR ASSEMBLY BY OTHERS. 120V POWER CONNECTION AND CONDUIT FROM DOOR FRAME TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. LOW VOLTAGE WIRING AND INTERFACE WITH SMS AND DOOR ACTUATOR BUTTONS BY DIV 28. REFER TO SECURITY ROUGH-IN DETAILS. WALL MOUNTED INTERCOM DOOR STATION (46" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. INTERCOM AND CABLING BY DIV 28.

DESK MOUNTED INTERCOM MASTER STATION. 1-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. INTERCOM AND CABLING BY DIV 28. WALL MOUNTED SECURITY KEYPAD ENTRY STATION (46" MH UNLESS NOTED OTHERWISE). 1-GANG BOX WITH 0.75" CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. KEYPAD AND CABLING DIV 28. WALL MOUNTED COMBINATION KEYPAD/CARD READER (46" MH UNLESS NOTED OTHERWISE). 2-GANG BOX WITH 0.75"

CONDUIT TO COMMON SMS JUNCTION BOX ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING DIV 28.

PUSH BUTTON FOR LOCAL DOOR RELEASE. 1-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. BUTTON AND CABLING BY DIV 28.
PANIC/DURESS BUTTON. 1-GANG BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. BUTTON AND CABLING DIV 28.

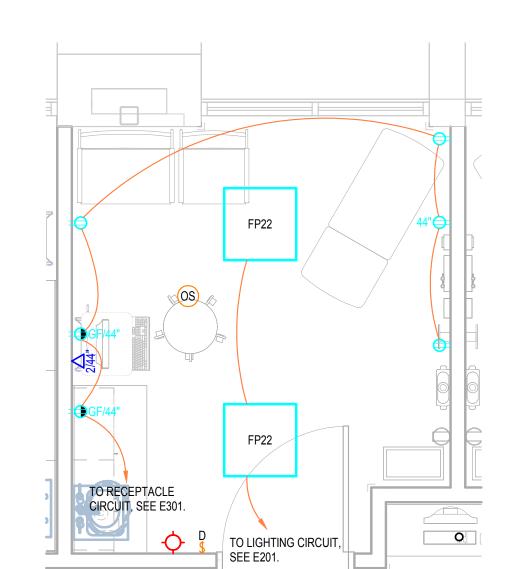
# TECHNOLOGY SYMBOLS WITH ELEC. REQUIREMENTS

ALL ROUGH-IN REQUIREMENTS SHALL BE COORDINATED WITH VENDOR PRIOR TO ROUGH-IN CONDUIT SLEEVE / FIRE RATED SLEEVE ASSEMBLY THRU WALL (1-2" SLEEVE UNLESS NOTED OTHERWISE) PER DIV 26. WALL MOUNTED DATA OUTLET (18" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT(S) TO ABOVE ACCESSIBLE CEILING PER DIV 26. JACKS, FACEPLATE AND CABLING BY DIV 27. WALL MOUNTED PHONE OUTLET (46" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. JACKS, FACEPLATE AND CABLING BY DIV 27. SUBSCRIPT "W" INDICATES WALL PHONE MOUNTING DATA OUTLET LOCATED ABOVE ACCESSIBLE CEILING. JACKS, PLENUM RATED SURFACE MOUNT BOX AND CABLING BY DIV 27. SUBSCRIPT "X" DESIGNATES QUANTITY OF DATA CABLES. REFER TO FACEPLATE DETAILS. CEILING MOUNTED WIRELESS ACCESS POINT. BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV. 26. WAP AND

WALL MOUNTED WIRELESS ACCESS POINT (96" MH UNLESS NOTED OTHERWISE). BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. WAP AND CABLING BY DIV 27. REFER TO FACEPLATE DETAILS. OUTLET LOCATED ABOVE ACCESSIBLE CEILING. JACKS, PLENUM RATED SURFACE MOUNT BOX AND CABLING BY DIV 27.

FLOOR BOX WITH CONDUIT(S) TO ABOVE ACCESSIBLE CEILING PER DIV 26. # INDICATES TYPE, REFER TO NOTES ON

POKE-THRU PER DIV 26. # INDICATES TYPE, REFER TO NOTES ON DRAWING.



# ELECTRICAL SYMBOLS

ELEC	CTRICAL SYMBOLS	FIRE	ALARM SYMBOLS
# P #	DASH SYMBOL INDICATES PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.	FACP	FIRE ALARM CONTROL PANEL.
	EXISTING OUTLET OR DEVICE TO REMAIN. MAINTAIN EXISTING CIRCUITING.	RAP	REMOTE ANNUNCIATOR PANEL.
	SQUARE DEVICE INDICATES A CONNECTION TO CRITICAL POWER. SPECIFICATION IS SAME AS RESPECTIVE ROUND DEVICE.	NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL.
11 1 11		ASSD	AIR SAMPLING SMOKE DETECTOR BASE UNIT.
•	ELECTRICAL CONNECTION.  20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE). WHEN () SHOWN, RECEPTACLE TO HAVE	15 <b>F</b>	FIRE ALARM SPEAKER & SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
Ψ	"CONTROLLED" MARKINGS.	15 <b>E</b>	FIRE ALARM BELL & SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT
Ψ	20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" MH UNLESS NOTED OTHERWISE).	15	SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.  FIRE ALARM CHIME & SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT
φ	SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN.	F	SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
•	20A-125V DOUBLE DUPLEX RECEPTACLE. NEMA 5-20R, (18" MH UNLESS NOTED OTHERWISE) TWO GANG ASSEMBLY.	<b>E</b> ¹⁵ <b>♦</b>	FIRE ALARM HORN & SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
Φ	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R WITH BOTTOM OUTLET CONTROLLED BY WALL SWITCH. (18" MH UNLESS NOTED OTHERWISE).	F	FIRE ALARM BELL (88" AFF UNLESS NOTED OTHERWISE). SUBSCRIPT "W" INDICATES EXTERIOR WEATHERPROOF UNIT.
•	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (44" MH UNLESS NOTED OTHERWISE).	- <b>O</b> _F ¹⁵	FIRE ALARM SIGNAL LIGHT (88" AFF). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
•	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R WITH 2 INTEGRAL USB CHARGERS (18" MH UNLESS NOTED OTHERWISE).	S 15	CEILING MOUNTED FIRE ALARM SPEAKER & SIGNAL LIGHT. # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER
Φ ^{GF}	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE).		LOCATIONS.
Φ ^{WP/GF}	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE), WITH TAYMAC #MM420G EXTRA DUTY GRAY COVER, VERTICAL MOUNT.	<b>15</b>	CEILING MOUNTED FIRE ALARM HORN & SIGNAL LIGHT. # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
<b>1</b>	JUNCTION BOX. SQUARE DEVICE INDICATES A CONNECTION TO CRITICAL POWER.	<b>X</b> 15	CEILING MOUNTED FIRE ALARM SIGNAL LIGHT. # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 15 CANDELA IN CORRIDORS AND 30 CANDELA FOR ALL OTHER LOCATIONS.
	MULTI-OUTLET RECEPTACLES ASSEMBLY, NEMA 5-15R (SINGLE OUTLETS ON 18" CENTERS) (46" MH UNLESS NOTED OTHERWISE).	S	CEILING MOUNTED FIRE ALARM SPEAKER.
	SURFACE MOUNTED RACEWAY, REFER TO NOTE ON PLANS.	S ^R □	SURFACE MOUNTED FIRE ALARM SPEAKER (88" AFF). SUBSCRIPT "R" INDICATES RECESSED MOUNTING.
H©	CLOCK HANGER OUTLET, SINGLE NEMA 5-15R RECESSED IN COVER PLATE (84" MH UNLESS NOTED OTHERWISE).	Fκ	FIRE ALARM MANUAL STATION (46" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "K" INDICATES KEY OPERATED.
\$	SINGLE POLE SWITCH (46" MH UNLESS NOTED OTHERWISE).	S	CEILING MOUNTED SMOKE DETECTOR.
OS ¢	DUAL-TECHNOLOGY OCCUPANCY SENSOR WALL SWITCH ( 46" MH UNLESS NOTED OTHERWISE).	(H)	CEILING MOUNTED HEAT DETECTOR.
\$ #		S S/R	DUCT MOUNTED SMOKE DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
\$	MULTI-WAY WALL SWITCH, # INDICATES NUMBER OF WAYS (46" MH UNLESS NOTED OTHERWISE).	H S/R	DUCT MOUNTED HEAT DETECTOR. SUBSCRIPT "S" INDICATES SUPPLY. SUBSCRIPT "R" INDICATES RETURN.
\$	SWITCH WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).	B→ T/R	BEAM DETECTOR. SUBSCRIPT "T" INDICATES TRANSMITTER FUNCTION. SUBSCRIPT "R" INDICATES RECEIVER FUNCTION.
\$	KEY OPERATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).	C	ELECTRIC RELEASE DOOR CLOSER.
\$	LOW-VOLTAGE MOMENTARY WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).	D	ELECTRO-MAGNETIC DOOR HOLDER.
D \$	LOW-VOLTAGE DIMMER SWITCH (46" MH UNLESS NOTED OTHERWISE).	FS	WATER FLOW SWITCH.
R	SWITCH WITH RECEPTACLE (46" MH UNLESS NOTED OTHERWISE) STANDARD TWO-GANG ASSEMBLY OF SWITCH AND RECEPTACLE.	V	VALVE SUPERVISORY SWITCH.
M	FLUSH FRACTIONAL HORSEPOWER MOTOR STARTER WITH NEON PILOT LIGHT. ONE-GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE).	R	CEILING MOUNTED REMOTE TEST STATION AND ALARM INDICATOR LIGHT FOR DUCT DETECTOR. SUBSCRIPT "W" INDICATES WALL MOUNTED.
H H	HP RATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE).	SD	SMOKE DAMPER.
\$	· · · · · · · · · · · · · · · · · · ·	FT	FIRE FIGHTER'S TELEPHONE (60" MH UNLESS NOTED OTHERWISE).
	ELECTRICAL PANEL OR SWITCHBOARD PER DRAWINGS.	PS	PRESSURE SWITCH.
P/B	PULL BOX.	AM C/I	ADDRESSABLE MODULE. SUBSCRIPT "I" INDICATES INPUT. SUBSCRIPT "C" INDICATES CONTROL.
		[D)(/	DOCT INDICATOR VALVE

# AIR SAMPLING SMOKE DETECTOR SAMPLING PORT.

- 1		
	ALL ROUG	H-IN REQUIREMENTS SHALL BE COORDINATED WITH VENDOR PRIOR TO ROUGH-IN
	NCCP	NURSE CALL CONTROL PANEL.
	NM W	NURSE CALL DESK MOUNTED MASTER CONTROL STATION (OUTLET AT 18" MH UNLESS NOTED OTHERWISE). SUBSCRIP" "W" INDICATES WALL MOUNT (46" MH UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27.
	NS	NURSE CALL STAFF STATION (46" MH UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27.
	NS	NURSE CALL MULTI-PIN CATV JACK (84" AFF UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27.

KNOX BOX (46" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "S" INDICATES SUPERVISED UNIT.

ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27.

ELAPSED TIME REFER TO TECHNOLOGY DRAWING FOR ADDITIONAL INFORMATION (90" MH UNLESS NOTED OTHERWISE) WITH RESET SWITCH (46" MH UNLESS NOTED OTHERWISE). CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27. (OS) DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.

DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR. CEILING MOUNTED DAYLIGHT SENSOR. A AUTOMATIC DOOR OPERATOR. REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL ROUGH-IN REQUIREMENTS.

PUSHBUTTON (46" MH UNLESS NOTED OTHERWISE) EDWARDS 852 (120 VOLT).

BUZZER (90" MH UNLESS NOTED OTHERWISE) EDWARDS 340-A (120 VOLT).

## **LUMINAIRE SYMBOLS**

□ DISCONNECT SWITCH.

COMBINATION MOTOR STARTER AND DISCONNECT SWITCH.

ELECTRIC MOTOR.

POWER POLE.

T LINE VOLTAGE THERMOSTAT.

H_{FR} ELECTRIC BASEBOARD HEATER.

PC PHOTOELECTRIC SENSOR.

LC LIGHTING CONTACTOR.

CR CORD REEL.

H_{DH} DUCT HEATER.

· • · · · · · · · · · · · · · ·	
2 O A a	LUMINAIRE ON NORMAL POWER. CAPITAL LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
	LUMINAIRE WITH INTEGRAL BATTERY. LUMINAIRES WITH TAG "NL" SHALL REMAIN ON 24/7 (NIGHT LIGHT).
<u>⊗</u>     ⊗	EXIT LIGHTING FIXTURE WITH INTEGRAL BATTERY, ARROWS AS INDICATED.

# **NURSE CALL SYMBOLS**

POST INDICATOR VALVE.

	·
NCCP	NURSE CALL CONTROL PANEL.
NM W	NURSE CALL DESK MOUNTED MASTER CONTROL STATION (OUTLET AT 18" MH UNLESS NOTED OTHERWISE). SUBSCRIPT "W" INDICATES WALL MOUNT (46" MH UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27.
NS	NURSE CALL STAFF STATION (46" MH UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27.
NS C	NURSE CALL MULTI-PIN CATV JACK (84" AFF UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27.

NURSE CALL STAFF PRESENCE STATION (60" AFF UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE NURSE CALL DUTY STATION (46" MH UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE EMERGENCY NURSE CALL STATION WITH PULL CORD FOR PATIENT USE (46" MH AND TO SIDE AND WITHIN 12" FROM FRONT OF TOILET BOWL IN TOILET ROOMS, 66" MH IN SHOWERS AND WET AREAS, 46" MH UNLESS NOTED OTHERWISE IN

ALL OTHER AREAS). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27 PATIENT NURSE CALL UTILITY CONSOLE (46" MH UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27. PATIENT NURSE CALL STATION (ONE OR TWO CORDS AS INDICATED, 46" MH UNLESS NOTED OTHERWISE). BOX WITH 0.75 CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27. CEILING MOUNTED NURSE CALL DOME LIGHT.

WALL MOUNTED NURSE CALL DOME LIGHT (90" MH UNLESS NOTED OTHERWISE). CEILING MOUNTED COMBINATION DOME LIGHT AND BUZZER. CEILING MOUNTED NURSE CALL ZONE LIGHT. NURSE CALL EMERGENCY BUTTON (46" MH UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27.. EMERGENCY CODE BLUE BUTTON (46" MH UNLESS NOTED OTHERWISE). BOX WITH 0.75" CONDUIT TO ABOVE ACCESSIBLE

CEILING PER DIV 26. DEVICE AND CABLING BY DIV 27.

## **ABBREVIATIONS**

ADD	REVIATIONS		
4 A D	ADEA ALADM DANEL MEDICAL CAC	VEO	MITOLIEN FOLUDAENT CONTRACTOR
AAP	- AREA ALARM PANEL - MEDICAL GAS	KEC	- KITCHEN EQUIPMENT CONTRACTOR
AF	- ARC FAULT CIRCUIT INTERRUPTER		
AFF	- ABOVE FINISHED FLOOR TO BOTTOM OF ITEM	L	- LENGTH
AFG	- ABOVE FINISHED GRADE TO BOTTOM OF ITEM	LBS	- POUNDS
ALT	- ALTERNATE		
AP	- ACCESS PANEL	MAP	- MASTER ALARM PANEL (MEDICAL GAS)
APPROX	- APPROXIMATE	MAX	- MAXIMUM
ARCH	- ARCHITECT OR ARCHITECTURAL	MEZZ	- MEZZANINE
ATS	- AUTOMATIC TRANSFER SWITCH	MFR	- MANUFACTURER
7110	ACTOMINATION TO WHOLE ENGINEERING	MH	- MANHOLE OR MOUNTING HEIGHT TO CENTER LINE O
BAS	- BUILDING AUTOMATION SYSTEM	MIN	- MINIMUM OR MINUTE
		MISC	
BLDG	- BUILDING		- MISCELLANEOUS
0501	CONTRACTOR FURNISHED CONTRACTOR INCTALLER	MREF	- MEDICAL REFRIGERATOR
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED	MTD	- MOUNTED
CKT	- CIRCUIT	MTG	- MOUNTING
CLG	- CEILING	MW	- MIRCOWAVE
CM	- COFFEE MAKER		
CMU	- CONCRETE MASONRY UNIT	NC	- NURSE CALL
CO	- COPIER	NIC	- NOT IN CONTRACT
CORR	- CORRIDOR	NL	- NIGHT LIGHT
CONN	- COMMIDON		
_	DEDTU	NOM	- NOMINAL
D	- DEPTH	NTS	- NOT TO SCALE
DIA	- DIAMETER		
DIM	- DIMENSION	OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
DIV	- DIVISION	OFOI	- OWNER FURNISHED OWNER INSTALLED
DWG	- DRAWING		
		PC	- PLUMBING CONTRACTOR (DIVISION 22)
EA	- EACH	PLBG	- PLUMBING
EC	- ELECTRICAL CONTRACTOR (DIVISION 26)	PR	- PRINTER
ELEC	- ELECTRICAL	PY	- PYXIS
		ГІ	- FINIS
ELEV	- ELEVATION OR ELEVATOR		D. D. 110
EM	- EMERGENCY	RAD	- RADIUS
EPO	- EMERGENCY POWER OFF	REC	- RECESSED
EQ	- EQUAL	RF	- REFRIGERATOR
EQUIP	- EQUIPMENT	REQD	- REQUIRED
E/R	- EXISTING TO BE RELOCATED	R	- RECEPTACLE
EX	- EXISTING TO REMAIN	RM	- ROOM
EXT	- EXTERIOR	T XIVI	1100111
LXI	- LATERIOR	S	- SURFACE MOUNTED
FCE	- FIRE CONTROL EQUIPMENT	SC	- SECURITY CONTRACTOR
FF	- FINISHED FLOOR ELEVATION	SCH	- SCHEDULE
FLR	- FLOOR	SPEC	- SPECIFICATIONS
FSC	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)	SQ	- SQUARE
FT	- FEET	SS	- STAINLESS STEEL
FZ	- FREEZER	STD	- STANDARD
		STRUC	- STRUCTURAL OR STRUCTURE
GA	- GENERATOR ANNUNCIATOR		
GC	- GENERAL CONTRACTOR	TC	-TIME CLOCK
GF	- GROUND FAULT CIRCUIT INTERRUPTER	TEMP	- TEMPERATURE
GFB	- GROUND FAULT CIRCUIT BREAKER	TYP	- TYPICAL
ш	LINAAA AANTDA OTOD ADRIAGONA OON	LINIO	LINII FOO NOTED OTHERWISE
HC	- HVAC CONTRACTOR (DIVISION 23)	UNO	- UNLESS NOTED OTHERWISE
HP	- HORSE POWER	UC	-UNDERCOUNTER
HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING		
		VFD	- VARIABLE FREQUENCY DRIVE
IN	- INCHES		
		W/	- WITH
		W/O	- WITHOUT
		WP	- WEATHERPROOF
		**1	WEATHERINOO

## **GENERAL FLOOR PLAN NOTES**

B E2	DETAIL: B = DETAIL DESIGNATION E2 = SHEET WHERE DETAIL IS LOCATED
1 E2	SECTION: 1 = SECTION DESIGNATION E2 = SHEET WHERE SECTION IS LOCATED
T2 1	ELEVATION: 1 = ELEVATION DESIGNATION T2 = SHEET WHERE ELEVATION IS LOCATED
3	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN.
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
3	LIGHTING CONTROL DETAIL NOTE. APPLIES TO THE LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE FOR ROOM CONTROL.
(3) _F	DEVICE QUANTITY - POWER NOTE. REFER TO DEVICE QUANTITIES - POWER SCHEDULE.
_	LADDER TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
	CABLE TRAY, 12" x 4" DEEP UNLESS NOTED OTHERWISE.
4"	WIRE & CONDUIT IN WALL OR ABOVE CEILING.
<b>===</b> 4" <b>:==</b>	WIRE & CONDUIT IN OR BELOW SLAB OR GRADE.
C====4"=====	CONDUIT TO BE REMOVED.
EX	EXISTING WIRE & CONDUIT TO REMAIN.
X-1,2	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; "X" DENOTES PANEL NAME; NUMBER(S) DENOTES CIRCUIT(S).

	SHEET LIST
SHEET NUMBER	SHEET NAME
E001	ELECTRICAL LEGEND, SCHEDULES AND SHEET INDEX
E002	SINGLE LINE
E003	PANELBOARD SCHEDULES
E101	FIRST FLOOR - ELECTRICAL DEMOLITION PLAN
E102	ROOF - ELECTRICAL DEMOLITION PLAN
E201	FIRST FLOOR - NEW WORK LIGHTING PLAN
E301	FIRST FLOOR - NEW WORK POWER PLAN
E401	FIRST FLOOR - NEW WORK SYSTEMS PLAN
E501	FIRST FLOOR - ELECTRICAL NEW WORK PLAN
E502	ROOF - ELECTRICAL NEW WORK PLAN
Total Count: 10	

# 2 TYPICAL EXAM ROOM SCALE: 3/8" = 1'-0"

								M	01	ΓΟ	RS, STARTER	S, DISC		IN	EC	TS	&	C	ON	ITF	ROL	_S													
OTES: UNIT	POWERED INTEGRAL G	FI OUTLET IN	NCLUDE	D.																															
						N	10TC	)R								S	TART	FR						Г	DISCO	NNF	CT N	/IEANS	3			FFI	EDER	₹	_
			CH	ARA	CTF	RIS					LOCATION				TYP			LOC	ATIO	N				TYP					ATION	ı				•	
IARK	NAMEPLATE	HORSEPOWER (HP)	LOAD (KVA)	120V-1PH	208V-1PH	208V-3PH	240V-1PH	240V-3PH	480V-1PH	480V-3PH	ROOM NAME	ROOM NUMBER	NEMA SIZE	MANUAL	MAGNETIC	ECM VED	NEAR MOTOR	MOTOR CONT CENTER	RAL W/I	ROOM NUMBER	FURNISHED BY	DISC SWITCH	RECEPTAGI F	FEEDER SW OR BREAKER	NEMA TYPE	DISC SIZE		NEAR MOTOR MOTOR CONT CENTER	ш	PANELBOARD FLIRNISHED BY	TO I GIVE OF CONDITION	WIRE SIZE	GROL	CONDUIT SIZE	
P-1	CONDENSATE PUMP	0.5 HP	1.18	•							STAFF BREAKROOM	705		•			•				EC	•			1	30	NF	•		E	0   3	3   12	12	.75	
F-1	EXHAUST FAN	0.5 HP	1.18	•							ROOF	-		•			•				EC	•			3R	30	NF	•		E	0   3	3   12	12	.75	
TU-1	ROOF TOP UNIT 1	50.1 FLA	18.05			•					ROOF	-				•			•		MFR	•							•	MF	R 4	4 4	8	1.25	Ī
TU-2	ROOF TOP UNIT 1	70.0 FLA	25.22			•					ROOF	-				•			•		MFR	•							•	MF	R 4	4 1	6	1.5	
TU-3	ROOF TOP UNIT 1	127.5 FLA	45.93			•					ROOF	-				•			•		MFR	•							•	MF	R 4	4 2/0	6	2	ĺ
ΓU-4	ROOF TOP UNIT 1	85.7 FLA	30.98			•					ROOF	-				•			•		MFR	•							•	MF	R	4 1/0	6	1.5	
TU-5	ROOF TOP UNIT 1	50.1 FLA	18.05			•					ROOF	-				•			•		MFR	•							•	MF	R 4	4 4	8	1.25	
TU-6	ROOF TOP UNIT 1	47.4 FLA	11.85			•					ROOF	-				•			•		MFR	•							•	MF	R 4	4 4	8	1.25	
TU-7	ROOF TOP UNIT 1	32.9 FLA	17.08			•					ROOF	-				•			•		MFR	•							•	MF	R 4	4 8	10	.75	1

					LUM	INAIRES			
NOTES:	:								
	FIXTURE VOLTAGE	OAD (VA)	A / LINEAR FOOT			4	OTHER ACCEPTABLE	MOUNTING S-SURFACE R-RECESSED SM-STEM MTD WM-WALL MTD C-CHAIN MTD UC-UNDER CAB CS-CEIL SURFACE	L
MARK			>	MANUFACTURER	CATALOG NO.	DESCRIPTION	MANUFACTURERS	P-PENDANT	Ū
C4 D4	120 120	41 18		PORTFOLIO	ZL1D-L48-SMR-3000LM-FST-MVOLT-35K-80CRI-WH-HC36M12 LD4C-15-90-35-D010-W-1	4" LONG LED HUNG LUMINAIRE  4" LED DOWN LIGHT, FLANGED TRIM WIDE BEAM ANGLE. 3K +901500LM 0-10V DIM TO 1% 17W UNV	COLUMBIA, METALUX SNLED LIGHTOLIER 4RN	S R	
D4B	120	18		PORTFOLIO	LD4C-15-90-35-D010-W-1-EMBOD	4" LED DOWN LIGHT, FLANGED TRIM WIDE BEAM ANGLE. 3K +901500LM 0-10V DIM TO 1% 17W UNV BATTERY PACK	LIGHTOLIER 4RN	R	
D4CT	120	11		PORTFOLIO	LD4C-30-90-35-D010-W-1	4" LED DOWN LIGHT, FLANGED TRIM WIDE BEAM ANGLE. 3K +90 3000LM 0-10V DIM TO 1% 17W UNV	LIGHTOLIER 4RN	R	
D4X	120	11		PORTFOLIO	LD4C-30-90-35-D010-W-1	4" LED DOWN LIGHT, FLANGED TRIM WIDE BEAM ANGLE. 3K +90 3000LM 0-10V DIM TO 1% 17W UNV	LIGHTOLIER 4RN	R	
EM2B				LITHONIA	EU2C-HO	DUAL HEAD EMERGENCY LIGHT, THERMOPLASTIC WHITE HOUSING, 600 LUMENS		S	
FP22	120	31		RAB	SWISHFA2X2/D10	2'x2' LED CURVED LENS LUMINARIE	COOPER, LEDALITE	R	4
FP22B		31		RAB	SWISHFA2X2/D10/E	2'x2' LED CURVED LENS LUMINARIE, MVOLT, 3600LM, 80CRI, 0-10V TO 1% DIMMING, BATTERY PACK	COOPER, LEDALITE	R	
P1	120	8 AVADITOS	0	GISELE MARK ARCH LIGHTING	S-LB-C1-ROD  SL4L-LOP-xFT-FLP-xx-80CRI-35K-800LMF-MIN1ZT	6" GLOWBALL PENDANT, 4" ROUND X 1.5"H SURFACE MOUNTED CANOPY,WHITE COLORS	PRE APPROVED EQUAL. CAMMAN 6"	Р	
RS4	120	<varies></varies>	8	MARK ARCH LIGHTING	SL4L-LOP-XFT-FLP-XX-80CRI-35K-800LIVIF-IVIINTZT	RECESSED SLOT - 4" WIDE	PINNACLE, NEORAY DEFINE	R	
W2	120	25	0-0-0	ALIGHT	03-2'-LS-35K-90+CRI-U-DL2-R-XX-D	LINEAR SURFACE 2' EXTRUDED ALUMINUM 2" WIDE SQUARE OPAL DIFFUSER 1' ABOVE MIRROR 35K 1000LM 0-10V DIM, COLOR	PRUDENTIAL, LUMENWORK QUANW	S	
WP1B	120	10		LITHONIA	WDGE2 LED P1 35K 80CRI VF MVOLT SRM E4WH DS DDBXD	SELECTED BY ARCHITECT  LED WALL PACK, DARK BRONZE FINISH, REMOTE EMERGENCY BATTERY, DUAL SWITCHING	BEACON, RAYON T632LED	S	
WP1C	120	10		LITHONIA	WDGE2 LED P1 35K 80CRI VF MVOLT SRM E4WH DS PE DDBXD	LED WALL PACK, DARK BRONZE FINISH, REMOTE EMERGENCY BATTERY, DUAL SWITCHING.	BEACON, RAYON T632LED	S	
X1B	120	2		RAB	EXIT34 RG/E	GREEN SINGLE FACE EXIT SIGN, WHITE THERMOPLASTIC HOUSING, W/BATTERY, SELF DIAGNOSTIC	LITHONIA	S	
X1C	120			RAB	EXIT34 RG/E	GREEN SINGLE FACE EXIT SIGN, WHITE THERMOPLASTIC HOUSING, W/BATTERY, SELF DIAGNOSTIC.	LITHONIA		
X2	120	2		RAB	EXIT34 RG/E	GREEN DOUBLE FACE EXIT SIGN, WHITE THERMOPLASTIC HOUSING, W/ BATTERY, SELF DIAGNOSTIC	CHLORIDE, SURELITES, LITHONIA	S	
X3	120			LITHONIA	WETCTGSDCW	EXTERIOR GREEN SINGLE FACE EMERGENCY LIGHT/EXIT COMBO SIGN, WHITE THERMOPLASTIC HOUSING, RUGGED, HEAVY-DUTY, POLYCARBONATE CLEAR HOUSING LENS, W/COLD WEATHER BATTERY, SELF DIAGNOSTIC.	CHLORIDE, SURELITES, RAB		
X4	120			LITHONIA	WLTC2GSDCW	EXTERIOR GREEN DOUBLE FACE EMERGENCY LIGHT/EXIT COMBO SIGN, WHITE THERMOPLASTIC HOUSING, RUGGED, HEAVY-DUTY, POLYCARBONATE CLEAR HOUSING LENS, W/COLD WEATHER BATTERY, SELF DIAGNOSTIC.	CHLORIDE, SURELITES, RAB	S	





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546 E Main Street Lexington, KY 40508 T 859.543.0933



Richmond 2091 Lantern Ridge Dr

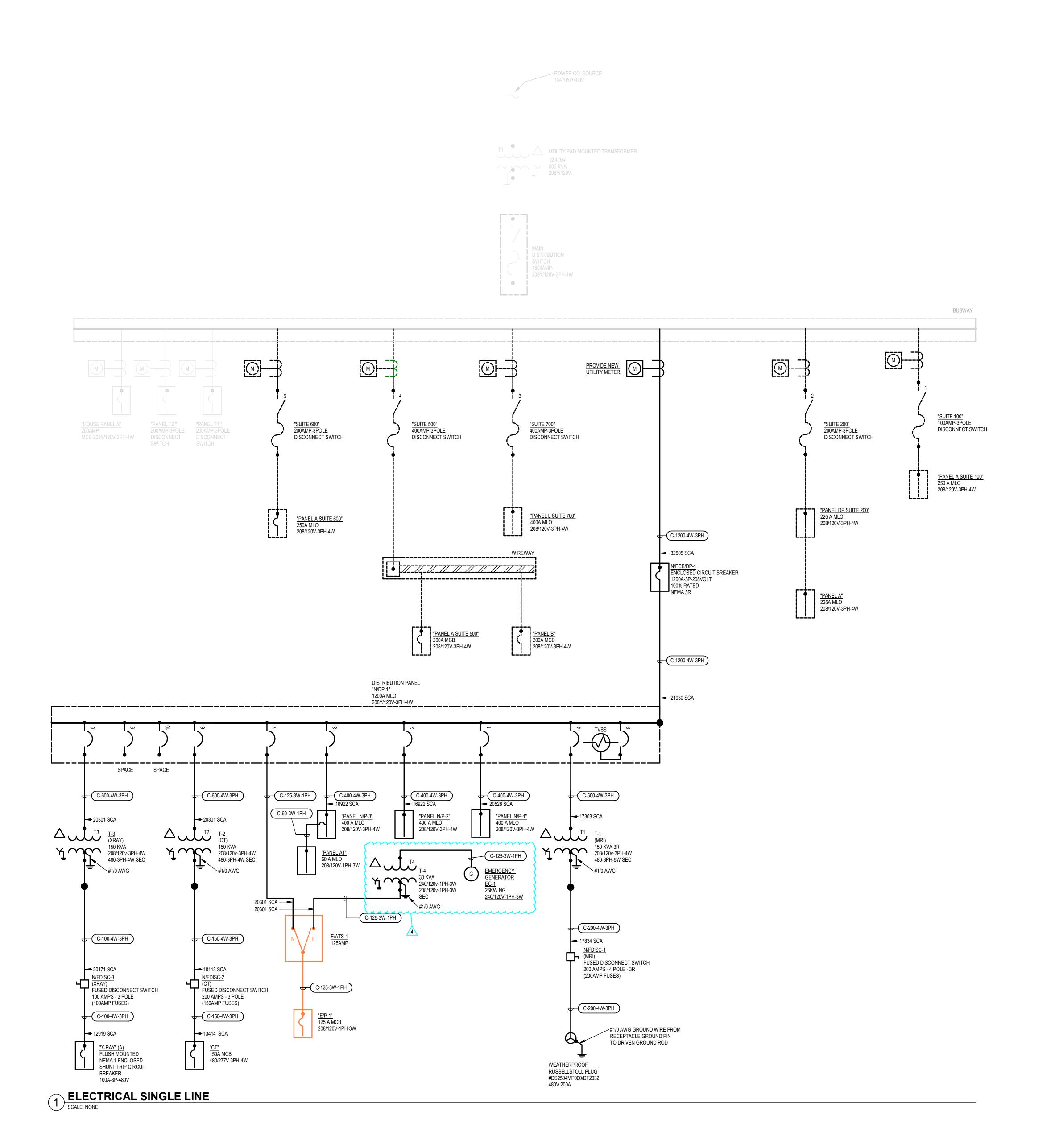
Richmond, KY 40475

UK Project#: 12566, 12567, 12568, 12569

**ISSUANCES** 

No.	Description	Date
1	90% OWNER REVIEW SET	01/06/2
2	BID & PERMIT SET	02/07/2
3	ADDENDUM #1	03/14/2
4	ADDENDUM #2	03/21/2

ELECTRICAL LEGEND, SCHEDULES AND SHEET INDEX



	CONDUIT A WIDE
	CONDUIT & WIRE
	CONDUIT & WIRE TO BE REMOVED
	EXISTING CONDUIT & WIRE TO REMAIN
	INTEGRATED EQUIPMENT ENCLOSURE
	SWITCHBOARD ENCLOSURE
	BUSSING
#	FAULT CURRENT REFERENCE POINT
	FEEDER WIRE SIZE SYMBOL  SPECIAL CONFIGURATION: 2P=TWO POLE NO NEUTRAL, S=SECONDARY, SE=SERVICE ENTRANCE, V=VOLTAGE DROP
	——# OF PHASES ——# OF CONDUCTORS
	FEEDER AMPERAGE
N E	AUTOMATIC TRANSFER SWITCH
Δ	DELTA SYMBOL
	DISCONNECT
M	ELECTRIC METER
$\sim$	EQUIPMENT CURRENT TRANSFORMER
<u></u>	EQUIPMENT GROUND
M	EQUIPMENT MULTIMETER
$\approx$	EQUIPMENT POTENTIAL TRANSFORMER
ĪΥ	EQUIPMENT WYE SIDE OF TRANSFORMER WITH GROUND
-	FUSED SWITCH - SECONDARY
G	GENERATOR
	PANELBOARD - MAIN LUG ONLY
ζ [*]	PANELBOARD - MAIN BREAKER
^	PANELBOARD BREAKER
<b>†</b>	SINGLE POLE SWITCH
A T	TRANSFORMER
● OR •	VOLTAGE TERMINATION - SECONDARY

	I	FEEDER WI	RE SIZES		
FEEDER TAG	# OF SETS	# OF CONDUCTORS	CONDUCTOR SIZE	GROUND SIZE	CONDUIT SIZE
C 60 3W 1P	H 1	3	6	10	1"
C 100 4W 3P	H 1	4	2	8	1.5"
C 125 3W 1P	H 1	3	1	6	1.5"
C 150 4W 3P	H 1	4	1/0	6	2"
C 200 4W 3P	H 1	4	3/0	6	2"
C 400 4W 3P	H 1	4	500	3	3.5"
C 600 4W 3P	H 2	4	350	1	3"
C 1200 4W 3P	H 3	4	600	3/0	4"





201 W Short Street, Suite 700 Lexington, KY 40507 T 859.231.7538









2091 Lantern Ridge Dr Richmond, KY 40475

UK Project#: 12566, 12567, 12568, 12569

# ISSUANCES

╛	No.	Description	Date
	1		01/06/202
	2	BID & PERMIT SET	02/07/202
	3	ADDENDUM #1	03/14/202
	4	ADDENDUM #2	03/21/202

SINGLE LINE

	ly From: N/ECB/ Voltage: 208Y/12					Mounting: Enclosure:				Main	Rating: 65 s Type: Ml Rating: 12	.0	
	CIRCUIT DESCRIPTION	APPRO CONNEC LOAD	TED		POLES	TRIP SETTING	BREAKEI TYPE	I	ER OF	WIR	I	ND CONDUIT SIZE	SEE NOTE
	N/P-1	141.45 k		400 A	3	400 A							
	N/P-2	139.05 k		400 A	3	400 A							
$\rightarrow$	N/P-3	150.40 k		400 A	3	400 A							
	T1-MOBILE MRI	125.00 k		600 A	3	600 A							1
-	T3-XRAY	150.00 k		600 A	3	600 A							
-	T2-CT E/ATS-1	150.00 k		600 A 200 A	3	600 A 125 A							
	TVSS	30.84 k\ 0.00 kV		100 A	3	60 A							
	Space		A		3				<del>-</del>				
	Space Space	<u></u>			3				<b></b>				
	Classification				ected	Demand	Factor F	stimated				Totals	
_ightir					4 VA	100.0		7524 VA			1 dilei	Totals	
/lotor					92 VA	80.00		136553 VA	<u> </u>	Total Co	onn I oad.	886.74 kVA	
	otacle				23 VA	53.25		81912 VA				382.81 kVA	
	ostic Imaging NE(	C 517 73(B	)		00 VA	29.23		125400 VA			otal Conn.:		
Resist	tive Heat (Season	al Load)		1257	00 VA	25.00	0%	31425 VA	. Т	otal Est	. Demand:	1063 A	
	886.74	+ KVA									382.81 kVA	(1003 A)	
Pa	nel: F/P	<u>-1</u>											
L Supp	anel: E/P ocation: ELECT ly From: E/ATS- Voltage: 208/120	RICAL 714 1					ing: Surfa ure: Type			Ma	C. Rating: 2 ins Type: 1 is Rating:	ИCВ	
L Supp	ocation: ELECT ly From: E/ATS- Voltage: 208/120 Circuit Desc	RICAL 714 1 DV-1PH-3W	/ Trip	Poles	1000 V	Enclos	ure: Type		Poles	Ma Main Trip	ins Type: Its Rating:	MCB 125 A Description	<b>CKT</b> 2
L Supp	ocation: ELECT ly From: E/ATS- Voltage: 208/120 Circuit Desci \$ R-UCR LA	RICAL 714 1 0V-1PH-3W ription B 225	V	1	1000 V	Enclos	ure: Type	1 <b>3</b>		Main Trip 20 A	ins Type: Ins Rating:  Circuit	Description  CR LAB 225	2
L Supp CKT	ocation: ELECT ly From: E/ATS- Voltage: 208/120 Circuit Desc	RICAL 714 1 0V-1PH-3W ription B 225 0RR 212	<b>Trip</b> 20 A	1	1000 V	A 1000 VA	Type  I A 1400 VA	1 <b>3</b>	1	Ma Main Trip	Circuit  Recept Py	MCB 125 A Description	2
CKT	ocation: ELECT ly From: E/ATS- Voltage: 208/120  Circuit Desc \$ R-UCR LA Recept CC CC	RICAL 714 1 0V-1PH-3W ription B 225 0RR 212 REP 105	Trip 20 A 20 A	1 1 1		A 1000 VA	Type  I A 1400 VA	1 <b>3</b>	1	Main Trip 20 A 20 A	Circuit \$ R-UC Recept Py Receptacle	Description CR LAB 225 (xis CORR 212)	2
CKT 1 3 5	Circuit Desci \$ R-UCR CT PI	ription B 225 DRR 212 REP 105	Trip 20 A 20 A 20 A	1 1 1 1		A 1000 VA A 360 VA	1400 VA	1 3 1500 VA	1 1 1	Main  Trip  20 A  20 A  20 A	Circuit \$ R-U0 Recept Py Receptacle	Description CR LAB 225 vxis CORR 212 2 ZONE 3 MRI	2 4 . 6
CKT 1 3 5 7	Circuit Desc \$ R-UCR CT PI Recept acl	RICAL 714 1 0V-1PH-3W ription B 225 0RR 212 REP 105 le	Trip 20 A 20 A 20 A 20 A	1 1 1 1	1000 V	A 1000 VA A 360 VA	1400 VA	1 3 1500 VA	1 1 1	Trip 20 A 20 A 20 A 20 A	Circuit \$ R-U( Recept Py Receptacle \$ R	Description CR LAB 225 vxis CORR 212 2 ZONE 3 MRI ceptacle	2 4 . 6 8
CKT 1 3 5 7 9	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-FRZ S	ription B 225 DRR 212 REP 105 le 330	Trip 20 A 20 A 20 A 20 A 20 A 20 A	1 1 1 1	1000 V	A 1000 VA A 360 VA A 978 VA	1400 VA 720 VA	1 3 1500 VA 1500 VA	1 1 1 1	Trip 20 A 20 A 20 A 20 A 20 A	Circuit \$ R-UC Recept Py Receptacle Re \$ R Receptacle	Description CR LAB 225 exis CORR 212 e ZONE 3 MRI ceptacle	2 4 . 6 8 10
CKT 1 3 5 7 9 11 13 15	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3	ription B 225 DRR 212 REP 105 le 330 330 21 B 225	Trip 20 A	1 1 1 1 1 1 1	1000 V	A 1000 VA A 360 VA A 978 VA A 1600 VA	1400 VA 1600 VA 1000 VA	1 3 1500 VA 1500 VA 360 VA	1 1 1 1 1	Trip 20 A	Circuit \$ R-U( Recept Py Receptacle \$ R Receptacle \$ R Receptacle \$ R Receptacle	Description CR LAB 225 EXIST CORR 212 EXECUTE 20NE 3 MRI CEPTACLE LICE 330 CALLE EXAM/RF 221 EXAM/ACY	2 4 . 6 . 8 . 10 . 12 . 14
CKT 1 3 5 7 9 11 13 15 17	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-FRZ 3 \$ R-FRZ 3 \$ R-RF 2 \$ R-RF 2	ription B 225 PRR 212 REP 105 Ie 330 330 221 B 225	Trip 20 A	1 1 1 1 1 1 1 1 1	1000 V	A 1000 VA A 360 VA A 978 VA A 1600 VA	1400 VA 1600 VA 1000 VA	1 1500 VA 1500 VA 360 VA 1080 VA	1 1 1 1 1 1 1 1	Trip 20 A	Circuit \$ R-UC Recept Py Receptacle \$ R Receptacle \$ R Receptacle \$ R Receptacle \$ R	Description CR LAB 225 VXIS CORR 212 ZONE 3 MRI Ceptacle -ICE 330 acle EXAM/RF 221 PHARMACY	2 4 . 6 8 10 12 14 . 16
CKT 1 3 5 7 9 11 13 15 17 19	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3	ription B 225 PRR 212 REP 105 Ie 330 330 221 B 225	Trip 20 A	1 1 1 1 1 1 1	1000 V 1600 V 1600 V	A 1000 VA A 360 VA A 978 VA A 1600 VA	1400 VA 1600 VA 1000 VA 2882 VA	1 3 1500 VA 1500 VA 360 VA	1 1 1 1 1 1 1 1 1	Trip 20 A	Circuit \$ R-UC Recept Py Receptacle \$ R	Description CR LAB 225 (xis CORR 212) E ZONE 3 MRI Ceptacle -ICE 330 Cacle EXAM/RF 221 E PHARMACYRF 602 C panel	2 4 . 6 8 10 12 14 . 16 18 20
CKT 1 3 5 7 9 11 13 15 17 19 21	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 4 \$ R-FRZ 6 R-FRZ 6	ription B 225 DRR 212 REP 105 le 330 330 21 B 225	Trip 20 A	1 1 1 1 1 1 1 1 1 2	1000 V 1600 V	A 1000 VA A 360 VA A 978 VA A 1600 VA	1400 VA 1600 VA 1000 VA 2882 VA	1500 VA 1500 VA 360 VA 1080 VA	1 1 1 1 1 1 1 1 1 1	Trip 20 A	Circuit \$ R-UC Recept Py Receptacle \$ R	Description CR LAB 225 EXIST CORR 212 EXECUTE 20NE 3 MRI CEPTACLE LICE 330 EXECUTE EXAM/RF 221 EXAM/ACYRF 602 C panel JCFR 602	2 4 . 6 8 10 12 14 . 16 18 20 22
CKT 1 3 5 7 9 11 13 15 17 19 21 23	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-FRZ 3 \$ R-FRZ 3	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 02 ATA 508	Trip 20 A	1 1 1 1 1 1 1 1 1 2	1000 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA	1400 VA 1600 VA 1000 VA 2882 VA	1500 VA 1500 VA 360 VA 1080 VA	1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	Circuit \$ R-UC Recept Py Receptacle \$ R	Description CR LAB 225 VXIS CORR 212 ZONE 3 MRI Ceptacle -ICE 330 CCIE EXAM/RF 221 PHARMACYRF 602 C panel JCFR 602 R-602	2 4 . 6 8 10 12 14 . 16 18 20 22 24
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25	Circuit Desci \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 02 ATA 508	Trip 20 A	1 1 1 1 1 1 1 1 2 	1000 V 1600 V 1600 V	A 1000 VA A 360 VA A 978 VA A 1600 VA	1400 VA 1600 VA 1000 VA 2882 VA	1 1500 VA 1500 VA 360 VA 1080 VA 1000 VA	1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	Circuit \$ R-UC Recept Py Receptacle \$ R	Description CR LAB 225 VXIS CORR 212 E ZONE 3 MRI Ceptacle -ICE 330 Cacle EXAM/RF 221 E PHARMACYRF 602 C panel JCFR 602 R-602 CP 714	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-RF 6 Receptacle DA	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 02 ATA 508	Trip 20 A	1 1 1 1 1 1 1 1 2  1 1	1000 V 1600 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA	1400 VA 1600 VA 1000 VA 2882 VA	1500 VA 1500 VA 360 VA 1080 VA	1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	Circuit \$ R-UC Recept Py Receptacle \$ R	Description CR LAB 225 EXIS CORR 212 EXECUTE 20NE 3 MRI CEPTACLE CICE 330 CICE EXAM/RF 221 CPHARMACYRF 602 C panel JCFR 602 R-602 CP 714 EXECUTE 201	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptaci \$ R-FRZ 3 \$ R-FRZ 3 \$ R-RF 2 \$ R-UCR LA \$ R-RF 6 Receptacie DA  Receptacie Space Space	ription B 225 DRR 212 REP 105 le 330 330 21 B 225 OCC ATA 508	Trip 20 A	1 1 1 1 1 1 1 1 2  1 1 1	1000 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA	1400 VA 1600 VA 1000 VA 2882 VA 1200 VA	1 1500 VA 1500 VA 360 VA 180 VA 1000 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	Circuit \$ R-UC Recept Py Receptacle \$ R	Description CR LAB 225 VXIS CORR 212 ZONE 3 MRI Ceptacle -ICE 330 CCIE EXAM/RF 221 PHARMACYRF 602 C panel JCFR 602 C-602 C-714 Spare Spare	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	Circuit Desci \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ CC \$ R-FRZ CCC \$ R-FRZ CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	ription B 225 PRR 212 REP 105 Ie B 225 ORR 210 ATA 508	Trip 20 A	1 1 1 1 1 1 1 1 2  1 1 1 1	1000 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA	1400 VA 1600 VA 1000 VA 2882 VA	1 1500 VA 1500 VA 360 VA 1080 VA 1000 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	ins Type: Is Rating:  Circuit \$ R-UC Recept Py Receptacle \$ R R Receptacle \$ R R R R R R R R R R R R R R R R R R R	Description CR LAB 225 vxis CORR 212 ZONE 3 MRI ceptacle -ICE 330 acle EXAM/RF 221 PHARMACYRF 602 C panel JCFR 602 C panel JCFR 602 CP 714 Spare Spare	2 4 . 6 8 . 10 . 12 . 14 . 16 . 18 . 20 . 22 . 24 . 26 . 28 . 30 . 32
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-RF 6 Receptacle DA 	ription B 225 DRR 212 REP 105 le 330 330 321 B 225 DCR 25 DCR 212 REP 105 le	Trip 20 A	1 1 1 1 1 1 1 1 2  1 1 1 1 1	1000 V 1600 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA	1400 VA 1600 VA 1000 VA 1200 VA	1 1500 VA 1500 VA 180 VA 1000 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	ins Type: Is Rating:  Circuit \$ R-U0 Recept Py Receptacle \$ R Recepta \$ R Receptacle \$ R	Description CR LAB 225 /xis CORR 212 e ZONE 3 MRI ceptacle -ICE 330 acle EXAM/RF 221 e PHARMACYRF 602 C panel JCFR 602 R-602 CCP 714 Spare Spare Spare	2 4 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-GE 10 \$ R-GE 10	ription B 225 DRR 212 REP 105 le 330 330 21 B 225 DTA 508	Trip 20 A	1 1 1 1 1 1 1 1 2  1 1 1 1 1 1 1 1 1	1000 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA 0 VA	1400 VA 1600 VA 1000 VA 2882 VA 1200 VA	1 1500 VA 1500 VA 360 VA 180 VA 1000 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	ins Type: Iss Rating:  Circuit \$ R-UC Recept Py Receptacle \$ Re Receptacle \$ R R Receptacle \$ R R R R R R R R R R R R R R R R R R R	Description CR LAB 225 VXIS CORR 212 ZONE 3 MRI Ceptacle -ICE 330 CCIE EXAM/RF 221 PHARMACYRF 602 C panel JCFR 602 C-602 C-714 Spare Spare Spare Spare Spare	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34 36
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	Circuit Desci \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 6 Receptacle DA Receptacle DA Receptacle Space Space Space Space Space Space Space	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 02 ATA 508	Trip 20 A	1 1 1 1 1 1 1 1 1 2  1 1 1 1 1 1 1 1	1000 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA	1400 VA 1400 VA 1600 VA 1000 VA 1200 VA	1 1500 VA 1500 VA 360 VA 1080 VA 0 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	ins Type: Is Rating:  Circuit \$ R-UC Recept Py Receptacle \$ R R Receptacle \$ R R R R R R R R R R R R R R R R R R R	Description CR LAB 225 (xis CORR 212) CE ZONE 3 MRI CEPTACLE CEPTACLE CICE 330 CICE EXAM/ CRF 221 CEPTACLE COPTACLE COPTACL	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34 36 38
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-RF 6 Receptacle DA 	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 DATA 508	Trip 20 A	1 1 1 1 1 1 1 1 2  1 1 1 1 1 1 1 1 1	1000 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA 0 VA	1400 VA 1600 VA 1000 VA 1200 VA	1 1500 VA 1500 VA 180 VA 1000 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	ins Type: Is Rating:  Circuit \$ R-UC Recept Py Receptacle \$ R R Receptacle \$ R R R R R R R R R R R R R R R R R R R	Description CR LAB 225 /xis CORR 212 E ZONE 3 MRI ceptacle -ICE 330 acle EXAM/RF 221 E PHARMACYRF 602 C panel JCFR 602 R-602 CCP 714 Spare Spare Spare Spare Space Space Space	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34 36 38 40
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	Circuit Desci \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 6 Receptacle DA Receptacle DA Receptacle Space Space Space Space Space Space Space	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 DATA 508	Trip 20 A	1 1 1 1 1 1 1 1 2  1 1 1 1 1 1 1 1 1 1	1000 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA 0 VA	1400 VA 1600 VA 1000 VA 1200 VA 1200 VA	1 1500 VA 1500 VA 1600 VA 1000 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	ins Type: Is Rating:  Circuit \$ R-UC Recept Py Receptacle \$ R R Receptacle \$ R R R R R R R R R R R R R R R R R R R	Description CR LAB 225 (xis CORR 212) CE ZONE 3 MRI CEPTACLE CEPTACLE CICE 330 CICE EXAM/ CRF 221 CEPTACLE COPTACLE COPTACL	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34 36 38
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptaci \$ R-FRZ 3 \$ R-FRZ 3 \$ R-RF 2 \$ R-UCR LA \$ R-FRZ 3 \$ R-RF 6 Receptacie DA Receptacie Space	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 DATA 508	Trip 20 A	1 1 1 1 1 1 1 1 2  1 1 1 1 1 1 1 1 1	1000 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA 0 VA 0 VA 42 kVA	1400 VA 1600 VA 1000 VA 1200 VA 1200 VA 1200 VA	1 1500 VA 1500 VA 1600 VA 180 VA 0 VA 0 VA 17000 VA 170000 VA 17000 VA 17000 VA 17000 VA 17000 VA 17000 VA 17000 VA 1700	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	ins Type: Iss Rating:  Circuit \$ R-UC Recept Py Receptacle \$ R R Receptacle \$ R R R R R R R R R R R R R R R R R R R	Description CR LAB 225 VXIS CORR 212 E ZONE 3 MRI Ceptacle -ICE 330 Cacle EXAM/RF 221 E PHARMACYRF 602 C panel JCFR 602 C panel JCFR 602 CP 714 CSpare CSpare CSpare CSpare CSpace	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34 36 38 40
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	Circuit Desci \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-G AR-UCR LA \$ R-RF 6 Receptacle DA Receptacle DA Receptacle Space	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 DATA 508	Trip 20 A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 Load:  Conn	1000 V 1600 V 1600 V 2882 V 16.	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA 0 VA 0 VA 42 kVA Demand	1400 VA 1400 VA 1600 VA 1600 VA 1200 VA 1200 VA 1200 VA	1 1500 VA 1500 VA 1600 VA 1000 VA 0 VA 0 VA 1500 VA 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	ins Type: Iss Rating:  Circuit \$ R-UC Recept Py Receptacle \$ R R Receptacle \$ R R R R R R R R R R R R R R R R R R R	Description CR LAB 225 /xis CORR 212 E ZONE 3 MRI ceptacle -ICE 330 acle EXAM/RF 221 E PHARMACYRF 602 C panel JCFR 602 R-602 CCP 714 Spare Spare Spare Spare Space Space Space	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34 36 38 40
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	Circuit Desc \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptaci \$ R-FRZ 3 \$ R-FRZ 3 \$ R-RF 2 \$ R-UCR LA \$ R-FRZ 3 \$ R-RF 6 Receptacie DA Receptacie Space	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 DATA 508	Trip 20 A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 Load:  Conn	1000 V 1600 V 1600 V 2882 V	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA 0 VA 0 VA 42 kVA	1400 VA 1400 VA 1600 VA 1600 VA 1200 VA 1200 VA 1200 VA	1 1500 VA 1500 VA 1600 VA 180 VA 0 VA 0 VA 17000 VA 170000 VA 17000 VA 17000 VA 17000 VA 17000 VA 17000 VA 17000 VA 1700	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	ins Type: Is Rating:  Circuit \$ R-UC Recept Py Receptacle \$ R Rece	Description CR LAB 225 /xis CORR 212 e ZONE 3 MRI ceptacle -ICE 330 acle EXAM/RF 221 e PHARMACYRF 602 C panel JCFR 602 R-602 CCP 714 Spare Spare Spare Spare Spare Space Space Space Space Space Totals	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34 36 38 40
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	Circuit Desci \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-G AR-UCR LA \$ R-RF 6 Receptacle DA Receptacle DA Receptacle Space	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 DATA 508	Trip 20 A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 Load:  Conn	1000 V 1600 V 1600 V 2882 V 16.	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA 0 VA 0 VA 42 kVA Demand	1400 VA 1400 VA 1600 VA 1600 VA 1200 VA 1200 VA 1200 VA	1 1500 VA 1500 VA 1600 VA 1000 VA 0 VA 0 VA 1500 VA 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	Circuit \$ R-UC Recept Py Receptacle \$ R R Receptacle \$ R R R R R R R R R R R R R R R R R R R	Description CR LAB 225 VXIS CORR 212 ZONE 3 MRI Ceptacle -ICE 330 acle EXAM/RF 221 PHARMACYRF 602 C panel JCFR 602 R-602 CP 714 Spare Spare Spare Spare Space	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34 36 38 40
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	Circuit Desci \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-G AR-UCR LA \$ R-RF 6 Receptacle DA Receptacle DA Receptacle Space	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 DATA 508	Trip 20 A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 Load:  Conn	1000 V 1600 V 1600 V 2882 V 16.	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA 0 VA 0 VA 42 kVA Demand	1400 VA 1400 VA 1600 VA 1600 VA 1200 VA 1200 VA 1200 VA	1 1500 VA 1500 VA 1600 VA 1000 VA 0 VA 0 VA 1500 VA 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	Circuit \$ R-UC Recept Py Receptacle \$ R Receptacle	Description CR LAB 225 (xis CORR 212) CE ZONE 3 MRI CEPTACLE CE	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34 36 38 40
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	Circuit Desci \$ R-UCR LA Recept CC CC \$ R-UCR CT PI Receptacl \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-FRZ 3 \$ R-G AR-UCR LA \$ R-RF 6 Receptacle DA Receptacle DA Receptacle Space	ription B 225 DRR 212 REP 105 le 330 330 221 B 225 DATA 508	Trip 20 A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 Load:  Conn	1000 V 1600 V 1600 V 2882 V 16.	A 1000 VA A 360 VA A 978 VA A 1600 VA A 700 VA 500 VA 0 VA 0 VA 42 kVA Demand	1400 VA 1400 VA 1600 VA 1600 VA 1200 VA 1200 VA 1200 VA	1 1500 VA 1500 VA 1600 VA 1000 VA 0 VA 0 VA 1500 VA 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 20 A	Circuit \$ R-UC Recept Py Receptacle \$ R R Receptacle \$ R R R R R R R R R R R R R R R R R R R	Description CR LAB 225 /xis CORR 212 E ZONE 3 MRI ceptacle -ICE 330 acle EXAM/RF 221 E PHARMACYRF 602 C panel JCFR 602 R-602 CCP 714 Spare Spare Spare Spare Spare Space Space Space Space Space Totals 30.84 kVA 20.42 kVA	2 4 . 6 8 10 12 14 . 16 18 20 22 24 26 28 30 32 34 36 38 40

ESTIMATED DEMAND

20.42 kVA (98 A)

TOTAL CONNECTED

30.84 kVA

L Supp	anel: N/P-1 Location: ELECTRICAL DITY From: N/DP-1 Voltage: 208Y/120V-3P					Mounti Enclosu	<b>ng:</b> Surf I <b>re:</b> Type				Mains	Rating: 2 Type: N Rating: 4	MLO	
СКТ	Circuit Description	Trip	Poles		4	ı	3		<b>C</b>	Poles	Trip	Circu	it Description	СКТ
1	Ltg 713, 714, 712	20 A	1	246 VA	355 VA	\				1	20 A	EMERG Ltg-	710, 500, 400, 602, 603	2
3	Coiling Gate RM 600	20 A	1			1176	1080			1	20 A	R-W	'S-1 507, 304	4
5	R- RM 502	20 A	1					360 VA	1440	1	20 A		R-300	6
7	R-300	20 A	1	900 VA	1500					1	20 A		R-300	8
9	\$ R-UCFZ 300	20 A	1			1500	1000			1	20 A	\$ R	-ICE PT 300	10
11	R-713	20 A	1					900 VA	1440	1	20 A		R-305	12
13	R-305, 400	20 A	1	1620	1080					1	20 A	F	R-506, 401	14
15	R-401	20 A	1			720 VA	1260			1	20 A		R-401	16
17	R-306	20 A	1					1080	1440	1	20 A		R-301	18
19	R-300, 302	20 A	1	1000	1040					1	20 A		R-302	20
21	R-508	30 A	2			1040	776 VA			1	20 A		Ltg	22
23								1040	1032	3	150 A		RTU-4	24
25	DWH-1 507	20 A	1	600 VA	1032									26
27	\$ R- WS-1 507	20 A	1			360 VA	1032							28
29	RCP-1 507	20 A	1					180 VA	3000	3	40 A	CT HI	JMID. EVS 712	30
31	R-500	20 A	74	1080	3000									32
33	Exterior Lighting	20 A	1			60 VA	3000							34
35	RTU-5	80 A	سخر		u	· ····		6016	3996	3	60 A	XRAY F	HUMID. EVS 712	36
37				6016	3996			0010	0000			7000		38
39				0010	0000	6016	3996							40
41	Ltg 504	20 A	1			0010	0000	93 VA	3833	3	40 A	Resisti	ve Heat Rm 400	42
43	Ltg 304	20 A	1	741 VA	3833			30 771	0000			1100001		44
45	Resistive Heat-RM 401	20 A	1	7-1-47	0000	900 VA	3833							46
47	Resistive Heat RM 305	20 A	1			300 171	0000	1400	2367	3	40 A	Resisti	ve Heat RM 300	48
49	Resistive Heat RM 300		3	4100	2367			1400	2007			11031311		50
51				+100	2307	4100	2367							52
53						4100	2307	4100	964 VA	2	30 A	ΔC-3	2/CU-2 ROOF	54
55	AC-1/CU-1 ROOF	30 A	2	964 VA	064 \//			4100	304 VA			70-2	2/00-2 1(00)	56
57	AC-1/CO-1 ROOI			904 VA	904 V		510 VA			2	20 A	VD 3	WAITING 400	58
59	 R-714	20 A	1			304 VA	310 VA		510 VA		20 A	AD-2	WAITING 400	60
61	R-500	20 A	2	1040	270 \//			720 VA	310 VA	1	20 A	· ·	R-WC 500	62
63	K-500			1040	370 VA	1040	1200			1	20 A		R-VVC 500 R-PR 506	64
			1			1040	1200	200 \ / 4	500 \ / 4	1				
65	HOOD 603	20 A		700 \ / A	400 \ / 4			300 VA	500 VA	<u> </u>	20 A		C ELEC 714	66
67	R-RM 603	20 A	<del></del>	720 VA	180 VE		0.1/4			1	20 A	Red	cept - ROOF	68
69	Receptacle DATA 713	20 A	1			180 VA	0 VA	0.1/4	0.1/4	1	20 A		Spare	70
71	Spare	20 A		0.1/4	0.1/4			0 VA	0 VA	1	20 A		Spare	72
73	Spare	20 A	1	0 VA	0 VA	0.1/4				1	20 A		Spare	74
75	Spare	20 A	1			0 VA				1			Space	76
77	Space		1							1			Space	78
79	Space		1							1			Space	80
81	Space		1							1			Space	82
83	Space		1							1			Space	84
	<u> </u>	lotai	Load:		1 kVA		l kVA		l kVA				<del>-</del>	
	Classification		C	Connecte		Demand F		Estimat				Panel	lotais	
_ightii	<u> </u>			2270 V		100.00		2270 \		<b>T</b> . 4	10:		444 45 13 75	
Motor				49032 \		80.00		39226					141.45 kVA	
	otacle	1		56949 \		58.78		33475		ıotal			83.27 kVA	
≺esis	tive Heat (Seasonal Load	)		33200 \	/A	25.00°	%	8300 \	VA	<b>T</b> . 1 . 1		Conn.:		
										Total	EST. D	emand:	231 A	
lotes	s: \$ = PROVIDE GROUN	ND FAI	ULT CII	RCUIT B	REAKE	R.								
	TOTAL CONNECT												D DEMAND	

Lo uppl	nel: A1 pocation: X-RAY 207 by From: N/P-3 Voltage: 208/120V-1PH-3V		Mountii Enclosu	<b>ng:</b> Surf I <b>re:</b> Type		A.I.C. Rating: 10K Mains Type: MCB Mains Rating: 100 A						
KT	Circuit Description	Trip	Poles	Α		В		Poles	Trip	Circuit	Description	СКТ
1	WARNING LIGHT 200	20 A	1	180 VA				1		(	Space	2
3	PSI POWER 207	20 A	1			180 VA		1		(	Space	4
5	Spare	20 A	1	0 VA				1			Space	6
7	Spare	20 A	1			0 VA		1		Space		8
9	Spare	20 A	1	0 VA				1		Space		10
11	Spare	20 A	1			0 VA		1			Space	12
		Total	Load:		8 kVA		8 kVA					
oad Classification (			Conne		Demand F		Estimated			Panel	Totals	
cept	eptacle		360 V		100.00	%	360 VA					
										nn. Load:		
								T		Demand:		
										tal Conn.:		
								T	otal Est.	Demand:	2 A	
otes:												
	TOTAL CONNECTED	)							E	STIMATE	D DEMAND	
0.36 kVA										0.36 kVA	(2.4)	

	Location: CORRIDOR 70 ply From: N/DP-1 Voltage: 208Y/120V-3P						ng: Rece ire: Type			A.I.C. Rating: 22K Mains Type: MLO Mains Rating: 400 A				
СКТ	Circuit Description	Trip	Poles		4	ı	3	(	<b>C</b>	Poles	Trip	Circu	it Description	СК
1	Receptacle EXAM 183	20 A	1	900 VA	900 VA	<b>A</b>				1	20 A	Recept	acle EXAM 181	2
3	Receptacle EXAM 182	20 A	1			900 VA	900 VA			1	20 A	Recept	acle EXAM 180	4
5	Receptacle EXAM 207	20 A	1					900 VA	900 VA	1	20 A	Recept	acle EXAM 204	6
7	Receptacle EXAM 206	20 A	1	900 VA	900 VA	4				1	20 A	Recept	acle EXAM 205	8
9	Receptacle EXAM 205	20 A	1			900 VA	900 VA			1	20 A	Recept	acle EXAM 202	10
11	Receptacle EXAM 199	20 A	1					900 VA	900 VA	1	20 A	Recept	acle EXAM 203	12
13	Receptacle EXAM 200	20 A	1	900 VA	1200					1	20 A	Recept	acle-PR RM 334	14
15	Receptacle EXAM 201	20 A	1			900 VA	900 VA			1	20 A	Recep	tacle MA/RN	16
17	Receptacle MD	20 A	1					1260	1260	1	20 A	Recepta	cle Room 219,	18
19	Receptacle MD	20 A	1	1080	1620					1	20 A	Recepta	cle Room 223,	20
21	Receptacle MD	20 A	1			900 VA	540 VA			1	20 A	Recepta	cle Room 221,	22
23	Receptacle EXAM/	20 A	1					500 VA	1260	1	20 A	Recep	tacle MA/RN	24
25	ICE 705	20 A	1	1450	1440					1	20 A	•	tacle MA/RN	26
27	Receptacle LAB 701	20 A	1			720 VA	1440			1	20 A		tacle MA/RN	28
29	Receptacle MA/RN	20 A	1					1000	1080	1	20 A		cle Room 505,	30
31	Receptacle LAB 225	20 A	1	720 VA	360 VA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				1	20 A	•	otacle LAB 225	32
	Receptacle Room 502,	20 A	1	120 171			720 VA			1	20 A	•	acle Room 500,	34
35	EF-1 ROOF	20 A	1			000 171	120 171	1176	417 VA	1	20 A	•	CORRIDOR 300	36
37	Receptacle ROOF	20 A	1	180 VA	3200			1170	417 V/	3	40 A		ve Heat Room	38
39	CP-1 CORR 700	20 A	1	100 VA	3200	1176	3200					1 (CSISti		40
41	\$ R-RF 705	20 A	1			1170	3200	1725	3200					42
43	\$ R-RF 705	20 A	1	1725	3900			1725	3200	3	50 A	Deciction	ve Heat Room	44
45	\$ R-MW 705	20 A	1	1725	3900		3900			-		Resisti	ve neat Room	46
			-			1500	3900	1500	2000					48
47	\$ R-MW 705	20 A	1	046 \/A	4007			1580	3900			Danisti		
49	Receptacle EXAM/	20 A		816 VA	4267	. 4000	4007			3	50 A	Resisti	ve Heat Room	50
51	Lighting EXAM 201	20 A				1226	4267	4-4-	400=					52
53	Lighting Room 214, 21	20 A						1717	4267					54
55	Recept CM BRKRM 705		1	1450	1733		1			3	20 A	Resisti	e Heat CORR	56
57	Motor STAFF	20 A	1			1176	1733		. =					58
59	Spare	20 A	1					0 VA	1733					60
61	Spare	20 A	1	0 VA	1667					3	20 A	UH-	2 R-Heat 330	62
63	Spare	20 A	1			0 VA	1667							64
65	Spare	20 A	1					0 VA	1667					66
67	Spare	20 A	1	0 VA						1			Space	68
69	Spare	20 A	1			0 VA				1			Space	70
71	Spare	20 A	1					0 VA		1			Space	72
73	Spare	20 A	1	0 VA						1			Space	74
75	Spare	20 A	1			0 VA				1			Space	76
77	Space		1							1			Space	78
79	Space		1		1531					3	175 A		RTU-3	80
81	Space		1				1531							82
83	Space		1						1531					84
		Total	Load:	46.62	2 kVA	45.78	3 kVA	46.65	5 kVA					
Load	Classification			Connecte	ed [	Demand F	actor	Estimat	ed			Panel	Totals	
Lighti	ing			3360 V	A	100.00	%	3360 \	/A		_			
Moto	r			49462 \	/A	80.00	%	39570	VA	Tota	l Conr	ı. Load:	139.05 kVA	-
Rece	ptacle			41926 \	/A	61.93°	%	25963	VA	Total	Est. D	emand:	79.97 kVA	
Resis	stive Heat (Seasonal Load	)		44300 \	/A	25.00°	%	11075	VA		Total	Conn.:	386 A	
	·									Total	Est. D	emand:	222 A	
Note	s: \$ = PROVIDE GROUN	ID FAI	ULT CI	RCUIT B	REAKE	R.								

Supp	Location: CT 211 Dly From: Voltage: 480Y/277V-3P		Mounting: Surface Enclosure: Type 1							A.I.C. Rating: 18K Mains Type: MCB Mains Rating: 150 A					
СКТ	Circuit Description	Trip	Poles	,	Α	ı	В	(	<b>C</b>	Poles	Trip	Circu	it Description	CK	
1	GANTRY	150 A	3	0 VA										2	
3						0 VA								4	
5								0 VA						6	
7	INDOOR HEAT EXCH	25 A	3	0 VA	0 VA					3	30 A		SPD	8	
9						0 VA	0 VA							10	
11								0 VA	0 VA					12	
13	Space		1							1			Space	14	
15	Space		1							1			Space	16	
17	Space		1							1			Space	18	
19														20	
21														22	
23	Space		1							1			Space	24	
		Total	Load:	0.00	kVA	0.00	kVA	0.00	kVA						
Load	Classification		С	onnecte	ed	Demand F	actor	Estimat	ed			Panel	Totals		
										Tota	l Conn	. Load:	0 kVA		
										Total	Est. De	emand:	0 kVA		
											Total	Conn.:	0 A		
										Total	Est. De	emand:	0 A		
Notes	<b>:</b> :														
	TOTAL CONNECT	ren.									FSI	IMATEI	D DEMAND		
	TOTAL COMME										LU		DEMAND		

139.05 kVA

	Location: CORRIDOR 70 ply From: N/DP-1 Voltage: 208Y/120V-3P		ng: Reco I <b>re:</b> Type			A.I.C. Rating: 22K Mains Type: MLO Mains Rating: 400 A								
СКТ	Circuit Description	Trin	Poles		4	E	3	(		Poles	Trip	Circu	it Description	СК
1	Recepts Mammo 202	20 A	1	1080	1620					1			acle Room 101,	2
3	Receptacle CT PREP	20 A	1	1000	1020	1800	1080			1			acle Room 114,	4
5	Receptacle Room 112,	20 A	1			1000	1000	1080	1440	1			acle CONTROL	6
7	Receptacle Room 115,	20 A	1	1620	1810					1	20 A		ecept RM 115	8
9	Receptacle	20 A	1			1620	1080			1	20 A		eceptacle	10
11	RTU-1	80 A	3					6016	8406	3	125 A		RTU-2	12
13				6016	8406									14
15						6016	8406							16
17	RTU-6	50 A	3					3951	5692	3	70 A		RTU-7	18
19				3951	5692									20
21						3951	5692							22
23	Recept BW CORR 212	20 A	1					1680	2467	3	30 A	1-5 R-H	leat (Seasonal	24
25	Recepts Mammo 202	20 A	1	720 VA	2467									26
27	Receptacle CT 211	20 A	1			1080	2467							28
29	Recepts exterior	20 A	1					360 VA	560 VA	2	20 A	AD-1 C	HECK-IN/OUT	30
31	Autodoor CORR 212	20 A	1	600 VA	560 VA									32
33	Autodoor MRI RES. 213	20 A	1			600 VA	1667			3	20 A	UH-1	R-Heat RM 212	34
35	Autodoors REG 101	20 A	1					860 VA	1667					36
37	Lighting CORRIDOR	20 A	1	294 VA	1667									38
39	Lighting Room 100, 11	20 A	1			882 VA	2000			2	40 A		MAMMO	40
41	Lighting Room 115, 11	20 A	1					718 VA	2000					42
43	Resistive Heat CT PR	20 A	1	1100	3833					3	40 A	1-1, 1-2	2, 1-5 R-Heat R	44
45	Resistive Heat OFFIC	20 A	1			900 VA	3833							46
47	6-2 R-Heat CORR 114	20 A	1					900 VA	3833					48
49	Resistive Heat Room	40 A	3	1733	3733					3	40 A	Res	sistive Heat	50
51						1733	3733							52
53								1733	3733					54
55	UH-3- MRI 215	20 A	3	1667	180 VA					2	60 A	PAN	IEL A1 XRAY	56
57						1667	180 VA							58
59				0.1/4	1010			1667	1248	2	20 A	FF	U-1 (X4) 100	60
61	Spare	20 A	1	0 VA	1248	0.1/4	0.1/4							62
63	Spare	20 A	1			0 VA	0 VA	0.1/4	0.1/4	1	20 A		Spare	64
65	Spare	20 A	1		0.1/4			0 VA	0 VA	1	20 A		Spare	66
67 69	Space		1		0 VA		0 VA			1	20 A 20 A		Spare	68
71	Space Space		1				UVA			1	20 A		Spare Space	70 72
73	Space		1							1			Space	74
75	Space		1							1			Space	76
77	Space		1							1			Space	78
79	Space		1							1			Space	80
81	Space		1							1			Space	82
83	Space		1							1			Space	84
	Space	Total	Load:	50.00	kVA	50.39	kVA	50.01	⊥ I kVA				- Срасс	
Load	I Classification			onnecte		emand F		Estimat				Panel	Totals	
Lighti				1894 V		100.00		1894 \						
Moto				72197 V		80.00		57758		Tota	I Conn	. Load:	150.4 kVA	
	ptacle			24106 V		70.749		17053					I: 90.75 kVA	
	nostic Imaging NEC 517.7	3(B)		4000 V		50.00		2000 \				Conn.:		
	stive Heat (Seasonal Load	· ·		48200 V		25.009		12050		Total		emand:		
	, <del></del>	-												

TOTAL CONNECTED

150.4 kVA

79.97 kVA (222 A)





201 W Short Street, Suite 700 Lexington, KY 40507 T 859.231.7538



546 E Main Street Lexington, KY 40508 T 859.543.0933



ESTIMATED DEMAND

90.75 kVA (252 A)

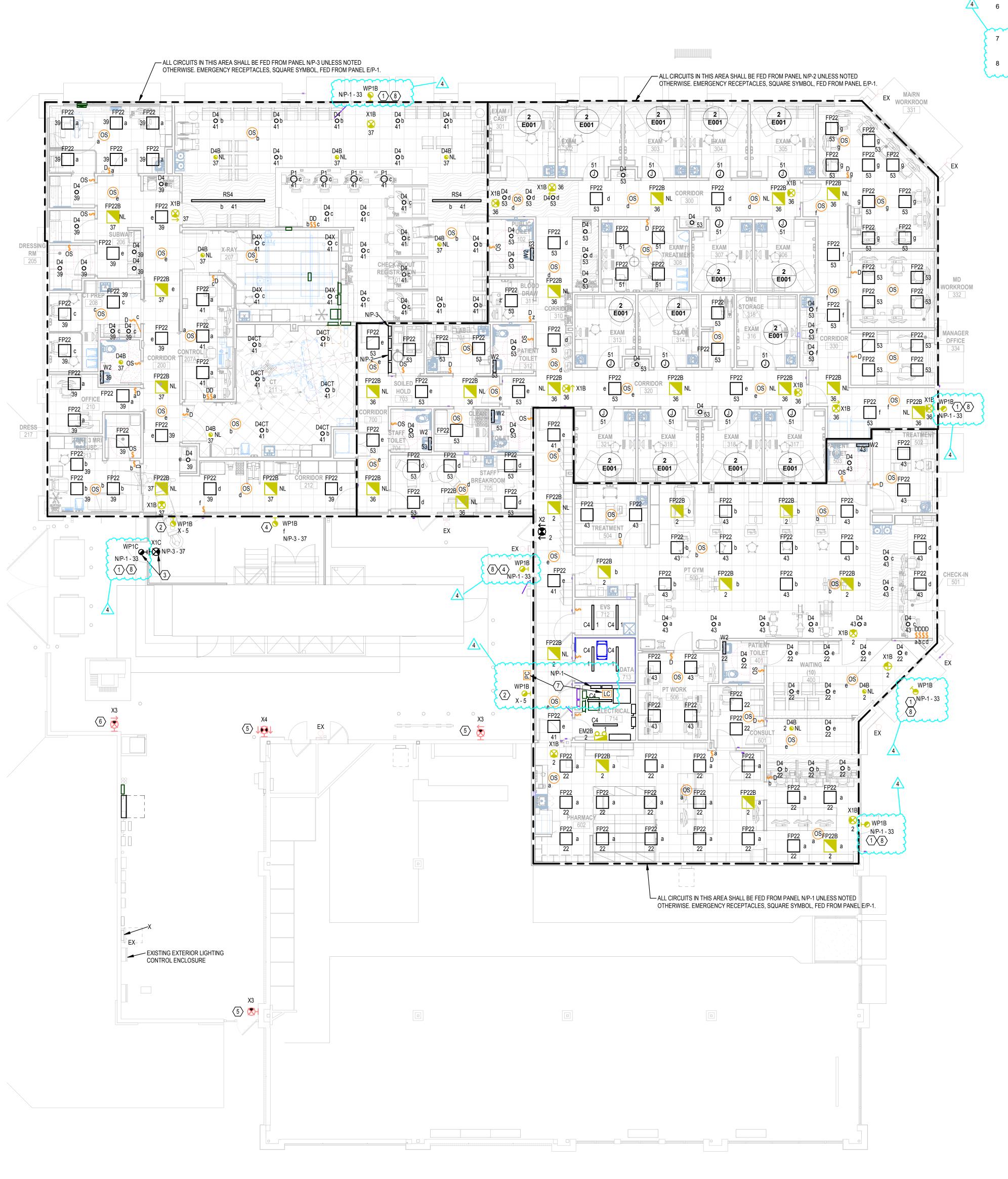
Richmond 2091 Lantern Ridge Dr Richmond, KY 40475

UK Project#: 12566, 12567, 12568, 12569

# ISSUANCES

No.	Description	Date
1	90% OWNER REVIEW SET	01/06/20
2	BID & PERMIT SET	02/07/20
3	ADDENDUM #1	03/14/20
4	ADDENDUM #2	03/21/20
i		I

PANELBOARD SCHEDULES



FIRST FLOOR - NEW WORK LIGHTING PLAN

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

## 

- 1 MOUNT +10'-0"AFF.
- 2 CONNECT NEW LUMINAIRE TO EXISTING EXTERIOR LIGHTING CIRCUIT / CONTROLS (ON HOUSE PANEL). (+9'-0"AFF)
- 3 MOUNT +9'-0"AFF. PROVIDE FLEXIBLE CONNECTION FROM BUILDING WALL FOR EASE IN REMOVAL AT A LATER DATE.
- 4 MOUNT +9'-0"AFF.
- 5 CONNECT NEW LUMINAIRE TO EXISTING EXTERIOR LIGHTING CIRCUIT (ON HOUSE PANEL `X'). PROVIDE UNSWITCHED POWER. MOUNT +8-0"AFF.
- 6 CONNECT NEW LUMINAIRE TO EXISTING EXTERIOR LIGHTING CIRCUIT (ON HOUSE PANEL `X'). PROVIDE UNSWITCHED POWER. MOUNT ON WALL AS
- 7 3-POLE EXTERIOR LIGHTING CONTACTOR AND PHOTOCELL ON ROOF.
  CONTROL IS PHOTCELL ON/OFF.
- 8 CONDUIT AND WIRING TO PANEL VIA EXTERIOR LIGHTING CONTACTOR.



201 W Short Street, Suite 700 Lexington, KY 40507 T 859.231.7538

architecture | interiors

2900 Reading Rd, Ste 312 Cincinnati, OH 45206

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PROJECT NO. 2024-05109 STATE COA FIRM NO. 01528

BROWN+KUBICAN
STRUCTURAL ENGINEERS

546 E Main Street
Lexington, KY 40508
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HealthCare
UK HealthCare

**Richmond**2091 Lantern Ridge Dr

Richmond, KY 40475

UK Project#: 12566, 12567, 12568, 12569

SHANCES

Drawn B APO,KD Checked

Checked

DED

Client No

514

Project No

7484 FIRST FL

FIRST FLOOR - NEW WORK LIGHTING PLAN

# MAMMO CONDUCTOR / CONDUIT SIZING

(2) #12, #12G IN 3/4"C

- A. BELOW ARE SIZING FOR CONDUCTOR AND CONDUIT AS REFERENCED FROM THE VENDOR DRAWINGS. REFER TO VENDOR DRAWINGS FOR ADDITIONAL
- a. "CB1" TO "ELECTRICAL PANEL": (2) #8, #8G IN 3/4"C b. "CB1" TO "FD1" VIA "WH1": (2) #8, #8G IN 3/4"C c. "FD1" TO BACK OF GANTRY: 3/4" SEALTIGHT (2) #12, #12G IN 3/4"C d. REMOTE EM STOP "EPO" TO "CB1":

DRESSING RM

PAD MOUNTED UTILITY TRANSFORMER

MAIN SERIVCE DISCONNECT SWITCH

UTILITY ELECTRIC
METER #604

e. "WL" TO "FD1":

# X-RAY CONDUCTOR / CONDUIT SIZING

- A. BELOW ARE SIZING FOR CONDUCTOR AND CONDUIT AS REFERENCED FROM THE VENDOR DRAWINGS. REFER TO VENDOR DRAWINGS FOR ADDITIONAL INFORMATION. 4 #2, #6G IN 2"C (+10' COIL AT `F') a. XRAY "A" TO "F": b. XRAY "A1" TO "F": 2 #12, #12G 3/4"C
- c. "G" TO "B": WIRE IN 2"C WIRE IN 2"C d. "E" TO "F": B. ALL CONDUITS TO HAVE WIDE SWEEPING BENDS. 90 DEGREE ELBOWS ARE NOT ACCEPTABLE.

CHECK-IN/OUT

REGISTRATION

— ALL CIRCUITS IN THIS AREA SHALL BE FED FROM PANEL N/P-3 UNLESS NOTED

OTHERWISE. EMERGENCY RECEPTACLES, SQUARE SYMBOL, FED FROM PANEL E/P-1.

#### CT CONDUCTOR / CONDUIT SIZING A. BELOW ARE SIZING FOR CONDUCTOR AND CONDUIT AS REFERENCED FROM THE VENDOR DRAWINGS. REFER TO VENDOR DRAWINGS FOR ADDITIONAL INFORMATION. (2) #12, #12G, 3/4"C a. CT PANEL "MP" TO "EPO": b. "EPO" TO "EPO": (2) #12, #12G, 3/4"C c. "EPO" TO GANTRY "B": (2) #12, #12G, 3/4"C d. CT PANEL "MP" TO "SPD": (3) #10, #12G, 3/4"C e. CT PANEL "MP" TO "BP": (4) #2/0, #6G, 2"C f. "B" TO "COD": g. "B" TO "IRS": h. "B" TO "UPS": i. "B" TO "WAP": "S" TO "B1": k. "B" TO "DS": (2) #12, 3/4"C I. "B" TO "WARNING LIGHT": (2) #12, #12G, 3/4"C m. CT PANEL "MP" TO (S) (4) #10, #10G, 3/4 n. "S" TO "S1" (ON ROOF) WIRE IN 3/4"C

- ALL CIRCUITS IN THIS AREA SHALL BE FED FROM PANEL N/P-2 UNLESS NOTED OTHERWISE. EMERGENCY RECEPTACLES, SQUARE SYMBOL, FED FROM PANEL E/P-1.

- ALL CIRCUITS IN THIS AREA SHALL BE FED FROM PANEL N/P-1 UNLESS NOTED

## **GENERAL NOTES**

WORKROOM

WORKROOM

PATIENT TOILET 503

. **→**MON/54"

A. EXISTING FEEDER CONDUITS SHOWN FOR REFERENCE ONLY. EXACT ROUTING TO BE FIELD VERIFIED. CAP AND MARK LOCATION ON RECORD B. PROVIDE TAMPERPROOF RECEPTACLES THROUGHOUT BUILDING. C. ALL EMERGENCY CIRCUITS FED FROM PANEL E/P-1.

# **○ NOTES**

- 1 EC SHALL BE RESPONSIBLE FOR PROVIDING ALL VENDOR REQUIRED SYSTEM POWER, WALL/FLOOR DUCTS, GROUNDING, LIGHTING, RACEWAYS, CONDUITS, CABLE TRAY, ETC. AS DEFINED PER VENDOR DRAWINGS. CUT AND PATCH FLOOR AS REQUIRED FOR CONDUIT/FLOOR DUCT
- 2 CT POWER PANEL FOR VENDOR EQUIPMENT. REFER TO SELECTED VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 XRAY SHUNT TRIP ENCLOSED CIRCUIT BREAKER FOR VENDOR EQUIPMENT.
- 4 XRAY LOADCENTER FOR VENDOR EQUIPMENT. REFER TO SELECTED VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.
- 5 40AMP-2POLE ENCLOSED SHUNT TRIP CIRCUIT BREAKER FOR VENDOR EQUIPMENT. EXTEND 3/4"C, 3 #8, 1 #10G TO PANEL.
- 6 CUT AND PATCH PAVEMENT FOR INSTALLATION OF FEEDER. COORDINATE WITH OTHER UTILITIES IN AREA. ROUTE FEEDER UP WALL AND INTO
- 7 CONNECT COILING GATE AND INSTALL KEYED SWITCH.
- 8 CONNECT AUTOMATIC DOOR AND INSTALL ASSOCIATED DEVICES, CONDUI AND WIRING.
- 9 EXTERIOR OUTLET AND ELECTRICAL EQUIPMENT FOR MOBILE MRI. REFER TO SINGLE LINE DIAGRAM ON DRAWING E002.
- 10 PROVIDE FLOOR MOUNTED FREESTANDING UNISTRUT RACK TO SUPPORT TRANSFORMER ABOVE.
- 11 PROVIDE ON/OFF SWITCH AND CONNECT AUTO FLUSH VALVE. COORDINATE WITH DIVISION 22 CONTRACTOR.
- 12 RECEPTACLE CIRCUIT NUMBER FOR EXAM ROOM.
- 13 DEVICES MOUNTED IN CASEWORK. COORDINATE WITH CASEWORK INSTALLER.
- 14 DEVICES MOUNTED IN CASEWORK. COORDINATE WITH CASEWORK INSTALLER. CUT AND PATCH FLOOR FOR CONDUIT INSTALLATION OUT TO
- 15 CONNECT HOOD. COORDINATE WITH HOOD INSTALLER.
- 16 CONNECT EXAM LIGHT IN CEILING. COORDINATE WITH EXAM LIGHT
- 17 CUT AND PATCH FLOOR FOR CONDUIT INSTALLATION TO FLOOR BOX.
- 18 EMERGENCY POWER OFF BUTTON (EPO) FOR MOBILE MRI. EXTEND CONDUIT AND WIRING TO SHUNT TRIP CIRCUIT BREAKER IN PANEL.
- 19 POWER FOR CHANGING TABLE. COORDINATE EXACT REQUIREMENTS WITH
- 20 RECEPTACLE FOR PARX SYSTEM.

CASEWORK.

- 21 PROVIDE CONNECTION TO DOOR INTERLOCKING SYSTEM. CONNECT TO LOCAL RECEPTACLE CIRCUIT. COORDINATE REQUIREMENTS WITH VENDOR.
- 22 CONFIRM NEMA CONFIGURATION PRIOR TO INSTALLATION.
- 23 PROVIDE CONCRETE BASE 4" THICK AND 3" LARGER THAN FOOTPRINT OF UNIT ON ALL SIDES.
- 24 SUPPROT TRANSFORMER FROM STRUCTURE ABOVE.





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# **UK HealthCare** Richmond

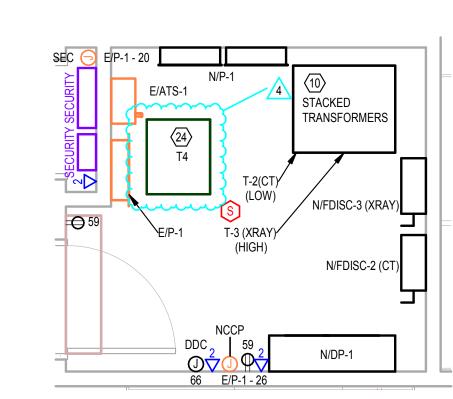
2091 Lantern Ridge Dr Richmond, KY 40475

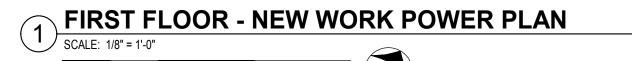
UK Project#: 12566, 12567, 12568, 12569

ISS	UANCES	
No.	Description	Date
1	90% OWNER REVIEW SET	01/06/2025
2	BID & PERMIT SET	02/07/2025
3	ADDENDUM #1	03/14/2025
4	ADDENDUM #2	03/21/2025

APO,KDS

FIRST FLOOR - NEW **WORK POWER PLAN** 







1 INDOOR UNIT FED FROM OUTDOOR UNIT. 2 PROVIDE FLEXIBLE CONNECTION TO UNIT FROM WALL FOR EASE IN

REMOVAL AT A LATER DATE.

3 DO NOT ROUTE ANY CONDUITS IN WORKING CLEARANCE SPACES, FOR UNITS ABOVE THE CEILING.

4 CONNECT DIGITAL MIXING VALVE (DMV-1) FROM RECEPTACLE CIRCUIT.

5 3/4"C, 3 #8, 1 #10G. (CT)

6 1"C, 3 #6, 1 #10G. (XRAY)

49,51,53

34,36,38 62,64,66

3 5.0 kVA N/P-2 62,64,66 3 5.0 kVA N/P-3 55,57,59



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2900 Reading Rd, Ste 312 Cincinnati, OH 45206

T 513.587.1877 PROJECT NO. <u>2024-05109</u> STATE COA FIRM NO. <u>01528</u> BROWN+NUDIC STRUCTURAL ENGINEERS

Lexington, KY 40508 T 859.543.0933

HealthCare

# **UK HealthCare** Richmond

Richmond, KY 40475

UK Project#: 12566, 12567, 12568, 12569

2091 Lantern Ridge Dr

ISSUANCES No. Description 1 90% OWNER REVIEW SET 01/06/2025 2 BID & PERMIT SET 02/07/2025

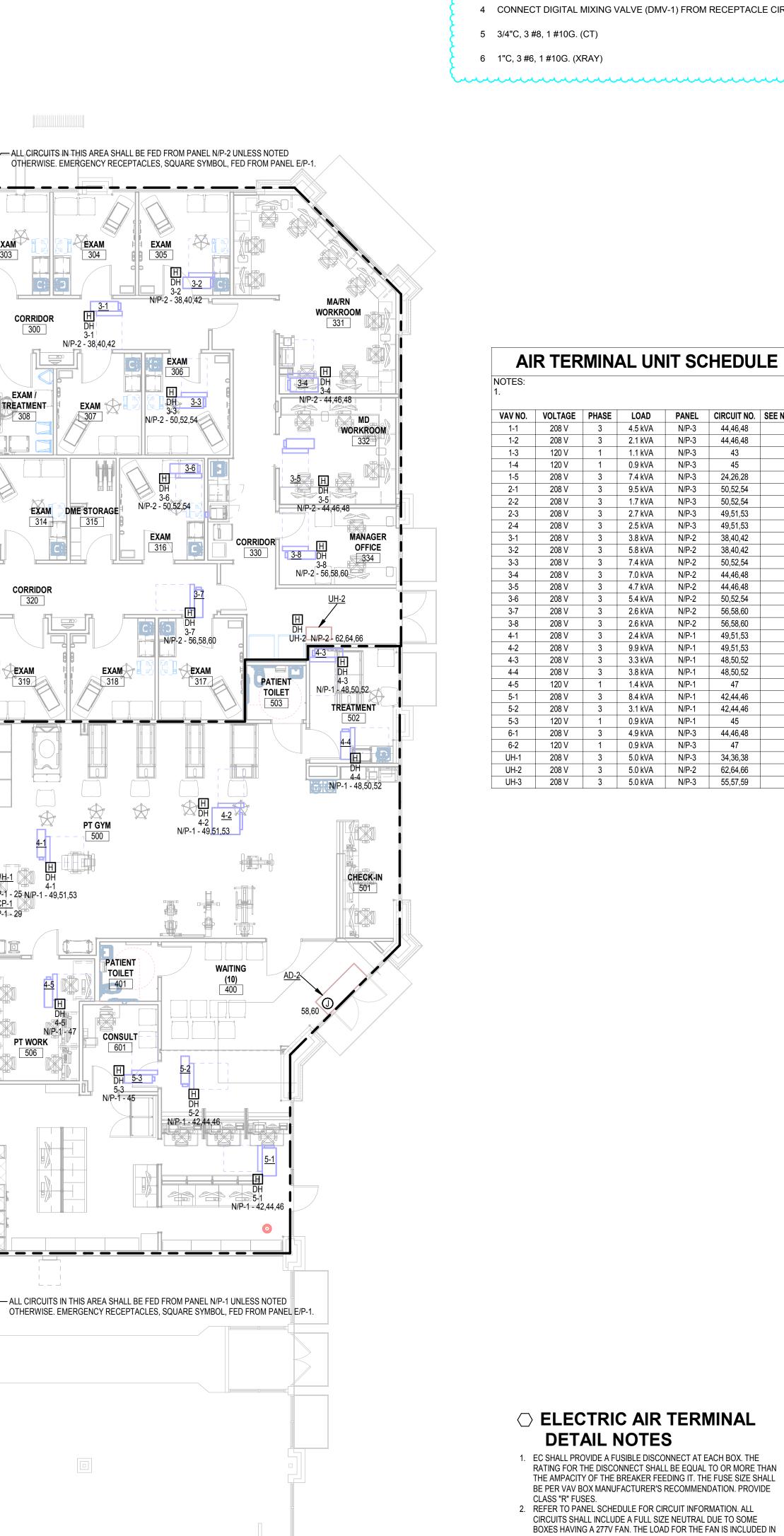
	DID & PERIVITI SET	02/01/202
3	ADDENDUM #1	03/14/202
4	ADDENDUM #2	03/21/202

Drawn By

APO,KDS

FIRST FLOOR -**ELECTRICAL NEW WORK PLAN** 

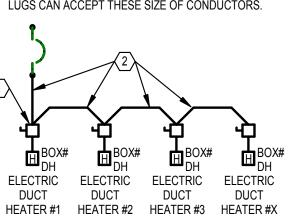
E501



# ○ ELECTRIC AIR TERMINAL **DETAIL NOTES**

 EC SHALL PROVIDE A FUSIBLE DISCONNECT AT EACH BOX. THE RATING FOR THE DISCONNECT SHALL BE EQUAL TO OR MORE THAN THE AMPACITY OF THE BREAKER FEEDING IT. THE FUSE SIZE SHALL BE PER VAV BOX MANUFACTURER'S RECOMMENDATION. PROVIDE CLASS "R" FUSES.

CIRCUITS SHALL INCLUDE A FULL SIZE NEUTRAL DUE TO SOME BOXES HAVING A 277V FAN. THE LOAD FOR THE FAN IS INCLUDED IN THE TOTAL LOAD FOR THE BOX. RUN #8 FOR 40A CIRCUITS AND #10 FOR 30A CIRCUITS. CONFIRM WITH BOX MANUFACTURER THAT THEIR LUGS CAN ACCEPT THESE SIZE OF CONDUCTORS.



**LECTRIC AIR TERMINAL DETAIL** 



— ALL CIRCUITS IN THIS AREA SHALL BE FED FROM PANEL N/P-3 UNLESS NOTED

N/P-3 - 44,46,48

TOILET

ZONE 3 MRI RESUSC.

DRESSING
RM
204
DRESSING
RM
205

OTHERWISE. EMERGENCY RECEPTACLES, SQUARE SYMBOL, FED FROM PANEL E/P-1.

REGISTRATION

N/P-3 - 55,57,59

STAFF TOILET 704

CAST

PUBLIC TOILET

BLOOD DRAW

BREAKROOM

CORRIDOR

EXAM DME STORAGE