



PATIENT CARE TOWER - 8TH FLOOR BONE MARROW TRANSPLANT UNIT RENOVATION

MU PROJECT NO. - CP221933

AT UNIVERSITY OF MISSOURI COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI





P: 573.882.4097

University of Missouri

ARCHITECT: BSA LIFESTRUCTURES 6601 COLLEGE BLVD. SUITE 100 OVERLAND PARK, KS 66211 P: 913.402.1100 F: 913.998.6001

MEP CONSULTANT: MCCLURE ENGINEERING 1000 CLARK AVE. ST. LOUIS, MO 63102 P: 314.645.6232

OWNER: UNIVERSITY OF MISSOURI - COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI 305 JESSE HALL COLUMBIA, MO 65211

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DATE 05/31/2024 ADDENDUM #1

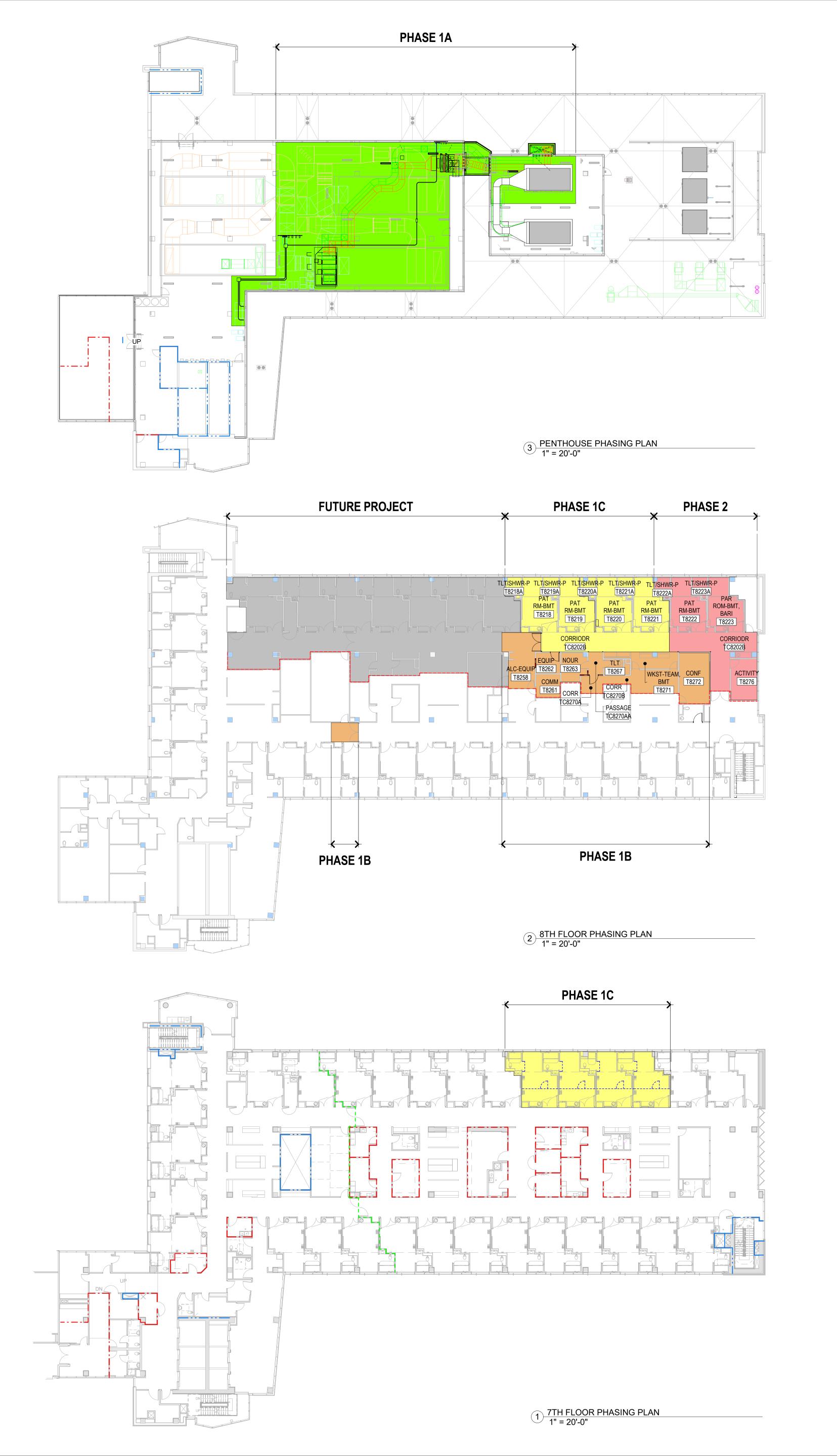




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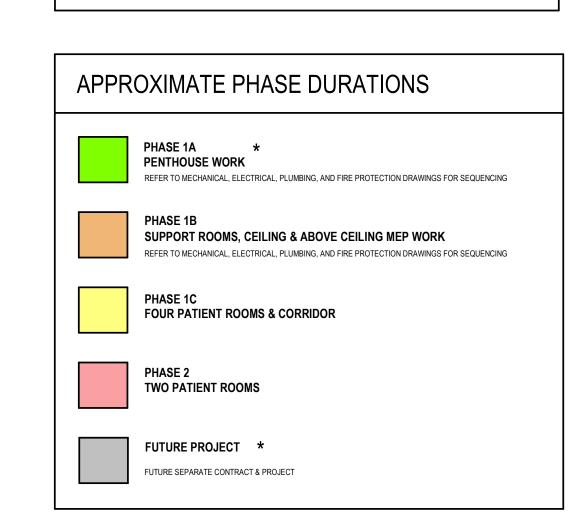
COVER SHEET

BSALS PROJECT NO. DATE 09 MAY, 2024



PHASING PLAN NOTES

- COORDINATE ALL PHASING WORK AND SEQUENCING WITH OWNER AND STAFF PRIOR TO THE START OF EACH PHASE. PHASING TO BE FINALIZED DURING PRECONSTRUCTION MEETING WITH OWNER, ARCHITECT, ENGINEER, CONTRACTOR, SUB-CONTRACTORS, AND STAFF
- B. PROVIDE TEMPORARY BARRIERS BETWEEN PHASES AS DIRECTED IN THE SPECIFICATIONS. PRIOR TO THE INSTALLATION, REMOVAL, AND SEQUENCING OF TEMPORARY BARRIERS, REFER TO THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308 AND ELECTRICAL SHEETS FOR ALL ABOVE CEILING RELATED WORK.
- ALLOW A MINIMUM OF 15 BUSINESS DAYS FOR OWNER MOVE INTO NEWLY COMPLETED SPACE AND MOVE OUT OF NEXT PHASE AREAS





McClureEngineering

Architectural Registration Number (Missouri) - 2017014317

MCCLURE ENGINEERING 1000 CLARK AVE. ST. LOUIS, MO 63102 ph: 314.645.6232

Engineering Registration Number (Missouri) - 000087

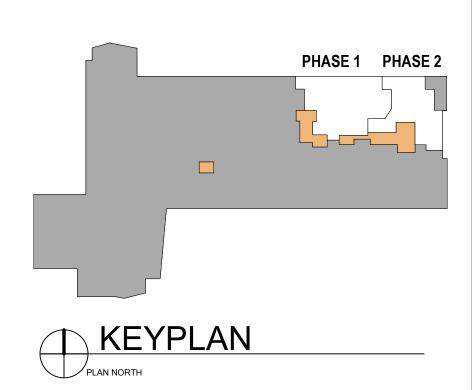


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PATIENT CARE
TOWER - 8TH
FLOOR BONE
MARROW
TRANSPLANT UNIT
RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

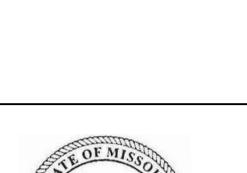
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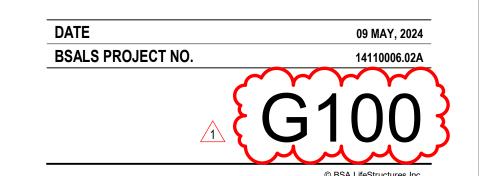
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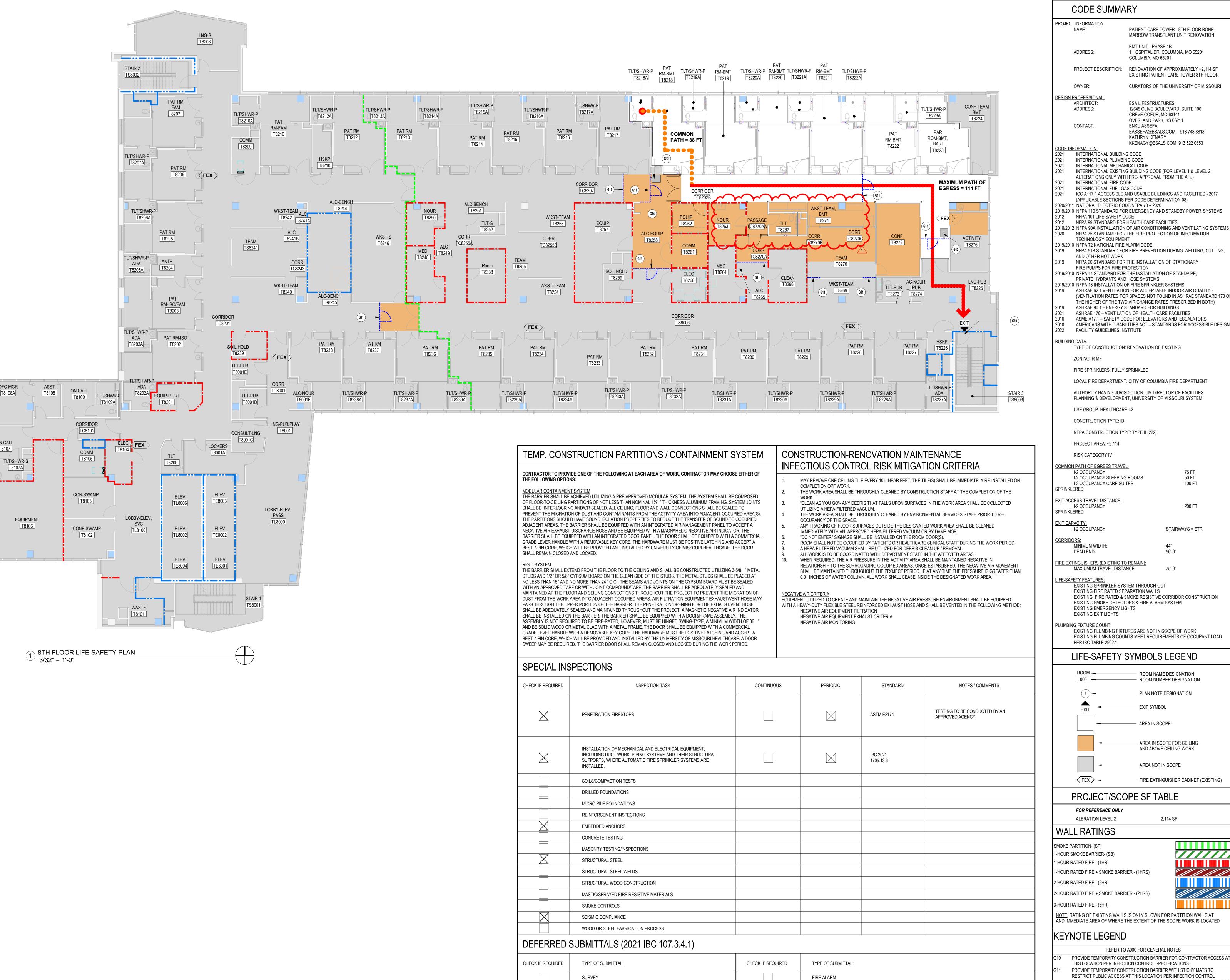
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 05/31/2024
 ADDENDUM #1



PHASING PLANS

MO# A-2017014317





CIVIL

LANDSCAPING

ARCHITECTURAL

STRUCTURAL

MECHANICAL

ELECTRICAL

PLUMBING

FIRE SPRINKLER

FIRESTOPPING

CITY/PUBLIC WORK DETAILS

SEISMIC (SEISMIC RESISTANCE OF MEP SYSTEMS)

A/V

OTHER:

OTHER:

CODE SUMMARY PROJECT INFORMATION: PATIENT CARE TOWER - 8TH FLOOR BONE MARROW TRANSPLANT UNIT RENOVATION BMT UNIT - PHASE 1B 1 HOSPITAL DR, COLUMBIA, MO 65201 ADDRESS: COLUMBIA, MO 65201 RENOVATION OF APPROXIMATELY ~2,114 SF EXISTING PATIENT CARE TOWER 8TH FLOOR CURATORS OF THE UNIVERSITY OF MISSOURI DESIGN PROFESSIONAL ARCHITECT: BSA LIFESTRUCTURES ADDRESS: 12645 OLIVE BOULEVARD, SUITE 100 CREVE COEUR, MO 63141 OVERLAND PARK, KS 66211 EASSEFA@BSALS.COM, 913 748 8813 KATHRYN KENAGY KKENAGY@BSALS.COM, 913 522 0853 CODE INFORMATION: INTERNATIONAL BUILDING CODE INTERNATIONAL PLUMBING CODE INTERNATIONAL MECHANICAL CODE INTERNATIONAL EXISTING BUILDING CODE (FOR LEVEL 1 & LEVEL 2 ALTERATIONS ONLY WITH PRE- APPROVAL FROM THE AHJ) INTERNATIONAL FIRE CODE INTERNATIONAL FUEL GAS CODE ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - 2017 (APPLICABLE SECTIONS PER CODE DETERMINATION 08) 2020/2011 NATIONAL ELECTRIC CODE/NFPA 70 – 2020 2019/2010 NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS NFPA 101 LIFE SAFETY CODE 2012 NFPA 99 STANDARD FOR HEALTH CARE FACILITIES 2018/2012 NFPA 90A INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS 2020 NFPA 75 STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT 2019/2010 NFPA 72 NATIONAL FIRE ALARM CODE 2019 NFPA 51B STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT WORK NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY FIRE PUMPS FOR FIRE PROTECTION 2019/2010 NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE PRIVATE HYDRANTS AND HOSE SYSTEMS 2019/2010 NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEMS ASHRAE 62.1 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY (VENTILATION RATES FOR SPACES NOT FOUND IN ASHRAE STANDARD 170 OR THE HIGHER OF THE TWO AIR CHANGE RATES PRESCRIBED IN BOTH) ASHRAE 90.1 – ENERGY STANDARD FOR BUILDINGS ASHRAE 170 – VENTILATION OF HEALTH CARE FACILITIES ASME A17.1 – SAFETY CODE FOR ELEVATORS AND ESCALATORS AMERICANS WITH DISABILITIES ACT - STANDARDS FOR ACCESSIBLE DESIGN FACILITY GUIDELINES INSTITUTE | BUILDING DATA: | TYPE OF CONSTRUCTION: RENOVATION OF EXISTING ZONING: R-MF FIRE SPRINKLERS: FULLY SPRINKLED LOCAL FIRE DEPARTMENT: CITIY OF COLUMBIA FIRE DEPARTMENT AUTHORITY HAVING JURISDICTION: UM DIRECTOR OF FACILITIES PLANNING & DEVELOPMENT, UNIVERSITY OF MISSOURI SYSTEM USE GROUP: HEALTHCARE I-2 CONSTRUCTION TYPE: IB NFPA CONSTRUCTION TYPE: TYPE II (222) PROJECT AREA: ~2,114 RISK CATEGORY IV OMMON PATH OF EGREES TRAVEL 75 FT I-2 OCCUPANCY I-2 OCCUPANCY SLEEPING ROOMS 50 FT I-2 OCCUPANCY CARE SUITES 100 FT **EXIT ACCESS TRAVEL DISTANCE:** I-2 OCCUPANCY 200 FT SPRINKLERED EXIT CAPACITY: I-2 OCCUPANCY STAIRWAYS = ETR MINIMUM WIDTH: 50'-0" DEAD END: FIRE EXTINGUISHERS (EXISTING TO REMAIN): MAXIUMUM TRAVEL DISTANCE: **LIFE-SAFETY FEATURES**: EXISTING SPRINKLER SYSTEM THROUGH-OUT EXISTING FIRE RATED SEPARATION WALLS EXISTING FIRE RATED & SMOKE RESISTIVE CORRIDOR CONSTRUCTION EXISTING SMOKE DETECTORS & FIRE ALARM SYSTEM EXISTING EMERGENCY LIGHTS EXISTING EXIT LIGHTS PLUMBING FIXTURE COUNT: EXISTING PLUMBING FIXTURES ARE NOT IN SCOPE OF WORK EXISTING PLUMBING COUNTS MEET REQUIREMENTS OF OCCUPANT LOAD PER IBC TABLE 2902.1 LIFE-SAFETY SYMBOLS LEGEND ROOM NAME DESIGNATION 000 ROOM NUMBER DESIGNATION PLAN NOTE DESIGNATION EXIT SYMBOL AREA IN SCOPE AREA IN SCOPE FOR CEILING AND ABOVE CEILING WORK

- AREA NOT IN SCOPE

REFER TO A000 FOR GENERAL NOTES

SPECIFICATIONS. BARRIER SYSTEM TO EXTEND UP TO CEILING, AND PROVIDE 6

MIL FIRE RETARDANT POLYETHYLENE SHEETING ENCLOSURE ABOVE CEILING TO

THE INSTALLATION, REMOVAL, AND SEQUENCING OF TEMPORARY BARRIERS, REFER TO THE PHASING PLAN AND NOTES ON SHEET G100 AND THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308. REFER TO MECHANICAL

AND ELECTRICAL DRAWINGS FOR ALL ABOVE CEILING RELATED WORK.

NEGATIVE AIR MACHINE. COORDINATE LOCATION WITH OWNER AND STAFF.

PROVIDE AN ANTE ROOM WITH NEGATIVE AIR MACHINE, A CLOSER ON THE DOOR, AND A HEPA VAC TO CLEAN BOOTS, CARTS, PEOPLE, AND SUPPLIES

LEAVING THE WORKING AREA. COORDINATE WITH THE OWNER PRIOR TO THE

INSTALLATION, REMOVAL, AND SEQUENCING OF AN ANTE ROOM AND REFER TO THE PHASING PLAN AND NOTES ON SHEET 6100 AND THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308.

COORDINATE SEQUENCING WITH OWNER AND STAFF.

ZIPWALL DUST BARRIER SYSTEM.

BOTTOM OF FLOOR STRUCTURE ABOVE. PROVIDE MANOMETER 6 INCH FROM CEILING TO INSURE CONSTRUCTION AREA IS NEGATIVE PRESSURE. PRIOR TO

— FIRE EXTINGUISHER CABINET (EXISTING)

2,114 SF



Creve Coeur, MO 63141 ph 314.754.6306

Architectural Registration Number (Missouri) - 2017014317

MCCLUREENGINEERING

MCCLURE ENGINEERING 1000 CLARK AVE. ST. LOUIS, MO 63102 ph: 314.645.6232

Engineering Registration Number (Missouri) - 000087

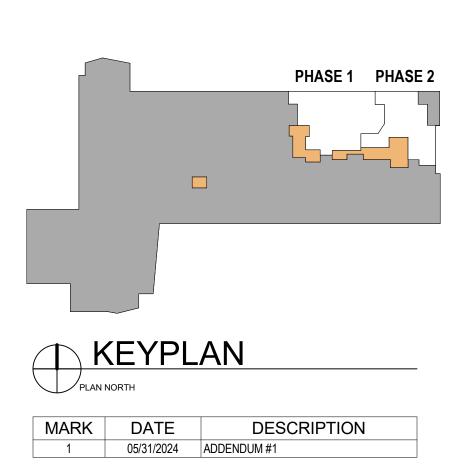
University of Missouri

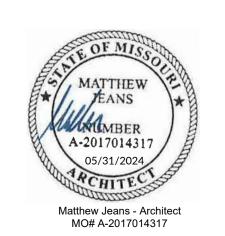
MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF

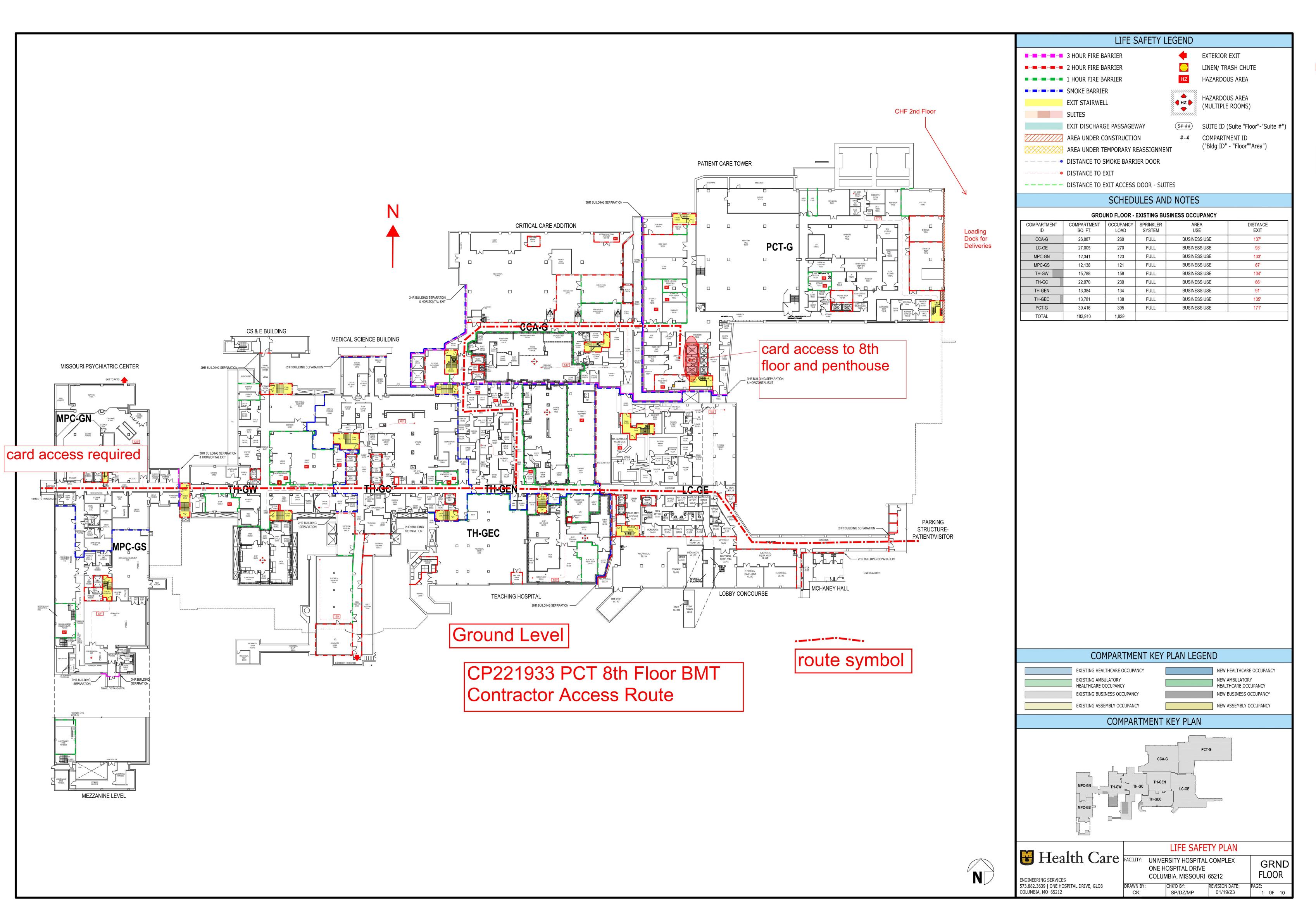
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LIFE SAFETY & INFECTION CONTROL PLAN - 8TH **FLOOR**

BSALS PROJECT NO.





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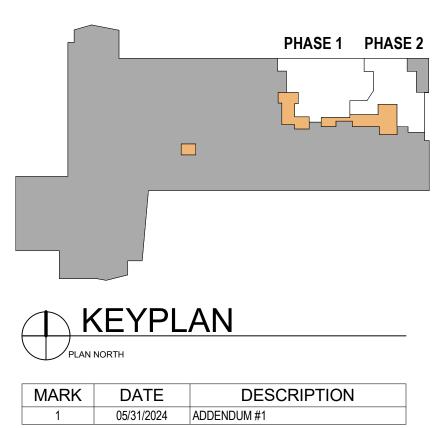


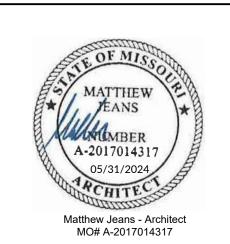
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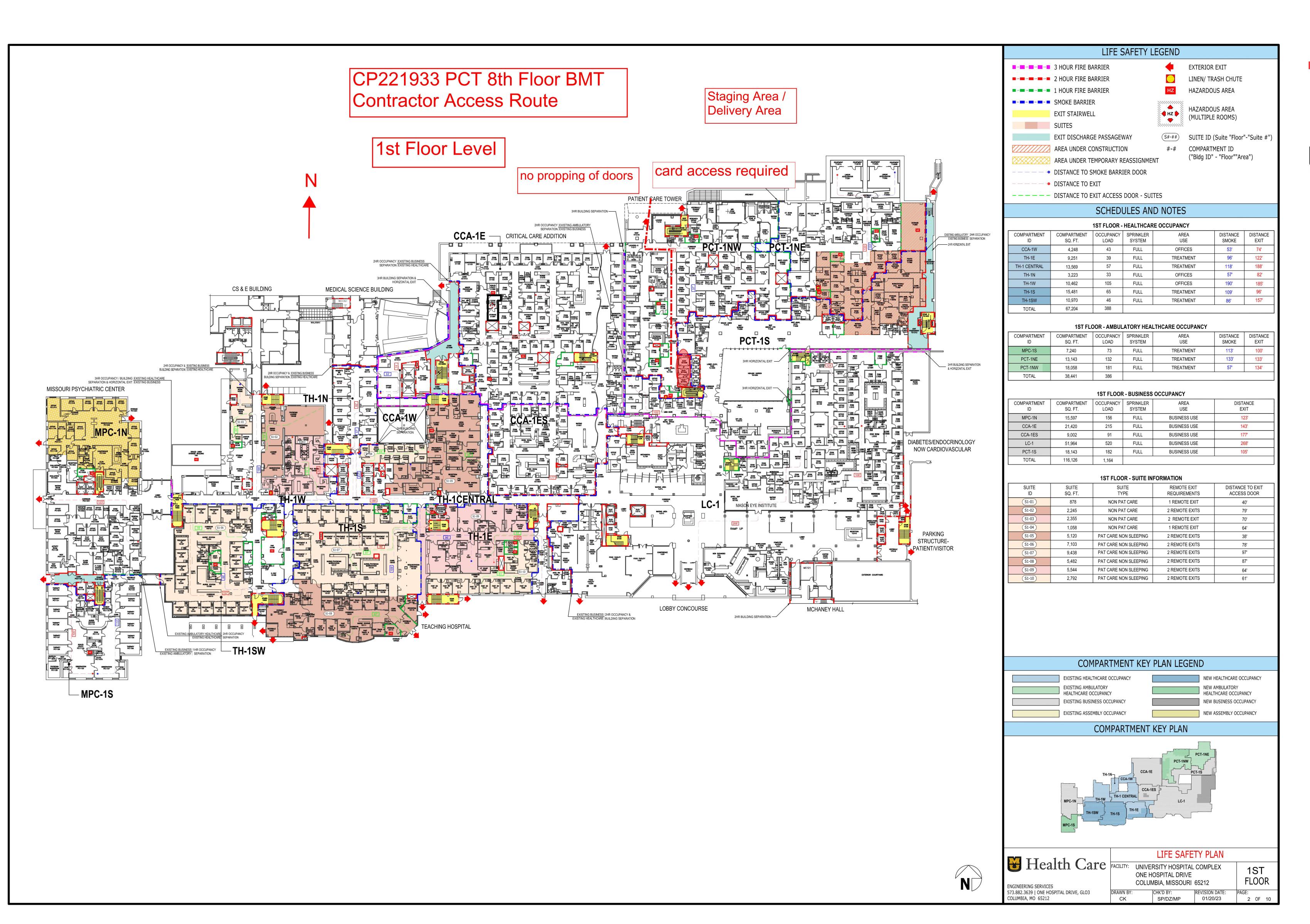
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CONTRACTOR ACCESS AND STAGING PLAN -GROUND FLOOR LEVEL

DATE 09 MAY, 2024
BSALS PROJECT NO. 14110006.02A





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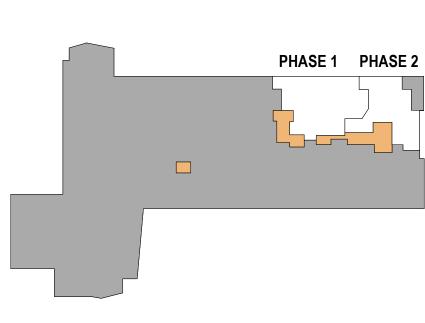
University of Missouri

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PATIENT CARE
TOWER - 8TH
FLOOR BONE
MARROW
TRANSPLANT UNIT
RENOVATION

COLUMBIA, MO
FOR THE CURATORS OF THE UNIVERSITY OF

BID SET



DESCRIPTION

KEYPLAN PLAN NORTH

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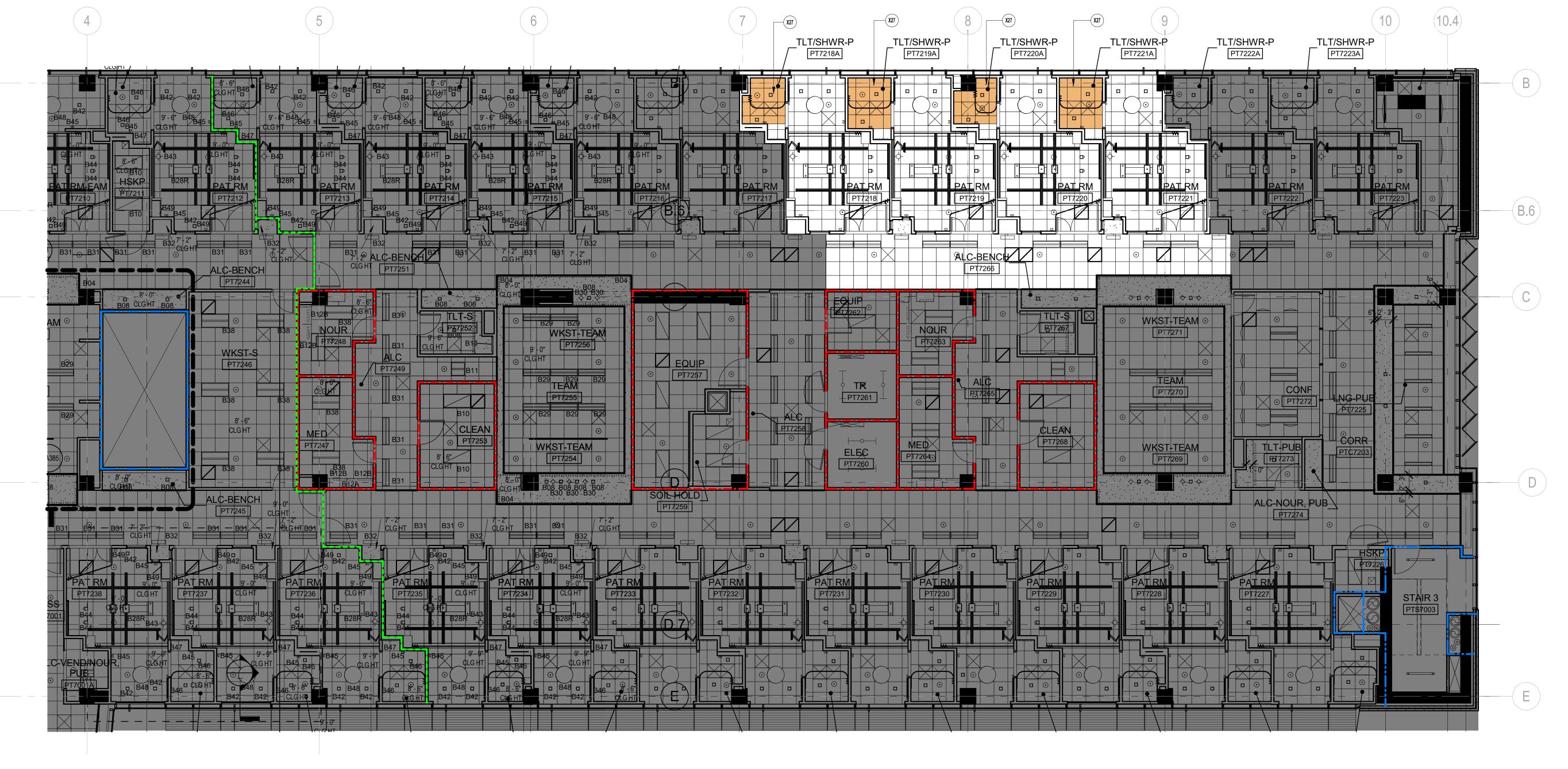
Matthew Jeans - Architect

MO# A-2017014317

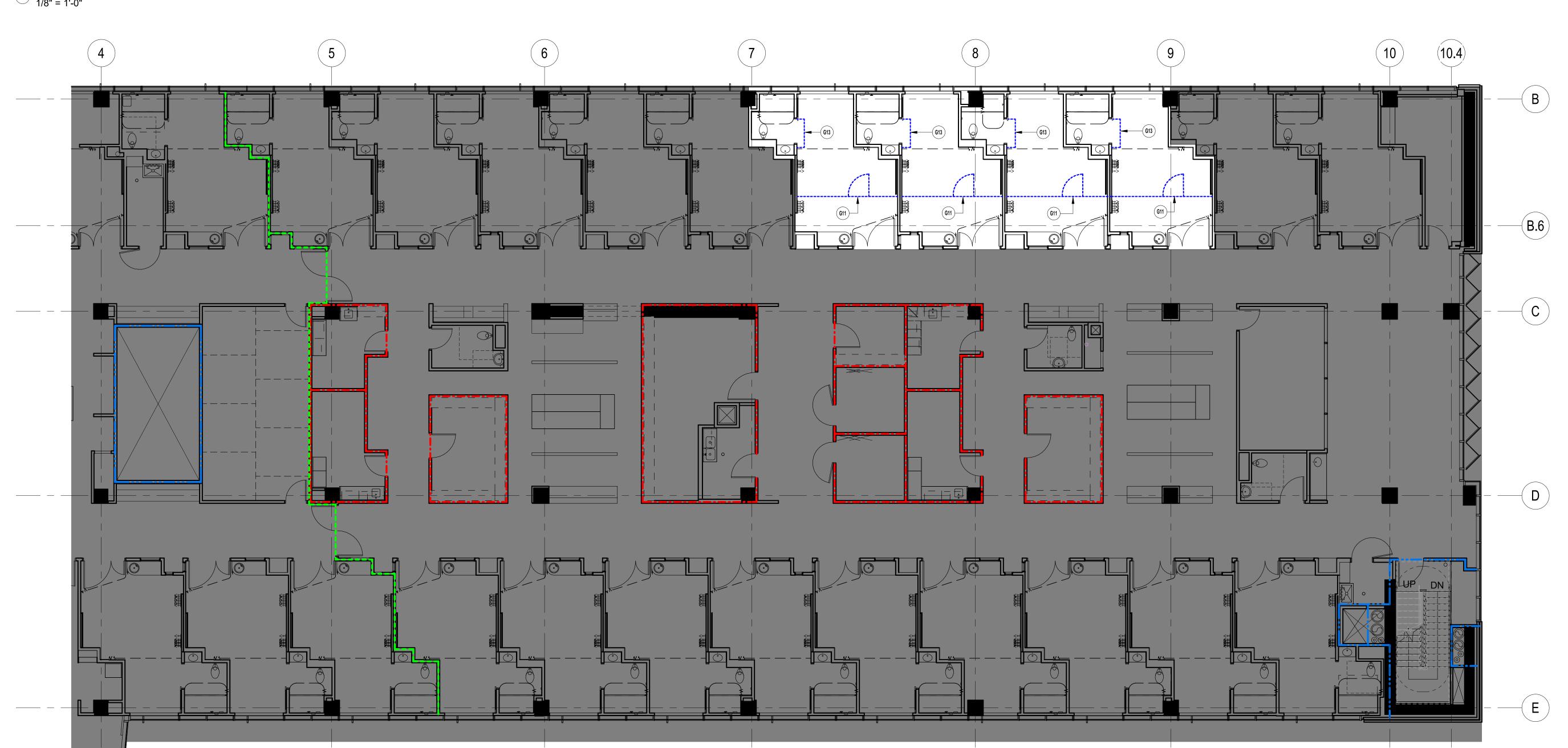
CONTRACTOR ACCESS AND STAGING PLAN -FIRST FLOOR LEVEL

DATE 09 MAY, 2024

BSALS PROJECT NO. 14110006.02A



SEVENTH FLOOR REFLECTED CEILING 1 PLAN - REFERENCE ONLY 1/8" = 1'-0"



KEYNOTE LEGEND

PROVIDE TEMPORARY CONSTRUCTION BARRIER WITH STICKY MATS TO RESTRICT PUBLIC ACCESS AT THIS LOCATION PER INFECTION CONTROL SPECIFICATIONS. BARRIER SYSTEM TO EXTEND UP TO CEILING, AND PROVIDE 6 BOTTOM OF FLOOR STRUCTURE ABOVE. PROVIDE MANOMETER 6 INCH FROM CEILING TO INSURE CONSTRUCTION AREA IS NEGATIVE PRESSURE. PRIOR TO THE INSTALLATION, REMOVAL, AND SEQUENCING OF TEMPORARY BARRIERS, REFER TO THE PHASING PLAN AND NOTES ON SHEET 6100 AND THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL ABOVE CEILING RELATED WORK. COORDINATE SEQUENCING WITH OWNER AND STAFF.

REFER TO A000 FOR GENERAL NOTES

ZIPWALL DUST BARRIER SYSTEM. CEILING WITHIN OCCUPIED AREA TO BE TEMPORARILY REMOVED FOR SCOPE O UNDERFLOOR PLUMBING DEMO/NEW WORK, AS INDICATED BY SHADED REGION CEILING TILES SHALL NOT BE DOWN FOR MORE THAN 24 HOURS. REFER TO PLUMBING DRAWINGS AND COORDINATE EXTENT. ALL CEILINGS EXISTING

CONDITIONS TO BE MAINTAINED. REPLACED DAMAGED TILES & GRID AS REQUIRED. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS. WORK TO BE SCHEDULED WITH OWNER.

WALL RATINGS

SMOKE PARTITION- (SP) 1-HOUR SMOKE BARRIER- (SB) 1-HOUR RATED FIRE - (1HR) 1-HOUR RATED FIRE + SMOKE BARRIER - (1HRS) 2-HOUR RATED FIRE - (2HR) 2-HOUR RATED FIRE + SMOKE BARRIER - (2HRS) 3-HOUR RATED FIRE - (3HR) NOTE: RATING OF EXISTING WALLS IS ONLY SHOWN FOR PARTITION WALLS AT AND IMMEDIATE AREA OF WHERE THE EXTENT OF THE SCOPE WORK IS LOCATED

Engineering Registration Number (Missouri) - 000087

BSA LifeStructures 12645 Olive Boulevard, Suite 100 Creve Coeur, MO 63141

ph 314.754.6306

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MCCLUREENGINEERING

MCCLURE ENGINEERING 1000 CLARK AVE.

ST. LOUIS, MO 63102

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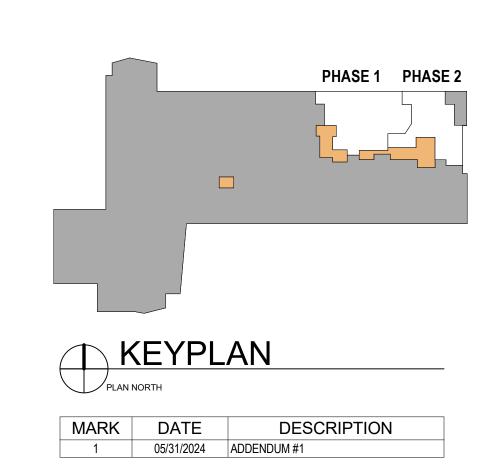
PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW**

TRANSPLANT UNIT

RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET





7TH FLOOR INFECTION **CONTROL & DEMOLITION** REFLECTED CEILING PLAN

BSALS PROJECT NO.

A107

07- SEVENTH FLOOR INFECTION

CONTROL PLAN

1/8" = 1'-0"



KEYNOTE LEGEND

- REFER TO A000 FOR GENERAL NOTES PROVIDE TEMPORARY CONSTRUCTION BARRIER WITH STICKY MATS TO RESTRICT PUBLIC ACCESS AT THIS LOCATION PER INFECTION CONTROL SPECIFICATIONS. BARRIER SYSTEM TO EXTEND UP TO CEILING, AND PROVIDE 6 MIL FIRE RETARDANT POLYETHYLENE SHEETING ENCLOSURE ABOVE CEILING TO
- BOTTOM OF FLOOR STRUCTURE ABOVE. PROVIDE MANOMETER 6 INCH FROM CEILING TO INSURE CONSTRUCTION AREA IS NEGATIVE PRESSURE. PRIOR TO THE INSTALLATION, REMOVAL, AND SEQUENCING OF TEMPORARY BARRIERS, REFER TO THE PHASING PLAN AND NOTES ON SHEET G100 AND THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308. REFER TO MECHANICAL
 - AND ELECTRICAL DRAWINGS FOR ALL ABOVE CEILING RELATED WORK. COORDINATE SEQUENCING WITH OWNER AND STAFF. ZIPWALL DUST BARRIER SYSTEM.
- PROVIDE AN ANTE ROOM WITH NEGATIVE AIR MACHINE, A CLOSER ON THE DOOR, AND A HEPA VAC TO CLEAN BOOTS, CARTS, PEOPLE, AND SUPPLIES LEAVING THE WORKING AREA. COORDINATE WITH THE OWNER PRIOR TO THE INSTALLATION, REMOVAL, AND SEQUENCING OF AN ANTE ROOM AND REFER TO THE PHASING PLAN AND NOTES ON SHEET G100 AND THE SHUTDOWN AND SEQUENCING NOTES ON MECHANICAL SHEET M308.
- REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY. PREPARE OPENING TO BE INFILLED WITH NEW WALL CONSTRUCTION. SALVAGE DOOR HARDWARE FOR REUSE AS NEEDED FOR THE NEW DOOR TO BE INSTALLED ON THE NORTH SIDE OF EQUIPMENT ROOM T8262. REFER TO ARCHITECTURAL DIMENSION PLANS FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING MOSAIC TILE FLOORING & CERAMIC WALL TILE IN THEIR ENTIRETY. PREPARE ALL REMAINING SURFACES TO RECEIVE NEW FINISH AS SCHEDULED. REF: NEW WORK PLANS.
- REMOVE HORIZONTAL METAL GYP. REVEAL. PATCH REMAINING VOID LEFT BY REVEAL; PREP ALL SURFACES FOR NEW FINISH AS SCHEDULED. REMOVE PLASTIC LAMINATE PANEL & HORIZONTAL REVEAL TRIM.
- REMOVE EXISTING WALL TILE. PATCH & REPAIR REMAINING SURFACES. PREP FOR NEW FINISH AS SCHEDULED. REF: NEW WORK PLANS. REF: T8221 FOR TYP. DEMO ELEVATIONS.
- REF: T8221A FOR TYP. DEMO ELEVATIONS AND NOTES. REMOVE GLASS MOSAIC WALL TILE. PATCH & REPAIR REMAINING SURFACE.

SALVAGE & RETURN TO OWNER FOR STORAGE.

- PREP FOR NEW FINISH AS SCHEDULED. REF: NEW WORK PLANS. REMOVE SLIDER DOOR TOP VALANCE IN PREPARATION FOR NEW SLOPED
- REMOVE EXISTING VINYL WALLCOVERING ON ALL WALLS UP TO THIS LOCATION.
- REMOVE EXISTING BUMPER RAILS & HANDRAILS. SALVAGE & STORE FOR RE-INSTALLATION IN SAME LOCATIONS, REF: NEW WORK PLANS. REMOVE EXISTING SNAP-ON CORNER GUARDS & ASSOCIATED RETAINERS.
- REMOVE EXISTING TRENCH DRAIN IN ITS ENTIRETY, AND PREPARE THE EXISTING DRAIN HOLE THROUGH THE SLAB AS REQUIRED TO RECEIVE NEW DRAIN SLEEVE. FIELD VERIFY AND TEMPORARILY REMOVE CEILING FROM ROOM BELOW AS NEEDED TO ACCESS UNDERSIDE OF FLOOR. CEILING TILES SHALL NOT BE DOWN FOR MORE THAN 24 HOURS. ALL CEILINGS EXISTING CONDITIONS TO BE MAINTAINED. PATCH/PAINT GYP. BD. CEILINGS AS REQUIRED. REPLACE DAMAGED TILES & GRID AS REQUIRED. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS. ACCESS TO ROOM BELOW AND WORK TO BE SCHEDULED WITH OWNER.
- REMOVE EXISTING SLAB INFILL MATERIAL IN ITS ENTIRETY AND PREPARE REMAINING SURFACE OF FLOOR FOR RE-SLOPING TO THE NEW DRAIN SYSTEM. TEMPORARILY REMOVE THE EXISTING SINK AND COUNTERTOP TO ALLOW FOR
- TILE REMOVAL. PROTECT AND STORE SINK, COUNTERTOP AND BACKSPLASH FOR RE-INSTALLATION IN NEW WORK. REMOVE HORIZONTAL METAL REVEAL FROM EXISTING PLASTIC LAMINATE WALL PANEL. REF: NEW WORK PLANS FOR NEW FINISH
- REMOVE EXISTING WALL COVERING. PATCH AND PREP WALL AS REQUIRED FOR NEW FINISH AS SCHEDULED. RE: NEW WORK PLANS FOR ADDITIONAL REMOVE EXISTING CARPET AND BASE IN ITS ENTIRETY UP TO INDICATED DASHED
- LINE. REMOVE EXISTING WALL COVERING. PREPARE FLOOR AND WALL SURFACES TO RECEIVE NEW FLOORING AND BASE. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION. REMOVE EXISTING FLOOR AND WALL TILE IN ITS ENTIRETY. PREPARE FLOOR AND WALL SURFACE TO RECEIVE NEW FLOORING AND WALL FINISH. TEMPORARILY REMOVE PLUMBING FIXTURES AS REQUIRED FOR INSTALLATION OF NEW
- FINISHES. RE-INSTALL PLUMBING FIXTURES AND WALL MOUNTED ACCESSORIES IN ORIGINAL LOCATION AFTER COMPLETION. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- REMOVE PORTION OF EXISTING WALL. REFER TO NEW WORK FLOOR PLAN FOR LOCATION & ADDITIONAL INFORMATION.
- REMOVE AND SALVAGE EXISTING DOOR, DOOR FRAME, AND DOOR HARDWARE FOR RE-INSTALLATION AT THE NEW SOUTH WALL ADDED IN PASSAGE TC8270AA. REMOVE AND SALVAGE EXISTING DOOR, DOOR FRAME, AND DOOR HARDWARE

FOR RE-INSTALLATION AT THE SAME LOCATION FOLLOWING ABOVE CEILING

DUCT CHASE CONSTRUCTION
TEMPORARILY REMOVE WINDOW BLINDS, CURTAIN TRACKS, AND WALL MOUNTED ACCESSORIES SUCH AS GLOVE BOX HOLDERS, BRACKETS, FILE HOLDERS, ETC, AS REQUIRED. RE-INSTALL BACK TO THEIR RESPECTIVE ORIGINAL LOCATIONS AFTER COMPLETION OF WORK.

WALL RATINGS

SMOKE PARTITION- (SP) 1-HOUR SMOKE BARRIER- (SB) 1-HOUR RATED FIRE - (1HR) 1-HOUR RATED FIRE + SMOKE BARRIER - (1HRS) 2-HOUR RATED FIRE - (2HR) 2-HOUR RATED FIRE + SMOKE BARRIER - (2HRS)

3-HOUR RATED FIRE - (3HR) NOTE: RATING OF EXISTING WALLS IS ONLY SHOWN FOR PARTITION WALLS AT

AND IMMEDIATE AREA OF WHERE THE EXTENT OF THE SCOPE WORK IS LOCATED

KEYPLAN

BSA LifeStructures

12645 Olive Boulevard, Suite 100

Creve Coeur, MO 63141

ph 314.754.6306

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MCCLUREENGINEERING

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PATIENT CARE

TOWER - 8TH

FLOOR BONE

MARROW

TRANSPLANT UNIT

RENOVATION

COLUMBIA, MO

FOR THE CURATORS OF THE UNIVERSITY OF

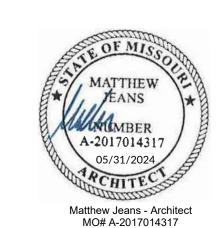
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BID SET

PHASE 1 PHASE 2

DESCRIPTION

MARK DATE 1 05/31/2024 ADDENDUM #1



8TH FLOOR - DEMOLITION PLANS & ELEVATIONS

BSALS PROJECT NO.

A108

WALL RATINGS CEILING REMOVAL LEGEND EXISTING CEILING TILES AND GRIDS TO BE EXISTING CEILING TILES AND GRIDS WITHIN REMOVED IN THEIR ENTIRETY. OCCUPIED AREA TO BE REMOVED AS REQUIRED **EXISTING CEILING TILES TO REMAIN.** FOR MECHANICAL, ELECTRICAL, PLUMBING AND OUTSIDE OF SCOPE BOUNDARY. FIRE PROTECTION SCOPE. REFER TO KEYNOTE X38 FOR ADDITIONAL INFORMATION.

SMOKE PARTITION- (SP) 1-HOUR SMOKE BARRIER- (SB) 1-HOUR RATED FIRE - (1HR) 1-HOUR RATED FIRE + SMOKE BARRIER - (1HRS) 2-HOUR RATED FIRE - (2HR) 2-HOUR RATED FIRE + SMOKE BARRIER - (2HRS) 3-HOUR RATED FIRE - (3HR) NOTE: RATING OF EXISTING WALLS IS ONLY SHOWN FOR PARTITION WALLS AT AND IMMEDIATE AREA OF WHERE THE EXTENT OF THE SCOPE WORK IS LOCATED

REFER TO A000 FOR GENERAL NOTES REMOVE EXISTING PRIVACY CURTAIN & RETURN TO OWNER. EXISTING CURTAIN TRACK TO REMAIN. REMOVE EXISTING CEILING TILE AND GRID. REMOVE PORTION OF EXISTING WALL ABOVE CEILING TO PROVIDE ROOM FOR NEW MECHANICAL SUPPLY AND RETURN AIR DUCT CHASE. REFER TO NEW WORK PLAN AND SECTION DETAILS FOR RATED WALLS AND SOFFIT CONSTRUCTION ABOVE CEILING. REMOVE EXISTING FAN FILTER UNITS.

KEYNOTE LEGEND

REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE RE-INSTALLATION. CEILING TILES EXISTING CONDITIONS TO BE PAINT AS SCHEDULED FOR CEILINGS ON THE INTERIOR FINISH SPECIFICATIONS. PROTECT ALL LIGHT FIXTURES AND DIFFUSERS. WORK TO BE SCHEDULED WITH OWNER.

BSA LifeStructures 12645 Olive Boulevard, Suite 100 Creve Coeur, MO 63141

MCCLUREENGINEERING

ph 314.754.6306

Architectural Registration Number (Missouri) - 2017014317

MCCLURE ENGINEERING 1000 CLARK AVE. ST. LOUIS, MO 63102 ph: 314.645.6232

Engineering Registration Number (Missouri) - 000087

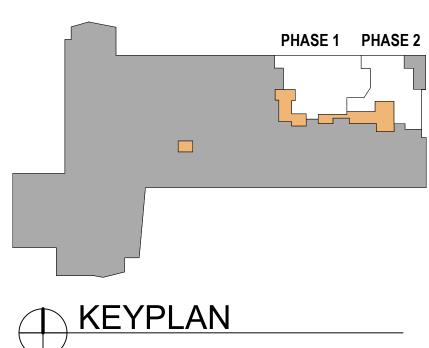
University of Missouri

MU PROJECT #: CP221933

PATIENT CARE

TOWER - 8TH FLOOR BONE MARROW TRANSPLANT UNIT RENOVATION

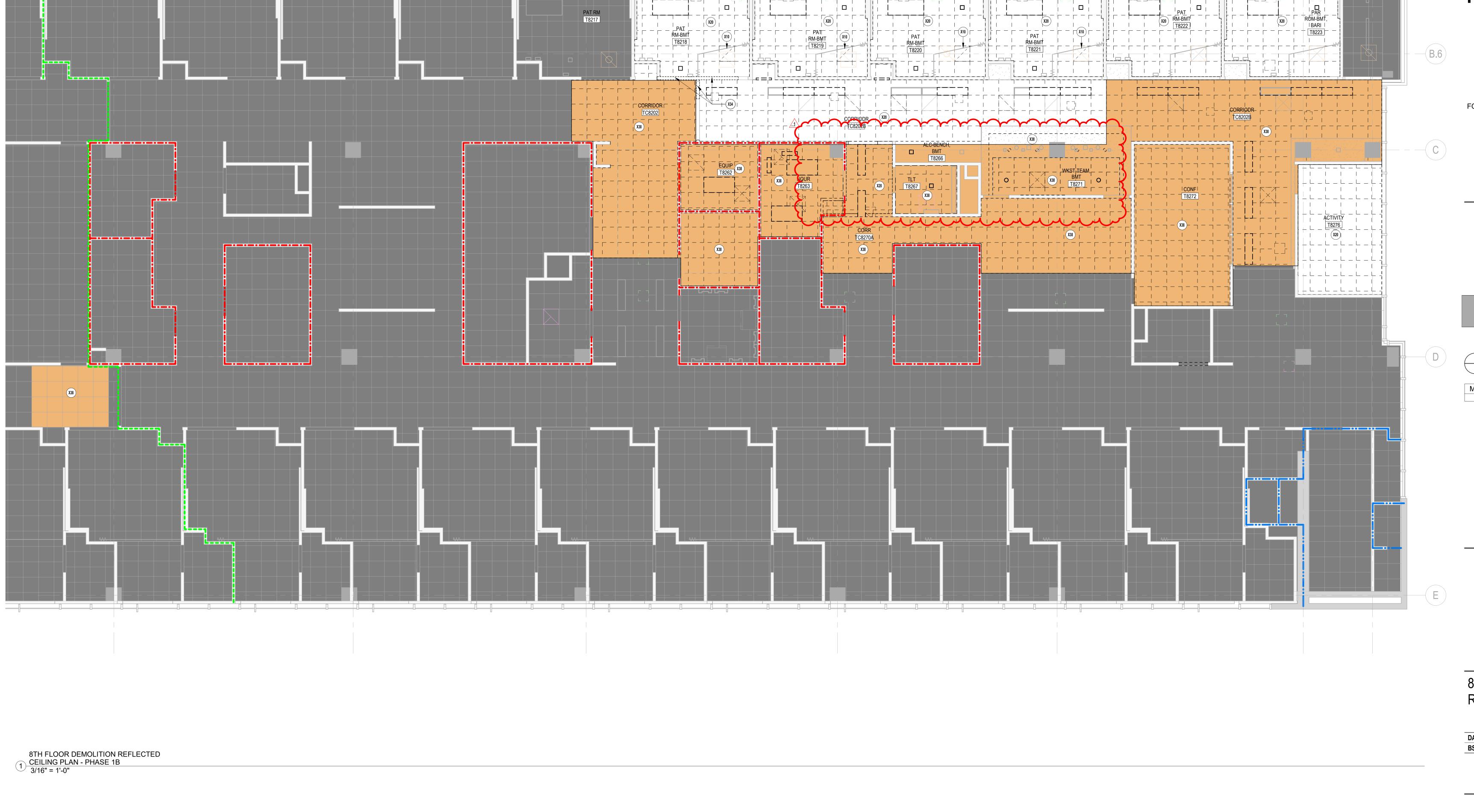
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1 05/31/2024 ADDENDUM #1

8TH FLOOR - DEMOLITION REFLECTED CEILING PLAN

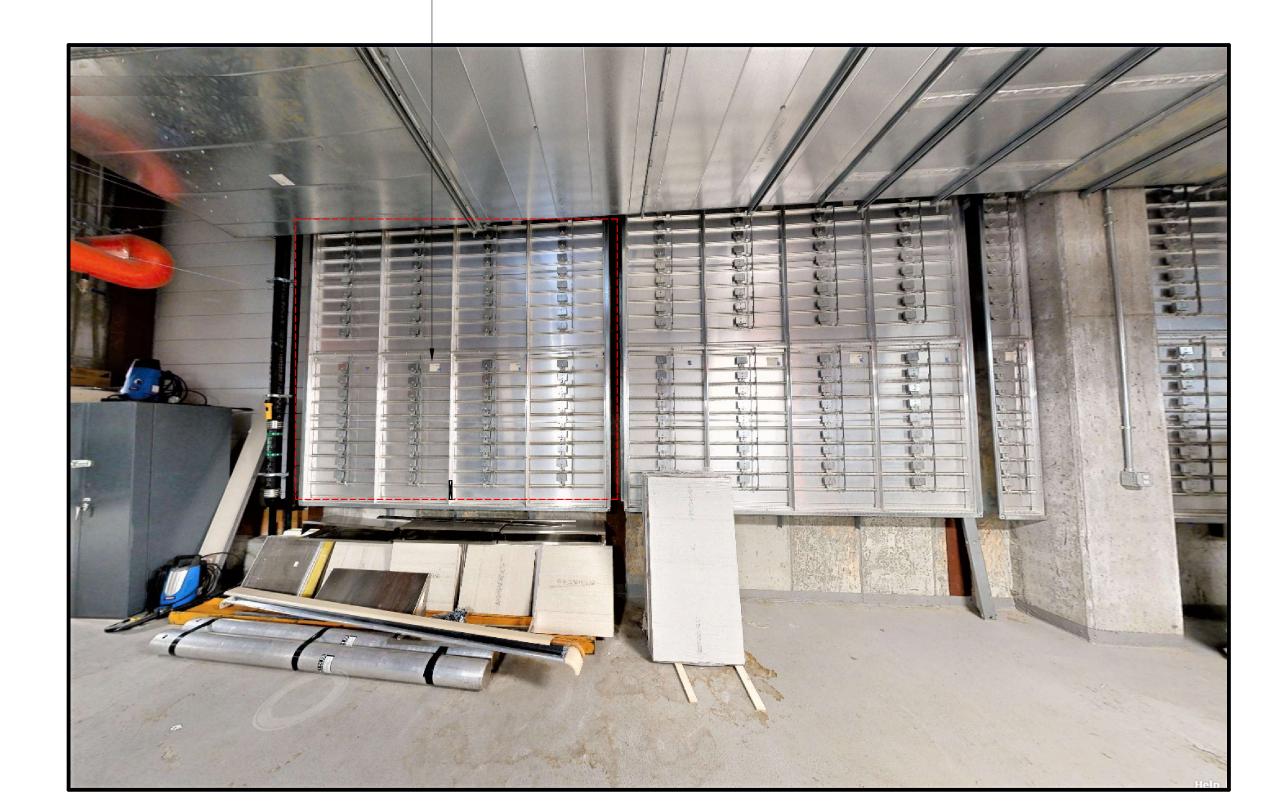
BSALS PROJECT NO.



PENTHOUSE MECHANICAL VENTILATION

LOUVERS - EXTERIOR

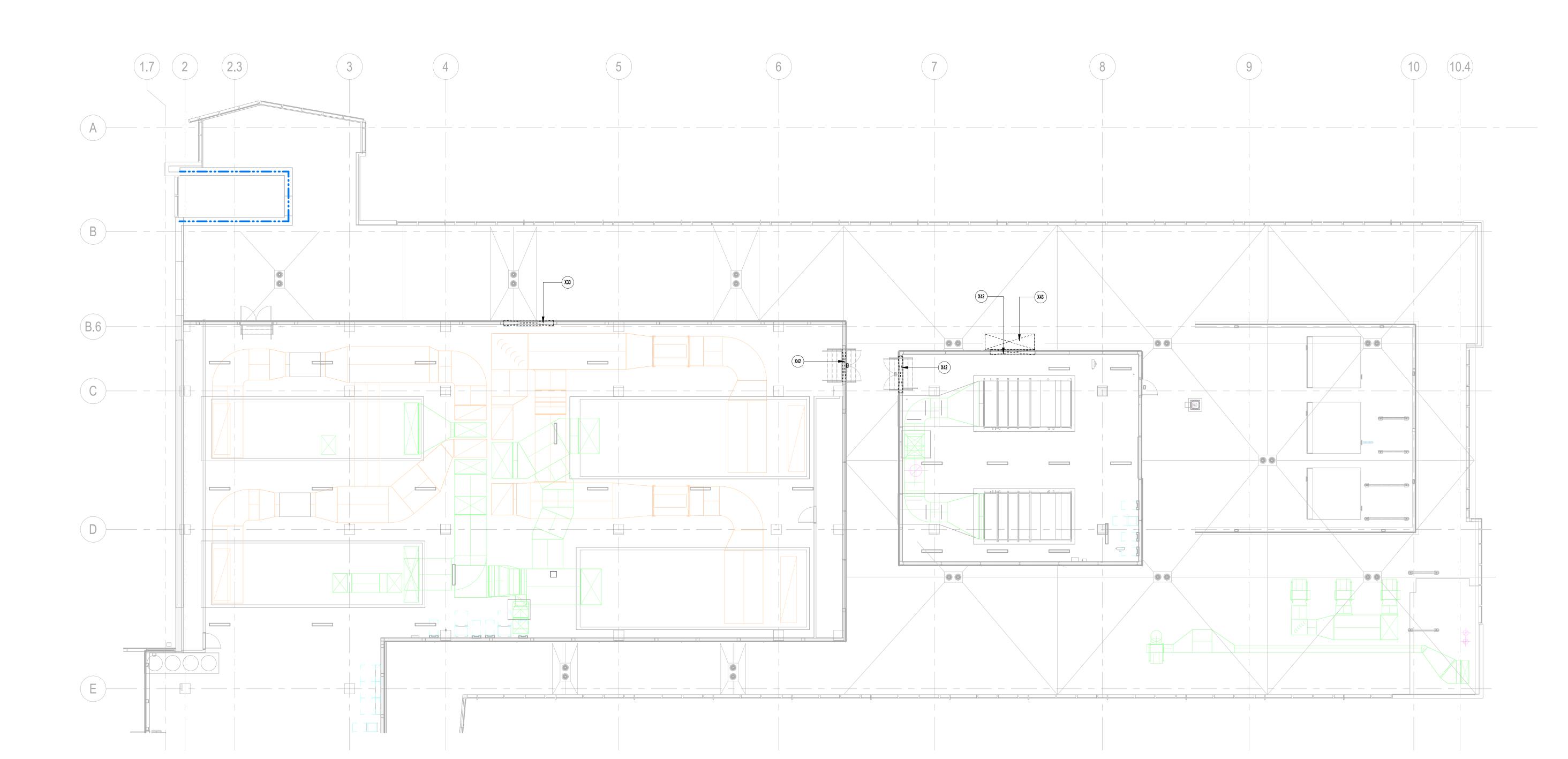
12" = 1'-0"



PENTHOUSE MECHANICAL VENTILATION

LOUVERS - INTERIOR

12" = 1'-0"



EXISTING PENTHOUSE DEMOLITION

KEYNOTE LEGEND

REFER TO A000 FOR GENERAL NOTES TEMPORARILY REMOVE EXISTING VENTILATION LOUVERS TO PROVIDE ACCESS FOR THE CONVEYANCE OF THE NEW AIR HANDLING UNIT TO THE MECHANICAL PENTHOUSE. AREA SHOWN IS AN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF THE NEW UNIT. FIELD VERIFY FOR THE BEST ROUTE TO MOVE THE UNIT TO POSITION. RE-INSTALL LOUVERS BACK TO THEIR

REMOVE PORTION OF EXISTING INSULATED METAL WALL PANELS AS REQUIRED TO PROVIDE OPENING FOR NEW MECHANICAL SUPPLY AND RETURN AIR DUCTS. REPAIR AND PATCH THE EXISTING INSULATED METAL PANELS AROUND THE NEW OPENING AS REQUIRED TO RESTORE TO ORIGINAL CONDITION. REFER TO NEW WORK PLAN AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

STRUCTURAL RIBS AS NEEDED TO PROVIDE NEW OPENING CHASE FOR AIR SUPPLY AND RETURN MECHANICAL DUCTS. REPAIR AND PATCH THE EXISTING ROOF AROUND THE NEW CHASE OPENING AS REQUIRED TO RESTORE TO ORIGINAL CONDITION. REFER TO NEW WORK PLANS, SECTIONS, DETAILS, AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. BSA LifeStructures 12645 Olive Boulevard, Suite 100 Creve Coeur, MO 63141

ph 314.754.6306 Architectural Registration Number (Missouri) - 2017014317

McClureEngineering

MCCLURE ENGINEERING 1000 CLARK AVE. ST. LOUIS, MO 63102 ph: 314.645.6232

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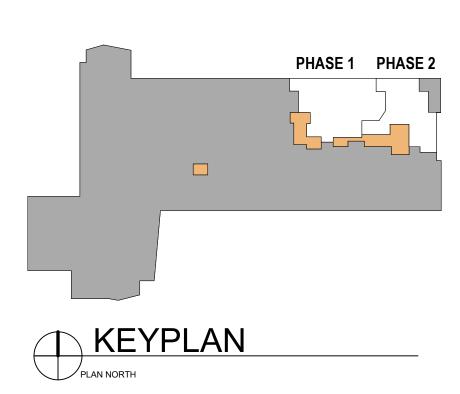


MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

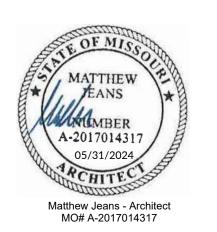
BID SET



 MARK
 DATE
 DES

 1
 05/31/2024
 ADDENDUM #1

DESCRIPTION



PENTHOUSE DEMOLITION PLAN

DATE
BSALS PROJECT NO.



GENERAL FINISH NOTES

- PATTERN NAME, COLOR AND NUMBER FOR EACH MATERIAL ARE GIVEN WHENEVER POSSIBLE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT / INTERIOR DESIGNER TO ENSURE THAT THE CORRECT MATERIAL IS INSTALLED.
- PAINT ALL BULKHEADS, SOFFITS, AND GYPSUM WALLBOARD CEILING SURFACES (EP4) U.N.O. ALL BULKHEADS, SOFFITS, AND GYPSUM WALLBOARD CEILING SURFACES SHALL BE FINISHED WITH THE SAME MATERIAL AND / OR COLOR ON ALL FACES (VERTICAL AND
- HORIZONTAL), U.N.O. REFER TO REFLECTED CEILING PLAN(S) FOR ADDITIONAL CEILING FINISHES. ALL FLOOR MATERIAL TRANSITIONS SHALL BE CENTERED UNDER THE DOOR IN THE
- ALL FLOORING SHALL BE INSTALLED PERPENDICULAR TO ROOM WALLS U.N.O. PROVIDE SEALANT AT ALL DOOR AND WINDOW FRAMES WHERE THEY MEET HARD
- THERE SHALL NOT BE PAINT CONDITIONS THAT OCCUR CAUSING FINISH OR COLOR TO TERMINATE ON AN OUTSIDE CORNER UNLESS SPECIFICALLY NOTED OTHERWISE. IF THIS
- CONDITION OCCURS, BRING IT TO THE ATTENTION OF THE INTERIOR DESIGNER PATCH AND MATCH EXISTING FINISHES AS NEEDED FOR NEW CONSTRUCTION. PAINT ALL WALL MOUNTED GRILLES, VENTS, ELECTRICAL PANELS, ACCESS PANELS, ETC.
- TO MATCH ADJACENT WALL U.N.O. FINISH BEHIND FIXED EQUIPMENT SUCH AS CABINETRY, CASEWORK, CHALK AND TACK /
- MARKERBOARDS, LOCKERS ETC PROVIDE CONTINUOUS SEALANT AT ALL JOINTS OF DISSIMILAR MATERIALS, INCLUDING BUT NOT LIMITED TO, AT CASEWORK AND WALL
- SHOWN ON REFLECTED CEILING PLANS FOR REFERENCE ONLY. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. PATCH AND REPAIR ALL DEMO'ED, PENETRATED AND DAMAGED WALLS DUE TO ABOVE

KEYNOTE LEGEND

- REFER TO A000 FOR GENERAL NOTES
- PROVIDE CEMENTITIOUS FLOOR FILL MATERIAL AS REQUIRED TO CREATE SLOPING SUBSTRATE WITH A SLOPE NOT GREATER THAN 1/4"=1'-0" MAXIMUM SLOPE. PROVIDE FLUID APPLIED MEMBRANE BEFORE INSTALLING FINAL FLOOR FINISH MATERIAL.
- PROVIDE PENETRATION FIRESTOPPING SYSTEM AT NEW DRAIN LOCATION TO MAINTAIN THE ORIGINAL FIRE-RESISTANCE RATING CONSTRUCTION OF THE FLOOR PENETRATED. NEW FIRE RATED SHAFT WALL AND SOFFIT ABOVE CEILING FOR NEW MECHANICAL AIR SUPPLY AND RETURN DUCT CHASE.
- INSTALL NEW DISPOSABLE PRIVACY CURTAIN (PROVIDED BY OWNER) IN EXISTING CURTAIN PROVIDE NEW GYPSUM BOARD CEILING. ALIGN EXTENT OF NEW GYPSUM BOARD CEILING TO
- MATCH OUTSIDE LINE OF SHOWER TRENCH DRAIN BELOW. PAINT EP1. INSTALL NEW LAY-IN CEILING TILE (ARMSTRONG, CERAMAGUARD #605, WHITE, NON-PERFORATED) IN NEW GRID. INSTALLATION HEIGHT TO MATCH EXISTING.
- INSTALL SALVAGED LAY-IN CEILING TILES IN NEW GRID. NEW TILES REPLACING DAMAGED COORDINATE ABOVE CEILING WORK WITH LIFT RAIL SUPPORT TO ALLOW FUTURE PATIENT
- INFILL WALL CONSTRUCTION TO MATCH EXISTING WALL. ALIGN GYP. BD. ON BOTH SIDES. PATCH WALL, FLOORING, AND BASE AS REQUIRED TO MATCH ADJACENT AND RECEIVE NEW
- REF: T8221A FOR TYPICAL FINISHES & ELEVATIONS.
- REF: T8221 FOR TYPICAL FINISHES & ELEVATIONS. INSTALL NEW RIGID SHEET WALL PROTECTION PANEL IN COLOR & HEIGHT TO MATCH EXISTING, USING ALL STANDARD TRIM MOLDINGS.
- INSTALL NEW FIXED PLASTIC LAMINATE PANEL W/ PVC EDGEBAND ABOVE EXISTING CABINET DOORS TO CLOSE OPENING. LAMINATE (PL1) & EDGEBAND TO MATCH EXISTING. FIELD VERIFY
- NEW PLASTIC LAMINATE HEADWALL PANEL (PL2) IN EXISTING FRAME SYSTEM. UTILIZE ALL PREVIOUS DEVICE, MED GAS & OUTLET LOCATIONS. INSTALL NEW CUSTOMIZED 0.040 ANODIZED ALUMINUM SLOPED VALANCE ACCESSORY ON TOP OF EXISTING DOOR CLOSER LOCATED ABOVE DOOR FRAME. FINISH TO MATCH EXISTING
- NEW PLASTIC LAMINATE FOOTWALL PANEL (PL2) IN EXISTING FRAME SYSTEM. UTILIZE ALL EXISTING DEVICE & OUTLET LOCATIONS. INSTALL 3/4"X1 1/4" METAL ANGLE SCRIBE MOLDING TO COVER THE GAP BETWEEN THE TOP
- OF THE EXISTING CABINET AND CEILING. THE TRIM MATERIAL TO MATCH THE EXISTING HORIZONTAL METAL TRIM ON CASEWORK. NEW PLASTIC LAMINATE WALL PANEL, THICKNESS & FINISH TO MATCH EXISTING
- INFILL GAP LEFT FROM REMOVED REVEALS WITH METAL STRIP TO BE FLUSH WITH LAMINATE WALL PANELS. FINISH SHALL MATCH TOP TRIM. INSTALL NEW FLUSH-BACKS MATCHING EXISTING ON EACH SIDE/END OF THE EXISTING SINK COUNTER AFTER REMOVAL OF THE EXISTING WALL TILES. REUSE/RE-INSTALL THE EXISTING

FINISH REMARKS

MULTIPLE WALL FINISHES OCCUR, REF: ACCENT WALL LOCATIONS FOR COLOR. 4" INTEGRAL WALL BASE. REF: DETAIL 13/A118.

FINISH ABBREVIATIONS

* NOT ALL FINISHES LISTED ARE USED IN PROJECT

- ACB ACOUSTICAL CEILING ACOUSTICAL CEILING TILE ACCESS FLOORING ACOUSTICAL WALL CARPET BAMBOO FLOORING
- BLINDS BUMP RAIL CUBICLE CURTAIN
- CORNER GUARD CONCRETE MASONRY UNIT CAST STONE OR CULTURED CERAMIC TILE BASE
- CERAMIC TILE CRASH RAIL OR CHAIR RAIL DECORATIVE GLASS DECORATIVE GLASS FILM DECORATIVE PANEL EPOXY PAINT
- EPOXY RESIN BASE EPOXY RESIN FLOOR EXISTING TO REMAIN FIBER REINFORCED PANEL FABRIC WALLCOVERING
- GYP GYPSUM GYP BD GYPSUM BOARD GLASS TILE HANDRAIL LINOLEUM SHEET FLOORING LINOLEUM TILE FLOORING
- LUXURY VINYL TILE MARKER BOARD MOSAIC TILE MARKER WALLCOVERING PLASTIC LAMINATE
- TACKBOARD TACKABLE FABRIC TERRAZZO FLOORING TERRAZZO BASE TERRAZZO FLOOR TILE VINYL BASE VISION CONTROL FILM VINYL COMPOSITION TILE VINYL ENHANCED TILE

SHEET VINYL

SOLID VINYL TILE

PORCELAIN TILE BASE

RUBBER SHEET FLOORING

RUBBER TILE FLOORING

RESILIENT STAIR TREAD

SOUND-ABSORBING PANEL

STATIC DISSIPATIVE TILE

SOLID SURFACE WALL PANEL

STAINLESS STEEL BASE

STONE OR STONE VENEER

STONE SLAB WALL PANEL

SHEET WALL PROTECTION

SEALED CONCRETE

SHOWER CURTAIN

SOLID SURFACE BASE

SPECIALTY COATING

SOLID SURFACE SOLID SURFACE SINK

QUARTZ SURFACE

RESILIENT BASE

ROLLER SHADE

(SPEC 03300)

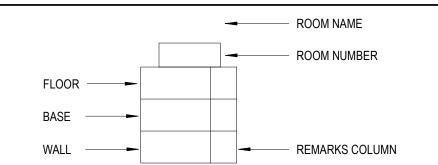
RUB RAIL

VINYL WALL COVERING WOOD BASE WOOD PANELING WOOD FLOORING WALL PROTECTION ASSEMBLY WALK-OFF MAT WVW WOOD VENEER WALLCOVERING

FLOOR TRANSITION INDICATOR

FLOOR FINISH AS INDICATED IN ROOM FINISH TAG FLOOR FINISH TRANSITION — X CPT2 — DIFFERING FLOOR FINISH

ROOM FINISH TAG LEGEND



NOTE: FINISHES INDICATED IN ROOM FINISH TAG ARE GENERAL OVERALL FINISHES FOR OOM UNLESS OTHERWISE NOTED BY NOTE, REMARK, DETAIL, AND/OR ELEVATION

SYMBOL INDICATES MATERIAL / PATTERN / GRAIN DIRECTION

WALL RATINGS

- 1-HOUR SMOKE BARRIER- (SB) 1-HOUR RATED FIRE - (1HR)
- 1-HOUR RATED FIRE + SMOKE BARRIER (1HRS)
- 2-HOUR RATED FIRE (2HR) 2-HOUR RATED FIRE + SMOKE BARRIER - (2HRS)
- 3-HOUR RATED FIRE (3HR)
- NOTE: RATING OF EXISTING WALLS IS ONLY SHOWN FOR PARTITION WALLS AT
- AND IMMEDIATE AREA OF WHERE THE EXTENT OF THE SCOPE WORK IS LOCATED

BSA LifeStructures 12645 Olive Boulevard, Suite 100

> ph 314.754.6306 Architectural Registration Number (Missouri) - 2017014317

Creve Coeur, MO 63141

MCCLUREENGINEERING

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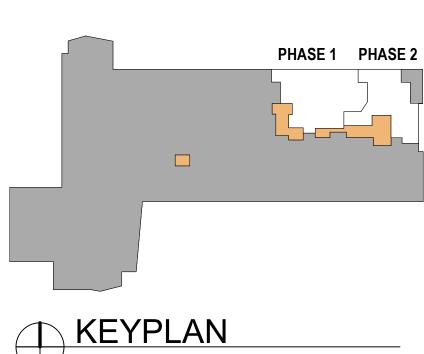
MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT

RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



PLAN NORTH MARK DATE DESCRIPTION 1 05/31/2024 ADDENDUM #1



8TH FLOOR - NEW WORK PLANS, ELEVATIONS & **DETAIL**

BSALS PROJECT NO.

					· 	Seismic Desig	gn Category:	С
MECHANICAL AND			•			Seismic Si	te Class:	С
COMPONENTS EARTHO	AUAN	E LO	AD R	E313	IANCE	Risk Ca	tegory	IV
	_	e to Floors, s, etc.	Sway E	Bracing		ofessionally Sealed Sway Bracing Details		
Listing of Equipment and System Components	Not Provided for Project	Provided for Project	Not Provided for Project	Provided for Project	On Const. Documents Drawing No. or Spec. Section	SUBSEQUENT SUBMITTAL Separate Permit & Plans	EXEMPTIONS	COMMENTS / NOTES
FIRE PRO	TECTION,	DETECTIO	N & ALAR	M EQUIPM	ENT & SYSTEM C	OMPONENTS; IP = 1.5		
Fire Sprinkler Piping	Х			X		X		
(High Deformability Piping Systems) Welded, Brazed, Soldered and Flanged Steel and Copper Piping Suspended From Structure								
Steel / Copper Piping	Х			X		Х		
(Limited Deformability Piping Systems) Threaded and Grooved Steel and Copper Piping Suspended From Structure								
Steel / Copper Piping	Х			X		Х		
(Low Deformability Piping Systems) Cast Iron and Nonductile Plastic Piping Systems or Any System Joined with Cast Iron Fittings								
Cast Iron / PVC Piping	Х			Х		X		
	HAZA	RDOUS E	QUIPMENT	& SYSTE	M COMPONENTS;	IP = 1.5		
High Deformability Piping Systems or Limited Deformability Piping Systems								
Hazardous Medical Gas Piping ≤ 2" , Supported Overhead	Х		Х				5	
Hazardous Medical Gas Piping > 2" , Supported Overhead	Х			Х		Х		
	OTHER	GENERAL	EQUIPME	NT & SYST	EM COMPONENTS	S; IP = 1.5		_
Floor Mounted: AHU			X			~		
Piping Suspended From Structure:		X	^			X		
Steel / Copper / Cast Iron / PVC - hangers ≤ 12"	Х		Х				5	
(High Deformability Piping Systems) Welded, Brazed, Soldered and Flanged Steel and Copper Piping Suspended From Structure								
Steel / Copper Piping - larger than 2" Steel / Copper Piping - 2" and smaller - hangers ≤ 12"	X		X	X		X	5	
_(Limited Deformability Piping Systems) Threaded and Grooved Steel and Copper Piping								
Steel / Copper Piping - larger than 2"	Х			Х		Х	_	
Steel / Copper Piping - 2" and smaller - hangers ≤ 12" (Low Deformability Piping Systems) Cast Iron and Nonductile Plastic Piping Systems or Any System Joined with Cast Iron Fittings	X		X				5	
Cast Iron / PVC Piping	Х			X		X		
Ductwork Suspended From Structure:								
Ductwork < 6 sq. ft. X-section AND ≤ 20 lb/ft AND provisions made to avoid impacts of other mechanical components	Х		Х				4	
Ductwork > 6 sq. ft. X-section OR > 20 lb/ft OR ductwork could be impacted by other components	Х			х		Х		
Equipment Supported By A Suspended Ceiling: Air Devices < 20 lbs	X			X		X		1
Equipment Suspended From Structure:	,,			,		<u>, </u>		
Air Devices ≥ 20 lbs, < 56 lbs	X			X		X		1,2
Air Devices ≥ 56 lbs In-line components	X			X		X		1,3
FCU, VAV, FTU	X			X		X		
Duct Mounted Reheat Coils/Control Dampers	X			X		X		
Return Fans	Х			Х		Х		
Preheat Coil Pump In-line components > 75 lbs	X		Х	X		X		
Wall mounted equipment:	^			^		^		
Fire dampers, louvers		Х				Х		

* applies to equipment and devices directly attached to structure

Sheet	Discipline	System	Area(s) Affected	Shutdown Location	Outage Time Of Day	Estimated Outage Duration	Description
MD309, M309	Mechanical	Chilled Water	Areas served by AHU-3,4,5,& 6	PT9001 MECH PENTHOUSE	Off Hours - OAT shall be 50°F or below for duration of outage.	6 hours	emp shutdown for tie-in of piping relocated to accommodate new ductwork. New piping shall be nstalled prior to shutdown to limit duration.
MD309, M309	Mechanical	Heating Water	Areas served by AHU-3,4,5,& 6	PT9001 MECH PENTHOUSE	Off Hours - OAT shall be 40°F or above for duration of outage.	6 hours	Temp shutdown for tie-in of piping relocated to accommodate new ductwork. New piping shall be installed prior to shutdown to limit duration.
MD309, M309	Mechanical	Steam	Areas served by AHU-3,4,5,& 6	PT9001 MECH PENTHOUSE	Off Hours - OAT shall be 40°F or above for duration of outage.	6 hours	Temp shutdown for tie-in of piping relocated to accommodate new ductwork. New piping shall be installed prior to shutdown to limit duration.
MD108, M108	Mechanical	Medical Gas	8th floor PCT ZV-801, ZV-802, ZV-804, ZV-805	PT8240 WKST-TEAM	Normal Hours	6 hours	Temp shutdown for medical gas reconnection to new zone valve box ZV-805. New valve box shall be installed and piped to above ceiling prior to shutdown to minimize duration.
MD108, M108	Mechanical	Medical Gas	ZV-805	PT8262 EQUIP	Normal Hours	24 hours	emp shutdown for relocation of med gas piping to accommodate new ductwork within patient ooms. Occurs downstream of ZV-805.
MD208,	Plumbing	Plumbing	8th floor PCT	PTC8101	Off Hours - Between 10 PM and 4 AM	4-8 hours each	ntermittent shutdowns of hot water and cold water for relocation of piping throughout work area to
MD208, M208	Plumbing	Plumbing	8th floor PCT	PTC8101	Off Hours - Between 10 PM and 4 AM	4-8 hours	Temp shutdown of hot water and cold water for relocation of piping mains to accommodate new ductwork in corridor.
MD308, M308	Mechanical	HVAC - AHU-5	Areas served by AHU-5	PT9001 MECH PENTHOUSE	Off Hours	8 hours	Temp shutdown to connect supply and return flex ducts to serve phase 2 areas and to connect new RA duct main into existing RA duct main on 8th floor. New RA main serving areas south of scope area shall be installed prior to shutdown to minimize duration.
MD308, M309	Mechanical	Heating Water	8th floor PCT	TC8202B Corridor	Off Hours - OAT shall be 40°F or above for duration of outage.	-	During HW shutdown, install service valves on HW piping to each patient room to prevent system HW shutdowns with each patient room VAV relocation scope.
M808, M809	Mechanical	Fire Protection	8th floor and Penthouse PCT	PTS8002 STAIR 2 and PT9001 MECH PENTHOUSE	Normal Hours	6 hours	Temp shutdown for relocation of fire protection piping to accommodate new ductwork.
E309	Electrical	Emergency Equipment Branch Power	Panels AEDP-3, EMCC-1, AE9A, E9P1, E9P1A	PT9001 MECH PENTHOUSE	Off Hours - Thursday nights 10PM to 4 AM	8 hours	hut down panel AEDP-3 to terminate new panel loads serving AHU-51.

1. THIS MATRIX IS INTENDED TO CONVEY MAJOR SYSTEM SHUTDOWNS AFFECTING MULTIPLE AREAS OF THE CAMPUS. THIS MATRIX DOES NOT INDICATE ALL SHUTDOWNS OR PHASING REQUIRED AS PART OF PROJECT SCOPE.

2. DUE TO PHASING OF PROJECT CONSTRUCTION, MULTIPLE SHUTDOWNS OF THE SAME SYSTEM MAY BE REQUIRED AT SEVERAL POINTS DURING CONSTRUCTION.

3. DURING BIDDING CONTRACTOR SHALL REVIEW PROPOSED SHUTDOWN DURATIONS AND ALERT OWNER AND ARCHITECT/ENGINEER OF POTENTIAL CONCERNS. 4. CONTRACTOR SHALL ACCOUNT FOR COMMISSIONING OF NEW SWITCH BOARDS IF THE TIE DIFFERENTIAL REQUIRES BOTH BOARDS TO BE DOWN AT THE SAME TIME

5. EACH NDP SHALL HAVE A TIE BREAKER CREATING A MAIN-TIE-MAIN SETUP.

GENERAL NOTES:

A. It is the basic intent of this Code Block to declare whether or not anchorage and sway bracing is being provided on the project. If so, to declare whether or not the details are shown on the plans or will be shown on a subsequent submission. If seismic restraint of a component is not required by code this should be stated in comments. If seismic restraint, which is not required by code, is being provided due to owner/designer requirements this should also be stated in the comments.

B. Plans signed and sealed by a Professional Engineer along with a separate permit application need to be submitted to the AHJ a minimum of two weeks prior to the planned installation to allow for plan review and distribution to the inspector. Additional time may be needed if such submissions are deficient. C. All anchors and attachments to structure shall be seismically rated and listed.

COMMENTS/NOTES:

1. Shall be positively attached to the ceiling grid using four approved attachment devices.

2. Shall have two No. 12 gauge wires connecting opposite corners of the air device to the structure above.

SEISMIC DESIGN REQ	UIREMENT EXEMPTIONS FOR MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS							
	1) Seismic Design Category A, B.							
4 0 15 % (200505450)	2) Seismic Design Category C and the component importance factor IP = 1.0 provided that EITHER 1)The component is positively attached to the structure, or 2) The component weights 20 lbs. or less, or 5 lbs./ft or less for distributed systems.							
1 - General Exemptions (ASCE 07-16 Chap 13.1.4)	3) Seismic Design Category D, E, or F that are positively attached to the structure and EITHER: 1) The component weights 400 lbs. or less, the center of mass is located 4 ft or less above the adjacent floor, flexible connections are provided between the component and associated ductwork, piping, and conduit, and the component IP = 1.0, OR 2) The component weights 20 lbs. or less, or 5 lbs./ft or less for distributed systems.							
	1) Not connected to ducts or piping, supported by chains or otherwise suspended from the structure, provided ALL of the following criteria A. through C. below are met:							
2 - Light Fixture, Sign and Ceiling Fan Exemptions (ASCE 07-16 Chap 13.6.1)	A. The design load for such items shall be equal to 1.4 times the operating weight acting down with a simultaneous horizontal load equal to 1.4 times the operating weight. The horizontal load shall be applied in the direction that results in the most critical loading for design.							
	B. Seismic interaction effects shall be considered per Section 13.2.3 of ASCE 7-16.							
	C. The connection to the structure shall allow a 360 degree range of motion in the horizontal plane.							
	1) Raceways with IP = 1.0 where flexible connections or other assemblies are provided between the cable tray or raceway and associated components to accommodate the relative displacement, where the cable tray or raceway is positively attached to the structure, and where ON of items A. through D. below apply:							
	A. Trapeze assemblies with 3/8 in. diameter rod hangers not exceeding 12 in. length and the total weight supported by any single trapeze is 10 lbs. or less.							
3 - Distribution Systems: Conduit, Cable Tray, and Raceways Exemptions (ASCE 07-16 Chap 13.6.5.1)	B. Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 12 in. in length and the total weight supported by any single trapeze is 200 lbs. or less.							
	C. Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 24 in. in length and the total weight supported by any single trapeze is 100 lbs. or less.							
	D. Individual rod hangers 3/8 in. or 1/2 in. diameter and each hanger is 12 in. or less in length and the total weight per any single rod is 50 lbs. less.							
	2) Conduit less than 2.5 in. trade size.							
	Ducts not part of hazardous exhaust systems or fire protection systems such as smoke control or evacuation systems when EITHER 1) or 2) belonging the protection of the protec							
	1) IP = 1.0 where flexible connections or other assembles are provided to accommodate the relative displacement between the duct associated components, the duct system is positively attached to the structure, and where ONE of items A. through D. below apply:							
	A. Trapeze assemblies with 3/8 in. diameter rod hangers not exceeding 12 in. length and the total weight supported by any single trapeze is lest than 10 lbs./ft							
	B. Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 12 in. in length and the total weight supported by any single trapeze is 200 lbs. or less.							
4 - Duct System Exemptions (ASCE 07-16 Chap 13.6.6)	C. Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 24 in. in length and the total weight supported by any single trapeze is 100 lbs. or less.							
	D. Individual rod hangers 3/8 in. or 1/2 in. diameter and each hanger is 12 in. or less in length and the total weight per any single rod is 50 lbs. less.							
	2) Locations where provisions are made to avoid impact with other ducts or mechanical components or to protect the ducts in the event of suci impact, the distribution system is positively attached to the structure, and HVACR ducts have a cross-sectional area of less that 6 sq. ft and weight 20 lbs./ft or less.							
	3) Components installed in line with duct systems with an operating weight of 75 lbs. or less (terminal units, dampers, louvers, and diffusers) the are independently braced or positively attached to the ductwork with mechanical fasteners on both sides.							
	Piping systems where flexible connections, expansion loops, or other assemblies are provided to accommodate the relative displacement between component and piping, where the piping system is positively attached to the structure and where ONE of items 1 through 7 below apply:							
	1) Trapeze assemblies are used to support piping whereby no single pipe exceeds the limits set forth in 5A, 5B, or 5C. below and the total weig of the piping supported by the trapeze assemblies is less that 10 lbs./ft							

with other structural or non-structural components or to protect piping in the event of such impact, or pipes with IP = 1.0 are supported by individual rod hangers 3/8 in. or 1/2 in. in diameter; where each hanger is 12 in. or less and the total weight supported by any single hanger is 50 lbs. or less. Pipe size limitations in items 5A, 5B, and 5C below apply: 5A) Seismic Design Category C where IP > 1.0 nominal pipe size shall be 2 in. or less 5B) Seismic Design Category D, E, or F where IP > 1.0 nominal pipe size shall be 1 in. or less

1. Flexible connections are not required for connections to appliances or electrical or plumbing fixtures that are mounted to walls or floors.

including fire protection systems installed per NFPA exceeds the limits set forth in 5A, 5B, or 5C below, and the total weight supported by any single trapeze is 100 lbs. or less.

5C) Seismic Design Category D, E, or F where IP = 1.0 nominal pipe size shall be 3 in. or less 6) Pneumatic tube systems supported with trapeze assemblies using 3/8 in. diameter rod hangers not exceeding 12 in. and the total weight

2) Trapeze assemblies with 3/8 in. diameter rod hangers not exceeding 12 in. length, do not support piping with IP > 1.0, and no single pipe

3) Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 12 in. length, do not support piping with IP > 1.0, and no single pipe

4) Trapeze assemblies with 1/2 in. diameter rod hangers not exceeding 24 in. length, do not support piping with IP > 1.0, and no single pipe

5) Piping that has an RP in ASCE 7-16 Table 13.6-1 of 4.5 or greater is either supported by rod hangers and provisions are made to avoid impact

exceeds the limits set forth in 5A, 5B, or 5C below, and the total weight supported by any single trapeze is 100 lbs. or less.

exceeds the limits set forth in 5A, 5B, or 5C below, and the total weight supported by any single trapeze is 200 lbs. or less.

supported by any single trapeze is 100 lbs. or less. 7) Pneumatic tube systems supported with trapeze assemblies using 3/8 in. or 1/2 in. diameter rod hangers not exceeding 12 in. and the total weight supported by any single rod is 50 lbs. or less.

a. The following sanitary, drain, waste and vent pipe: Schedule 40 PVC, 6" or less in diameter; Schedule 80 PVC, 4" or less in diameter; service weight and no hub cast iron, 2" or less in diameter. b. The following storm drain pipe: Schedule 40 and 80 PVC, 3" or less in diameter; service weight and no hub cast iron, not applicable. c. The following water pipe: Type L & M copper, 2-1/2" or less in diameter; Schedule 40 and 80 CPVC, 3" or less in diameter.

d. The following electrical conduit: Rigid steel and intermediate metal conduit (IMC), 1-1/2" and less in diameter; EMT conduit and rigid aluminum conduit 2" and less in diameter.

e. Flexible electrical wiring methods weighing 5 lbs./ft or less.

2. Distribution systems would include the following code complying components:

5 - Piping and Tubing Distribution Systems (not

13) (ASCE 07-16 Chap 13.6.7.3)



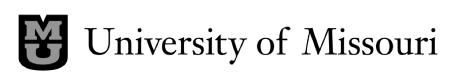
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Architectural Registration Number (Missouri) - 2017014317

McClureEngineering MCCLURE ENGINEERING

1000 CLARK AVE. ST. LOUIS, MO 63102

ph: 314.645.6232 Engineering Registration Number (Missouri) - 000087

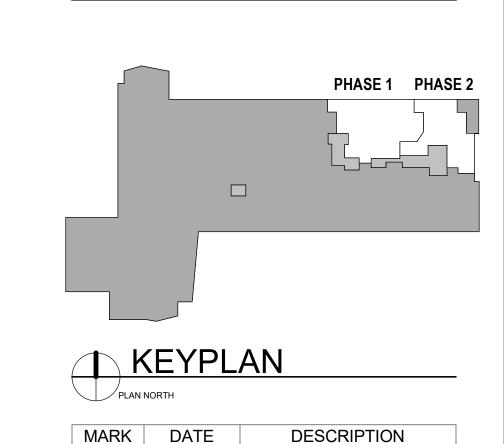


MU PROJECT #: CP221933

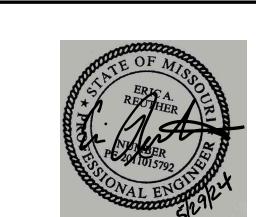
PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF

BID SET



1 5/31/2024 ADDENDUM #1



ERIC A. REUTHER

SEISMIC CODE BLOCK SCHEDULE

09 MAY, 2024 MCCLURE PROJECT NO.

SHUTDOWN/SEQUENCING NOTES: 1. NEW ZONE VALVE BOX AND PIPING SHALL BE INSTALLED PRIOR TO DEMOLITION OF EXISTING ZONE VALVE BOX. REFER TO M108. COORDINATE MVB INSTALLATION WITH

DOOR DEMOLITION SUCH THAT ACCESS TO THE ROOM IS

COORDINATION DRAWINGS: DETAILED COORDINATION DRAWINGS ARE REQUIRED, 1 SET FOR THE PENTHOUSE SCOPE AND 1 SET FOR THE 8TH FLOOR SCOPE. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.

MECHANICAL KEYED NOTES:

DEMOLISH EXISTING ZONE VALVE BOX. REFER TO M108 FOR NEW VALVE BOX LOCATION. DEMOLISH MEDICAL GAS PIPING ABOVE CEILING AND

DROPS IN AREA SHOWN. 3 REWORK MEDICAL GAS PIPING ABOVE CEILING TO

ACCOMMODATE NEW HVAC SCOPE.

MECHANICAL GENERAL NOTES:

1. THESE DRAWINGS WERE PREPARED UTILIZING EXISTING DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK. NOTIFY CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES.

2. CONTRACTOR SHALL TAKE EXTREME CARE HANDLING MATERIAL DEBRIS IN AN EFFORT TO AVOID ANY DISRUPTIONS OF ONGOING BUILDING OPERATIONS. PROJECT SHALL BE CLEANED FREE OF DUST AND DEBRIS AT THE END OF THE WORK DAY.

3. CONTRACTOR SHALL COORDINATE ANY SHUTDOWN OF UTILITIES WITH THE OWNER'S REPRESENTATIVE. NOTICE FOR SHUTDOWN SHALL BE GIVEN TO THE OWNER AT LEAST THREE DAYS

4. CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES PRIOR TO BEGINNING

5. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR FIELD COORDINATION AND DIMENSIONAL VERIFICATION AS SPECIFIED IN THE PROJECT MANUAL.

6. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS AND ALL LOCAL CODES.

7. ALL WORK SHALL BE INSTALLED TO ALLOW 24" CLEAR ACCESS PATHWAY TO VAV CONTROL PANELS. 8. REFER TO ARCHITECTURAL SHEETS FOR PHASING CONSTRUCTION BOUNDARIES.

9. VAV CONTROLLERS AND THEMOSTATS SHALL BE REMOVED BY OWNER PRIOR TO DEMOLITION WORK. NOTIFY OWNER PRIOR TO START OF DEMOLITION.

10. PIPING IN MECHANICAL ROOM SHALL HAVE COLOR CODED PVC JACKETING. REFER TO SPECIFICATION SECTION 20 25 14 FOR ADDITIONAL INFORMATION.

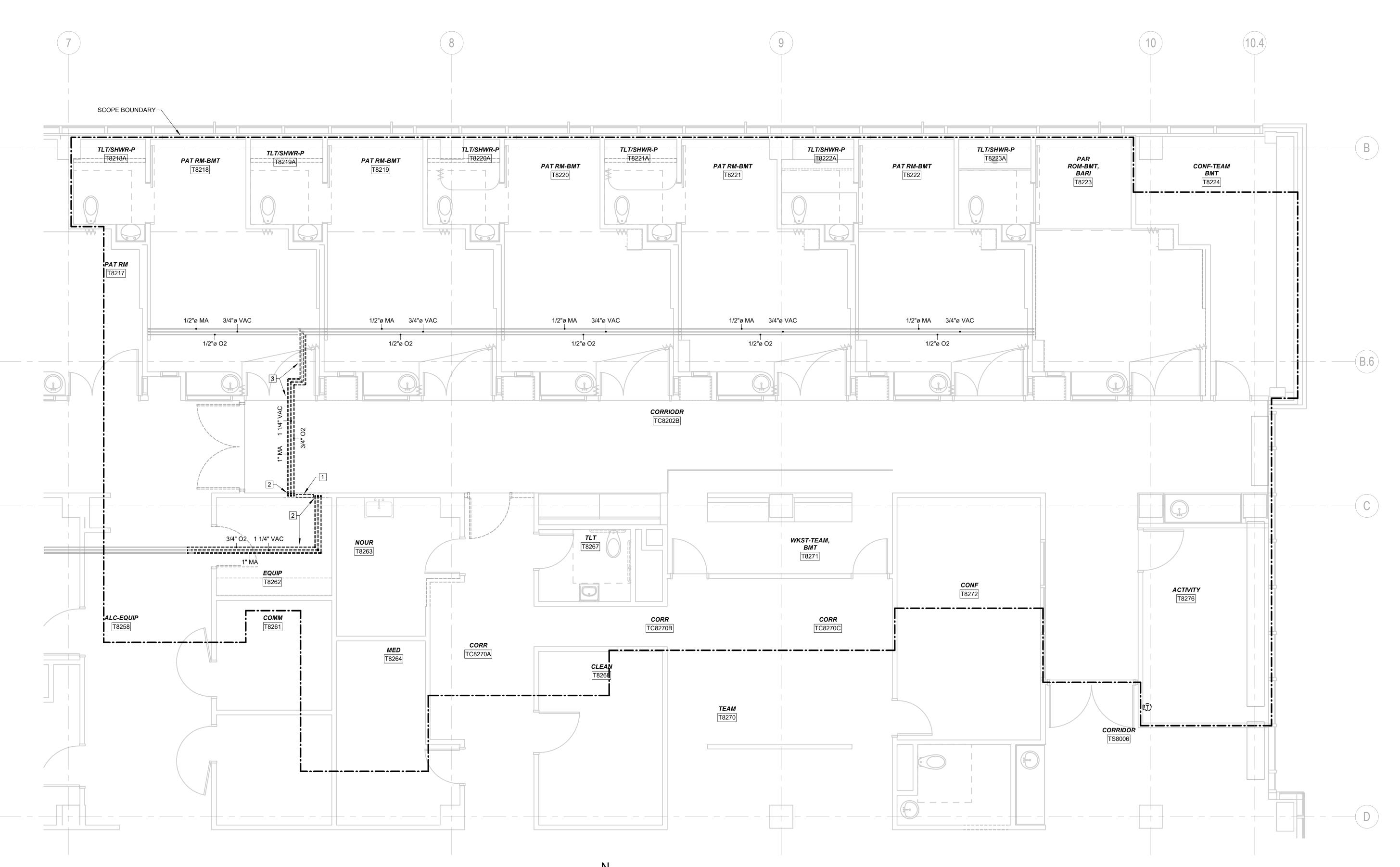
11. NEW AND EXISTING WALL PENETRATIONS IN PATIENT ROOMS SHALL BE SEALED TO MAINTAIN MINIMUM 0.01 IN. W.C. POSITIVE PRESSURE RELATIVE TO THE CORRIDOR. BLOWER DOOR TESTING REQUIRED PRIOR TO CEILING INSTALLATION, REFER TO SPECIFICATIONS.

12. CONTRACTOR SHALL COORDINATE PENETRATIONS WITH UL FIRESTOP DETAIL WHERE REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

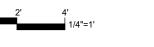
13. CONTRACTOR SHALL ENSURE FC BUS REMAINS INTACT THROUGHOUT CONSTRUCTION.

14. ALL EXISTING AND NEW DUCTWORK SHALL BE SEALED WHILE NOT BEING CONNECTED TO OR ACTIVELY INSTALLED. EXISTING DUCTWORK SHALL BE CLEANED AND ALL DUCTWORK SHALL MAINTAIN CLEANLINESS THROUGHOUT CONSTRUCTION. CLEANLINESS THROUGHOUT CONSTRUCTION. 15. ALL EXISTING DEVICES TO REMAIN IN PLACE SHALL BE COVERED AND SEALED THROUGHOUT CONSTRUCTION TO BE PROTECTED FROM DEBRIS AND DIRT.

16. ALL EXISTING DEVICES TO BE REMOVED AND REINSTALLED SHALL BE STORED SAFELY AND PROTECTED THROUGHOUT CONSTRUCTION. DEVICES SHALL BE CLEANED PRIOR TO REINSTALLATION.



MECHANICAL MED GAS EIGHTH FLOOR PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"



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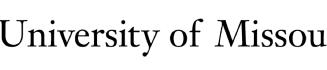
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McClureEngineering MCCLURE ENGINEERING 1000 CLARK AVE.

ST. LOUIS, MO 63102

ph: 314.645.6232

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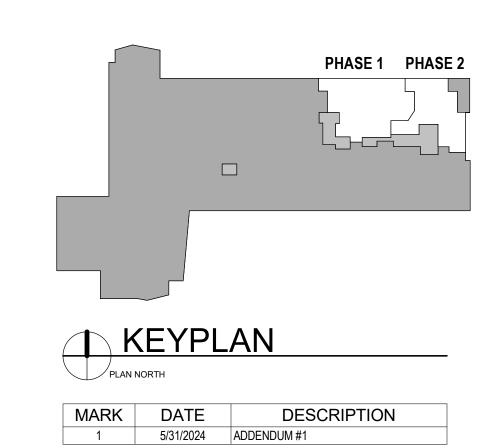


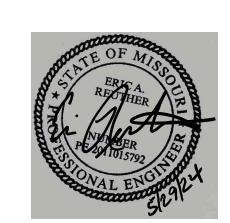
MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET





ERIC A. REUTHER PE-2011015792

EIGHTH FLOOR MED GAS PLAN - DEMOLITION

MCCLURE PROJECT NO.

09 MAY, 2024

MD108

COORDINATION DRAWINGS:

DETAILED COORDINATION DRAWINGS ARE REQUIRED, 1 SET FOR THE PENTHOUSE SCOPE AND 1 SET FOR THE 8TH FLOOR SCOPE. REFER

AND INFORMATION.

TO SPECIFICATIONS FOR ADDITIONAL DETAIL

PLUMBING KEYED NOTES:

DEMOLISH TRENCH DRAIN AND EXISTING TRAP FROM SHOWER. PREPARE WASTE PIPE FOR NEW SHOWER DRAIN.

SEE NEW WORK.

2 DEMOLISH PORTION OF 4" VENT LINE TO ACCOMMODATE NEW DUCTWORK. COORDINATE WITH MECHANICAL

3 REMOVE EXISTING DOMESTIC WATER PIPING TO ALLOW FOR DUCTWORK MODIFICATIONS. COORDINATE WITH MECHANICAL CONTRACTOR. SEE NEW WORK.

CONTRACTOR. SEE NEW WORK.

4 DEMOLISH EXISTING SHOWER WAND FROM SHOWERS.

5 DEMOLISH EXISTING FAUCET AND HANDLES FROM LAVATORIES.

6 DEMOLISH EXISTING FILTERS AND PREPARE FOR NEW PIPING TO RECONNECT. SEE NEW WORK.

7 REMOVE EXISTING WATER CLOSET AND STORE SAFELY FOR REINSTALLATION.

PLUMBING GENERAL NOTES:

1. FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES.
FURNISH AND INSTALL WATER HAMMER ARRESTORS PER PDI WH201 AND AS INDICATED ON
DRAWINGS, INSTALL VALVES IN ACCESSIBLE LOCATIONS. IF LOCATION IS NOT READILY ACCESSIBLE,
COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR.

2. ALL PIPING SHALL BE CONCEALED IN CHASE, WALL, CEILING, FLOORING, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OUTSIDE OF WALL FOR CLARITY ONLY.

3. EQUIPMENT AND FIXTURE SYMBOLOGY ON PLANS MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS AND SCHEDULES FOR FIXTURE OR EQUIPMENT TYPE.

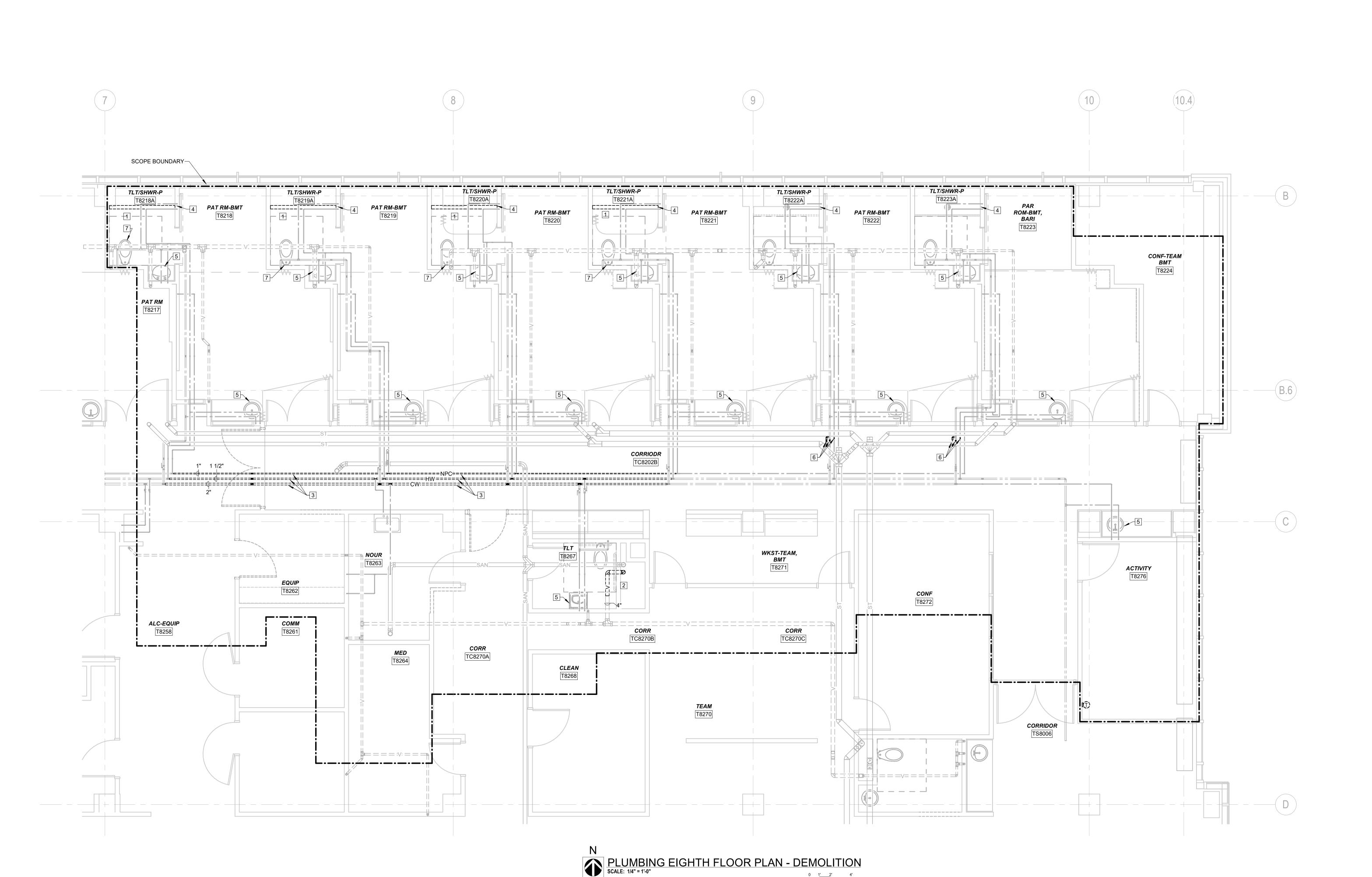
4. LOCATIONS OF FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. INDICATED ON THESE DRAWINGS ARE CONSIDERED APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FINAL AND EXACT LOCATIONS WITH ALL OTHER TRADES AND EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION. DRAINS, ETC. NOT CORRECTLY LOCATED AS DETERMINED BY THE ARCHITECT/ENGINEER/OWNER, SHALL BE REMOVED AND RELOCATED AT THIS CONTRACTOR'S EXPENSE.

5. NEW AND EXISTING WALL PENETRATIONS IN PATIENT ROOMS SHALL BE SEALED TO MAINTAIN MINIMUM 0.01 IN. W.C. POSITIVE PRESSURE RELATIVE TO THE CORRIDOR.

6. CONTRACTOR SHALL COORDINATE PENETRATIONS WITH UL FIRESTOP DETAIL WHERE REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

7. ALL EXISTING DEVICES TO REMAIN IN PLACE SHALL BE COVERED AND SEALED THROUGHOUT CONSTRUCTION TO BE PROTECTED FROM DEBRIS AND DIRT.

8. ALL EXISTING DEVICES TO BE REMOVED AND REINSTALLED SHALL BE STORED SAFELY AND PROTECTED THROUGHOUT CONSTRUCTION. DEVICES SHALL BE CLEANED PRIOR TO



BSA LifeStructures

BSA LifeStructures 12645 Olive Boulevard, Suite 100 Creve Coeur, MO 63141 ph 314.754.6306

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ph: 314.645.6232

Engineering Registration Number (Missouri) - 000087

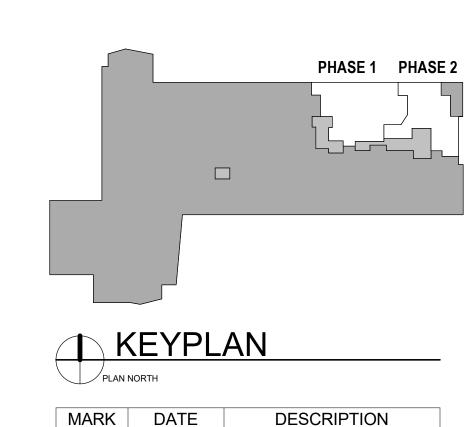


MU PROJECT #: CP221933

PATIENT CARE
TOWER - 8TH
FLOOR BONE
MARROW
TRANSPLANT UNIT
RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

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1 5/31/2024 ADDENDUM #1

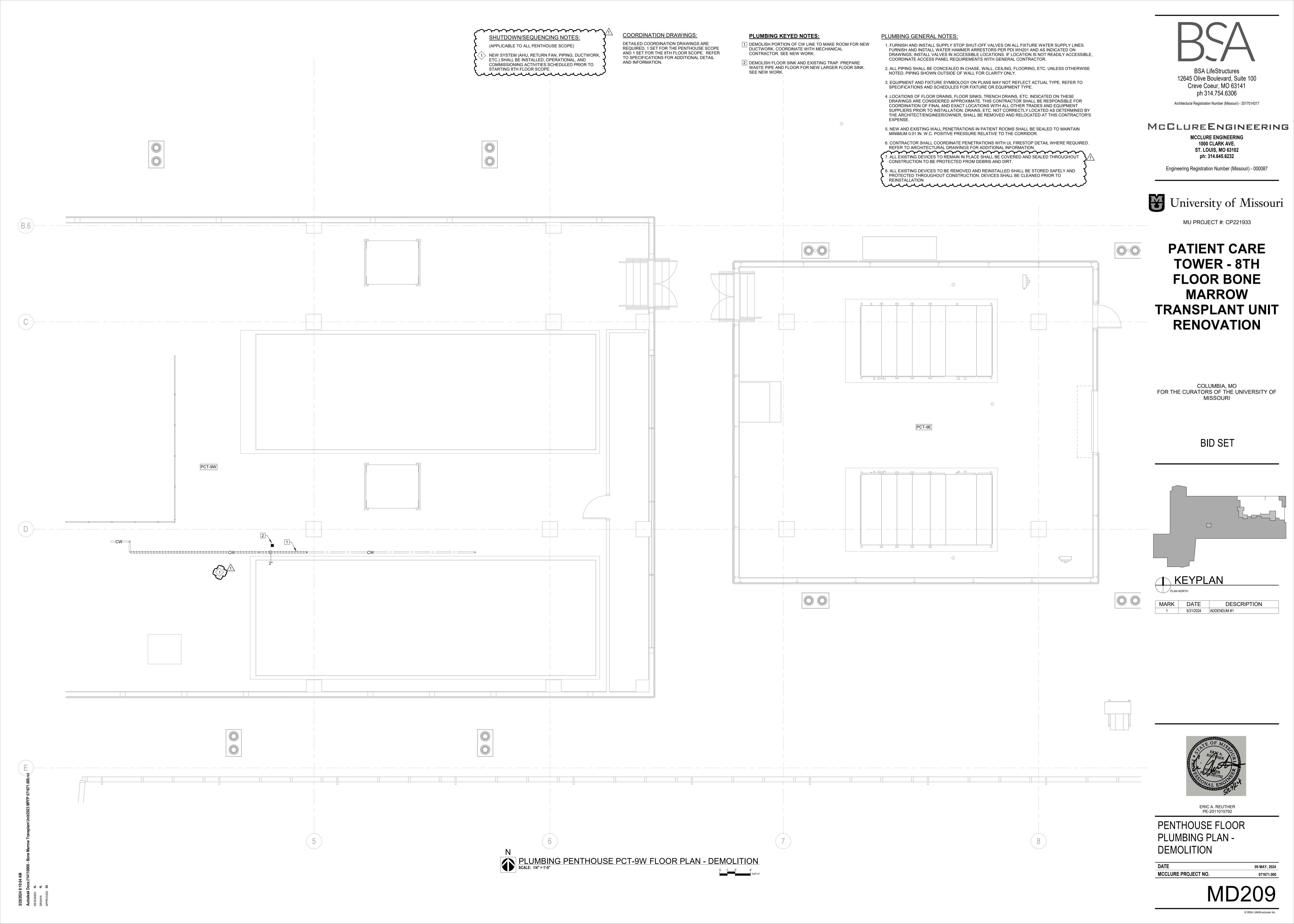


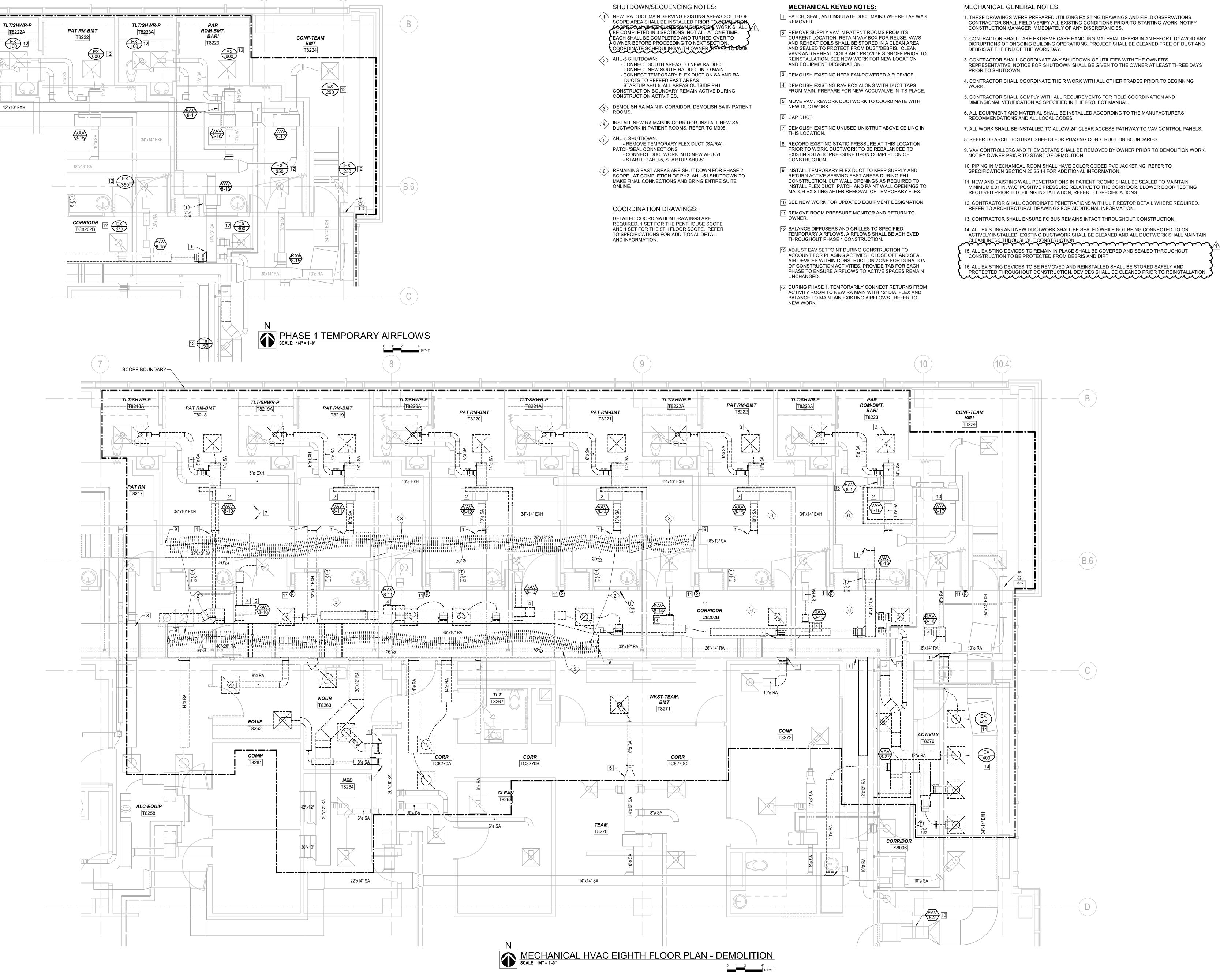
ERIC A. REUTHER PE-2011015792

EIGHTH FLOOR PLUMBING PLAN - DEMOLITION

DATE
MCCLURE PROJECT NO.

MD208





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Creve Coeur, MO 63141 ph 314.754.6306

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ST. LOUIS, MO 63102

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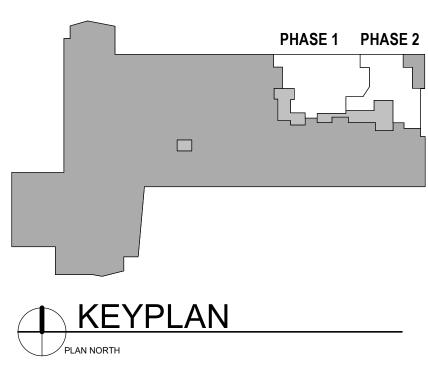
MU PROJECT #: CP221933

PATIENT CARE

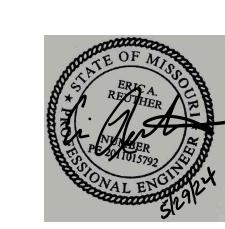
TOWER - 8TH FLOOR BONE MARROW TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



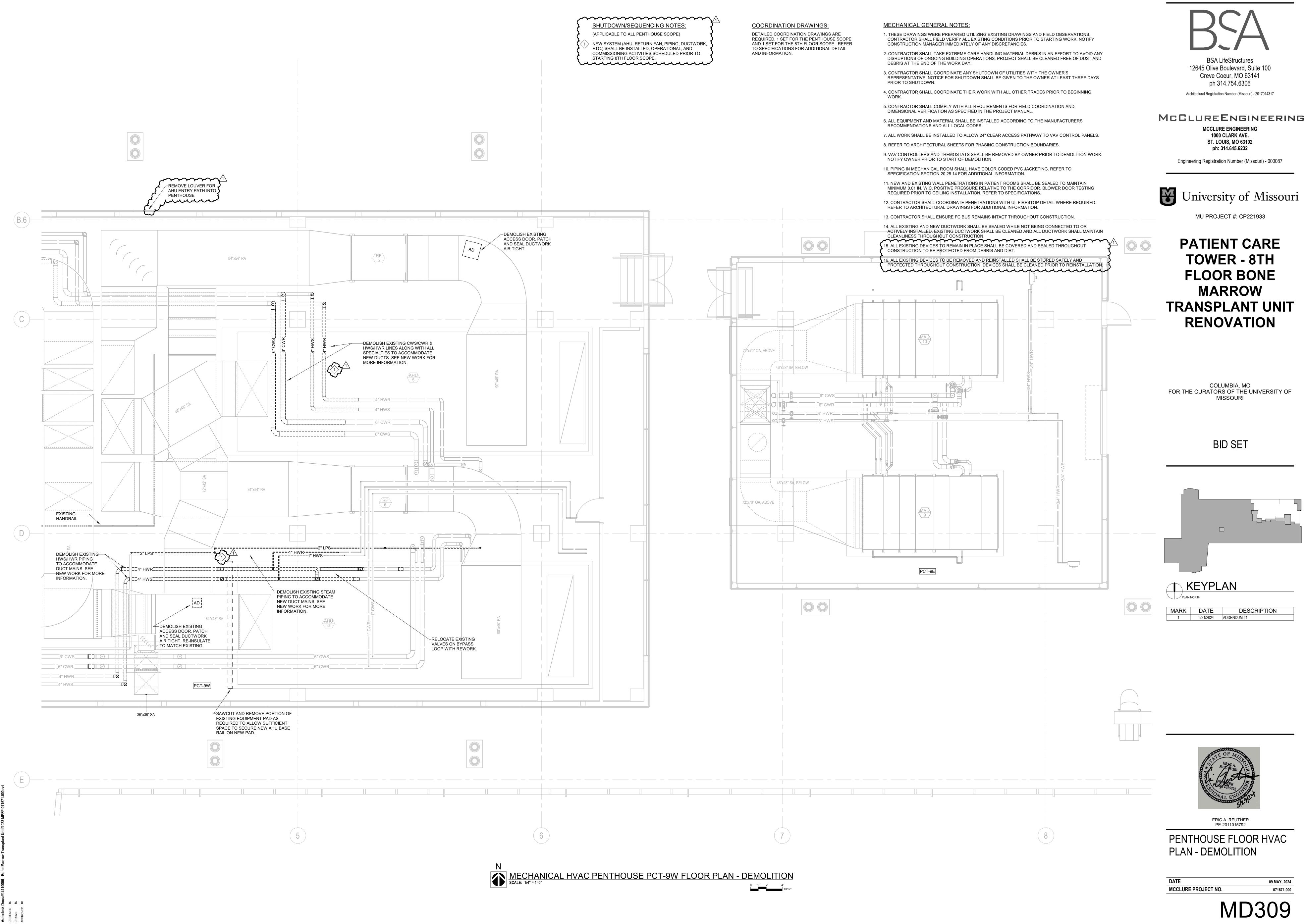
MARK DATE DESCRIPTION 1 5/31/2024 ADDENDUM #1



ERIC A. REUTHER

EIGHTH FLOOR HVAC PLAN - DEMOLITION

MCCLURE PROJECT NO.



SHUTDOWN/PHASING NOTES:

1. NEW ZONE VALVE BOX AND PIPING SHALL BE INSTALLED TO ABOVE CEILING PRIOR TO MEDICAL GAS SHUTDOWN TO MINIMIZE DURATION. COORDINATE MVB INSTALLATION WITH DOOR DEMOLITION SUCH THAT ACCESS TO THE ROOM IS

2 INSTALL NEW ZONE VALVE BOX IN WALL WHERE DOOR WAS REMOVED. BOX SHALL BE ACCESSIBLE FROM WEST SIDE OF WALL. 3 REWORK MEDICAL GAS PIPING ABOVE CEILING TO

ACCOMMODATE NEW HVAC SCOPE.

COORDINATION DRAWINGS:

DETAILED COORDINATION DRAWINGS ARE REQUIRED, 1 SET FOR THE PENTHOUSE SCOPE AND 1 SET FOR THE 8TH FLOOR SCOPE. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.

MECHANICAL KEYED NOTES:

EXISTING AREA ALARM TO REMAIN. 1. THESE DRAWINGS WERE PREPARED UTILIZING EXISTING DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK. NOTIFY

MECHANICAL GENERAL NOTES:

CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES. 2. CONTRACTOR SHALL TAKE EXTREME CARE HANDLING MATERIAL DEBRIS IN AN EFFORT TO AVOID ANY

DISRUPTIONS OF ONGOING BUILDING OPERATIONS. PROJECT SHALL BE CLEANED FREE OF DUST AND DEBRIS AT THE END OF THE WORK DAY.

3. CONTRACTOR SHALL COORDINATE ANY SHUTDOWN OF UTILITIES WITH THE OWNER'S REPRESENTATIVE. NOTICE FOR SHUTDOWN SHALL BE GIVEN TO THE OWNER AT LEAST THREE DAYS

4. CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES PRIOR TO BEGINNING

DIMENSIONAL VERIFICATION AS SPECIFIED IN THE PROJECT MANUAL. 6. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS

5. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR FIELD COORDINATION AND

RECOMMENDATIONS AND ALL LOCAL CODES. 7. ALL WORK SHALL BE INSTALLED TO ALLOW 24" CLEAR ACCESS PATHWAY TO VAV CONTROL PANELS. 8. REFER TO ARCHITECTURAL SHEETS FOR PHASING CONSTRUCTION BOUNDARIES.

9. VAV CONTROLLERS AND THEMOSTATS SHALL BE REMOVED BY OWNER PRIOR TO DEMOLITION WORK. NOTIFY OWNER PRIOR TO START OF DEMOLITION.

10. PIPING IN MECHANICAL ROOM SHALL HAVE COLOR CODED PVC JACKETING. REFER TO SPECIFICATION SECTION 20 25 14 FOR ADDITIONAL INFORMATION.

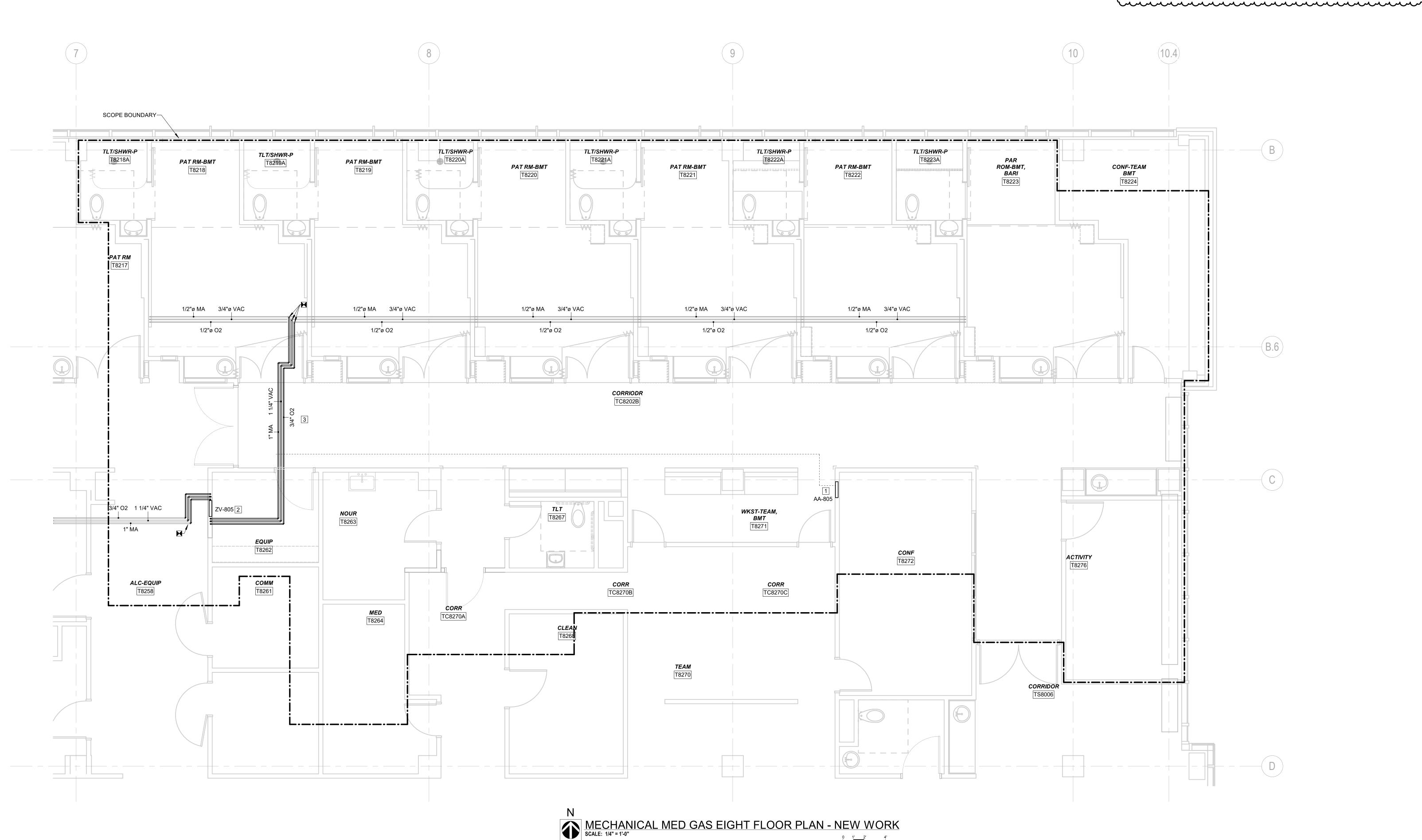
11. NEW AND EXISTING WALL PENETRATIONS IN PATIENT ROOMS SHALL BE SEALED TO MAINTAIN MINIMUM 0.01 IN. W.C. POSITIVE PRESSURE RELATIVE TO THE CORRIDOR. BLOWER DOOR TESTING REQUIRED PRIOR TO CEILING INSTALLATION, REFER TO SPECIFICATIONS.

12. CONTRACTOR SHALL COORDINATE PENETRATIONS WITH UL FIRESTOP DETAIL WHERE REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

13. CONTRACTOR SHALL ENSURE FC BUS REMAINS INTACT THROUGHOUT CONSTRUCTION.

14. ALL EXISTING AND NEW DUCTWORK SHALL BE SEALED WHILE NOT BEING CONNECTED TO OR ACTIVELY INSTALLED. EXISTING DUCTWORK SHALL BE CLEANED AND ALL DUCTWORK SHALL MAINTAIN CLEANLINESS THROUGHOUT CONSTRUCTION. 15. ALL EXISTING DEVICES TO REMAIN IN PLACE SHALL BE COVERED AND SEALED THROUGHOUT

CONSTRUCTION TO BE PROTECTED FROM DEBRIS AND DIRT. 16. ALL EXISTING DEVICES TO BE REMOVED AND REINSTALLED SHALL BE STORED SAFELY AND PROTECTED THROUGHOUT CONSTRUCTION. DEVICES SHALL BE CLEANED PRIOR TO REINSTALLATION.



BSA LifeStructures 12645 Olive Boulevard, Suite 100 Creve Coeur, MO 63141 ph 314.754.6306

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McClureEngineering MCCLURE ENGINEERING 1000 CLARK AVE.

ST. LOUIS, MO 63102

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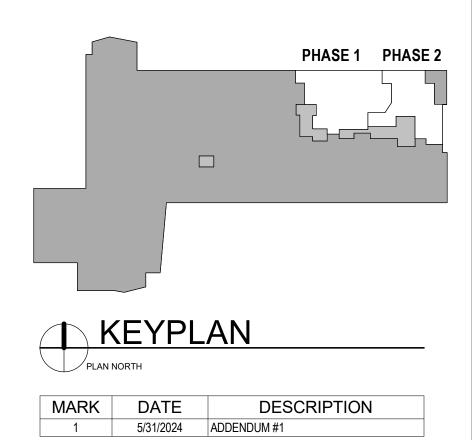
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MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET





ERIC A. REUTHER PE-2011015792

EIGHTH FLOOR MED GAS PLAN - NEW WORK

MCCLURE PROJECT NO.

M108

COORDINATION DRAWINGS:

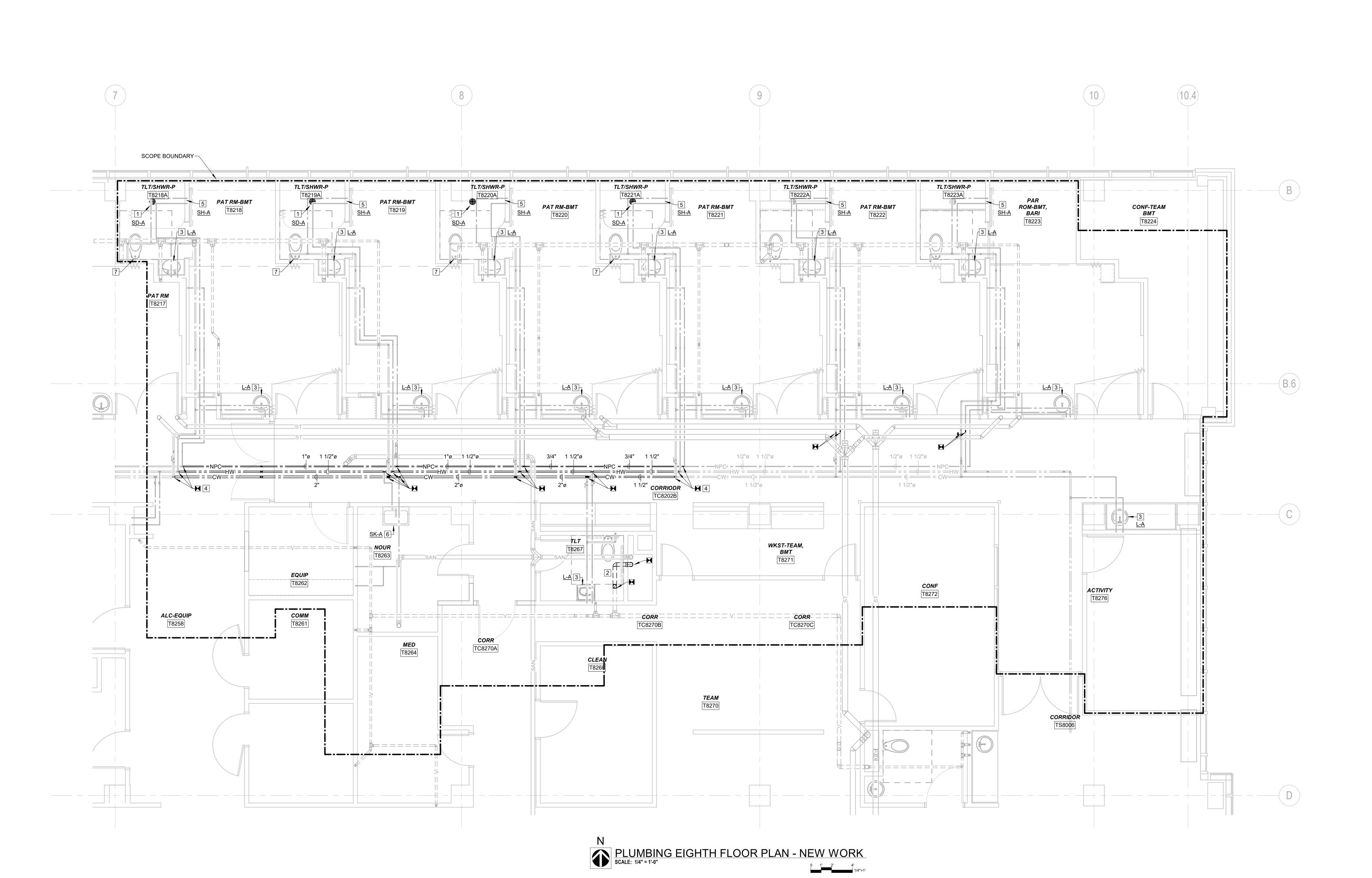
DETAILED COORDINATION DRAWINGS ARE REQUIRED, 1 SET FOR THE PENTHOUSE SCOPE AND 1 SET FOR THE 8TH FLOOR SCOPE. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.

PLUMBING KEYED NOTES:

- 1 PROVIDE AND INSTALL NEW SHOWER DRAIN IN EACH SHOWER AS SHOWN. REWORK WASTE PIPING TO ACCOMODATE NEW SHOWER DRAIN AND TRAP.
- 2 REWORK ABOVE CEILING 4" VENT LINE TO NEW LOWER ELEVATION TO ALLOW FOR NEW DUCTWORK. COORDINATE WITH MECHANICAL CONTRACTOR.
- 3 PROVIDE AND INSTALL NEW FAUCET WITH LOCAL DOMESTIC WATER FILTRATION.
- 4 INSTALL DOMESTIC WATER PIPING IN NEW LOCATION TO ALLOW FOR INSTALLATION OF NEW DUCTWORK. COORDINATE ROUTING, HANGERS, AND INSTALLATION SEQUENCE WITH MECHANICAL CONTRACTOR.
- 5 PROVIDE AND INSTALL NEW SHOWER WAND WITH LOCAL DOMESTIC WATER FILTRATION.
- 6 PROVIDE AND INSTALL LOCAL DOMESTIC WATER FILTER ON SINK TRIM.
- 7 REINSTALL EXISTING WATER CLOSET.

- PLUMBING GENERAL NOTES:
- 1. FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES. FURNISH AND INSTALL WATER HAMMER ARRESTORS PER PDI WH201 AND AS INDICATED ON DRAWINGS, INSTALL VALVES IN ACCESSIBLE LOCATIONS. IF LOCATION IS NOT READILY ACCESSIBLE, COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR.
- 2. ALL PIPING SHALL BE CONCEALED IN CHASE, WALL, CEILING, FLOORING, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OUTSIDE OF WALL FOR CLARITY ONLY.
- 3. EQUIPMENT AND FIXTURE SYMBOLOGY ON PLANS MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS AND SCHEDULES FOR FIXTURE OR EQUIPMENT TYPE.
- 4. LOCATIONS OF FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. INDICATED ON THESE DRAWINGS ARE CONSIDERED APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FINAL AND EXACT LOCATIONS WITH ALL OTHER TRADES AND EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION. DRAINS, ETC. NOT CORRECTLY LOCATED AS DETERMINED BY THE ARCHITECT/ENGINEER/OWNER, SHALL BE REMOVED AND RELOCATED AT THIS CONTRACTOR'S EXPENSE.
- 5. NEW AND EXISTING WALL PENETRATIONS IN PATIENT ROOMS SHALL BE SEALED TO MAINTAIN MINIMUM 0.01 IN. W.C. POSITIVE PRESSURE RELATIVE TO THE CORRIDOR.
- 6. CONTRACTOR SHALL COORDINATE PENETRATIONS WITH UL FIRESTOP DETAIL WHERE REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. λ 7. ALL EXISTING DEVICES TO REMAIN IN PLACE SHALL BE COVERED AND SEALED THROUGHOUT • CONSTRUCTION TO BE PROTECTED FROM DEBRIS AND DIRT.
- 8. ALL EXISTING DEVICES TO BE REMOVED AND REINSTALLED SHALL BE STORED SAFELY AND PROTECTED THROUGHOUT CONSTRUCTION. DEVICES SHALL BE CLEANED PRIOR TO

REINSTALLATION.



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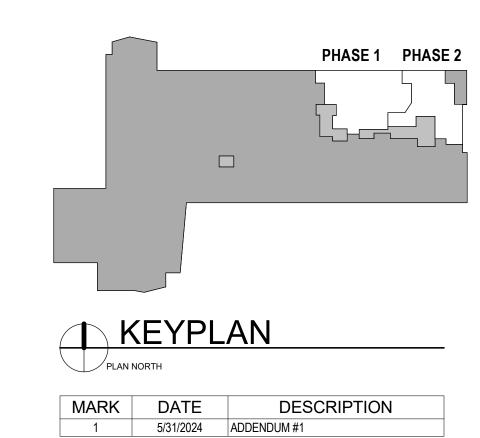


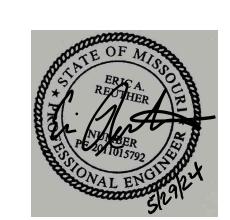
PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

MU PROJECT #: CP221933

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET





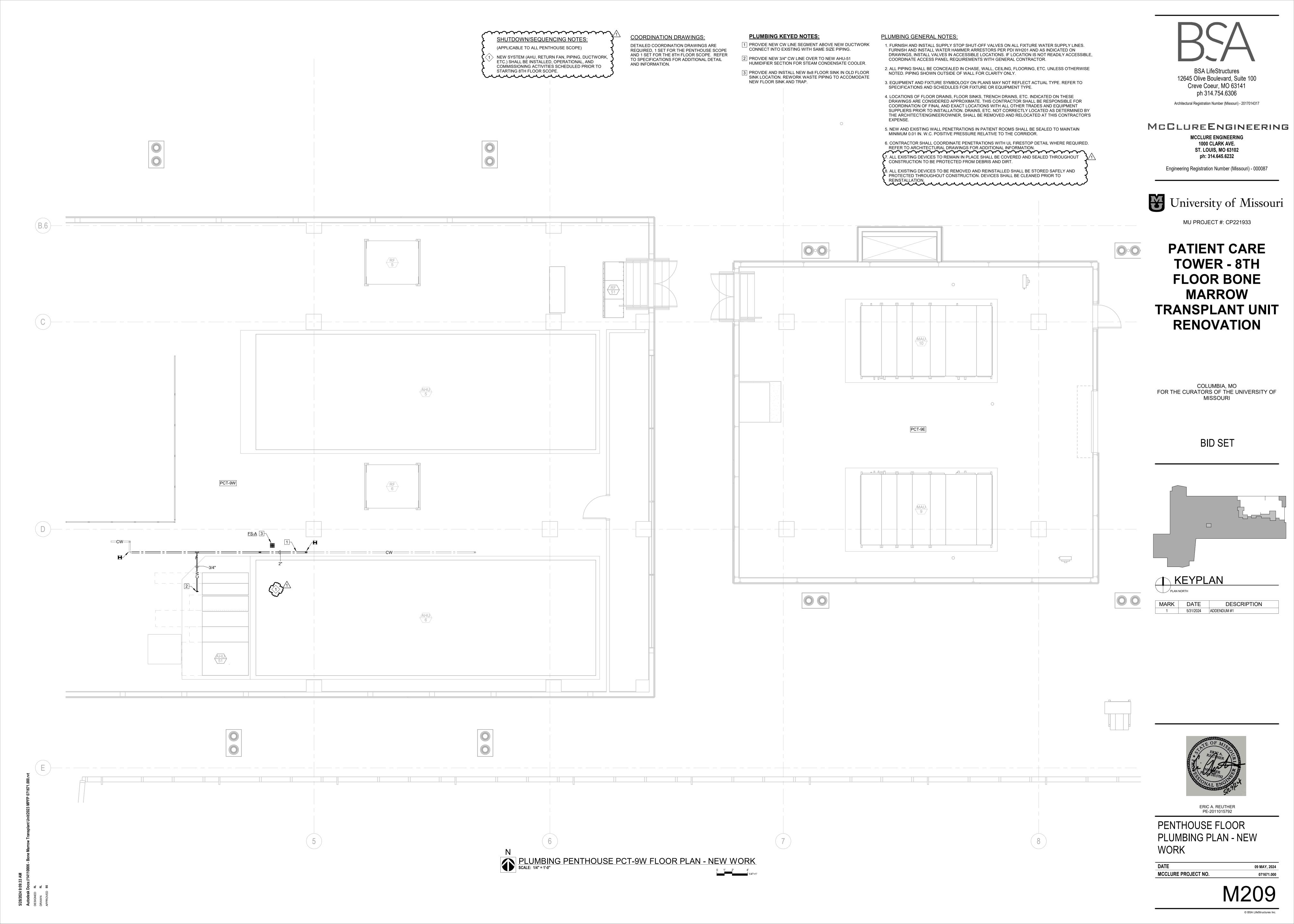
ERIC A. REUTHER PE-2011015792

EIGHTH FLOOR PLUMBING PLAN - NEW WORK

09 MAY, 2024

M208

MCCLURE PROJECT NO.



SHUTDOWN/SEQUENCING NOTES: 1 NEW RA DUCT MAIN SERVING EXISTING AREAS SOUTH OF SCOPE AREA SHALL BE INSTALLED PRIOR TO DEMOLITION BE COMPLETED IN 3 SECTIONS, NOT ALL AT ONE TIME. * EACH SHALL BE COMPLETED AND TURNED OVER TO 🚶 OWNER BEFORE PROCEEDING TO NEXT SECTION. COORDINATE SCHEDULING WITH OWNER.

2 AHU-5 SHUTDOWN: - CONNECT SOUTH AREAS TO NEW RA DUCT - CONNECT NEW SOUTH RA DUCT INTO MAIN - CONNECT TEMPORARY FLEX DUCT ON SA AND RA DUCTS TO REFEED EAST AREAS - STARTUP AHU-5, ALL AREAS OUTSIDE PH1 CONSTRUCTION BOUNDARY REMAIN ACTIVE DURING CONSTRUCTION ACTIVITIES.

 $\langle 3 \rangle$ DEMOLISH RA MAIN IN CORRIDOR, DEMOLISH SA IN PATIENT

4 NSTALL NEW RA MAIN IN CORRIDOR, INSTALL NEW SA DUCTWORK IN PATIENT ROOMS.

(5) AHU-5 SHUTDOWN: - REMOVE TEMPORARY FLEX DUCT (SA/RA), PATCH/SEAL CONNECTIONS - CONNECT DUCTWORK INTO NEW AHU-51 - STARTUP AHU-5, STARTUP AHU-51

 $\langle 6
angle$ REMAINING EAST AREAS ARE SHUT DOWN FOR PHASE 2 SCOPE. AT COMPLETION OF PH2, AHU-51 SHUTDOWN TO MAKE FINAL CONNECTIONS AND BRING ENTIRE SUITE

COORDINATION DRAWINGS:

26"x13" SA

TLT/SHWR-P

T8221A

TC8270B

T8268

TLT/SHWR-P

T8220A

PAT RM-BMT

34"x12" EXH

DETAILED COORDINATION DRAWINGS ARE REQUIRED, 1 SET FOR THE PENTHOUSE SCOPE AND 1 SET FOR THE 8TH FLOOR SCOPE. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAIL AND INFORMATION.

TLT/SHWR-P

T8222A

18"x16" RA

TC8270C

MECHANICAL KEYED NOTES:

1 CAPPED DUCT PROVIDED FOR FUTURE DISTRIBUTION. 2 ROUTE NEW RETURN DUCT TO REFEED ROOMS OUTSIDE

BONE MARROW TRANSPLANT SUITE BOUNDARY. S SPACE TO BE SERVED BY NEW BMT AHU. REWORK DUCTWORK TO CONNECT TO NEW RETURN VAV FOR

RETURN CONTROL AND SUITE PRESSURIZATION CONTROL.

4 SPACE TO BE SERVED BY NEW BMT AHU. REWORK DUCTWORK TO CONNECT TO SUPPLY VAV.

5 INSTALL EXISTING SUPPLY VAV IN ITS NEW LOCATION AND INSTALL NEW SUPPLY AIR DEVICE OVER BED. CLEAN VAVS AND REHEAT COILS AND PROVIDE SIGNOFF PRIOR TO REINSTALLATION.

6 INSTALL NEW PRESSURE MONITORING DEVICE FOR PATIENT ROOM. POSITIVE PRESSURE 0.01" W.C. SHALL BE MAINTAINED WITHIN EACH PATIENT ROOM. FC BUS SHALL BE REROUTED WITHOUT SPLICES.

7 REPLACE EXISTING RAV WITH NEW ACCUVALVE.

8 MOVE VAV / REWORK DUCTWORK TO COORDINATE WITH NEW DUCTWORK.

9 COORDINATE NEW DUCTWORK IN ROOM WITH EXISTING UNISTRUT TO ALLOW FUTURE PATIENT LIFT IN ROOM.

PROVIDE NEW MANUAL BALANCE DAMPER AND SET TO MAINTAIN PRESSURE RECORDED PRIOR TO CONSTRUCTION.

PIPING TO EACH RADIANT CEILING PANEL. 12 INSTALL SERVICE VALVES DURING HW SHUTDOWN TO

PREVENT SYSTEM HW SHUTDOWNS WITH EACH PATIENT ROOM VAV RELOCATION.

11 ALTERNATE #1: ROUTE NEW BRANCH 1/2" HEATING WATER

13 INSTALL BUILDING PRESSURE SENSOR FOR BMT SUITE. REFERENCE ADJACENT CORRIDOR PRESSURE.

14 BALANCE EXISTING EAVS AS NOTED IN VARIABLE AIR VOLUME UNIT SCHEDULE.

15 DURING PHASE 1, TEMPORARILY CONNECT RETURNS FROM ACTIVITY ROOM TO NEW RA MAIN WITH 12" DIA. FLEX AND BALANCE TO MAINTAIN EXISTING AIRFLOWS.

TLT/SHWR-P

T8223A

18"x13" SA

ROM-BMT, BARI

10"ø RA

MECHANICAL GENERAL NOTES:

1. THESE DRAWINGS WERE PREPARED UTILIZING EXISTING DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK. NOTIFY CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES.

2. CONTRACTOR SHALL TAKE EXTREME CARE HANDLING MATERIAL DEBRIS IN AN EFFORT TO AVOID ANY DISRUPTIONS OF ONGOING BUILDING OPERATIONS. PROJECT SHALL BE CLEANED FREE OF DUST AND DEBRIS AT THE END OF THE WORK DAY.

3. CONTRACTOR SHALL COORDINATE ANY SHUTDOWN OF UTILITIES WITH THE OWNER'S REPRESENTATIVE. NOTICE FOR SHUTDOWN SHALL BE GIVEN TO THE OWNER AT LEAST THREE DAYS

PRIOR TO SHUTDOWN. 4. CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES PRIOR TO BEGINNING

5. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR FIELD COORDINATION AND

DIMENSIONAL VERIFICATION AS SPECIFIED IN THE PROJECT MANUAL. 6. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS AND ALL LOCAL CODES.

7. ALL WORK SHALL BE INSTALLED TO ALLOW 24" CLEAR ACCESS PATHWAY TO VAV CONTROL PANELS. 8. REFER TO ARCHITECTURAL SHEETS FOR PHASING CONSTRUCTION BOUNDARIES.

9. VAV CONTROLLERS AND THEMOSTATS SHALL BE REMOVED BY OWNER PRIOR TO DEMOLITION WORK. NOTIFY OWNER PRIOR TO START OF DEMOLITION. 10. PIPING IN MECHANICAL ROOM SHALL HAVE COLOR CODED PVC JACKETING. REFER TO

SPECIFICATION SECTION 20 25 14 FOR ADDITIONAL INFORMATION.

11. NEW AND EXISTING WALL PENETRATIONS IN PATIENT ROOMS SHALL BE SEALED TO MAINTAIN MINIMUM 0.01 IN. W.C. POSITIVE PRESSURE RELATIVE TO THE CORRIDOR. BLOWER DOOR TESTING REQUIRED PRIOR TO CEILING INSTALLATION, REFER TO SPECIFICATIONS.

12. CONTRACTOR SHALL COORDINATE PENETRATIONS WITH UL FIRESTOP DETAIL WHERE REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

13. CONTRACTOR SHALL ENSURE FC BUS REMAINS INTACT THROUGHOUT CONSTRUCTION.

CONSTRUCTION TO BE PROTECTED FROM DEBRIS AND DIRT.

(10.4)

14. ALL EXISTING AND NEW DUCTWORK SHALL BE SEALED WHILE NOT BEING CONNECTED TO OR ACTIVELY INSTALLED. EXISTING DUCTWORK SHALL BE CLEANED AND ALL DUCTWORK SHALL MAINTAIN CLEANLINESS THROUGHOUT CONSTRUCTION. A CLEANLINESS I FIROUGI LOUI CONSTITUTION. 15. ALL EXISTING DEVICES TO REMAIN IN PLACE SHALL BE COVERED AND SEALED THROUGHOUT

16. ALL EXISTING DEVICES TO BE REMOVED AND REINSTALLED SHALL BE STORED SAFELY AND PROTECTED THROUGHOUT CONSTRUCTION. DEVICES SHALL BE CLEANED PRIOR TO REINSTALLATION.

BSA LifeStructures 12645 Olive Boulevard, Suite 100 Creve Coeur, MO 63141

ph 314.754.6306 Architectural Registration Number (Missouri) - 2017014317

McClureEngineering **MCCLURE ENGINEERING**

1000 CLARK AVE.

ST. LOUIS, MO 63102

ph: 314.645.6232

Engineering Registration Number (Missouri) - 000087

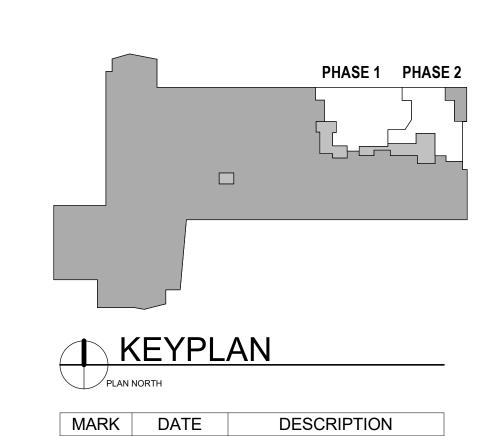


MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

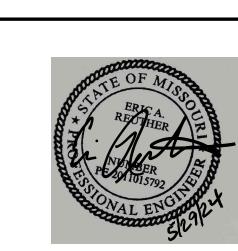
COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



1 5/31/2024 ADDENDUM #1

DESCRIPTION



ERIC A. REUTHER

EIGHTH FLOOR HVAC PLAN - NEW WORK

MCCLURE PROJECT NO.

M308

09 MAY, 2024

MECHANICAL HVAC EIGHTH FLOOR PLAN - NEW WORK
SCALE: 1/4" = 1'-0"

TEAM T8270

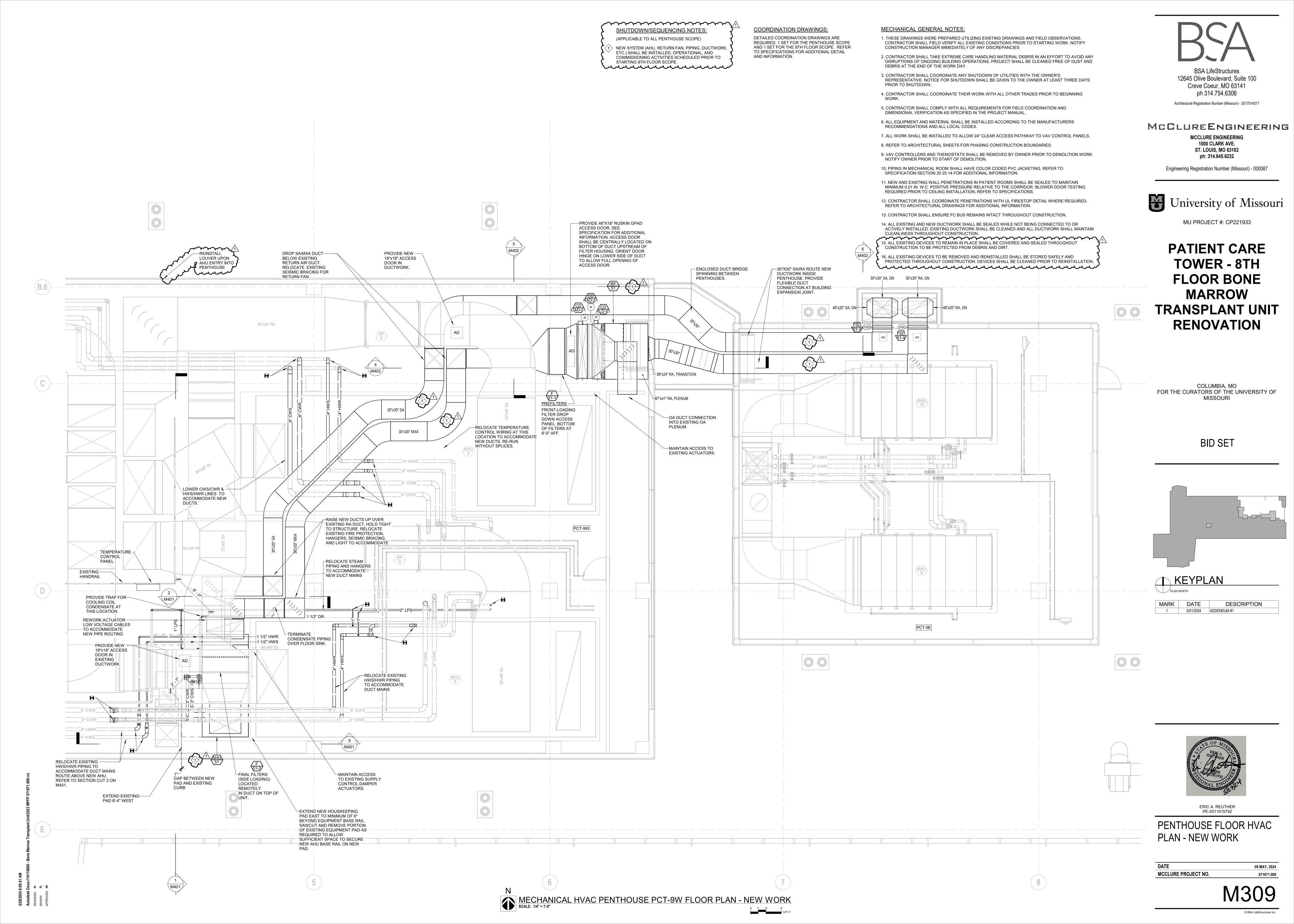
SCOPE BOUNDARY

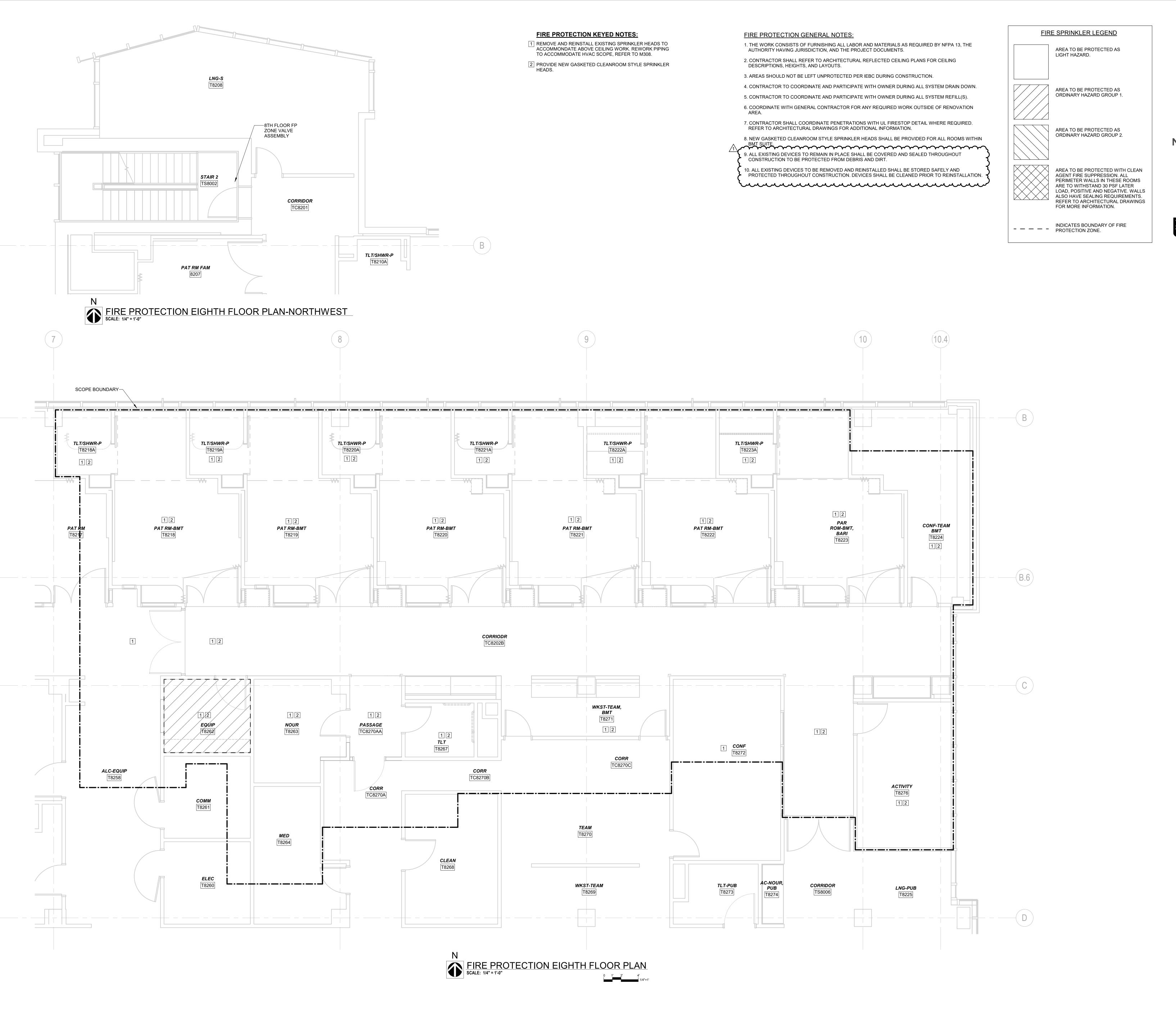
TLT/SHWR-P

T8218A

46"x20" RA

ALC-EQUIP





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Architectural Registration Number (Missouri) - 2017014317

ph 314.754.6306

McClureEngineering MCCLURE ENGINEERING 1000 CLARK AVE. ST. LOUIS, MO 63102 ph: 314.645.6232

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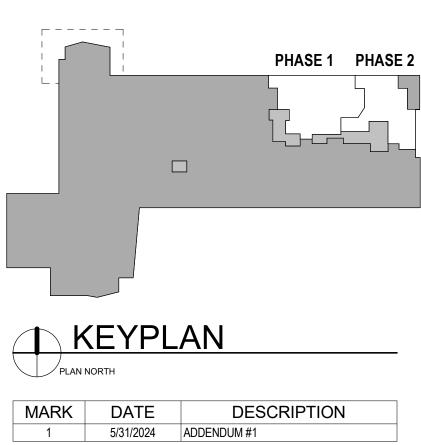
University of Missouri

MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



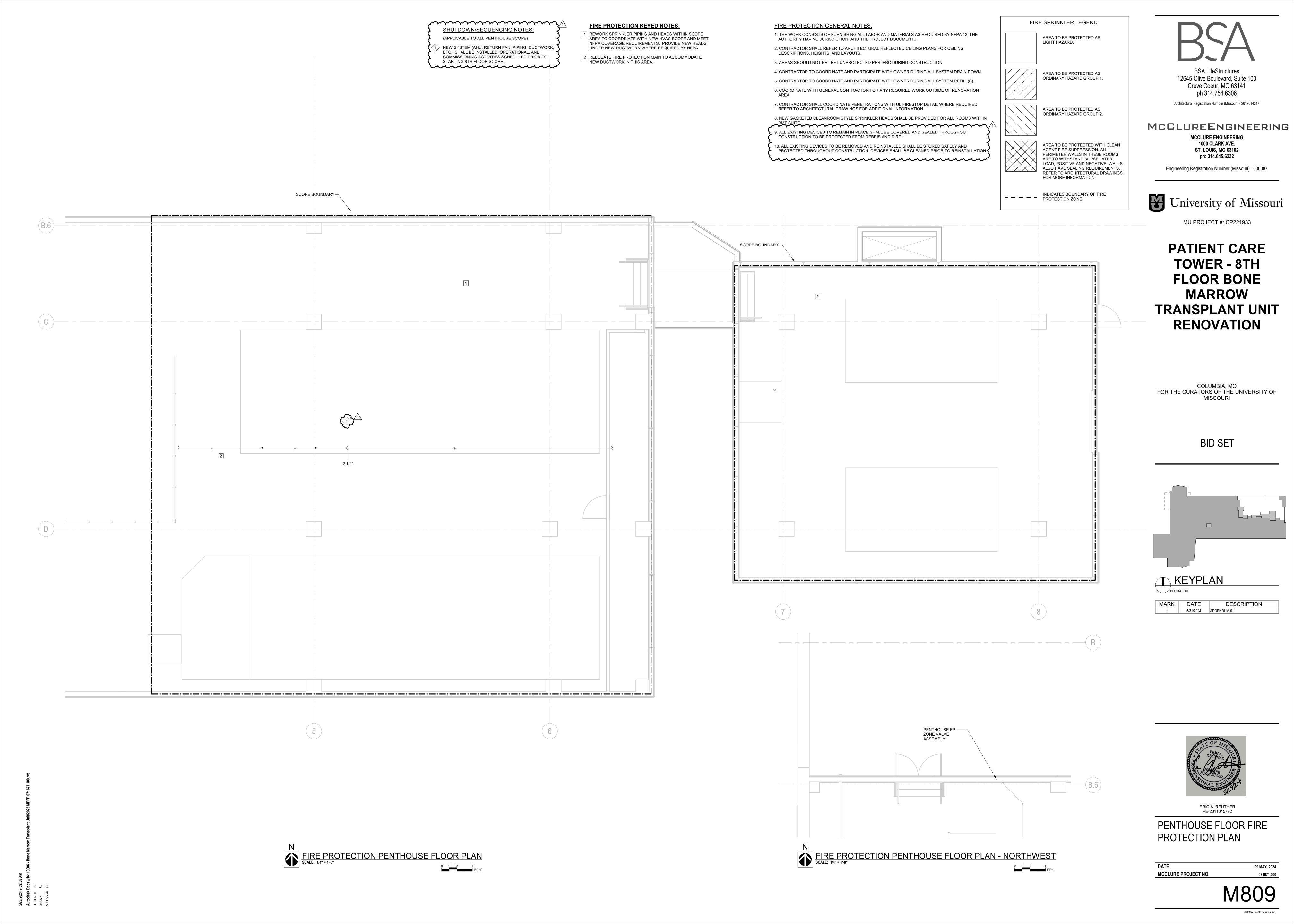


ERIC A. REUTHER PE-2011015792

EIGHTH FLOOR FIRE PROTECTION PLAN

MCCLURE PROJECT NO.

M808



KEYED NOTES:

1 ALL CIRCUIT BREAKERS SHALL BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.

MED GAS AREA ALARM PANEL

Branch Panel: L9A

Supply From: TL91

Circuit Description

Mounting: SURFACE

Enclosure: NEMA 1

Location: MECHANICAL PENTHOUSE.

11 DOOR POWER

13 DOOR POWER

15 DOOR POWER

21 SPARE

23 SPARE

25 SPARE

29 SPARE

33 SPARE

35 SPARE

37 SPARE

39 SPARE

41 SPARE

SPARE

19 SPARE

21 SPARE

23 SPARE

29 SPARE

35 SPARE

37 SPARE

39 SPARE 41 SPARE

FIRE/SMOKE DAMPERS

FIRE/SMOKE DAMPERS

FIRE/SMOKE DAMPERS

Branch Panel: L8A Location: ELEC T8260 **A.I.C. Rating:** 22,000 Volts: 120/208 Wye Supply From: Phases: 3 Mains Type: MCB Mounting: SURFACE Mains Rating: 100 A Enclosure: NEMA 1 Serves: LIFE SAEFTY BR Frequency: Circuit Description **Circuit Description** MED GAS AREA ALARM PANEL FIRE ALARM POWER SUPPLIES 2 MED GAS AREA ALARM PANEL FIRE ALARM POWER SUPPLIES 4 MED GAS AREA ALARM PANEL FIRE ALARM POWER SUPPLIES 0 0 1 20
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 MED GAS AREA ALARM PANEL FIRE ALARM POWER SUPPLIES 8

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Volts: 120/208 Wye

C (VA) Poles Trip (A)

1000 0 1 20

Phases: 3

Frequency:

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FIRE/SMOKE DAMPERS 10

FIRE/SMOKE DAMPERS 12

FIRE/SMOKE DAMPERS

A.I.C. Rating: 22,000

Mains Type: MLO

Mains Rating: 100 A

Serves: LIFE SAEFTY BRANCH

FIRE/SMOKE DAMPERS 14

SPARE 18

SPARE 26

SPARE 30

SPARE 36

SPARE 38

SPARE 40

SPARE 42

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

ELEVATOR CAB

ELEVATOR CAB 4

ELEVATOR CAB 6

ELEVATOR CAB 8

ELEVATOR CAB 10

ELEVATOR CAB 12

SPARE 18

SPARE 20

SPARE 22 SPARE 24

SPARE 26 SPARE 28 SPARE 30

SPARE 36

SPARE 38

SPARE 40

SPARE 42

SPARE SPARE 34

FIRE ALARM POWER SUPPLIES 14

FIRE ALARM POWER SUPPLIES 16

СКТ

LEVEL 8 VAV BOXES

MOTORIZED DAMPERS

29 RECEPTACLES - ELE SHAFTS 54, 55

17 MOTORIZED DAMPERS

19 MOTORIZED DAMPERS

21 RECEPTACLES

23 SPARE

27 SPARE

33 SPARE

35 SPARE

37 SPARE

39 SPARE

41 SPARE

25 SPARE

13 LEVEL 8 VAV BOXES

Panel:	AE9A
Location:	MECHANICAL PENTHOUSE
Supply From:	
Mounting:	SURFACE
Enclosure:	NEMA 1

Volts:	120/208 Wye
Phases:	3
Wires:	4
Frequency:	

C (VA) Poles Trip (A)

(1) 20 P-51 24 SPARE 26

Virginia de la constanta de la

B (VA)

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A.I.C. Rating: 22,000 Mains Type: MLO Mains Rating: 225 A Serves: EQUIPMENT BRANCH

Circuit Description

MOTORIZED ROOF VENT 2

MOTORIZED ROOF VENT

MOTORIZED ROOF VENT

MOTORIZED ROOF VENT

MOTORIZED DAMPERS

MOTORIZED DAMPERS

MOTORIZED DAMPERS

MOTORIZED DAMPERS AHU-51 LIGHTS

AHU-51 UV LIGHTS

SPARE 3

SPARE 3

SPARE 3

SPARE 3

SPARE 40

SPARE 42

SPARE

UNIT HEATERS

BSA LifeStructures 12645 Olive Boulevard, Suite 100 Creve Coeur, MO 63141 ph 314.754.6306

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MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET

	Location: MECHAN Supply From: AEDP-3 Mounting: SURFACI Enclosure: NEMA 1		JSE			Volts: Phases: Wires: quency:	4	Wye .		A.I.C. Rating: Mains Type: MLO Mains Rating: 225 A Serves:				
СКТ	Circuit Description	Trip (A)	Poles	Α (VA)	В(VA)	C	(VA)	Poles	Trip (A)	Circuit Description	CK	
1 3 5	VFD - AHU-51 (SUPPLY)	20	3	0	0	0	0	0	0	3	20	VFD - AHU-51 (SUPPLY)	2 4 6	
7	VFD - AHU-51 (SUPPLY)	20	3	0	0	0	0	0	0	3	20	VFD - AHU-51 (SUPPLY)	8 10	
13	SPARE	20	1	0	0			U	U	1	20	SPARE	14	
	SPARE	20	1			0	0			1	20	SPARE	16	
	SPARE	20	1		_			0	0	1	20	SPARE	18	
	SPARE	20	1	0	0					1	20	SPARE	20	
The state of the s	SPARE	20	1			0	0			1	20	SPARE	2	
I	SPARE	20	1					0	0	1	20	SPARE	2	
	SPARE	20	1	0	0					1	20	SPARE	2	
	SPARE	20	1			0	0			1	20	SPARE	2	
	SPARE	20	1					0	0	1	20	SPARE	3	
	SPARE	20	1	0	0					1	20	SPARE	3	
	SPARE	20	1			0	0			1	20	SPARE	3	
	SPARE	20	1					0	0	1	20	SPARE	3	
	SPARE	20	1	0	0					1	20	SPARE	3	
39	SPARE	20	1			0	0			1	20	SPARE	4	
41	SPARE	20	1					0	0	1	20	SPARE	4	

	PROF	POSED PROJ	JECT OL	JTAGE IN	ЛРАСТ		
			PANELS AND I	LOADS AFFECTED			
OUTAGE NUMBER		AEDP-3	EMCC-1	AE9A	E9P1	E9P1A	Comments
	REPLACE EXISTING PLUG IN 100A BREAKER WITH 60A SENSOR	EMCC-1	EF 1	208/120V		208/120V	
	REPLACE EXISTING PLUG IN 250A BREAKER WITH 60A SENSOR	T-E91(AE9A)	EF 2	EMERGENCY	480/277V	EMERGENCY	
1	TERMINATE CONDUCTORS FOR NEW AHU 51 SUPPLY FANS PANEL FEEDER	AHU3	EF 8	BRANCH	EMERGENCY BRANCH CIRCUITS	BRANCH	
	TERMINATE CONDUCTORS FOR NEW AHU 51 RETURN FANS PANEL FEEDER	AHU4	EF 13	CIRCUITS	BRAINCH CIRCUITS	CIRCUITS	
		AHU5	CRP 3		TE9P1A(E9P1A)		
		AHU6	CRP 4				
		RF 3	CRP 5				
		RF 4	CRP 6				
		RF 5					
		RF 6					
		SPF 1					1
		SPF 2					
		SPF 3					
		EPF 1					
		EPF 2					
		EPF 3					
		EPF 4			<u> </u>		
		AC 1					
		AC 2					
		CU 1					
		CU 2				-	
		EF 9				-	
		EF 10					
		E9P1					

	Location: MECHAN Supply From: AEDP-3 Mounting: SURFAC Enclosure: NEMA 1	JSE			Volts: Phases: Wires: quency:	4	' Wye		A.I.C. Rating: Mains Type: MLO Mains Rating: 225 A Serves:							
СКТ	Circuit Description	Trip (A)	Poles	Α(VA)) B (VA)		C (C (VA)		Trip (A)	Circuit Description	СКТ			
1				0	0											
3	VFD - AHU-51 (RETURN)	20	3			0	0			3	20	VFD - AHU-51 (RETURN)	4			
5								0	0				6			
7				0	0					1	20	SPARE	8			
9	VFD - AHU-51 (RETURN)	20	3			0	0			1	20	SPARE	10			
11	00405							0	0	1	20	SPARE	12			
13	SPARE	20	1	0	0					1	20	SPARE	14			
15	SPARE	20	1			0	0	0		1	20	SPARE	16			
17	SPARE	20	1					0	0	1	20	SPARE	18			
19 21	SPARE SPARE	20	1	0	0	0	0			1	20	SPARE SPARE	20 22			
23	SPARE	20	1			0	U	0	0	1	20	SPARE	24			
25	SPARE	20	1	0	0			0	U	1	20	SPARE	26			
27	SPARE	20	1			0	0			1	20	SPARE	28			
29	SPARE	20	1					0	0	1	20	SPARE	30			
31	SPARE	20	1	0	0					1	20	SPARE	32			
33	SPARE	20	1			0	0			1	20	SPARE	34			
35	SPARE	20	1					0	0	1	20	SPARE	36			
37	SPARE	20	1	0	0					1	20	SPARE	38			
39	SPARE	20	1			0	0			1	20	SPARE	40			
41	SPARE	20	1					0	0	1	20	SPARE	42			
otes:																

	EQUIPMENT	MOTOR DATA	BRANCH CIRCUIT DATA		SOURCE D	ΔΤΔ			UNIT CO	NTROLS				F	QUIPMENT DI	SCONNECT	REMARKS
		erex.bx.	Did intern einteen Ditint			OCP		ОСР				4		_			4
EQUIP.	DESCRIPTION	HP / (kW) VOLTAGE / / (MCA)1 PHASE	FEEDER SIZE	SOURCE:	TYPE2 / POLES	SWITCH/FUSE SIZE or CB TRIP (A)	TYPE3	TYPE	SWITCH/FUS E	NEMA RATING	F I C	EQUIP.	SWITCH SIZE	POLE	OCP SIZE	NEMA RATING	F I C
HU-51 SF1	AHU 51 SUPPLY FAN 1	5 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	EEE	AHU-51 SF1	NA	NA	NA	NA	N N N CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONN
HU-51 SF2	AHU 51 SUPPLY FAN 2	5 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	EEE	AHU-51 SF2	NA	NA	NA	NA	N N N CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONN
HU-51 SF3	AHU 51 SUPPLY FAN 3	5 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	EEE	AHU-51 SF3	NA	NA	NA	NA	N N N CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONN
HU-51 SF4	AHU 51 SUPPLY FAN 4	5 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	EEE	AHU-51 SF4	NA	NA	NA	NA	N N N CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONN
HU-51 RF1	AHU 51 RETURN FAN 1	2 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	EEE	AHU-51 RF1	NA	NA	NA	NA	N N N CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONN
HU-51 RF2	AHU 51 RETURN FAN 2	2 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	EEE	AHU-51 RF2	NA	NA	NA	NA	N N N CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONN
AHU-51 RF3	AHU 51 RETURN FAN 3	2 HP 480 / 3	3#12, 1#12 GRD-3/4"C	SEE ONE LINE	CB / 3	15	VFD - 4KHZ	NA	NA	NEMA 1	EEE	AHU-51 RF3	NA	NA	NA	NA	N N N CIRCUIT BREAKER WILL SERVE AS EQUIPMENT DISCONN
P-51	HEATING COIL PUMP	1/3 HP 120 / 1	2#12, 1#12 GRD-3/4"C	SEE FLOOR PLANS	CB / 1	20	RIB	NA	NA	NEMA 1	EEE	P-51	20	1	NA	NEMA 1	EEE

HP /... HORSEPOWER IS SHOWN UNLESS KILOWATTS (kW) OR MINIMUM CIRCUIT AMPACITY (MCA) IS CALLED OUT TYPE2: FS FUSED SWITCH CB CIRCUIT BREAKER

NA NOT APPLICABLE

TYPE3: COMBINATION MAGNETIC STARTER / DISCONNECT SWITCH OR CIRCUIT BREAKER COMB

MAGNETIC STARTER MANUAL MOTOR STARTER PWCP

PRE-WIRED CONTROL PANEL VFD - 4KHZ VARIABLE FREQUENCY DRIVE - MAXIMUM CARRIER FREQUENCY OF 4KHZ VFD - 12KHZ VARIABLE FREQUENCY DRIVE - MAXIMUM CARRIER FREQUENCY OF 12KHZ

> TOGGLE SWITCH (HORSEPOWER... THERMOSTAT RELAY IN A BOX

2-SPEED 1-WINDING MAGNETIC STARTER 2-SPEED 2-WINDING MAGNETIC STARTER 2S2W NA NOT APPLICABLE

F I C4: (FURNISHED, INSTALLED, CONNECTED) MECHANICAL, PLUMBING, FIRE PROTECTION CONTRACTOR, OR FACTORY

ELECTRICAL SCHEDULES ELECTRICAL CONTRACTOR N NOT APPLICABLE

MCCLURE PROJECT NO.

PE-2014032649

AUSTIN P STRIEKER PE-2014032649

MARK DATE

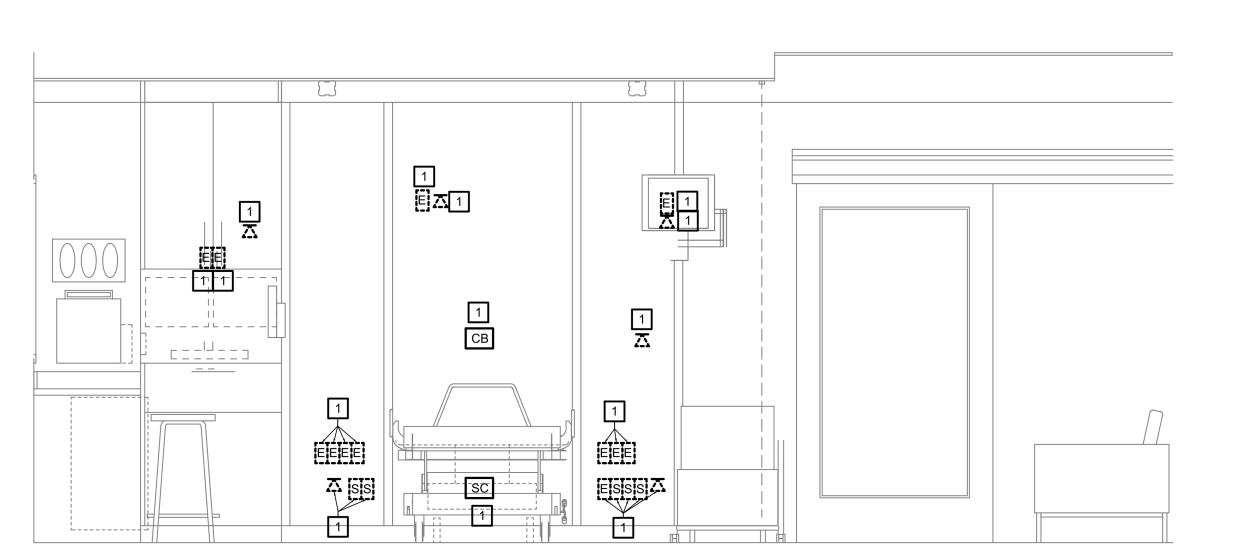
1 5/31/2024 ADDENDUM #1

DESCRIPTION

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09 MAY, 2024

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N
ENLARGED PLAN - TYPICAL HEADWALL LAYOUT DEMOLITION
SCALE: NS

GENERAL NOTES:

- REFERENCE ARCHITECTURAL PHASING PLAN FOR CONSTRUCTION COORDINATION
- 2. WORK ABOVE CEILINGS AND IN FINISHED SPACES SHALL BE PERFORMED IN A HEPA BOOTH. AN INFECTION CONTROL BARRIER SHALL BE INSTALLED IF A LARGER WORK SPACE IS REQUIRED TO PERFORM THE TASK
- 3. FOR A PORTION OF A CIRCUIT WHICH IS REMOVED OR ABANDONED, RE-ESTABLISH CIRCUIT CONTINUITY FOR THE PORTION OF THE CIRCUIT WHICH IS TO REMAIN.
- 4. PROVIDE AND INSTALL SUPPORTS FOR EXISTING CABLES AND CONDUITS ABOVE CEILING THAT ARE CURRENTLY UNSUPPORTED IN ALL AREAS WHERE CEILING IS BEING REMOVED.
 5. ALL WALL MOUNTED DEVICES NOT CALLED OUT TO BE REMOVED WITHIN THE CONSTRUCTION ZONE MUST BE COVERED TO PROTECT FROM DUST OR OTHER CONSTRUCTION DEBRIS AND CLEANED AT THE COMPLETION OF THE CONSTRUCTION IN THAT AREA

 $\underline{\mathbb{N}}$

KEYED NOTES:

- 1 REMOVE DEVICE AND DEVICE COVER IN COORDINATION WITH ARCHITECTURE WALL WORK.
- 2 RELOCATE DOOR ACCESS CONTROL BOX. SEE SHEET E308 FOR NEW LOCATION.
- DISCONNECT AND MAKE SAFE FOR MECHANICAL UNIT RELOCATION. EXISTING CONTROLS AND CIRCUITING TO REMAIN
- 4 REMOVE EXISTING DEVICE FOR RELOCATION. PRIOR TO REMOVAL COORDINATE WITH OWNER.
- FINE REMOVAL COORDINATE WITH OWNER.

 5 REMOVE DATA DEVICE ABOVE DOOR FOR RELOCATION.
- (2) ROWS OF EXISTING WIREMOLD SHALL BE SHORTENED TO ACCOMODATE NEW DOOR INSTALL. COORDINATE ADDITIONAL REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
- 7 SEE TYPICAL HEADWALL LAYOUT DEMOLITOIN THIS SHEET FOR DEVICE DETAILS.
- 8 EXISTING CONDUIT SHALL BE REWORKED ONE AT A TIME TO ACCOMODATE NEW MECHNAICAL WORK. SEE SHEET E308 FOR ADDITIONAL INFORMATION.
- 9 INTERCEPT AND PULL BACK (10) EXISTING 3/4" CONDUITS, WITH (3) CIRCUITS IN EACH, ONE AT A TIME, TO EXISTING PULL BOX. SEE SHEET E308 FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING FIRE ALARM RELAY SERVING DOOR. FIRE ALARM RELAY SHALL BE REMOVED FROM THE FIRE ALARM PROGRAMMING. ALL WORK SHALL BE PERFORMED BY SIEMENS.
 DISCONNECT AND REMOVE EXISTING HEPA FAN POWERED BOX. EXISTING CIRCUIT SHALL BE REUSED FOR RAV BOX POWER
- 12 EXISTING SMOKE DETECTOR HEAD SHALL BE REPLACED WITH

SUPPLY. REFER TO E308 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

- 13 EXISTING CEILING AND ALL ASSOCIATED DEVICES (SPEAKERS, WAP'S, FIRE ALARM DEVICES, ETC.) SHALL BE TEMPORARILY REMOVED DURING CONSTRUCTION TO FACILITATE INSTALLATION OF NEW MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS. ELECTRICAL CONTRACTOR SHALL COORDINATE CEILING RENOVATIONS WITH OTHER TRADES.
- 14 DISCONNECT AND REMOVE EXISTING NURSE CALL WALL MOUNTED DOME LIGHT. DOME LIGHT SHALL BE REPLACEED WITH NEW CEILING MOUNTED LIGHT.



ph 314.754.6306

Architectural Registration Number (Missouri) - 2017014317

Creve Coeur, MO 63141

MCCLURE ENGINEERING MCCLURE ENGINEERING 1000 CLARK AVE.

ST. LOUIS, MO 63102

ph: 314.645.6232

Engineering Registration Number (Missouri) - 000087

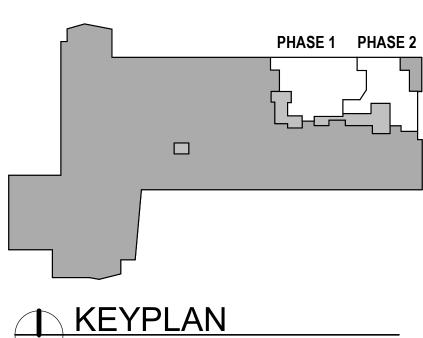
University of Missouri

MU PROJECT #: CP221933

PATIENT CARE
TOWER - 8TH
FLOOR BONE
MARROW
TRANSPLANT UNIT
RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET



DESCRIPTION

PLAN NORTH

 MARK
 DATE
 DES

 1
 5/31/2024
 ADDENDUM #1

AUSTIN P.
STRIEKER

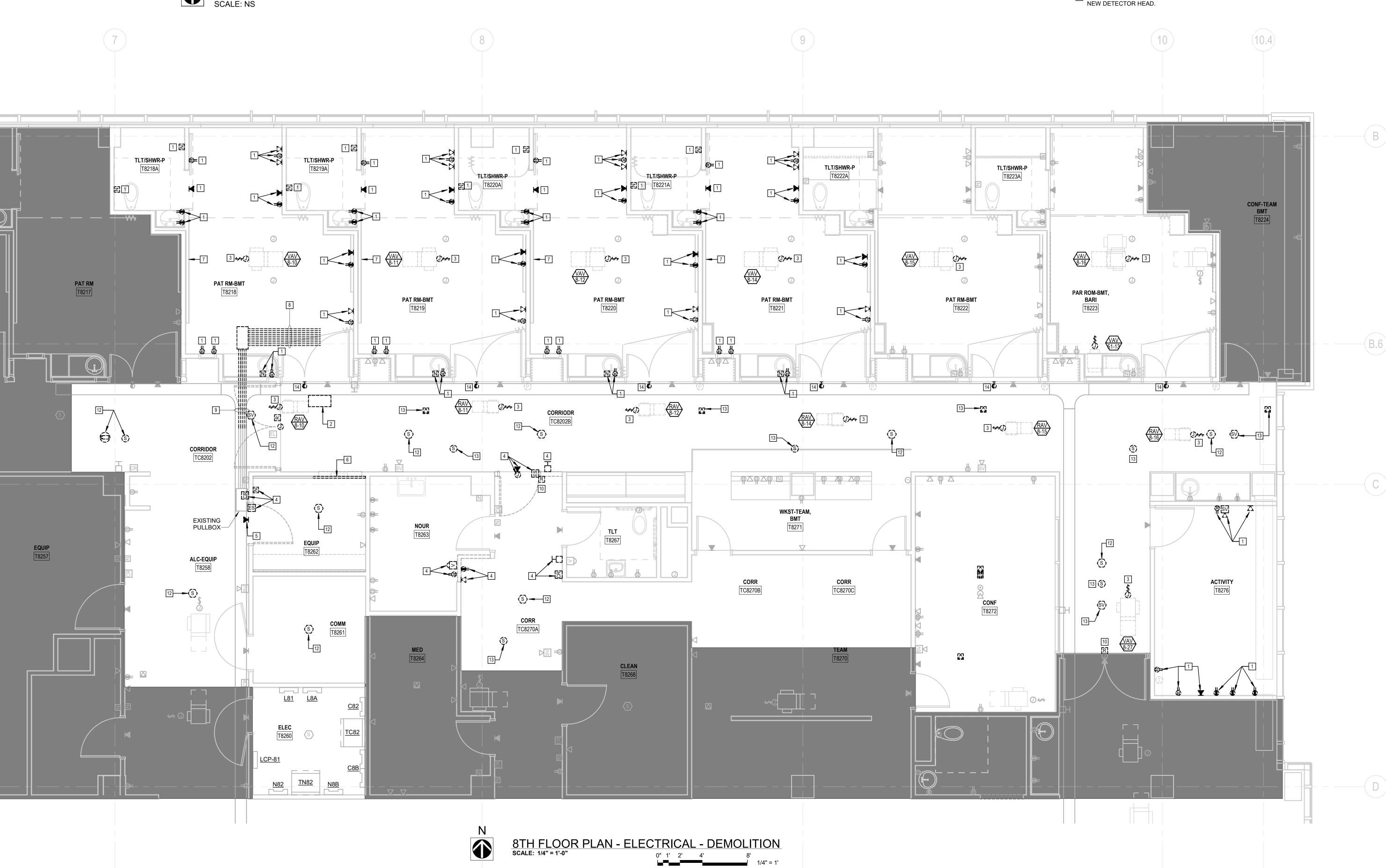
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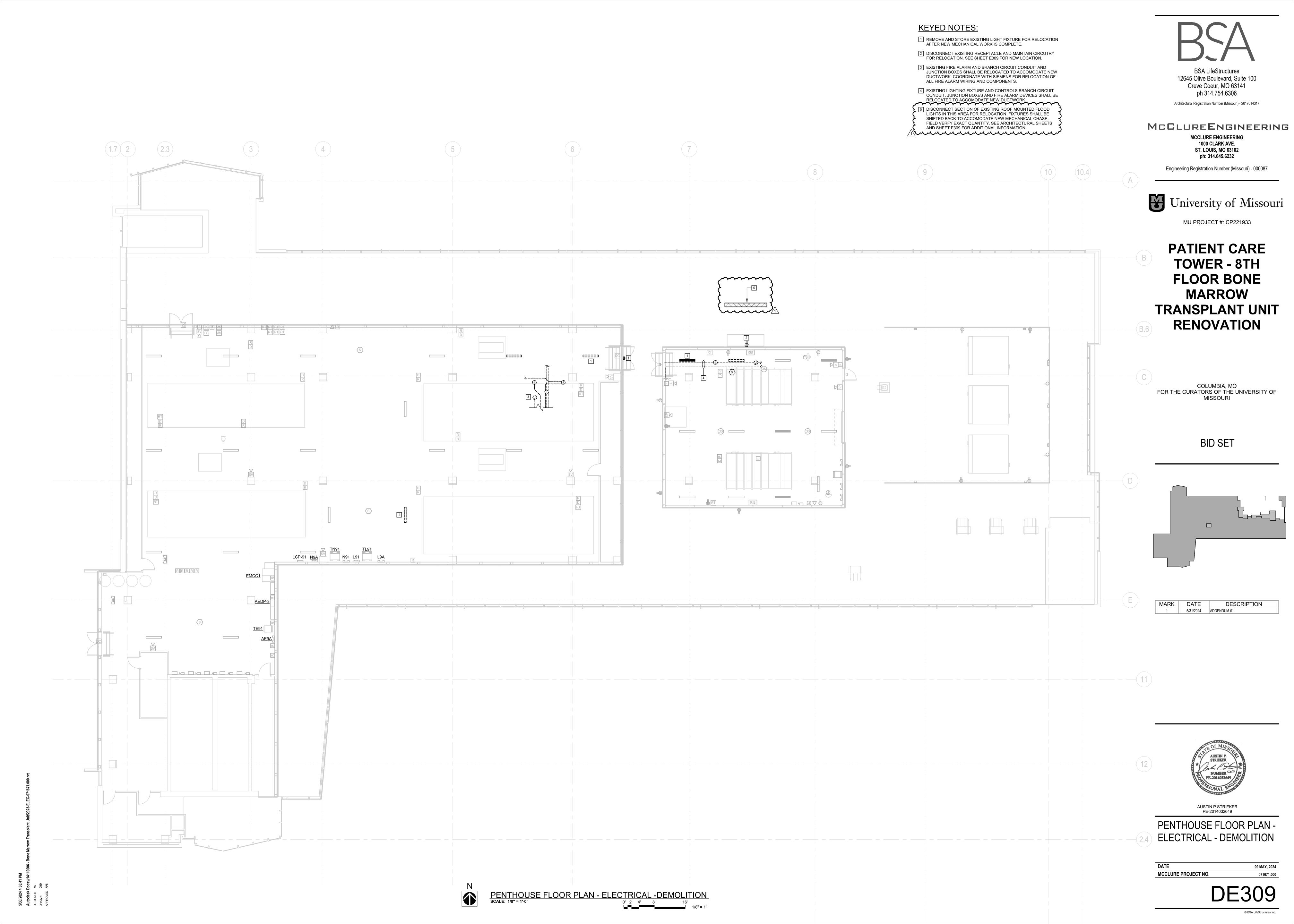
AUSTIN P STRIEKER

8TH FLOOR PLAN -ELECTRICAL - DEMOLITION

DATE
MCCLURE PROJECT NO.

DE30







GENERAL NOTES:

- 1. REFERENCE ARCHITECTURAL PHASING PLAN FOR CONSTRUCTION COORDINATION
- 2. WORK ABOVE CEILINGS AND IN FINISHED SPACES SHALL BE PERFORMED IN A HEPA BOOTH. AN INFECTION CONTROL BARRIER SHALL BE INSTALLED IF A LARGER WORK SPACE IS REQUIRED TO PERFORM THE TASK
- 3. REMOVE AND REINSTALL ALL CEILING TILES AND GRID TO REMAIN AS REQUIRED FOR INSTALLATION OF NEW WORK ON THIS SHEET. CONTRACTOR TO REPLACE ANY DAMAGED TILE TO THE SATISFACTION OF THE ENGINEER/ARCHITECT. MATCH EXISTING
- 4. TEMPORARILY SUPPORT, REMOVE AND REINSTALL, OR RELOCATE ALL CEILING DEVICES IN COORDINATION WITH CEILING REPLACEMENT WORK AND MECHANICAL DUCT ROUTING. REFER TO ARCHITECTURAL AND MECHNAICAL SHEETS FOR COORDINATION OF THIS WORK.
- 5. SALVAGE AND RETURN ALL DEMOLISHED ACCESS CONTROL DEVICES TO OWNER.
- 6. SALVAGE AND RETURN ALL DEMOLISHED FIRE ALARM DEVICES TO

KEYED NOTES:

- REINSTALL DEVICE AND DEVICE COVERPLATE. REPLACE ALL DAMAGED OR OVER PAINTED TRIM COVERPLATES WITH NEW ENGRAVED COVERPLATES AS REQUIRED. 2 RELOCATED DOOR ACCESS CONTROL BOX.
 - 3 EXTEND EXISTING CIRCUIT AND CONTROLS TO NEW MECHANICAL
- 4 REPLACE EXISTING SMOKE DETECTOR WITH NEW DETECTOR HEAD. 5 RELOCATED DEVICE.
- 6 SEE TYPICAL HEADWALL LAYOUT NEW WORK THIS SHEET FOR DEVICE DETAILS.
- 7 REWORK EXISTING CONDUIT TO NEW JUNCTION BOX. JUNCTION BOX AND CONDUIT SHALL BE INSTALLED BELOW NEW MECHANICAL
- [8] TRANSITION CONDUITS DOWN BEFORE PENETRATING WALL.
- 9 RELOCATED POWER FOR RELOCATED POWERED DOOR.
- 10 FUNCTIONAL DEVICES PSH500A POWER SUPPLY FOR RAV BOX POWER. OUTPUTS SHALL BE LIMITED TO A MAXIMUM OF 3 BOXES.
- 11 REINSTALL EXISTING CEILING MOUNTED DEVICE IN SAME LOCATION AFTER INSTALLATION OF NEW MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS. ELECTRICAL CONTRACTOR SHALL COORDINATE CEILING RENOVATIONS WITH OTHER TRADES.
- 12 EXTEND EXISTING WIRING AS NEEDED TO NEW NURSE CALL DOME
- REMOVE, REWIRE, RECONNECT EXISTING DOOR OPERATOR AND CONTROLS. DOOR SHALL BE PROGRAMMED TO NOT ALLOW



12645 Olive Boulevard, Suite 100 Creve Coeur, MO 63141 ph 314.754.6306

Architectural Registration Number (Missouri) - 2017014317

McClureEngineering MCCLURE ENGINEERING 1000 CLARK AVE. ST. LOUIS, MO 63102

Engineering Registration Number (Missouri) - 000087

ph: 314.645.6232

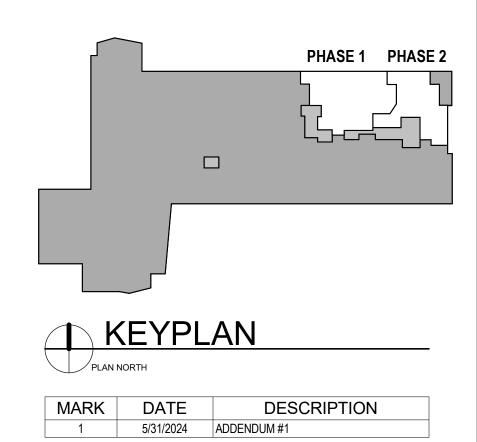


MU PROJECT #: CP221933

PATIENT CARE **TOWER - 8TH FLOOR BONE MARROW** TRANSPLANT UNIT RENOVATION

COLUMBIA, MO FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

BID SET





AUSTIN P STRIEKER

8TH FLOOR PLAN -ELECTRICAL - NEW WORK

MCCLURE PROJECT NO.

E308

