

# JPS RADONC LINAC REPLACEMENT

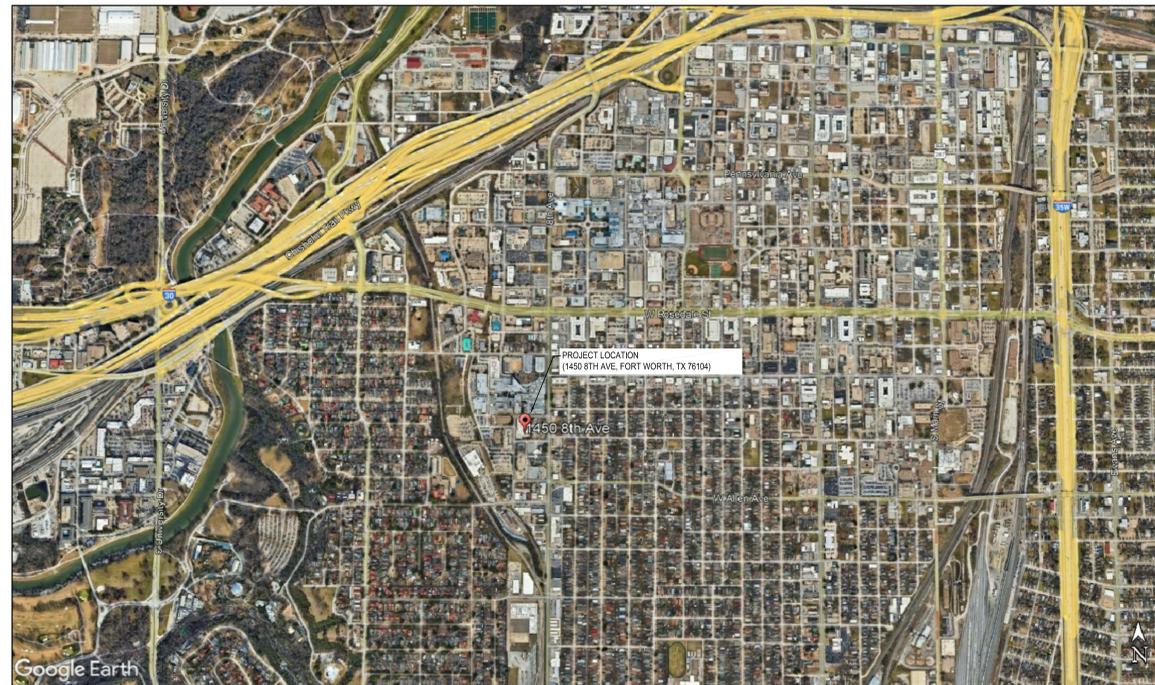
1450 8TH AVENUE, FORT WORTH, TEXAS 76104

MEP ENGINEER:  
 BAIRD, HAMPTON & BROWN, INC.  
 6300 RIDGLEA PL., STE. 700  
 FORT WORTH, TEXAS 76116  
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CODE SUMMARY:
2021 INTERNATIONAL BUILDING CODE WITH CITY OF FORT WORTH AMENDMENTS
2021 INTERNATIONAL EXISTING BUILDING CODE WITH CITY OF FORT WORTH AMENDMENTS
2021 INTERNATIONAL FIRE CODE WITH CITY OF FORT WORTH AMENDMENTS
2021 INTERNATIONAL MECHANICAL CODE WITH CITY OF FORT WORTH AMENDMENTS
2021 INTERNATIONAL PLUMBING CODE WITH CITY OF FORT WORTH AMENDMENTS
2021 INTERNATIONAL FUEL AND GAS CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH CITY OF FORT WORTH AMENDMENTS
2023 NATIONAL ELECTRICAL CODE WITH CITY OF FORT WORTH AMENDMENTS

## TABLE OF DRAWINGS

COVER		ELECTRICAL		MECHANICAL	
SHEET NO.	SHEET NAME	SHEET NO.	SHEET NAME	SHEET NO.	SHEET NAME
CVR	COVER SHEET	E0.01	ELECTRICAL SYMBOL LIST AND DETAILS	M1.01	MECHANICAL PLANS
		E1.01	ELECTRICAL POWER PLANS	M1.02	MECHANICAL ROOF PLAN
		E1.02	VARIAN EQUIPMENT REMOVAL/INSTALLATION ROUTE		
		E2.01	ELECTRICAL LIGHTING PLANS		



**1 SITE PLAN**  
 NOT TO SCALE

## GENERAL NOTES:

- AS A CONDITION OF PERFORMING WORK ON THE PREMISES, ALL CONTRACTORS ARE OBLIGATED TO READ, UNDERSTAND, AND COMPLY WITH THE REQUIREMENTS CONTAINED IN JPS RULES AND REGULATIONS FOR CONSTRUCTION ACTIVITIES MANUAL. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY POTENTIAL APPLICABILITY OF THE REGULATIONS TO THE PROJECT AND MAKE APPROPRIATE INTERPRETATIONS. CONSULT WITH JPS REPRESENTATIVE AS NEEDED.
- FURNISH AND INSTALL ALL MATERIALS, LABOR, EQUIPMENT AND SUPERVISION TO PROVIDE A COMPLETE PROJECT, EVEN IF DETAILS ARE NOT SPECIFICALLY SHOWN. NOTIFY JPS PROJECT MANAGER AS SOON AS PRACTICAL OF ANY DISCREPANCIES THAT MAY AFFECT THE PROJECT BEFORE PROCEEDING WITH RELATED WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND TAKE ALL FIELD MEASUREMENTS NECESSARY TO DETERMINE THE EXACT EXTENT OF WORK TO BE PERFORMED. PRIOR TO PROCEEDING WITH ANY WORK, INFORM JPS PROJECT MANAGER OF DISCREPANCIES THAT MAY AFFECT THE PROJECT BEFORE PROCEEDING WITH RELATED WORK. THE CONTRACTOR'S FIELD MEASUREMENTS AND OBSERVATIONS SHALL TAKE PRECEDENCE OVER DRAWING DIMENSIONS AND DELINEATIONS. ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE PERFORMED AFTER REGULAR HOURS AT PROJECT MANAGER AND CONSTRUCTION MANAGER'S DISCRETION AND SHALL BE COORDINATED.
- THE CONTRACTOR SHALL BE AND IS RESPONSIBLE FOR COORDINATING CAREFULLY ALL WORK ON THIS PROJECT WITH THE JPS PROJECT MANAGER AND CONSTRUCTION MANAGER. THE CONTRACTOR SHALL NOT CAUSE ANY UTILITY SYSTEM SHUTDOWNS OR OUTAGES WITHOUT SPECIFIC APPROVAL.
- COORDINATE ALL MATERIAL, SYSTEMS AND INSTALLATION OF ALL WORK, SUCH AS DUCTWORK ABOVE EQUIPMENT, LIGHT FIXTURES, CONDUIT, PIPING, AND WITH OTHER TRADES NEW AND/OR EXISTING WORK.
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- ALL MATERIALS, EQUIPMENT AND APPURTENANCES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PRODUCT OR SYSTEM MANUFACTURER'S PRINTED INSTRUCTION.
- ADDITIONAL SAFETY REQUIREMENTS FOR CONSTRUCTION INCLUDE:
  - CONSTRUCTION EMPLOYEES MUST WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) BASED ON JHA AND PPE ASSESSMENT THAT IS CONDUCTED BY CONTRACTOR.
  - WHEN GAS-POWERED EQUIPMENT IS USED DURING CONSTRUCTION, THE CONTRACTOR MUST HAVE A CALIBRATED AND OPERATIONAL 4-GAS METER TO MEASURE THE CARBON MONOXIDE AND HYDROGEN SULFIDE LEVELS. EQUIPMENT MUST BE CALIBRATED AND MAINTAINED BY MANUFACTURER'S SPECIFICATIONS.
  - CONTRACTORS ARE NOT AUTHORIZED TO SMOKE TOBACCO PRODUCTS ON-SITE.
- DRAWINGS SHOW THE EXTENT OF WORK AND ARRANGEMENT DIAGRAMMATICALLY. A PRECISE COORDINATED LAYOUT OF THE VARIOUS SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- DEMOLITION ITEMS AND DEBRIS GENERATED AS A RESULT OF WORK UNDER CONTRACT EXCEPT FOR THE EXISTING VARIAN MACHINE AND EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF OFF-SITE, UNLESS OTHERWISE DIRECTED BY THE JPS CONSTRUCTION MANAGER. EACH CONTRACTOR WILL BE RESPONSIBLE FOR DAILY REMOVAL OF ALL TRASH.
- ALL MATERIAL SHALL BE NEW, ASBESTOS FREE, OF HIGH QUALITY, AND APPROVED BY DESIGN TEAM UNLESS OTHERWISE STATED OR ARRANGED.
- ALL RACEWAYS SHALL BE FIELD-ROUTED.
- CONTRACTOR SHALL PROVIDE A SET OF SUBMITTAL DATA FOR REVIEW AND APPROVAL TO JPS PROJECT MANAGER IN PDF FORMAT. PROVIDE HARDCOPY OF SUBMITTAL AND/OR SAMPLE UPON JPS PROJECT MANAGER REQUEST.
- AS-BUILT DRAWINGS AND EQUIPMENT O&M MANUALS WITH INSTRUCTIONS ARE REQUIRED PRIOR TO FINAL INVOICE PAYMENT. AS-BUILT DRAWINGS ARE ANNOTATED COPIES OR ORIGINAL CONSTRUCTION DOCUMENTS THAT HAVE BEEN CLEARLY MARKED-UP TO NOTE VARIOUS CHANGES MADE IN THE FIELD THAT VARY SIGNIFICANTLY FROM THE ENGINEERING DOCUMENTS OR BLUEPRINTS. THE CONTRACTOR SHALL SUPPLY THE PROJECT MANAGER WITH PDF COPIES OF THE O&M MANUALS WITH INSTRUCTIONS FOR EACH PIECE OF NEW EQUIPMENT.
- CONTRACTOR AND ALL SUB-CONTRACTORS SHALL HAVE A REPRESENTATIVE AVAILABLE DURING EQUIPMENT START-UP AND COMMISSIONING TO RESOLVE OR TROUBLESHOOT ISSUES RELATED TO THEIR WORK.
- PROJECT LAY-DOWN AREA IS ANTICIPATED TO BE WITHIN THE EXISTING VAULT. COORDINATE PARKING, TEMPORARY JOB OFFICE SPACE, AND DELIVERIES/LOADING ZONES WITH JPS PROJECT MANAGER.



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JPS HEALTH NETWORK  
 JPS RadOnc LINAC REPLACEMENT

1450 8TH AVENUE FORT WORTH, TEXAS 76104

COVER SHEET

NO.	DESCRIPTION	DATE



09/09/2025

PROJECT NUMBER: 2025.042.002  
 DATE: 09/09/2025 DRAWN BY: BHB  
 DESIGN BY: BHB CHECKED BY: BHB

SHEET  
**CVR**  
 1 of 1 CRV SHEETS

9/3/2025 1:54PM E:\2025\000\000\2025\042\002 - JPS 8th Ave Oncology Center LINAC Replacement\01\_Design & Drafting\08\_Elec\E0.01.dwg Layout1

ELECTRICAL SYMBOL LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT FIXTURE - REFER TO NOTE 1		DUPLEX RECEPTACLE
	DOWNLIGHT FIXTURE		TAMPERPROOF DUPLEX RECEPTACLE
	WALL MOUNTED LIGHT FIXTURE		QUAD RECEPTACLE
	EXIT LIGHT FIXTURES		GFI RECEPTACLE, WP FOR ALL OUTDOOR LOCATIONS
	SINGLE POLE SWITCH		FLUSH FLOOR RECEPTACLE
	THREE WAY SWITCH		SPECIAL PURPOSE RECEPTACLE
	DIMMER SWITCH		JUNCTION BOX
	KEYED SWITCH		WALL MOUNTED JUNCTION BOX
	MOTOR RATED SWITCH		PLUGMOLD
	WALL MOUNTED OCCUPANCY SENSOR SWITCH		TELEPHONE OUTLET WITH 3/4" C STUBBED INTO CLG
	208/120 V PANELBOARD		FLOOR MTD TELEPHONE OUTLET WITH 3/4" C STUBBED INTO CLG
	480/277 V PANELBOARD		DATA OUTLETPPOINT OF SALE OUTLET WITH 3/4" C STUBBED INTO CLG
	CONDUIT AND HOMERUN TO PANEL - NOTE 2		TELEVISION OUTLET
	CONDUIT W/ ONE GND, 3 PHASE & ONE NEUTRAL		FIRE ALARM PULL STATION
	CONDUIT W/ ONE PHASE & ONE NEUTRAL		FIRE ALARM STROBE/HORN UNIT
	GROUND		FIRE ALARM STROBE ONLY
	MOTOR		CEILING MOUNTED OCCUPANCY SENSOR
	DISCONNECT SWITCH		CEILING MOUNTED POWER PACK
	DISCONNECT SIZE / POLES / FUSE SIZE		CEILING MTD SMOKE DETECTOR
	EMERGENCY STOP PUSHBUTTON		DUCT MOUNTED SMOKE DETECTOR
	MOUNTED ABOVE COUNTER		CEILING MOUNTED HEAT DETECTOR
	ABOVE FINISHED FLOOR		INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN
	GROUND FAULT CIRCUIT INTERRUPTING		INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED
	ELECTRICAL CONTRACTOR		INDICATES INSTALLED FLUSH IN CEILING
	MECHANICAL CONTRACTOR		WEATHERPROOF

NOTES:

- LETTER ADJACENT TO FIXTURE DENOTES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE.
- WHEN NO HASH MARKS ARE SHOWN, PROVIDE ONE PHASE & ONE NEUTRAL CONDUCTOR.
- ALL LIGHT FIXTURES ON LIGHTING PLANS ARE TYPE 'A' UNLESS NOTED OTHERWISE.
- SOME OF THESE SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

LIGHT FIXTURE SCHEDULE		
TYPE	DESCRIPTION	WATTAGE
A1	2'x4' LED TROFFER, STEEL HOUSING, GRID/LAY-IN TRIM TYPE, FLAT WHITE STEEL DOOR, .125" THICK #12 ACRYLIC PATTERN LENS, 4800 LUMENS, 3500 COLOR TEMPERATURE, UNIVERSAL VOLTAGE DIMMING DRIVER, LITHONIA #2GTL 4 48L, GZ10 LP835 OR EQUIVALENT.	35.8 W LED WITH UNIT
A2	2'x2' LED TROFFER, STEEL HOUSING, GRID/LAY-IN TRIM TYPE, FLAT WHITE STEEL DOOR, .125" THICK #12 ACRYLIC PATTERN LENS, 2000 LUMENS, 3500 COLOR TEMPERATURE, UNIVERSAL VOLTAGE DIMMING DRIVER, LITHONIA #2GTL 2 20L, GZ10 LP835 OR EQUIVALENT.	18.4 W LED WITH UNIT
B1	6" LED DOWNLIGHT, 3500 COLOR TEMPERATURE, 1500 LUMENS, DOWNLIGHT TRIM STYLE, CLEAR TRIM COLOR, SEMI-SPECULAR TRIM FINISH, 0-10V 120/277V DIMMING DRIVER, LITHONIA #LDN6 3515 LOBAR LSS MVOLT GZ1 OR EQUIVALENT.	17.5 W LED WITH UNIT
C1	4'x8' VISUAL THERAPY LED LIGHT FIXTURE, GRID CEILING, MVOLT DRIVER, 1" SPACING (STANDARD), 6" SPACING, NSN#61 IMAGE, 0-10V DIMMING (2'x2), GLOSS WHITE, (8-2'x2 FIXTURES WITH SINGLE IMAGE) HEALTHCARE LIGHTING #HCV322 G MVOLT SP1 F8 TA1890 GWAM MEZ278793 OR EQUIVALENT.	312 W LED WITH UNIT
X1	BUG-EYE TYPE EMERGENCY LIGHT, MAINTENANCE FREE NICKEL-CADMIUM BATTERY, WHITE THERMOPLASTIC HOUSING, SELF DIAGNOSTIC, CIRCULAR HEAD SHAPE WITH LED LAMPS, LITHONIA #ELM6L SERIES OR EQUIVALENT.	LED WITH UNIT

### Interior Lighting Compliance Certificate

**Project Information**

Energy Code: 2015 IECC  
 Project Title: 2025.042.002  
 Project Type: Alteration

Construction Site: 1450 8th Avenue - JPS RadOnc  
 LINAC Replacement  
 Fort Worth, Texas 76104

Owner/Agent: Chris Fowler  
 Baird, Hampton & Brown  
 6300 Roplea Place, Suite 700  
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Designer/Contractor: Chris Fowler  
 Baird, Hampton & Brown  
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Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts
1-Accelerator 538 (Healthcare Facility:Exam/Treatment)	764	1.66	1268
2-Control 539 (Healthcare Facility:Nurses Station)	77	0.71	55
Total Allowed Watts =			1323

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C of Fixture	D Fixture Watt.	E (C X D)
Accelerator 538 (Healthcare Facility: Exam/Treatment, 764 sq.ft.)				
LED: A1: 2'x4 Troffer: Other:	1	4	36	143
LED: B1: 6" Downlight: Other:	1	10	18	175
LED: C1: Therapy Light: Other:	8	1	312	312
Control 539 (Healthcare Facility: Nurses Station, 77 sq.ft.)				
LED: B1: 6" Downlight: Other:	1	3	18	52
LED: A2: 2'x2 Troffer: Other:	1	2	18	37
Total Proposed Watts =			720	

**Interior Lighting PASSES**

**Interior Lighting Compliance Statement**

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Chris Fowler - Electrical Designer *[Signature]* 08/12/2025  
 Name - Title Signature Date

Project Title: 2025.042.002 Report date: 08/12/25  
 Data filename:

**BAIRD, HAMPTON & BROWN**  
 engineering and surveying

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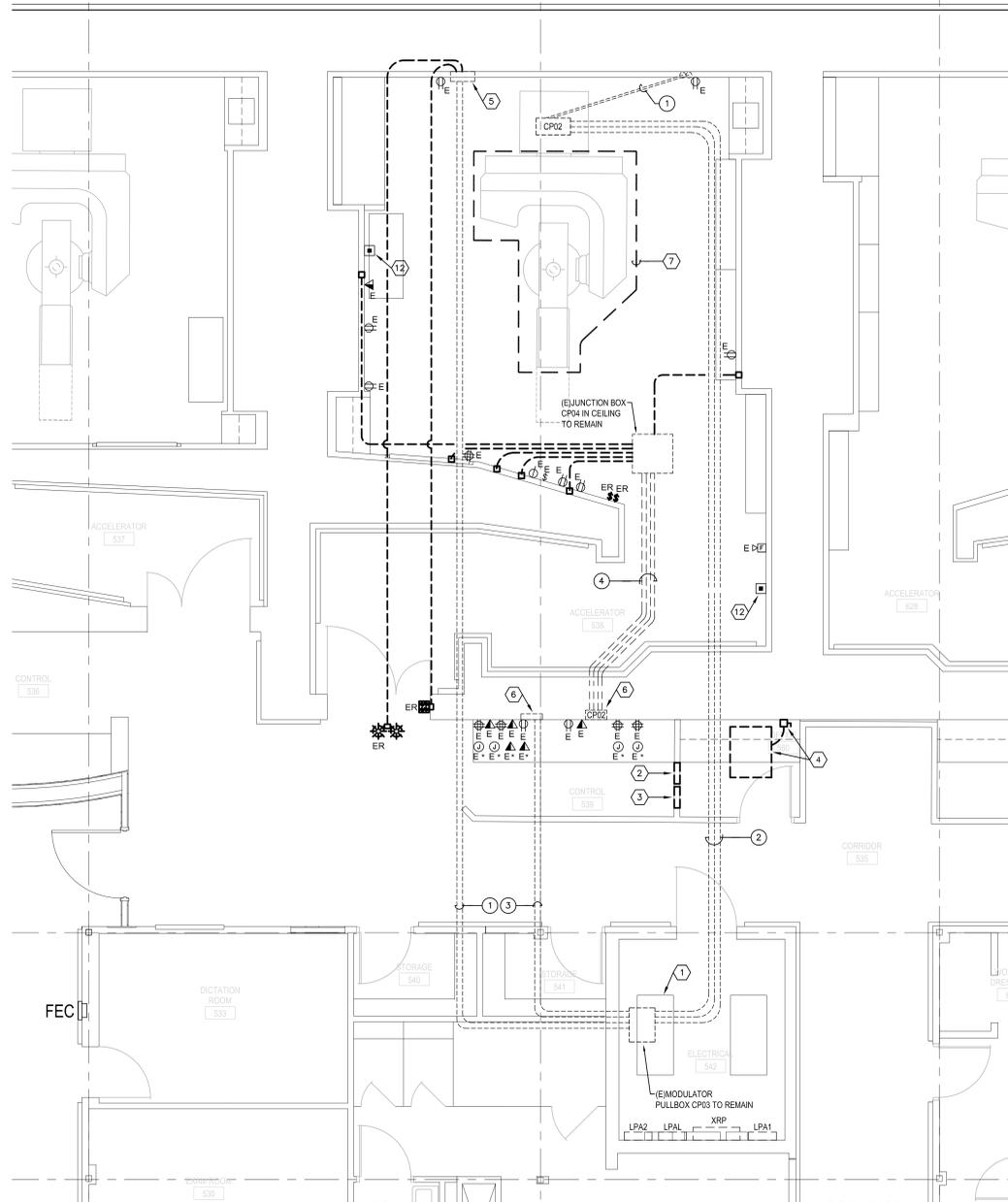
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ELECTRICAL SYMBOL LIST AND DETAILS	NO.	DESCRIPTION	DATE

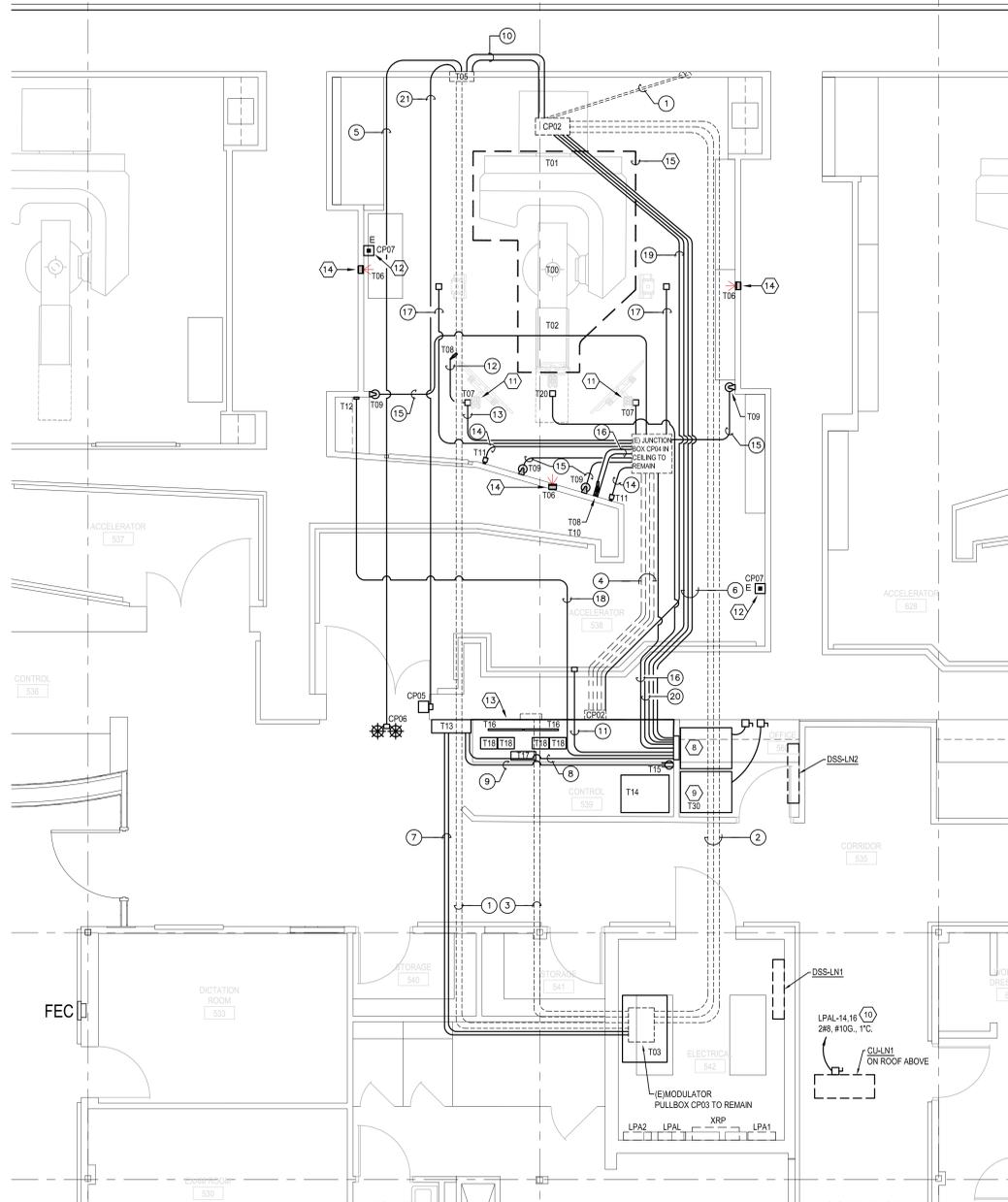


PROJECT NUMBER: 2025.042.002  
 DATE: 09/09/2025 DRAWN BY: BHB  
 DESIGN BY: BHB CHECKED BY: BHB

SHEET  
**E0.01**  
 1 of 4 E SHEETS



**1 FIRST FLOOR DEMOLITION ELECTRICAL POWER PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH



**2 FIRST FLOOR ELECTRICAL POWER PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH

**SINGLE LINE DIAGRAM LEGEND:**

- EXISTING TO REMAIN UNLESS OTHERWISE NOTED
- - - EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED
- NEW WORK

**SHEET NOTES:**

- NOT ALL EXISTING ELECTRICAL DEVICES MAY BE SHOWN. EXISTING DEVICES SHOWN ARE PLACED AND LABELED BASED UPON EXISTING SITE CONDITIONS. CONTRACTOR TO VERIFY ALL EXISTING CIRCUIT AND CONDUITS NOTED ON PLAN.
- MAINTAIN EXISTING CIRCUITS AS REQUIRED FOR DEVICES TO REMAIN.
- REFER TO MANUFACTURER'S DRAWINGS FOR REQUIREMENTS TO INSTALL CABLING AND ADDITIONAL MOUNTING HARDWARE FOR EQUIPMENT FURNISHED AND INSTALLED BY OTHERS.
- EXISTING CONDUITS SHOWN IN ACCELERATOR ROOM 538 ARE DIAGRAMMATIC. FIELD CONFIRM EXACT ROUTING. NOTIFY MANUFACTURER FOR CONDUIT LENGTHS EXCEEDING 12'.
- MAINTAIN EQUIPMENT CLEARANCES FOR NEW TRANSFORMER POWER CONDITIONER IN ACCORDANCE WITH NEC 110.26. ENSURE THAT CIRCUIT BREAKERS ARE ACCESSIBLE AND ARE PROVIDED WITH THE PROPER CLEARANCES IN FRONT OF THEM.

**CONDUIT SCHEDULE: "E"**

- TWO 2" CONDUITS TO REMAIN. CONTRACTOR SHALL CONFIRM INSTALLATION LOCATION AND TOTAL PATHWAY LENGTH OF THESE CONDUITS PRIOR TO INSTALLATION OF NEW EQUIPMENT.
- THREE 4" CONDUITS TO REMAIN. CONTRACTOR SHALL CONFIRM INSTALLATION LOCATION AND TOTAL PATHWAY LENGTH OF THESE CONDUITS PRIOR TO INSTALLATION OF NEW EQUIPMENT.
- TWO 4" CONDUITS TO REMAIN. CONTRACTOR SHALL CONFIRM INSTALLATION LOCATION AND TOTAL PATHWAY LENGTH OF THESE CONDUITS PRIOR TO INSTALLATION OF NEW EQUIPMENT.
- TWO 3" CONDUITS AND TWO 2" CONDUITS TO REMAIN. CONTRACTOR SHALL CONFIRM INSTALLATION LOCATION AND TOTAL PATHWAY LENGTH OF THESE CONDUITS PRIOR TO INSTALLATION OF NEW EQUIPMENT.
- PROVIDE A 1" CONDUIT FROM THE RELAY JUNCTION BOX (T05) TO THE WARNING LIGHTS. CONTRACTOR SHALL CONFIRM INSTALLATION LOCATION AND TOTAL PATHWAY LENGTH OF THESE CONDUITS PRIOR TO INSTALLATION OF NEW EQUIPMENT.
- PROVIDE THREE 4" CONDUITS FROM EQUIPMENT STAND (T01) TO CONTROL EQUIPMENT PULLBOX (T14) BELOW COUNTER.
- PROVIDE TWO 2" CONDUITS FROM MAIN CIRCUIT BREAKER PANEL (T13) TO MODULATOR CABINET (T03).
- PROVIDE ONE 2" CONDUIT FROM MAIN CIRCUIT BREAKER PANEL (T13) TO THE EQUIPMENT PULLBOX (T14) BELOW COUNTER. CONTRACTOR SHALL ENSURE CONDUIT LENGTH DOES NOT EXCEED 35'-0".
- PROVIDE ONE 3/4" CONDUIT FROM MAIN CIRCUIT BREAKER PANEL (T13) TO IEC 60309 RECEPTACLE (T15).
- PROVIDE TWO 2" CONDUITS FROM THE RELAY JUNCTION BOX (T05) TO THE EQUIPMENT STAND (T01).
- PROVIDE ONE 3" CONDUIT FROM CONTROL EQUIPMENT PULLBOX BELOW COUNTER TO TREATMENT ROOM.
- PROVIDE ONE 1 1/4" CONDUIT FROM IN-ROOM MONITOR AND CEILING MOUNTED MICROPHONE.
- PROVIDE ONE 2" CONDUIT FROM EQUIPMENT PULLBOX (T14) BELOW COUNTER TO IN-ROOM MONITOR (T07) VIA EXISTING JUNCTION BOX IN CEILING.
- PROVIDE ONE 1" CONDUIT FROM CONTROL CONSOLE PULLBOX (T17) TO SPEAKER (T11) VIA EXISTING JUNCTION BOX IN CEILING.
- PROVIDE ONE 1" CONDUIT FROM (T09) CCTV TO CONTROL CONSOLE PULLBOX (T17) VIA EXISTING JUNCTION BOX IN CEILING.
- PROVIDE ONE 1 1/4" CONDUIT FROM MICROPHONE (T08) TO CONTROL CONSOLE PULLBOX (T17) BELOW COUNTER VIA EXISTING JUNCTION BOX IN CEILING AND ONE 1 1/4" CONDUIT FROM LIVE VIEW CAMERA (T10) TO EQUIPMENT PULLBOX (T14) BELOW COUNTER VIA EXISTING JUNCTION BOX IN CEILING.
- PROVIDE ONE 2" CONDUIT FROM OSMS CAMERA TO JUNCTION BOX IN CEILING.
- PROVIDE ONE 1" CONDUIT FROM EQUIPMENT PULLBOX (T14) BELOW COUNTER TO USB HUB (T12).
- PROVIDE ONE 3" CONDUIT FROM EQUIPMENT STAND (T01) TO CONTROL CONSOLE PULLBOX (T17) BELOW COUNTER.
- PROVIDE ONE 3" CONDUIT FROM EQUIPMENT PULLBOX (T14) BELOW COUNTER TO OPTICAL IMAGING CAMERA (T20).
- PROVIDE A 1" CONDUIT FROM THE RELAY JUNCTION BOX (T05) TO THE DOOR INTERLOCK. CONTRACTOR SHALL CONFIRM INSTALLATION LOCATION AND TOTAL PATHWAY LENGTH OF THESE CONDUITS PRIOR TO INSTALLATION OF NEW EQUIPMENT.

**NOTES BY SYMBOL: "E"**

- REMOVE EXISTING MODULATOR CABINET AND CONDUCTORS BACK TO SOURCE OF SUPPLY. CONTRACTOR SHALL REUSE EXISTING CONDUITS IN SLAB TO GREATEST EXTENT POSSIBLE.
- REMOVE EXISTING CIRCUIT BREAKER, CONDUIT AND CONDUCTORS BACK TO SOURCE OF SUPPLY.
- REMOVE EXISTING CIRCUIT BREAKER AND INTERCEPT EXISTING CONDUIT AND CONDUCTORS ABOVE CEILING AND EXTEND TO NEW POWER CONDITIONER AS DENOTED IN NOTE BY SYMBOL #8, THIS SHEET.
- EXISTING VARIAN EQUIPMENT TO BE RELOCATED. DISCONNECT EXISTING 3840, #6G, 2" CONDUIT AT EXISTING POWER CONDITIONER AND RELOCATE EXISTING DISCONNECT, AND EXTEND TO NEW LOCATION AS DENOTED WITH NOTE BY SYMBOL #8, THIS SHEET.
- LOCATION OF EXISTING VARIAN RELAY JUNCTION BOX VRLB-C3. CONTRACTOR SHALL REMOVE EXISTING ELECTRONICS AND CABLING. EXISTING CABINET AND ALL RACEWAYS SHALL REMAIN FOR NEW EQUIPMENT BEING INSTALLED IN THE SAME LOCATION.
- LOCATION OF EXISTING CONTROL CONSOLE BACKBOX. CONTRACTOR SHALL REMOVE EXISTING ELECTRONICS AND CABLING. EXISTING CABINET AND ALL RACEWAYS SHALL REMAIN FOR NEW EQUIPMENT BEING INSTALLED IN THE SAME LOCATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF EXISTING VARIAN EQUIPMENT. REFER TO DETAIL 1, SHEET E102 FOR ADDITIONAL INFORMATION REGARDING PROPOSED ROUTE TO REMOVE EXISTING EQUIPMENT FROM BUILDING.
- NEW LOCATION OF EXISTING VARIAN EQUIPMENT AND DISCONNECT SWITCH. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS.
- PROPOSED LOCATION OF 50KVA POWER CONDITIONER WITH VOLTAGE REGULATION. PROVIDE A 100 AMP, 3 POLE DISCONNECT ON PRIMARY SIDE OF CONDITIONER TO SERVE AS THE LOCAL DISCONNECTING MEANS. REFER TO DETAIL 3, THIS SHEET FOR ADDITIONAL INFORMATION.
- PROVIDE A 40A/2P CIRCUIT BREAKER IN EXISTING SPACE OF EXISTING PANEL TO MATCH EXISTING AND MAKE ALL FINAL CONNECTIONS TO CONDENSING UNIT.
- REFER TO DETAIL 4, SHEET E101 FOR MOUNTING DETAIL OF IN ROOM MONITOR (T07) EQUIPMENT.
- CONNECT E-STOP TO NEW VARIAN CONTROL SYSTEM. PROVIDE AND EXTEND EXISTING 1" CONDUIT AND CONTROL WIRING TO VARIAN RELAY JUNCTION BOX (T05) PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE 3-INCH J-HOOK CABLE SUPPORT MOUNTED UNDER CABINET AT INTERVALS NOT EXCEEDING 14" FOR UNDERCABINET SPACE. LOCATE HEIGHT OF J-HOOKS BASED UPON OWNER INPUT FOR CABLING.
- CONNECT LASER TO NEW VARIAN CONTROL SYSTEM. PROVIDE AND EXTEND EXISTING 1" CONDUIT AND CONTROL WIRING TO VARIAN RELAY JUNCTION BOX (T05) PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- NEW EQUIPMENT TO BE FURNISHED AND INSTALLED BY VARIAN. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSTALLATION OF NEW VARIAN EQUIPMENT. REFER TO DETAIL 1, SHEET E102 FOR ADDITIONAL INFORMATION REGARDING PROPOSED ROUTE TO BRING NEW EQUIPMENT INTO THE BUILDING.

**TrueBeam COMPONENT IDs**  
per 2022-389153-7-A1

ID	DESCRIPTION	STATUS
T00	ISOCENTER	
T01	STAND & GANTRY	VF/VI
T02	TREATMENT COUCH	VF/VI
T03	MODULATOR CABINET	VF/VI
T04	BASEFRAME (VARIAN OEM)	VF/VI
T05	RELAY JUNCTION BOX	VF/CI
T06	POSITIONING LASERS (OPT., QTY. 4, CHECK SO, NOTE)	VF/VI
T07	IN-ROOM MONITOR SET (DUAL SCREEN) NOTE	VF/VI
T08	PATIENT MICROPHONE, NOTE	VF/VI
T09	CCTV CAMERA (QTY. 4, CHECK SO, NOTE)	VF/VI
T10	LIVE VIEW CAMERA, NOTE	VF/VI
T11	SPEAKER (QTY. 2)	VF/CI
T12	USB HUB & SERVICE KEYBOARD	VF/VI
T13	MAIN DISCONNECT PANEL (OPT., CHECK SO) (37 1/4" X 25 1/2" X 9 1/4" D, 179 LBS.)	VF/CI
T14	CONSOLE CABINET, NOTE	VF/VI

T15	IEC 60309 OUTLET (OPT., INCLUDED W/T13)	VF/VI
T16	SYSTEM MONITORS (QTY. 2, TREAT AND IMAGE)	VF/VI
T17	CONTROL CONSOLE, KEYBOARD, & MOUSE	VF/VI
T18	CCTV MONITOR (QTY. 4, CHECK SO)	VF/VI
T20	OPTICAL IMAGING CAMERA (OPT., CHECK SO, NOTE)	VF/VI
T25	COUCH ROTATION ARCS (MIN. MANDATORY 8'-4 1/2" AND MAX. 9'-0")	N/A
T30	POWER CONDITIONER, NOTE	VF/CI

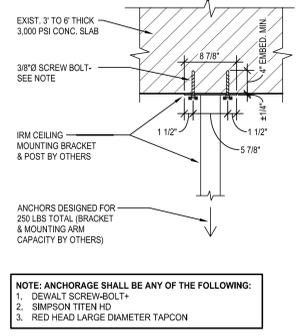
VF = Varian Furnished, CF = Contractor Furnished, VI = Varian Installed, CI = Contractor Installed

NOTE<sup>1</sup>: CONTRACTOR TO INSTALL MOUNTING HARDWARE.

NOTE<sup>2</sup>: VARIAN-DELIVERED. CONTRACTOR TO RECEIVE, MOVE/LOCATE, AND INSTALL.

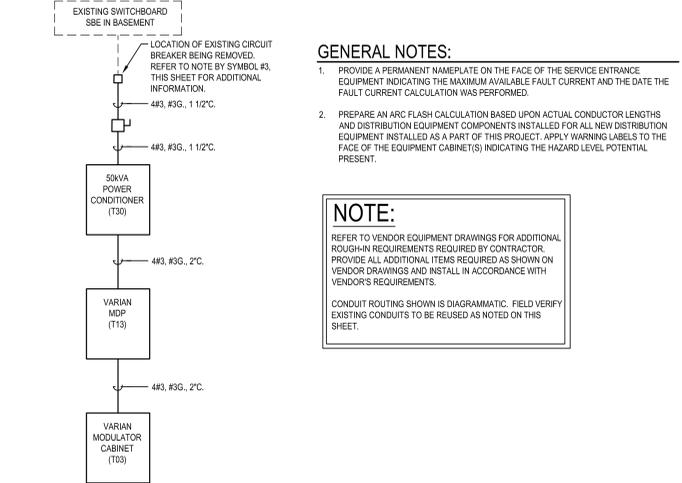
**CONTRACTOR-PROVIDED ITEMS**

CP01	CONTROL EQUIPMENT PULL BOX (CEPB), (SIZE MAY VARY, 30"W X 12"H X 9"D MIN.)	CF/CI
CP02	BASEFRAME PULL BOX (BPB), (SIZE MAY VARY, 24"W X 12"H X 24"D MAX.)	CF/CI
CP03	MODULATOR PULL BOX (MPB), (24"W X 18"L X 10"D MIN.)	CF/CI
CP04	ACCESSORY PULL BOX (APB), (SIZE MAY VARY, 24"W X 18"L X 12"D MIN.)	CF/CI
CP05	DOOR INTERLOCK SWITCHES (QTY. 2, PRIMARY 120 VAC AND SECONDARY 24 VDC)	CF/CI
CP06	WARNING LIGHTS - BEAM-ON & X-RAY ON (VERIFY ADDL. REQUIREMENTS WITH THE LOCAL REGULATORY AGENCY)	CF/CI
CP07	EMERGENCY-OFF BUTTONS (QTY. VARIES, TWO-POLE (1) NORMALLY OPEN AND (1) NORMALLY CLOSED CONTACTS, "DRY", MANUAL RESET)	CF/CI
CP08	NETWORK DATA PORT	CF/CI
CP09	GENERIC PULL BOX (SIZE MAY VARY, CUSTOMER-SIZED)	CF/CI



NOTE: ANCHORAGE SHALL BE ANY OF THE FOLLOWING:  
1. DEWALT SCREW-ANCHOR  
2. SIMPSON TITEN HD  
3. RED HEAD LARGE DIAMETER TAPCON

**4 MOUNTING DETAIL**  
SCALE: NONE



**GENERAL NOTES:**

- PROVIDE A PERMANENT NAMEPLATE ON THE FACE OF THE SERVICE ENTRANCE EQUIPMENT INDICATING THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED.
- PREPARE AN ARC FLASH CALCULATION BASED UPON ACTUAL CONDUCTOR LENGTHS AND DISTRIBUTION EQUIPMENT COMPONENTS INSTALLED FOR ALL NEW DISTRIBUTION EQUIPMENT INSTALLED AS A PART OF THIS PROJECT. APPLY WARNING LABELS TO THE FACE OF THE EQUIPMENT CABINET(S) INDICATING THE HAZARD LEVEL POTENTIAL PRESENT.

**NOTE:**

REFER TO VENDOR EQUIPMENT DRAWINGS FOR ADDITIONAL ROUGH-IN REQUIREMENTS REQUIRED BY CONTRACTOR. PROVIDE ALL ADDITIONAL ITEMS REQUIRED AS SHOWN ON VENDOR DRAWINGS AND INSTALL IN ACCORDANCE WITH VENDOR'S REQUIREMENTS.

CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. FIELD VERIFY EXISTING CONDUITS TO BE REUSED AS NOTED ON THIS SHEET.

**3 ELECTRICAL SINGLE LINE DIAGRAM**  
SCALE: NONE

**ELECTRICAL POWER PLANS**

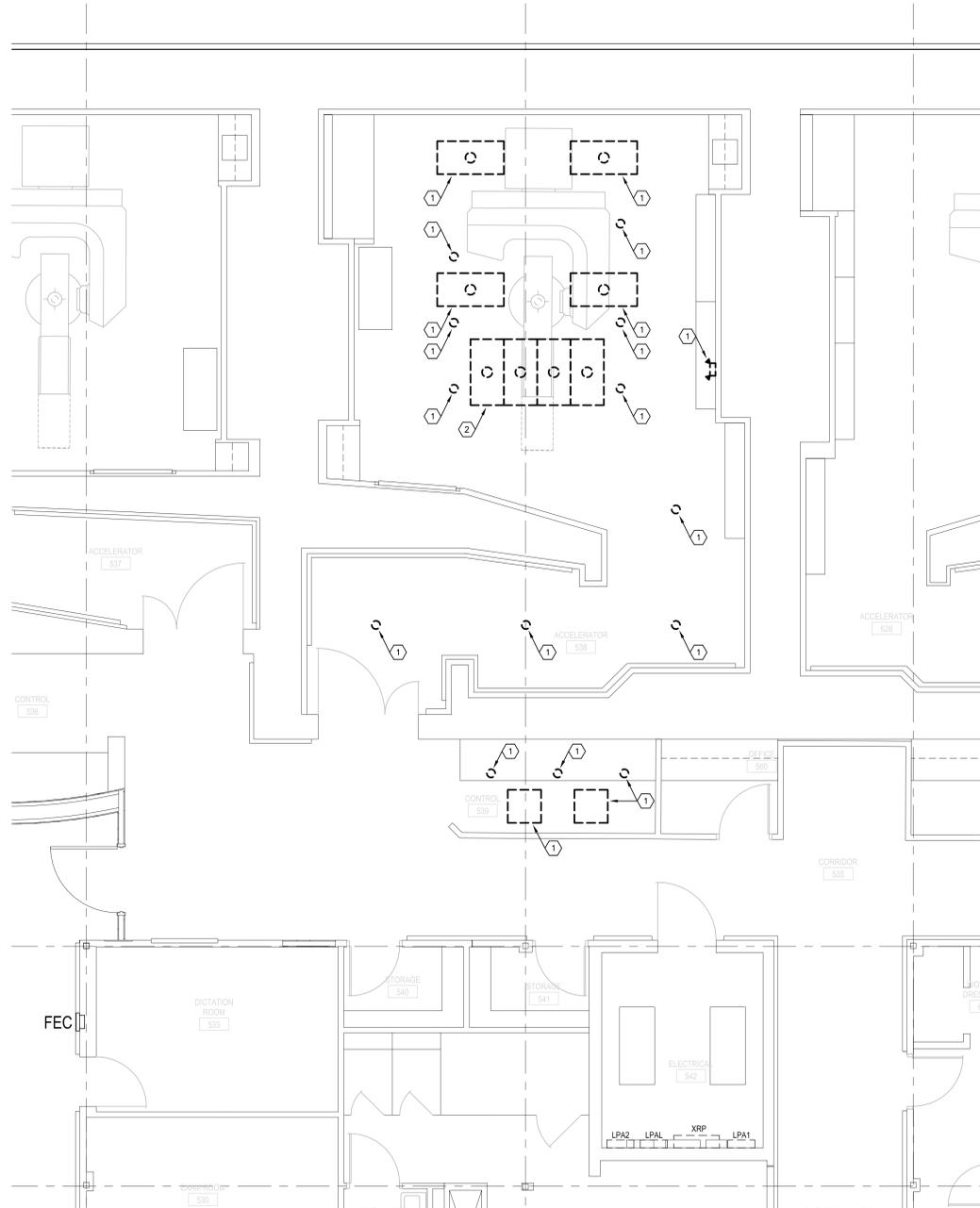
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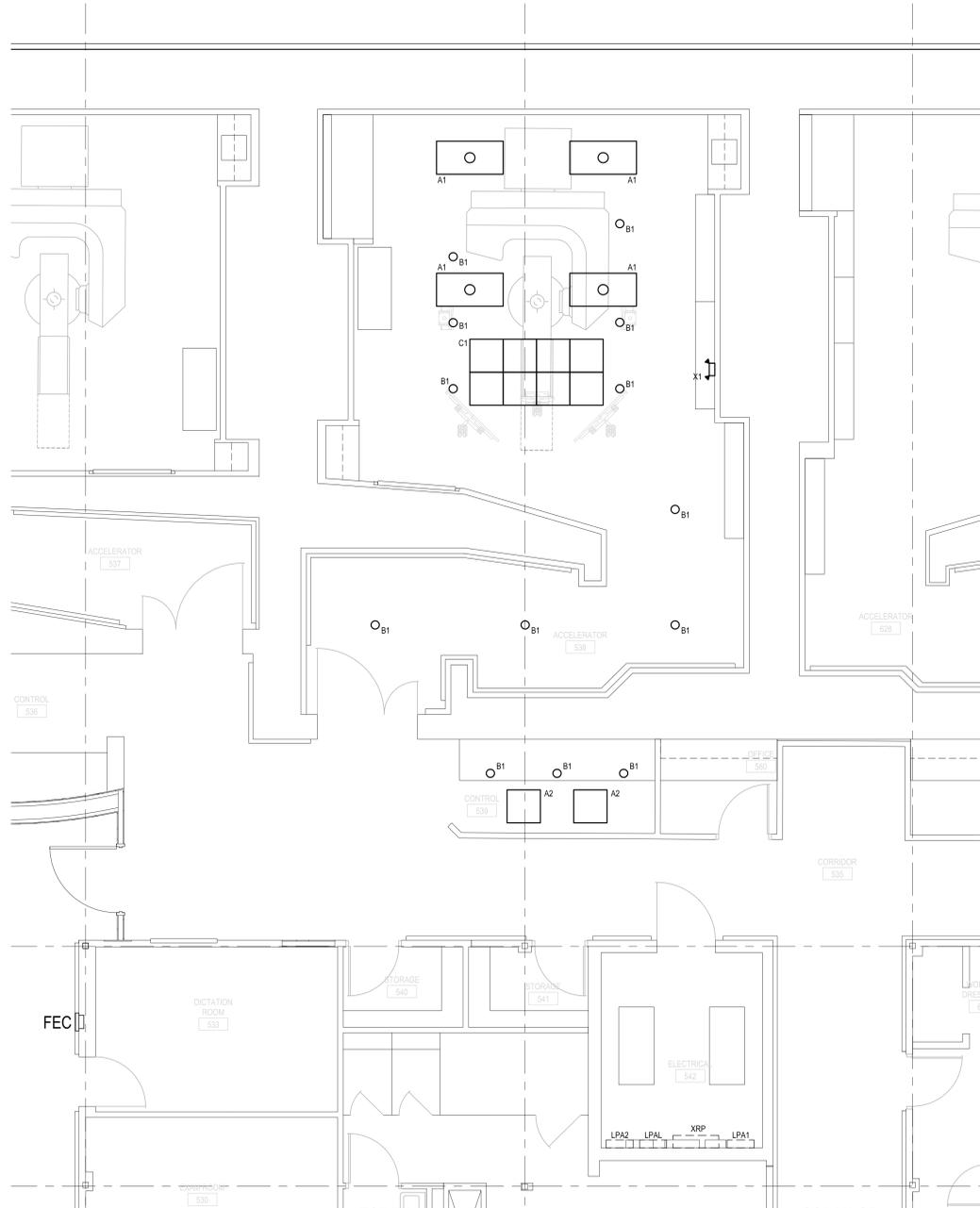
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**1 FIRST FLOOR DEMOLITION ELECTRICAL LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH



**2 FIRST FLOOR ELECTRICAL LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH

**NOTE:**  
REFER TO VENDOR EQUIPMENT DRAWINGS FOR ADDITIONAL ROUGH-IN REQUIREMENTS REQUIRED BY CONTRACTOR. PROVIDE ALL ADDITIONAL ITEMS REQUIRED AS SHOWN ON VENDOR DRAWINGS AND INSTALL IN ACCORDANCE WITH VENDOR'S REQUIREMENTS.

- SHEET NOTES:**
- NOT ALL EXISTING ELECTRICAL DEVICES MAY BE SHOWN. EXISTING DEVICES SHOWN ARE PLACED AND LABELED BASED UPON EXISTING SITE CONDITIONS. CONTRACTOR TO VERIFY ALL EXISTING CIRCUIT AND CONDUITS NOTED ON PLAN.
  - MAINTAIN EXISTING CIRCUITS AS REQUIRED FOR DEVICES TO REMAIN.
  - REFER TO MANUFACTURER'S DRAWINGS FOR REQUIREMENTS TO INSTALL CABLING AND ADDITIONAL MOUNTING HARDWARE FOR EQUIPMENT FURNISHED AND INSTALLED BY OTHERS.
  - EXISTING CONDUITS SHOWN IN ACCELERATOR ROOM 538 ARE DIAGRAMMATIC. FIELD CONFIRM EXACT ROUTING. NOTIFY MANUFACTURER FOR CONDUIT LENGTHS EXCEEDING 75 LF.

- NOTES BY SYMBOL:** "⊙"
- REPLACE EXISTING LIGHT FIXTURE WITH NEW LED LIGHT FIXTURE AS SCHEDULED IN DETAIL 2, THIS SHEET. CONTRACTOR SHALL RECONNECT NEW FIXTURE TO EXISTING LIGHTING CIRCUIT AND CONTROLS THRU VARIAN RELAY CABINET. REFER TO VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.
  - REPLACE EXISTING FOUR "2X4" LIGHT FIXTURES WITH EIGHT "2X2" LED LIGHT FIXTURE AS SCHEDULED IN DETAIL 2, THIS SHEET. CONTRACTOR SHALL RECONNECT NEW FIXTURE TO EXISTING LIGHTING CIRCUIT AND CONTROLS THRU VARIAN RELAY CABINET. REFER TO VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.

JPS HEALTH NETWORK  
JPS RadOnc LINAC REPLACEMENT

1450 8TH AVENUE FORT WORTH, TEXAS 76104

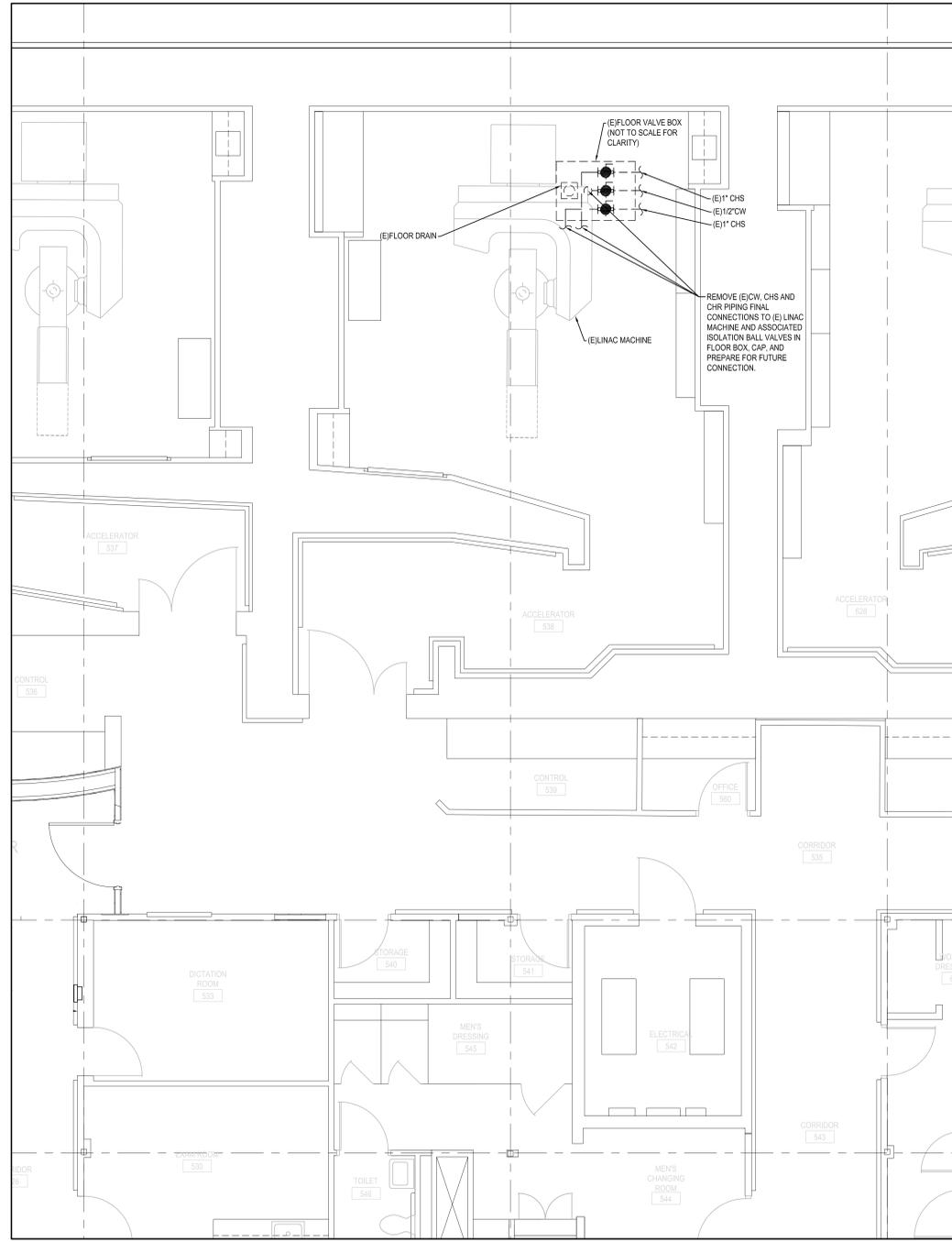
ELECTRICAL LIGHTING PLANS

NO.	DESCRIPTION	DATE

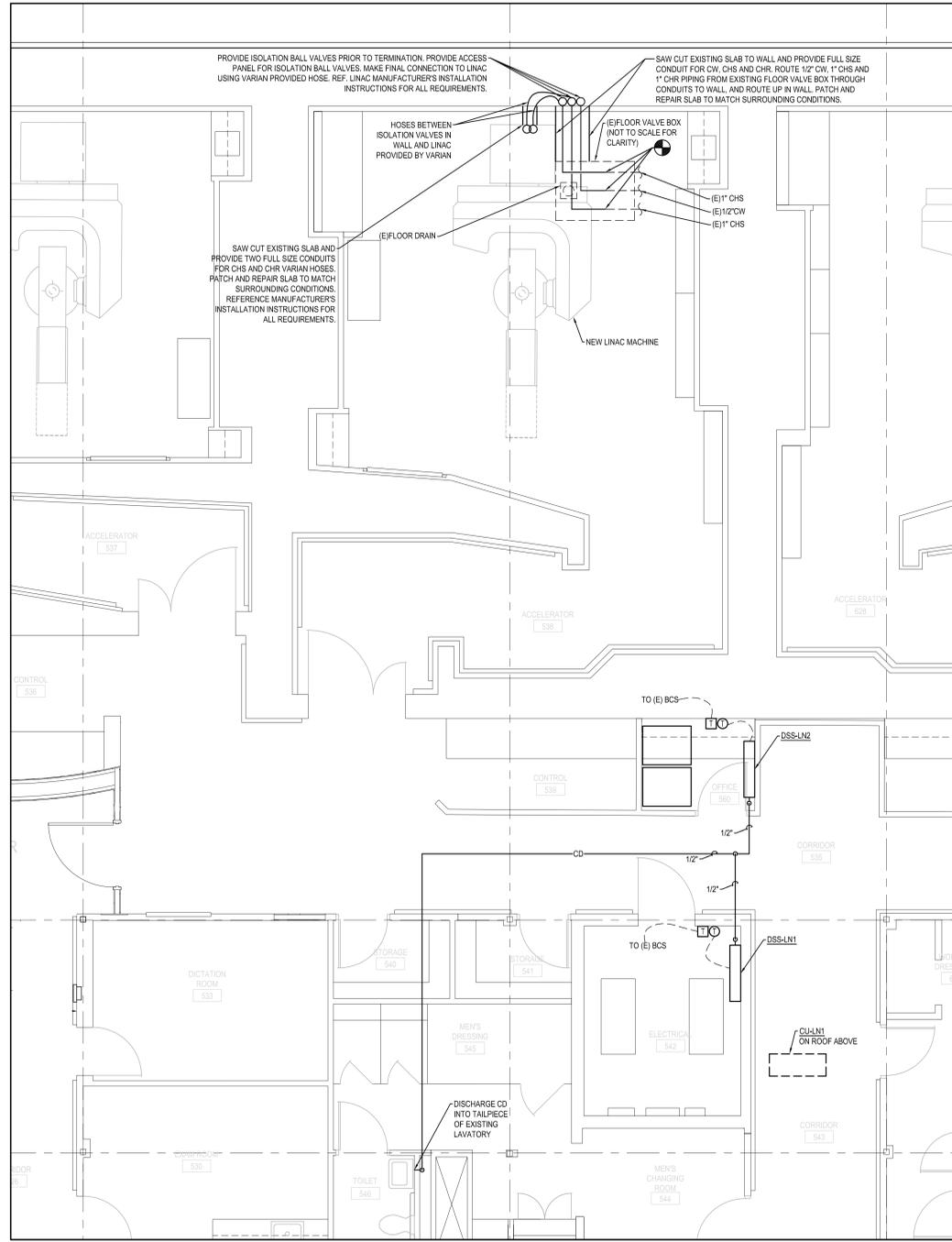


PROJECT NUMBER: 2025.042.002  
DATE: 09/09/2025 DRAWN BY: BHB  
DESIGN BY: BHB CHECKED BY: BHB

SHEET  
**E2.01**  
1 of 4 E SHEETS



**1 FIRST FLOOR DEMOLITION MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH



**1 FIRST FLOOR MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH

HVAC LEGEND	
---	EXISTING TO REMAIN
////	ITEM TO BE REMOVED
⊙	THERMOSTAT (MOUNT 4'-0" ABOVE FLOOR)
⊠	TEMPERATURE SENSOR (MOUNT 4'-0" ABOVE FLOOR)
⊕	CONNECT TO EXISTING
— CW —	CHILLED WATER SUPPLY
— CHR —	CHILLED WATER RETURN
— CD —	CONDENSATE DRAIN
(E)	EXISTING

PLUMBING LEGEND	
—	COLD WATER
— CD —	CONDENSATE DRAIN
⊕	BALL VALVE
⊠	CAP END OF LINE
⬇	RISER DOWN
⬆	RISER UP
⊕	FLOOR DRAIN
⊕	NEW TO EXISTING CONNECTION
CO	CLEANOUT
AFF	ABOVE FINISHED FLOOR
IE	INVERT ELEVATION
(E)	EXISTING

**PLUMBING GENERAL NOTES:**

- FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE COMPLETE AND OPERABLE PLUMBING SYSTEMS WITH ALL ITEMS AND APPURTENANCES NECESSARY, EVEN THOUGH NOT SPECIFICALLY CALLED OUT.
- ALL WORK AND/OR MATERIAL SHALL BE INSTALLED BY A LICENSED CONTRACTOR.
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO THE OWNER.
- CROSS-CONNECTIONS OF ANY FIXTURE, DEVICE OR CONSTRUCTION WHICH WILL PERMIT BACKFLOW CONNECTIONS BETWEEN A WATER DISTRIBUTION SYSTEM AND ANY PART OF THE DRAINAGE SYSTEM SHALL NOT BE INSTALLED.
- CONFIRM ROUGH-IN REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
- COORDINATE EXACT ROUTING OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF WORK.
- PROVIDE FACTORY MANUFACTURED WATER HAMMER ARRESTORS WHERE REQUIRED AND/OR INDICATED ON THE DRAWINGS.
- ALL WATER PIPING PASSING THROUGH CONCRETE FLOOR SLABS SHALL BE COMPLETELY ISOLATED FROM THE CONCRETE BY ENCASUREMENT IN 1/2" THICK FLEXIBLE FOAM PLASTIC INSULATION FROM WELL BELOW THE BOTTOM OF THE CONCRETE SLAB UP TO TWO INCHES ABOVE THE BEAMS BELOW GRADE. IT SHALL BE WRAPPED WITH 2 PLYS OF 15# FELT TO ISOLATE THE PIPE FROM THE CONCRETE. WHERE WATER PIPE EXTENDS THROUGH CONCRETE GRADE BEAMS BELOW GRADE, IT SHALL BE ENCASED IN 3" THICK FLEXIBLE FOAM PLASTIC INSULATION. PIPING BELOW SLAB SHALL BE TYPE "M" SOFT TEMPER COPPER WITHOUT JOINTS.
- ALL EXPOSED PIPING PASSING THROUGH FLOORS, CEILINGS OR WALLS SHALL BE PROVIDED WITH APPROVED PLATES OF SUFFICIENT DIAMETER TO COVER THE SLEEVE OPENING AND FIT SNUGLY AROUND THE PIPE.
- THIS CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR HIS EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS SPACED NOT MORE THAN 10 FEET APART FOR

- DO NOT INSTALL PVC PIPING IN ANY RETURN AIR PLENUMS.
- CONDENSATE DRAINING FOR AIR CONDITIONING UNITS SHALL BE PROVIDED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS ACTIVITIES WITH ALL OTHER TRADES SO THAT ALL SYSTEMS ARE COMPLETE.
- ALL NEW DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS. INSULATE ALL DOMESTIC WATER PIPING WITHIN THE BUILDING AND OUTSIDE THE BUILDING THERMAL INSULATION ENVELOPE WITH FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. INSULATION SHALL BE 1" THICK FOR NOMINAL PIPE SIZES UP TO 1-1/4" AND 1-1/2" THICK FOR ALL PIPE SIZES 1-1/2" AND GREATER.
- ALL CONDENSATE DRAIN PIPING SHALL BE TYPE "M" COPPER DRAINAGE TUBE AND FITTINGS WITH LEAD FREE SOLDER JOINTS. PIPING INSIDE BUILDING SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS PIPE INSULATION WITH UNIVERSAL JACKET.

**HVAC GENERAL NOTES:**

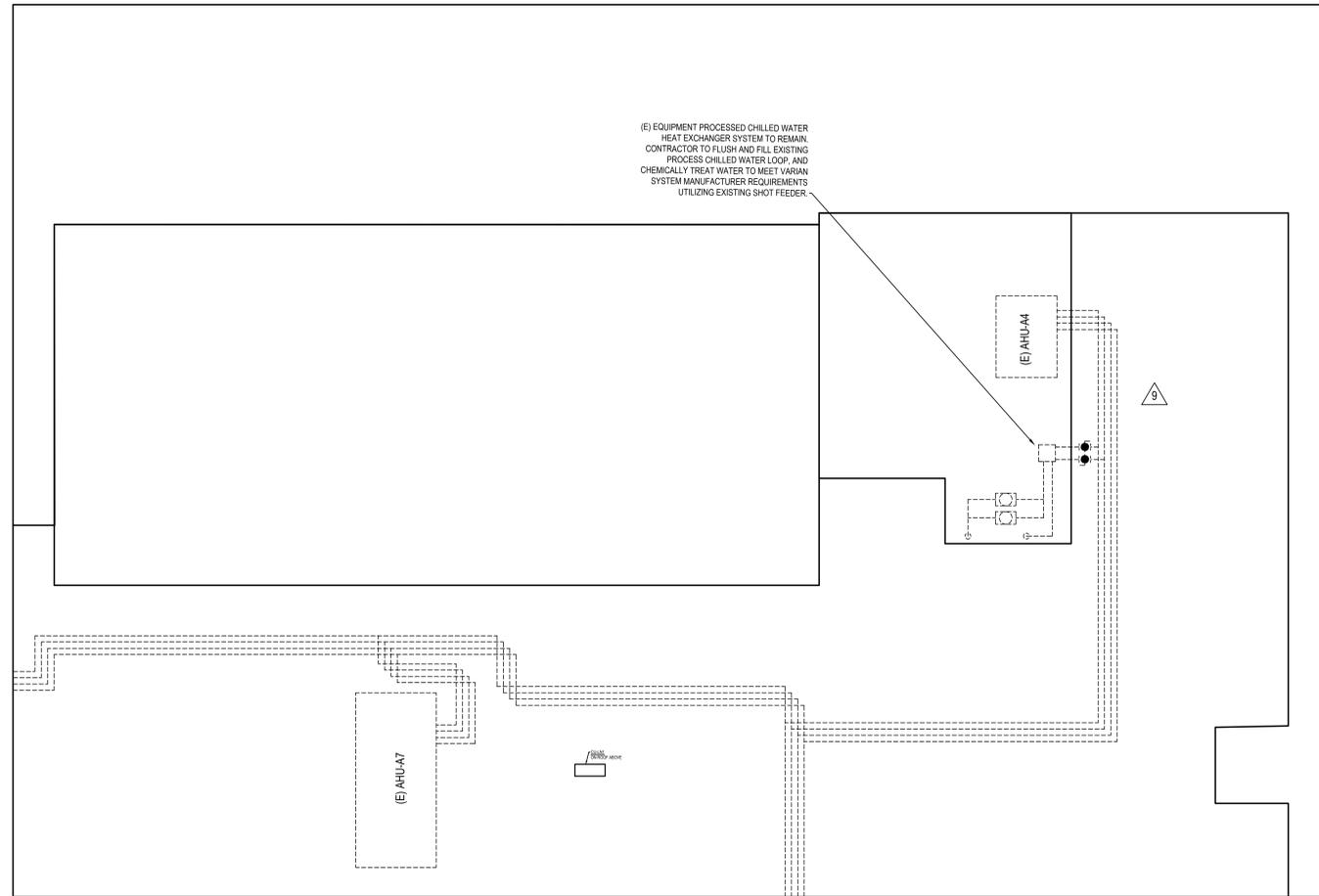
- FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE COMPLETE AND OPERABLE HVAC SYSTEMS WITH ALL ITEMS AND APPURTENANCES NECESSARY EVEN THOUGH NOT SPECIFICALLY IDENTIFIED.
- ALL WORK AND/OR MATERIALS SHALL BE INSTALLED BY A LICENSED CONTRACTOR AND SHALL CONFORM TO ALL APPLICABLE NATIONAL AND LOCAL BUILDING AND MECHANICAL CODES.
- COORDINATE EXACT ROUTING OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF WORK.
- MOUNT ALL THERMOSTATS AND TEMPERATURE SENSORS 4'-0" ABOVE FLOOR (TYPICAL).
- SUPPORT ALL ROOF MOUNTED CONDENSING UNITS WITH METAL CAPED ROOF CURBS PER FIGURE 4-18D, SMACNA ARCHITECTURAL SHEET METAL MANUAL 5TH EDITION.
- THERMOSTATS ARE PROVIDED FOR CONTROL OF THE DUCTLESS SPLIT INDOOR UNITS. TEMPERATURE SENSORS ARE PROVIDED FOR REMOTE SPACE TEMPERATURE MONITORING TO ENSURE DUCTLESS SPLIT IS OPERATIONAL. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SERVICES TO EXTEND THE EXISTING LOWVOLTAGE TRANE TRACER BUILDING CONTROL SYSTEM TO THE TEMPERATURE SENSORS AS INDICATED.

**DUCTLESS HEAT PUMP SPLIT SYSTEM SCHEDULE**

INDOOR UNIT NUMBER	DSS-LN1/DSS-LN2
TYPE	WALL MOUNTED
VOLTS / PHASE	208/1
COOLING CAPACITY (PER UNIT)	24,000 BTU/h
MANUFACTURER	LG
MODEL NUMBER	KNMAB241A
OUTDOOR UNIT NUMBER	CU-LN1
SEER2	20.5
COOLING CAPACITY	48,000 BTU/h
HEATING CAPACITY	52,000 BTU/h
HEATING HSPF2	10.5
VOLTS / PHASE	208/1
MCA	33
MOCP	40
MANUFACTURER	LG
MODEL NUMBER	KUMXA481A

- NOTES:**
- PROVIDE INTEGRAL CONDENSATE PUMP FOR EACH INDOOR WALL MOUNTED UNIT EQUAL TO A ASPEN MINI AQUA.
  - PROVIDE LOW VOLTAGE WIRE FROM CONDENSING UNITS TO RESPECTIVE INDOOR UNITS.
  - CONFIRM FINISH OF INDOOR UNIT WITH THE ARCHITECT BEFORE ORDERING.
  - PROVIDE WITH MANUFACTURER'S OPTIONAL WIRED THERMOSTAT.

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

**COMcheck Software Version COMcheckWeb**  
**Mechanical Compliance Certificate**

**Project Information**

Energy Code: 2015 IECC  
Project Title: JPS RadOnc  
Location: Fort Worth, Texas  
Climate Zone: 3a  
Project Type: Alteration

Construction Site: 1450 8th Avenue - JPS RadOnc  
LNCA Replacement  
Fort Worth, Texas 76104

Owner/Agent: Jordan Love  
Texas

Designer/Contractor: Jordan Love  
Baird, Hampton and Brown  
6300 Ridgely Place, Suite 700  
FORT WORTH, Texas 76126  
6822919421  
jlove@bhbc.com

**Mechanical Systems List**

**Quantity System Type & Description**

- CU-LN1 (Unknown):  
VRF Condensing Unit, Air Cooled Heat Pump  
Heating Mode: Capacity = 52 kBtu/h  
No minimum efficiency requirement applies  
Cooling Mode: Capacity = 48 kBtu/h  
No minimum efficiency requirement applies  
Fan System: None
- D55-LN1/LN2 (Single Zone):  
Cooling: 2 each - VRF Zone Fan Unit, Capacity = 24 kBtu/h, Unknown Economizer  
No minimum efficiency requirement applies  
Fan System: FAN SYSTEM 1 - Compliance (Motor nameplate HP and fan efficiency method) : Passes  
Fans:  
FAN 1 Supply, Constant Volume, 452 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency, fan exception: Single fan <= SHP

**Mechanical Compliance Statement**

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jordan Love, EIT, CPDT  
Name - Title Signature Date 09/09/2025

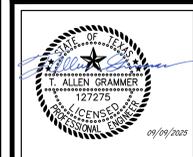
Project Title: Data filename: Report date: 09/09/25 Page 4 of 11

**BHB**  
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engineering and surveying  
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JPS HEALTH NETWORK  
JPS RadOnc LINAC REPLACEMENT  
1450 8TH AVENUE FORT WORTH, TEXAS 76104

**MECHANICAL ROOF PLAN**

NO.	DESCRIPTION	DATE



PROJECT NUMBER: 2025.042.002  
DATE: 09/09/2025 DRAWN BY: BHB  
DESIGN BY: BHB CHECKED BY: BHB

SHEET  
**MP1.02**  
2 of 2 MP SHEETS

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