August 23, 2024

ADDENDUM #2

TO CONTRACT DOCUMENTS FOR: Project #CP245321 – Patient Care Tower – T1230 MRI Room

ADVERTISEMENT DATE: July 25, 2024

PREPARED FOR: The Curators of the University of Missouri

CONSULTANT: Planning, Design & Construction

University of Missouri

130 General Services Building

(573) 882-6800

The contract documents for the above noted project and the work covered thereby and herein modified.

GENERAL INFORMATION:

1) As discussed in the Pre-Bid Meeting on August 14, 2024, attached is a copy of the cut sheet for the OFCI chiller being provided for the MRI.

PROJECT MANUAL:

- 1) Section 09 6500 Resilient Flooring
 - a. Paragraph 2.01, A. **REVISE** Paragraph heading to read Heterogeneous Vinyl Sheet (SV-1/SV-3/SV-4); remainder of paragraph to remain unchanged.
 - b. Paragraph 2.01, A, 8. **MODIFY** sentence to read; minimum of three (3) colors.
 - c. Paragraph 2.01, C., **MODIFY** paragraph heading to read; Vinyl Welding Rod (Flooring Type SV-1/SV-2/SV-3/SV-4); remainder of paragraph to remain unchanged.
 - d. Paragraph 2.03, H., 1. **DELETE** paragraph 1.
 - e. Paragraph 2.03, H., 2. **REVISE** Sealer for Concrete Slab Surfaces to be the same as Ardex's "Ardex MC Rapid" in lieu of specified product which is no longer in production.

DRAWINGS:

Architectural

- 1) AD2.1 First Floor Demolition Plan & Notes
 - a. Plan 17 First Floor Demolition Plan, **REVISE** scope of casework removal and salvage to show portion of casework at north wall of existing Vestibule / Staging area to remain, per attached drawing. **ADD** section of casework and note for casework to be salvaged at east wall of existing Control Room. **ADD** note and scope for removal of drywall along east wall of existing Vestibule / Staging area for installation of new metal backing.
 - b. **MODIFIED** Keyed Notes 10, 11, 12, and 41 as per the attached drawings.

- 2) A2.1 First Floor New Work Floor Plan & Notes
 - a. Plan 25 First Floor Plan New Work, ADDED metal stud partition chase at north of Family Dressing / Corridor Zone 2. REMOVED casework at north and east walls of Corridor Zone 2. ADDED scope and keyed note (9.9) calling for installation of metal backing in existing east wall of Corridor Zone 2.
 - b. **MODIFIED** Keyed Notes 3.1, 4.1, 6.17, 10.10 and 11.9 as per the attached drawing.
- 3) A5.1 Schedules & Partition Types & Details
 - Room Finish Schedule MODIFIED finish callouts in Equipment Room 1237 and MRI Exam Room 1238.
 - b. Room Finish Schedule **ADDED** Room Finish Schedule Note #4 and #5 and keyed to Equipment Room 1237 and MRI Exam Room 1238.
 - c. Room Finish Schedule CLARIFIED Room Finish Schedule notes in Schedule.
 - d. Color and Material Schedule MODIFIED Description for SV-3 / SV-4.
- 4) A5.3 Finish Floor Plan
 - a. Finish Floor Plan 25/A5.3 **ADDED** additional notes to finish floor plan.
 - b. Color and Material Schedule **MODIFIED** Description for SV-3 / SV-4.
- 5) A8.1 Interior Elevations
 - **a. MODIFIED** Elevations 3 & 27 to reflect scope outlined in changes to Sheet A2.1 above.

END OF ADDENDUM #2



WO2-2-5000-2P-NF-L-M-407c Spec Submittal



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Overview:

WO2-2-5000-2P-NF-L-407C-M (60kW)		
For Use With:	Siemens Aera XQ, Prisma, Vida XQ, Skyra MRs	
Standard Chiller		
Siemens Part Number:	DTSWO2250MR60	
Function:	Support medical functions by maintaining process fluid with tight temperature and flow tolerances while meeting the varying heat loads of critical imaging systems.	
Features:	 Dual refrigeration circuits and redundant compressors for varying capacity control Redundant fluid pumps to provide backup in case of a motor failure Open atmosphere system allows maintenance without interrupting patient care 	
	Coastal Chiller	
Siemens Part Number	DTSWO2250MR60C	
Function:	Protects chiller installed less than 30 miles from salt water coast	
Features:	 All "Standard" chiller features plus: Stainless steel cabinet upgrade E-Coated condenser coil 	
	Low Ambient Chiller	
Siemens Part Number:	DTSWO2250MR60L	
Function:	Allow chiller operation in ambient ranges of -40°F to 122°F	
Features:	 All "Standard" chiller features plus: Refrigeration heat tape Additional heater in electrical cabinet Heater added to fluid reservoir 	

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General Specifications

WO2-2-5000			
	Units	Original	New
Width:	IN/CM	138/351	134.5/341.6
Height:	IN/CM	84.5/215	87.7/222.8
Depth:	IN/CM	44/112	44/112
Dry weight:	LB/KG	3500/1587.57	3500/1587.57
Operational weight:	LB/KG	4300/1950.45	4300/1950.45
Max. ambient temperature:	°F/°C	122/50	122/50
Min. ambient temperature:	°F/°C	-20/-28.89 -40/-40 (Low Ambient Model)	-20/-28.89 -40/-40 (Low Ambient Model)
Condenser air flow approx.:	CFM	18,000	18,000
Fluid tank capacity:	GAL/LTR	100/378.54	80/302.83
Coolant connections:	NPTF	2.0"	2.0"

Fluid Specifications

Coolant:	N/A	Water/glycol 50/50
Coolant outlet temperature:	°F/°C	48/8.9
Coolant temperature accuracy:	°F/°C	±3/±1.7
Coolant flow:	GPM/LPM	26+/-2 / 100+/-10
Max coolant pressure:	PSI/BAR	70/4.83

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Refrigeration Specifications

Net cooling capacity:	BTU/kW	204,720/60
Refrigerant:	N/A	R407C
Refrigerant Charge:	LB/KG	58/26.31

Electrical Specifications (460/3/60)

	Original	New
FLA	67A	61A
MOP	80A	70A
MCA	70A	64A
Main Power Protection	80A (Fuse)	70A (Circuit Breaker)
Compressor FLA	10.4A	10.4A
Compressor LRA	72A	72A
Pump FLA	6.6A	7.0A
Fan FLA	1.2A	1.6A
Control Voltage	24VAC	24VDC
SCCR	5kA	5kA
Note:	For 208v or 230v, please consult the manufacturer for specifications!	

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Standard Componentry Details

	<u>, </u>	1
	Original	New
Cabinet	Galvanized, NEMA 4 electrical enclosure, site glass/fill tube	
Circuits	Dual Refrigeration Circuit, Dual Fluid Circuit	
Compressor(s)	Four, 5hp Hermetic Scroll	
Condenser(s)	Two, oversized, air-cooled, with vertical air discharge and cleanable air filters	
Evaporator(s)	Two, Copper-brazed, 316 Stainless Steel	Single Copper-brazed, 316 Stainless Steel
Fan(s)	Four, 0.5hp TEFC	Two, 1.15kW (1.5hp)
Pump(s)	Two, 5hp, non-ferrous, vertical centrifugal	Two, 5.5hp non-ferrous, horizontal centrifugal
Controller	Carel PCO5 controller	,
Certifications	Compliant with UL1995 standards; OSHPD, CE, and CSA available as options	
Also available upon request:	Coastal, Seismic, Low Ambient, Remote condenser	

Add-Ons/Options

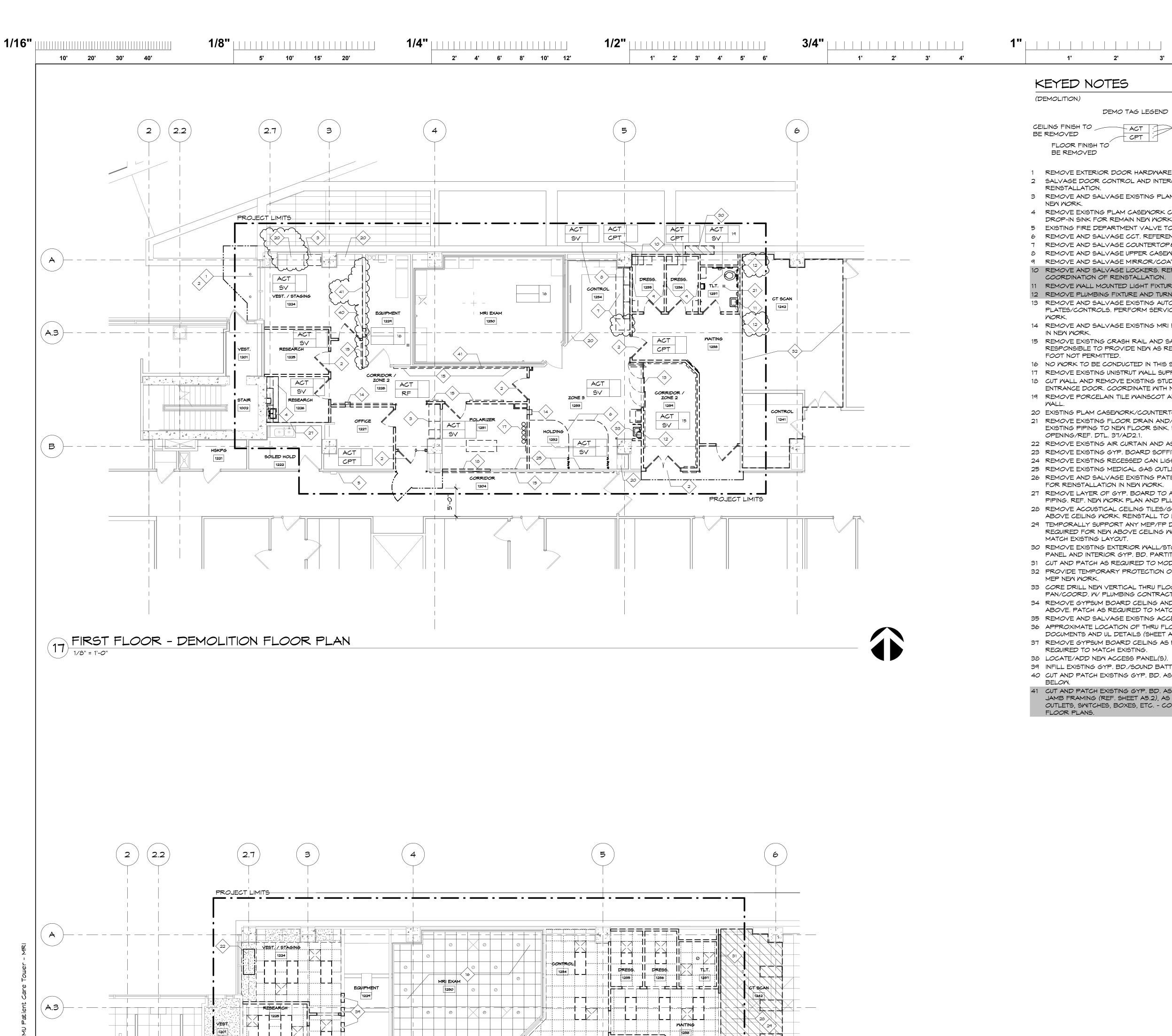
Filter Flow Meter Kit	Kit that provides filtration and 0-50GPM flow meter on inline piping. Installed indoors between chiller and MR equipment.
Isolation Springs	Set of vibration isolation springs. Recommended to be used when installing a chiller on a roof top. Helps eliminate vibration through the rooftop.
City Water Bypass Panel	Panel that allows switchover to city water backup in case of chiller failure. Multiple types available. Consult DTS for details.
Long Distance Remote Kit	Increases distance remote display can be ran from chiller to MR control room from 150' up to 400'
BMS Card	Card that allows chiller to tie into customer BMS system. Various types available. Consult DTS for details.

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Booster Pump	In-line pump that allows chiller to provide adequate flow to process for systems that exceed standard pipe allowances.
Glycol	Propylene or Ethylene available at various concentrations in 55 gallon drums or 5 gallon pails.

Version	Revision Date	Description of Change	Changes Made By (Name & Title):
001	02/15/2017	Creation of document	Kyle Hastings, Medical Service Manager
002	07/13/2021	Add specs for updated design	Ben Post, Project Engineer

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Phone: 800.968.5665 or 269.349.6800 Fax: 269.349.8951





(DEMOLITION)

DEMO TAG LEGEND

CEILING FINISH TO ACT KEYED NOTES BE REMOVED ASSOCIATED MITH SPACE FLOOR FINISH TO BE REMOVED

- REMOVE EXTERIOR DOOR HARDWARE AND TURN OVER TO THE OWNER. 2 SALVAGE DOOR CONTROL AND INTERCOM. TURN OVER TO OWNER FOR
- REINSTALLATION. 3 REMOVE AND SALVAGE EXISTING PLAM CASEMORK FOR POSSIBLE REINSTALLATION IN NEW WORK.

#

1 1/2" | | | | | | | |

- 4 REMOVE EXISTING PLAM CASEMORK COUNTERTOP IN ITS ENTRETY. SALVAGE ST. STL. DROP-IN SINK FOR REMAIN NEW WORK.
- 5 EXISTING FIRE DEPARTMENT VALVE TO REMAIN. 6 REMOVE AND SALVAGE CCT. REFERENCE NEW MORK
- REMOVE AND SALVAGE COUNTERTOP & BRACKETS FOR REINSTALLATION. 8 REMOVE AND SALVAGE UPPER CASEMORK FOR REINSTALLATION.
- REMOVE AND SALVAGE MIRROR/COAT HOOK(S) FOR REINSTALLATION. REMOVE AND SALVAGE LOCKERS. REFERENCE NEW WORK AND PHASING PLANS FOR COORDINATION OF REINSTALLATION.
- REMOVE WALL MOUNTED LIGHT FIXTURE. REFERENCE NEW WORK. 12 REMOVE PLUMBING FIXTURE AND TURN OVER TO THE HOSPITAL. 13 REMOVE AND SALVAGE EXISTING AUTO DOORS AND ASSOCIATED PUSH
- PLATES/CONTROLS. PERFORM SERVICE ON DOOR UNIT AND REINSTALL. REFERENCE NEW
- 14 REMOVE AND SALVAGE EXISTING MRI FIRE EXTINGUISHER CABINET FOR REINSTALLATION 15 REMOVE EXISTING CRASH RAIL AND SALVAGE FOR REUSE IN NEW WORK. CONTRACTOR RESPONSIBLE TO PROVIDE NEW AS REQUIRED, CUTTING IN LENGTHS SHORTER THAN 3
- FOOT NOT PERMITTED 16 NO WORK TO BE CONDUCTED IN THIS SPACE.
- 17 REMOVE EXISTING UNISTRUT WALL SUPPORT BRACKETS AND ASSOCIATED RESTRAINTS. 18 CUT WALL AND REMOVE EXISTING STUDS/DRY WALL TO CREATE OPENING FOR NEW ENTRANCE DOOR. COORDINATE WITH NEW WORK.
- 19 REMOVE PORCELAIN TILE WAINSCOT AT PERIMETER WALLS/FULL HEIGHT AT PLUMBING
- 21 REMOVE EXISTING FLOOR DRAIN AND/OR CLEANOUT. COORDINATE REROUTING OF EXISTING PIPING TO NEW FLOOR SINK. REFERENCE NEW WORK. INFILL FLOOR
- OPENING/REF. DTL. 37/AD2.1. 22 REMOVE EXISTING AIR CURTAIN AND ASSOCIATED PIPING SUPPORTS.

20 EXISTING PLAM CASEMORK/COUNTERTOP TO REMAIN, PROTECT.

- 23 REMOVE EXISTING GYP. BOARD SOFFIT AND ASSOCIATED FRAMING. 24 REMOVE EXISTING RECESSED CAN LIGHT FIXTURE.
- 25 REMOVE EXISTING MEDICAL GAS OUTLETS. 26 REMOVE AND SALVAGE EXISTING PATIENT LIFT AND ASSOCIATED STRUCTURAL SUPPORT
- FOR REINSTALLATION IN NEW WORK. 27 REMOVE LAYER OF GYP. BOARD TO ALLOW FOR INSTALLATION OF NEW PLUMBING
- PIPING. REF. NEW WORK PLAN AND PLUMBING DRAWINGS. 28 REMOVE ACOUSTICAL CEILING TILES/GRID OUTSIDE PROJECT LIMITS AS REQUIRED FOR
- ABOVE CEILING WORK. REINSTALL TO LIKE-NEW CONDITION AT COMPLETION OF WORK. 29 TEMPORALLY SUPPORT ANY MEP/FP DEVICES, FIXTURES OUTSIDE PROJECT LIMITS AS
- REQUIRED FOR NEW ABOVE CEILING WORK. REINSTALL TO LIKE-NEW CONDITION TO MATCH EXISTING LAYOUT. 30 REMOVE EXISTING EXTERIOR WALL/STONE WALL PANEL MODULE, BACK INSULATION
- PANEL AND INTERIOR GYP. BD. PARTITION. REF. SHEET A4.1 FOR DETAILS. 31 CUT AND PATCH AS REQUIRED TO MODIFY EXISTING DUCTWORK AND MEP SYSTEM
- 32 PROVIDE TEMPORARY PROTECTION OF EQUIPMENT AND FINISHES FOR INSTALLATION OF
- 33 CORE DRILL NEW VERTICAL THRU FLOOR WASTE TIGHT TO CORNER OF CONCRETE PAN/COORD. W/ PLUMBING CONTRACTOR.
- 34 REMOVE GYPSUM BOARD CEILING AND INSULATION AS REQUIRED FOR PLUMBING WORK ABOVE. PATCH AS REQUIRED TO MATCH EXISTING.
- 35 REMOVE AND SALVAGE EXISTING ACCESS PANEL FOR USE IN NEW WORK. FY LOCATION. 36 APPROXIMATE LOCATION OF THRU FLOOR PENETRATION. COORDINATE W/ MEPFP
- DOCUMENTS AND UL DETAILS (SHEET AO.6).
- 37 REMOVE GYPSUM BOARD CEILING AS REQUIRED FOR MEPFP WORK ABOVE. PATCH AS REQUIRED TO MATCH EXISTING. 38 LOCATE/ADD NEW ACCESS PANEL(S).
- 39 INFILL EXISTING GYP. BD./SOUND BATT OPENING/ COORD. WITH MEP WORK.
- 40 CUT AND PATCH EXISTING GYP. BD. AS REQUIRED TO INSTALL NEW CONDUIT RISER FROM
- 41 CUT AND PATCH EXISTING GYP. BD. AS REQUIRED FOR INSTALLATION OF NEW DOOR JAMB FRAMING (REF. SHEET A5.2), AS WELL AS NEW MTL. BACKING, ELECTRICAL OUTLETS, SMITCHES, BOXES, ETC. - COORDINATE W/ ELECTRICAL DWGS AND NEW WORK

VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND REPORT TO THE ARCHITECT ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF WORK BEFORE

- UNDERSIDE OF CONCRETE RIB IS 11'-7". ALL WORK AND MATERIALS TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE BUILDING CODES AND ALL AUTHORITIES HAVING JURISDICTION. REF. SHEET AO.3. FOR LISTING OF CODES FOR THIS
- CONTRACTOR TO PATCH ALL WALLS, OPENINGS, CEILINGS, AND ASSOCIATED FINISHES WHERE NEW
- AND FURNISHINGS THAT REMAIN. REPAIR OF ANY MATERIALS AS A RESULT OF DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE SHALL BE REPLACED WITH LIKE TRAYS AND 90%
- PLANT COVERAGE. COORDINATE REMOVAL OF EXISTING EQUIPMENT AND FURNISHINGS WITH OWNER. PRIOR TO DEMOLITION, VERIFY WITH OWNER ALL ITEMS THAT ARE TO BE SALVAGED FOR THE OWNER.
- REMOVE AND SALVAGE ALL EXISTING FIRE ALARM DEVICES AND TURN OVER TO FIRE ALARM

REINSTALLATION

- REMOVE AND SALVAGE ALL NURSE DEVICES AND
- 10. PROVIDE NEGATIVE PRESSURE EXHAUST IN ALL CONSTRUCTION AREAS.
- REMOVED BY THE OWNER. ITEMS THAT ARE DASHED ON THE DEMOLITION PLAN
- SHALL BE DISPOSED OF PROPERLY.
- DEFINED PROJECT LIMITS, BUT ON THE BUILDING WHERE DEMOLITION AND CONSTRUCTION ACTIVITY CREATES AIRBORNE DUST AND DIRT.
- CONSTRUCTION OF THIS PROJECT. COORDINATE TEMPORARY PARTITIONS WITH PROJECT PHASING AND EH&S/INFECTION PREVENTION DEPARTMENTS.
- GYPSUM BOARD AND METAL STUDS, U.O.N. WHERE FLOOR FINISHES ARE TO BE REMOVED. PREP
- PARTITION/DOOR DETAILING.
- BRACING WIRES AND SUPPORTED ELEMENTS BEING REMOVED AND REINSTALLED.
- EXISTING LIGHT FIXTURES FOR REUSE IN NEW WORK.

NOTE: ITEMS MODIFIED BY ADDENDUM / CHANGE HAVE BEEN TONED.

- PROJECT LOCATION

KEYPLAN



- SUBMISSION OF BIDS. EXISTING FINISH FLOOR TO
- PROJECT.
- WORK DISRUPTS THE EXISTING FINISHES. CARE SHALL BE TAKEN TO MINIMIZE THE DAMAGE TO EXISTING FINISHES, SURFACES, GREEN ROOF TRAYS, DAMAGE THAT OCCURS TO ADJACENT SURFACES OR RESPONSIBILITY OF THE CONTRACTOR. ANY GREEN ROOF TRAYS DAMAGED BY CONSTRUCTION ACTIVITIES
- REMOVE AND SALVAGE DOOR CONTROL/ CAMERA'S AND INTERCOM/ TURN OVER TO OWNER FOR
- CONTRACTOR FOR REINSTALLATION
- LIGHTS/ TURN OVER TO NURSE CALL VENDOR FOR REINSTALLATION ALL WORK OUTSIDE OF CONSTRUCTION LIMITS TO BE
- COORDINATED WITH THE HOSPITAL FOR ACCESS AND TIME SCHEDULE AVAILABLE FOR CONSTRUCTION.
- ALL MEDICAL EQUIPMENT WILL BE DISMANTLED AND
- ARE TO BE DEMOLISHED. REMOVE ALL ITEMS LOCATED WITHIN DEMOLISHED PARTITIONS, UNLESS OTHERWISE
- 13. ALL DEMOLISHED MATERIALS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND
- 14. ENSURE THAT TEMPORARY PROTECTION IS PROVIDED IN ALL LOCATIONS WHERE WORK OCCURS OUTSIDE THE PREMISES. PROVIDE DUSTPROOF BARRIERS AT AREAS
- CONTRACTOR TO PROVIDE TEMPORARY DUST BARRIERS/PARTITIONS AS REQUIRED FOR THE ALL DEMOLISHED PARTITIONS ARE CONSTRUCTED OF
- FLOOR AND WALLS AS REQUIRED FOR NEW FLOOR
- REFERENCE DETAIL 29/AD2.1 FOR TEMPORARY
- CONSTRUCTOR TO REINSTALL ALL DISTURBED SEISMIC
- CONTRACTOR TO REMOVE AND SALVAGE ALL COORDINATE WITH ELECTRICAL DRAWINGS.

 \propto MRI 30

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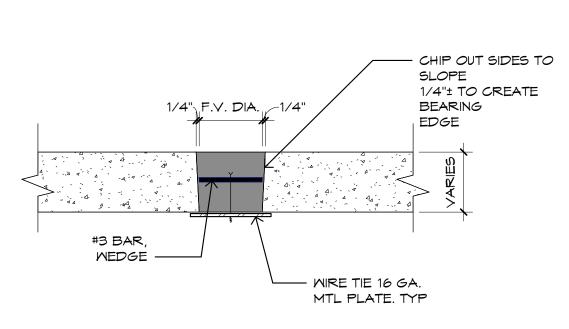
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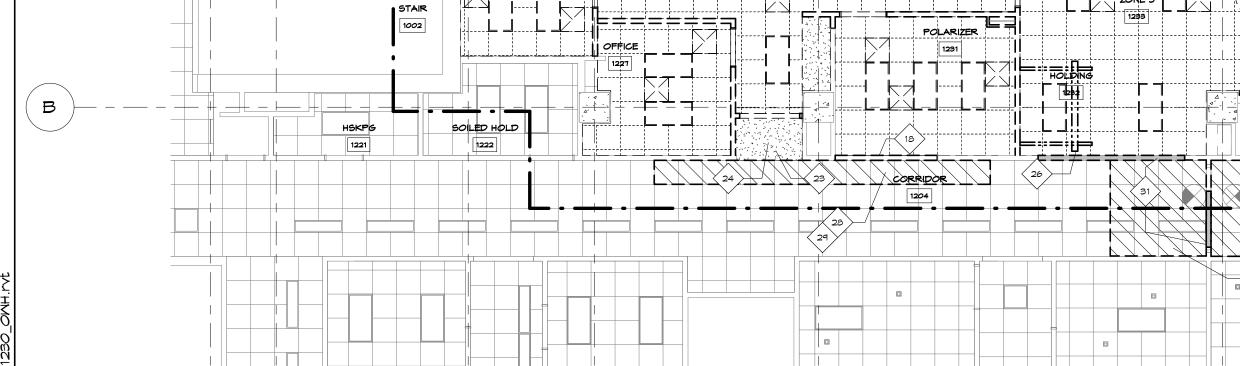
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FOR INFILL(S) 4" DIA. OR SMALLER

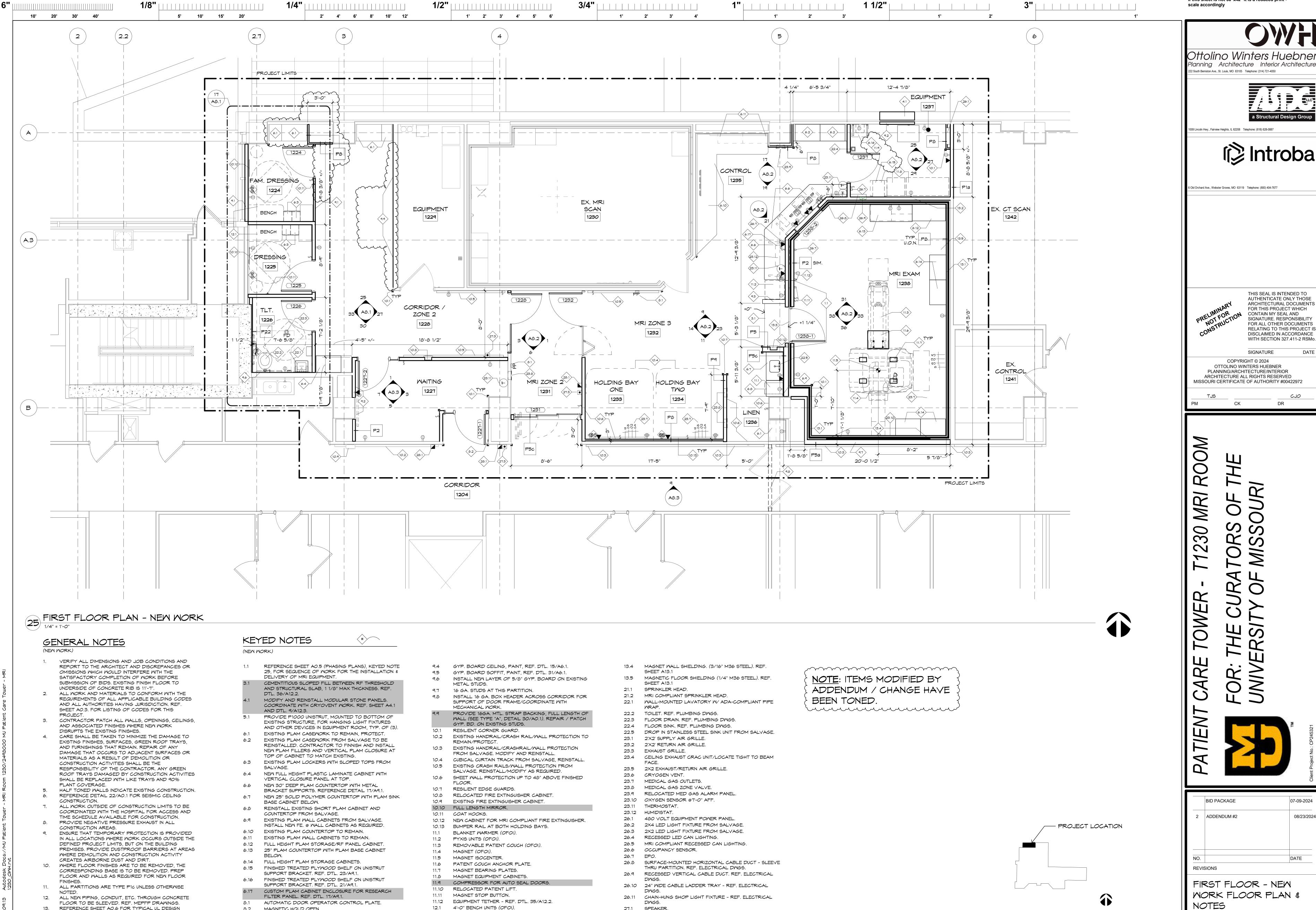
, INFILL OF SMALL PENETRATION THRU EXISTING SLAB



FIRST FLOOR - DEMOLITION REFLECTED CEILING PLAN

1/8" = 1'-0"

ZONE 2



27.1 SPEAKER.

27.2 WIRELESS ACCESS POINT.

28.1 CARD READER (OFOI).

28.2 SMOKE DETECTOR.

28.3 FIRE ALARM.

27.3 INTERCOM BUZZER FROM SALVAGE.

4'-0" BENCH UNITS (OFOI).

RF SHIELDED ENCLOSURE.

13.3 RF THRESHOLD. REF.DTL. 35/A12.2

13.2 RF EQUIPMENT FILTER PANEL.

13.1

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DRAWING NO.

A2.1

scale accordingly

KEYPLAN

REFERENCE SHEET AO.6 FOR TYPICAL UL DESIGN

REFERENCE 12 SERIES DOCUMENTS FOR RF AND

REFERENCE 11 SERIES DOCUMENTS FOR EQUIPMENT

MAGNETIC SHIELDING SCOPES OF WORK.

CONSTRUCTION.

PLANS AND SCHEDUALS.

PENETRATIONS FOR FIRESTOPPING AND FIRE RATED

8.2 MAGNETIC HOLD OPEN.

DTL. 20/A9.1.

10/A9.1.

DEMOUNTABLE PARTITION SYSTEMS (OFCI). REF. DTL.

PARTIAL HEIGHT WALL WITH SOLID POLYMER CAP. REF.

ALIGN NEW PARTITION WITH EXISTING.

