PLUMBING NOTES

GENERAL NOTES

A. ALL PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES AND ORDINANCES INCLUDING, BUT NOT LIMITED TO, THE LEE'S SUMMIT, MISSOURI, PLUMBING AND BUILDING CODES & ORDINANCES, NFPA 13 & 14, THE AMERICAN DISABILITIES ACT AND THE LIFE SAFETY CODE. IT IS A REQUIREMENT OF THIS CONTRACT THAT THE CONTRACTOR BE EXPERIENCED IN THIS TYPE OF WORK AND BE THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THE APPLICABLE CODES, WHETHER SPECIFICALLY REFERRED TO IN THE DOCUMENTS OR NOT.

B. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL NECESSARY FEES FOR THE PLUMBING WORK.

C. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO PROVIDE COMPLETE AND WORKING PLUMBING SYSTEMS, AS DESCRIBED IN THE CONTRACT DOCUMENTS, AND FULLY COORDINATED WITH ALL OTHER TRADES.

D. REFER TO THE SPECIFICATIONS, THE DRAWINGS AND MANUFACTURER'S CUT SHEETS FOR COMPLETE INFORMATION ON MATERIALS AND METHODS REQUIRED TO INSTALL THE PLUMBING SYSTEMS.

E. ALL PLUMBING WORK DONE UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN A SKILLED WORKMANLIKE AND PROFESSIONAL MANNER.

F. ALL PLUMBING AND FIRE PROTECTION PIPING SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED. HOLD ALL PIPING IN CEILING SPACES HIGH TO STRUCTURE AS POSSIBLE.

G. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN COORDINATION WITH ARCHITECTURAL PLANS, PROJECT SCHEDULES AND HOSPITAL OPERATIONS & REQUIREMENTS. COORDINATE ALL REQUIRED SHUT DOWN OF SYSTEMS OR OUT OF PHASE WORK WITH THE OWNER'S REPRESENTATIVE & HOSPITAL PERSONNEL.

H. THE CONTRACTOR SHALL PROTECT THE PLUMBING EQUIPMENT AND FIXTURES FROM DAMAGE DURING HANDLING AND INSTALLATION AND UNTIL THE PROJECT IS COMPLETED. ANY EQUIPMENT OR FIXTURE THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED, AT THE ARCHITECT AND ENGINEER'S DISCRETION, AND AT THE CONTRACTOR'S EXPENSE.

I. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT AND FIXTURES UPON COMPLETION OF THE PROJECT.

J. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BIDDING TO VERIFY THE EXACT SIZE AND LOCATION OF ALL EXISTING PIPING RELATED TO HIS WORK.

K. THE CONTRACTOR SHALL COORDINATE THE PLUMBING WORK WITH ALL OTHER TRADES. WORK SHOWN ON THE DRAWINGS IS INTENDED TO PROVIDE THE OVERALL ENGINEERING DESIGN CONCEPT AND MAY REQUIRE RELOCATIONS, FIELD ADJUSTMENTS OR OFFSETS TO COORDINATE WITH OTHER TRADES AND THE BUILDING STRUCTURE. COSTS FOR ALL SUCH MINOR FIELD ADJUSTMENTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

L. IT IS THE REQUIREMENT OF THESE DOCUMENTS TO ALLOW ALL CEILINGS TO BE CONSTRUCTED AT HEIGHTS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF PIPING AND PROVIDE OFFSETS IN PIPING AS REQUIRED TO MEET THIS REQUIREMENT.

M. THE CONTRACTOR SHALL PROVIDE DETAILED AND DIMENSIONED PIPING FABRICATION DRAWINGS FOR APPROVAL BY THE ARCHITECT/ENGINEER. ONE BLUE-LINE SET OF THE APPROVED DRAWINGS SHALL BE KEPT ON-SITE AT ALL TIMES AND ANY CHANGES REQUIRED IN THE FIELD SHALL BE MARKED ON THESE DRAWINGS. AT THE END OF THE PROJECT, ALL CHANGES SHALL BE TRANSFERRED TO A REPRODUCIBLE DRAWING TO BE GIVEN TO THE OWNER FOR "AS-BUILT" DRAWINGS. REPRODUCTIONS OF THIS DRAWING WILL NOT BE CONSIDERED AS PIPING FABRICATION DRAWINGS.

N. ALL PLUMBING EQUIPMENT OR VALVES REQUIRING ACCESS THAT ARE LOCATED ABOVE GYP. BOARD OR OTHERWISE INACCESSIBLE CEILINGS SHALL BE PROVIDED WITH A CEILING ACCESS PANEL SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THESE ACCESS PANELS WITH THE GENERAL CONTRACTOR.

O. LOCATE ISOLATION VALVES FOR EQUIPMENT AND FIXTURES AS CLOSE TO THE MAIN AS POSSIBLE. PROVIDE CEILING OR WALL ACCESS PANELS AS NEEDED.

GENERAL NOTES, CONT.

P. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.

Q. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.

R. ALL PLUMBING PIPING SHALL BE IDENTIFIED AS DESCRIBED IN THE SPECIFICATIONS.

S. ALL PLUMBING VALVES SHALL BE TAGGED AND NOTED ON THE "AS-BUILT" DRAWINGS.

T. SLOPE AND ARRANGE WATER PIPING SYSTEMS TO ESTABLISH HIGH POINTS FOR AIR ELIMINATION AND LOW POINTS TO PERMIT PROPER DRAINING OF EACH SECTION.

U. COORDINATE ALL PIPING PENETRATIONS THROUGH THE ROOF AND FLOOR WITH THE BUILDING'S STRUCTURE. REFER TO THE PLUMBING PENETRATION DETAILS, THE ARCHITECTURAL DRAWINGS AND THE PLUMBING SPECIFICATIONS FOR SLEEVING AND SUPPORT INFORMATION.

V. PROVIDE CLEANOUTS AT THE BASE OF ALL STORM AND SANITARY STACKS AND IN INDIVIDUAL WASTE & VENT STACKS AS SHOWN ON THE RISERS.

W. LOCATE VENTS THROUGH THE ROOF AT LEAST 25' AWAY FROM ALL FRESH AIR INTAKES OR BUILDING OPENINGS.

X. LOCATE ALL WALL CLEANOUTS 18" ABOVE THE FINISHED FLOOR.

Y. PROVIDE BACKFLOW PREVENTION DEVICES APPROVED BY THE AHJ FOR ALL ITEMS OF EQUIPMENT THAT ARE REQUIRED BY THE AHJ TO HAVE CROSS CONTAMINATION PROTECTION, WHETHER SHOWN ON THE DRAWINGS OR NOT.

Z. PROVIDE A PRV AT THE DOMESTIC WATER SERVICE ENTRANCE TO LIMIT WATER SYSTEM PRESSURE TO THE BUILDING TO 80 PSI.

AA. RUN ALL PIPING IN WALLS, CHASES AND ABOVE THE CEILING. PROVIDE CHROME PLATED PIPING WHERE EVER PIPING HAS TO BE EXPOSED.

BB. PROVIDE DRIP PANS UNDER PLUMBING LINES WERE REQUIRED BY CODE AND/OR THE OWNER.

CC. PROVIDE ACCESS TO ALL VALVES AND TRAP PRIMERS.

PLUMBING ABBREVIATIONS

ABV	ABOVE	GPM	GALLONS PER MINUTE
AFF	ABOVE FINISHED FLOOR	GW	GREASE WASTE
AFG	ABOVE FINISH GRADE	HB	HOSE BIBB
AP	ACCESS PANEL	HD	HUB DRAIN
AD	AREA DRAIN	HW	HOT WATER
BFF	BELOW FINISH FLOOR	HWR	HOT WATER RETURN
B/G	BELOW GRADE	I.E.	INVERT ELEVATION
BV	BALANCING VALVE	L	LAVATORY
CA	COMPRESSED AIR	MH	MANHOLE
CO	CLEAN OUT	MS	MOP SINK
CSS	CLINICAL SERVICE SINK	NC	NORMALLY CLOSED VALVE
CW	COLD WATER	NO	NORMALLY OPEN VALVE
DD	DECK DRAIN	NFWH	NON-FREEZE WALL HYDRANT
DF	DRINKING FOUNTAIN	NFYH	NON-FREEZE YARD HYDRANT
DN	DOWN	OS&Y	OUTSIDE STEM AND YOKE
DS	DOWNSPOUT	PD	PLANTER DRAIN
DSN	DOWNSPOUT NOZZLE	PRV	PRESSURE REDUCING VALVE
ESH	EMERGENCY SHOWER	TMV	THERMOSTATIC MIXING VALVE
EW	EYE WASH	T&P	TEMPERATURE AND PRESSURE VALVE
EWC	ELECTRIC WATER COOLER		
FCVA	FLOOR CONTROL VALVE ASSEMBLY	TP	TRAP PRIMER
FCO	FLOOR CLEANOUT	V	VENT PIPING
FD	FLOOR DRAIN	VB	VACUUM BREAKER
FS	FLOOR SINK	VTR	VENT THROUGH ROOF
GC	GENERAL CONTRACTOR	WB	WALL BOX
GCO	GRADE CLEANOUT		

DEMOLITION NOTES

A. ALL SECTIONS OF PLUMBING PIPING THAT ARE SHOWN TO BE DEMO'D SHALL BE REMOVED BACK BACK TO MAINS, OR NEAREST ACTIVE LINES, AND CAPPED OR PLUGGED SO THAT NO DEAD ENDS ARE CREATED.

B. ALL DEMOLITION WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS, HOSPITAL SCHEDULES, AREA OCCUPANCIES AND OTHER TRADES.

C. ALL DEMOLISHED ITEMS THAT ARE NOT RETAINED BY THE OWNER AND ARE NOT CALLED OUT TO BE REINSTALLED BY THE CONTRACT DOCUMENTS SHALL BE DISPOSED OF LEGALLY

D. ANY EXISTING PLUMBING RISERS EXPOSED BY THE REMOVAL OF EXISTING WALLS OR CHASES SHALL BE RELOCATED TO A NEARBY LOCATION AS NOTED ON THE DRAWINGS OR AS APPROVED BY THE ARCHITECT.

E. THE CONTRACTOR SHALL REPLACE ALL DAMAGED CEILING TILES AND REPAIR ALL DAMAGED WALL FINISHES DURING DEMOLITION WORK.

F. PROVIDE ADDITIONAL VALVES, FITTINGS AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE AND INSIDE OF THE AREA WHERE WORK IS BEING PERFORMED.

G. INFORMATION PROVIDED ON THESE DRAWINGS HAS BEEN TAKEN FROM DESIGN DRAWINGS AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.

H. ALL EXISTING PIPING THAT IS CAPPED OFF OR PLUGGED DURING DEMOLITION SHALL BE CHECKED FOR LEAKS.

I. PROVIDE AND INSTALL ALL NECESSARY PIPING AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE TO ALL "EXISTING TO REMAIN" FIXTURES AND EQUIPMENT THAT MAY BE INTERRUPTED DURING DEMOLITION.

J. WHERE EXISTING MECHANICAL EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED PLUMBING TO THE EQUIPMENT AND THEIR ASSOCIATED PIPING BACK TO THE POINT OF ORIGINATION.

K. ANY FLOOR DRAIN OR FLOOR SINK INDICATED TO BE REMOVED SHALL BE REMOVED COMPLETELY.

L. EXISTING FIXTURES AND EQUIPMENT NOT INDICATED TO BE REMOVED SHALL REMAIN IN USE.

PROJECT DESIGN CRITERIA

LOCATION:

CITY/STATE	LEE'S SUMMIT, MO

APPLICABLE CODES:

BUILDING	2018 IBC w/LOCAL AMENDMENTS
MECHANICAL	2018 IMC w/LOCAL AMENDMENTS
PLUMBING	2018 UPC w/LOCAL AMENDMENTS
FIRE	2018 IFC w/LOCAL AMENDMENTS
ELECTRICAL	2017 NEC w/LOCAL AMENDMENTS

PLUMBING PIPING MATERIAL SCHEDULE

DOMESTIC WATER

ABOVE GROUND PIPING NPS 2 AND SMALLER

1. HARD COPPER TUBE: ASTM B 88, TYPE L WATER TUBE, DRAWN TEMPER
2. HARD COPPER TUBE, ASTM B 88, TYPE L; COPPER PRESSURE-SEAL FITTINGS; AND PRESSURE-SEAL JOINTS.

UNDER-BUILDING-SLAB, DOMESTIC WATER PIPING, NPS 2 AND SMALLER

1. SOFT COPPER TUBE, ASTM B 88, TYPE K; NO JOINTS BELOW GRADE.

SANITARY WASTE AND VENT

ABOVE GROUND SOIL AND WASTE PIPING

1. SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS.
2. HUBLESS CAST-IRON SOIL PIPE AND FITTINGS; HEAVY-DUTY SHIELDED, STAINLESS-STEEL COUPLINGS; AND HUBLESS-COUPLING JOINTS.
3. COPPER DWV TUBE, COPPER DRAINAGE FITTINGS, AND SOLDERED JOINTS.

ABOVE GROUND VENT PIPING

1. SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS.
2. HUBLESS CAST-IRON SOIL PIPE AND FITTINGS; HEAVY-DUTY SHIELDED, STAINLESS-STEEL COUPLINGS; AND HUBLESS-COUPLING JOINTS.
3. COPPER DWV TUBE, COPPER DRAINAGE FITTINGS, AND SOLDERED JOINTS.

UNDERGROUND SOIL AND WASTE PIPING

1. SERVICE CLASS, CAST-IRON SOIL PIPING; GASKETS; AND GASKETED JOINTS.
2. SOLID WALL PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.

UNDERGROUND VENT PIPING

1. SERVICE CLASS, EPOXY COATED CAST-IRON SOIL PIPING; GASKETS; AND GASKETED JOINTS.

STORM PIPING

ABOVE GROUND STORM DRAINAGE PIPING

1. SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS.
2. HUBLESS CAST-IRON SOIL PIPE AND FITTINGS; HEAVY-DUTY SHIELDED, STAINLESS-STEEL COUPLINGS; AND COUPLED JOINTS.

UNDERGROUND STORM DRAINAGE PIPING

1. EXTRA-HEAVY CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS.
2. SOLID-WALL PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.

CHEMICAL WASTE PIPING

ABOVE GROUND CHEMICAL-WASTE PIPING

1. PP DRAINAGE PIPING AND ELECTROFUSION OR MECHANICAL JOINTS.
2. PVDF DRAINAGE PIPING AND ELECTROFUSION OR MECHANICAL JOINTS.
3. CPVC DRAINAGE PIPE AND FITTINGS AND SOLVENT CEMENT JOINTS

UNDER SLAB-ON-GRADE, INDOOR, CHEMICAL-WASTE PIPING

1. PP DRAINAGE PIPING AND ELECTROFUSION JOINTS.
2. PVDF DRAINAGE PIPING AND ELECTROFUSION JOINTS.
3. CPVC DRAINAGE PIPE AND FITTINGS AND SOLVENT CEMENT JOINTS.

MEDICAL GAS PIPING

MEDICAL VACUUM, MEDICAL AIR AND OXYGEN

1. TYPE L, COPPER MEDICAL GAS TUBE; WROUGHT-COPPER FITTINGS; AND BRAZED JOINTS OR AXIALLY SWAGED COUPLINGS.

PLUMBING SYMBOLS

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CW	DOMESTIC COLD WATER (CW)		PRESSURE GAUGE WITH GAUGE COCK
HW	DOMESTIC HOT WATER (HW)		THERMOMETER WITH GAUGE COCK
HWR	DOMESTIC HOT WATER RETURN (HWR)		HOSE BIBB (HB)
NPW	NON-POTABLE WATER		FLOOR CLEANOUT OR GRADE CLEANOUT (FCO,GCO)
TP	TRAP PRIMER LINE (1/2")		WALL CLEANOUT (WCO)
TW	TEMPERED WATER	CO CO	CLEANOUT PLUG
RPZ	COLD OR HOT REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ)		DIRECTION OF SLOPE - GRAVITY PIPING
	EXISTING PIPING TO REMAIN		DIRECTION OF FLOW - PRESSURE PIPING
	EXISTING PIPING TO BE REMOVED		PIPING CAPPED OFF
SS	SANITARY SEWER/WASTE PIPING		BALANCING VALVE
	SANITARY VENT PIPING		STRAINER
IW	INDIRECT WASTE	SA	SHOCK ARRESTOR (SA-A, SA-B, SA-C, SA-D) B
	CONNECT NEW TO EXISTING		HUB DRAIN (HD)
SD	STORM DRAIN PIPING		FLOOR DRAIN (FD)
OD	OVERFLOW STORM DRAIN PIPING	#	LEGEND NOTE
CA	COMPRESSED AIR PIPING	FOS	FUEL OIL SUPPLY PIPING
GW	GREASY WASTE	FOR	FUEL OIL RETURN PIPING
SSD	SUBSOIL/PERIMETER DRAIN PIPING	DFS	DRY FIRE STANDPIPE PIPING
	BUTTERFLY VALVE	SP	SPRINKLER PIPING
	BALL VALVE	DSP	DRY SPRINKLER PIPING
	GLOBE VALVE	F	FIRE PROTECTION PIPING
	TEMPERATURE AND PRESSURE RELIEF VALVE		CONNECT TO EXISTING
	GAS COCK / PLUG VALVE		DEMOLISH TO
	SOLENOID VALVE		
PRV	PRESSURE REGULATING VALVE		
AQ	AQUASTAT		
	CHECK VALVE		
	GATE VALVE		

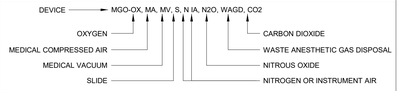
MEDICAL GAS SYMBOLS

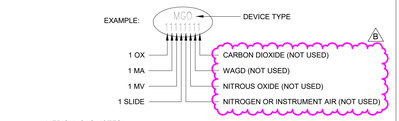
SYMBOL	DESCRIPTION
OX	MEDICAL OXYGEN PIPING
MA	MEDICAL AIR PIPING
MV	MEDICAL VACUUM PIPING
WAGD	WASTE ANESTHETIC GAS DISPOSAL PIPING
N	MEDICAL NITROGEN PIPING
N2O	MEDICAL NITROUS OXIDE PIPING
CO2	CARBON DIOXIDE PIPIING
IA	INSTRUMENT AIR
OSD	MEDICAL GAS PIPING DROPS IN WALL (FULL SIZE) TO WALL OUTLETS OR HEADWALL
	MASTER ALARM PANEL
	AREA ALARM PANEL
	ZONE VALVE BOX
	NITROGEN CONTROL PANEL
	PRESSURE/VACUUM SENSOR
	MAIN LINE PRESSURE/VACUUM GAUGE
	MEDICAL GAS AUXILIARY OUTLETS

MEDICAL GAS LEGEND

MAI = MEDICAL AIR INTAKE
MAP = MASTER ALARM PANEL
MGB = MEDICAL GAS CEILING BOOM
MGC = MEDICAL GAS CEILING COLUMN
MGD = MEDICAL GAS DROP
MGH = MEDICAL GAS HEADWALL
MGO = MEDICAL GAS WALL OUTLET
MGP = MEDICAL GAS PEDESTAL
MVE = MEDICAL VACUUM EXHAUST
NCP = NITROGEN CONTROL PANEL
IA = MEDICAL EQUIPMENT INSTRUMENT AIR (FOR BRAKES ON MEDICAL BOOMS)
LP N = LOW PRESSURE NITROGEN FOR BOOM BRAKES

MA = MEDICAL COMPRESSED AIR
MV = MEDICAL VACUUM
O = OXYGEN B
S = SLIDE
N = NITROGEN
N20 = NITROUS OXIDE
C02 = CARBON DIOXIDE GAS
WAGD = WASTE ANESTHETIC GAS DISPOSAL
AAP = AREA ALARM PANEL
ZVB = ZONE VALVE BOX





MEDICAL GAS NOTES:

A. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF MEDICAL GAS OUTLETS, ZONE VALVE BOXES AND ALARM PANELS.
B. NOT ALL GASES ARE TO BE USED AT EACH LOCATION. THE GAS ORDER SHOWN IN THE EXAMPLE IS TYPICAL FOR ALL OUTLETS.
C. COORDINATE MEDICAL GAS PIPE ROUTINGS WITH ALL OTHER TRADES BEFORE INSTALLATION.

Digitally signed by Joe Froggatt
DN: cn=Joe Froggatt, o=Devenney Group, ou=Devenney Group, c=US
Date: 2025.06.05 09:26:06 -05'00'
Joe Froggatt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/17/2025 9:17:13

Devenney GROUP

Devenney Group Ltd., Architects

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KANSAS CITY, MO 64105

STATE OF MISSOURI
MATTHEW SIMMONS
NUMBER PE-2017026134
PROFESSIONAL ENGINEER

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
A	CITY - 2ND REVIEW	2025/06/05
B	DESIGN COORDINATION	2025/06/05

DATE:	2025/04/18
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

GENERAL INFORMATION - PLUMBING

P00-00

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_ LSMC ED Expansion_R23.rvt
6/20/2025 4:12:34 PM

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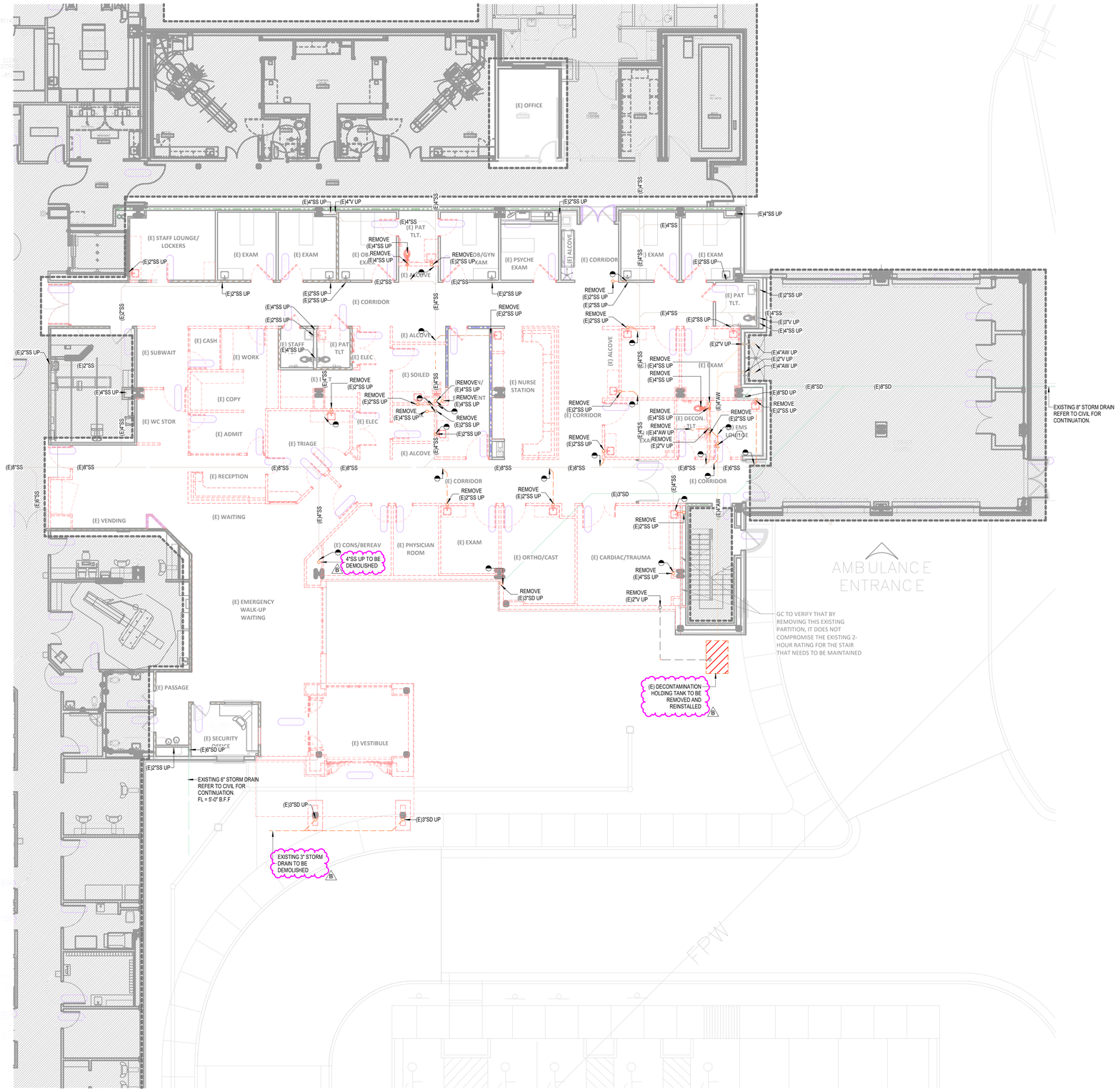
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
6/27/2025 9:17:13

GENERAL NOTES

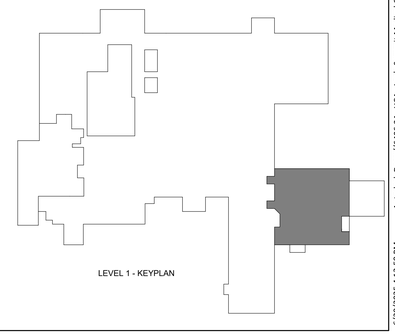
A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.
B. ORANGE DASHED PIPING REPRESENTS PIPING TO BE DEMOLISHED. B

LEGEND NOTES

1. REMOVE 2 WAY VALVE TO DIVERT FLOW TO SAN/DECONTAMINATION TANK.



1 DEMOLITION UNDERFLOOR PLAN - LEVEL 00 - PLUMBING
1/8" = 1'-0"



LEVEL 1 - KEYPLAN

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STATE OF MISSOURI
MATTHEW SIMMONS
NUMBER PE-2017026134
REGISTERED ENGINEER

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05

DATE:	2025/04/18
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DEMOLITION UNDERFLOOR PLAN - LEVEL 00 - PLUMBING

PD02-00

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6/20/2025 4:12:50 PM

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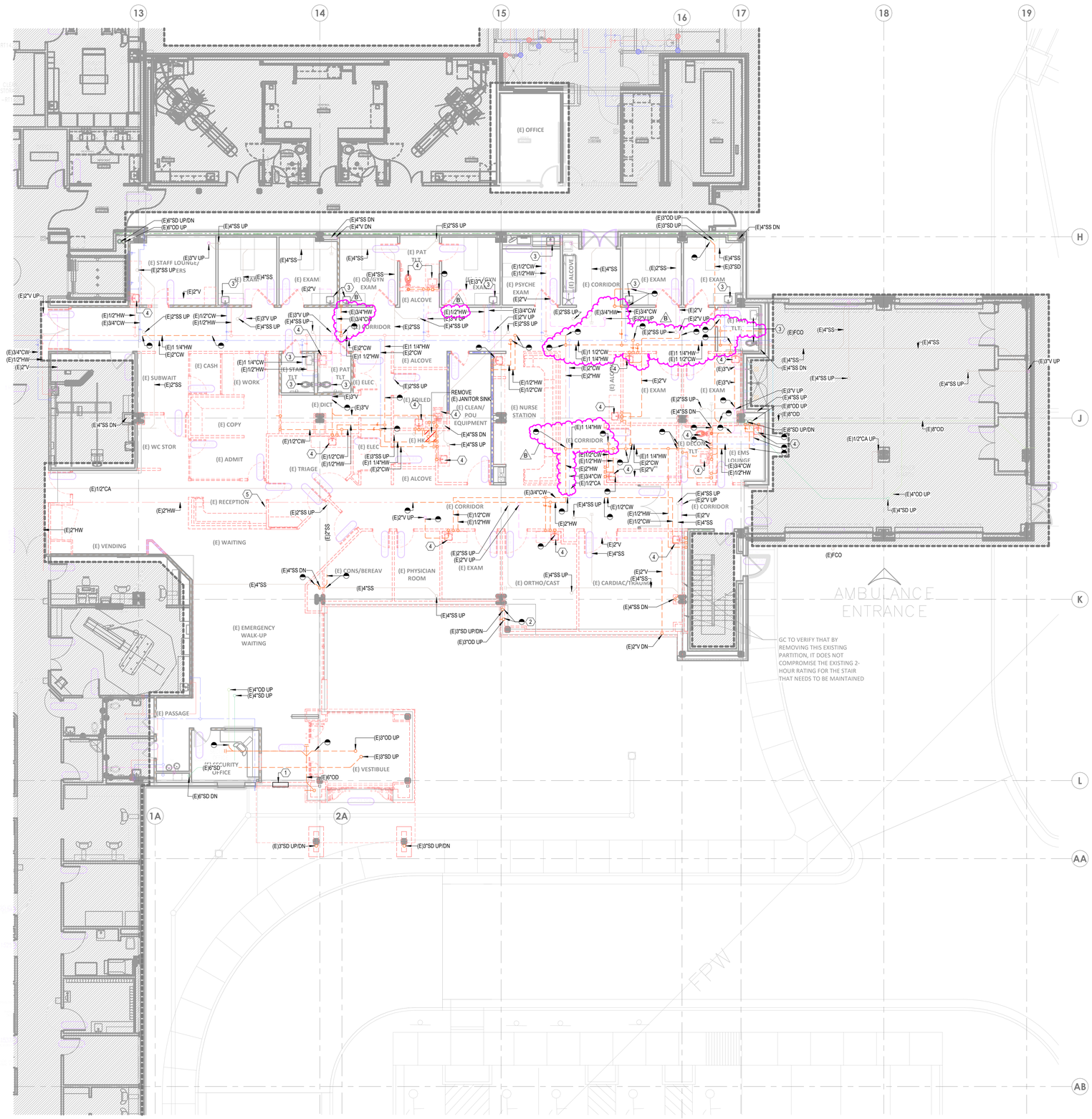
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
6/27/2025 9:17:14

GENERAL NOTES

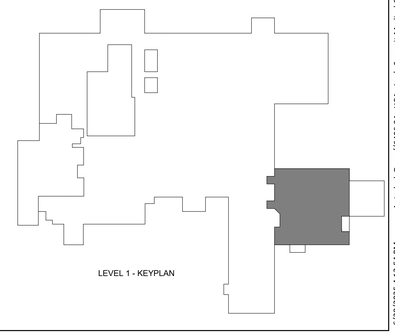
A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.
B. ORANGE DASHED PIPING REPRESENTS PIPING TO BE DEMOLISHED. (B)

(#) LEGEND NOTES

1. REMOVE EXISTING FIRE VALVE CABINET.
2. REMOVE PIPE TO THE FIRST FLOOR CEILING LEVEL.
3. EXISTING PLUMBING FIXTURES TO REMAIN.
4. REMOVE EXISTING PLUMBING FIXTURE WITH ALL ASSOCIATED WASTE AND SUPPLIES CAPPED.
5. EXISTING BOILER CONTROL PANEL TO BE RELOCATED.



1 DEMOLITION PLAN - LEVEL 01 - PLUMBING
1/8" = 1'-0"



LEVEL 1 - KEYPLAN

Devenney Group Ltd., Architects

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www.devenneygroup.com

Consultant:

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KANSAS CITY, MO 64105

STATE OF MISSOURI
MATTHEW SIMMONS
NUMBER PE-2017026134
PROFESSIONAL ENGINEER

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05

DATE:	2025/04/18
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DEMOLITION PLAN - LEVEL 01 - PLUMBING

PD02-01

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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6/30/2025 4:12:54 PM

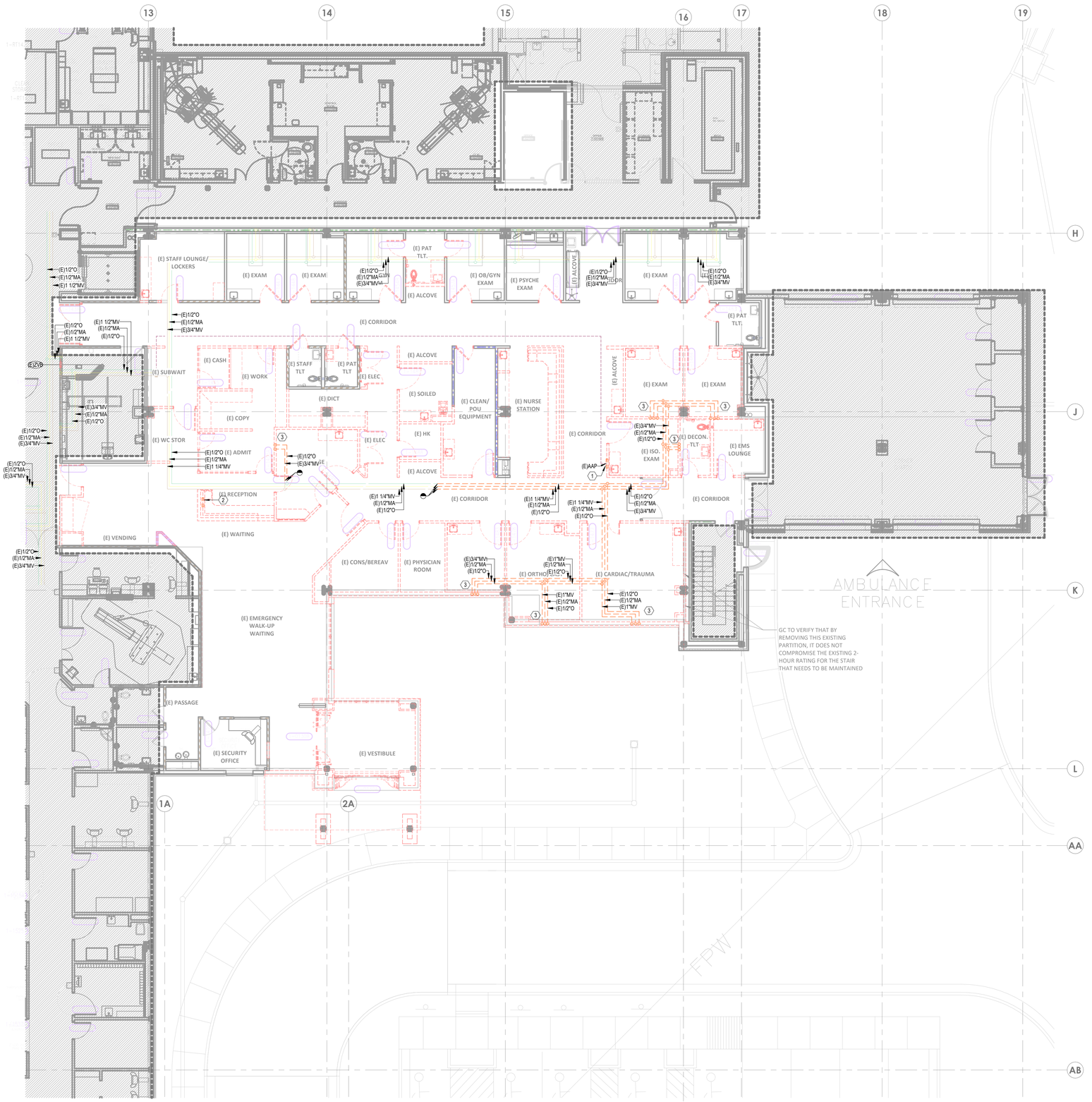
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:14

GENERAL NOTES

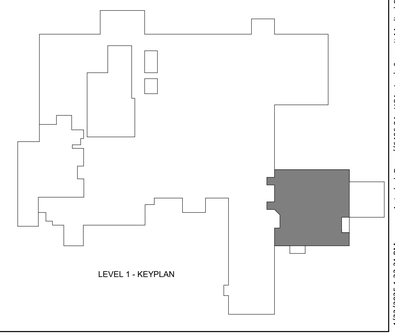
A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLES.

LEGEND NOTES

1. EXISTING AREA ALARM PANEL TO BE DEMOLISHED.
2. EXISTING MASTER ALARM CONTROL PANEL TO BE RELOCATED.
3. EXISTING MEDICAL OUTLETS TO BE DEMOLISHED.



1 DEMOLITION PLAN - LEVEL 01 - MEDICAL GAS
1/8" = 1'-0"



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JONATHAN DICKERT NUMBER PE-2012039309
PROFESSIONAL ENGINEER
STATE OF MISSOURI
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DEMOLTION PLAN - LEVEL 01 - MEDICAL GAS

PD03-01

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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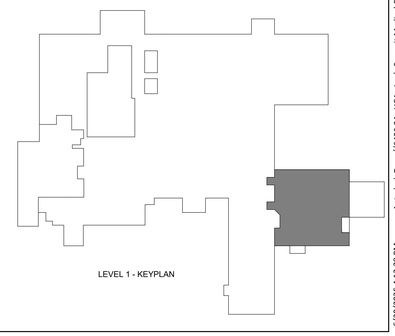
4/22/2025 1:33:31 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/17/2025 9:17:14

GENERAL NOTES

A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.
B. ORANGE DASHED PIPING REPRESENTS PIPING TO BE DEMOLISHED

1 UNDERFLOOR PLAN - LEVEL 00 - PLUMBING
1/8" = 1'-0"



LEVEL 1 - KEYPLAN

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Consultant:

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STATE OF MISSOURI
MATTHEW SIMMONS
NUMBER PE-2017026134
REGISTERED ENGINEER

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
A	CITY - 2ND REVIEW	2025/06/05
B	DESIGN COORDINATION	2025/06/05

DATE:	2025/04/18
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

UNDERFLOOR PLAN - LEVEL 00 - PLUMBING

P02-00

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6/20/2025 4:12:38 PM

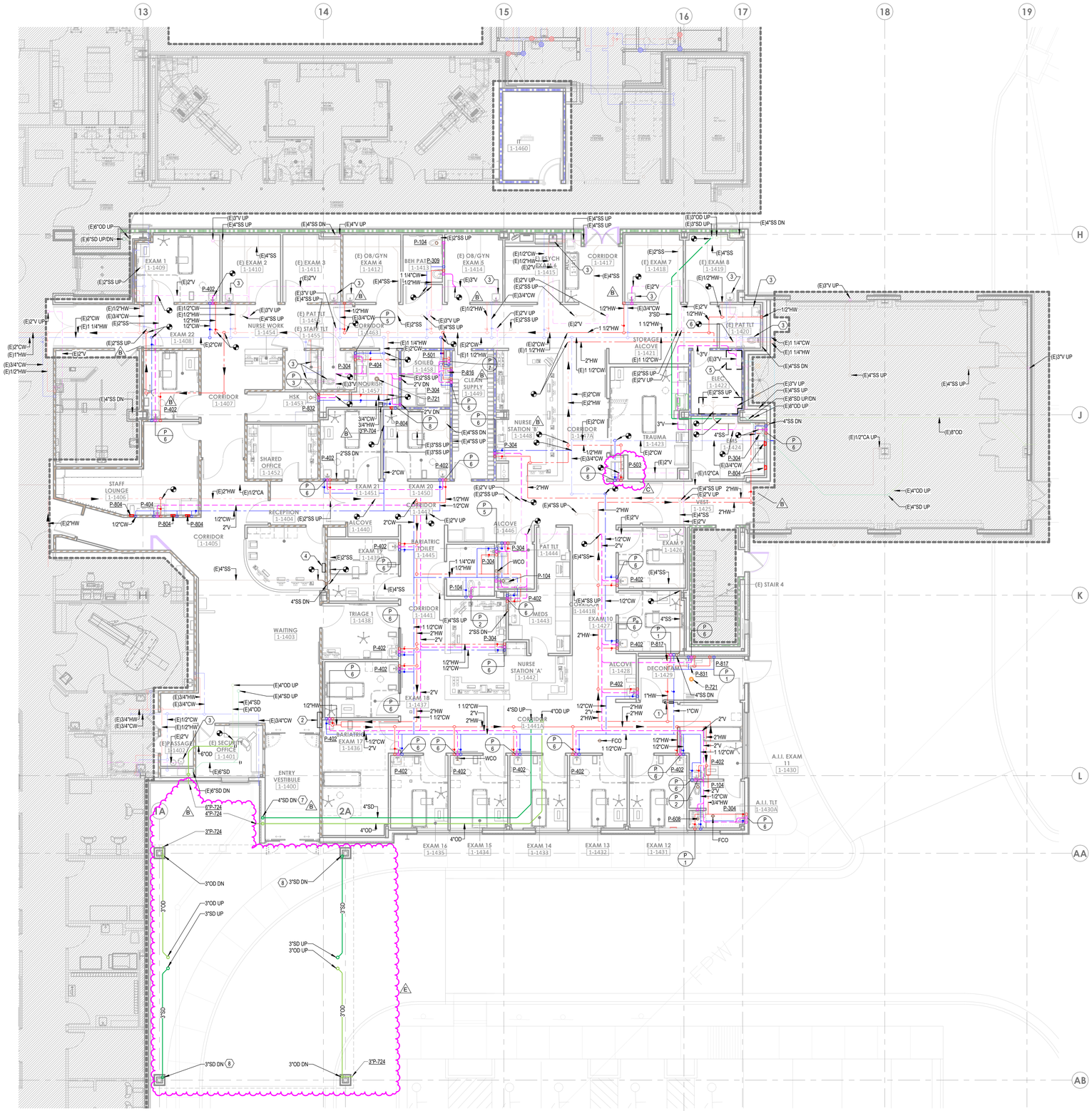
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
7/7/2025 9:17:14

GENERAL NOTES

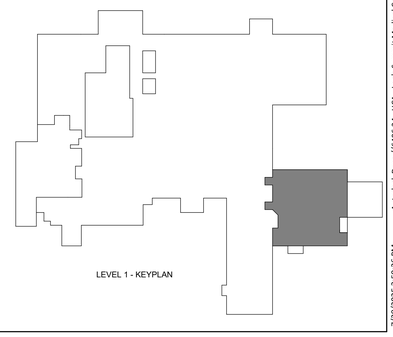
A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.
B. ORANGE DASHED PIPING REPRESENTS PIPING TO BE DEMOLISHED

LEGEND NOTES

1. DECONTAMINATION TANK ALARM PANEL.
2. FIRE VALVE CABINET.
3. EXISTING PLUMBING FIXTURE TO REMAIN.
4. RELOCATED BOILER CONTROL PANEL
5. INSTALL DRIP PAN BENEATH EXISTING PIPING LOCATED OVER NEW ELECTRICAL ROOM. INSTALL SENSOR IN DRIP PAN TO DETECT MOISTURE AND ALARM TO BUILDING MANAGEMENT SYSTEM.
6. CONNECT NEW 1-1/4" HW PIPING TO EXISTING 1-1/4" HW PIPING SERVING EXISTING DECONTAM SHOWER.
7. ROUTE 4"SD DOWN BELOW GRADE AND CONNECT TO CIVIL UTILITY PIPING. REFER TO CIVIL PLANS FOR CONTINUATION.
8. ROUTE 3"SD DOWN BELOW GRADE AND CONNECT TO CIVIL UTILITY PIPING. REFER TO CIVIL PLANS FOR CONTINUATION.



1 FLOOR PLAN - LEVEL 01 - PLUMBING
1/8" = 1'-0"



LEVEL 1 - KEYPLAN

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KANSAS CITY, MO 64105

JONATHAN DECKERT NUMBER PE-2012039309
08/06/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW COMMENTS	2025/07/30
E	DESIGN COORDINATION	2025/07/30

DATE:	2025/04/18
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 01 - PLUMBING

P02-01

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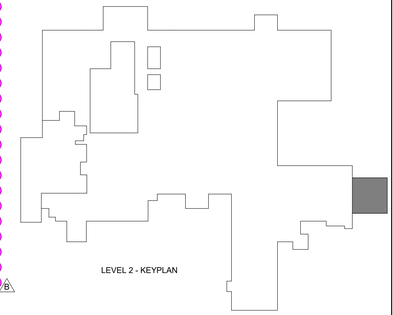
7/29/2025 3:59:26 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:14

GENERAL NOTES

A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLS.
B. ORANGE DASHED PIPING REPRESENTS PIPING TO BE DEMOLISHED

1 FLOOR PLAN - LEVEL 02 - PLUMBING
1/8" = 1'-0"



LEVEL 2 - KEYPLAN

Devenney Group Ltd., Architects

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Consultant:

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STATE OF MISSOURI
MATTHEW SIMMONS
NUMBER PE-2017026134
REGISTERED ENGINEER

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05

DATE:	2025/06/05
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 02 - PLUMBING

P02-02 B

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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6/20/2025 4:12:54 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:14

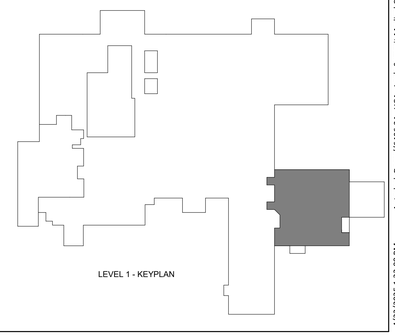
GENERAL NOTES

A. REFER TO P00-00 FOR GENERAL PLUMBING NOTES AND SYMBOLES.

LEGEND NOTES

1. AREA ALARM PANEL.
2. RELOCATED MASTER ALARM CONTROL PANEL.

1 FLOOR PLAN - LEVEL 01 - MEDICAL GAS
1/8" = 1'-0"



LEVEL 1 - KEYPLAN

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Consultant:

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KANSAS CITY, MO 64105

JONATHAN DICKERT NUMBER PE-2012039309
STATE OF MISSOURI
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 01 - MEDICAL GAS

P03-01

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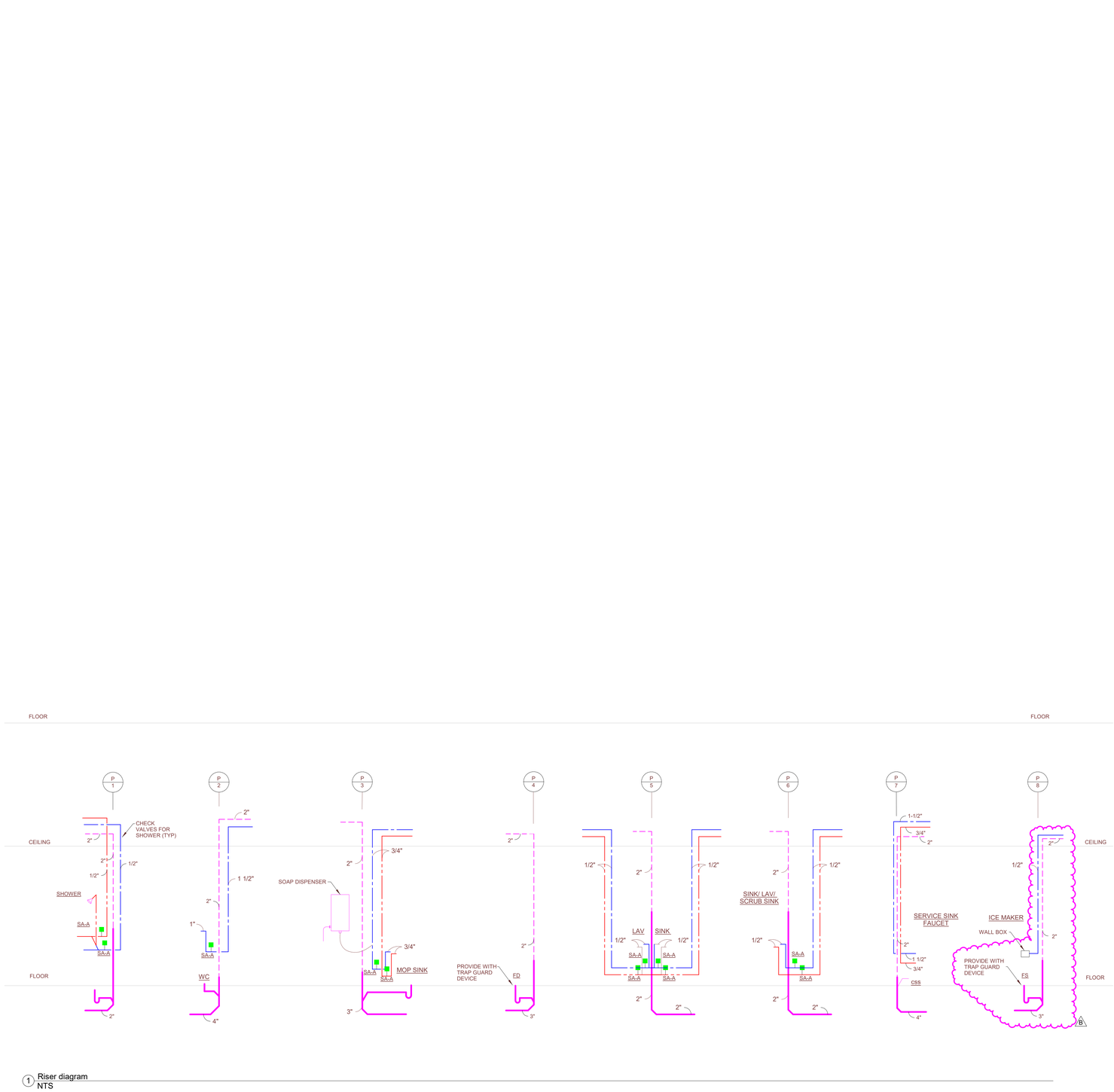
4/22/2025 1:33:00 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:14



1 Riser diagram
NTS

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STATE OF MISSOURI
MATTHEW SIMMONS
NUMBER PE-2017026134
PROFESSIONAL ENGINEER

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05

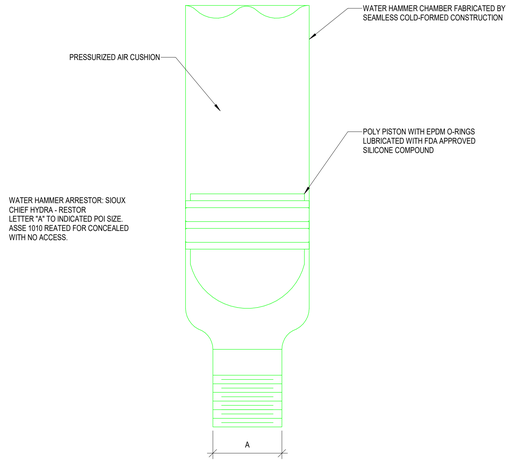
DATE:	2025/04/18
SCALE:	NTS
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

RISER DIAGRAM - PLUMBING

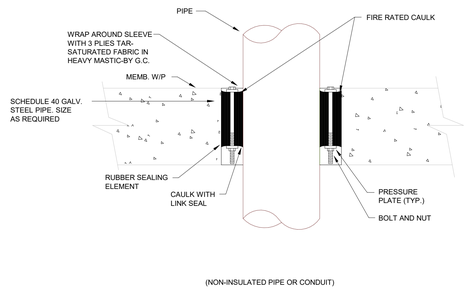
P06-01

6/20/2025 4:12:45 PM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC ED Expansion_R23.rvt

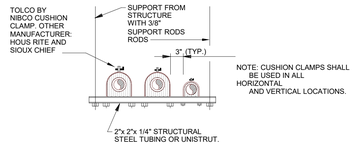
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:14



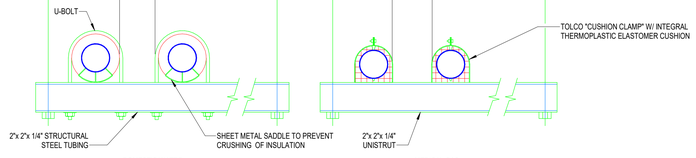
9 WATER HAMMER ARRESTOR (PISTON TYPE) DETAIL
NTS



6 PIPE SLEEVE THRU EXISTING FLOOR
NTS



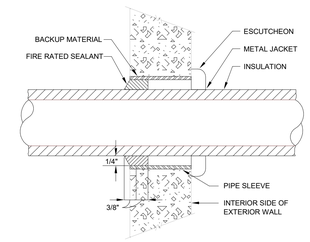
3 MEDICAL GAS PIPING DETAIL
NTS



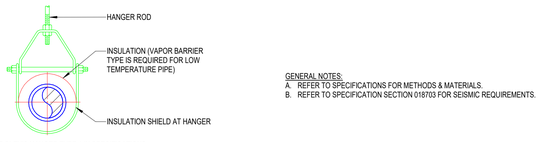
GENERAL NOTES:
A. REFER TO SPECIFICATIONS FOR METHODS & MATERIALS.
B. REFER TO SPECIFICATION SECTION 018703 FOR SEISMIC REQUIREMENTS.

8 TRAPEZE PIPE HANGER DETAILS
NTS

5 CLEANOUT DETAILS
NTS



2 INSULATED PIPE THRU WALL - ABOVE GRADE
NTS



GENERAL NOTES:
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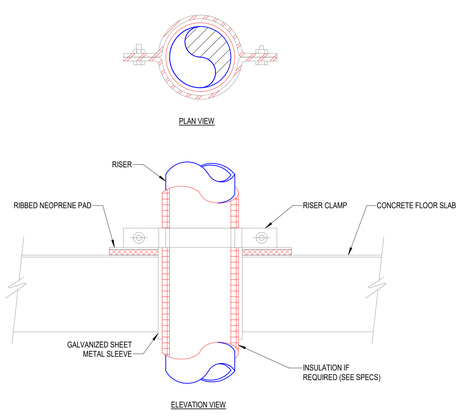
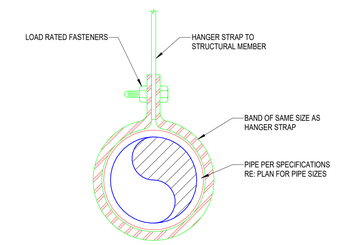
B. REFER TO SPECIFICATION SECTION 018703 FOR SEISMIC REQUIREMENTS.

7 PIPE SUPPORT DETAILS
NTS



4 TYPICAL FLOOR PENETRATION DETAIL
NTS



1 PIPE HANGER/SUPPORT DETAIL
NTS

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JONATHAN DICKERT NUMBER PE-2021039309 PROFESSIONAL ENGINEER STATE OF MISSOURI
04/18/2025
WSP USA Buildings Inc. 203001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	NTS
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DETAILS - PLUMBING

P07-01

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4/22/2025 1:33:06 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
7/7/2025 9:17:14

PLUMBING FIXTURE

HCA DESIG.	FIXTURE TYPE	SAN.SEWER	VENT	COLD WATER	HOT WATER	DESCRIPTION
P-104	WATER CLOSET ADA COMPLIANT PATIENT	4"	2"	1"	-	WATER CLOSET: ZURN MODEL No. Z5666-BWL-BA-AM (WHITE) FLUSH VALVE WATER CLOSET, VITREOUS CHINA, 16-3/4" RIM HEIGHT, 10" ROUGHING-IN, 1.6 GALLONS PER FLUSH, ELONGATED BOWL WITH BED PAN LUGS, DIRECT FED SIPHON JET ACTION, FULLY GLAZED TRAPWAY, 1½" TOP SPUD. FLUSH VALVE: ZURN MODEL No. Z-6011AV-AV-BWN-WS1 BEDPAN WASHER, 1.6 GPF, EXPOSED, QUIET DIAPHRAGM-TYPE, CHROME PLATED, FLUSHOMETER VALVE WITH A POLISHED EXTERIOR. CHLORAMINE RESISTANT, DUAL SEAL DIAPHRAGM WITH CLOG RESISTANT, TRIPLE FILTERED BY-PASS. ADA COMPLIANT WITH A NON-HOLD OPEN AND NO LEAK HANDLE FEATURE, BEDPAN WASHER ASSEMBLY WITH OFFSET FLUSH TUBE, WALL BRACKET AND SUPPORT ROD, HIGH BACK PRESSURE VACUUM BREAKER, ONE-PIECE BOTTOM HEX COUPLING NUT, ADJUSTABLE TAILPIECE 1" I.P.S. SCREWDRIVER BACK-CHECK ANGLE STOP, OFFSET FOR ADA APPLICATIONS, SPUD COUPLING AND FLANGE FOR 1½" TOP SPUD. SEAT: PROFLO MODEL No. PFTSCOF2000WH, WHITE OPEN SEAT FRONT LESS COVER, WITH SELF SUSTAINING CHECK HINGE.
P-304	LAVATORY - WALL HUNG ADA COMPLIANT PATIENT	2"	2"	1/2"	1/2"	LAVATORY: ZURN MODEL No. Z5344 WHITE 20X18 4CC WALL MOUNT WALL HUNG LAVATORY, VITREOUS CHINA. PATIENT. FAUCET: ZURN MODEL No. Z812A4-XL-FC1.5 SWING GOOSENECK SPOUT, WITH 1.5 GPM FLOW CONTROL IN BASE OF SPOUT, WITH 4" WRISTBLADE HANDLES. STRAINER AND TAILPIECE: PROFLO MODEL No. PFGD101 1-1/4" X 6" CP OFFSET GRID DRAIN AND TAILPIECE. P-TRAP: PROFLO MODEL No. PFPTB400 1-1/4" CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND. No. PF203WH TRAP WRAP KIT. STOPS AND RISERS: TWO PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS. CARRIER: ZURN MODEL Z1231 FLOOR MOUNTED CARRIER.
P-309	LAVATORY - WALL HUNG LIGATURE RESISTANT ADA COMPLIANT	2"	2"	1/2"	1/2"	LAVATORY: BRADLEY MODEL No. HSL-1-BIR-3-TMA-TC-AL-BRKT-S-CHROME-SAND SOLID SURFACE SINGLE STATION LAVATORY FAUCET: INTEGRAL BATTERY POWERED INFRARED SPRAYHEAD, WITH 0.5 GPM FLOW MIXING VALVE: THERMOSTATIC MIXING VALVE STRAINER AND TAILPIECE: INTEGRAL STRAINER AND TAILPIECE. P-TRAP: CHROME PLATED CAST BRASS BODY P-TRAP, WITH STAINLESS STEEL TRAP COVER STOPS AND RISERS: TWO PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-402	SINK SINGLE COMPARTMENT ADA COMPLIANT	2"	2"	1/2"	1/2"	SINK: ELKAY MODEL LRAD1919-55-3 TYPE 304 NICKEL BEARING STAINLESS STEEL, SELF RIMMING. 19-1/2" X 19" X 5-1/2" DEPTH ADA COMPLIANT WITH OFF-CENTERED OUTLET TO THE REAR. BOWL SIZE 16"x 13-1/2". 3-1/2" DRAIN AND "SOUND GUARD" UNDERCOATING. FAUCET: ZURN MODEL No. Z831B4-XL-FC 1.5, 8" FIXED CENTERS RIGID OR SWING GOOSENECK SPOUT, WITH 1.5 GPM FLOW CONTROL IN BASE OF SPOUT AND WITH 4" WRISTBLADE HANDLES. STRAINER/TAILPIECE: PROFLO MODEL No. PFWTS CHROME PLATED BRASS 4-1/2" WIDE STRAINER WITH PROFLO PFTP9100 17 GA FLANGED TAILPIECE. P-TRAP: PROFLO MODEL No. PFPTB403 1-1/2 17 GA CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: TWO PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-404	SINK SINGLE COMPARTMENT ADA COMPLIANT	2"	2"	1/2"	1/2"	SINK: ELKAY MODEL LRAD-1919-55-3 TYPE 304 NICKEL BEARING STAINLESS STEEL, SELF RIMMING. 19-1/2" X 19" X 5-1/2" DEPTH ADA COMPLIANT WITH OFF-CENTERED OUTLET TO THE REAR. BOWL SIZE 16"x 13-1/2". 3-1/2" DRAIN AND "SOUND GUARD" UNDERCOATING. FAUCET: ZURN MODEL No. Z7870C-XL-C, 8" FIXED CENTERS SINGLE HANDLE KITCHEN FAUCET, WITH 2.2 GPM FLOW RATE. STRAINER/TAILPIECE: PROFLO MODEL No. PF151ACP BASKET DRAIN WITH 1-1/2" 20 GAUGE TAILPIECE. P-TRAP: PROFLO MODEL No. PFPTB403 1-1/2 17 GA CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: TWO PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS.
P-501	CLINICAL SERVICE SINK	4"	2"	1-1/2"	3/4"	CLINICAL SERVICE SINK: ZURN MODEL Z5410 WALL MOUNTED, VITREOUS CHINA CLINIC SERVICE SINK. VITREOUS CHINA, INTEGRAL FLUSHING RIM. FLUSHING ACTION AND 1-1/2 " TOP SPUD. STAINLESS STEEL RIM GUARD. FLUSH VALVE & FAUCET: ZURN MODEL Z6011AV-AV-HI FLUSH VALVE (FRONT ACCESS); ZURN MODEL Z843D4-2XT-LVB-PE-FT-XJ FAUCET WINTEGRAL VAC BRKR, CHECK STOPS AND SERVICE STOPS. BEDPAN WASHER: ZURN MODEL Z85500WM-XL-EVB-HK-SE-SH2-VC WALL MOUNTED BEDPAN WASHER COMBINATION WITH FOOT PEDAL MIXING VALVE, LOOSE-KEY STOPS, ELEVATED VACUUM BREAKER, 69" WHITE VINYL REINFORCED HOSE WITH CHROME PLATED BRASS WALL FLANGE, SUPPLY ELL, SPRAY HANDLE AND WALL HOOK CARRIER: ZURN Z-1217-B HEAVY DUTY CARRIER.INSTALL 30" FROM RIM TO FINISHED FLOOR.
P-503	SCRUB SINK SENSOR OPERATED	2"	2"	1/2"	1/2"	SINK: ZURN MODEL Z5468AM VITREOUS CHINA SCRUB SINK, CONCEALED WALL HANGERS AND SUPPORT BRACKETS. FAUCET: ZURN MODEL No. Z6920-XL-ADM2-H4-FC1.5 ADA COMPLIANT, BATTERY POWERED, CHROME PLATED SENSOR FAUCET. FLOW RATE 1.5 GPM FLOW CONTROL IN BASE OF SPOUT, OCCUPANT DETECTION INFRARED CONVERGENCE-TYPE PROXIMITY SENSOR 30 SECOND TIME OUT FEATURE, SPOUT MODULE CHROME PLATED CAST BRASS, IN-LINE FILTER, ABOVE DECK MIXER WITH WRIST BLADE HANDLE AND 8" COVER PLATE. STRAINER/TAILPIECE: ZURN MODEL No. Z5460-DRAIN-V2 CP STRAINER WITH TAILPIECE. P-TRAP: PROFLO MODEL No. PFPTB403 CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND. STOPS AND RISERS: TWO PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 1/2" CP ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS. CARRIER: ZURN Z1224-2 CARRIER WITH BEARING PLATE ASSEMBLY.
P-608	SHOWER (SOLID SURFACE)	2"	2"	1/2"	1/2"	ENCLOSURE: 36"SOLID SURFACE BASE WITH CENTER DRAIN. WALLS, GRAB BAR, SOAP DISH, FOLD UP SEAT FURNISHED BY OTHERS. INPRO E3636LCCDB0 36"X36" LOW CURB SHOWER BASE, CENTER DRAIN, BONE. FAUCET: SYMMONS No. SYM9605-PLR-X-231 PRESSURE BALANCING SHOWER VALVE, ADA COMPLIANT, DIVERTER WITH VOLUME CONTROL, INTEGRAL SERVICE STOPS AND LEVER HANDLE. SUPER SHOWER HEAD WITH ARM AND FLANGE. ADA HAND HELD SHOWER, INLINE VACUUM BREAKER, 60" HOSE AND 36" SLIDE BAR. INSTALL FAUCET ASSEMBLY OFFSET AS DIRECTED BY THE ADA RULES. DRAIN: PROFLO PF-140NC CP DRAIN.
P-704	FLOOR SINK	AS NOTED ON PLANS	-	-	-	ZURN MODEL ZN-1901-KC, SANI-FLOR RECEPTOR 12" x 12" x 8" DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY FULL GRATE WITH 1/2" SLOTTED OPENINGS, WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.
P-710	ROOF DRAIN	AS NOTED ON PLANS	-	-	-	ZURN MODEL ZA-100-DR, 15" DIAMETER ROOF DRAIN. DURA-COATED IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE ALUMINUM DOME.
P-711	OVERFLOW DRAIN	AS NOTED ON PLANS	-	-	-	ZURN MODEL ZA-100-W2-DR, 15" DIAMETER ROOF DRAIN. DURA-COATED IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE ALUMINUM DOME AND 2" INTERNAL WATER DAM.
P-721	FLOOR DRAIN DECON	AS NOTED ON PLANS	-	-	-	ZURN MODEL Z-550-NL-AR-P-Y, ROUND, ACID RESISTANT EPOXY COATED CAST IRON BODY WITH NEO-LOC BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR MEDIUM-DUTY SLOTTED GRATE. SEDIMENT BUCKET AND TRAP PRIMER CONNECTION.
P-724	DOWNSPOUT NOZZLE	AS NOTED ON PLANS	-	-	-	ZURN MODEL ZARB199-IP-SS, ALL PLAIN BRONZE BODY DOWN SPOUT NOZZLE WITH THREADED INLET AND REMOVABLE STAINLESS SCREEN.
P-804	ICE MAKER BOX	-	-	1/2"	-	ORTEV MODEL 63140 20 GAUGE STEEL ICE MAKER BOX WITH 1/4 TURN BALL VALVE AND WATER HAMMER ARRESTOR, LOW LEAD COMPLIANT.
P-816	EMERGENCY EYEWASH	-	-	1/2"	1/2"	EYEWASH: BRADLEY MODEL S1944011ABC, WALL MOUNTED HAND HELD EMERGENCY EYE/FACE WASH. STAYS OPEN CONTROL VALVE. REINFORCED THERMOPLASTIC 12' HOSE. DUAL SPRAY HEADS WITH DUST COVERS. FLOW RATE: 3.9-5.9 GPM. MIXING VALVE: BRADLEY S19-2000 THERMOSTATIC MIXING VALVE. CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT, COLD WATER BY-PASS, DIAL THERMOMETER.
P-817	DECONTAM SHOWER INTERIOR	-	-	1/2"	1/2"	FAUCET: SYMMONS No. 125-VT-FSX-72 VISU-TEMP PRESSURE BALANCING SHOWER VALVE, INTEGRAL SERVICE STOPS AND LEVER HANDLE. HAND HELD SHOWER, INLINE VACUUM BREAKER, 72" HOSE AND ATTACHMENT HOOKS. MIXING VALVE: BRADLEY S19-2000 THERMOSTATIC MIXING VALVE. CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT, COLD WATER BY-PASS, DIAL THERMOMETER.
P-831	LAVATORY - WALL HUNG FAUCET/EYE WASH COMBINATION ADA COMPLIANT	2"	2"	1/2"	1/2"	LAVATORY: ZURN MODEL No. Z5348 20X18 WALL MOUNT VITREOUS CHINA LAVATORY, VITREOUS CHINA. BARRIER FREE. FAUCET AND MIXING VALVE: SPEAKMAN MODEL No. SEF1800-CA-LF-TW RIGID GOOSENECK SPOUT WITH INDEPENDENTLY OPERATED EYEWASH, WITH 1.5 GPM LAMINER FLOW CONTROL, WITH 4" WRISTBLADE HANDLES. STRAINER AND TAILPIECE: PROFLO MODEL No. PFGD100 1-1/4" X 6" CP GRID DRAIN AND TAILPIECE. P-TRAP: PROFLO MODEL No. PFPTB400 CHROME PLATED CAST BRASS BODY P-TRAP, TUBULAR BRASS WALL BEND AND No. PF202WH TRAP WRAP KIT. STOPS AND RISERS: PFXQAC32C LEAD FREE 1/4 TURN CHROME PLATED BRASS ANGLE STOPS, TWO PFE7 ESCUTCHEONS AND TWO PFX146324 20" FLEXIBLE STAINLESS STEEL RISERS. CARRIER: ZURN MODEL Z1231 FLOOR MOUNTED CARRIER
P-832	JANITOR SINK AND EYEWASH	3"	2"	3/4"	3/4"	MOP SINK: STERN WILLIAMS #SB-902, 24" X 24" X 12" SQUARE TERRAZZO MOP SINK WITH STAINLESS STEEL CAP, SS RIM GAURDS AND PROFLO PFWG24S SS WALL GUARDS FOR 24X24 MOP BASIN FAUCET:SPEAKMAN SEF9000-TW EYEWASH FAUCET AND MIXING VALVE TRANNNER/TAILPIECE:STERN-WILLIAMS TC37CNH GASKET. DRAIN: STERN WILLIAMS STC2NH MOP SINK GASKET FOR CAST IRON PIPE. AT EACH MOP SINK LOCATION PROVIDE A 1/2" REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) ON A HOT WATER LINE ADJACENT TO THE MOP SINK FOR CONNECTION TO A SOAP MACHINE.

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STATE OF MISSOURI
JONATHAN DECKERT NUMBER PE-2021039309
PROFESSIONAL ENGINEER
08/06/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
E	DESIGN COORDINATION	2025/07/30

DATE:	2025/04/18
SCALE:	
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

SCHEDULES - PLUMBING

P08-01

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC ED Expansion_R23.rvt
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:14

GENERAL NOTES - ALL HVAC SHEETS

A. ALL MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR MECHANICAL AND PLUMBING CONSTRUCTION.

B. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.

C. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.

D. COORDINATE THE EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT WITH THE LOCATIONS OF LIGHT FIXTURES, PIPING, CONDUIT, AND OTHER CONSTRUCTION, TO ALLOW FOR PROPER ACCESS TO SERVICE EQUIPMENT.

E. COORDINATE THE LOCATION OF DUCTWORK AND PIPING WITH OTHER TRADES AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED.

F. IT IS THE INTENT OF THESE DOCUMENTS TO ALLOW ALL CEILING CONSTRUCTION AND HEIGHTS TO BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE THE LOCATION OF DUCTWORK AND PIPING AND PROVIDE OFFSETS IN DUCTWORK AND PIPING AS REQUIRED TO MEET THIS INTENT.

G. CONDUIT, PIPING, AND DUCTWORK SHALL BE INDEPENDENTLY SUPPORTED, AND EACH SUPPORT SHALL BE INDEPENDENT OF PARTITION AND CEILING SYSTEM SUPPORTS. WHERE INDEPENDENT SUPPORT IS NOT POSSIBLE AN ENGINEERED SUPPORT SYSTEM SHALL BE UTILIZED.

H. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON PADS AS SPECIFIED. PAD BY GENERAL CONTRACTOR. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

I. ALL WORK SHALL BE SCHEDULED AND PERFORMED IN STRICT COORDINATION WITH ARCHITECTURAL PHASING PLANS AND WITH HOSPITAL SCHEDULES, OCCUPANCIES, AND WORK.

J. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.

K. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.

L. CONTRACTOR SHALL VISIT JOBSITE AND VERIFY SIZE AND LOCATION OF ALL EXISTING ITEMS AND CONDITIONS.

M. ALL CONNECTION BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS.

N. CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.

O. ALL EXISTING FACILITIES SHALL BE PROTECTED DURING THE CONSTRUCTION ACTIVITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE AND STORE ITEMS WHICH ARE SUBJECT TO DAMAGE.

P. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL GRILLE, DIFFUSER, AND THERMOSTAT LOCATIONS.

Q. COORDINATE ALL AIR DEVICE LOCATIONS AND MOUNTING FRAME STYLES WITH LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS.

R. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.

S. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.

T. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

U. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK, ETC. AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

V. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE COORDINATED WITH THE HOSPITAL REPRESENTATIVE.

W. DUCT SIZES ARE NET FREE AREA.

X. PROVIDE ROUND DUCTS TO ALL AIR DEVICES UNLESS NOTED OTHERWISE. DUCT SIZE SHALL MATCH AIR DEVICE NECK SIZE OR THE TABLE IN AIR DEVICE SCHEDULE, WHICHEVER IS LARGER. FLEXIBLE DUCTS SHALL BE SIZED SIMILARLY. DO NOT USE FLEXIBLE DUCTS ABOVE NON-LAYIN CEILINGS.

Y. TERMINAL BOX INLET DUCTS: SIZE THE RUNOUT DUCT AND ITS TAP AT MAIN TRUCK PER VAV BOX SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.

Z. TERMINAL BOX OUTLET DUCTS: SIZE THE LOW PRESSURE OUTLET DUCT TO BE SIZE OF TERMINAL BOX DISCHARGE UNLESS NOTED OTHERWISE ON PLANS.

AA. MATCH THE SIZE INDICATED ON DRAWINGS. OUTLET PLENUM SIZES THAT ARE NOT INDICATED ON DRAWINGS SHALL MATCH THE TABLE IN THE APPLICABLE TERMINAL UNIT SCHEDULE.

AB. PROVIDE FRAMED 0.5" BY 0.5" BIRD SCREEN (GALVANIZED STEEL ASSEMBLY) AT ALL DUCTS TERMINATING WITHOUT AN AIR DEVICE, AND AT UNDUCTED AIR FLOW OPENINGS AT EQUIPMENT. PROVIDE 0.5" BY 0.5" BIRD SCREEN (3/16 STAINLESS STEEL) AT ALL INDOOR FACE OF LOUVERS AND UNDUCTED AIR FLOW OPENINGS TO EQUIPMENT HANDLING OUTSIDE AIR.

AC. PROVIDE MANUAL VOLUME DAMPER IN EACH AIR DEVICE RUNOUT DUCT AS FAR FROM AIR DEVICE AS POSSIBLE.

AD. INSTALL SPACE THERMOSTAT ADJACENT TO LATCH SIDE OF DOOR IN SPACE INDICATED.

AE. INDICATED SPACE THERMOSTAT LOCATIONS ARE APPROXIMATE. AVOID HEAT PRODUCING EQUIPMENT.

AF. FINAL SPACE THERMOSTAT/SENSOR LOCATIONS SHALL BE AS DIRECTED BY THE ARCHITECT.

AG. INSTALL HUMIDISTATS IN SIMILAR FASHION.

AH. INSTALL TURNING VANES IN ALL 90 DEGREE SQUARE ELLS IN SUPPLY, RETURN, AND EXHAUST DUCTS. (NONE ALLOWED IN COMBUSTION AIR DUCTS).

AI. LOCATE ISOLATION VALVES FOR EQUIPMENT AS CLOSE TO THE MAIN AS POSSIBLE.

AJ. PROVIDE CONDENSATE DRAIN PIPING FROM ALL COOLING COILS TO DRAIN.

AK. MULTI-BLADE DAMPERS OF ANY TYPE INSTALLED WITHIN 36" OF AN ELL OR OTHER FITTING SHALL BE INSTALLED WITH THE DAMPER BLADE SHAFTS PARALLEL TO THE AIRSTREAM FLOW DIRECTION UPSTREAM OF THE FITTING.

AL. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES OF 42" DEEP AND 30" WIDE IN FRONT OF EQUIPMENT.

AM. ALL FIRE AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION DETAILS AND BE U.L. TESTED AND LISTED.

AN. FULLY INTEGRATE ALL NEW CONTROLS WITH ALL EXISTING / MODIFIED EQUIPMENT BACK TO NEW BAS AND ENGINEER'S WORKSTATION IN RENOVATION PROJECT.

AO. PROVIDE FILTER GAUGE ACROSS EACH FILTER BANK SERVING CENTRAL AIR SYSTEMS. THE GAUGE SHALL BE RED LINED OR A FILTER ALARM LIGHT INSTALLED TO SIGNAL WITH THE RECOMMENDED MAXIMUM STATIC PRESSURE DROP HAS BEEN REACHED. USE MAXIMUM STATIC PRESSURE AS RECOMMENDED BY FILTER MANUFACTURER.

AP. PIPE CONNECTIONS LESS THAN 2-1/2" TO HEATING COILS, COOLING COILS, HUMIDIFIERS AND SIMILAR EQUIPMENT SHALL HAVE FLEXIBLE CONNECTORS OR THREE 90-DEGREE OFFSETS IN CLOSE PROXIMITY OF THE CONNECTION.

AQ. CONTRACTOR SHALL RE-INSPECT RECOMMENDED CONNECTION POINTS AFTER DEMOLITION PHASE TO ENSURE TIE-IN POINTS ARE ADEQUATE FOR RENOVATION SYSTEMS.

AR. CONTRACTOR SHALL TEST AND BALANCE ALL EXISTING SYSTEMS THAT ARE TO BE CONNECTED TO FOR THE RENOVATION PHASE PRIOR TO INSTALLING NEW WORK AND DOCUMENT VALUES. CONTRACTORS SHALL RE-TEST AND BALANCE EXISTING SYSTEMS AFTER CONNECTION TO ENSURE ALL DOWN STREAM SYSTEMS ARE PROVIDED THE SAME PERFORMANCE AFTER CONSTRUCTION.

AS. ALL DISCONNECTS DOWN STREAM OF VFDS SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPEN.

GENERAL PIPING NOTES

A. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS SET OF PLANS. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.

B. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.

C. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

D. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

E. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES, AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.

F. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE IN A TIMELY MANNER AS TO MINIMIZE THE DISRUPTION TO THE FACILITY.

G. ARCHITECT SHALL HAVE FINAL APPROVAL OF ALL THERMOSTAT LOCATIONS.

H. G.C. TO PROVIDE ACCESS DOORS IF REQUIRED FOR ACCESS TO VAV'S AND ANY VALVES THAT ARE NOT ACCESSIBLE. VERIFY SIZE AND LOCATIONS WITH MECHANICAL CONTRACTOR.

I. CONTRACTOR SHALL RE-INSPECT RECOMMENDED CONNECTION POINTS AFTER DEMOLITION PHASE TO ENSURE TIE-IN POINTS ARE ADEQUATE FOR RENOVATION SYSTEMS.

J. CONTRACTOR SHALL TEST AND BALANCE ALL EXISTING SYSTEMS THAT ARE TO BE CONNECTED TO FOR THE RENOVATION PHASE PRIOR TO INSTALLING NEW WORK AND DOCUMENT VALUES. CONTRACTORS SHALL RE-TEST AND BALANCE EXISTING SYSTEMS AFTER CONNECTION TO ENSURE ALL DOWN STREAM SYSTEMS ARE PROVIDED THE SAME PERFORMANCE AFTER CONSTRUCTION.

K. CONTRACTOR SHALL COORDINATE ALL SLAB PENETRATIONS WITH EXISTING WAFFLE SLAB RIDGES AND BEAMS.

GENERAL DEMOLITION NOTES

A. ALL CAPPED DUCT TAPS AND CONNECTING DUCTS THAT ARE NOT BEING USED ARE TO BE REMOVED BACK TO THE MAIN DUCT AND PATCHED AS PER ITEM B BELOW.

B. PATCH OPENINGS IN EXISTING DUCTWORK THAT IS TO REMAIN INCLUDING OPENINGS. WHERE TAPS OR DUCTWORK ARE TO BE REMOVED, THE FOLLOWING SHALL OCCUR:

1. OPENINGS IN THE MAIN DUCTS ARE TO BE COVERED WITH A SHEET METAL PATCH. THE PATCH IS TO BE LARGER THAN THE EXISTING OPENING AND IS TO BE SECURED WITH SHEET METAL SCREWS FOUR INCHES ON CENTERS.

2. A LIBERAL QUANTITY OF FIRE RESISTANT ADHESIVE IS TO BE APPLIED TO THE EDGES OF THE METAL PATCH AND THE ASSEMBLY SCREWED IN PLACE.

C. REFER TO THE ARCHITECTURAL PHASING PLAN FOR THE AREAS SHOWN ON THIS PLAN. WORK SHALL BE SCHEDULED AND PERFORMED IN SEQUENCE WITH THE PHASING PLAN.

D. DEMOLITION OF EACH PHASE SHALL OCCUR AS PART OF THE WORK FOR THAT PHASE. REMOVE ONLY THE WORK THAT SERVES THE AREA OF DEMOLITION.

E. PROVISIONS SHALL BE MADE BY THE CONTRACTOR TO PREVENT DISRUPTING ADJACENT AREAS OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

F. PROVIDE ADDITIONAL VALVES, TAPS, TEMPORARY DUCTWORK AND/OR PIPING AS NECESSARY TO PROVIDE UNINTERRUPTED SERVICE TO AREAS OUTSIDE OF THE PHASE IN WHICH WORK IS BEING PERFORMED.

G. ALL WORK SHALL BE PERFORMED IN STRICT COORDINATION WITH HOSPITAL SCHEDULES, OCCUPANCIES AND WORK. CONTRACTOR SHALL COORDINATE WITH HOSPITAL REPRESENTATIVE.

H. ALL NECESSARY SHUTDOWNS OR OUT OF PHASE WORK SHALL BE SCHEDULED WITH THE HOSPITAL REPRESENTATIVE.

I. FOR ALL MINOR RENOVATION AREAS, THE CONTRACTOR IS TO UNDERTAKE A FULL PRE-TAB OF ALL GRILLES AND DIFFUSERS WITHIN THE AREAS PRIOR TO DEMOLITION. THE REPORT SHOULD BE SENT TO THE EOR. UPON COMPLETION OF THE GRILLE/DIFFUSER REPLACEMENTS IN THESE AREAS, THE CONTRACTOR IS REQUIRED TO RE-BALANCE THE SYSTEM BACK TO THE VALUES DOCUMENTED WITHIN THE PRE-TAB REPORT. PLEASE NOTE THE PRE-TAB IS TO BE PERFORMED PRIOR TO ANY WORK ASSOCIATED WITH THE RESPECTIVE SYSTEMS BEING UNDERTAKEN.

FIRE ALARM SEQUENCE OF OPERATION

UPON FIRE ALARM ALL HANDLING UNITS AND ASSOCIATED EXHAUST FANS SHALL SHUT DOWN BASED ON THEIR RESPECTIVE SMOKE COMPARTMENTS. ALL ISOLATION EXHAUST FANS TO REMAIN IN OPERATION. ALL ASSOCIATED SMOKE AND COMBINATION FIRE/SMOKE DAMPERS SERVING SYSTEMS THAT SHUT OFF UPON FIRE ALARM SHALL CLOSE DURING FIRE ALARM.

DESIGN CRITERIA

LOCATION: CITY/STATE	LEE'S SUMMIT, MISSOURI
APPLICABLE CODES:	
BUILDING	2018 IBC
MECHANICAL	2018 IMC
PLUMBING	2018 IPC
ELECTRICAL	2017 NEC
FIRE	2018 IFC
FACILITY GUIDELINES INSTITUTE	2014 FGI
LATITUDE: DEG. N. LAT.	38.9
LONGITUDE: DEG. W. LONG.	94.3
ELEVATION: FT. ABOVE SEA LEVEL	997
ASHRAE SUMMER DESIGN CONDITIONS:	
0.4% DRY BULB	89.9 °F
0.4% WET BULB	79.5 °F
ASHRAE WINTER DESIGN CONDITIONS	
99.6% WET BULB	4.5 °F
HCA DESIGN CRITERIA	-5.5 °F
BUILDING SPACE DESIGN TEMPERATURES	
SUMMER DB	72°F
WINTER DB	68°F
SUPPLY AIR TEMPERATURE: DEG. F. DRY BULB	52°F

MECHANICAL ABBREVIATIONS

AC	ABOVE CEILING	GEF	GENERAL EXHAUST FAN
AFF	ABOVE FINISHED FLOOR	HW	HEATING HOT WATER
AHU	AIR HANDLING UNIT	IBT	INVERTED BUCKET TRAP
AI	ANALOG INPUT	IN HG	INCHES MERCURY (PRESSURE)
AO	ANALOG OUTPUT	IN WC	INCHES WATER COLUMN (PRESSURE)
BF	BELOW FLOOR, BLIND FLANGE	LE	LAUNDRY EQUIPMENT
BFC	BELOW FINISHED CEILING	MA	MIXED AIR
BG	BELOW GRADE	MVD	MOTORIZED VOLUME DAMPER
BV	BUTTERFLY VALVE	N	NEW
CHW	CHILLED WATER	OA	OUTSIDE AIR
CRAC	COMPUTER ROOM AC UNIT	OBD	OPPOSED BLADE DAMPER
CRU	CONDENSATE RETURN UNIT	PRV	PRESSURE RELIEF VALVE
CU	CONDENSING UNIT	R	RELOCATED
DI	DIGITAL INPUT	RA	RETURN AIR
DO	DIGITAL OUTPUT	RCA	RECIRCULATED (RETURN) AIR
DS	DISCONNECT SWITCH	RLA	RELIEF AIR
E	EXISTING	SA	SUPPLY AIR
EDH	ELECTRIC DUCT HEATER	SF	SUPPLY FAN
EUH	ELECTRIC UNIT HEATER	SV	SAFETY VALVE
EA	EXHAUST AIR	TAV	THERMOSTATIC AIR VENT (STEAM SYSTEM)
EF	EXHAUST FAN	UH	UNIT HEATER
FCU	FAN COIL UNIT	UNO	UNLESS NOTED OTHERWISE
FMB	FILTER MIXING BOX	VAV	VARIABLE AIR VOLUME
FPB	FAN POWERED BOX	VD	VOLUME DAMPER
FPI	FINS PER INCH	WH	WATER HEATER
GC	GENERAL CONTRACTOR	WHP	WATER-SOURCE HEAT PUMP

CONTROL DIAGRAM SYMBOLS

SYMBOLS	DESCRIPTION
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
TT-X	TEMPERATURE TRANSMITTER #X
HT-X	RELATIVE HUMIDITY TRANSMITTER #X
V-X	CONTROL VALVE #X
SPT-X	STATIC PRESSURE TRANSMITTER #X
ESC-X	END SWITCH, NORMALLY CLOSED #X
ESO-X	END SWITCH, NORMALLY OPEN #X
TS-X	TEMERATURE SENSOR #X
SD-X	SMOKE DETECTOR #X
OL	OVERLOAD RELAY #X
DPS-X	DIFFERENTIAL PRESSURE SENSOR #X
CSR-X	CURRENT SENSING RELAY #X
FM-X	FLOW METER #X
FS-X	FLOW SWITCH #X
EAS-X	EMERGENCY AIR HANDLER SHUT DOWN BUTTON #X

MECHANICAL/ELECTRICAL SYSTEM COORDINATION SCHEDULE

SYSTEM	FURNISHED BY	INSTALLED BY	POWER WIRING BY	CONTROL OR SUPERVISION WIRING BY
LIFE SAFETY SYSTEM	XXXXX	XXXXX	XX	XXXXX
SMOKE DAMPER/ACTUATOR	DIV 23	DIV 23	DIV 26	DIV 28
FIRE/SMOKE DAMPER/ACTUATOR	DIV 23	DIV 23	DIV 26	DIV 28
DUCT SMOKE DETECTOR	DIV 28	DIV 23	XX	DIV 28
NURSE CALL/FIRE ALARM INTERFACE	DIV 28	DIV 28	XX	DIV 28
FIRE SPRINKLER SYSTEM	DIV 21	DIV 21	DIV 26	DIV 28
WATERFLOW SWITCHES	DIV 21	DIV 21	XX	DIV 28
TAMPER SWITCHES	DIV 21	DIV 21	XX	DIV 28
SUPERVISORY CONTACTS	DIV 21	DIV 21	XX	DIV 28
MEDICAL GAS ALARM	DIV 22	DIV 22	DIV 26	DIV 22
MOTOR STARTERS (INTEGRAL TO EQUIP.)	DIV 22/23	XXXXX	DIV 26	DIV 23
MOTOR STARTERS (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	DIV 23
COMBINATION MOTOR STARTER/DISCONNECT (INTEGRAL TO EQUIP.)	DIV 22/23	XXXXX	DIV 26	DIV 23
COMBINATION MOTOR STARTER/DISCONNECT (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	DIV 23
VARIABLE FREQUENCY DRIVES (VFD'S)	DIV 26	DIV 26	DIV 26	DIV 23
DISCONNECT SWITCHES (NON-INTEGRAL TO EQUIP.)	DIV 26	DIV 26	DIV 26	XXXXX

NOTE 1: CONTROL OR SUPERVISORY WIRING FOR DISCONNECT SWITCHES WITH AUXILLARY CONTACTS FOR USE WITH VFD'S BY DIV. 23.
NOTE 2: DIVISION OF SCOPE BETWEEN TRADES IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS TABLE IS PROVIDED AS A GUIDE TO THE DOCUMENT PREPARATION AND IN NO WAY INDICATES CONTRACTOR MEANS AND METHODS.

MECHANICAL SYMBOLS

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATICALLY AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
A / #	NEW EQUIPMENT DESIGNATION (TOP - EQUIP. ABBREV., BOTTOM - MARK)
A / #	NEW DIFFUSER DESIGNATION (TOP - SCHEDULE DESIGN., BOTTOM - CFM)
	NEW EQUIPMENT
	EXISTING EQUIPMENT
	NEW DUCT
	EXISTING DUCT
	EXISTING DUCT TO BE REMOVED OR RELOCATED
	NEW SUPPLY DIFFUSER
	EXISTING SUPPLY DIFFUSER
	EXISTING SUPPLY DIFFUSER TO BE REMOVED OR RELOCATED
	NEW R/A GRILLE
	EXISTING R/A GRILLE
	EXISTING R/A TO BE REMOVED OR RELOCATED
	NEW EXHAUST GRILLE
	EXISTING EXHAUST GRILLE
	EXISTING EXHAUST GRILLE TO BE REMOVED OR RELOCATED
	NEW SLOT DIFFUSER
	FLEXIBLE DUCT
	EXISTING SLOT DIFFUSER
	EXISTING SLOT DIFFUSER TO BE REMOVED OR RELOCATED
T	THERMOSTAT W/ BACKBOX AND CONDUIT TO ABOVE CEILING
T	EXISTING THERMOSTAT TO BE REMOVED OR RELOCATED
H ID	HUMIDITY INDICATING DEVICE
	45 DEGREE PRESSURE TAP W/ VOLUME DAMPER
	CONICAL TAP W/ VOLUME DAMPER
	CONICAL TAP W/O VOLUME DAMPER
	MANUAL DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	FIRE/SMOKE DAMPER
M	MOTORIZED DAMPER
BD	BAROMETRIC DAMPER
CHS	CHILLED WATER SUPPLY PIPE
CHR	CHILLED WATER RETURN PIPE
CS	CONDENSER WATER SUPPLY PIPE
CR	CONDENSER WATER RETURN PIPE
RL	REFRIGERANT LIQUID PIPE
RG	REFRIGERANT GAS PIPE
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
HPS	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE CONDENSATE RETURN
PCR	PUMPED CONDENSATE RETURN
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	EXPANSION LOOP
	GATE VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	BALANCING VALVE
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	PLUG VALVE/BALANCING COCK
	SOLENOID VALVE
	CHECK VALVE
	VALVE VERTICAL
	UNION
V	VACUUM BREAKER
	PETE'S PLUG
	GAUGE COCK
	THERMOMETER
	THERMOMETER WELL
	STRAINER W/ BLOW-OFF VALVE
	F&T STEAM TRAP
	STEAM BUCKET TRAP
	CONNECT TO EXISTING
EP	ELECTRIC PNEUMATIC SWITCH
	POINT OF DEMOLITION

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JONATHAN DECKERT NUMBER PE-2021039309 — STATE OF MISSOURI — PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	N.T.S.
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US00040241.3707

GENERAL INFORMATION - MECHANICAL

M00-00

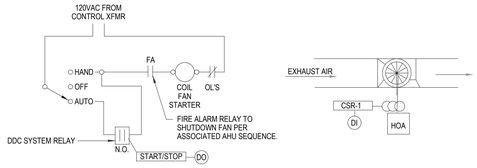
Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC ED Expansion_R23.rvt
4/22/2025 2:27:05 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:14

BMS INPUT/OUTPUT POINTS LIST

POINT DESCRIPTION	DESIGNATION	QUANTITY	GRAPHIC DISPLAY	HARDWARE: OUTPUT: DIGITAL: DAMPER OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	DAMPER CONTROL	VALVE CONTROL	HARDWARE: OUTPUT: ANALOG: CONTROL (MODULATING)	HARDWARE: INPUT: DIGITAL: CURRENT RELAY (CSR)	END SWITCH (ESO, ESC)	DIFFERENTIAL PRESS (DPS)	RESET CONTACTS	PRESSURE (PS)	FLOW SWITCH (FS)	HAND SWITCH	AUX CONTACTS	STATUS	ALARM	TEMPERATURE (DB)	RELATIVE HUMIDITY (HT)	HARDWARE: INPUT: ANALOG: DIFFERENTIAL PRESS (DPT)	PRESSURE (PT)	FLOW (PULSE/AIR)	KW	DEW POINT	HERTZ REFERENCE	SPEED/POS. FEEDBACK	PULSE	SOFTWARE: ALARMS: STATUS FAILURE	HIGH LIMIT	LOW LIMIT	MAINTENANCE	KW	BTUH	CFM	GPM	RUN TIME HRS	SOFTWARE: CALCULATED VALUE: SCHEDULED START/STOP	AUTO RESTART	DEMAND LIMITING	DEADBAND	ALARM TOTALIZATION	FAIL MODE (CLOSED)	FAIL MODE (OPEN)	TREND LOGGING
START/STOP	S/S	1	X		X																																									X
STATUS	CSR-1	1	X									X																					X														X



2 TYPICAL EXHAUST FAN WITH HOA CONTROL DIAGRAM
NOT TO SCALE

CONTROL SEQUENCE FOR A TYPICAL EXHAUST FAN
NOTE: DOES NOT APPLY TO ISOLATION ROOM AND REFRIGERANT EXHAUST FANS.
THE AUTO POSITION OF THE STARTERS (HAND/OFF/AUTO) SWITCH SHALL BE CONTROLLED BY THE DDC CONTROL SYSTEM. FAN SHALL SHUT DOWN FROM A SIGNAL FROM THE FIRE ALARM PANEL. THE DDC SYSTEM SHALL ALARM IF THE FAN FAILS TO START WHEN SENSED BY CSR-1.

FANS SHALL BE MATCHED TO THE ASSOCIATED AIR HANDLING UNIT WHICH SERVES THE SAME AREA AS THE EXHAUST FAN. THE DDC CONTROL SYSTEM SHALL START THE FAN WHENEVER THE AHU IS ENERGIZED AND SHALL DE-ENERGIZE THE EXHAUST FAN WHENEVER THE AHU IS DE-ENERGIZED.

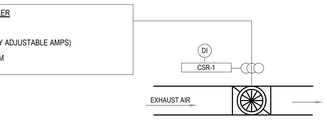
BELT BREAK ALARM (FOR BELT DRIVE FANS ONLY)

MECHANICAL CONTRACTOR, CONTROLS, AND COMMISSIONING AGENT TO DETERMINE DURING COMMISSIONING, BASED ON TEST RESULTS, THE CURRENT AT BELT SLIP CONDITION TO ENABLE THE ALARM.

DUAL FUNCTION CSR-1 SHALL MONITOR MOTOR START/STOP AND MOTOR AMPS. DDC SYSTEM SHALL HAVE TWO FAN FAILURE ALARMS. DDC SYSTEM SHALL ALARM SHALL IF THE FAN FAILS TO START. A SECOND ALARM SHALL ALERT IF THE MOTOR AMP DRAW INDICATES A BROKEN BELT.

BMS INPUT/OUTPUT POINTS LIST

POINT DESCRIPTION	DESIGNATION	QUANTITY	GRAPHIC DISPLAY	HARDWARE: OUTPUT: DIGITAL: DAMPER OPEN/CLOSE	START/STOP	FORCE ON	FORCE OFF	ENABLE/DISABLE	DAMPER CONTROL	VALVE CONTROL	HARDWARE: OUTPUT: ANALOG: CONTROL (MODULATING)	HARDWARE: INPUT: DIGITAL: CURRENT RELAY (CSR)	END SWITCH (ESO, ESC)	DIFFERENTIAL PRESS (DPS)	RESET CONTACTS	PRESSURE (PS)	FLOW SWITCH (FS)	HAND SWITCH	AUX CONTACTS	STATUS	ALARM	TEMPERATURE (DB)	RELATIVE HUMIDITY (HT)	HARDWARE: INPUT: ANALOG: DIFFERENTIAL PRESS (DPT)	PRESSURE (PT)	FLOW (PULSE/AIR)	KW	DEW POINT	HERTZ REFERENCE	SPEED/POS. FEEDBACK	PULSE	SOFTWARE: ALARMS: STATUS FAILURE	HIGH LIMIT	LOW LIMIT	MAINTENANCE	KW	BTUH	CFM	GPM	RUN TIME HRS	SOFTWARE: CALCULATED VALUE: SCHEDULED START/STOP	AUTO RESTART	DEMAND LIMITING	DEADBAND	ALARM TOTALIZATION	FAIL MODE (CLOSED)	FAIL MODE (OPEN)	TREND LOGGING
FAN STATUS	CSR-1	1	X									X																																			X
EXHAUST FAN GENERAL ALARM	EF-ALM																																														
START/STOP	S/S	1	X			X																																									



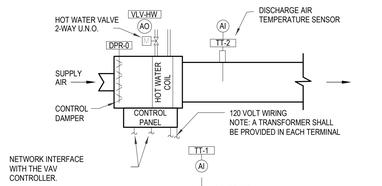
TYPICAL SINGLE ISOLATION EXHAUST FAN
THE DDC SYSTEM SHALL ALARM IF THE FAN FAILS TO START.

EXHAUST FANS SHALL OPERATE CONTINUOUSLY, 24 HOURS PER DAY, 7 DAYS PER WEEK.

CURRENT SENSING RELAY SHALL BE ADJUSTABLE.

ALARM
CSR-1 SHALL MONITOR START/STOP AND MOTOR AMPS.
THE DDC SYSTEM SHALL ALARM IF THE FAN FAILS TO START OR STOPS WHEN IT IS COMMANDED ON.

3 ISOLATION EXHAUST FAN CONTROL DIAGRAM
NOT TO SCALE



TYPICAL VARIABLE VOLUME BOX WITH HOT WATER REHEAT COIL (DUAL PID LOOP)

COOLING AND HEATING
WHEN THE SPACE TEMPERATURE, AS SENSED BY SPACE TEMPERATURE TRANSMITTERS (TT-1), IS BETWEEN THE HEATING AND COOLING SETPOINTS (FROM THE BAS) THE PRIMARY CFM SETPOINT WILL BE AT MINIMUM CFM AND THERE WILL BE NO MECHANICAL HEATING. ON A RISE IN ZONE TEMPERATURE ABOVE THE COOLING SETPOINT, THE PRIMARY CFM SETPOINT WILL INCREASE THE CFM AND THERE WILL BE NO MECHANICAL HEATING. ON A DROP IN ZONE TEMPERATURE BELOW THE HEATING SETPOINT, THE REHEAT COIL WILL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. THE DISCHARGE AIR TEMPERATURE SETPOINT WILL RESET AS THE ZONE TEMPERATURE CHANGES. AFTER THE DISCHARGE AIR TEMPERATURE SETPOINT REACHES THE HIGH LIMIT SETPOINT (95F, ADJ), THE BOX AIR FLOW IS INCREASED TO THE HEATING MAX FLOW SETPOINT.

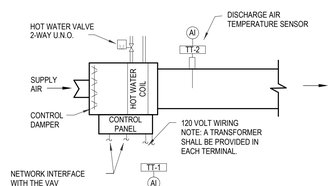
THE CONTROL DAMPER SHALL MODULATE TO MAINTAIN THE CFM SETPOINT. THE CFM SETPOINT SHALL BE RESET FROM MINIMUM AIR FLOW TO A MAXIMUM AIR FLOW.

GAIN OF VAV DAMPER CONTROL SHALL NOT EXCEED 20%.

THE DEADBAND SHALL NOT EXCEED +/-0.5°F.
THE FOLLOWING POINTS SHALL BE MAPPED AND TRENDED FROM THE OPERATORS WORKSTATION. A VAV BOX SUMMARY SHALL BE PROGRAMMED TO ALLOW THE OPERATOR TO VIEW THE FOLLOWING POINTS IN TABULAR FORM:
- SPACE TEMPERATURE SETPOINT
- CURRENT SPACE TEMPERATURE
- CFM SETTING
- CURRENT CFM
- DAMPER POSITION
- VALVE POSITION
- VAV DISCHARGE AIR TEMP

ALL POINTS SHALL BE TRENDED.

1 TYPICAL VARIABLE VOLUME BOX WITH HEATING WATER COIL
NOT TO SCALE



TYPICAL CONSTANT VOLUME BOX WITH HOT WATER REHEAT COIL

COOLING AND HEATING
ON A RISE IN SPACE TEMPERATURE TRANSMITTERS (TT-1) SETPOINT (75 DEG. ADJ.), TT-1 SHALL, THROUGH THE DDC, MODULATE THE HOT WATER VALVE CLOSED. ON A FALL IN SPACE TEMPERATURE (70 DEG. ADJ.), TT-1 SHALL, THROUGH THE DDC, MODULATE OPEN THE HOT WATER VALVE.

THE DAMPER SHALL MODULATE TO MAINTAIN THE CFM SETTING AS INDICATED ON THE DRAWINGS AT ALL TIMES. UNDER NO CIRCUMSTANCES (EXCEPT SMOKE CONTROL IF APPLICABLE) SHALL THE CFM SETTING BE BELOW THAT OF THE MINIMUM CFM AS INDICATED ON THE DRAWINGS.

TEMPERATURE SETPOINT SHALL BE ADJUSTABLE THROUGH THE DDC CONTROL SYSTEM AND SHALL HAVE USER ADJUSTABLE OFFSETS. THE DEADBAND SHALL BE ADJUSTABLE THROUGH THE DDC CONTROL SYSTEM.

GAIN OF VAV DAMPER CONTROL SHALL NOT EXCEED 20%.

THE DEADBAND SHALL NOT EXCEED +/-0.5°F.

THE FOLLOWING POINTS SHALL BE MAPPED TO BE TRENDED FROM THE OPERATORS WORKSTATION. A VAV BOX SUMMARY SHALL BE PROGRAMMED TO ALLOW THE OPERATOR TO VIEW THE FOLLOWING POINTS IN TABULAR FORM:
- SPACE TEMPERATURE SETPOINT
- CURRENT SPACE TEMPERATURE
- CFM SETTING
- CURRENT CFM
- DAMPER POSITION
- VALVE POSITION
- VAV DISCHARGE AIR TEMPERATURE

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04/18/2025
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IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/16/25
SCALE:	NOT TO SCALE
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

CONTROLS - MECHANICAL

M01-01

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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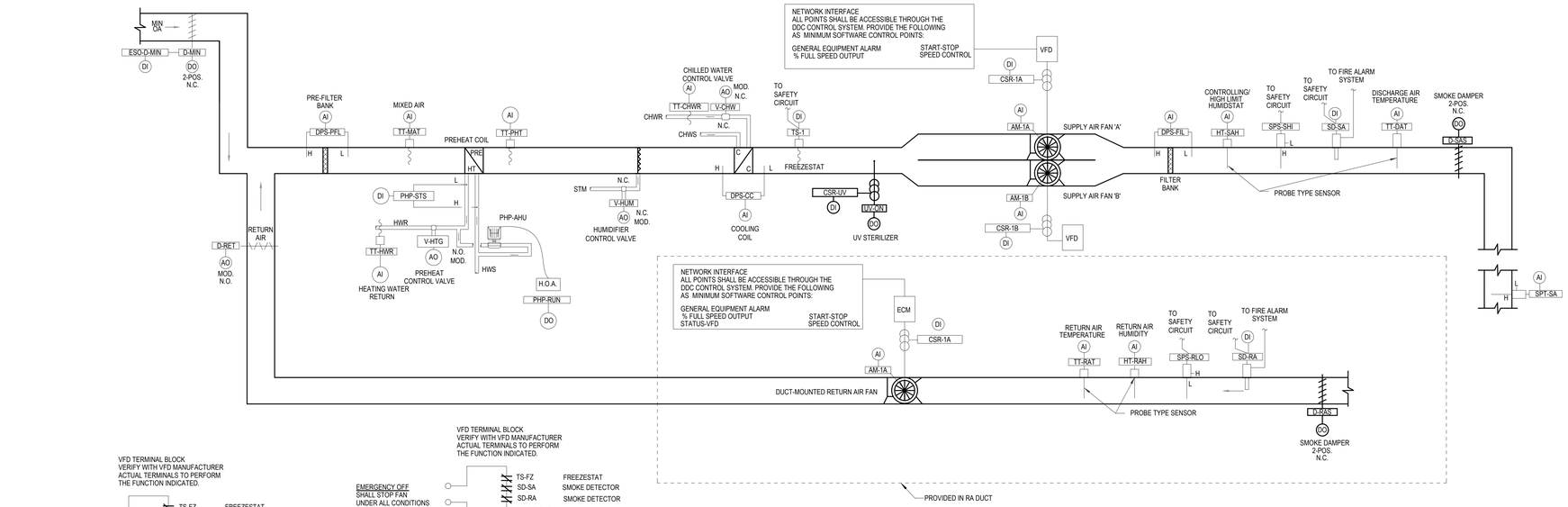
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:14



SUPPLY AIR AND RETURN AIR FAN
SUPPLY AIR AND RETURN AIR FANS SHALL BE ENERGIZED/DE-ENERGIZED FROM THE VFD IN HAND POSITION OR THE DDC SYSTEM WHEN IN AUTO MODE. THE DDC CONTROL SYSTEM SHALL SENSE WHEN THE FAN IS IN HAND POSITION BY THE FAN STATUS VERIFICATION AND INITIATE THE AHU CONTROL SEQUENCE.

IN AUTO MODE THE TWO-POSITION MINIMUM OUTSIDE AIR DAMPER (D-MIN) SHALL OPEN. ONCE THE DAMPER IS OPEN, THE SUPPLY FAN SHALL START; THE DDC SYSTEM SHALL SIGNAL THE ASSOCIATED RETURN AND EXHAUST FANS TO START. IF FAN STARTED IN HAND THE TWO POSITION MINIMUM OUTSIDE AIR DAMPER SHALL OPEN IMMEDIATELY UPON SENSING FAN STATUS AS ON.

FANS SHALL SHUT DOWN FROM A SIGNAL FROM:
- THE FIRE ALARM PANEL THRU THE F/A RELAY.
- THE SUPPLY AIR SMOKE DETECTOR(S) (SD-SA)
- THE RETURN AIR SMOKE DETECTOR(S) (SD-RA)
- FREEZE STAT, (TS-FRZ).
- THE HIGH/LOW LIMIT STATIC PRESSURE SWITCHES (SPS-SHI & RLO).
- THE PREHEAT LOW LIMIT (TT-PHT).

WHEN THE SUPPLY FAN SHUTS DOWN THE FOLLOWING SHALL OCCUR:
- THE MINIMUM OUTSIDE AIR DAMPER (D-MIN) SHALL CLOSE.
- THE RETURN DAMPER (D-RET) SHALL OPEN
- THE CHILLED WATER VALVE (V-CHW) SHALL CLOSE
- THE RETURN FAN AND THE ASSOCIATED EXHAUST FANS SHALL SHUTDOWN.

SUPPLY FAN SPEED CONTROL
THE SUPPLY FANS VARIABLE FREQUENCY DRIVE (VFD) SHALL BE CONTROLLED BY A DUCT MOUNTED DIFFERENTIAL STATIC PRESSURE TRANSMITTER (SPT-SA) MODULATING THE VFD TO MAINTAIN A SUPPLY DUCT STATIC PRESSURE SETPOINT (AT THE LOWEST TO BE VERIFIED BY THE TAB CONTRACTOR). FOR MULTIPLE STATIC PRESSURE TRANSMITTERS, THE DDC SYSTEM SHALL PROVIDE A SEPARATE SET POINT FOR EACH STATIC PRESSURE TRANSMITTER, AND SELECT THE STATIC PRESSURE TRANSMITTER THAT IS FARTHEST BELOW ITS SET POINT TO CONTROL THE SPEED OF THE VFD. THE VFD SHALL OUTPUT THE % FULL SPEED TO THE DDC SYSTEM BY THE NETWORK INTERFACE.

ON A FALL IN DIFFERENTIAL PRESSURE SENSED BY SPT-SA, SPT-SA SHALL THROUGH THE DDC SYSTEM, SPEED UP THE SUPPLY FANS VFD TO MAINTAIN SPT-SA SETPOINT. ON A RISE IN DIFFERENTIAL PRESSURE SENSED BY SPT-SA, SPT-SA SHALL THROUGH THE DDC SYSTEM, SLOW DOWN THE SUPPLY FANS VFD TO MAINTAIN SPT-SA SETPOINT. SPT-SA SHALL ALARM THE DDC SYSTEM IF ITS MEASURED PRESSURE IS EITHER TOO HIGH OR TOO LOW.

SPS-SHI SHALL SHUTDOWN THE FANS WHENEVER IT SENSES A HIGH STATIC PRESSURE, ALARM THE DDC SYSTEM AND REQUIRE A LOCAL MANUAL RESET TO RESTART THE FAN. SPS-RLO SHALL SHUTDOWN THE FANS WHENEVER IT SENSES A LOW STATIC PRESSURE AND ALARM THE DDC SYSTEM AND REQUIRE A LOCAL MANUAL RESET TO RESTART THE FAN

VOLUMETRIC TRACKING
THE RETURN AIR FAN VFD SHALL BE CONTROLLED FROM AN OUTSIDE AIR QUANTITY SOFTWARE SETPOINT (SCHEDULED MINIMUM OUTSIDE AIR QUANTITY, ADJUSTABLE) USING AIRFLOW MEASURING DEVICES AND TRANSMITTERS AM-SA AND AM-RA INSTALLED AT THE INLET OF THE SUPPLY AND RETURN FANS. AM-SA SHALL MEASURE THE TOTAL AIRFLOW OF THE SUPPLY FAN AND AM-RA SHALL MEASURE THE TOTAL AIRFLOW OF THE RETURN FAN. THE AIRFLOW MEASURING TRANSMITTERS SHALL OUTPUT THE TOTAL CFM READING TO THE DDC SYSTEM. THE DDC SYSTEM SHALL CALCULATE THE DIFFERENCE OF THE TOTAL SUPPLY AIR AND THE TOTAL RETURN AIR TO MAKE AN OUTSIDE AIR QUANTITY SOFTWARE POINT. THE DDC SYSTEM SHALL MODULATE THE SPEED OF THE RETURN AIR FAN VFD TO MAINTAIN THE CALCULATED OUTSIDE AIR QUANTITY WITHIN 2% OF THE OUTSIDE AIR QUANTITY SETPOINT.

AIR HANDLER OPERATING STATES
THE AIR HANDLING UNIT SHALL OPERATE IN TWO DISTINCT STATES. CRITERIA TO TRANSITION BETWEEN STATES ARE INDICATED BELOW. TO TRANSITION BETWEEN STATES THE CRITERIA SHALL BE MEET FOR AN ADJUSTABLE MINIMUM PERIOD OF TIME REFERRED TO AS "TRANSITION TIME".

STATE 1 - FULL COOLING COIL
THE COOLING COIL CONTROL VALVE, V-CHW, SHALL BE CONTROLLED BY A CONTROL LOOP WITH THE DISCHARGE TEMPERATURE TRANSMITTER, TT-DAT, AS THE INPUT, AND A SETPOINT EQUAL TO THE DISCHARGE AIR SETPOINT OF (52 F, ADJUSTABLE). ON A RISE IN TEMPERATURE ABOVE TT-DAT SETPOINT, THE VALVE SHALL MODULATE OPEN. ON A FALL IN TEMPERATURE BELOW TT-DAT SETPOINT, THE VALVE SHALL MODULATE CLOSED. TT-DAT SHALL ALARM THE DDC SYSTEM WHENEVER THE DISCHARGE TEMPERATURE IS TOO HIGH OR LOW. THE COOLING COIL CONTROL LOOP SHALL CONTROL THE LEAVING AIR TEMPERATURE WITHIN +/- 0.5 DEGREE F.

STATE 2 - PREHEAT:
WHEN THE UNIT IS IN STATE 2:
-THE RETURN DAMPER SHALL BE FULLY OPEN.
WHEN THE UNIT IS IN STATE 2 THE PREHEAT HOT WATER VALVE, V-HTG, SHALL BE CONTROLLED BY A SELECTING THE MINIMUM OUTPUT OF THE PREHEAT MINIMUM TEMPERATURE CONTROL LOOP (AS DESCRIBED BELOW) AND THE DISCHARGE AIR TEMPERATURE CONTROL LOOP. THE DISCHARGE AIR TEMPERATURE CONTROL LOOP SHALL HAVE THE UNIT DISCHARGE AIR TEMPERATURE TRANSMITTER (TT-DAT) AS INPUT AND A SETPOINT OF THE DISCHARGE AIR SETPOINT (52 ° F).

TRANSITION FROM STATE 1 TO STATE 2:
TRANSITION FROM STATE 1 TO STATE 2 OCCURS WHEN THE CHILLED WATER CONTROL VALVE (V-CHW) HAS BEEN MODULATED CLOSED FOR 3 MINUTES (ADJ.)

TRANSITION FROM STATE 2 TO STATE 1:
TRANSITION FROM STATE 2 TO STATE 1 OCCURS WHEN THE PREHEAT CONTROL VALVE (V-HTG) HAS BEEN MODULATED CLOSED FOR 3 MINUTES (ADJ.)

PRE-HEAT COIL LOW LIMIT CONTROL
THE PRE-HEAT COIL LOW LIMIT CONTROL LOOP SHALL BE OPERATIVE AT ALL TIMES WHEN THE UNIT IS IN ANY STATE, INCLUDING WHEN THE UNIT IS DE-ENERGIZED. TO MAINTAIN A MINIMUM PREHEAT COIL DISCHARGE TEMPERATURE. THE PREHEAT LOW LIMIT CONTROL LOOP SHALL HAVE THE PREHEAT COIL LEAVING AIR TEMPERATURE TRANSMITTER (TT-PHT) AS INPUT AND THE SET POINT SHALL BE 42° F (ADJ). THE BAS SHALL ISSUE A "PREHEAT LOW LIMIT ALARM" IF THE PHT FALLS BELOW SET POINT -1° F. THE ALARM SHALL RESET WHEN THE PHT RISES +1° F ABOVE SET POINT.

IF THE PREHEAT COIL LEAVING AIR TEMPERATURE FALLS TO 38° F. THE BAS SHALL SHUT DOWN THE SUPPLY AND RETURN FANS, CLOSE THE OUTSIDE AIR DAMPERS, AND FULLY OPEN THE RETURN DAMPER. A "PREHEAT TEMPERATURE SHUTDOWN ALARM' SHALL BE GENERATED AT THE BAS FRONT-END. A SOFTWARE RESET SHALL BE REQUIRED TO RESTART THE UNIT.

PRE-HEAT CIRCULATING PUMP
WHEN THE PREHEAT LEAVING AIR TEMPERATURE IS ABOVE 47°F (ADJ.), THE HW RECIRCULATION PUMP SHALL BE OFF. ONCE THE PREHEAT LEAVING AIR TEMPERATURE DROPS BELOW 47°F (ADJ.), THE HW RECIRCULATION PUMP WILL ENERGIZE AND REMAIN ON UNTIL THE PREHEAT LEAVING AIR TEMPERATURE RISES TO ABOVE 50°F (ADJ.). A DIFFERENTIAL PRESSURE SENSOR ACROSS THE PREHEAT COIL PHP-STS SHALL BE EMPLOYED TO SENSE THE PRESENCE OF FLOW THROUGH THE PREHEAT COIL. THE HW RECIRCULATION PUMP SHALL BE BALANCED TO WHERE THE DIFFERENTIAL PRESSURE SETPOINT FOR THE PUMP ACHIEVES A VELOCITY 3 FT./SECOND FLOW THROUGH THE PREHEAT COIL. IF THE LOSS OF FLOW IS SENSED WHEN THE HW RECIRCULATION PUMP IS COMMANDED ON, THE PREHEAT VALVE SHALL OPEN AND THE BAS SHALL GENERATE A "PREHEAT COIL CIRCULATING PUMP ALARM' AT THE FRONT-END.

HUMIDIFIER
THE HUMIDIFIER CONTROLS SHALL BE ACTIVE ANY TIME THE SUPPLY FAN IS RUNNING.

THE TRAUMA ROOM SPACE HUMIDITY SHALL CONTROL THE HUMIDIFIER TO MAINTAIN THE REQUIRED HUMIDITY LEVEL IN THE TRAUMA ROOM. WHEN THE HUMIDITY LEVEL IN THE TRAUMA ROOM DROPS BELOW 25% RH, THE HUMIDIFIER VALVE SHALL MODULATE OPEN UNTIL THE TRAUMA ROOM HUMIDITY LEVEL EXCEEDS 35% RH. WHEN THE TRAUMA ROOM HUMIDITY EXCEEDS 35% RH THE HUMIDIFIER SHALL BE DISABLED UNTIL THE RH IN THE TRAUMA ROOM FALLS BELOW 25% RH.

WHENEVER THE HUMIDIFIER DISCHARGE AIR IS ABOVE THE CONTROLLING LIMIT SETPOINT (80% ADJ.) AS SENSED BY THE HIGH LIMIT HUMIDISTAT, HT-SAH, THE HUMIDIFIER VALVE SHALL BE MODULATED CLOSED TO MAINTAIN THE CONTROLLING LIMIT SETPOINT.

WHENEVER THE HUMIDIFIER DISCHARGE AIR IS ABOVE THE HIGH LIMIT SETPOINT, 95% ADJUSTABLE, AS SENSED BY THE HT-SAH, THE DDC SYSTEM SHALL DISABLE THE HUMIDIFIER, CLOSE THE STEAM VALVE, AND AN ALARM SHALL BE SENT TO THE OPERATOR WHICH MUST BE ACKNOWLEDGED AND RESET IN ORDER TO RE-ENABLE THE HUMIDIFIER.

FREEZESTAT
WHENEVER FREEZESTAT, TS-FZ, SENSES A TEMPERATURE BELOW 36 DEGREES F (ADJ.), IT SHALL PERFORM THE FOLLOWING:
- THE RETURN FAN AND THE ASSOCIATED EXHAUST FANS SHALL SHUTDOWN.
- THE MINIMUM OUTSIDE AIR DAMPER (D-MIN) SHALL CLOSE.
- THE RETURN DAMPER (D-RET) SHALL OPEN
- FULLY OPEN THE CHILLED WATER VALVE (V-CHW) AND PREHEAT VALVE (V-HTG)
- ISSUE A UNIQUE ALARM.
- OPEN THE LEAD CHILLER CHILLED WATER ISOLATION VALVE AND COMMAND ON THE VARIABLE PRIMARY OR SECONDARY CHILLED WATER PUMP AND CONTROL ITS SPEED TO MAINTAIN THE DIFFERENTIAL PRESSURE SET POINT, IF APPLICABLE.

A MANUAL RESET AT THE AHU SHALL BE REQUIRED TO RESTART AN AHU THAT HAS AUTOMATICALLY SHUT DOWN FROM A FREEZE STAT TRIP.

FILTERS
ALL FILTERS SHALL HAVE A DIFFERENTIAL PRESSURE SWITCH (DPS-FIL & DPS-PFL) MEASURING THE PRESSURE DROP ACROSS THE FILTER BANKS. EACH SHALL ALARM THE DDC SYSTEM WHENEVER THE PRESSURE DROP ACROSS THE FILTER IS EXCESSIVE (DIRTY FILTER) (ADJ.).

FIRE ALARM SHUTDOWN
WHENEVER THE FIRE ALARM SYSTEM SENSES SMOKE/FIRE, THE FIRE ALARM SYSTEM SHALL SIGNAL THE DDC SYSTEM. THE DDC SYSTEM IS TO DE-ENERGIZE THE UNIT AND SHALL PERFORM THE FOLLOWING.
- SHUTDOWN THE SUPPLY AIR FAN
- SHUTDOWN THE RETURN AIR FAN
- SHUTDOWN THE ASSOCIATED EXHAUST FANS.
- CLOSE CHILLED WATER VALVE V-CHW.
- CLOSE THE OUTSIDE AIR DAMPER (D-MIN).
- OPEN THE RETURN AIR DAMPER (D-RET).
- THE PREHEAT COIL (V-HTG) SHALL REMAIN UNDER THE CONTROL OF THE PREHEAT DISCHARGE TEMPERATURE SENSOR.

ANTIMICROBIAL ULTRAVIOLET LIGHTS
UV LIGHTS SHALL BE ON WHENEVER UNIT IS OPERATIONAL, AND OFF WHEN UNIT IS OFF. UV LIGHTS SHALL BE INTERLOCKED TO A DOOR SWITCH SUCH THAT THE LIGHTS ARE DEACTIVATED WHEN THE ACCESS DOOR(S) TO THE SECTION IS OPENED. A SECOND MANUAL SWITCH SHALL BE PROVIDED JUST OUTSIDE THE UNIT, BY EACH DOOR, FOR SAFETY.
THE COOLING COIL SHALL HAVE A DIFFERENTIAL PRESSURE SENSOR (DPS-CC) MEASURING THE PRESSURE DROP ACROSS THE COOLING COIL. AN ALARM SHALL BE ISSUED WHENEVER THE PRESSURE DROP ACROSS THE COIL IS EXCESSIVE (25% OVER INITIAL T&B SETPOINT) (ADJ.).

SUPPLY FAN STATIC PRESSURE RESET
THE CONTROL SYSTEM SHALL MONITOR THE DAMPER POSITIONS OF THE VAV TERMINAL UNITS SERVED BY THE AIR HANDLING UNIT. THE TAB CONTRACTOR SHALL DETERMINE THE MAXIMUM AND MINIMUM LIMIT OF THE STATIC PRESSURE SET POINT. THE MAXIMUM LIMIT SHALL BE DETERMINED BY SETTING ALL VAV TERMINALS TO FULL COOLING AND DETERMINING THE STATIC PRESSURE SET POINT WHICH RESULTS IN THE VAV DAMPER THAT IS MOST OPEN AT 95%. THE MINIMUM LIMIT OF THE STATIC PRESSURE SET POINT SHALL BE DETERMINED IN A SIMILAR METHOD WITH ALL OF THE VAV TERMINALS SET AT MINIMUM COOLING CFM.
THE SUPPLY AIR STATIC PRESSURE SHALL BE RESET BASED ON THE TERMINAL BOX AIR DAMPER POSITION. THE STATIC PRESSURE CONTROL LOOP SHALL POLL ALL TERMINAL BOXES IN THE SYSTEM AND REDUCE STATIC PRESSURE 0.02 IN. W.C. (ADJ.) OVER AN 5 MINUTE (ADJ.) TIME PERIOD UNTIL ANY TERMINAL BOX AIR DAMPER HAS OPENED TO 90% (ADJ.). STATIC PRESSURE WILL INCREASE 0.05 IN. W.C. (ADJ.) WHEN ANY TERMINAL BOX IN THE SYSTEM IS ABOVE 90% OPEN. THE CALCULATION MUST BE BETWEEN THE STATIC PRESSURE MINIMUM AND STATIC PRESSURE MAXIMUM SOFTWARE POINTS BEFORE WRITING OUT TO THE SUPPLY AIR STATIC PRESSURE SETPOINT. ANY TERMINAL BOX IN THE SYSTEM MAY BE ADDED TO AN EXCEPTION LIST AND ELIMINATED FROM THE STATIC PRESSURE RESET CONTROL LOOP.

UNIT DISCHARGE TEMPERATURE SET POINT AND RESET

THE SUPPLY AIR TEMPERATURE SHALL BE RESET BASED ON THE COOLING OUTPUT OF THE TERMINAL BOX DETERMINED BY PERCENT OF FLOW BETWEEN MINIMUM AND MAXIMUM COOL-ING FOR VARIABLE VOLUME BOXES. THE SUPPLY TEMPERATURE CONTROL LOOP SHALL POLL ALL TERMINAL BOXES IN THE SYSTEM AND INCREASE THE SUPPLY TEMPERATURE 0.2°F (ADJ.) OVER A 5 MINUTE (ADJ.) TIME PERIOD UNTIL ANY TERMINAL BOX COOLING OUTPUT HAS EXCEEDED 95%. SUPPLY TEMPERATURE WILL DECREASE BY 0.5°F (ADJ.) WHEN ANY TERMINAL BOX IN THE SYSTEM IS ABOVE 95%. IF RETURN AIR RELATIVE HUMIDITY EXCEEDS 60%, SUPPLY TEMPERATURE WILL RESET DOWN. MAXIMUM SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 58°F WHEN OUTSIDE AIR TEMPERATURE IS GREATER THAN 55°F AND 62°F WHEN OUTSIDE AIR TEM-PERATURE IS LESS THAN 55°F. ANY TERMINAL BOX IN THE SYSTEM MAY BE ADDED TO AN EXCEPTION LIST AND ELIMINATED FROM THE DISCHARGE TEMPERATURE RESET CONTROL LOOP.

BMS INPUT / OUTPUT POINTS LIST

| POINT DESCRIPTION | DESIGNATION | NOTES | QUANTITY | GRAPHIC DISPLAY | HARDWARE: OUTPUT: DIGITAL: DAMPER OPEN / CLOSE | VALVE OPEN / CLOSE | START / STOP | FORCE ON | FORCE OFF | ENABLE / DISABLE | ANALOG: DAMPER CONTROL | VALVE CONTROL | CONTROL | FIXED PRESET | INPUT: DIGITAL: ENG SWITCH | HAND SWITCH | RELAY CONTACTS | CURRENT RELAY (CSR) | PRESSURE SWITCH | DIFFERENTIAL PRESS | FLOW SWITCH | AUX CONTACTS | STATUS | ALARM | FAULT RESET | ANALOG: PRESSURE | DIFFERENTIAL PRESS | FLOW METER | KW | HERTZ REFERENCE | TEMPERATURE (DB) | RELATIVE HUMIDITY | DEW POINT | MEASURE | SPEED / POSITION | PULSE | SOFTWARE: ALARMS: STATUS FAILURE | HIGH LIMIT | LOW LIMIT | SMOKE | MAINTENANCE | CALCULATED VALUE: KW | BTUH | CFM | GPM | RUN TIME HRS | INTEGRATOR | GALLONS / TON | PROGRAMS: AUTO RESTART | CHILLER OPTIMIZATION | COND WATER RESET | DEMAND LIMITING | EVENT PROGRAMS | FAIL MODE (CLOSED) | FAIL MODE (OPEN) | LIGHTING CONTROL | RUN TIME TO ALLOCATION | SCHEDULED START / STOP | LEAD / LAG | SUPPLY AIR RESET | TREND LOGGING |
|---|---|---

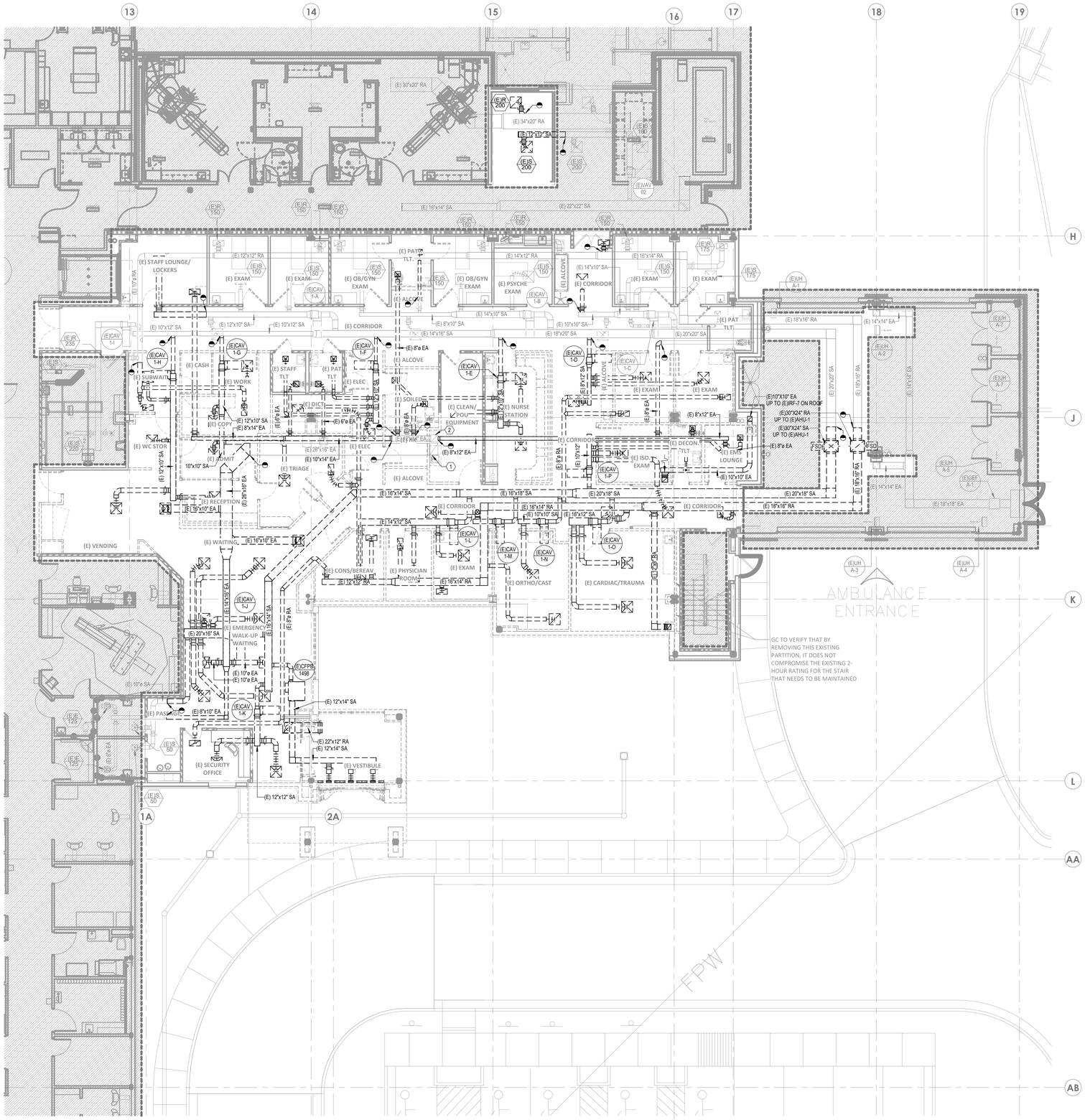
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:14

GENERAL DEMO NOTES

A. REFER TO M00-00 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.
B. ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE APPROXIMATE AND BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN AND AS-BUILT DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
C. ALL EXISTING DUCT SIZES AND AIRFLOW VALUES ON PLAN ARE PER THE DESIGN DOCUMENTS AVAILABLE.
D. CONTRACTOR TO PRE-TAB ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SERVED BY EXISTING SYSTEMS MODIFIED AS A PART OF THIS SCOPE. PRE-TAB TO INCLUDE CURRENT CONSTRUCTION SCOPE AREAS AND ALL OUT OF SCOPE AREAS SERVED BY THE MODIFIED SYSTEMS. CONTRACTOR TO DOCUMENT PRECONSTRUCTION VALUES AND PROVIDE TO ENGINEER OF RECORD. UPON COMPLETION OF CONSTRUCTION, REBALANCE ALL EXISTING AREAS TO PRE-TABBED CONSTRUCTION VALUES.
E. PROVIDE TEMPORARY AHU FOR AREAS IMPACTED BY AHU REPLACEMENT.

LEGEND NOTES

1. 26"x18" EXISTING EA DUCT UP TO EF-2 ON ROOF.
2. 16"x16" EXISTING EA DUCT UP TO EF-1 ON ROOF.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(E) STAFF LOUNGE/ LOCKERS
(E) EXAM
(E) OB/GYN EXAM
(E) PSYCHE EXAM
(E) ALCOVE
(E) CASH
(E) SUBWAIT
(E) WORK
(E) STAFF
(E) PAT
(E) ELEC
(E) DICT
(E) COPY
(E) SOILED
(E) CLEAN/ POU
(E) NURSE STATION
(E) EQUIPMENT
(E) WC STOR
(E) ADMIT
(E) TRIAGE
(E) RECEPTION
(E) VENDING
(E) WAITING
(E) CONS/BEREAV
(E) PHYSICIAN ROOMS
(E) ORTHO/CAST
(E) CARDIAC/TRAUMA
(E) ISO EXAM
(E) DECON.
(E) EMS LOUNGE
(E) EMERGENCY WALK-UP WAITING
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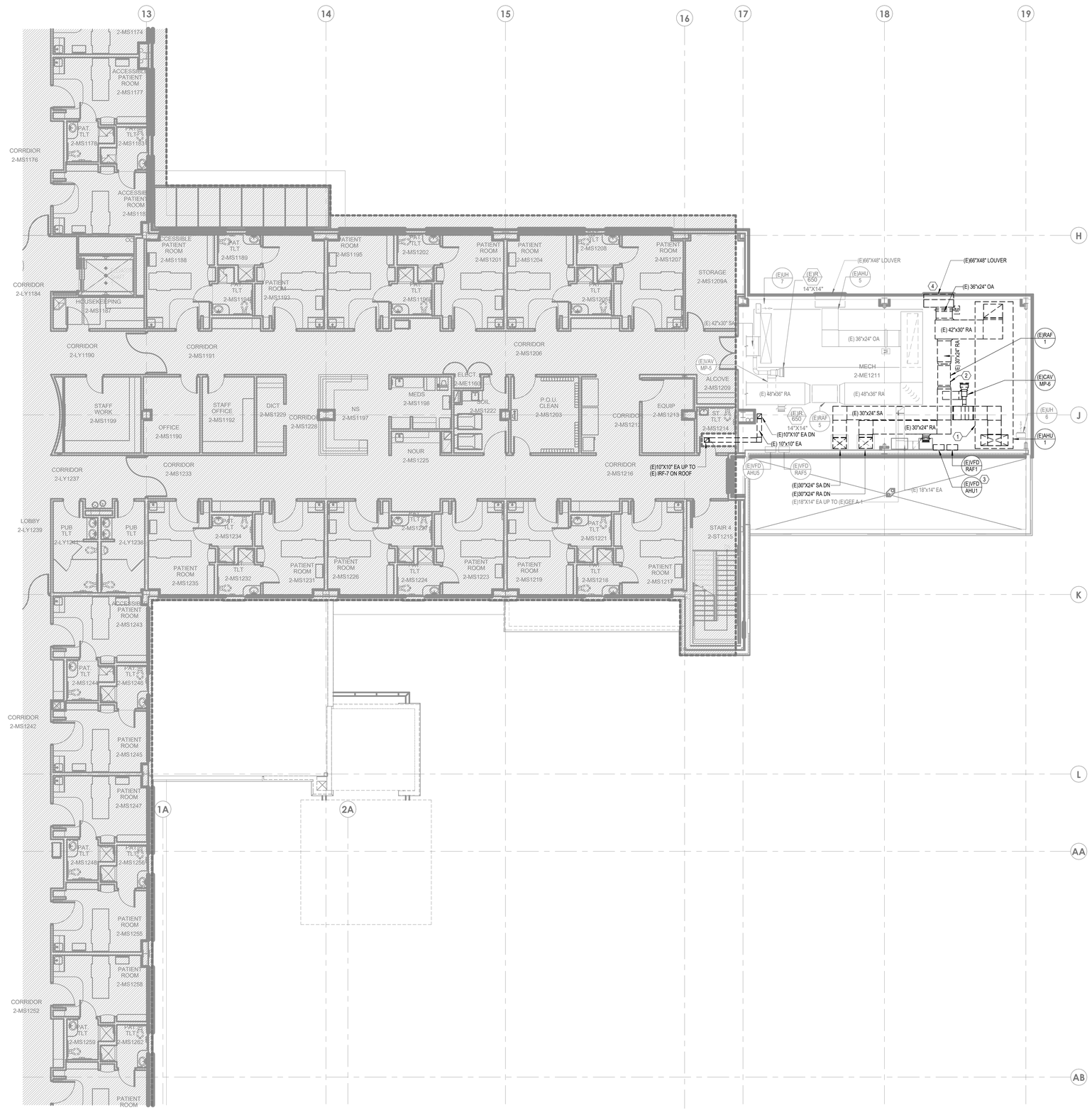
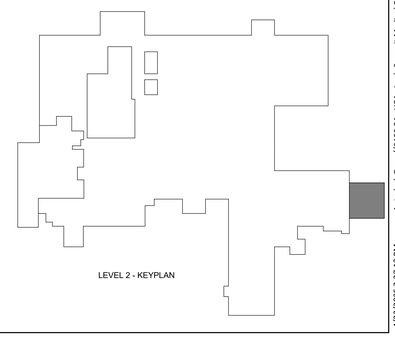
E. PROVIDE TEMPORARY AHU FOR AREAS IMPACTED BY AHU REPLACEMENT.

LEGEND NOTES

1. DEMOLISH EXISTING AHU-1 AND ASSOCIATED DUCTWORK AND ACCESSORIES.
2. DEMOLISH EXISTING RAF-1 AND ASSOCIATED DUCTWORK AND ACCESSORIES.
3. DEMOLISH EXISTING VFD FOR RAF-1 AND EXISTING VFD FOR AHU-1. RETURN VFDS TO OWNER.
4. DEMOLISH EXISTING 66"X48" LOUVER.



1 DEMOLITION PLAN - LEVEL 02 - HVAC
1/8" = 1'-0"



LEVEL 2 - KEYPLAN

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JONATHAN DECKERT NUMBER PE-2012039309 PROFESSIONAL ENGINEER
STATE OF MISSOURI
04/18/2025
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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

DEMOLITION PLAN - LEVEL 02 - HVAC

MD02-02

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

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4/22/2025 2:27:13 PM

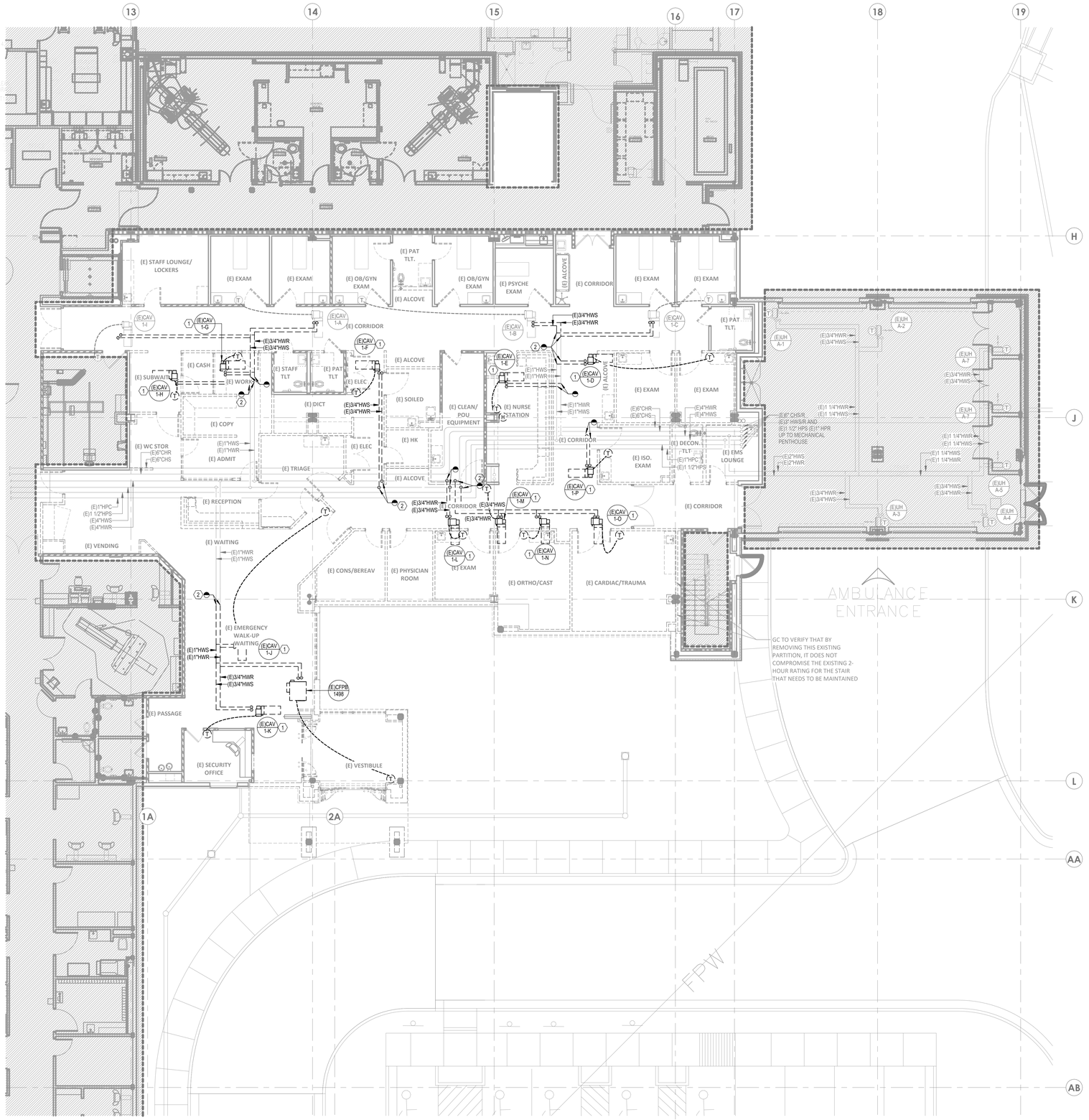
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:14

GENERAL DEMO NOTES

A. REFER TO M00-00 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.
B. ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE APPROXIMATE AND BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN AND AS-BUILT DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
C. ALL EXISTING PIPE SIZES ON PLAN ARE PER THE DESIGN DOCUMENTS PROVIDED.
D. CONTRACTOR TO PRE-TAB ALL SUPPLY AND RETURN PIPING SERVED BY EXISTING SYSTEMS MODIFIED AS A PART OF THIS SCOPE. CONTRACTOR TO DOCUMENT PRECONSTRUCTION VALUES AND PROVIDE TO ENGINEER OF RECORD. UPON COMPLETION OF CONSTRUCTION, REBALANCE ALL EXISTING AREAS TO PRE-TABBED CONSTRUCTION VALUES.

LEGEND NOTES

1. DEMOLISH EXISTING VAV BOX.
2. CONTRACTOR TO DEMOLISH HWSIR LINES AS SHOWN AND INSTALL NEW SHUTOFF VALVES.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AA
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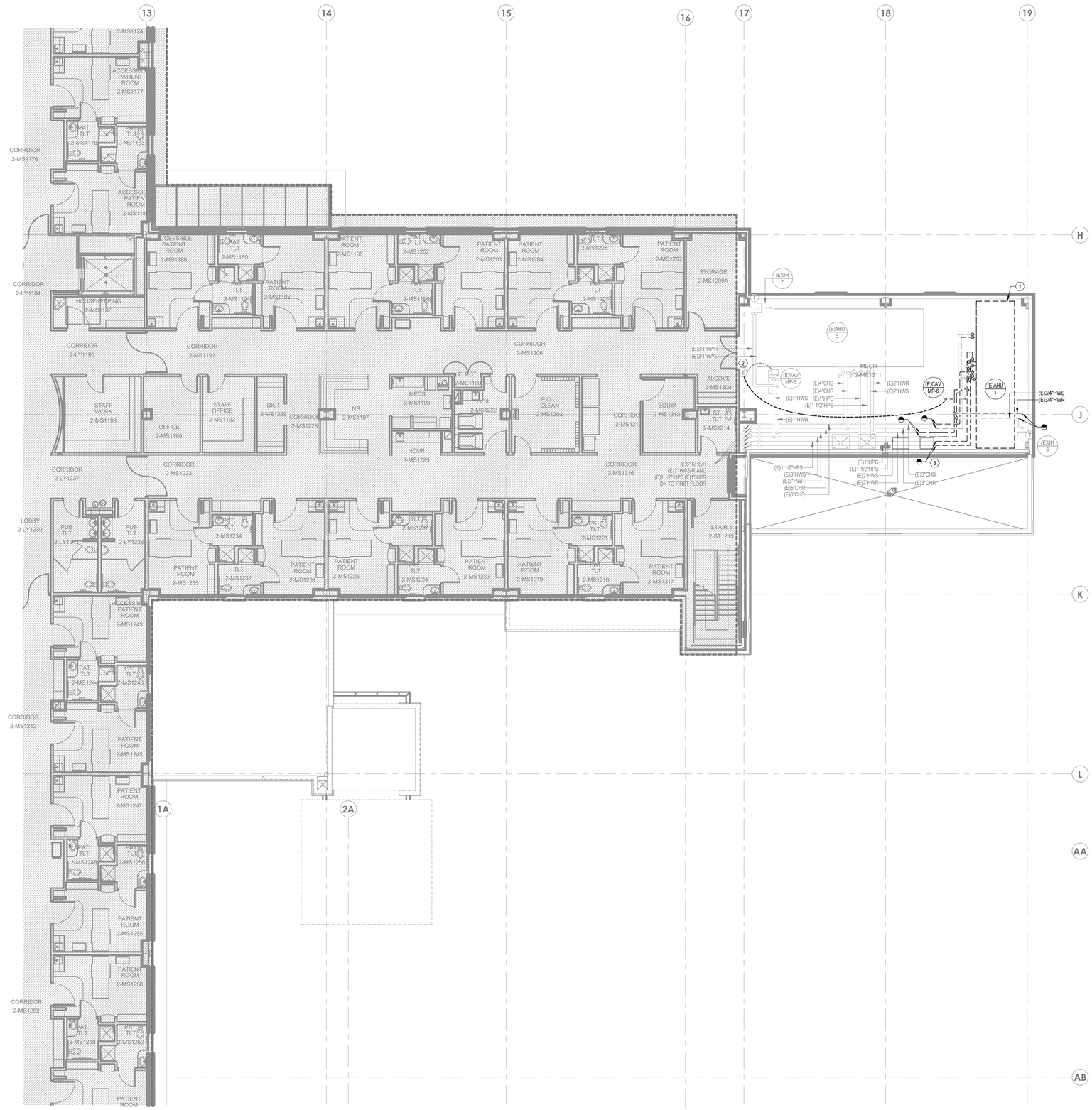
1A
2A
(E) STAFF LOUNGE/ LOCKERS
(E) EXAM
(E) EXAM
(E) OB/GYN EXAM
(E) PAT TLT.
(E) OB/GYN EXAM
(E) PSYCHE EXAM
(E) ALCOVE
(E) CORRIDOR
(E) EXAM
(E) EXAM
(E) PAT TLT.
(E) CORRIDOR
(E) ALCOVE
(E) CASH
(E) SUBWAIT
(E) WORK
(E) STAFF TLT
(E) PAT TLT
(E) ELEC
(E) DICT
(E) COPY
(E) WC STOR
(E) ADMIT
(E) SOILED
(E) CLEAN/ POU EQUIPMENT
(E) NURSE STATION
(E) HK
(E) ELEC
(E) TRIAGE
(E) ALCOVE
(E) CORRIDOR
(E) ALCOVE
(E) EXAM
(E) EXAM
(E) DECON. TLT
(E) ISO. EXAM
(E) EMS LOUNGE
(E) CORRIDOR
(E) RECEPTION
(E) WAITING
(E) VENDING
(E) CONS/BEREAV
(E) PHYSICIAN ROOM
(E) EXAM
(E) ORTHO/CAST
(E) CARDIAC/TRAUMA
(E) EMERGENCY WALK-UP WAITING
(E) PASSAGE
(E) SECURITY OFFICE
(E) VESTIBULE
(E) CORRIDOR
(E) EXAM
(E) EXAM
(E) EXAM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:14



1 DEMOLITION PLAN - LEVEL 02 - HVAC PIPING
1/8" = 1'-0"

GENERAL DEMO NOTES

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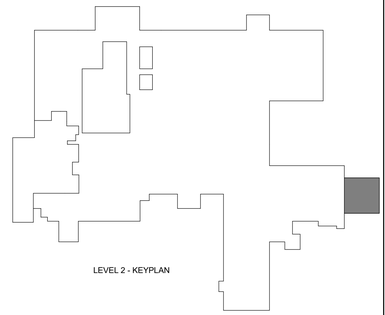
LEGEND NOTES

1. CONCRETE HOUSE KEEPING PAD EXISTING TO REMAIN. CONTRACTOR TO FIELD VERIFY FOR NEW AHU.
2. DEMOLISH CONTROL WIRING FROM THERMOSTAT TO EXISTING CAV-MP-6. THERMOSTAT IS EXISTING TO REMAIN AND WILL CONTINUE TO CONTROL EXISTING VAV-MP-5.
3. DEMOLISH HYDRONIC & STEAM PIPING SERVING (E) AHU-1 BACK TO POINTS INDICATED AND PREPARE PIPING FOR NEW CONNECTIONS.



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KANSAS CITY, MO 64105

STATE OF MISSOURI
JONATHAN DECKERT
NUMBER PE-2012039309
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

DEMOLITION PLAN - LEVEL 02 - HVAC PIPING

MD03-02

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4/22/2025 2:27:19 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/7/2025 9:17:14

GENERAL NOTES

A. REFER TO M00-00 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.
B. CONTRACTOR TO VERIFY EXISTING CONDITIONS. EXISTING WORK SHOWN IS APPROXIMATE AND REPRESENTATIVE OF EXISTING DESIGN AND AS-BUILT DRAWINGS.
C. PROVIDE REMOTE ADJUSTABLE DAMPERS FOR ANY BALANCING DAMPERS LOCATED ABOVE HARD CEILINGS.
D. ACCESS PANELS TO BE PROVIDED FOR ANY MECHANICAL EQUIPMENT OR MECHANICAL DEVICES REQUIRING SERVICE LOCATED ABOVE HARD CEILINGS.

LEGEND NOTES

1. PROVIDE SOUND LAGGING FOR 15' OF HORIZONTAL DUCT AND VERTICAL DUCT UP TO EXHAUST FAN AS SHOWN WITH DASHED LINE. REFER TO DETAILS 06/M07-01 AND 05/M07-03.
2. 8"X14" STAINLESS STEEL EA DUCT UP TO DEF-1 ON ROOF.
3. 26"X18" EXISTING EA DUCT UP TO EF-2 ON ROOF.
4. 16"16" EXISTING EA DUCT UP TO EF-1 ON ROOF.
5. 12"X8" EA-I DUCT UP TO IRF-8 ON ROOF.
6. BALANCE EXISTING DIFFUSER OR GRILLE TO CFM SHOWN ON PLAN.
7. PROVIDE DUCT STATIC PRESSURE SENSOR FOR AHU-1.
8. ROUTE NEW DUCTWORK AROUND EXISTING P-TUBE.
9. CONTRACTOR TO FIELD VERIFY EXISTING VAV ACCESS IS NOT OBSTRUCTED BY NEW DOUBLE DOORWAY. IF EXISTING VAV ACCESS IS OBSTRUCTED, CONTRACTOR TO SHIFT EXISTING VAV OUT OF OBSTRUCTION AS NEEDED TO OBTAIN FULL VAV ACCESS.

1 FLOOR PLAN - LEVEL 01 - HVAC
1/8" = 1'-0"

LEVEL 1 - KEYPLAN

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JONATHAN DICKERT NUMBER PE-2021039309
08/06/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW COMMENTS	2025/07/30

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 01 - HVAC

M02-01

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7/28/2025 4:25:38 PM

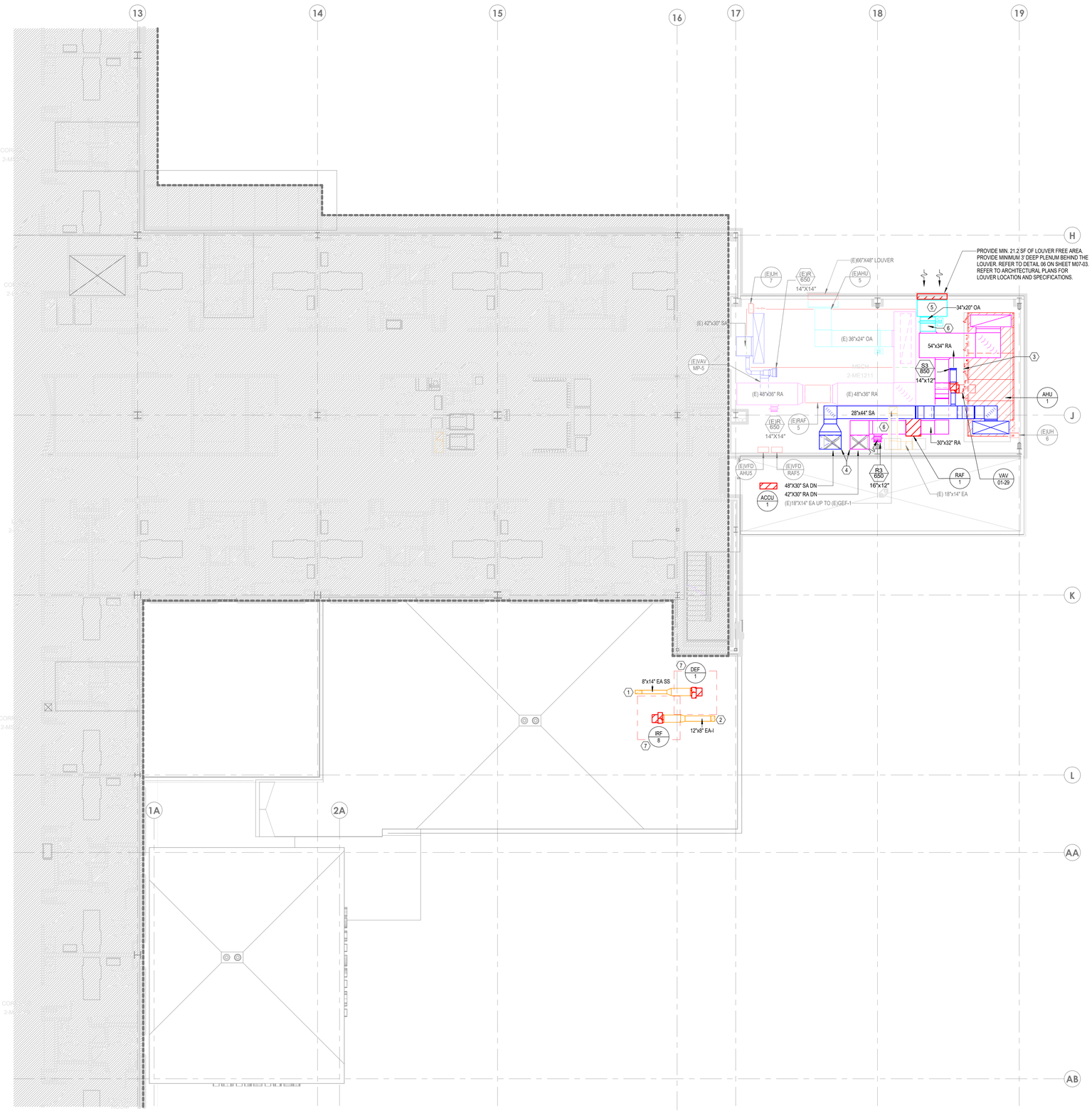
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:14

GENERAL NOTES

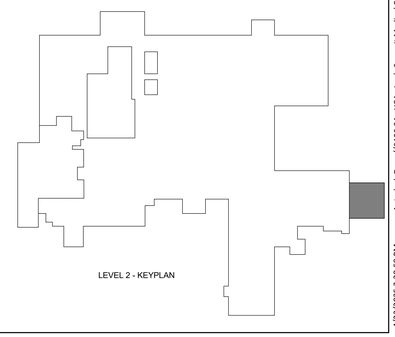
A. REFER TO M00-00 FOR GENERAL MECHANICAL NOTES AND SYMBOLS.
B. CONTRACTOR TO VERIFY EXISTING CONDITIONS. EXISTING WORK SHOWN IS APPROXIMATE AND REPRESENTATIVE OF EXISTING DESIGN AND AS-BUILT DRAWINGS.
C. PROVIDE REMOTE ADJUSTABLE DAMPERS FOR ANY BALANCING DAMPERS LOCATED ABOVE HARD CEILINGS.
D. ACCESS PANELS TO BE PROVIDED FOR ANY MECHANICAL EQUIPMENT OR MECHANICAL DEVICES REQUIRING SERVICE LOCATED ABOVE HARD CEILINGS.

LEGEND NOTES

1. 8"X14" STAINLESS STEEL EA DUCT DOWN TO LEVEL 1 DECONTAM.
2. 12"X8" EA-I DUCT DOWN TO LEVEL 1 A.I.I. EXAM 11 AND TLT.
3. AHU COIL PULL AND ACCESS CLEARANCE ON THIS SIDE OF UNIT.
4. CONTRACTOR TO LINE NEW SUPPLY DUCT UP WITH EXISTING SUPPLY PENETRATION AT THE BOTTOM RIGHT CORNER. CONTRACTOR TO LINE NEW RETURN DUCT UP WITH EXISTING RETURN PENETRATION AT THE BOTTOM LEFT CORNER. CONTRACTOR TO PROVIDE 2" CONCRETE CURB AROUND BOTH DUCT PENETRATIONS FOR WATER PENETRATION PREVENTION.
5. REFER TO DETAIL 06/M07-03 FOR LOUVER PLENUM AND DRAIN DETAILS.
6. CONTRACTOR TO INSTALL OAM II AIRFLOW MEASUREMENT SYSTEM MANUFACTURERED BY AIR MONITOR IN DUCTWORK AT LOCATION SHOWN ON PLAN. 24 V. NEMA 1.
7. REFER TO DETAIL 5/M07-02 FOR EXHAUST FAN DISCHRAGE REQUIREMENTS.



1 FLOOR PLAN - LEVEL 02 - HVAC
1/8" = 1'-0"



LEVEL 2 - KEYPLAN

Devenney GROUP

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Consultant:

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KANSAS CITY, MO 64105

STATE OF MISSOURI
JONATHAN DECKERT
NUMBER PE-2012039309
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 02 - HVAC

M02-02

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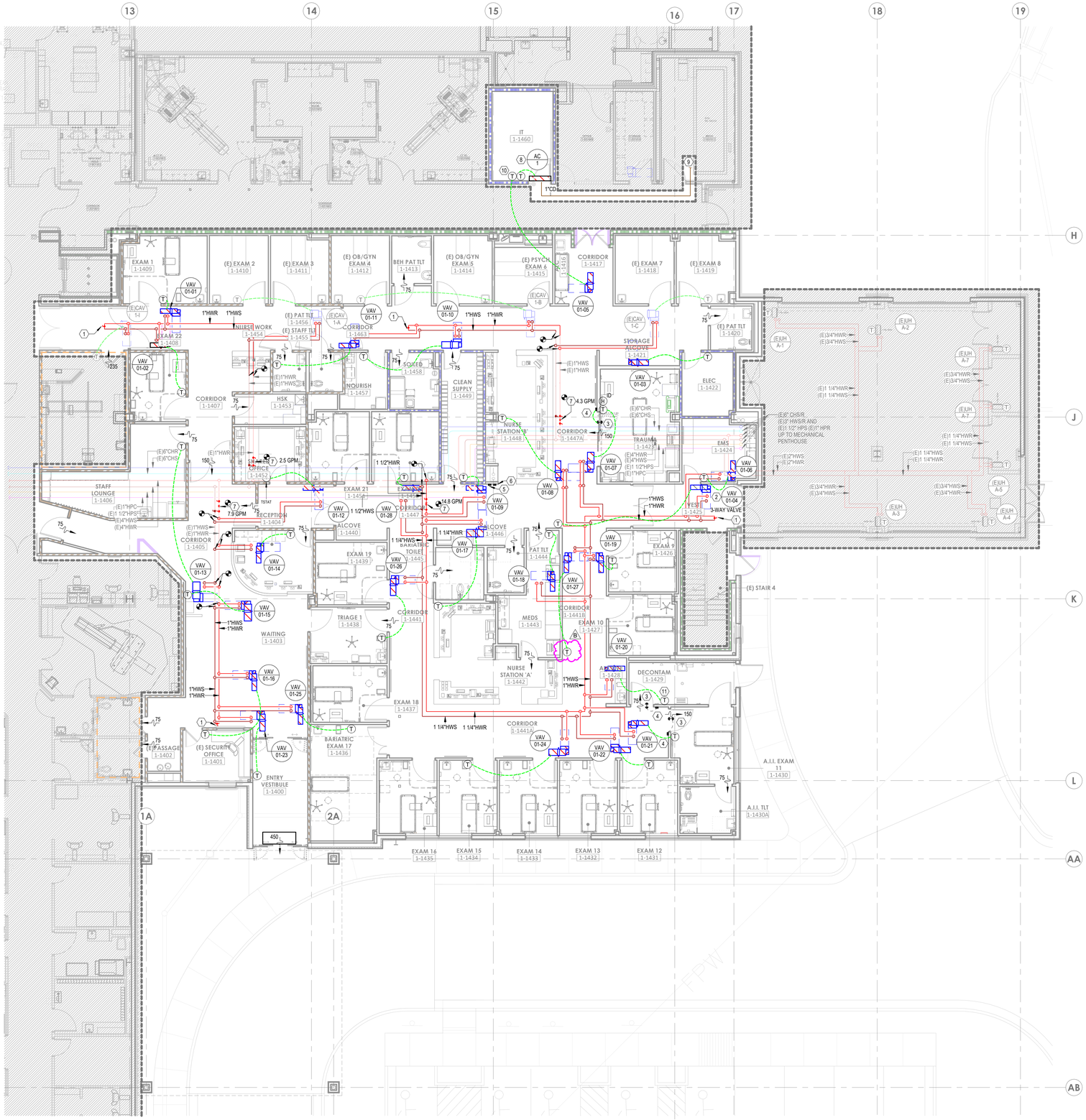
4/22/2025 2:29:59 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
6/17/2025 9:17:14



1 FLOOR PLAN - LEVEL 01 - HVAC PIPING
1/8" = 1'-0"

GENERAL NOTES

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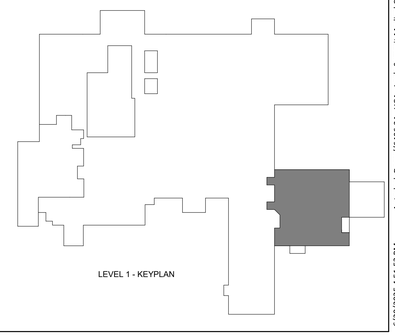
C. PROVIDE CEILING ACCESS PANELS FOR ALL EQUIPMENT, COILS, ETC. THAT ARE LOCATED ABOVE HARD CEILINGS UNLESS NOTED OTHERWISE.

LEGEND NOTES

1. PROVIDE END OF MAIN FLUSHING VALVE AT THE END OF HW PIPING RUN. REFER TO DETAIL 05/M07-01.
2. PROVIDE 3-WAY CONTROL VALVE FOR VAV AT THE END OF THE PIPING RUN.
3. DIFFERENTIAL PRESSURE SENSOR MOUNTED ABOVE DOOR.
4. PRESSURE MONITOR STATION. MOUNT AT 48" A.F.F.
5. EPO SWITCH FOR AHU-1.
6. PROVIDE PRESSURE MONITOR FOR ISOLATION ROOM.
7. CALIBRATED ORIFICE BALANCING VALVE BALANCED TO GPM INDICATED.
8. ROUTE REFRIGERANT PIPING TO CORRESPONDING CONDENSING UNIT ON ROOF. SIZE AND ROUTE PIPING PER MANUFACTURER'S REQUIREMENTS. DO NOT ROUTE REFRIGERANT PIPING OVER COMMUNICATIONS ROOM'S RACKS OR WALL-MOUNTED EQUIPMENT.
9. ROUTE CONDENSATE DRAIN LINE TO NEAREST FLOOR DRAIN.
10. PROVIDE TWO THERMOSTATS IN IT ROOM. ONE FOR VAV CONTROL AND ONE FOR MINI-SPLIT CONTROL. SET MINI-SPLIT THERMOSTAT 2-3°F LOWER THAN VAV TO PRIORITIZE MINI-SPLIT OPERATION AND ALLOW VAV TO ENGAGE AS SUPPLEMENTAL COOLING.
11. THERMOSTAT TO BE WASH DOWN TYPE. PROVIDE PLASTIC COVER.



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MATTHEW SIMMONS
NUMBER PE-2017026134
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 01 - HVAC PIPING

M03-01

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6/20/2025 4:51:52 PM

RELEASE FOR CONSTRUCTION
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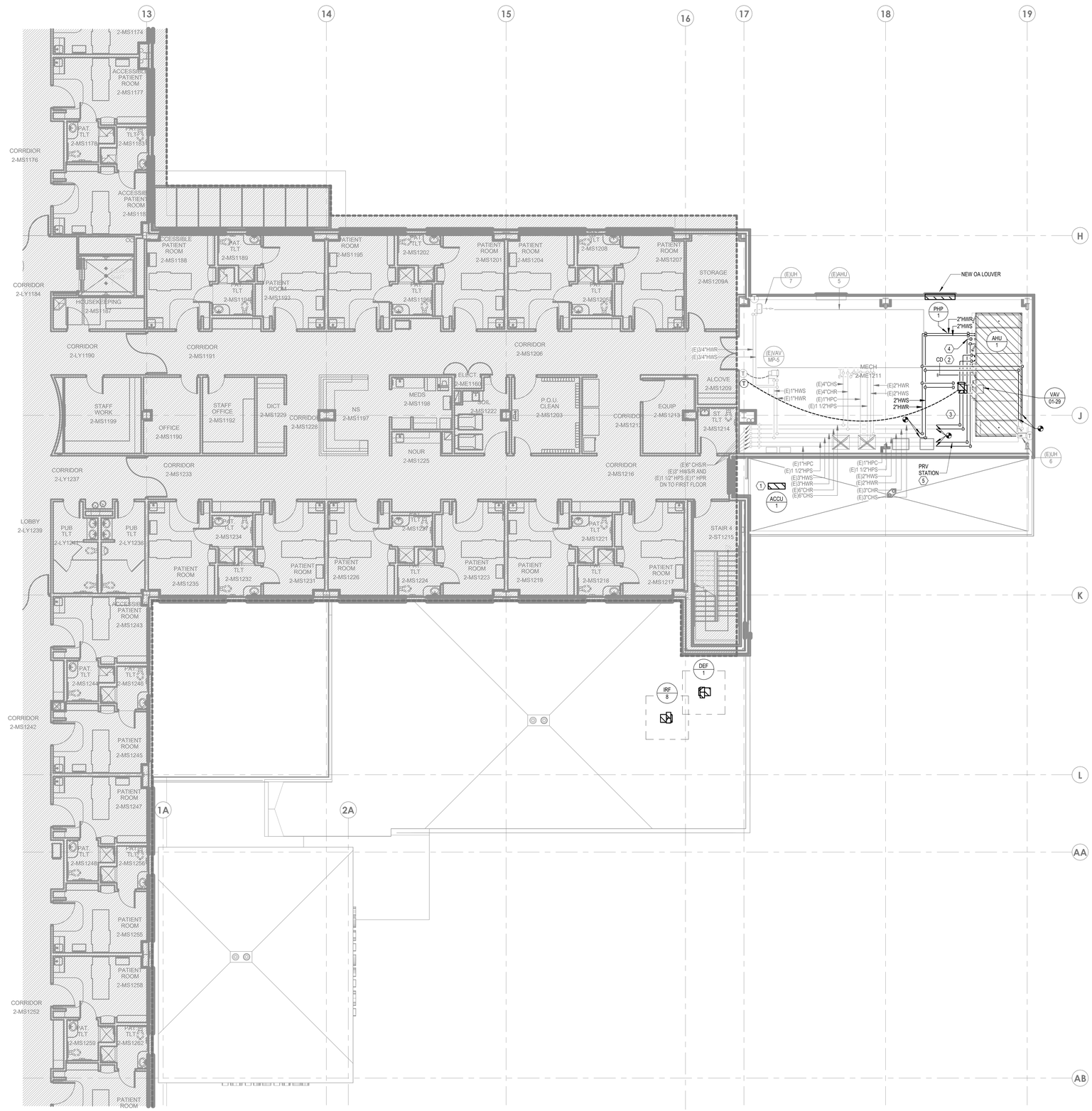
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:14



1 FLOOR PLAN - LEVEL 02 - HVAC PIPING
1/8" = 1'-0"

GENERAL NOTES

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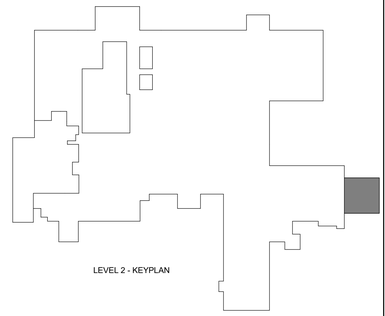
LEGEND NOTES

1. ROUTE REFRIGERANT PIPING FROM CONDENSING UNIT TO CORRESPONDING AC UNIT, AC-1, IN IT ROOM 1-1460. SIZE AND ROUTE PIPING PER MANUFACTURER'S REQUIREMENTS.
2. ROUTE CONDENSATE DRAIN LINE TO NEAREST FLOOR SINK.
3. PROVIDE NEW VALVES AS SHOWN ON CHILLED WATER AND HEATING WATER DETAILS.
4. REFER TO DETAIL 3/M07-04 FOR HUMIDIFICATION SYSTEM REQUIREMENTS.
5. PROVIDE NEW PRESSURE REDUCING VALVE STATION.



LEVEL 2 - KEYPLAN

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PROFESSIONAL ENGINEER
STATE OF MISSOURI
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
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AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 02 - HVAC PIPING

M03-02

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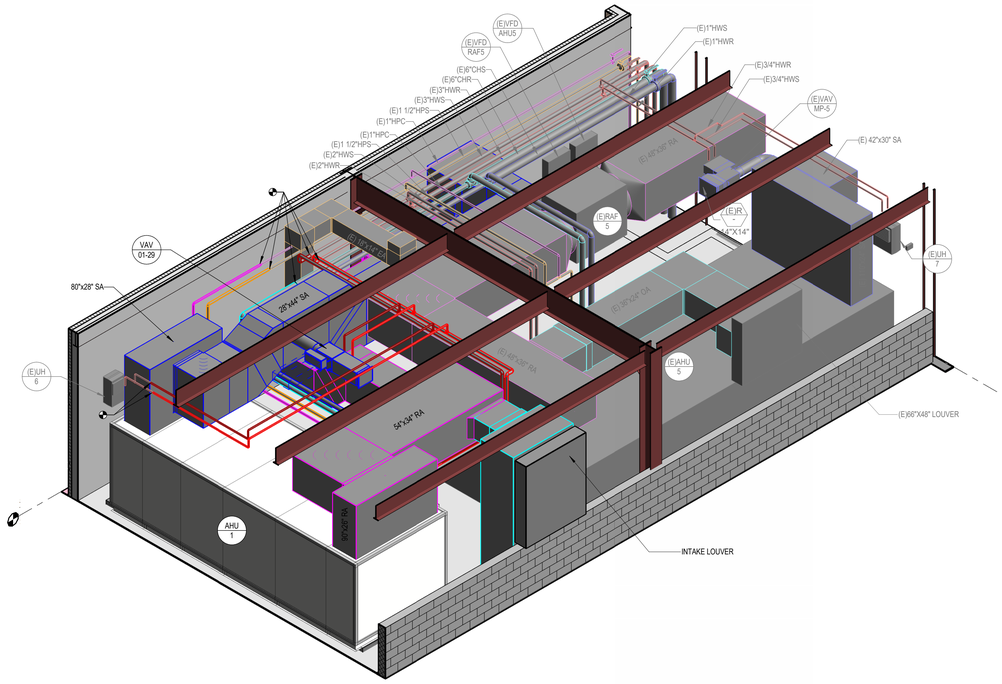
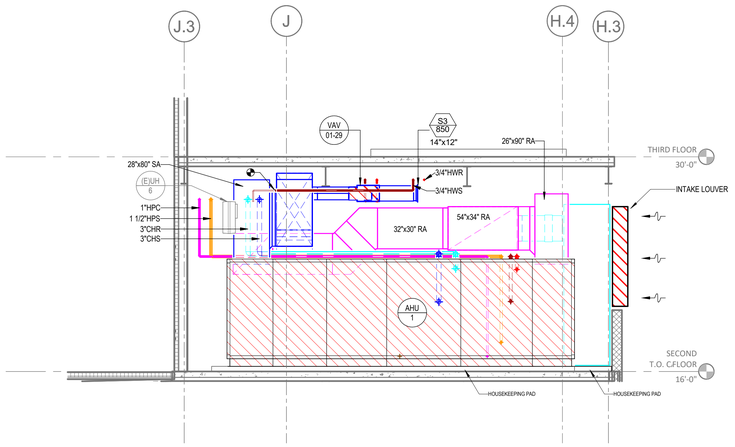
4/22/2025 2:27:31 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:15

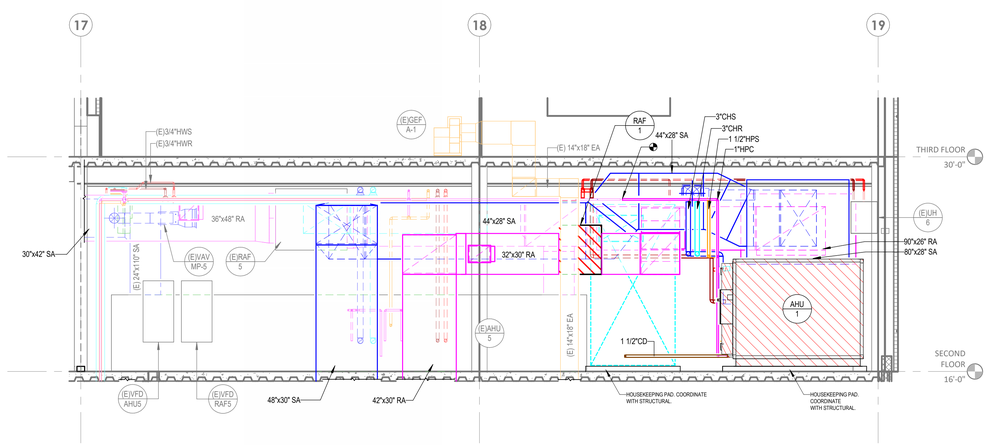


3 MECH ROOM - 3D

3D VIEW AND SECTION VIEWS PROVIDED FOR REFERENCE ONLY



2 MECH ROOM SECTION - 2
1/4" = 1'-0"



1 MECH ROOM SECTION - 1
1/4" = 1'-0"

Devenney Group Ltd., Architects

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T: 602.943.8950

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Consultant:

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KANSAS CITY, MO 64105

JONATHAN DECKERT
NUMBER PE-2012039309
STATE OF MISSOURI
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/4" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

ENLARGED PLANS - MECHANICAL

M05-01

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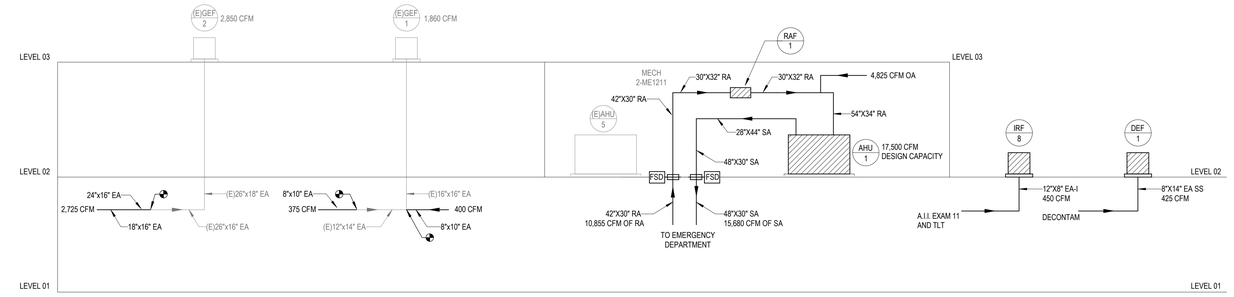
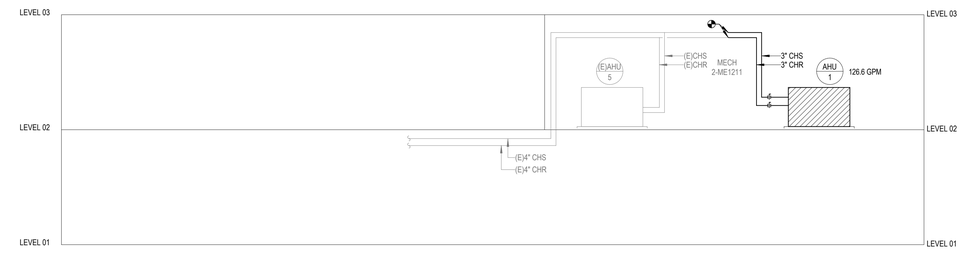
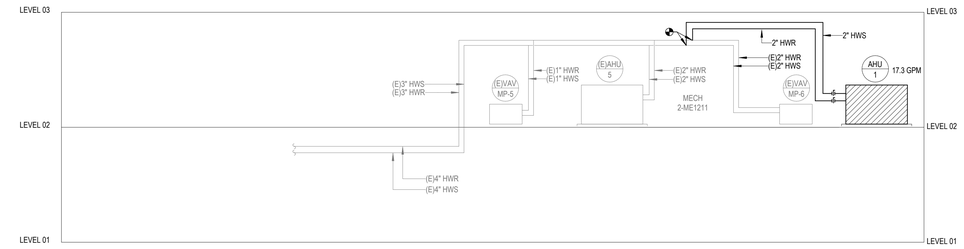


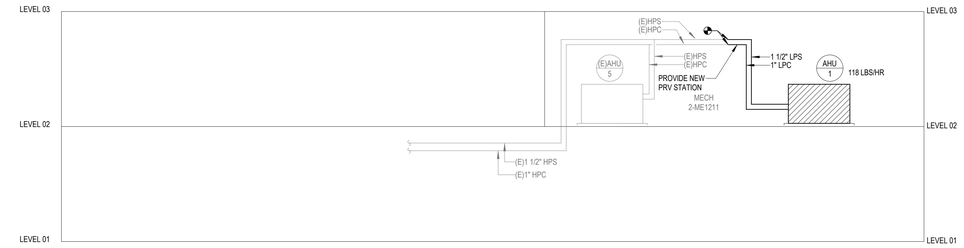
4 AIR RISER DIAGRAM
1/8" = 1'-0"



3 CHILLED WATER RISER DIAGRAM
1/8" = 1'-0"



2 HEATING HOT WATER RISER DIAGRAM
1/8" = 1'-0"



1 STEAM HUMIDIFIER RISER DIAGRAM
1/8" = 1'-0"

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STATE OF MISSOURI
JONATHAN DECKERT
NUMBER PE-2021039309
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

RISER DIAGRAM - MECHANICAL

M06-01

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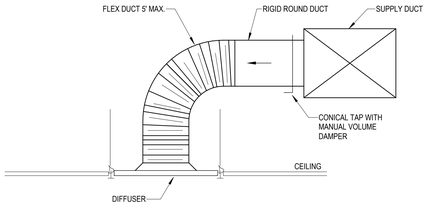
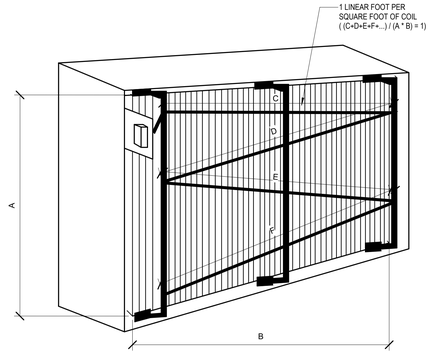


GENERAL NOTE:
A. FLEX DUCT NOT ALLOWED IN EXPOSED LOCATIONS OR IN INACCESSIBLE CONCEALED LOCATIONS.

7 DIFFUSER CONNECTION ROUND RUNOUT
NOT TO SCALE



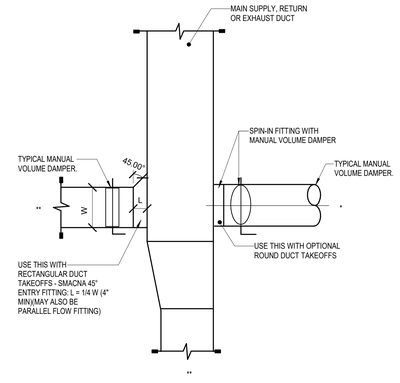
SECURE THE SENSOR ELEMENT BY PROVIDING AND ARAY TO SUPPORT THE CAPILARY TUBE ACROSS THE FACE OF THE COIL

IF DISSIMILAR METALS ARE USED IN THIS PROCESS ENSURE THE ELEMENTS IS SECURED AND ISOLATED TO PREVENT DAMAGE TO THE CAPILARY AT ALL JUNCTIONS.

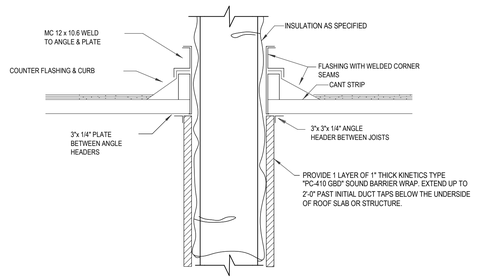
ENSURE THE COIL IS PROPERLY COVERED BY PROVIDING 1 LINEAR FOOT FOR EACH SQUARE FOOT OF COIL AREA I.E. IF THE COIL IS 2'x4' THE TOTAL AREA IS 8 SQUARE FEET WHICH WOULD RESULT IN AN 8' CAPILARY LENGTH PROPERLY SPACED TO PROVIDE COVERAGE.

THERE SHOULD BE ADEQUATE SPACE BETWEEN THE COIL AND ELEMENT, TO ALLOW FOR COIL CLEANING WITHOUT REMOVING THE CAPILARY TUBE.

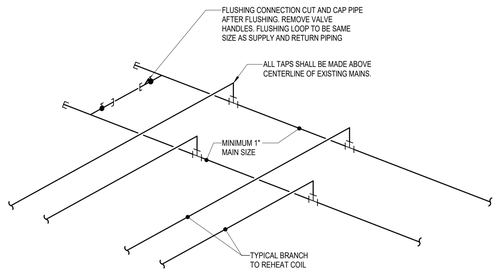
4 MIXED AIR SENSOR INSTALLATION
NOT TO SCALE



2 LOW PRESSURE DUCT VOLUME DAMPER REQUIREMENTS
NOT TO SCALE



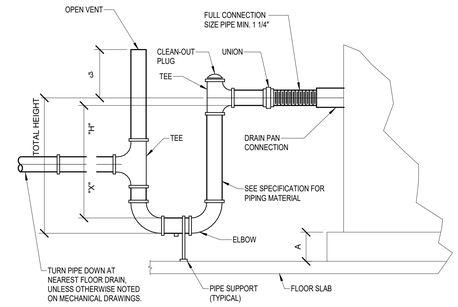
6 DUCT THROUGH ROOF WITH SOUND LAGGING
NOT TO SCALE



5 HVAC REHEAT HOT WATER END OF MAIN FLUSHING DETAIL
NOT TO SCALE

NOTE:

1. ELEVATED A/C UNIT SUFFICIENT DISTANCE ABOVE FLOOR OR ROOF TO ALLOW FOR INSTALLATION OF TRAP WITH ADEQUATE DIMENSIONS TO WITHSTAND SYSTEM OPERATING PRESSURE. COORDINATE WITH DETAIL FOR A/C UNIT MOUNTING.



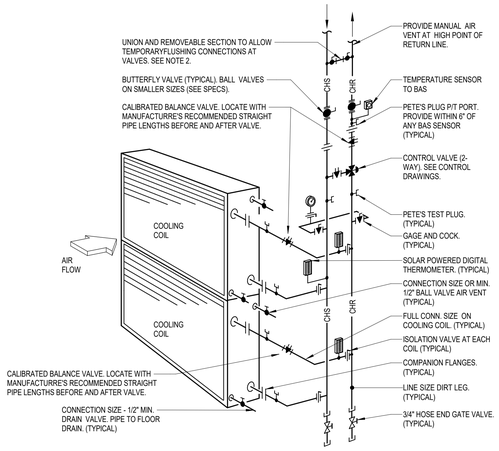
TOTAL HEIGHT OF TRAP = X+H+(11/2 x PIPE DIAMETER)

FOR DRAW THRU UNITS
X = MIN. 1H (PREFERRED 11/2 H)
H = NEGATIVE STATIC PRESSURE + 1"

FOR BLOW THRU UNITS
X = FAN STATIC PRESSURE +1"
H = MIN. 1"

A= HOUSE KEEPING PAD MINIMUM 4", ACTUAL PAD DIMENSION IS SUBJECT TO CALCULATION OF PIPE TRAP DEPTH ON A UNIT BY UNIT BASIS.

3 COOLING COIL CONDENSATE DRAIN
NOT TO SCALE



NOTES:

1. WATER SHALL ENTER COIL ON THE AIR LEAVING SIDE. OFFSET PIPING AS SHOWN TO ALLOW COIL PULL ACCESS WITHOUT DISMANTLING VERTICAL RISERS.
2. PROVIDE MINIMUM 2" FLUSH CONNECTION WITH 2" BALL VALVES. CONNECT TO SUPPLY AND RETURN MAINS WITH TEMPORARY FLUSH PIPE. PIPE MAY BE CLEAR PLASTIC SECURED WITH RADIATOR CLAMPS. AFTER FLUSHING REMOVE TEMPORARY PIPING, CAP EACH END OF PIPE. CLOSE FLUSHING VALVES AND REMOVE HANDLES.

1 CHILLED WATER PIPING AT MULTIPLE COOLING COIL
NOT TO SCALE

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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US00040241.3707

DETAILS - MECHANICAL

M07-01

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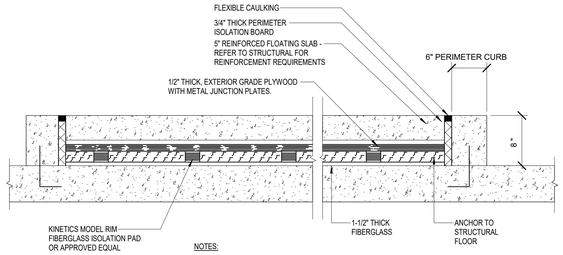
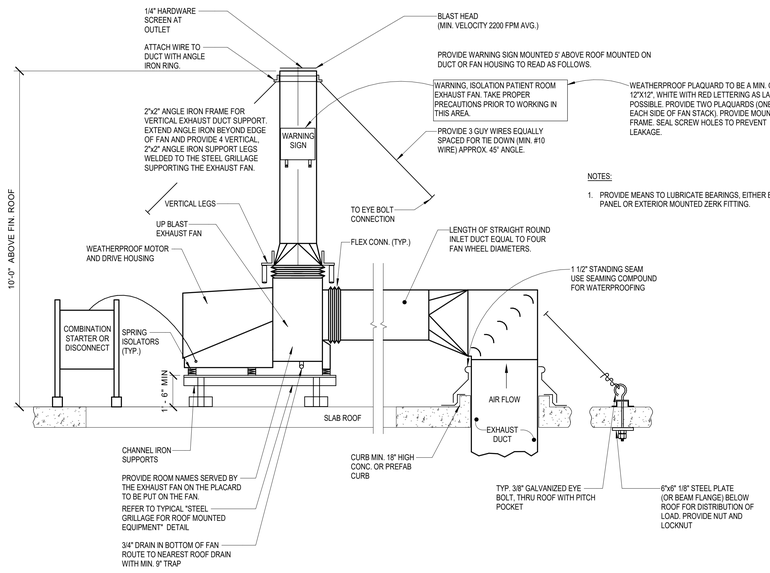


NOTES:

1. THIS DETAIL IS APPLICABLE TO ALL AIR HANDLING UNITS LOCATED ABOVE THE GROUND FLOOR, EXCEPT WHEN NOT LOCATED ABOVE OCCUPIED SPACE (I.E. STACKED MECHANICAL ROOMS).

6 BASIC FLOATING EQUIPMENT PAD DETAIL
NOT TO SCALE

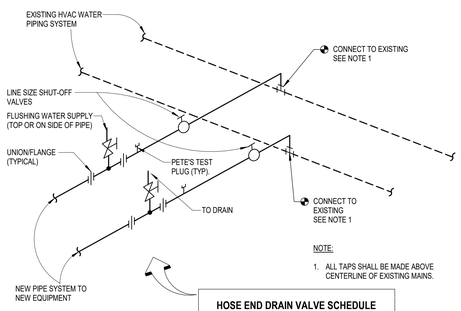


NOTES:

1. PROVIDE MEANS TO LUBRICATE BEARINGS, EITHER BY ACCESS PANEL OR EXTERIOR MOUNTED ZERK FITTING.

5 ROOF MOUNTED VENT SET
NOT TO SCALE

4 PIPING SUPPORT HANGERS
NOT TO SCALE



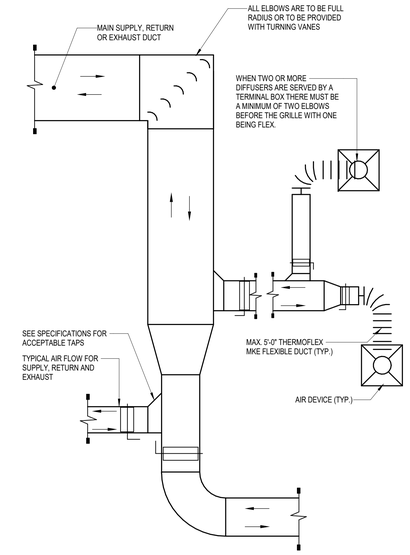
NOTE:

1. ALL TAPS SHALL BE MADE ABOVE CENTERLINE OF EXISTING MAINS.

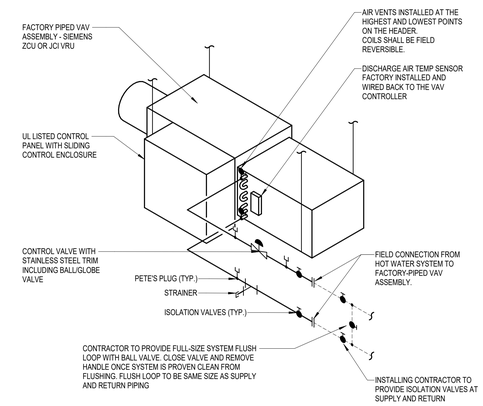
HOSE END DRAIN VALVE SCHEDULE

PIPE SIZE	DRAIN VALVE SIZE
UP TO 2"	3/4"
2 1/2" TO 4"	1 1/4"
5" TO 8"	2"
OVER 8"	2 1/2"

3 PIPING CONNECTION DETAIL
NOT TO SCALE



2 TYPICAL LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCT DETAIL
NOT TO SCALE



NOTES:

1. CONTRACTOR TO PROVIDE PIPING THE SAME FOR HEATING COIL IN HOT WATER REHEAT AIR TERMINAL AND FOR DUCT MOUNTED HOT WATER HEATING COILS.
2. MAINTAIN HOT WATER RETURN PIPING ELEVATION BELOW ELEVATION OF AIR VENT.

1 PIPING AT TERMINAL REHEAT
NOT TO SCALE

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DETAILS - MECHANICAL

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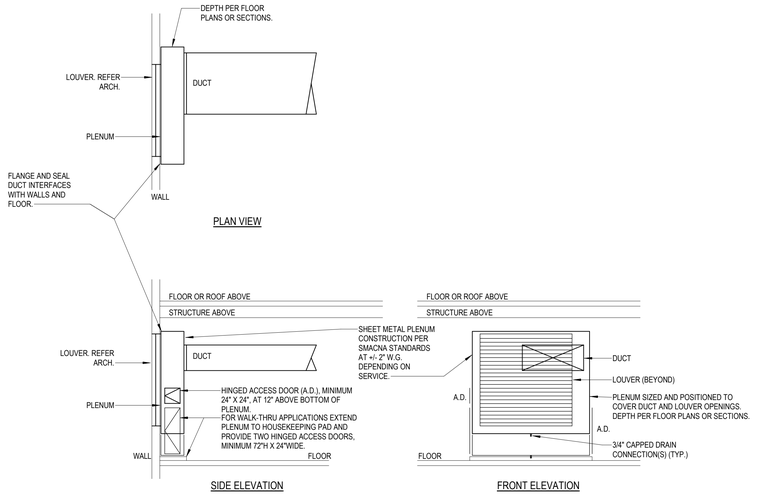
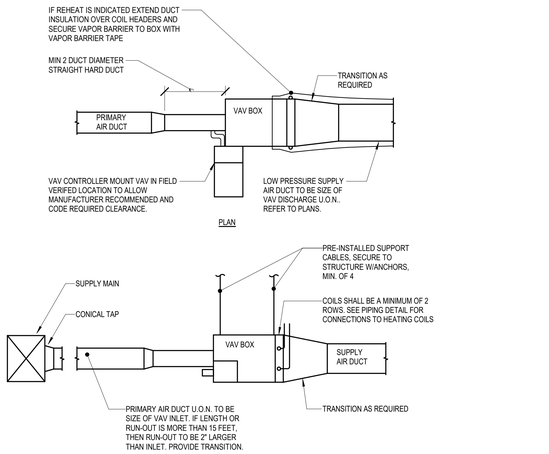


6 LOUVER WITH PLENUM AND DUCT CONNECTION
NOT TO SCALE

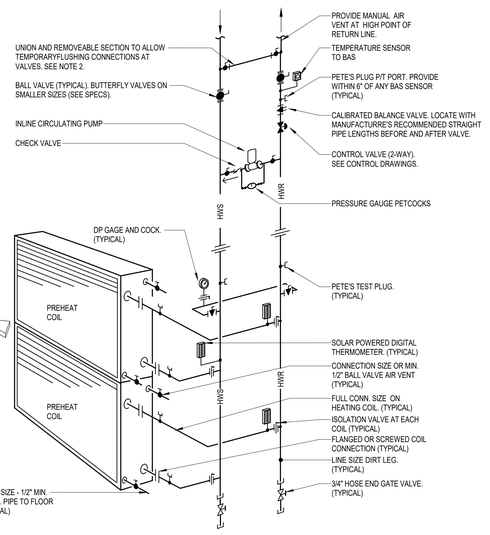


NOTE:

1. THIS DETAIL REFERS TO VAV AND CONSTANT VOLUME HOT WATER REHEAT AIR TERMINAL UNITS AND VAV AIR TERMINAL UNITS WITHOUT REHEAT.
2. TAP FITTING TO RECTANGULAR MEDIUM PRESSURE DUCT MAY ALSO BE RECTANGULAR 45° ENTRY, REFER TO DRAWINGS FOR REQUIRED SHOE TAP DUCT SIZES.
3. MEDIUM PRESSURE ROUND TRUNK DUCT TO HAVE CONICAL TEE FITTING, WITH OTHER REQUIREMENTS AS SHOWN.
4. BOXES 1400 CFM OR LESS TO BE SUPPORTED WITH REINFORCING ANGLE WITH 3/8" GALVANIZED ALL THREAD ROD HANGERS.
5. COORDINATE REQUIREMENT FOR CEILING ACCESS PANELS WITH DIVISION 8 AND ARCHITECTURAL RCP.

2 VAV BOX INSTALLATION DETAIL
NOT TO SCALE

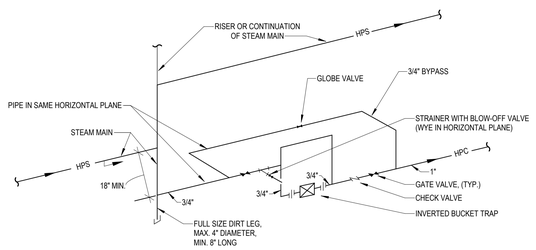
5 DUCT SOUND LAGGING DETAIL
NOT TO SCALE



NOTES:

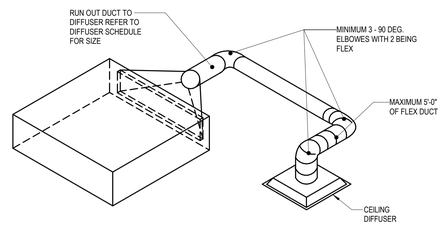
1. WATER SHALL ENTER COIL ON THE AIR LEAVING SIDE. OFFSET PIPING AS SHOWN TO ALLOW COIL PULL ACCESS WITHOUT DISMANTLING VERTICAL RISERS.
2. PROVIDE MINIMUM 2" FLUSH CONNECTION WITH 2" BALL VALVES. CONNECT TO SUPPLY AND RETURN MAINS WITH TEMPORARY FLUSH PIPE. PIPE MAY BE CLEAR PLASTIC SECURED WITH RADIATOR CLAMPS. AFTER FLUSHING REMOVE TEMPORARY PIPING, CAP EACH END OF PIPE, CLOSE FLUSHING VALVES AND REMOVE HANDLES.

1 HOT WATER PIPING AT MULTIPLE PREHEAT COIL
NOT TO SCALE



GENERAL NOTE:
A. PORT SIZE OF BYPASS GLOBE VALVE SHALL MATCH ORIFICE SIZE OF THE TRAP.

4 END OF MAIN DRIP HPS PIPING
NOT TO SCALE



3 VAV BOX SERVING SINGLE DIFFUSER DETAIL
NOT TO SCALE

Devenney Group Ltd., Architects

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Suite 500
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T: 602.943.8950

www.devenneygroup.com

Consultant:

300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

JONATHAN DECKERT NUMBER PE-2012039309 STATE OF MISSOURI PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

DETAILS - MECHANICAL

M07-03

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RELEASE FOR CONSTRUCTION
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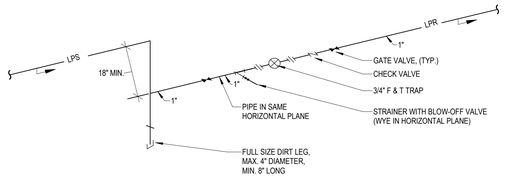
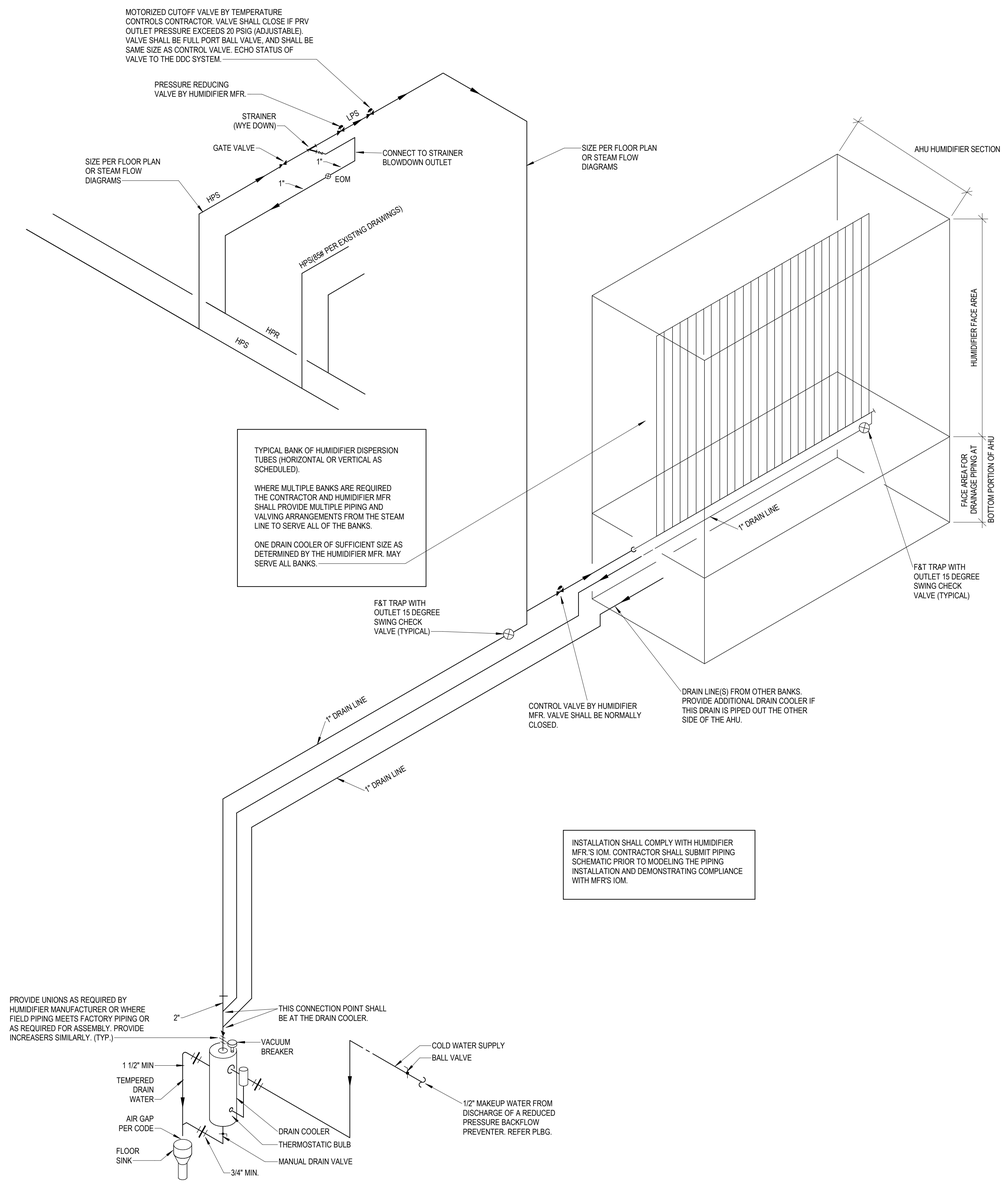
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:15

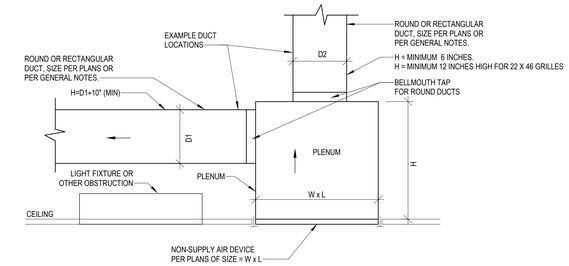


GENERAL NOTE:
A. PORT SIZE OF BYPASS GLOBE VALVE SHALL MATCH ORIFICE SIZE OF THE TRAP.

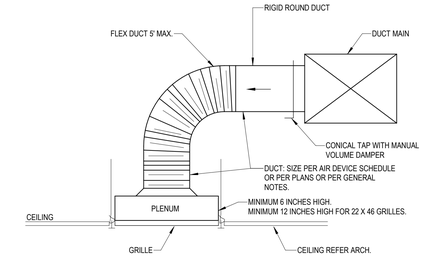
4 STEAM - FLOAT AND THERMOSTATIC TRAP PIPING
NOT TO SCALE



3 HUMIDIFIER-AHU-DIRECT STEAM-HPS TO LPS AND DRAIN COOLER
NOT TO SCALE

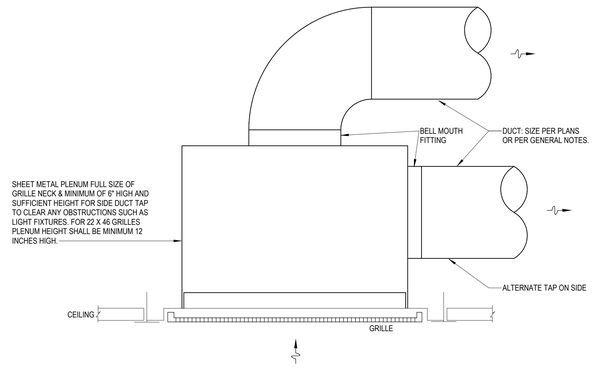


C. GRILLE RETURN OR EXHAUST CONNECTION - ROUND OR RECTANGULAR RUNOUT WITH HARD DUCT

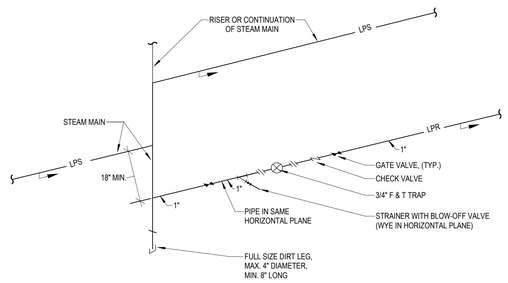


GENERAL NOTE:
FLEX DUCT NOT ALLOWED IN EXPOSED LOCATIONS OR IN INACCESSIBLE CONCEALED LOCATIONS.

B. GRILLE RETURN OR EXHAUST CONNECTION - ROUND RUNOUT WITH FLEXIBLE DUCT



2 GRILLE RETURN OR EXHAUST
NOT TO SCALE



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1 END OF MAIN DRIP LPS PIPING
NOT TO SCALE

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JONATHAN DECKERT
NUMBER PE-2012039309
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AGENCY

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DETAILS - MECHANICAL

M07-04

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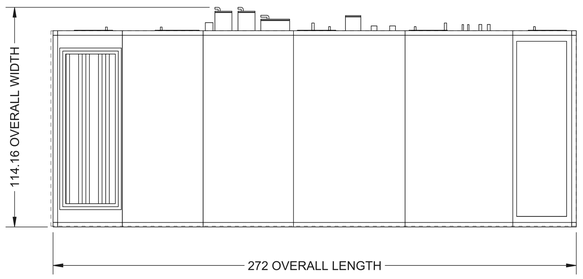
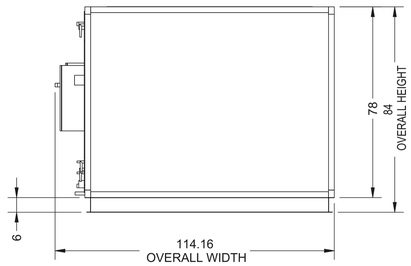
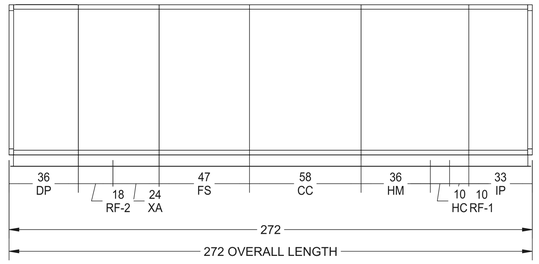
TOP [PLAN] VIEW



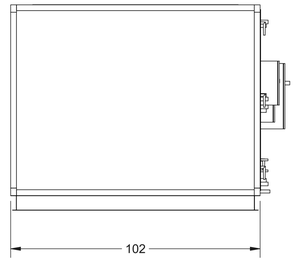
REAR VIEW

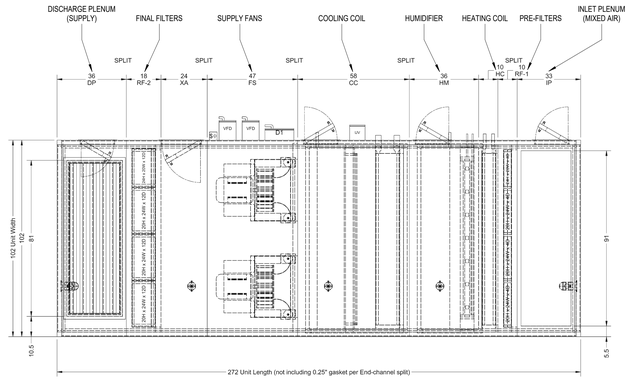


LEFT [ELEVATION] VIEW



FRONT VIEW





AHU-1 ELEVATION VIEWS

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LEE'S SUMMIT, MISSOURI
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FAN SCHEDULE

DESIGNATION	LOCATION	SERVES	BALANCED CFM	ESP	BHP	MAX	FAN DATA			ELECTRICAL MOTOR DATA			AVAILABLE FAULT	APPROX.	MANUF. /	NOTES
				(IN WG)		dBA	TYPE	RPM	DRIVE	HP	VOLT / PH	STARTER	SCCR (AMPS)	WEIGHT (LBS)	MODEL	
RAF-1	MECH ROOM 2-ME1211	AHU-1	10,855	1.5	5.29	77	MIXED FLOW INLINE	1248	DIRECT	10	460 / 3	ECM	5k*	330	GREENHECK / SQ-24-VG	8,9
DEF-1	ED EXPANSION ROOF (LEVEL 2)	DECONTAM (LEVEL 1)	425	1	0.14	71	UTILITY VENT SET	1671	DIRECT	1 / 4	460 / 3	HOA	5k*	148	GREENHECK / USF-04-B7	1-7
IRF-8	ED EXPANSION ROOF (LEVEL 2)	A.I.I. EXAM 11, A.I.I. TLT (LEVEL 1)	450	1	0.14	71	UTILITY VENT SET	1672	DIRECT	1 / 4	460 / 3	HOA	5k*	148	GREENHECK / USF-04-B7	1-7

NOTES:

1 PROVIDE BIRDSCREEN.
2 24" HIGH STEEL CURB, INSULATED, SLOPED BASE, LEVEL TOP.
3 SCROLL DRAIN PLUG, ALL WELDED STEEL FAN HOUSING, ALL WELDED STEEL FAN WHEEL, CLEAN OUT PLATE ON
4 FAN HOUSING, 95% SPRING RUBBER VIBRATION ISOLATORS, MOTOR & DRIVE COVER, FLANGED DUCT OUTLET.
5 UPBLAST DISCHARGE.
6 PROVIDE FLEX CONNECTION AT FAN INLET.
7 PROVIDE 10 FT EXHAUST STACK. EXHAUST SHOULD DISCHARGE 10 FT FROM THE FINISHED ROOF.
8 OAM II AIRFLOW MEASUREMENT SYSTEM MANUFACTURED BY AIR MONITOR TO BE DUCT-MOUNTED IN RETURN MAIN NEAR RAF-1. 24 V. NEMA 1.
9 INSTALL PER MANUFACTURER REQUIREMENTS.
*SCCR RATING TO MEET OR EXCEED PANEL AIC RATING

VAV TERMINAL UNIT W/ HEATING WATER COIL SCHEDULE FOR AHU-01

DESIGNATION	VAV						H.W. COIL										
	INLET SIZE (IN)	MIN CFM	COOLING CFM	HEATING CFM	OUTLET SIZE (IN / IN)	VALVE MAX APD (IN WG)	EAT DB °F	LAT DB °F	CAPACITY MBH	EWT °F	LWT °F	GPM	MAX WATER P.D. (FT)	MAX P.D. AIR (IN WG)	MAX N.C.	JCI MODEL	NOTES
VAV 01-01	6	175	200	175	10 / 10	0.25	52	90	6.9	140	110	0.5	10	0.50	25	TSS-WC-6	1-10
VAV 01-02	6	125	150	125	10 / 10	0.25	52	90	4.9	140	110	0.3	10	0.50	25	TSS-WC-6	1-10
VAV 01-03	8	0	600	0	12 / 10	0.25	-	-	-	140	110	-	10	0.50	25	TSS-WC-8	1-5, 7-9
VAV 01-04	6	325	325	325	10 / 10	0.25	52	90	12.8	140	110	0.9	10	0.50	25	TSS-WC-6	ALL
VAV 01-05	8	0	600	0	12 / 10	0.25	-	-	-	140	110	-	10	0.50	25	TSS-WC-8	1-5, 7-9
VAV 01-06	6	75	125	75	10 / 10	0.25	52	90	3.0	140	110	0.2	10	0.50	25	TSS-WC-6	1-10
VAV 01-07	10	725	725	725	14 / 12	0.25	52	90	28.6	140	110	1.9	10	0.50	25	TSS-WC-10	1-10
VAV 01-08	8	600	600	600	12 / 10	0.25	52	90	23.6	140	110	1.6	10	0.50	25	TSS-WC-8	1-10
VAV 01-09	6	150	150	150	10 / 10	0.25	52	90	5.9	140	110	0.4	10	0.50	25	TSS-WC-6	1-10
VAV 01-10	8	400	575	400	12 / 10	0.25	52	90	15.8	140	110	1.1	10	0.50	25	TSS-WC-8	1-10
VAV 01-11	6	150	150	150	10 / 10	0.25	52	90	5.9	140	110	0.4	10	0.50	25	TSS-WC-6	1-10
VAV 01-12	6	100	275	100	10 / 10	0.25	52	90	3.9	140	110	0.3	10	0.50	25	TSS-WC-6	1-10
VAV 01-13	12	875	1,025	875	16 / 16	0.25	52	90	34.5	140	110	2.3	10	0.50	25	TSS-WC-12	1-10
VAV 01-14	6	75	200	75	10 / 10	0.25	52	90	3.0	140	110	0.2	10	0.50	25	TSS-WC-6	1-10
VAV 01-15	12	1,125	1,125	1,125	16 / 16	0.25	52	90	44.3	140	110	3.0	10	0.50	25	TSS-WC-12	1-10
VAV 01-16	6	75	210	75	10 / 10	0.25	52	90	3.0	140	110	0.2	10	0.50	25	TSS-WC-6	1-10
VAV 01-17	12	1,150	1,150	1,150	16 / 16	0.25	52	90	45.3	140	110	3.0	10	0.50	25	TSS-WC-12	1-10
VAV 01-18	6	150	275	150	10 / 10	0.25	52	90	5.9	140	110	0.4	10	0.50	25	TSS-WC-6	1-10
VAV 01-19	6	250	350	250	10 / 10	0.25	52	90	9.8	140	110	0.7	10	0.50	25	TSS-WC-6	1-10
VAV 01-20	6	125	350	125	10 / 10	0.25	52	90	4.9	140	110	0.3	10	0.50	25	TSS-WC-6	1-10
VAV 01-21	6	300	300	300	10 / 10	0.25	52	90	11.8	140	110	0.8	10	0.50	25	TSS-WC-6	1-10
VAV 01-22	8	325	525	325	12 / 10	0.25	52	90	12.8	140	110	0.9	10	0.50	25	TSS-WC-8	1-10
VAV 01-23	8	450	450	450	12 / 10	0.25	52	90	17.7	140	110	1.2	10	0.50	25	TSS-WC-8	1-10
VAV 01-24	10	450	750	450	14 / 12	0.25	52	90	17.7	140	110	1.2	10	0.50	25	TSS-WC-10	1-10
VAV 01-25	6	250	275	250	10 / 10	0.25	52	90	9.8	140	110	0.7	10	0.50	25	TSS-WC-6	1-10
VAV 01-26	8	550	550	550	12 / 10	0.25	52	90	21.7	140	110	1.4	10	0.50	25	TSS-WC-8	1-10
VAV 01-27	6	100	100	100	10 / 10	0.25	52	90	3.9	140	110	0.3	10	0.50	25	TSS-WC-6	1-10
VAV 01-28	6	300	350	300	10 / 10	0.25	52	90	11.8	140	110	0.8	10	0.50	25	TSS-WC-6	1-10
VAV 01-29	10	275	850	275	14 / 12	0.25	52	90	10.8	140	110	0.7	10	0.50	25	TSS-WC-10	1-10
TOTALS	-	9,650	13,310	9,650	-	-	-	-	380.2	-	-	25.7	-	-	-	-	-

NOTES:

1. UNIT MOUNTED / WIRED FACTORY CONTROL PANEL.
2. PRESSURE INDEPENDENT CONTROLS COMPATIBLE WITH BUILDING CONTROLS SYSTEM.
3. CONSTANT AIR VOLUME (CAV) BOXES SHALL BE IDENTICAL TO VARIABLE AIR VOLUME (VAV) BOXES.
4. FACTORY INTERNAL INSULATION: 1/2" THICK INTERNAL FIBER FREE, CLOSED CELL INSULATION.
5. CFM DELIVERY SHALL BE ACCURATE WITHIN 5% OF FROM 25-100% OF SCHEDULED BOX CFM.
6. H.W. COIL SHALL BE LOCATED AT DISCHARGE OF BOX.
7. OUTLET PLENUM BY CONTRACTOR. PROVIDE PLENUM WHERE INDICATED ON PLANS. DIMENSIONS ARE MINIMUM. COORDINATE WITH RUNOUT SIZES TO AIR DEVICES. PROVIDE TRANSITION FROM BOX OUTLET TO PLENUM.
8. BOXES SCHEDULED WITHOUT A HEATING WATER GPM SHALL NOT HAVE HEATING COILS, UNLESS OTHERWISE INDICATED.
9. CONTROLS SHALL BE FURNISHED AN SHIPPED TO TERMINAL BOX FACTORY BY TEMPERATURE CONTROLS MANUFACTURER. CONTROLS SHALL BE INSTALLED AT TERMINAL BOX FACTORY BY TERMINAL BOX MANUFACTURER.
10. PROVIDE PIPING CONNECTION TO TERMINAL UNIT REHEAT COILS AS SCHEDULED:
    0 - 4.0 GPM
    4.1 - 8.0 GPM
    8.1 - 15.0 GPM
11. PROVIDE 3-WAY VALVES FOR ALL VAVS AT END OF HW PIPING RUNS AS NOTED ON THE PIPING PLANS.

AIR HANDLING UNIT - SCHEDULE

MARK		AHU-1
SERVES		LEVEL 1 ED
SUPPLY FAN	CFM (AHU TOTAL SA)	17500
	BALANCE CFM	15680
	ESP / TSP ("WC)	2.50/6.51
	FAN MOTOR QTY / HP (MIN)	2 / 15 HP
	FAN MOTOR BHP PER FAN	6.44 BHP
	(VOLTS/PHASE)	460/3
	FAN WHEEL TYPE	SWSI
	DRIVE	DIRECT
RETURN FAN	RAF-1 (DUCT-MOUNTED) (SEE FAN SCHEDULE FOR INFORMATION)	
COOLING COIL DATA	TYPE COIL	CHW
	DESIGN CFM	17500
	MAX. FACE VEL. (FPM)	426
	(MAX. AIR P.D. ("WG) = 1.00 U.N.O.)	0.77
	TOTAL / SENS / LAT (MBH) (MINIMUM)	888 / 562 / 326
	EAT °F DB/WB	80 / 67
	LAT °F DB/WB	49.3 / 49.1
	EWT °F / LWT °F (REFERENCE)	42 / 56
	GPM (MAXIMUM)	126.6
	WATER PD (FT.) (MAXIMUM)	8.3
	MINIMUM ROWS / MAXIMUM FINS PER INCH	8 / 9
HEATING COIL DATA	TYPE / POSITION	HW / PREHEAT
	DESIGN CFM	17500
	MAX. FACE VEL. (FPM) (AT MAX AHU CFM)	426
	MAXIMUM AIR P.D. ("WG) (AT MAX AHU CFM)	0.1
	EAT °F DB / LAT °F DB (REFERENCE)	40 / 53.7
	MINIMUM MBH OUTPUT	259
	EWT °F / LWT °F (REFERENCE)	140 / 110
	GPM (MAXIMUM)	17.3
	WATER PD (FT.) (MAXIMUM)	5.2
	MINIMUM ROWS / MAXIMUM FINS PER INCH	1 / 8
HUMIDIFIER DATA	TYPE	DIRECT INJECTION STEAM
	DESIGN CFM	17500
	STEAM PSI	15
	HUMIDIFICATION LOAD (LBS/HR)	191
	EAT & RH % / LAT & RH%	50 & 34% / 50 & 65%
	ABSORPTION DISTANCE (IN)	9.72
OUTSIDE AIR CFM (MINIMUM)		4825
FIRST FILTER DATA	TYPE	4" MINI PLEAT
	EFFICIENCY (%) (ASHRAE 52)	60% (MERV 11)
	MAXIMUM VELOCITY (FPM)	430
	P.D. (CLEAN/DIRTY) (INCHES W.G.)	0.40 / 0.85
FINAL FILTER DATA	TYPE	12" RIGID
	EFFICIENCY (%) (ASHRAE 52)	90% (MERV 14)
	MAXIMUM VELOCITY (FPM)	430
	P.D. (CLEAN/DIRTY) (INCHES W.C.)	0.48 / 1.5
MANUFACTURER / MODEL NO. (JCI)		XTI - 78x102
WEIGHT (LBS.)		9757
UNIT NOMINAL DIMENSIONS (INCHES) WIDTH x HEIGHT x LENGTH		102x78x272
NOTES		ALL

NOTES (AHU's):

1. ISP EQUALS AHU SP LOSS WITH DIRTY FILTERS. TSP EQUALS ESP + ISP. TSP LISTED IS FOR REFERENCE ONLY.
2. FAN MOTOR NAMEPLATE HP SHALL NOT BE EXCEEDED AT SCHEDULED CFM AND TSP
3. IF MANUFACTURER'S COOLING COIL PROMOTES MOISTURE CARRYOVER AT THE ALLOWABLE MAX FACE VELOCITY, THEY SHALL OVERSIZE THE COIL FACE AREA TO PREVENT MOISTURE CARRYOVER AT THESE CONDITIONS.
4. COILS SHALL NOT BE COATED UNLESS NOTED OTHERWISE.
5. COOLING COIL SENSIBLE HEAT RATIO (SHR) TOLERANCE EQUALS PLUS OR MINUS 0.3. EXAMPLE: CSHR = 0.79 MAX = 0.76 MIN=0.82
6. 5/8" OD TUBES
7. PROVIDE LED LIGHT FIXTURE IN EACH ACCESSIBLE SECTION. PROVIDE ONE TIMER SWITCH WITH PILOT LIGHT TO ENERGIZE ALL LIGHTS. FACTORY WIRE ALL FIXTURES AND SWITCHES TO EXTERNAL JUNCTION BOX FOR FIELD CONNECTION TO A 120V CIRCUIT
8. PRE-FILTERS SHALL BE SNAP-IN TYPE WITH SUPPORTS ON ALL FOUR SIDES. FILTER BANK SHALL BE FULL-SIZE.
9. HORIZONTAL DRAW-THRU
10. DOUBLE WALL CONSTRUCTION WITH THERMAL PERFORMANCE AS SPECIFIED.
11. INTERNALLY ISOLATED FAN, DRIVE, AND MOTOR.
12. PROVIDE VARIABLE FREQUENCY DRIVES FOR EACH SUPPLY FAN. VFDs TO BE SIZED FOR 50% OF THE FAN ARRAY'S AGREGATE FAN HORSEPOWER.
13. COIL CASINGS SHALL BE STAINLESS STEEL.
14. FINAL BALANCED CFM TO BE COORDINATED WITH T&B CONTRACTER AFTER CONSTRUCTION COMPLETION.
15. PROVIDE SEPARATE MINIMUM OUTSIDE AIR DAMPER.
16. SCCR: 5kA. SCCR RATING TO MEET OR EXCEED PANEL AIC RATING.
17. PROVIDE UV LIGHTS.
18. PROVIDE BLANK-OFF PLATE FOR FAN FLOW ISOLATION.
19. PROVIDE ACCESS DOORS WITH DOUBLE-PANE VIEWING WINDOWS IN ALL FAN ACCESS SECTIONS, HUMIDIFIER SECTIONS, AND UPSTREAM OF ALL FILTER SECTIONS.

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STATE OF MISSOURI
JONATHAN DECKERT
NUMBER PE-2012039309
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

SCHEDULES - MECHANICAL

M08-01

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4/22/2025 2:27:48 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/17/2025 9:17:15

AIR CURTAIN SCHEDULE

DESIGNATION	MANUFACTURER / MODEL	LOCATION / SERVICE	LENGTH (IN.)	TYPE	AIRFLOW (CFM)	ELECTRIC HEATER (kW)	MOTOR QTY. & (HP)	V / PH	WEIGHT	NOTES
ARC-1	MARS / PH1072-2EEN-PW	LEVEL 1 ED WAITING ROOM ENTRY VESTIBULE	72	RECESSED, BOTTOM INLET & OUTLET	2,434	24	2 @ 1/2 HP	208 / 3	120	ALL

NOTES:

1 PROVIDE THE FOLLOWING ACCESSORIES: 99-125 (INDUSTRIAL METAL SURFACE MOUNTED MAGNETIC SWITCH, 120V/1PH, NEMA 1), INS-TD (UNIT MOUNTED ADJUSTABLE TIME DELAY, 1 SEC TO 17 MIN, 24V CNTRL)
2 PROVIDE WASHABLE FILTERS
3 MULTIPLE FAN SPEEDS
4 PROVIDE SINGLE POINT ELECTRICAL CONNECTION
5 COORDINATE FINISH COLOR WITH ARCHITECT

PUMP SCHEDULE

MARK	SERVES	TYPE	GPM	TDH (FT)	MOTOR ELECTRICAL					WEIGHT (LBS)	MANUFACTURER / MODEL	NOTES
					HP	RPM	VOLT/PHASE	DRIVE	AVAILABLE FAULT (AIC)			
PHP-1	AHU-1	WET ROTOR CIRCULATOR	17.3	10	1 / 3	3600	120 / 1	HOA		14	ARMSTRONG / SERIES 4380	ALL

1. PUMP MOTOR SHALL BE NON-OVERLOADING THROUGHOUT THE FULL RANGE OF THE PUMP CURVE
2. DISCONNECT SWITCH FURNISHED BY DIVISION 26 CONTRACTOR.

* AIC RATING SHALL MEET OR EXCEED PANEL RATING

AIR DEVICE SCHEDULE

DESIG.	SIZE	OBD	FINISH	THROW	NECK SIZE	MAX NC LEVEL	MANUFACTURER/MODEL NO.	REMARKS/NOTES
S1	24"X24"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE / SPD	CEILING PLAQUE SUPPLY DIFFUSER
S2	12"X12"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE/SPD	CEILING PLAQUE SUPPLY DIFFUSER
S3	SEE PLANS	NO	WHITE	ADJ.	FULL SIZE	25	PRICE / 620Z	SIDEWALL SUPPLY GRILLE / 2
S4	24"X24"	NO	WHITE	ADJ. 4-WAY	10" Ø	25	PRICE / LFD	LAMINAR FLOW SUPPLY DIFFUSER
S5	24"X24"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE / ASPD	ALUMINUM CEILING PLAQUE SUPPLY DIFFUSER
R1	24"X24"	NO	WHITE	-	NOTE 1	25	PRICE / SPD	CEILING RETURN GRILLE
R2	24"X12"	NO	WHITE	-	NOTE 1	25	PRICE / 535	CEILING RETURN GRILLE
R3	SEE PLANS	NO	WHITE	-	FULL SIZE	25	PRICE / 610Z	SIDEWALL RETURN GRILLE
E1	24"X24"	NO	WHITE	-	NOTE 1	25	PRICE/SPD	CEILING EXHAUST GRILLE
E2	12"X12"	NO	WHITE	-	NOTE 1	25	PRICE/SPD	CEILING EXHAUST GRILLE
E3	24"X24"	NO	WHITE	ADJ. 4-WAY	NOTE 1	25	PRICE / ASPD	ALUMINUM CEILING EXHAUST GRILLE

GENERAL NOTES:

A. CONTRACTOR TO COORDINATE FRAME STYLE WITH ARCHITECTURAL PLANS. FRAME TYPE SHALL MATCH CEILING TYPE AND MODULE DIMENSIONS.

B. CONTRACTOR TO COORDINATE FINAL FINISHES WITH ARCHITECT. AIR DEVICES TO BE FACTORY PAINTED.

C. NECK SIZES SHALL BE AS SCHEDULED UNLESS NOTED OTHERWISE ON PLANS.

D. DUCT MOUNTED AIR DEVICES SHALL BE FLANGE MOUNTED. NO MOUNTING SCREWS SHALL BE VISIBLE EXCEPT ON EXPOSED DUCTWORK.

NOTES:

1. 6"Ø 0-100 CFM
   8"Ø 101-225 CFM
   10"Ø 226-400 CFM
   12"Ø 401-600 CFM
   14"Ø 601-900 CFM
   15"x15" 901-1000 CFM
2. GRILLE SHALL BE DOUBLE DEFLECTION TYPE WITH TWO SETS OF ADJUSTABLE BLADES ORIENTED PERPENDICULAR TO EACH OTHER.

SPLIT SYSTEM A/C UNIT SCHEDULE

DESIGNATION		AC-1
LOCATION		LEVEL 01
SERVICE		IT
INDOOR UNIT DATA	SUPPLY CFM	1095
	EXT. S.P. (*WG)	-
	VOLTS / PH	208 / 1
	MCA	-
	MOCP	-
	DIMENSIONS (WxHxD) (IN)	47 1/4"X14 23/32"X10 7/16"
	WEIGHT (LBS)	41
COOLING DATA	EAT °F DB/WB	80 / 67
	SENS. HEAT (BTUH)	34,000
	TOTAL HEAT (BTUH)	34,000
CONDENSING UNIT DESIGNATION		ACCU-1
CU DATA	VOLTS / PH	208 / 1
	MCA	23
	MOCP	30
	DIMENSIONS (WxHxD) (IN)	37 13/32"X32 3/4"X13"
	WEIGHT (LBS)	148
SCCR (AMPS)		*
MANUFACTURER		LG
INDOOR FAN COIL MODEL NO.		KNSAP361A
CONDENSING UNIT MODEL NO.		KUSAP361A

NOTES:

1. CAPACITY AT 105°F O.A.T.
2. 20 MINIMUM SEER2 RATING. 10.0 MINIMUM EER2 RATING.
3. CONTRACTOR SHALL PROVIDE AND INSTALL FACTORY POWERED CONTROLS AND CONTROL TRANSFORMER
4. PROVIDE ELECTRONIC ALTERNATOR AND FLOAT SWITCHES.
5. FACTORY WIRED SINGLE POINT CONNECTION
6. ELECTRICAL CONTRACTOR TO CONNECT EXTERIOR UNIT TO INTERIOR UNIT.
7. R-32 REFRIGERANT.
8. PROVIDE SEPARATELY POWERED REFCO COMBI CONDENSATE PUMP AT 120V. PART #3004046. *SCCR RATING TO MEET OR EXCEED PANEL AIC RATING

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DATE:	04/18/25
SCALE:	12" = 1'-0"
DRAWN:	HO
REVIEWED:	JD
JOB NUMBER:	US0040241.3707

SCHEDULES - MECHANICAL

M08-02

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:15

A. SUPPLEMENTAL GENERAL CONDITIONS

1. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE WITH ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
2. SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS ARE SHOWN ON THE DRAWINGS. SHOULD THERE BE ANY DOUBT REGARDING THE MEANING OR INTENT OF THE SYMBOLS USED, AN INTERPRETATION SHALL BE OBTAINED FROM THE ARCHITECT IN WRITING. THE DECISION OF THE ARCHITECT SHALL BE FINAL.
3. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING THEIR BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK; OTHERWISE, THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN THEIR WORK OR THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANCY.
4. WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
5. THE SCALE OF EACH DRAWING IS RELATIVELY ACCURATE; ANY DIMENSIONS SHOWN ARE APPROXIMATE TO CENTERLINE FROM ASSUMED BUILDING PERIMETER. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DIMENSIONS FOR ANY EXACT TAKEOFFS FROM THE ARCHITECT. NO ADDITIONAL COST TO THE OWNER WILL BE CONSIDERED FOR FAILURE TO OBTAIN EXACT DIMENSIONS WHERE NOT CLEAR OR IN ERROR ON THE DRAWINGS. ANY DEVICE OR FIXTURE ROUGHED IN IMPROPERLY AND NOT POSITIONED ON IMPLIED CENTER-LINES OR AS REQUIRED BY GOOD PRACTICE MUST BE REPOSITIONED AT NO COST TO THE OWNER.
6. THE CONTRACTOR IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS AND CERTIFICATES OF INSPECTION. THE CONTRACTOR SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER INCLUDING COPIES WITH MAINTENANCE MANUALS.
7. ONLY EXPERIENCED CRAFTSMEN KNOWLEDGEABLE IN THEIR RESPECTIVE TRADE SHALL PERFORM THE WORK DESCRIBED IN THE CONSTRUCTION DOCUMENTS.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA STANDARD 70 (NATIONAL ELECTRICAL CODE). CONTRACTOR SHALL ALSO CONFORM TO ALL APPLICABLE LOCAL CODES AND AMENDMENTS.
9. UNLESS OTHERWISE INDICATED, ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS. THEY SHALL ALSO BE LISTED/LABELED BY A NATIONALLY RECOGNIZED LABORATORY IN ACCORDANCE WITH NFPA 70. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND WITHIN THEIR LISTING/LABELING REQUIREMENTS AND RESTRICTIONS.
10. PROVIDE SHOP DRAWINGS FOR ENGINEER'S REVIEW FOR ALL ELECTRICAL EQUIPMENT, DEVICES, AND MATERIALS PROPOSED TO BE PROVIDED UNDER THIS CONTRACT. ANY DEVIATIONS FROM ITEMS SPECIFIED SHALL BE CLEARLY IDENTIFIED AND SEPARATELY SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST. REFER TO SPECIFICATIONS (PROJECT MANUAL) FOR REQUIREMENTS.

B. ELECTRICAL EQUIPMENT

1. PROVIDE AN IDENTIFICATION NAMEPLATE FOR EACH ELECTRICAL EQUIPMENT, APPURTENANCE DEPICTING THE DESIGNATION INDICATED ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. WEATHERPROOF ENCLOSURES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT, DEVICES AND APPURTENANCES (ALL SYSTEMS) INSTALLED OUTDOORS.
3. COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH OWNER. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
4. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OR EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
5. DO NOT USE PERMANENT INK WHEN MAKING FIELD MARKINGS OR TEMPORARY CIRCUIT LABELS ON PANELS. CONTRACTOR SHALL USE REMOVABLE TAPE/TAGS FOR ALL TEMPORARY MARKINGS AND SHALL REMOVE THESE TEMPORARY MARKINGS AT THE CONCLUSION OF THIS PROJECT.

C. SITE WORK

1. COORDINATE WITH THE SITE WORK FOR THE LOCATION, DIMENSIONS AND ELEVATION OF ALL DUCTBANKS/SERVICE CONDUITS EXTERNAL TO THE BUILDING PRIOR TO INSTALLATION OF ALL DUCTBANKS/SERVICE CONDUITS INTERNAL TO THE BUILDING.
2. COORDINATE ALL ELECTRICAL UTILITY SERVICE REQUIREMENTS WITH UTILITIES REPRESENTATIVE PRIOR TO COMMENCING ANY ELECTRICAL SITE WORK. CONTRACTOR SHALL SCHEDULE ALL NECESSARY MEETINGS BETWEEN UTILITY COMPANIES CONSTRUCTION FOREMAN, ELECTRICAL SUBCONTRACTORS, AND VARIOUS SUBCONTRACTORS RESPONSIBLE FOR SITE CONSTRUCTION PRIOR TO ELECTRICAL ROUGH-IN.

D. CONDUIT & RACEWAY

1. ALL WORK SHALL BE COORDINATED SO THAT INTERFERENCES ARE AVOIDED. PROVIDE ALL NECESSARY OFFSETS IN CONDUITS, RACEWAYS, ETC., REQUIRED TO PROPERLY INSTALL THE WORK. EXPOSED WORK MUST BE KEPT AS CLOSE AS POSSIBLE TO WALLS, CEILINGS, COLUMNS, ETC., SO AS TO TAKE UP MINIMUM AMOUNT OF SPACE. ALL OFFSETS, FITTINGS, ETC., REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WORK SHALL BE COORDINATED WITH OTHER TRADES.
2. CONDUIT RUNS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NFPA 70 AND FOR COORDINATION WITH OTHER DISCIPLINES.
3. PENETRATIONS OF WALLS, FLOORS, AND ROOFS FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF WORK. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAY SO AS TO MAINTAIN THE STRUCTURAL, WATER PROOF, AND FIRE PROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.
4. SEAL ALL CONDUITS THAT PENETRATE THE BASEMENT FLOOR SLAB TO MAKE THEM WATER TIGHT. THE CONDUITS SHALL BE DRIED PRIOR TO INSTALLATION OF WIRE/CABLE AND SHALL BE SEALED AT TERMINATIONS.
5. ALL PENETRATIONS THROUGH FIRE RATED WALLS OR PARTITIONS SHALL BE MADE IN ACCORDANCE WITH U.L. "FIRE RESISTANCE DIRECTORY". PENETRATIONS SHALL BE SLEEVED AND SEALED WITH A UL APPROVED FIRE RATED SEALANT. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
6. ALL EMPTY CONDUIT SYSTEMS SHALL CONTAIN A PULL WIRE FOR FUTURE PULLING OF CONDUCTORS.

E. BRANCH CIRCUITS AND FEEDERS

1. CIRCUITING IS SHOWN DIAGRAMMATICALLY. HOMERUNS SHALL BE COMBINED WHERE POSSIBLE IN ACCORDING TO NFPA 70.
2. UNLESS OTHERWISE INDICATED, ALL CIRCUITS 100' OR LESS SHALL BE MINIMUM #12 AWG WIRE SIZE. CIRCUITS OVER 100' BUT LESS THAN 200' SHALL BE MINIMUM #10 AWG WIRE SIZE. CIRCUITS OVER 200' BUT LESS THAN 300' SHALL BE MINIMUM #8 AWG WIRE SIZE.
3. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE COPPER, 98% CONDUCTIVITY CONTINUOUS FROM OUTLET TO OUTLET.
4. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZES #12 AWG AND #10 AWG SHALL BE SOLID. CONDUCTOR SIZES #8 AWG AND LARGER MAY BE STRANDED.
5. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS FOR GROUNDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY, OR A CABLE ARMOR OR SHEATH SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING CONDUCTOR.
6. HOMERUN CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL BE SEPARATED FROM OTHER CIRCUITS. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.

F. WIRING DEVICES

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION AND MOUNTING HEIGHT OF ALL WALL AND FLOOR MOUNTED ELEMENTS (OUTLETS, LIGHT SWITCHES, CONTROLLERS, POKE-THRU, ETC). ALL WALL/FLOOR MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL WALL/FLOOR TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
3. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
4. VERIFY THE EXACT POWER CONNECTION TYPE AND NEMA CONFIGURATION OF RECEPTACLES FOR EQUIPMENT FURNISHED BY THE OWNER, OTHER TRADES, OR UNDER A SEPARATE SECTION OF THIS CONTRACT PRIOR TO ELECTRICAL ROUGH-IN.
5. ALL RECEPTACLES LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOUSED IN ENCLOSURES THAT ARE RATED 'WEATHER-PROOF-WHILE-IN-USE' AND SHALL BE EQUIPPED WITH GFCI FOR PERSONNEL PROTECTION.
6. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.

G. LIGHTING SYSTEM

1. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOCATION OF ALL CEILING ELEMENTS (LIGHTS, SPRINKLERS, DIFFUSERS, ETC). ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DIMENSIONED DRAWINGS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS. DO NOT SCALE OR DIMENSION LOCATIONS FROM THESE DRAWINGS.
2. PROVIDE AND INSTALL ALL SUPPORTS FOR LIGHT FIXTURES. SUPPORTS SHALL BE INDEPENDENT OF THE CEILING GRID SUPPORT SYSTEM.
3. LIGHT SWITCHES / OCCUPANCY SENSORS LOCATED IN A ROOM SHALL CONTROL ALL THE LIGHT FIXTURES IN THAT ROOM UNLESS NOTED OTHERWISE. CONTRACTOR SHALL GANG TOGETHER ALL SWITCHES/DIMMERS UNDER A SINGLE COVER PLATE IN ALL AREAS THAT REQUIRE MORE THAN ONE SWITCH TO CONTROL ELECTRICAL DEVICES.
4. IN INSTANCES WHERE A TRACK LIGHTING SYSTEM, DIMMING SYSTEM, AND/OR LIGHTING CONTROL SYSTEM IS SPECIFIED, THE CONTRACTOR SHALL COORDINATE ALL NECESSARY COMPONENTS OF SUCH SYSTEM(S) WITH THE MANUFACTURER PRIOR TO BID AND INCLUDE ALL NECESSARY ACCESSORIES TO INSTALL A COMPLETE AND FUNCTIONING SYSTEM.

H. MECHANICAL & PLUMBING COORDINATION

1. REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT.
2. VERIFY EXACT LOCATION OF ALL POWER CONNECTIONS AND CONTROL DEVICES WITH OTHER TRADES AND MANUFACTURERS SHOP DRAWINGS BEFORE CONSTRUCTION. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS.
3. ALL FUSED SWITCH AND/OR CIRCUIT BREAKERS SERVING EQUIPMENT SHALL HAVE PROVISIONS FOR HANDLE LOCKS.
4. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BEAR AN 'HACR' RATING.
5. ALL DISCONNECTS DOWN STREAM OF VFDs SHALL BE PROVIDED WITH AUXILIARY CONTACTS TO SHUT DOWN UPSTREAM VFD WHEN SWITCH IS OPENED.
6. COORDINATE BETWEEN TRADES AND PROVIDE CONTROL POWER FOR ALL VAV BOXES/DAMPERS/ETC, AS REQUIRED TO ENSURE A COMPLETE, FULLY FUNCTIONAL HVAC SYSTEM. SHOULD AN EXACT CIRCUIT NUMBER NOT BE INDICATED ON ELECTRICAL DRAWINGS, CONTRACTOR SHALL UTILIZE AVAILABLE 20A/1P SPACE FROM THE NEAREST 208V/120V PANEL OR FROM BUILDING CONTROL POWER DISTRIBUTION SYSTEM.

I. SPECIAL SYSTEMS (i.e. DATA/PHONE/SECUITY/CATV)

1. CONTRACTOR SHALL PROVIDE AND INSTALL AN EMPTY CONDUIT RACEWAY SYSTEM FOR SPECIAL SYSTEM. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN VENDOR SHOP DRAWINGS FROM THE VENDOR/INSTALL PRIOR TO ELECTRICAL ROUGH-IN. CONTRACTOR SHALL COORDINATE, PROVIDE AND INSTALL ALL REQUIRED RACEWAYS AND DEVICE BACK BOXES AS REQUIRED BY VENDOR SHOP DRAWINGS. CONTRACTOR TO PROVIDE A LINE ITEM ALLOWANCE IN BID AS NECESSARY TO COVER THIS SCOPE. REFER TO T SERIES AND AV SERIES DRAWINGS FOR ADDITIONAL REQUIREMENTS.

J. DEMO GENERAL NOTES

1. PROVIDE UPDATED, TYPE WRITTEN DIRECTORY OF ALL CORRECT CIRCUITS WITH LOAD DEFINITIONS FOR EACH PANEL BOARD. DIRECTORY SHALL BE LOCATED INSIDE PANEL DOOR.
2. INFORMATION PROVIDED ON THESE DRAWINGS HAVE BEEN TAKEN FROM DESIGN DRAWING AND FIELD OBSERVATIONS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.
3. WHERE EXISTING WALLS ARE DEMOLISHED, REMOVE ALL EXISTING ELECTRICAL DEVICES AND THEIR ASSOCIATED CONDUITS AND WIRING BACK TO THE POINT OF ORIGINATION. ENERGIZE ALL EXISTING DEVICES THAT WERE INTERRUPTED DURING DEMOLITION. WHERE ENTIRE CIRCUITS ARE REMOVED, TURN THE CIRCUIT BREAKER OFF AND LABEL AS "SPARE".
4. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL WORK.
5. IF DEMOLITION IS REQUIRED TO INSTALL AN ITEM, THE CONTRACTOR SHALL RESTORE THE AREA TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING.
6. DESIGNATION 'EX' REPRESENTS EXISTING DEVICE OR LIGHT FIXTURE TO REMAIN AS CIRCUITED AND SWITCHED UNLESS NOTED OTHERWISE. EXISTING LIGHT FIXTURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
7. A DEVICE WITH AN 'X' INDICATES EXISTING DEVICE TO BE REMOVED INCLUDING ALL ASSOCIATED CONDUIT AND WIRING.
8. A DEVICE WITH AN 'R' INDICATES EXISTING DEVICE TO BE RELOCATED INCLUDING ALL ASSOCIATED CONDUIT AND WIRING.
9. CONTRACTOR SHALL REMOVE ALL CONDUIT AND WIRING ASSOCIATED WITH DEVICES AND EQUIPMENT TO BE REMOVED AND/OR RELOCATED UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL ALL NECESSARY DEVICES, EQUIPMENT AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE TO ALL "EXISTING TO REMAIN" DEVICES AND EQUIPMENT THAT MAY BE INTERRUPTED DURING DEMOLITION.
10. WHERE EXISTING MECHANICAL/PLUMBING EQUIPMENT IS DEMOLISHED, REMOVE ALL RELATED ELECTRICAL FEEDS TO THAT EQUIPMENT AND THEIR ASSOCIATED CONDUITS BACK TO THE POINT OF ORIGINATION.
11. REFER TO ARCHITECTURAL PLANS FOR AREAS WHERE CEILING IS DEMOLISHED. REMOVE ALL LIGHTING FIXTURES AND ASSOCIATED CONDUIT AND WIRING FROM THESE LOCATIONS.
12. ALL RECEPTACLES WITHIN THE PROJECT SCOPE SHALL BE HOSPITAL GRADE TYPE. IF A DEVICE IS INDICATED AS EXISTING TO REMAIN AND IS NOT A HOSPITAL GRADE RECEPTACLE, REPLACE THE EXISTING DEVICE WITH A HOSPITAL GRADE RECEPTACLE AND RECONNECT TO EXISTING CIRCUIT.
13. ALL LIGHTING FIXTURES DEMOLISHED UNDER THESE DRAWINGS SHALL BE RETURNED TO THE OWNER.

FIRE ALARM SYSTEM

FIRE ALARM SYSTEMS IS A DELGATED DESIGN. THESE DRAWINGS ARE INTENDED TO SHOW GENERAL GUIDELINES FOR THE PLACEMENT OF FIRE ALARM DEVICES AS THEY RELATE TO OTHER (NON-FIRE ALARM) SYSTEMS AND FOR PERMITTING PURPOSES. THE FINAL FIRE ALARM PLANS TO BE SUBMITTED FOR AHJ APPROVAL SHALL BE PRODUCED AND SEALED BY A NICET LEVEL III CERTIFIED DESIGNER; REFER TO THE SPECIFICATIONS (PROJECT MANUAL) FOR FURTHER REQUIREMENTS. THE DESIGNER SHALL PROVIDE ALL DEVICES SHOWN ON THESE DRAWINGS AND ANY ADDITIONAL DEVICES OR COMPONENTS REQUIRED FOR A COMPLETE SYSTEM. IF OTHER DEVICES ARE ANTICIPATED TO BE REQUIRED FOR SYSTEM FUNCTIONALITY, COMPLIANCE WITH NATIONAL AND LOCAL CODES OR APPROVAL OF THE AHJ, THE CONTRACTOR SHALL QUALIFY THEIR BID AND SHALL PROVIDE AN ADD ALTERNATE PRICE MAKING NOTE OF THE SPECIFIC ANTICIPATED ADDITIONAL REQUIREMENTS.

BUILDING CODE:	2018 IBC
FIRE CODE:	2018 IFC
ELECTRICAL CODE:	2017 NFPA 70 (NEC)
BUILDING CONSTRUCTION TYPE:	TYPE 1A - FULLY SPRINKLERED TYPE II
OCCUPANCY:	

PROJECT DESIGN CRITERIA

LOCATION:	
CITY/STATE	LEE'S SUMMIT, MO
APPLICABLE CODES:	
BUILDING	2018 INTERNATIONAL BUILDING CODE
MECHANICAL	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING	2018 INTERNATIONAL PLUMBING CODE
FIRE	2018 INTERNATIONAL FIRE CODE
ELECTRICAL	2017 NATIONAL ELECTRICAL CODE
LATITUDE:	38.9108° DEGREES NORTH
ELEVATION: FT. ABOVE SEA LEVEL	738 FT

ELECTRICAL ABBREVIATIONS

AFC	ABOVE FINISHED COUNTER	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AHJ	AUTHORITY HAVING JURISDICTION	MTD	MOUNT OR MOUNTED
ATS	AUTOMATIC TRANSFER SWITCH	MW	MICROWAVE
BFC	BELOW FINISHED CEILING	N	NEW DEVICE
BOF	BOTTOM OF FIXTURE	NC (N.C.)	NORMALLY CLOSED
C	CONDUIT	NEC	NATIONAL ELECTRIC CODE
CB,C/B OR CKT BKR	CIRCUIT BREAKER	NF	NONFUSED
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CCTV	CLOSED CIRCUIT T.V.	NL	NIGHT LIGHT
CLG	CEILING	NO (N.O.)	NORMALLY OPEN
CR	CRITICAL (EMERGENCY SYSTEM)	PB	PULL BOX
CUH	CABINET HEATER	PLGMLD	PLUGMOLD
EC	EMPTY CONDUIT	PNL	PANEL
ELEC	ELECTRIC	PWR	POWER
E	EMERGENCY	R	RELOCATED DEVICE
EMS	ENERGY MANAGEMENT SYSTEM	RCPT(S) OR	RECEPTACLE(S)
EP	EXPLOSION PROOF	RECEPT	
EWC	ELECTRIC WATER COOLER	REF	REFRIGERATOR
EX	EXISTING	RF	RETURN AIR FAN
F	FUSE	SEF	SMOKE EXHAUST FAN
FA	FIRE ALARM	SF	SUPPLY AIR FAN
FACP, FAP	FIRE ALARM CONTROL PANEL	SO (S.O.)	SPACE ONLY
FCU	FAN COIL UNIT	SP	SPARE
FIXT	FIXTURE	ST (S.T.)	SHUNT TRIP
FLR	FLOOR	SW	SWITCH
FLUOR	FLUORESCENT	TEL	TELEPHONE
FTP, FTS OR	FAN TERMINAL UNIT	TF	TRANSFER FAN
FTU		TP	TAMPER PROOF
FUT	FUTURE	TV	TELEVISION
G, GND	GROUND (EQUIPMENT)	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GEF	GENERAL EXHAUST FAN	UF	UDERFLOOR
GEN	GENERATOR	UG	UNDERGROUND
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER	UH	UNIT HEATER
HP	HORSE POWER	UNO (U.N.O.)	UNLESS NOTED OR INDICATED OTHERWISE
HV	HIGH VOLTAGE	V	VOLTAGE
HWAT	HEAT TRACE	VFD	VARIABLE FREQUENCY DRIVE
IC	INTERRUPTING CAPACITY	VP	VAPOR PROOF
ICAND	INCANDESCENT	VV	VARIABLE VOLUME UNIT
IG	ISOLATED GROUND	W	WIRE
IGF	GROUND FAULT INDICATION ONLY	WI	WITH
JB	JUNCTION BOX	WG	WIRE GUARD
KEF	KITCHEN EXHAUST FAN	WP	WEATHER PROOF
LTG	LIGHTING	WT	WATER TIGHT
LTS	LIGHTS	XFMR	TRANSFORMER MOUNTING
LV	LOW VOLTAGE	•xx	HEIGHT IN INCHES. AFF UNO.
MATV	MASTER ANTENNA	UCR	UNCER CABINET REFRIGERATOR
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		
MDP	MAIN DISTRIBUTION PANEL		

FIRE ALARM SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO
F	FIRE ALARM PULL STATION WALL MOUNTED	48" AFF
FA X	FIRE ALARM AUDIBLE VISUAL SIGNAL WALL MOUNTED (X: H=HORN, S=SPEAKER)	80" AFF
FA X	FIRE ALARM AUDIBLE SIGNAL WALL MOUNTED (X: H=HORN, S=SPEAKER)	80" AFF
FA	FIRE ALARM VISUAL SIGNAL WALL MOUNTED	80" AFF
FA CLG X	FIRE ALARM AUDIBLE VISUAL SIGNAL CEILING MOUNTED (X: H=HORN, S=SPEAKER)	--
FA CLG X	FIRE ALARM AUDIBLE SIGNAL CEILING MOUNTED (X: H=HORN, S=SPEAKER)	--
FA CLG	FIRE ALARM VISUAL SIGNAL CEILING MOUNTED	--
FS	FIRE ALARM SPRINKLER FLOW SWITCH	--
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	--
PS	FIRE ALARM SPRINKLER PRESSURE SWITCH	--
	SMOKE DETECTOR WALL MOUNTED	9" BFC
	SMOKE DETECTOR CEILING MOUNTED	--
P	PATIENT ROOM SMOKE DETECTOR	--
	DUCT SMOKE DETECTOR	--
FSD	FIRE AND SMOKE DAMPER	
	HEAT DETECTOR WALL MOUNTED	9" BFC
	HEAT DETECTOR CEILING MOUNTED	--
DH	ELECTRO-MAGNETIC DOOR HOLDER	AS REQUIRED
M	ELECTRO-MAGNETIC SMOKE DOOR HOLDER (INTERFACED WITH FIRE ALARM SYSTEM. DC POWER PROVIDED BY FIRE ALARM WIRING	AS REQUIRED
	FIRE ALARM BELL	108" AFF
FACP	FIRE ALARM CONTROL PANEL	__" AFF
FAAP	FIRE ALARM ANNUNCIATOR PANEL	__" AFF
FPAP	FIRE PUMP ANNUNCIATOR PANEL	__" AFF
FCP	FIREFIGHTER'S CONTROL PANEL	__" AFF
NAC	NOTIFICATION APPLIANCE CIRCUIT FOUR CIRCUIT FIRE ALARM INDICATING CIRCUIT POWER EXTENDER	__" AFF
FP	TELEPHONE JACK FOR FIREMAN'S PHONE (BY FIRE ALARM CONTRACTOR)	48" AFF
FPH	WARDEN STATION TELEPHONE FOR FIREMAN'S PERMANENT HANDSET (BY FIRE ALARM CONTRACTOR)	48" AFF

ONE-LINE DIAGRAM & RISER SYMBOLS LEGEND

	AUTOMATIC / MANUAL TRANSFER SWITCH - PROGRAMMED OR DELAYED TRANSITION		AUTOMATIC / MANUAL TRANSFER SWITCH - BYPASS ISOLATION
XX/XXX	DISCONNECT AMPS / FUSE / POLES	AAAA BBBB	FEEDER TAG. REFER TO FEEDER SCHEDULE FOR NUMBER AND SIZE OF CONDUCTORS AND CONDUIT. A-ALUMINUM C-COPPER
XX	MOTOR XX = HORSE POWER		GROUNDING ELECTRODE
XXX	BRANCH PANEL XXX = PANEL NAME	T-XXX XXkVA	TRANSFORMER
AT	BOLT ON CIRCUIT BREAKER AT = TRIP RATING	AF AT	DRAW OUT CIRCUIT BREAKER AT = TRIP RATING AF = FRAME SIZE

LSIG ELECTRONIC TRIP FUNCTIONS
L = LONG TIME SETTING
S = SHORT TIME SETTING
I = INSTANTANEOUS SETTING
G = GROUND FAULT SETTING
A = INDICATION GROUND FAULT (GROUND FAULT ALARM ONLY)

LIGHTING CONTROLS SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
#	# IN DIAMOND REFERS TO LIGHTING CONTROLS REQUIREMENTS AND SEQUENCE OF OPERATIONS SCHEDULE.	
$	WALL SWITCH SPST, 20A, 120/277V	48" AFF
$3	3-WAY WALL SWITCH, 20A, 120/277V	48" AFF
$D	WALL DIMMER SWITCH, 20A, 120/277V	48" AFF
$3D	3-WAY WALL DIMMER SWITCH, 20A, 120/277V	48" AFF
$O	OCCUPANCY SENSOR WALL SWITCH, 20A, 120/277V, AUTO 'ON' TO 100%, AUTO 'OFF'	48" AFF
$OSBLD	BI-LEVEL OCCUPANCY SENSOR DIMMING WALL SWITCH, 20A, 120/277V, AUTO 'ON' TO 50%, MANUAL 'ON' TO 100%, AUTO 'OFF', WITH RAISE/LOWER	48" AFF
1	1 ZONE, LOW VOLTAGE SWITCH, ON/OFF	48" AFF
1D	1 ZONE, LOW VOLTAGE DIMMING SWITCH, ON/OFF WITH RAISE/LOWER BUTTONS	48" AFF
2	2 ZONE, LOW VOLTAGE SWITCH, SEPARATE ON/OFF BUTTONS FOR EACH ZONE	48" AFF
2D	2 ZONE, LOW VOLTAGE DIMMING SWITCH, ON/OFF WITH RAISE/LOWER BUTTONS, SEPARATE BUTTONS PROVIDED FOR EACH ZONE	48" AFF

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL MOUNTING HEIGHTS. WHERE MOUNTING HEIGHT IS NOT INDICATED BY ARCHITECT, PROVIDE AT 48" AFF.
2. ANY SINGLE LOW VOLTAGE WALL STATION CONTROLLING BOTH A NORMAL LIGHTING CIRCUIT AND EMERGENCY LIGHTING CIRCUIT SHALL BE PROVIDED WITH DIFFERENT COLOR BUTTONS (NORMAL - WHITE, EMERGENCY -RED). REFER TO SPEC

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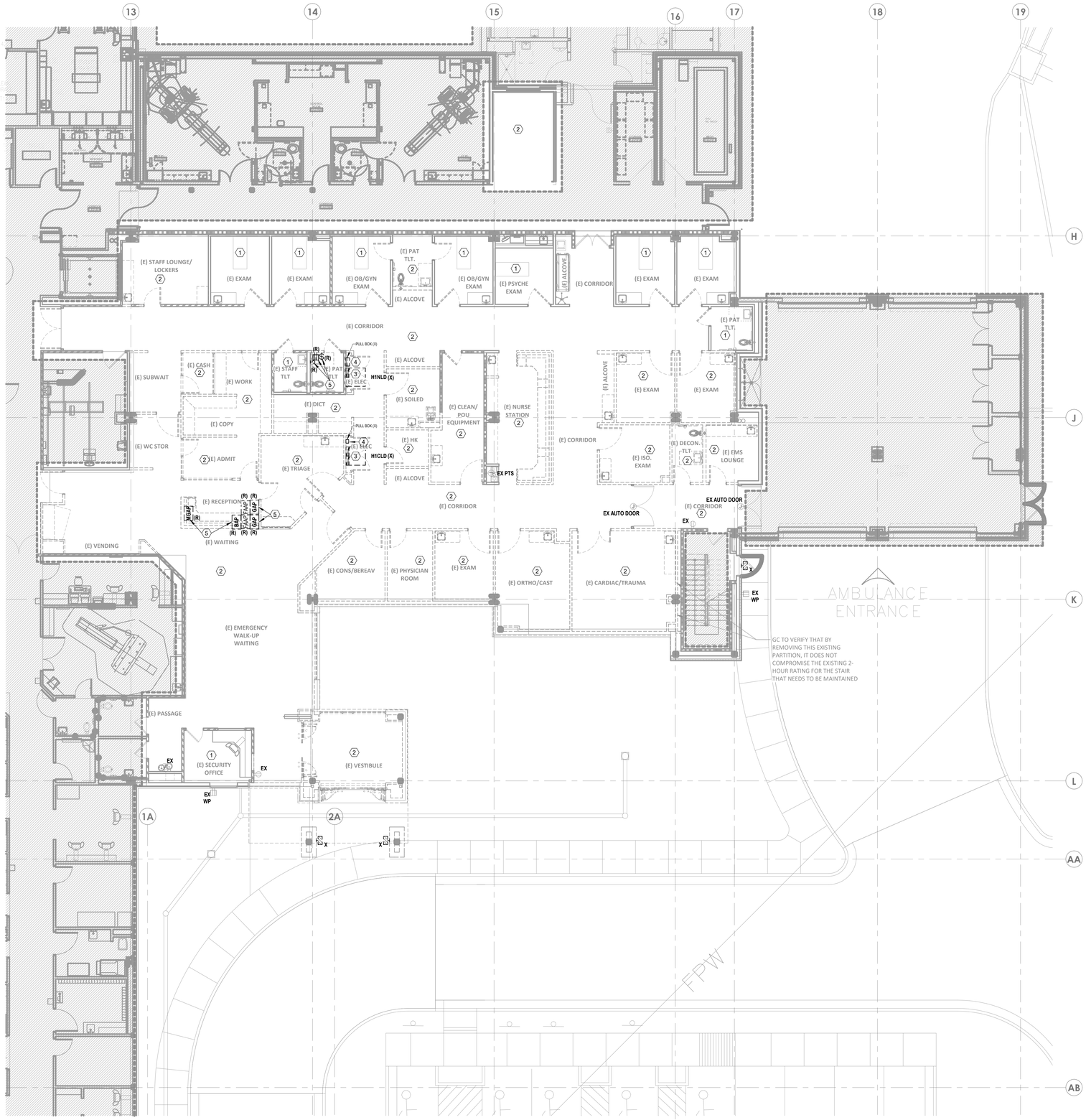

1 DEMOLITION PLAN - LEVEL 01 - POWER
1/8" = 1'-0"

GENERAL DEMO NOTES

A. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR DEMOLITION REQUIREMENTS
B. REFER TO E00-00 FOR ADDITIONAL DEMOLITION NOTES.
C. WHERE WALLS ARE BEING DEMOLISHED DOWN TO STUDS, REMOVE ALL ELECTRICAL DEVICES AND ASSOCIATED CONDUIT AND CONDUCTORS CONTAINED THEREIN UNLESS NOTED OTHERWISE.
D. WHERE ENTIRE CIRCUIT IS REMOVED, CIRCUIT SHALL BE DEMOLISHED BACK TO POINT OF ORIGINATION. TURN THE CIRCUIT BREAKER OFF AND LABEL AS "SPARE".
E. ENERGIZE ALL EXISTING DEVICES THAT WERE INTERRUPTED DURING DEMOLITION.
F. WHERE REMOVAL OF DEVICES AND ASSOCIATED CONDUIT AND CONDUCTORS EFFECTS OTHER DEVICES, RECONNECT OR PROVIDE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO ASSURE THAT DEVICES IN ADJACENT AREAS AFFECTED BY THE RENOVATION REMAIN COMPLETELY OPERATIONAL.

LEGEND NOTES

1 ALL EXISTING ELECTRICAL CONDUIT, CONDUCTORS, AND DEVICES SERVING THIS SPACE ARE TO REMAIN UNLESS NOTED OTHERWISE.
2 EXISTING POWER DEVICES, FIRE ALARM DEVICES, AND LIGHTING FIXTURES IN THIS ROOM/AREA TO BE DEMOLISHED, UNLESS NOTED OTHERWISE
3 EXISTING PANELBOARD TO BE DEMOLISHED. REMOVE UNDERGROUND CONDUCTORS, CUT, AND CAP CONDUIT FOR ABANDON IN PLACE. RUN NEW CONDUIT AND CONDUCTORS FOR FEEDERS ABOVE CEILING TO NEW PANEL LOCATION. EXISTING TO REMAIN BRANCH CIRCUITS TO BE INTERCEPTED ABOVE CEILING. EXTEND AND RECONNECT CONDUIT AND CONDUCTORS TO NEW PANEL LOCATION.
4 FIELD INVESTIGATE AND TRACE CONDUCTORS. REMOVE UNDERGROUND CONDUCTORS, CUT, AND CAP CONDUIT FOR ABANDON IN PLACE. RUN NEW CONDUIT AND CONDUCTORS FOR FEEDERS ABOVE CEILING TO NEW PANEL LOCATION. EXISTING TO REMAIN BRANCH CIRCUITS TO BE INTERCEPTED ABOVE CEILING. EXTEND AND RECONNECT CONDUIT AND CONDUCTORS TO NEW PANEL LOCATION.
5 RELOCATE EXISTING DEVICES. REFER TO E02-01 AND E03-01 FOR NEW LOCATION.

LEVEL 1 - KEYPLAN

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ARIZONA CERTIFICATION
WENDY SUSAN WHEELER
NUMBER
PR-2017060128
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/16/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DEMOLITION PLAN - LEVEL 01 - POWER

ED02-01

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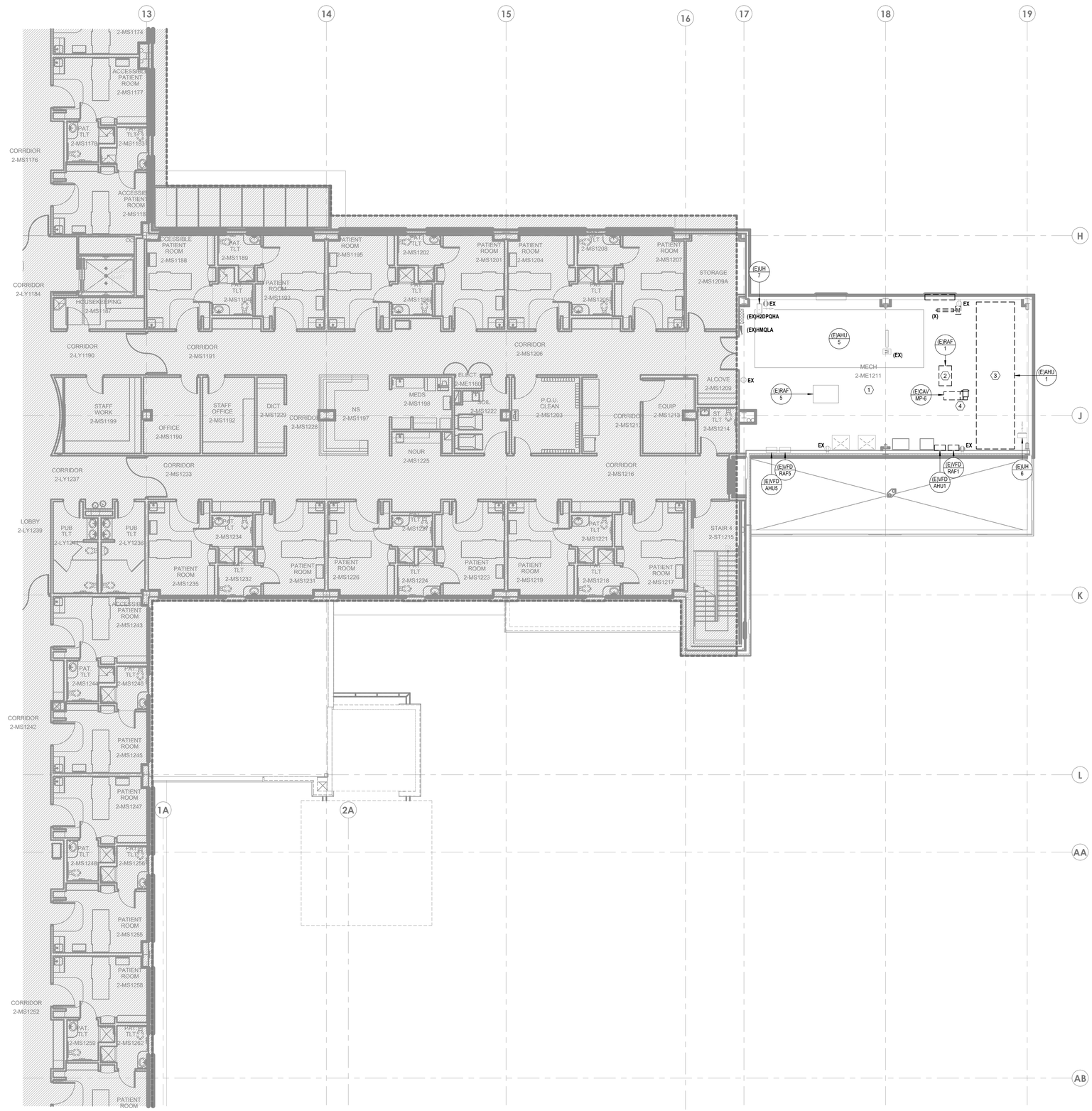
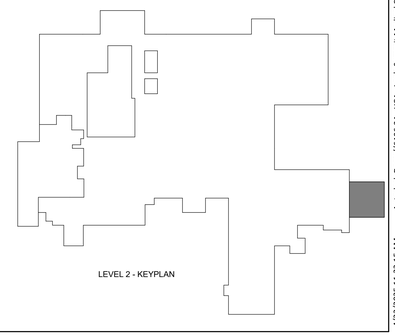


1 DEMOLITION PLAN - LEVEL 02 - POWER
1/8" = 1'-0"



LEVEL 2 - KEYPLAN

GENERAL DEMO NOTES

A. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR DEMOLITION REQUIREMENTS
B. REFER TO E00-00 FOR ADDITIONAL DEMOLITION NOTES.
C. WHERE WALLS ARE BEING DEMOLISHED DOWN TO STUDS, REMOVE ALL ELECTRICAL DEVICES AND ASSOCIATED CONDUIT AND CONDUCTORS CONTAINED THEREIN UNLESS NOTED OTHERWISE.
D. WHERE ENTIRE CIRCUIT IS REMOVED, CIRCUIT SHALL BE DEMOLISHED BACK TO POINT OF ORIGINATION. TURN THE CIRCUIT BREAKER OFF AND LABEL AS "SPARE".
E. ENERGIZE ALL EXISTING DEVICES THAT WERE INTERRUPTED DURING DEMOLITION.
F. WHERE REMOVAL OF DEVICES AND ASSOCIATED CONDUIT AND CONDUCTORS EFFECTS OTHER DEVICES, RECONNECT OR PROVIDE NEW CONDUIT AND CONDUCTORS AS REQUIRED TO ASSURE THAT DEVICES IN ADJACENT AREAS AFFECTED BY THE RENOVATION REMAIN COMPLETELY OPERATIONAL.

LEGEND NOTES

1 ALL EXISTING ELECTRICAL CONDUIT, CONDUCTORS, AND DEVICES SERVING THIS SPACE ARE TO REMAIN UNLESS NOTED OTHERWISE.
2 EXISTING RETURN FAN IS BEING REMOVED IN DEMOLITION SCOPE; ALL ASSOCIATED EXISTING STARTER(S), DISCONNECT(S), AND ALL WIRING(CONDUCTORS, RACEWAYS, AND SUPPORTS) TO BE REMOVED BACK TO THE SOURCE. DISCONNECT THE CONDUCTORS FROM THE CIRCUIT BREAKER AND LABEL AS A SPARE.
3 EXISTING AIR HANDLING UNIT IS BEING REMOVED IN DEMOLITION SCOPE; ALL ASSOCIATED EXISTING STARTER(S), DISCONNECT(S), AND ALL WIRING (CONDUCTORS, RACEWAYS, AND SUPPORTS) TO BE REMOVED BACK TO THE SOURCE. DISCONNECT THE CONDUCTORS FROM THE CIRCUIT BREAKER AND LABEL AS A SPARE.
4 EXISTING CAV IS BEING REMOVED IN DEMOLITION SCOPE. PROTECT CIRCUIT AND PREPARE TO REUSE AS INDICATED ON SHEET E02-02.

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ALLEN DISTRICT OF COLUMBIA
WENDY SUSAN WHEELER
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PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

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AGENCY APPROVALS:
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REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DEMOLITION PLAN - LEVEL 02 - POWER

ED02-02

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DEVELOPMENT SERVICES
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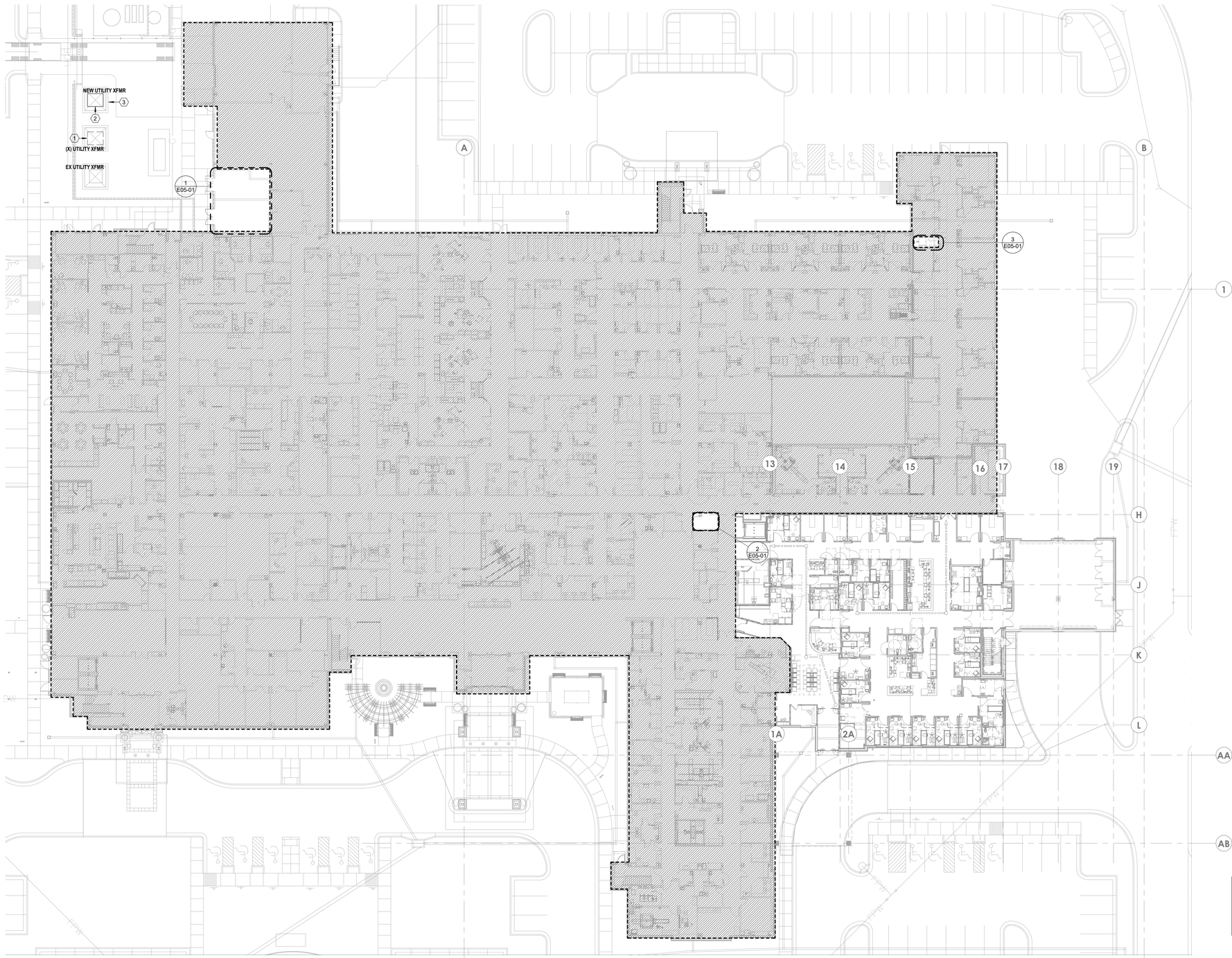
GENERAL NOTES

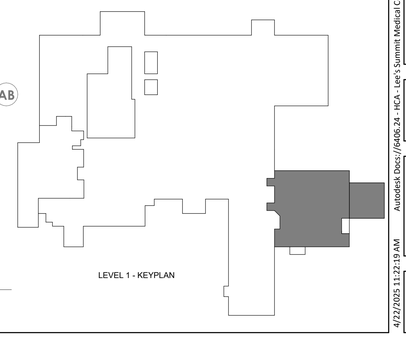
A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
B. REFER TO SHEET E08 SERIES FOR FEEDER AND PANELBOARD SCHEDULES.
C. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES
D. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: SMOKE DAMPERS, FIRE/SMOKE DAMPERS, VAV BOXES, FCU'S, ETC. WITH MECHANICAL DRAWINGS AND DIVISION 23 CONTRACTOR
E. COORDINATE LOCATIONS OF ALL DISCONNECTS, CONTROL PANELS, AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES.

LEGEND NOTES

1 EXISTING 1500KVA UTILITY TRANSFORMER TO BE DEMOLISHED.
2 EXTEND AND RECONNECT FEEDERS TO NEW UTILITY TRANSFORMER. COORDINATE NEW UTILITY TRANSFORMER REQUIREMENTS AND LOCATION WITH UTILITY COMPANY.
3 HOUSEKEEPING PAD FOR ELECTRICAL EQUIPMENT. REFER TO ARCHITECTURAL AND STRUCTURAL SHEETS AND DETAILS FOR ADDITIONAL INFORMATION.



1 OVERALL FLOOR PLAN - LEVEL 01 - POWER
1" = 20'-0"



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04/18/2025
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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 01 - OVERALL

E02-00

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://[6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC ED Expansion_R23.rvt
4/22/2025 11:23:19 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
7/17/2025 9:17:15

GENERAL NOTES

A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
B. REFER TO SHEET E08 SERIES FOR FEEDER AND PANELBOARD SCHEDULES.
C. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES
D. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: SMOKE DAMPERS, FIRE/SMOKE DAMPERS, VAV BOXES, FCU'S, ETC. WITH MECHANICAL DRAWINGS AND DIVISION 23 CONTRACTOR
E. COORDINATE LOCATIONS OF ALL DISCONNECTS, CONTROL PANELS, AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES.

LEGEND NOTES

#	
1	REFER TO "ENLARGED LEVEL 01 - EXAM RM TYPICAL - POWER" ON 07/E05-01 FOR TYPICAL POWER DEVICE LAYOUT.
2	DEVICE(S) TO BE LOCATED IN TV BACK-BOX; REFER TO TECHNOLOGY DRAWINGS FOR SPECIFICATION AND DETAILS. COORDINATE EXACT LOCATION WITH MONITOR/ TV MOUNTING BRACKET. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR BRACKET MOUNTING HEIGHT AND EXACT LOCATIONS PRIOR TO ROUGH-IN.
3	PROVIDE BLANK FACE (FACELESS) GFCI IN A READILY ACCESSIBLE LOCATION FOR RECEPTACLE INDICATED LABEL PER DEVICE INDICATED ON DRAWINGS. REFER TO DETAIL 01/E07-01 FOR ADDITIONAL DETAILS.
4	PROVIDE 120V POWER CONNECTION TO VAV'S IN THIS AREA TO EMERGENCY EQUIPMENT CIRCUIT INDICATED. PROVIDE 20A 1P SWITCH AT CONTROL TRANSFORMER(S). REFER TO MECHANICAL DRAWINGS FOR BOX LOCATIONS. MAXIMUM OF 15 TERMINAL UNITS PER CIRCUIT. QUANTITY OF VAV'S SHALL BE BALANCED BETWEEN THE CIRCUITS INDICATED IN THE SAME SMOKE ZONE. TERMINAL UNITS IN DIFFERENT SMOKE ZONES SHALL NOT BE ON THE SAME CIRCUIT.
5	PROVIDE 120V POWER CONNECTION TO FIRE/SMOKE DAMPERS, SMOKE DAMPERS, AND MOTORIZED DAMPERS IN THIS AREA. PROVIDE SEPARATE RELAYS FOR EACH DUCT DETECTOR TO MEET MECHANICAL SEQUENCES. REFER TO THE ARCHITECTURAL LIFE SAFETY PLANS FOR SMOKE WALLS AND MECHANICAL PLANS FOR THE LOCATIONS OF ALL FIRE/SMOKE DAMPERS, SMOKE DAMPERS, AND MOTORIZED DAMPERS.
B 6	CONNECT TO EXISTING CIRCUITS PREVIOUSLY SERVING ALARM PANELS. EXTEND WIRING AND CONDUIT AS NEEDED.
7	PROVIDE SEPARATE 1" CONDUIT PATHWAY UNDERNEATH NURSE STATION FOR ROUTING OF NORMAL AND CRITICAL EMERGENCY POWER CIRCUITS INDICATED IN THIS NURSE STATION MILLWORK. RUN CONDUIT AND CONDUCTORS OVERHEAD TO NEAREST WALL, DOWN WALL, AND THEN SAWCUT SLAB OVER TO NURSE STATION.
8	INDOOR UNIT TO BE SERVED FROM OUTDOOR UNIT. REFER TO OUTDOOR UNIT FOR FEEDER REQUIREMENTS.
B 9	ALARM PANEL TO BE RELOCATED TO NEW LOCATION AS SHOWN. VERIFY LAYOUT OF ALL ALARM PANELS WITH THE ENGINEER OF RECORD PRIOR TO INSTALLATION.

1 FLOOR PLAN - LEVEL 01 - POWER
1/8" = 1'-0"

LEVEL 1 - KEYPLAN

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KANSAS CITY, MO 64105

REGISTERED PROFESSIONAL ENGINEER
MINDY SUSAN WHEELER
NUMBER PE-2017006125
08/06/2025
WSP USA Buildings Inc. 2013001881

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

ED EXPANSION

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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW COMMENTS	2025/07/30

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
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FLOOR PLAN - LEVEL 01 - POWER

E02-01

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7/28/2025 4:15:43 PM

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
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GENERAL NOTES

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B. REFER TO SHEET E08 SERIES FOR FEEDER AND PANELBOARD SCHEDULES.
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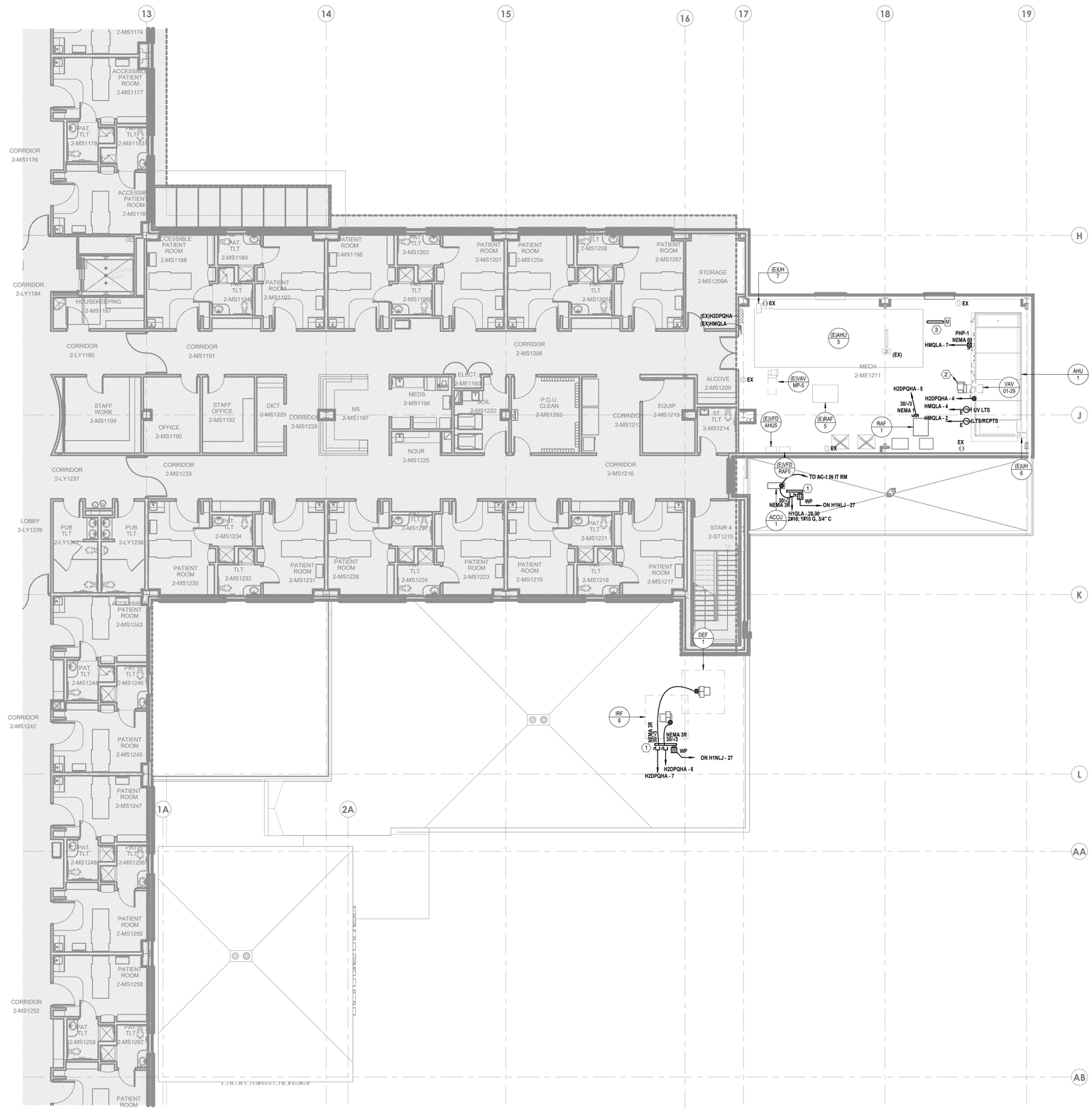
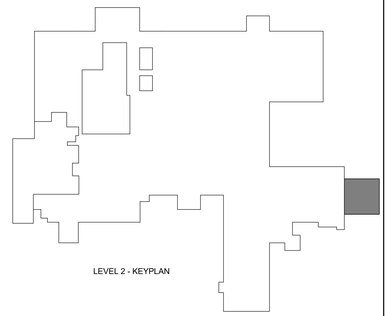
E. COORDINATE LOCATIONS OF ALL DISCONNECTS, CONTROL PANELS, AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES.

LEGEND NOTES

1 PROVIDE (2) POWER PEDESTALS EQUAL TO PP-60-S EACH WITH PP-60B FOR INTEGRATION OF WATERPROOF MEMBRANE INTO T.P.O. ROOF MATERIAL. UNISTRUT TO BE MOUNTED BETWEEN POWER PEDESTALS FOR ELECTRICAL FIXTURES AND EQUIPMENT INDICATED.
2 CONNECT TO EXISTING CIRCUIT PREVIOUSLY VAV'S IN THIS AREA. PROVIDE 20A 1P SWITCH AT CONTROL TRANSFORMER(S).
3 CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING DAMPERS IN THIS SPACE.



1 FLOOR PLAN - LEVEL 02 - POWER
1/8" = 1'-0"



LEVEL 2 - KEYPLAN

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STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017004125
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
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REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 02 - POWER

E02-02

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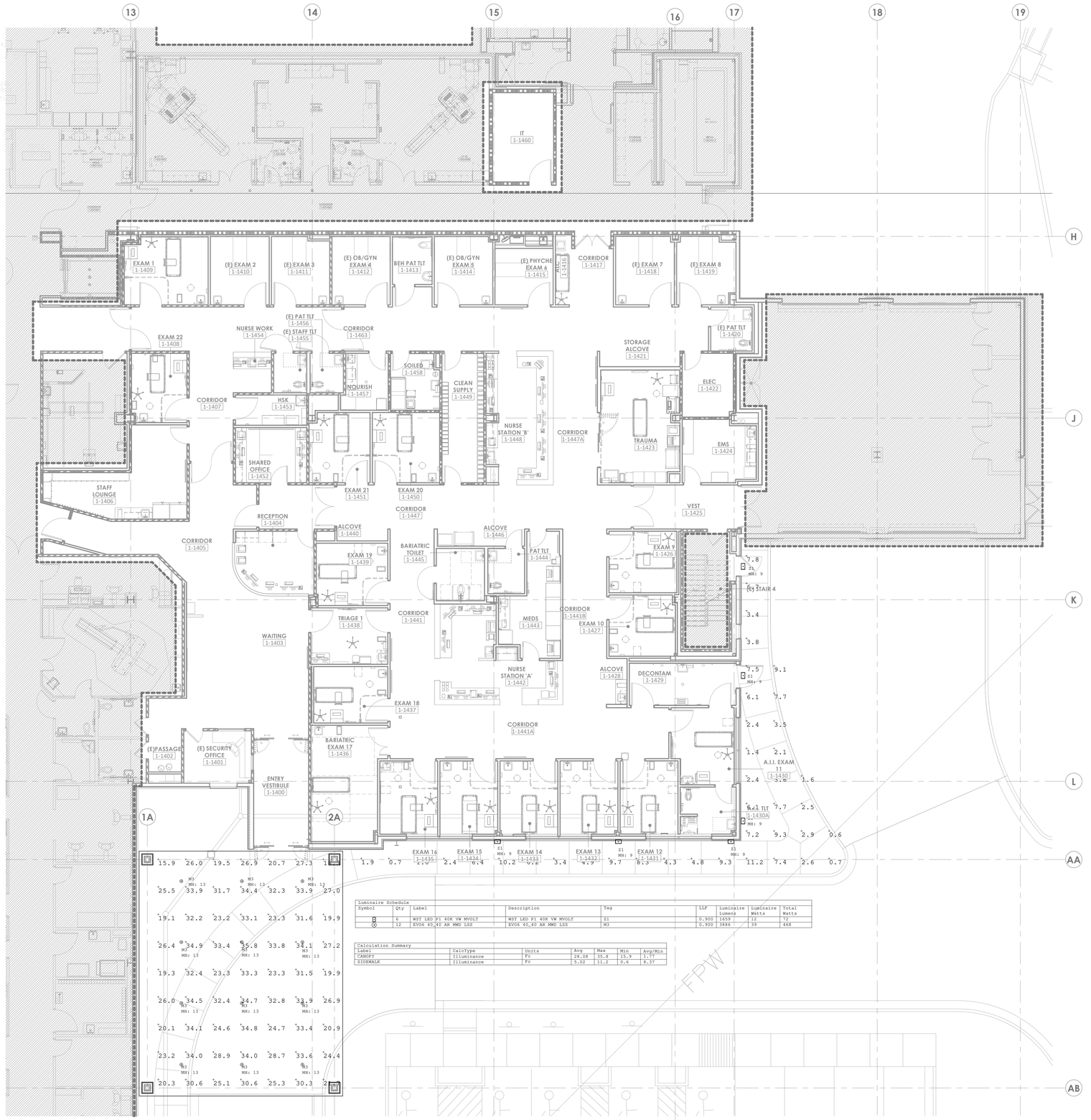
4/22/2025 11:22:25 AM Autodesk Docs://0406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_ LSMC ED Expansion_R23.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:15

GENERAL NOTES

A. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHT OF ALL WIRING DEVICES
B. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
C. REFER TO SHEET E08-01 FOR LIGHT FIXTURE SCHEDULES.
D. CONTRACTORS SHALL USE FMC TRANSITIONS FROM EMT AT BUILDING EXPANSION JOINTS WHEN APPLICABLE. FMC ROUTING SHALL BE PROVIDED TO ALLOW LATERAL AND VERTICAL ADJUSTMENTS IN LINE WITH COORDINATE EXACT LOCATIONS OF EXPANSION JOINTS WITH ARCHITECTURAL DRAWINGS



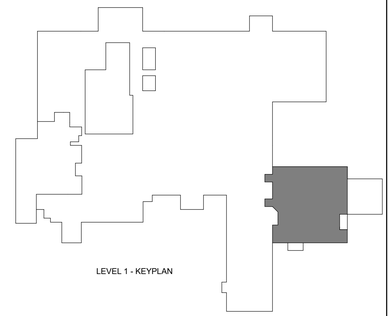
Luminaire Schedule

Symbol	Qty	Label	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	6	WST LED P1 40K VW MVOLT	WST LED P1 40K VW MVOLT	Z1	0.900	1659	12	72
	12	EVO6 40_40 AR MMO LSS	EVO6 40_40 AR MMO LSS	M3	0.900	3886	39	468

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min
CANOPY	Illuminance	Fc	28.08	35.8	15.9	1.77
SIDEWALK	Illuminance	Fc	5.02	11.2	0.6	8.37

1 FLOOR PLAN - LEVEL 01 - SITE LIGHTING - PHOTOMETRICS
1/8" = 1'-0"



LEVEL 1 - KEYPLAN

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STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017006125
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

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MISSOURI DHSS

FACILITY NUMBER:
0972400011

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AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

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SCALE:	1/8" = 1'-0"
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SITE PLAN - PHOTOMETRICS

E03-00

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4/22/2025 11:22:28 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
7/7/2025 9:17:15

GENERAL NOTES

A. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHT OF ALL WIRING DEVICES
B. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
C. REFER TO SHEET E08-01 FOR LIGHT FIXTURE SCHEDULES.
D. CONTRACTORS SHALL USE FMC TRANSITIONS FROM EMT AT BUILDING EXPANSION JOINTS WHEN APPLICABLE. FMC ROUTING SHALL BE PROVIDED TO ALLOW LATERAL AND VERTICAL ADJUSTMENTS IN LINE WITH COORDINATE EXACT LOCATIONS OF EXPANSION JOINTS WITH ARCHITECTURAL DRAWINGS

LEGEND NOTES

1 REFER TO LIGHTING CONTROL SCHEDULE ON E08-01. COORDINATE LOCATION OF PHOTOCELL WITH THE ARCHITECT.
2 CONNECT TO EXISTING EXTERIOR LIFE SAFETY CIRCUIT AND CONTROL PREVIOUSLY SERVING THIS AREA.
3 DEVICES IN DECONTAMINATION ROOM SHALL BE PROVIDED WITH A WEATHERPROOF ENCLOSURE.

1 FLOOR PLAN - LEVEL 01 - LIGHTING
1/8" = 1'-0"

LEVEL 1 - KEYPLAN

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STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017004125
PROFESSIONAL ENGINEER
08/06/2025
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C	STATE - 2ND REVIEW COMMENTS	2025/07/30

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FLOOR PLAN - LEVEL 01 - LIGHTING

E03-01

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7/28/2025 4:15:49 PM

RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
7/7/2025 9:17:15

GENERAL NOTES

A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES.
B. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO F/S DAMPERS, VAV BOXES, FCU'S ETC. WITH MECHANICAL DRAWINGS AND DIV.23 CONTRACTOR.
C. DO NOT SCALE DEVICE LOCATIONS FROM THESE DRAWINGS. REFER TO AND COORDINATE WITH THE ARCHITECTURAL DOCUMENTS. SPECIFICALLY, REFER TO ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR SPECIALTY
D. DELEGATED DESIGN OF FIRE ALARM: REFER TO DIVISION 28 SPECIFICATION SECTION FOR ADDITIONAL SYSTEM REQUIREMENTS. FIRE ALARM INITIATING DEVICES, NOTIFICATION APPLIANCES, CONTROL PANELS, ANNUNCIATOR PANELS, AND OTHER PERIPHERAL DEVICES SHOWN ON THESE DOCUMENTS DO NOT CONSTITUTE THE TOTAL QUANTITY OR TYPE OF DEVICES REQUIRED FOR THE WORK. THE DEVICES AND EQUIPMENT INDICATED ON THESE DOCUMENTS IS SHOWN FOR THE PURPOSE OF COORDINATION ONLY. THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS DEFINE THE SCOPE AND INTENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED IN THE WORK. IN ADDITION TO THE SYSTEM AS SHOWN HEREIN AND SPECIFIED IN THE PROJECT MANUAL, THE LICENSED FIRE ALARM CONTRACTOR SHALL PROVIDE ALL PLANNING, DESIGN, CALCULATIONS, EQUIPMENT, DEVICES, RACEWAYS, BOXES, CABLING, SYSTEM PROGRAMMING AND ANY OTHER COMPONENT OR SERVICE REQUIRED FOR A COMPLETE, FULLY OPERATIONAL SYSTEM THAT MEETS ALL SPECIFIED REQUIREMENTS AND LOCAL CODES.
E. SMOKE DETECTOR SPACING: FOR AREAS WHICH ARE INDICATED TO HAVE SMOKE DETECTOR COVERAGE THAT DO NOT HAVE A SUSPENDED CEILING (I.E. OPEN TO STRUCTURE), PROVIDE ONE DETECTOR PER STRUCTURAL POCKET TO MEET REQUIREMENTS OF NFPA 72. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND TO STRUCTURAL SLAB DETAILS FOR SLAB DEPRESSIONS THAT MAY CAUSE CONDITIONS REQUIRING ADDITIONAL DETECTORS.
F. DETECTORS AT DAMPERS: PROVIDE A DUCT MOUNTED SMOKE DETECTOR AT ALL SMOKE AND COMBINATION FIRE/SMOKE DAMPER LOCATIONS. EACH DAMPER SHALL HAVE A DISCRETE RELAY LOCATED WITHIN 3 FT. OF THE CONTROLLING COMPONENT. COMMON RELAYS ARE NOT ACCEPTABLE. EXACT DEVICE QUANTITIES AND LOCATIONS FOR DAMPERS ARE SHOWN ON MECHANICAL DRAWINGS. REFER TO AND COORDINATE WITH DIVISION 23 DOCUMENTS, APPROVED SHOP DRAWINGS AND SUBMITTALS AND BETWEEN TRADES WITH HVAC INSTALLER PRIOR TO ROUGH-IN. REFER TO DIVISION 23 AND 28 SPECIFICATIONS AND TO DETAILS FOR ADDITIONAL REQUIREMENTS.
G. PROVIDE APPROPRIATE EQUIPMENT AND CONNECTION(S) REQUIRED TO RELEASE DOOR HOLDERS UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.
H. PROVIDE EQUIPMENT AND CONNECTION(S) REQUIRED TO MONITOR KITCHEN HOOD SUPPRESSION SYSTEM(S).

LEGEND NOTES

1 EXISTING FIRE ALARM DEVICES TO REMAIN.
2 DEVICES IN DECONTAMINATION ROOM SHALL BE PROVIDED WITH A WEATHERPROOF ENCLOSURE.

1 FLOOR PLAN - LEVEL 01 - SPECIAL SYSTEMS
1/8" = 1'-0"

LEVEL 1 - KEYPLAN

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FLOOR PLAN - LEVEL 01 - SPECIAL SYSTEM

E04-01

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7/30/2025 4:15:54 PM

RELEASE FOR CONSTRUCTION
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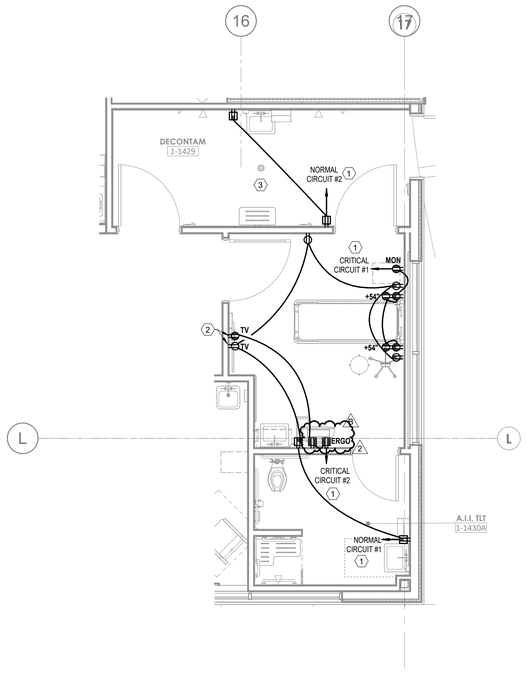
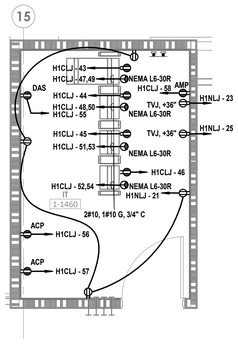
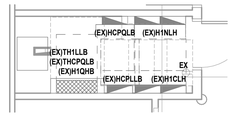
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:15



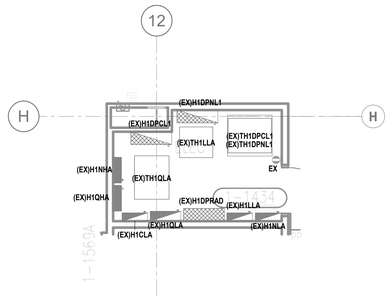
9 ENLARGED LEVEL 01 - A.I.I. EXAM, DECON - POWER
1/4" = 1'-0"



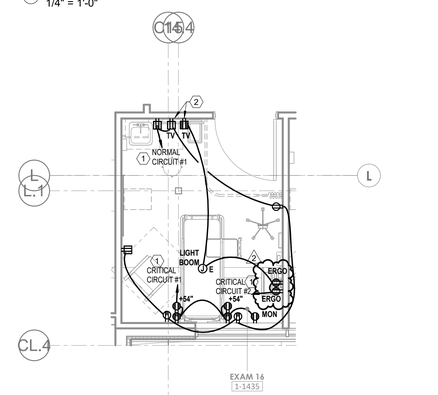
6 ENLARGED LEVEL 01 - IT 1-1460 - POWER
1/4" = 1'-0"



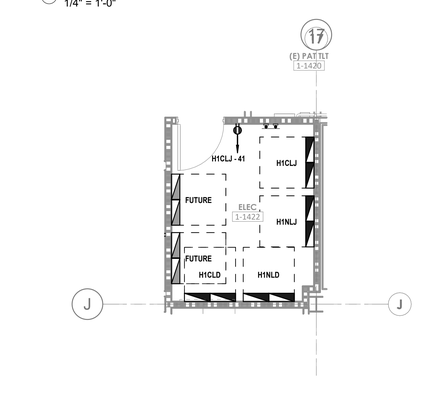
3 ENLARGED LEVEL 01 - ICU ELEC RM - POWER
1/4" = 1'-0"



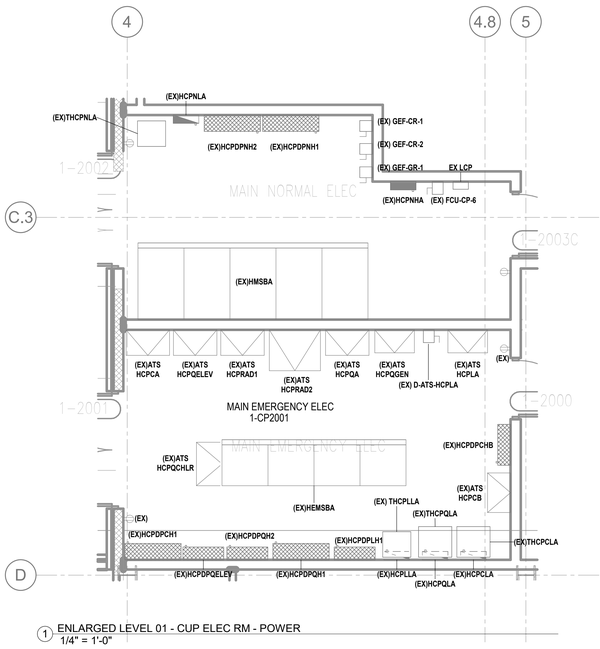
2 ENLARGED LEVEL 01 - ELEC ME 1-1434 - POWER
1/4" = 1'-0"



8 ENLARGED LEVEL 01 - BARIATRIC EXAM RM - POWER
1/4" = 1'-0"



5 ENLARGED LEVEL 01 - TRAUMA RM - POWER
1/4" = 1'-0"



1 ENLARGED LEVEL 01 - CUP ELEC RM - POWER
1/4" = 1'-0"

7 ENLARGED LEVEL 01 - EXAM RM TYPICAL - POWER
1/4" = 1'-0"

4 ENLARGED LEVEL 01 - ELEC ME 1-1422 - POWER
1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET E00-00 FOR ELECTRICAL SYMBOLS APPEARING ON THIS SHEET AND ADDITIONAL GENERAL NOTES
B. REFER TO SHEET E08 SERIES FOR FEEDER AND PANELBOARD SCHEDULES.
C. REFER TO AND COORDINATE WITH THE ARCHITECTURAL PLANS, ELEVATIONS, EQUIPMENT VENDOR DRAWINGS AND DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WIRING DEVICES
D. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: SMOKE DAMPERS, FIRE/SMOKE DAMPERS, VAV BOXES, FCU'S, ETC. WITH MECHANICAL DRAWINGS AND DIVISION 23 CONTRACTOR
E. COORDINATE LOCATIONS OF ALL DISCONNECTS, CONTROL PANELS, AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES.

LEGEND NOTES

1 REFER TO E02 SERIES FLOOR PLANS FOR SPECIFIC PANELBOARD CIRCUITING.
2 DEVICE(S) TO BE LOCATED IN TV BACK-BOX; REFER TO TECHNOLOGY DRAWINGS FOR SPECIFICATION AND DETAILS. COORDINATE EXACT LOCATION WITH MONITOR/ TV MOUNTING BRACKET. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR BRACKET MOUNTING HEIGHT AND EXACT LOCATIONS PRIOR TO ROUGH-IN.
3 DEVICES IN DECONTAMINATION ROOM SHALL BE PROVIDED WITH A WEATHERPROOF ENCLOSURE.
4 FLUSH MOUNTED DIGITAL ELAPSED TIME CLOCK EQUAL TO PRIMEX #143-AS233R WITH #109-000105 ELAPSED TIMER KIT FOR REMOTE START-STOP-RESET CONTROL. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
5 FLUSH MOUNT BOX FOR LIGHT CONTROLLER. ROUTE 1"C FROM CONTROLLER TO SURGICAL LIGHT.
6 FLUSH MOUNTED DIGITAL TIME CLOCK EQUAL TO PRIMEX #143-AS233R. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

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STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017006125
PROFESSIONAL ENGINEER
10/24/2025
WSP USA Buildings Inc. 2013001881

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
C	STATE - 2ND REVIEW COMMENTS	2025/07/30
2	ASI-002 - DESIGN COORDINATION	2025/10/24

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

ENLARGED FLOOR PLAN

E05-01

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

10/24/2025 11:17:32 AM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP - LSMC ED Expansion_R23.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/17/2025 9:17:16

DEMO UTILITY TRANSFORMER 1500KVA XFMR

2

FOR EXISTING FIRE PUMP ATS, SEE SHEET E06-02

EXISTING HMSBA SWITCHBOARD 3000A 480Y/277V 4W+G

EXIST: "HMSBA" LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	NORMAL	LGHT	7,817	9,772		kVA	AMPS
EQUIPMENT TYPE:	SWITCHBOARD	MISC	6,100	6,100	EXISTING CONNECTED LOAD:	1965	2363.5
BUSS RATING:	3000 A	MTRS	81,049	68,323	REMOVED CONNECTED LOAD:	53.2	64
PANEL LUGS:	MLO	RCPT	103,140	56,570	ADDED CONNECTED LOAD:	168.1	202.2
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	2079.9	2501.8
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	2042.8	2457.1
AIC AVAILABLE:	38898 A						
AIC RATING:	65000 A						

1

KK

3000/3

KK

2500/3

TVSS

800/3 800/3 200/3 1000/3 400/3 400/3 100/3 800/3 150/3 800/3 800/3 400/3 800/3

(2) 800A S.O.

2500A GENERATOR TAP BOX NEMA 3R

EXIST HCPDPNH2

TO EX ATS-7 HCPQGEN | TO EX ATS-1 HCPQA | TO EX ATS-4 HCPQELEV | TO EX ATS-6 HCPRAD1 | TO EX ATS-2 HRAD2 | TO EX ATS-3 HCPCA | TO EX ATS-9 HCPLA | EXIST CH-1 | EXIST CH-2 | TO EX ATS-10 HCPCB | TO EX ATS-11 HCPQCHLR

EXISTING HCPDPNH1 DISTRIBUTION PANEL 800A 480Y/277V 4W+G

EXIST: "HCPDPNH1" LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	NORMAL	LGHT	2,466	3,082		kVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	RCPT	39,120	24,560	EXISTING CONNECTED LOAD:	291	350
BUSS RATING:	800 A				REMOVED CONNECTED LOAD:	15.4	18.5
PANEL LUGS:	MLO				ADDED CONNECTED LOAD:	41.6	50
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	317.2	381.6
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	303.3	364.8
AIC AVAILABLE:	35706 A						
AIC RATING:	65000 A						

1

100/3 300/3 35/1 60/3 225/3 100/3 70/3 20/1 200/3

(3) 400A S.O.
(6) 100A S.O.

EXIST TH1DPNL1 112.6KVA XFMR 150KVA

EXIST H1NHA

EXIST H1NIP5

EXIST THCPNLA 15KVA XFMR

EXIST TH2DPNL2 112.5KVA

EXIST HCPNHA

EXIST TH1NLH

SITE LIGHTING

SNOW MELT CONTROL PANEL

EXIST HCPNLA

EXIST H1NLH

EXISTING H2DPNL2 DISTRIBUTION PANEL 600A 208Y/120V 4W+G

400/3 100/3 100/3 100/3 100/3 150/3 100/3 100/3 100/3

EXIST H2NLA | EXIST H2NLB | EXIST H2NLC | EXIST H2NLD | EXIST H2NLE | EXIST H3NLA | EXIST H3NLD | EXIST H3NLE

EXIST: "H1DPNL1" LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	NORMAL	LGHT	2,466	3,082		kVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	RCPT	37,140	23,570	EXISTING CONNECTED LOAD:	139.3	166.7
BUSS RATING:	600 A				REMOVED CONNECTED LOAD:	15.4	42.7
PANEL LUGS:	MCB				ADDED CONNECTED LOAD:	39.6	109.9
VOLTAGE:	120/208 WYE				TOTAL CONNECTED LOAD:	163.5	453.9
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	150.6	417.9
AIC AVAILABLE:	6044 A						
AIC RATING:	10000 A						

1

EXISTING H1DPNL1 DISTRIBUTION PANEL 600A 208Y/120V 4W+G

500/3 100/3 150/3 150/3 150/3 150/3 150/3 100/3 150/3 225/3 225/3

(6) 100A S.O.

EXIST H1NLA | EXIST H1NLB | EXIST H1NLC | DEMO H1NLD | EXIST H1NLE | EXIST H1NLF | EXIST H1NLG | EXIST H1NLH | EXIST H3NLB | EXIST H3NLC

3

LEGEND NOTES

1. EXISTING LOAD IS BASED ON DESIGN LOAD FROM AN ONGOING PROJECT AT THE FACILITY.
2. EXISTING 1500KVA UTILITY TRANSFORMER TO BE DEMOLISHED. EXTEND AND RECONNECT FEEDERS TO NEW UTILITY TRANSFORMER.
3. EXISTING PANELBOARD 'H1NLD' TO BE DEMOLISHED AND EXISTING LOADS REMAINING TO BE RE-CONNECTED TO NEW PANELBOARD 'H1NLD'. UNLESS NOTED OTHERWISE. TRANSFER AND CONNECT LOADS ONE AT A TIME IN COORDINATION WITH THE FACILITY. EXISTING BRANCH CONDUCTORS AND CONDUIT TO REMAIN AND SPLICE WITH NEW CONDUCTOR TO EXTEND TO NEW PANELBOARD.

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STATE OF MISSOURI
MINDY SUSAN WHEELER
NUMBER PE-2017006125
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

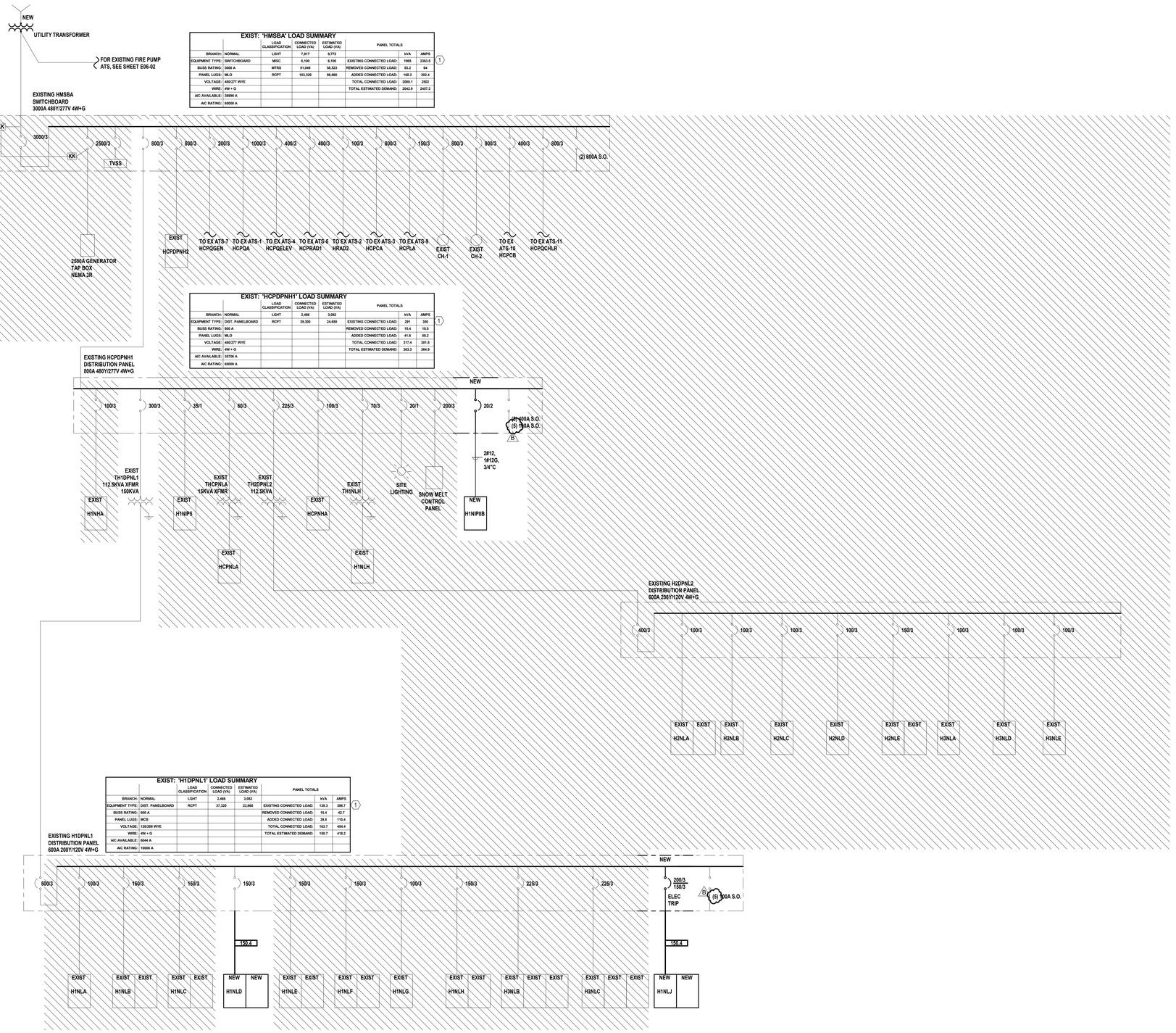
ONE LINE DIAGRAM - NORMAL - DEMO

E06-01

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://6406_24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC ED Expansion_R23.rvt
4/22/2025 11:22:44 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
6/27/2025 9:17:16



EXIST: 'HMSBA' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	NORMAL	LGHT	7,817	9,772	kVA	AMPS
EQUIPMENT TYPE:	SWITCHBOARD	MISC	6,100	6,100	EXISTING CONNECTED LOAD:	1965	2363.5
BUSS RATING:	3000 A	MTRS	81,649	58,323	REMOVED CONNECTED LOAD:	53.2	64
PANEL LUGS:	MLO	RCPT	103,320	56,660	ADDED CONNECTED LOAD:	168.3	202.4
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	2080.1	2502
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	2042.9	2457.2
AIC AVAILABLE:	38896 A						
AIC RATING:	65000 A						

(1)

EXIST: 'HCPDPNH1' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	NORMAL	LGHT	2,466	3,082	kVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	RCPT	39,300	24,650	EXISTING CONNECTED LOAD:	291	350
BUSS RATING:	800 A				REMOVED CONNECTED LOAD:	15.4	18.5
PANEL LUGS:	MLO				ADDED CONNECTED LOAD:	41.8	50.2
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	317.4	381.8
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	303.3	364.9
AIC AVAILABLE:	35706 A						
AIC RATING:	65000 A						

(1)

EXIST: 'H1DPNL1' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	NORMAL	LGHT	2,466	3,082	kVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	RCPT	27,320	23,860	EXISTING CONNECTED LOAD:	139.1	386.7
BUSS RATING:	600 A				REMOVED CONNECTED LOAD:	15.4	42.7
PANEL LUGS:	MCB				ADDED CONNECTED LOAD:	39.8	110.4
VOLTAGE:	120/208 WYE				TOTAL CONNECTED LOAD:	163.7	454.4
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	150.7	418.2
AIC AVAILABLE:	6044 A						
AIC RATING:	10000 A						

(1)

LEGEND NOTES

1. EXISTING LOAD IS BASED ON DESIGN LOAD FROM AN ONGOING PROJECT AT THE FACILITY.
2. MATCH NEW WIRE SIZE TO EXISTING TO REMAIN WIRE SIZE.

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STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017000125
PROFESSIONAL ENGINEER
06/05/2025
WSP USA Buildings Inc. 2013001681

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

ONE LINE DIAGRAM - NORMAL - NEW

E06-02

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC ED Expansion_R23.rvt
6/20/2025 10:29:02 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:16

EXIST 900KW GENERATOR
480Y/277V, 3PH, 4W

EXISTING HEMSBA
SWITCHBOARD
1600A 480Y/277V 4W+G

EXIST: 'HEMSBA' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	EMERGENCY	LGHT	5,302	6,890		kVA	AMPS
EQUIPMENT TYPE:	SWITCHBOARD	MISC	6,100	6,100	EXISTING CONNECTED LOAD:	872.1	1049
BUSS RATING:	1600 A	MTRS	51,049	58,523	REMOVED CONNECTED LOAD:	37.8	45.5
PANEL LUGS:	MLO	RCPT	64,020	37,010	ADDED CONNECTED LOAD:	126.8	152.2
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	960.8	1155.7
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	942.6	1133.8
AIC AVAILABLE:	7962 A						
AIC RATING:	42000 A						

(1)

KK — 1600/3 — KK — TVSS — 1600/3 — 200/3 — 1000/3 — 400/3 — 400/3 — 1000/3 — 800/3 — 150/3 — 300/3 — 400/3 — 600/3 — (1) 800A S.O. (1) 400A S.O.

1600A GENERATOR
TAP BOX
NEMA 3R

TO EX ATS-4 HCPQELEV — TO EX ATS-5 HCPRAD1 — TO EX ATS-2 HRAD2 — TO EXISTING FIRE PUMP — TO EX ATS-10 HCPCB

TO HMSBA — EXIST ATS-1 HCPQA 1000A

TO HMSBA — EXIST ATS-3 HCPCA — EXIST ATS-9 HCPLA

TO HMSBA — EXIST ATS-7 HCPQGEN

EXISTING HCPDPQGEN
DISTRIBUTION PANEL
200A 480Y/277V 4W+G

15/3 — 100/3 100/3 — 50/3 — 70/3 — 35/3

3 #3, 1 #8 G — CNTRL — EXIST JP-1 — EXIST MAC-1 — EXIST MAC-1 — EXIST MAC-1 — EXIST MVP-1 — EXIST — EXIST CA — EXIST HCPQGENLA

EXIST: 'HCPDPCH1' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	CRITICAL	LGHT	3,373	4,216		kVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	MISC	1,700	1,700	EXISTING CONNECTED LOAD:	209.1	261.5
BUSS RATING:	800 A	RCPT	64,020	37,010	REMOVED CONNECTED LOAD:	9	10.8
PANEL LUGS:	MCB				ADDED CONNECTED LOAD:	69.1	83.1
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	269.2	323.8
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	243.1	292.4
AIC AVAILABLE:	33029 A						
AIC RATING:	65000 A						

(1)

EXISTING HCPDPCH1
DISTRIBUTION PANEL
800A 480Y/277V 4W+G

225/3 — 60/3 — 225/3 — 60/2 — 35/1 — 60/2 — 35/1 — 60/2 — 35/1 — 60/2 — 35/1 — 35/1 — 35/1 — 35/3 SPARE — 60/2 — 175/3 — (7) 250A S.O.

EXIST TH1DPCL1 75KVA XFMR — EXIST THCPCLA 30KVA XFMR — EXIST TH2DPCL2

EXIST H1CIP1A — EXIST H1CIP1B — EXIST H1CIP2A — EXIST H1CIP2B — EXIST H1CIP3A — EXIST H1CIPB — EXIST H1CIP4A — EXIST H1CIP4B — EXIST H1CIP5 — EXIST H1CIP6 — EXIST H1CIP7A

EXIST TH3DPCL3 112.5KVA

TO EXISTING PNLBD H2DPCL2 — TO EXISTING PNLBD HCPCLA — TO EXISTING PNLBD H3DPCL3

EXIST H1LLA — EXIST H2LLA

EXIST: 'HCPDPQH1' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	EQUIPMENT	MISC	2,500	2,500		kVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	MTRS	51,049	58,523	EXISTING CONNECTED LOAD:	472.8	566.7
BUSS RATING:	1200 A				REMOVED CONNECTED LOAD:	28.8	34.7
PANEL LUGS:	MLO				ADDED CONNECTED LOAD:	53.5	64.4
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	497.5	596.4
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	500	607.4
AIC AVAILABLE:	54453 A						
AIC RATING:	65000 A						

(1)

EXISTING HCPDPQH1
DISTRIBUTION PANEL
1200A 480Y/277V 4W+G

60/3 — 60/3 — 150/3 — 400/3 — 250/3 — 350/3 — 300/3 — 200/3 — 90/3 — 400/3 — 80/3 — 100/3 — 100/3 — 250/3 — 20/3 15/3 — 20/3 15/3 — 400/3 400/3 — (4) 100A S.O. (1) 200A S.O.

EXIST THCPQLA 30KVA XFMR — EXIST TH1QLA 75KVA XFMR — TO EX HCPDPQH2 — TO EX H2DPQHB — TO EX HPDPQHC — TO EX HPDPQHD — EXIST ACCU-3 — TO EX H3DPQHA — TO EX PHILIPS HYBRID — TO EX RTU-1 HYBRID — TO EX H1QHA — TO EX H1QHB — EXIST VFD — EXIST VFD — TO EX H3DPQB

EXIST H1QHA — EXIST HCPQLA — EXIST H1QLA

EXIST HRWP-1 — EXIST HRWP-1

EXIST: 'H2DPQHA' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	EQUIPMENT	MISC	1,000	1,000		kVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	MTRS	43,270	80,744	EXISTING CONNECTED LOAD:	77.3	93
BUSS RATING:	400 A				REMOVED CONNECTED LOAD:	28.8	34.7
PANEL LUGS:	MLO				ADDED CONNECTED LOAD:	44.3	53.2
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	92.8	111.6
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	100.2	120.6
AIC AVAILABLE:	5862 A						
AIC RATING:	22000 A						

(2)

EXISTING H2DPQHA
DISTRIBUTION PANEL
400A 480Y/277V 4W+G

DEMO — DEMO

40/3 — 125/3 — 25/3 — 70/3 — 15/3 — 15/3 SPARE — 15/1 SPARE — 15/1 SPARE — 45/3 SPARE — 15/3 SPARE — 15/3 SPARE — 15/3 SPARE

EXIST THMQLA 15KVA XFMR — EXIST VFD — EXIST VFD — DEMO VFD — DEMO VFD

EXIST HMQLA — EXIST AHU-5 — EXIST RAF-5 — DEMO AHU-1 — DEMO RAF-1

EXIST: 'H1DPCL1' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	CRITICAL	LGHT	3,373	4,216		kVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	MISC	1,200	1,200	EXISTING CONNECTED LOAD:	90.4	291
BUSS RATING:	400 A	RCPT	59,620	34,810	REMOVED CONNECTED LOAD:	9	24.9
PANEL LUGS:	MCB				ADDED CONNECTED LOAD:	64.2	178.2
VOLTAGE:	120/208 WYE				TOTAL CONNECTED LOAD:	145.6	404.2
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	121.7	337.7
AIC AVAILABLE:	5327 A						
AIC RATING:	10000 A						

(2)

EXISTING H1DPCL1
DISTRIBUTION PANEL
400A 208Y/120V 4W+G

400/3 — 100/3 — 150/3 — 150/3 — 150/3 — 150/3 — 100/3 — 100/3 — 150/3 — (1) 150A S.O.

EXIST H1CLA — EXIST H1CLB — EXIST — EXIST H1CLC — EXIST — DEMO H1CLD — DEMO — EXIST H1CLE — EXIST — EXIST H1CLF — EXIST H1CLG — EXIST H1CLH — EXIST

(3)

EXIST: 'HCPDPLH1' LOAD SUMMARY

		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)	PANEL TOTALS		
BRANCH:	LIFE SAFETY	LGHT	1,979	2,474		kVA	AMPS
EQUIPMENT TYPE:	DIST. PANELBOARD	MISC	1,900	1,900	EXISTING CONNECTED LOAD:	53.7	64.6
BUSS RATING:	200 A				REMOVED CONNECTED LOAD:	0	0
PANEL LUGS:	MCB				ADDED CONNECTED LOAD:	3.9	4.7
VOLTAGE:	480/277 WYE				TOTAL CONNECTED LOAD:	57.6	69.3
WIRE:	4W + G				TOTAL ESTIMATED DEMAND:	58.1	69.9
AIC AVAILABLE:	19683 A						
AIC RATING:	65000 A						

(1)

EXISTING HCPDPLH1
DISTRIBUTION PANEL
150A 480Y/277V 4W+G

40/3 — 90/3 — 60/3 — 100/3 90/3 — 20/1 20/1

EXIST THCPLLA 150KVA XFMR — EXIST TH1LLB 30KVA XFMR — SITE LIGHTING — EXIST D-TH3LLA 100/90/3 — EXIST 100/90/3 — EXIST HCPLLA — EXIST HCPLLB — EXIST TH3LLA 45KVA XFMR — EXIST H3LLA — SPD

EXIST H1LLA — EXIST H2LLA

TO HMSBA — DPM — EXIST ATS-11 HCPQCHLR 800A

EXISTING HCPQCHLR
DISTRIBUTION PANEL
800A 480Y/277V 4W+G

700/3 700/3 — 200/3 125/3 — 15/3 15/3 — 60/3 SPARE — 60/3

EXIST VFD — EXIST VFD — EXIST 30t-3 — EXIST THCPQLCHLR

EXIST CH-3 — EXIST CHWP-3 — EXIST FCU-CP-7

EXIST HCPQL CHLR

LEGEND NOTES

1. EXISTING LOAD IS BASED ON DESIGN LOAD FROM AN ONGOING PROJECT AT THE FACILITY.
2. EXISTING LOAD BASED ON 30-DAY METERED LOAD + 1.25 FROM 01/17/2025 - 02/16/2025.
3. EXISTING PANELBOARD 'H1CLD' TO BE DEMOLISHED AND EXISTING LOADS REMAINING TO BE RE-CONNECTED TO NEW PANELBOARD 'H1CLD', UNLESS NOTED OTHERWISE. TRANSFER AND CONNECT LOADS ONE AT A TIME IN COORDINATION WITH THE FACILITY. EXISTING BRANCH CONDUCTORS AND CONDUIT TO REMAIN AND SPLICE WITH NEW CONDUCTOR TO EXTEND TO NEW PANELBOARD.

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KANSAS CITY, MO 64105

STATE OF MISSOURI
BRODY SUSAN WHEELER
NUMBER PE-2017006125
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US00040241.3707

ONE LINE DIAGRAM - EMERGENCY - DEMO

E06-03

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

4/22/2025 11:22:47 AM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC ED Expansion_R23.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
6/27/2025 9:17:16

EXIST 900KW GENERATOR
480Y/277V, 3PH, 4W

EXISTING HEMSBA
SWITCHBOARD
1600A 480Y/277V 4W+G

EXIST: 'HEMSBA' LOAD SUMMARY

BRANCH:	EMERGENCY	LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)
	LIGHT	5,302	6,890	
EQUIPMENT TYPE:	SWITCHBOARD	MISC	6,100	6,100
BUSS RATING:	1600 A	MTRS	51,049	58,523
PANEL LUGS:	MLO	RCPT	64,020	37,010
VOLTAGE:	480/277 WYE			
WIRE:	4W + G			
AIC AVAILABLE:	7962 A			
AIC RATING:	42000 A			

PANEL TOTALS	kVA	AMPS
EXISTING CONNECTED LOAD:	872.1	1049
REMOVED CONNECTED LOAD:	37.8	45.5
ADDED CONNECTED LOAD:	126.8	152.2
TOTAL CONNECTED LOAD:	960.8	1155.7
TOTAL ESTIMATED DEMAND:	942.6	1133.8

(1)

KK — 1600/3 — 1600/3 — KK — TVSS

200/3 — 1000/3 — 400/3 — 400/3 — 1000/3 — 800/3 — 150/3 — 300/3 — 400/3 — 800/3 — (1) 800A S.O. (1) 400A S.O.

1600A GENERATOR
TAP BOX
NEMA 3R

TO EX ATS-4 HCPQELEV — TO EX ATS-5 HCPRAD1 — TO EX ATS-2 HRAD2 — TO EXISTING FIRE PUMP — TO EX ATS-10 HCPLB

TO HMSBA — EXIST ATS-1 HCPQA 1000A
TO HMSBA — EXIST ATS-3 HCPCA
TO HMSBA — EXIST ATS-9 HCPLA
TO HMSBA — EXIST ATS-7 HCPQGEN

EXISTING HCPDPQGEN
DISTRIBUTION PANEL
200A 480Y/277V 4W+G

15/3 — 100/3, 100/3 — 50/3 — 70/3 — 35/3

3 #3, 1 #9 G — CNTRL

EXIST JP-1 — EXIST MAC-1 — EXIST MAC-1 — EXIST MAC-1 — EXIST MVP-1 — EXIST — EXIST CA — EXIST HCPQGENLA

EXIST: 'HCPDPCH1' LOAD SUMMARY

BRANCH:	CRITICAL	LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)
	LIGHT	3,373	4,216	
EQUIPMENT TYPE:	DIST. PANELBOARD	MISC	1,700	1,700
BUSS RATING:	800 A	RCPT	64,020	37,010
PANEL LUGS:	MCB			
VOLTAGE:	480/277 WYE			
WIRE:	4W + G			
AIC AVAILABLE:	33025 A			
AIC RATING:	65000 A			

PANEL TOTALS	kVA	AMPS
EXISTING CONNECTED LOAD:	209.1	251.5
REMOVED CONNECTED LOAD:	9	10.8
ADDED CONNECTED LOAD:	69.1	83.1
TOTAL CONNECTED LOAD:	269.2	323.8
TOTAL ESTIMATED DEMAND:	243.1	292.4

(1)

EXISTING HCPDPCH1
DISTRIBUTION PANEL
800A 480Y/277V 4W+G

NEW

225/3 — 60/3 — 225/3 — 60/2 — 35/1 — 60/2 — 35/1 — 60/2 — 35/1 — 60/2 — 35/1 — 35/1 — 35/1 — 20/2 — 60/2 — 175/3 — (7) 250A S.O.

2#12, 1#12G, 3/4"C

EXIST TH1DPCL1 75KVA XFMR — EXIST TRCPCLA 30KVA XFMR — EXIST TH2DPCL2 — EXIST H1CIP1A — EXIST H1CIP1B — EXIST H1CIP2A — EXIST H1CIP2B — EXIST H1CIP3A — EXIST H1CIP8 — EXIST H1CIP4A — EXIST H1CIP4B — EXIST H1CIP5 — EXIST H1CIP6 — NEW H1CIP8A — EXIST H1CIP7A — EXIST TH3DPCL3 112.5KVA

TO EXISTING PNLBD H2DPCL2 — TO EXISTING PNLBD HCPCLA — TO EXISTING PNLBD H3DPCL3

EXIST: 'HCPDPQH1' LOAD SUMMARY

BRANCH:	EQUIPMENT	LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)
	MISC		2,500	2,500
EQUIPMENT TYPE:	DIST. PANELBOARD	MTRS	51,049	55,523
BUSS RATING:	1200 A			
PANEL LUGS:	MLO			
VOLTAGE:	480/277 WYE			
WIRE:	4W + G			
AIC AVAILABLE:	34453 A			
AIC RATING:	65000 A			

PANEL TOTALS	kVA	AMPS
EXISTING CONNECTED LOAD:	472.8	568.7
REMOVED CONNECTED LOAD:	28.8	34.7
ADDED CONNECTED LOAD:	53.5	64.4
TOTAL CONNECTED LOAD:	497.5	598.4
TOTAL ESTIMATED DEMAND:	505	607.4

(1)

EXISTING HCPDPQH1
DISTRIBUTION PANEL
1200A 480Y/277V 4W+G

60/3 — 60/3 — 150/3 — 400/3 — 250/3 — 350/3 — 300/3 — 200/3 — 90/3 — 400/3 — 80/3 — 100/3 — 100/3 — 250/3 — 20/3, 15/3 — 20/3, 15/3 — 400/3, 400/3 — (4) 110A S.O. (1) 200A S.O.

EXIST TH1QHA — EXIST TH1QLA 75KVA XFMR — EXIST TH1QPQLA 30KVA XFMR — EXIST H1QHA — EXIST HCPQLA — EXIST H1QLA

TO EX HCPDPQH2 — TO EX H2DPQHB — TO EX HPDPQHC — TO EX HPDPQHD — EXIST ACCU-9 — TO EX H3DPQHA — TO EX PHILPS HYBRID — TO EX RTU-1 HYBRID — TO EX H1QHA — TO EX H1QHB — EXIST VFD — EXIST VFD — TO EX H3DPQB

EXIST HRWP-1 — EXIST HWP-1

EXIST: 'H2DPQHA' LOAD SUMMARY

BRANCH:	EQUIPMENT	LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)
	MISC		1,000	1,000
EQUIPMENT TYPE:	DIST. PANELBOARD	MTRS	43,270	50,744
BUSS RATING:	400 A			
PANEL LUGS:	MLO			
VOLTAGE:	480/277 WYE			
WIRE:	4W + G			
AIC AVAILABLE:	5982 A			
AIC RATING:	22000 A			

PANEL TOTALS	kVA	AMPS
EXISTING CONNECTED LOAD:	77.3	93
REMOVED CONNECTED LOAD:	28.8	34.7
ADDED CONNECTED LOAD:	44.3	53.2
TOTAL CONNECTED LOAD:	82.8	111.8
TOTAL ESTIMATED DEMAND:	100.2	120.6

(2)

EXISTING H2DPQHA
DISTRIBUTION PANEL
400A 480Y/277V 4W+G

NEW — NEW — NEW — NEW

1 — 2 — 3

40/3 — 125/3 — 25/3 — 50/3 — 25/3 — 15/3 — 15/3 — 15/1 — SPARE — 45/3 — SPARE — 15/3 — SPARE — 15/3 — SPARE

THERM MAG — THERM MAG — THERM MAG — THERM MAG

3#6, 1#10 G, 3/4" C — 3#12, 1#12G, 3/4"C

10 M — 10 M

CNTRL

EXIST THMQLA 15KVA XFMR — EXIST HMQLA

EXIST VFD — EXIST AHU-5

EXIST VFD — EXIST RAF-5

NEW VFD DIV. 23 — NEW VFD DIV. 23 — NEW VFD 30/√3

15 NEW AHU-1 AVAIL. AMPS: 327EA
15 NEW AHU-1
10 NEW RAF-1 AVAIL. AMPS: 191EA

NEW HOA DIV. 23 — NEW HOA DIV. 23 — NEW 30/√3 — NEW 30/√3

0.25 NEW IRF-9 AVAIL. AMPS: 125TA
0.25 NEW DEF-1 AVAIL. AMPS: 125TA

EXIST TH2QLA 75KVA XFMR — EXIST TH2QPQLA 30KVA XFMR — EXIST H2QHA — EXIST HCPQLB — EXIST H2QLA

TO EX H2DPQHE — TO EX H2DPQHF — TO EX H2DPQHG — EXIST ACCU-10 — TO EX H3DPQHC — TO EX H2QHA — TO EX H2QHB — EXIST VFD — EXIST VFD — TO EX H2DPQB

EXIST HRWP-2 — EXIST HWP-2

EXIST: 'H1DPCL1' LOAD SUMMARY

BRANCH:	CRITICAL	LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)
	LIGHT	3,373	4,216	
EQUIPMENT TYPE:	DIST. PANELBOARD	MISC	1,200	1,200
BUSS RATING:	400 A	RCPT	59,620	34,810
PANEL LUGS:	MCB			
VOLTAGE:	120/208 WYE			
WIRE:	4W + G			
AIC AVAILABLE:	9327 A			
AIC RATING:	10000 A			

PANEL TOTALS	kVA	AMPS
EXISTING CONNECTED LOAD:	95.4	201
REMOVED CONNECTED LOAD:	9	24.9
ADDED CONNECTED LOAD:	64.2	178.2
TOTAL CONNECTED LOAD:	145.6	404.2
TOTAL ESTIMATED DEMAND:	121.7	337.7

(2)

EXISTING H1DPCL1
DISTRIBUTION PANEL
400A 208Y/120V 4W+G

NEW

400/3 — 100/3 — 150/3 — 150/3 — 150/3 — 150/3 — 100/3 — 100/3 — 150/3 — 200/3, 150/3 — ELEC TRIP — B

150 A — 150 A

EXIST H1CLA — EXIST H1CLB — EXIST — EXIST H1CLC — EXIST — NEW H1CLD — NEW — SPD — EXIST H1CLE — EXIST — EXIST H1CLF — EXIST H1CLG — EXIST H1CLH — EXIST — NEW H1CLJ — NEW — SPD

EXIST: 'HCPDPLH1' LOAD SUMMARY

BRANCH:	LIFE SAFETY	LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED LOAD (VA)
	LGHT		1,979	2,474
EQUIPMENT TYPE:	DIST. PANELBOARD	MISC	1,900	1,900
BUSS RATING:	200 A			
PANEL LUGS:	MCB			
VOLTAGE:	480/277 WYE			
WIRE:	4W + G			
AIC AVAILABLE:	19683 A			
AIC RATING:	65000 A			

PANEL TOTALS	kVA	AMPS
EXISTING CONNECTED LOAD:	53.7	64.6
REMOVED CONNECTED LOAD:	0	0
ADDED CONNECTED LOAD:	3.9	4.7
TOTAL CONNECTED LOAD:	57.6	69.3
TOTAL ESTIMATED DEMAND:	58.1	69.9

(1)

EXISTING HCPDPLH1
DISTRIBUTION PANEL
150A 480Y/277V 4W+G

40/2 — 90/3 — 60/3 — 100/3, 90/3 — 20/1, 20/1

EXIST THCPLLA 15KVA XFMR — EXIST TH1LLB 30KVA XFMR — SITE LIGHTING — EXIST D1TH3LLA 100/90/3 — EXIST TH3LLA 45KVA XFMR

EXIST HCPLLA — EXIST HCPLLB

EXIST TH1LLA 45KVA XFMR — EXIST H3LLA — SPD

EXIST H1LLA — EXIST H2LLA

TO HMSBA — DPM — EXIST ATS-11 HCPQCHLR 800A

EXISTING HCPQCHLR
DISTRIBUTION PANEL
800A 480/277V 4W+G

700/3, 700/3 — 200/3, 125/3 — 15/3, 15/3 — 60/3 SPARE — 60/3

EXIST VFD — EXIST VFD — EXIST 30/√3 — EXIST THCPQLCHLR

EXIST CH-3 — EXIST CHWP-3 — EXIST FCU-CP-7

EXIST HCPQL CHLR

LEGEND NOTES

1. EXISTING LOAD IS BASED ON DESIGN LOAD FROM AN ONGOING PROJECT AT THE FACILITY.
2. EXISTING LOAD BASED ON 30-DAY METERED LOAD x 1.25 FROM 01/17/2025 - 02/16/2025.
3. MATCH NEW WIRE SIZE TO EXISTING TO REMAIN WIRE SIZE.

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Consultant:

300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2011000125
PROFESSIONAL ENGINEER
06/05/2025
WSP USA Buildings Inc. 2013001681

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

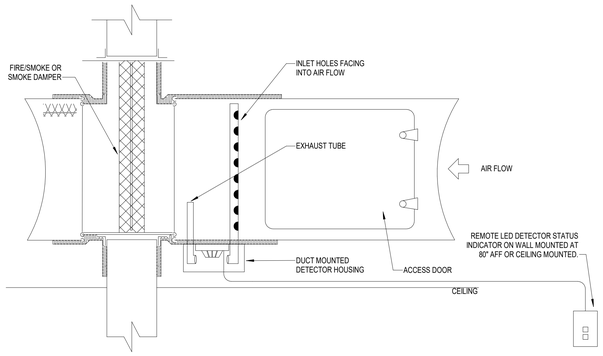
ONE LINE DIAGRAM - EMERGENCY - NEW

E06-04

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

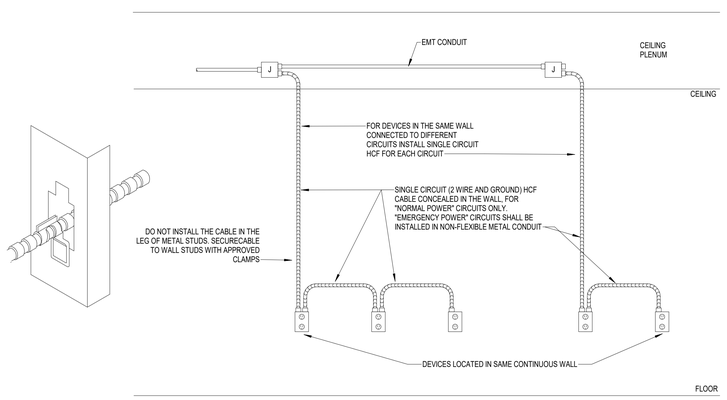
Autodesk Docs://16406_24 - HCA - Lee's Summit Medical Center (LSMC)_zyl23/MEP_LSMC ED Expansion_R23.rvt
6/30/2025 10:29:02 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/7/2025 9:17:16



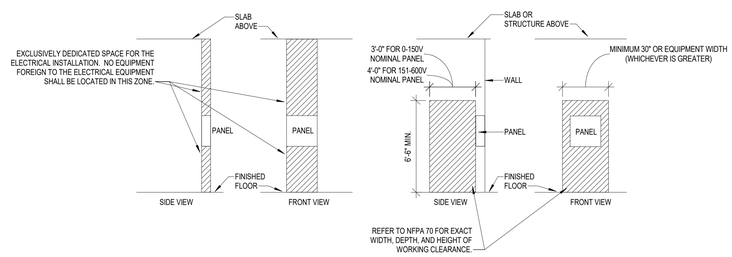
GENERAL NOTES:
A. PROVIDE SMOKE DETECTORS AT ALL FIRE/SMOKE AND SMOKE DAMPER LOCATIONS. COORDINATE EXACT LOCATION OF ALL FIRE/SMOKE AND SMOKE DAMPERS WITH DIVISION 23 FLOOR PLANS. AS REQUIRED BY LOCAL AUTHORITY HOUSING JURISDICTION.
B. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR MOUNTING, LOCATION, AND QUANTITY.

7 DUCT SMOKE DETECTOR DETAIL AT SMOKE AND FIRE/SMOKE DAMPERS
N.T.S.

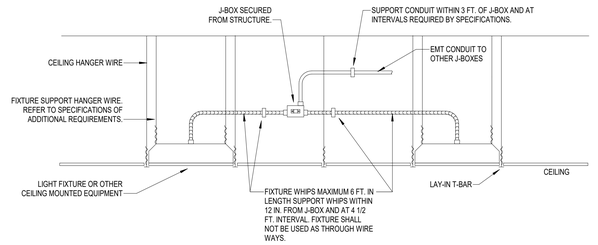


GENERAL NOTES:
A. NOT APPLICABLE FOR EMERGENCY POWER CIRCUITS
B. HFC CABLE MAY BE INSTALLED ONLY CONCEALED IN WALLS.
C. REFER TO SPECIFICATION "LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL REQUIREMENTS.

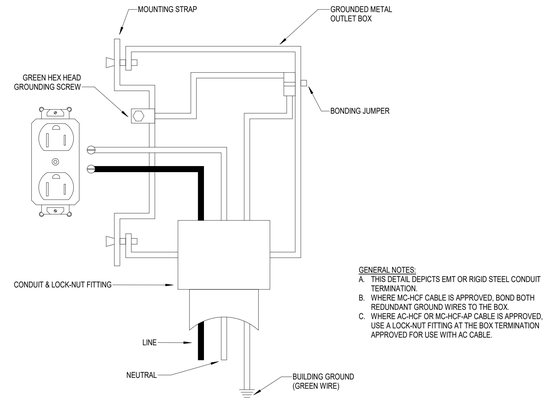
6 HEALTHCARE FACILITIES CABLE (HCF) INSTALLATION DETAIL
N.T.S.



5 TYPICAL PANELBOARD REQUIRED CLEARANCE DETAIL
N.T.S.

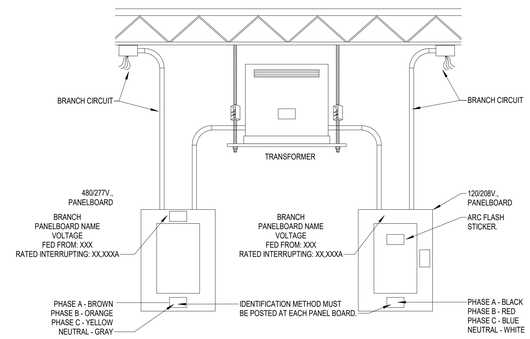


4 LAY-IN FIXTURE MOUNTING DETAIL
N.T.S.



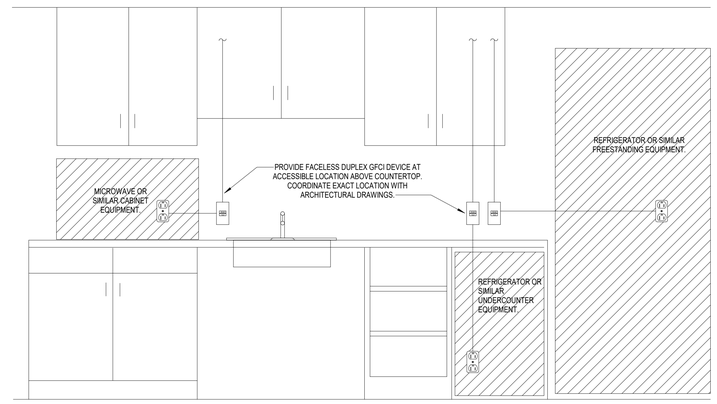
GENERAL NOTES:
A. THIS DETAIL DEPICTS EMT OR RIGID STEEL CONDUIT TERMINATION.
B. WHERE MC-HCF CABLE IS APPROVED, BOND BOTH REDUNDANT GROUND WIRES TO THE BOX.
C. WHERE AC-HCF OR MC-HCF-AP CABLE IS APPROVED, USE A LOCKNUT FITTING AT THE BOX TERMINATION APPROVED FOR USE WITH AC CABLE.

3 RECEPTACLE GROUNDING DETAIL
N.T.S.



GENERAL NOTES:
A. WHEN MORE THAN ONE NORMAL VOLTAGE SYSTEM SUPPLIES THE PREMISES THE FOLLOWING MUST BE APPLIED PER NFAP 70.
   1. ALL DISTRIBUTION EQUIPMENT AS DEFINED BY NFPA 70 SHALL BE IDENTIFIED BY SYSTEM.
   2. IDENTIFICATION OF BRANCH CIRCUITS MUST BE IDENTIFY BY COLOR CODING, TAGGING, MARKING TAPE, OR APPROVED MEANS AND SHALL BE PERMANENTLY POSTED AT BRANCH CIRCUIT PANELBOARD OR SIMILAR BRANCH CIRCUIT DISTRIBUTION EQUIPMENT.
B. CONTENTS OF LABELS SHOW IN DETAIL ARE EXAMPLES ONLY. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS OF EACH LABEL.

2 PANEL IDENTIFICATION DETAIL
N.T.S.



1 ACCESSIBLE GFCI DETAIL
N.T.S.

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

WSP
300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017060125
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	N.T.S.
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

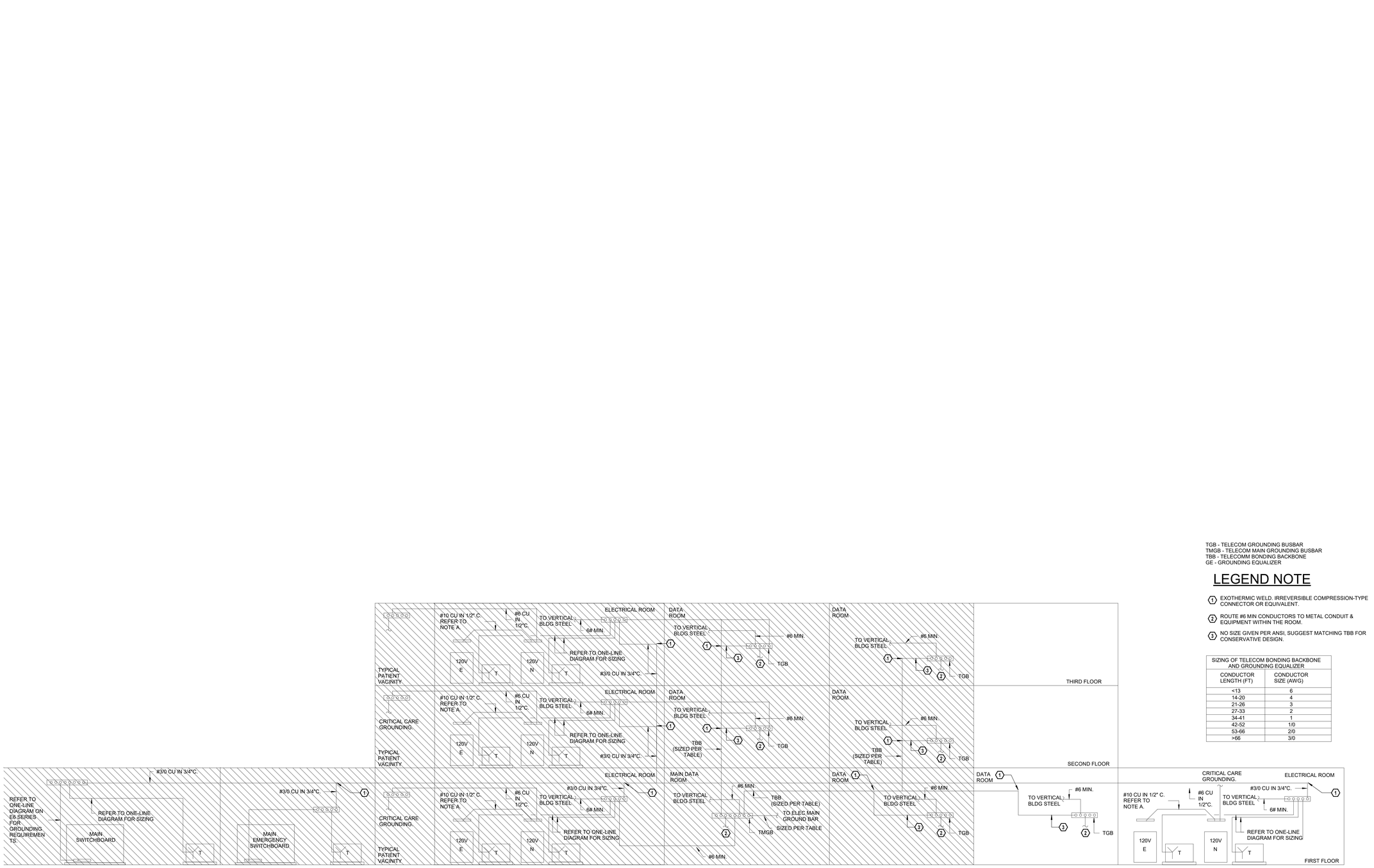
DETAILS - ELECTRICAL

E07-01

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

4/22/2025 11:22:49 AM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_ LSMC ED Expansion_R23.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:16



1 TYPICAL ROOF MOUNTED RECEPTACLE
N.T.S.

TGB - TELECOM GROUNDING BUSBAR
TMGB - TELECOM MAIN GROUNDING BUSBAR
TBB - TELECOMM BONDING BACKBONE
GE - GROUNDING EQUALIZER

LEGEND NOTE

1. EXOTHERMIC WELD. IRREVERSIBLE COMPRESSION-TYPE CONNECTOR OR EQUIVALENT.
2. ROUTE #6 MIN CONDUCTORS TO METAL CONDUIT & EQUIPMENT WITHIN THE ROOM.
3. NO SIZE GIVEN PER ANSI. SUGGEST MATCHING TBB FOR CONSERVATIVE DESIGN.

SIZING OF TELECOM BONDING BACKBONE AND GROUNDING EQUALIZER

CONDUCTOR LENGTH (FT)	CONDUCTOR SIZE (AWG)
<13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
>66	3/0

Devenney Group

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STATE OF MISSOURI
MINDY SUSAN WHEELER
NUMBER PE-2017008125
PROFESSIONAL ENGINEER

04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	N.T.S.
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DETAILS - ELECTRICAL

E07-02

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_yr23/MEP_ LSMC ED Expansion_R23.rvt
4/22/2025 11:22:50 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
6/17/2025 9:17:16

ELECTRICAL LUMINAIRE FIXTURE SCHEDULE

TYPE	PHYSICAL DESCRIPTION						ELECTRICAL SPECIFICATIONS								MANUFACTURER INFORMATION		
	DESCRIPTION	LOCATION	HOUSING	REFLECTOR	SHIELDING	FINISH	MOUNTING	COLOR TEMP.	LAMP	LUMENS	HOURS	VA	UNITS	BALLAST / DRIVER	VOLTAGE	MANUFACTURER	CATALOG NUMBER	REMARKS
A1	2' x 4' LED VOLUMETRIC TROFFER	EMS, PUBLIC AND CORRIDOR	ONE PIECE STEEL	ACRYLIC LINEAR PRISMATIC DIFFUSER	N/A	MATTE WHITE POWDERCOAT	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	4,000	60000	32	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2VTL4 40L ADP EZ1 LP840	
B1	2' x 4' LED ACRYLIC LENSED PREMIUM TROFFER	SOILED, CLEAN SUPPLY	22 GA. STEEL HOUSING	#12 TRANSMISSIVE 0.125" LENS	HINGED AND LATCHED FROM EITHER SIDE, ENCLOSED SPRING LOADED CAM LATCH, WHITE REGRESSED ALUMINUM DOOR WITH MITERED CORNERS	PAINTED AFTER FABRICATION	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	4,800	72000	36	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2GTL 4 48L RW EZ1 LP840 PAF	
B2	2' x 4' LED ACRYLIC LENSED PREMIUM TROFFER	EXAM, TRIAGE, NOUR, NURSE, MEDS	22 GA. STEEL HOUSING	#12 TRANSMISSIVE 0.125" LENS	HINGED AND LATCHED FROM EITHER SIDE, ENCLOSED SPRING LOADED CAM LATCH, WHITE REGRESSED ALUMINUM DOOR WITH MITERED CORNERS	PAINTED AFTER FABRICATION	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	6,600	72000	48	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2GTL 4 60L RW EZ1 LP840 PAF	
B4	2' x 4' LED ACRYLIC LENSED PREMIUM TROFFER, WET LOCATION LISTED	DECONTAM	20 GA. STEEL HOUSING	DIFFUSED ACRYLIC	0.060 PAINTED ALUMINUM DOOR FRAM	PAINTED AFTER FABRICATION	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	4,800	72000	41	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#WRTL X L48 5000LM OAW AFL MVOLT EZ140K 80CRI	
D1	2' x 2' LED VOLUMETRIC TROFFER	RESTROOM	ONE PIECE STEEL	ACRYLIC LINEAR PRISMATIC DIFFUSER	WHITE REGRESSED ALUMINUM DOOR	MATTE WHITE POWDERCOAT	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	3,300	60000	26	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2VTL2 33L ADP EZ1 LP840	
D2	2' x 2' LED VOLUMETRIC TROFFER	STAFF WORKING	ONE PIECE STEEL	ACRYLIC LINEAR PRISMATIC DIFFUSER	WHITE REGRESSED ALUMINUM DOOR	MATTE WHITE POWDERCOAT	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	4,000	60000	33	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2VTL2 40L ADP EZ1 LP840	
J2	4'-0" LED LOW PROFILE LENSED STRIPLIGHT WITH DROP LENS FOR 10% UPLIGHT	ELECTRICAL ROOM	20 GA. HEAVY DUTY STEEL HOUSING	SYMMETRIC REFLECTOR	COLD ROLLED STEEL	WHITE FINISH, PAINTED AFTER FABRICATION	CHAIN HUNG AT 9'-0" A.F.F. LOCATED AROUND EQUIPMENT	4,000	LED	7,600	50000	59	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2L1D L48 SMR 7000LM FSTMVOLT 40K 80CRI WH PAF	
L3	LED VANITY SCONCE, 24" LENGTH, DIRECT-INDIRECT LIGHT	TOILET ROOMS	N/A	N/A	N/A	BRUSHED ALUMINUM FINISH	WALL MOUNTED, REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT	4,000	LED	1,932	60000	20	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	WINONA	#WFW4608 24LONG LED2X2 40K MVOLT OAE BA MEZ126783-MOD	
M2	6" LED DOWNLIGHT WITH 45 DEGREE CUT OFF	ALCOVE, RECEP, NURSE/CORR	16 GA. GALVANIZED STEEL CONSTRUCTION	HIGH-IMPACT, FROSTED POLYCARBONATE LENS	LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERATURE	MATTE WHITE SELF-FLANGED, SEMI-SPECULAR FINISH	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	1,500	60000	15	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	GOTHAM	#EVO6 40/15 AR MWD LSS MVOLT GZ10	
M4	6" LED DOWNLIGHT WITH 45 DEGREE CUT OFF	PATIENT/EXAM ROOM	16 GA. GALVANIZED STEEL CONSTRUCTION	HIGH-IMPACT, FROSTED POLYCARBONATE LENS	LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERATURE	MATTE WHITE SELF-FLANGED, SEMI-SPECULAR FINISH	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	2,000	60000	20	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	GOTHAM	#EVO6 40/20 AR MWD LSS MVOLT GZ10	
R2	6" LED SHOWER LIGHT, IP 65 RATED	RESTROOM	20 GA. STEEL HOUSING	ALUMINUM DIE CAST REFLECTOR	REGRESSED PRISMATIC LENS	SPECULAR CLEAR ALZAK REFLECTOR FINISH	RECESSED GYPSUM BOARD OR LAY IN CEILING, VERIFY CEILING TYPE BEFORE ORDERING	4,000	LED	1,000	60000	12	EACH	LED DRIVER	120	GOTHAM	#EVO6 40/10 DFR MVOLT EZ1	
W1	2' x 4' LED ACRYLIC LENSED PREMIUM TROFFER	TRAUMA	20 GA. STEEL HOUSING	#12 TRANSMISSIVE 0.125" LENS	HINGED AND LATCHED FROM EITHER SIDE, ENCLOSED SPRING LOADED CAM LATCH, WHITE REGRESSED ALUMINUM DOOR WITH MITERED CORNERS	PAINTED AFTER FABRICATION	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	11,100	72000	83	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2GTL 4 100L A12125 EZ1 LP840 ABC	
W1E	2' x 4' LED ACRYLIC LENSED PREMIUM TROFFER WITH BATTERY BACKUP	TRAUMA	20 GA. STEEL HOUSING	#12 TRANSMISSIVE 0.125" LENS	HINGED AND LATCHED FROM EITHER SIDE, ENCLOSED SPRING LOADED CAM LATCH, WHITE REGRESSED ALUMINUM DOOR WITH MITERED CORNERS	PAINTED AFTER FABRICATION	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	11,100	72000	83	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	LITHONIA	#2GTL 4 100L A12125 EZ1 LP840 ABC E10W	
X1	LED DECORATIVE RECESSED EDGE-LIT EXIT LIGHT, SINGLE FACE	EGRESS	20 GA. GALVANIZED STEEL, EXTRUDED ALUMINUM HOUSING	SATIN ALUMINUM TRIM PLATE, MOLDED TEXTURED LETTERS	N/A	6 INCH HIGH RED LETTERS ON MIRROR BACKGROUND, DIRECTIONAL CHEVRON INDICATORS AS REQUIRED	BACK / CEILING / END MOUNTING AS REQUIRED PER PLANS	0	LED	10	87600	3	EACH	N/A	120	LITHONIA	#LRP 1 RMR 120/277	
X2	LED DECORATIVE RECESSED EDGE-LIT EXIT LIGHT, DOUBLE FACE	EGRESS	20 GA. GALVANIZED STEEL, EXTRUDED ALUMINUM HOUSING	SATIN ALUMINUM TRIM PLATE, MOLDED TEXTURED LETTERS	N/A	6 INCH HIGH RED LETTERS ON MIRROR BACKGROUND, DIRECTIONAL CHEVRON INDICATORS AS REQUIRED	BACK / CEILING / END MOUNTING AS REQUIRED PER PLANS	0	LED	15	87600	3	EACH	N/A	120	LITHONIA	#LRP 2 RMR 120/277	

EXTERIOR ELECTRICAL LUMINAIRE FIXTURE SCHEDULE

TYPE	PHYSICAL DESCRIPTION						ELECTRICAL SPECIFICATIONS								MANUFACTURER INFORMATION		
	DESCRIPTION	LOCATION	HOUSING	REFLECTOR	SHIELDING	FINISH	MOUNTING	COLOR TEMP.	LAMP	LUMENS	HOURS	VA	UNITS	BALLAST / DRIVER	VOLTAGE	MANUFACTURER	CATALOG NUMBER	REMARKS
M3	6" LED DOWNLIGHT WITH 45 DEGREE CUT OFF	CANOPY	16 GA. GALVANIZED STEEL CONSTRUCTION	HIGH-IMPACT, FROSTED POLYCARBONATE LENS	LIGHT ENGINE AND DRIVER ACCESSIBLE THROUGH APERATURE	MATTE WHITE SELF-FLANGED, SEMI-SPECULAR FINISH	RECESSED GYPSUM BOARD OR LAY IN CEILING	4,000	LED	4,000	60000	15	EACH	LED DRIVER - LINEAR DIMMING 0-10V DOWN TO 1%	120	GOTHAM	#EVO6 40/40 AR LSS MWD MVOLT GZ10	
Z1	LED TRAPEZOIDAL WALL PACK WITH PHOTOCELL, WIDE DISTRIBUTION	EXTERIOR	DIE CAST ALUMINUM, DIE-CAST DOOR FRAME. WITH SOLID SILICONE GASKET, IP65	N/A	FULL CUTOFF	THERMOSET POWDER COAT FINISH, DARK BRONZE, CONFIRM WITH ARCHITECT	WALL MOUNTED, REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT	4,000	N/A	1,500	100000	11	EACH	LED DRIVER	120	LITHONIA	#WST LED P1 40K VW MVOLT PE DDBXD	

LIGHTING CONTROL SEQUENCE OF OPERATIONS

TAG	SPACE TYPES	CONTROL		MANUAL CONTROL / OVERRIDE	OCCUPANCY SENSOR		PHOTOCELL
		CONTROL DESCRIPTION	CONTROL SYSTEM TYPE	DURATION	DEVICE LOCATION	SET POINT	
1	PUBLIC AREAS, RECEPTION	MANUAL ON TO 100%, MANUAL OFF, DIMMING VIA MANUAL CONTROLS	STAND-ALONE	LINE VOLTAGE SWITCH; N/A	N/A	N/A	N/A
2	RESTROOMS/TOILET	AUTO ON TO 100%, AUTO OFF, MANUAL ON/OFF/DIM	STAND-ALONE	LINE VOLTAGE SWITCH; 20 MINUTES	DUAL-TECH WALL	AUTO ON/DIM; 20 MIN SET POINT	N/A
3	ENCLOSED ROOMS (SMALL OFFICE, NOURISH, SUPPORT, ETC)	AUTO ON TO 50%, MANUAL ON TO 100%/OFF/DIM, AUTO OFF	STAND-ALONE	LINE VOLTAGE SWITCH; 20 MINUTES	DUAL-TECH WALL	AUTO ON 50%, AUTO OFF; 20 MIN SET POINT	CEILING MOUNTED IN DAYLIGHT ZONES OVER 150W, 1 MIN FAD RATE
4	EXAM RMS, NURSE STATION, CORRIDORS	MANUAL ON TO 100%, MANUAL OFF, DIMMING VIA MANUAL CONTROLS	STAND-ALONE	LINE VOLTAGE SWITCH; N/A	N/A	N/A	N/A
5	ENCLOSED ROOMS (LARGE OFFICE, BREAK, SUPPORT, ETC)	AUTO ON TO 50%, MANUAL ON TO 100%/OFF/DIM, AUTO OFF	STAND-ALONE	LOW VOLTAGE SWITCH; 20 MINUTES	DUAL-TECH CEILING	AUTO ON 50%, AUTO OFF; 20 MIN SET POINT	CEILING MOUNTED IN DAYLIGHT ZONES OVER 150W, 1 MIN FAD RATE
6	EXTERIOR CANOPIES	PHOTOCELL 100% ON AT DUSK, TIME-CLOCK DIM AT DAWN	LIGHTING CONTROL PANEL	N/A	N/A	N/A	CANOPY MOUNTED
7	ELEC/MECH/COMM RMS	MANUAL 'ON' TO 100%, MANUAL 'OFF'	STAND-ALONE	LINE VOLTAGE SWITCH; N/A	N/A	N/A	N/A

DEMAND FACTOR TABLE

LOAD TYPES	FACTORS										NEC REFERENCE
LIGHTS	1.00										220.42
RECEPTACLES	0-10kVA	>10kVA									
	1.00	0.50									220.44
MOTORS	MAX	ALL OTHERS									
	1.25	1.00									220.50 & 430.24
HOSPITAL	0-50kVA	>50kVA									
	0.40	0.20									220.42 & 220.44
X-RAY	1 PIECE OF EQUIPMENT		OVER 1 PIECE OF EQUIPMENT								
	1		1	2	3 or more						
	1.00		0.50	0.25	0.10						517.73(2)
ELEVATOR	1	2	3	4	5	6	7	8	9	10 or more	
	1.00	0.95	0.9	0.85	0.82	0.79	0.77	0.75	0.73	0.72	620.14
KITCHEN	1	2	3	4	5	6 or more					
	1.00	1.00	0.90	0.80	0.70	0.65					220.56
HEAT	1.00										220.51
MISCELLANEOUS	1.00										210.19

MOTOR SCHEDULE
480 VOLT 3 PHASE

MOTOR TAG	HP	FLA	CB	FEEDER DESCRIPTION
5.M	5	7.6	15	3#12, 1#12 G, 3/4" C
7.5.M	7-1/2	11	20	3#12, 1#12 G, 3/4" C
10.M	10	14	25	3#12, 1#10 G, 3/4" C
15.M	15	21	40	3#10, 1#10 G, 3/4" C
20.M	20	27	50	3#8, 1#10 G, 3/4" C
25.M	25	34	60	3#6, 1#10 G, 3/4" C
30.M	30	40	70	3#6, 1#8 G, 3/4" C
40.M	40	52	100	3#4, 1#8 G, 1" C
50.M	50	65	125	3#3, 1#6 G, 1-1/4" C
60.M	60	77	150	3#1, 1#6 G, 1 1/4" C
75.M	75	96	175	3#1, 1#6 G, 1 1/4" C
100.M	100	124	225	3#2/0, 1#4 G, 2" C
125.M	125	156	300	3#3/0, 1#4 G, 2" C
150.M	150	180	350	3#4/0, 1 #3 G, 2" C
200.M	200	240	450	3#350KCM, 1#2 G, 2-1/2" C

COPPER FEEDER SCHEDULE
600V MAX.

FEEDER TAG & AMPERE RATING	FEEDER DESCRIPTION
15.3, 20.3 15.4, 20.4	3#12, 1#12 G, 3/4" C 3#12, 1#12 N, 1#12 G, 3/4" C
25.3, 30.3 25.4, 30.4	3#10, 1#10 G, 3/4" C 3#10, 1#10 N, 1#10 G, 3/4" C
35.3, 40.3 35.4, 40.4	3#8, 1#10 G, 3/4" C 3#8, 1#8 N, 1#10 G, 3/4" C
45.3, 50.3 45.4, 50.4	3#6, 1#10 G, 3/4" C 3#6, 1#6 N, 1#10 G, 1" C
60.3 60.4	3#4, 1#10 G, 1" C 3#4, 1#4 N, 1#10 G, 1 1/4" C
70.3 70.4	3#4, 1#8 G, 1" C 3#4, 1#4 N, 1#8 G, 1-1/4" C
80.3 80.4	3#3, 1#8 G, 1-1/4" C 3#3, 1#3 N, 1#8 G, 1-1/4" C
90.3 90.4	3#2, 1#8 G, 1-1/4" C 3#2, 1#2 N, 1#8 G, 1-1/4" C
100.3 100.4	3#1, 1#8 G, 1-1/4" C 3#1, 1#1 N, 1#8 G, 1-1/2" C
110.3 110.4	3#1, 1#6 G, 1-1/4" C 3#1, 1#1 N, 1#6 G, 1-1/2" C
125.3, 150.3 125.4, 150.4	3#1/0, 1#6 G, 1-1/2" C 3#1/0, 1#1/0 N, 1#6 G, 2" C
175.3 175.4	3#2/0, 1#6 G, 2" C 3#2/0, 1#2/0 N, 1#6 G, 2" C
200.3 200.4	3#3/0, 1#6 G, 2" C 3#3/0, 1#3/0 N, 1#6 G, 2" C
225.3 225.4	3#4/0, 1#4 G, 2" C 3#4/0, 1#4/0 N, 1#4 G, 2-1/2" C
250.3 250.4	3#250KCM, 1#4 G, 2-1/2" C 3#250KCM, 1-250KCM N, 1#4 G, 2-1/2" C
300.3 300.4	3#350KCM, 1#4 G, 2-1/2" C 3#350KCM, 1-350KCM N, 1#4 G, 3" C
350.3 350.4	3#500KCM, 1#3 G, 3" C 3#500KCM, 1-500KCM N, 1#3 G, 3-1/2" C
400.3 400.4	2 SETS EACH OF [3#3/0, 1#3 G, 2" C] 2 SETS EACH OF [3#3/0, 1#3/0 N, 1#3 G, 2-1/2" C]
450.3 450.4	2 SETS EACH OF [3#4/0, 1#2 G, 2" C] 2 SETS EACH OF [3#4/0, 1#4/0 N, 1#2 G, 2-1/2" C]
500.3 500.4	2 SETS EACH OF [3#250KCM, 1#2 G, 2-1/2" C] 2 SETS EACH OF [3#250KCM, 1#250KCM N, 1#2 G, 2-1/2" C]
600.3 600.4	2 SETS EACH OF [3#350KCM, 1#1 G, 2-1/2" C] 2 SETS EACH OF [3#350KCM, 1#350KCM N, 1#1 G, 3" C]
700.3 700.4	2 SETS EACH OF [3#500KCM, 1#1/0 G, 3" C] 2 SETS EACH OF [3#500KCM, 1#500KCM N, 1#1/0 G, 3-1/2" C]
800.3 800.4	3 SETS EACH OF [3#300KCM, 1#1/0 G, 3" C] 3 SETS EACH OF [3#300KCM, 1#300KCM N, 1#1/0 G, 3" C]
900.3 900.4	3 SETS EACH OF [3#350KCM, 1#2/0 G, 3" C] 3 SETS EACH OF [3#350KCM, 1#350KCM N, 1#2/0 G, 3" C]
1000.3 1000.4	3 SETS EACH OF [3#400KCM, 1#2/0 G, 3" C] 3 SETS EACH OF [3#400KCM, 1#400KCM N, 1#2/0 G, 3" C]
1200.3 1200.4	4 SETS EACH OF [3#350KCM, 1#3/0 G, 3" C] 4 SETS EACH OF [3#350KCM, 1#350KCM N, 1#3/0 G, 3" C]
1400.3 1400.4	4 SETS EACH OF [3#500KCM, 1#4/0 G, 3" C] 4 SETS EACH OF [3#500KCM, 1#500KCM N, 1#4/0 G, 3-1/2" C]
1600.3 1600.4	5 SETS EACH OF [3#400KCM, 1#4/0 G, 3" C] 5 SETS EACH OF [3#400KCM, 1#400KCM N, 1#4/0 G, 3" C]
2000.3 2000.4	6 SETS EACH OF [3#400KCM, 1#250KCM G, 3" C] 6 SETS EACH OF [3#400KCM, 1#400KCM N, 1#250KCM G, 3" C]
2500.3 2500.4	7 SETS EACH OF [3#500KCM, 1#350KCM G, 3-1/2" C] 7 SETS EACH OF [3#500KCM, 1#500KCM N, 1#350KCM G, 3-1/2" C]
3000.3 3000.4	8 SETS EACH OF [3#500KCM, 1#400KCM G, 3" C] 8 SETS EACH OF [3#500KCM, 1#500KCM N, 1#400KCM G, 3-1/2" C]
4000.3 4000.4	11 SETS EACH OF [3#500KCM, 1#500KCM G, 3-1/2" C] 11 SETS EACH OF [3#500KCM, 1#500KCM N, 1#500KCM G, 3-1/2" C]

Devenney GROUP

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KANSAS CITY, MO 64105

STATE OF MISSOURI
ANDY SUAN WHEELER
NUMBER PE-2017000125
PROFESSIONAL ENGINEER

06/05/2025
WSP USA Buildings Inc. 2013001681

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05

DATE:	04/18/25
SCALE:	N.T.S.
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

SCHEDULES - ELECTRICAL

E08-01

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://[6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC ED Expansion_R23.rvt
6/20/2025 10:29:04 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:16

NEW: H1CIP8A

LOCATION: TRAUMA 01-13
PRIMARY VOLTAGE: 120 V
AIC: 10,000 A
NUMBER OF PHASES: 2

FED FROM: HCPDPCH1
SECONDARY OCPD 'A': 80 A
TRANSFORMER KVA 'A': 7.5
SECONDARY VOLTAGE 'A': 120 V
SECONDARY WIRE 'A': 2W + G

ENCLOSURE: NEMA 1
MOUNTING: RECESSED
GROUND BUS: YES
BUS TYPE: COPPER

NEW: H1NIP8B

LOCATION: TRAUMA 01-13
PRIMARY VOLTAGE: 120 V
AIC: 10,000 A
NUMBER OF PHASES: 2

FED FROM: HCPDPNH1
SECONDARY OCPD 'B': 80 A
TRANSFORMER KVA 'B': 7.5
SECONDARY VOLTAGE 'B': 120 V
SECONDARY WIRE 'B': 2W+G

ENCLOSURE: NEMA 1
MOUNTING: RECESSED
GROUND BUS: YES
BUS TYPE: COPPER

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES		CIRCUIT BREAKER AMPS / POLES		TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	LGHT - TRAUMA 01-13	300	20	2	2	20 A	360	RCPT - TRAUMA 01-13	1
2	RCPT - TRAUMA 01-13	540	20	2	2	20 A	540	RCPT - TRAUMA 01-13	2
3	RCPT - TRAUMA 01-13	540	20	2	2	20 A	360	RCPT - TRAUMA 01-13	3
4	RCPT - TRAUMA 01-13	360	20	2	2	20 A	360	RCPT - TRAUMA 01-13	4
5	RCPT - TRAUMA 01-13	360	20	2	--	20 A	--	SPARE	5
6	JB - CLOCK - TRAUMA 01-13	200	20	2	--	20 A	--	SPARE	6
7	RCPT - TRAUMA 01-13	360	20	2	--	20 A	--	SPARE	7
8	RCPT - C-ARM - TRAUMA 01-13	180	20	2	--	20 A	--	SPARE	8
9	RCPT - WARMER - TRAUMA 01-13	840	20	2	--	20 A	--	SPARE	9
10	RCPT - MEDS - TRAUMA 01-13	500	20	2	--	20 A	--	SPARE	10
11	RCPT - CC - TRAUMA 01-13	180	20	2	--	20 A	--	SPARE	11
12	RCPT - TRAUMA 01-13	360	20	2	--	20 A	--	SPARE	12
13	RCPT - MAYO - TRAUMA 01-13	180	20	2	--	20 A	--	SPARE	13
14	SPARE	--	20	--	--	20 A	--	SPARE	14
15	SPARE	--	20	--	--	20 A	--	SPARE	15
16	SPARE	--	20	--	--	20 A	--	SPARE	16

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	
RCPT	4,400	4,400			RCPT	1,980	1,980		
MISC	500	500	TOTAL CONN. LOAD:	4.9 kVA				TOTAL CONN. LOAD:	2.0 kVA
			TOTAL EST. DEMAND:	4.9 kVA				TOTAL EST. DEMAND:	2.0 kVA
			TOTAL CONN.:	40.8 A				TOTAL CONN.:	16.5 A
			TOTAL EST. DEMAND:	40.8 A				TOTAL EST. DEMAND:	16.5 A

'A' NOTES:

'B' NOTES:

NEW: H1NLD

NORMAL

LOCATION: ELEC 01-11
MAIN BUS: 225 A
MCB: 150A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: 2,539 A
AIC RATING: 10000 A

FED FROM: H1DPNL1
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MCB
NUMBER OF SECTIONS: 2

NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: YES
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A	B	C	CIRCUIT BREAKER POLES /...		TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20	1			1	20	1,080	RCPT - NURSE WORK 1-1454	2
3	EXISTING LOAD	--	20	1			1	20	1,020	RCPT - EXAM 1 1-1409	4
5	RCPT - EXAM 22 1-1408	1,020	20	1			1	20	--	EXISTING LOAD	6
7	RCPT - SOILED 1-1458	900	20	1			1	20	1,100	RCPT - NOURISH 1-1457	8
9	RCPT - NOURISH 1-1457	900	20	1			1	20	360	RCPT - CORRIDOR-3 1-1417	10
11	EXISTING LOAD	--	20	1			1	20	900	RCPT - NURSE STATION 01-14	12
13	RCPT - NURSE STATION 1-1448	360	20	1			1	20	360	RCPT - CORRIDOR-9 1-1405	14
15	RCPT - EMS 1-1424	720	20	1			1	20	--	SPARE	16
17	RCPT - EMS 1-1424	900	20	1			1	20	--	EXISTING LOAD	18
19	RCPT - EMS 1-1424	1,100	20	1			1	20	--	EXISTING LOAD	20
21	RCPT - CORRIDOR 1-1447	540	20	1			1	20	--	EXISTING LOAD	22
23	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	24
25	RCPT - EXAM 20 1-1450	1,020	20	1			1	20	--	EXISTING LOAD	26
27	RCPT - EXAM 21 1-1451	1,020	20	1			1	20	--	EXISTING LOAD	28
29	RCPT - SHARED OFFICE 1-1452	360	20	1			1	20	--	EXISTING LOAD	30
31	RCPT - STAFF LOUNGE 1-1406	1,080	20	1			1	20	--	SPARE	32
33	RCPT - STAFF LOUNGE 1-1406	1,100	20	1			1	20	--	SPARE	34
35	RCPT - STAFF LOUNGE 1-1406	900	20	1			1	20	--	SPARE	36
37	RCPT - RECEPTION 1-1404	720	20	1			1	20	--	SPARE	38
39	LGHT - ED CORRIDOR	1,143	20	1			1	20	--	SPARE	40
41	LGHT - ED CORE	388	20	1			1	20	--	SPARE	42
43	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	44
45	RCPT - WAITING 1-1403	1,260	20	1			1	20	--	EXISTING LOAD	46
47	EXISTING LOAD	--	20	1			1	20	--	SPARE	48
49	EXISTING LOAD	--	20	1			1	20	--	SPARE	50
51	EXISTING LOAD	--	20	1			1	20	--	SPARE	52
53	LGHT - CANOPY	90	20	1			1	20	--	SPARE	54
55	EXISTING LOAD	--	20	1			1	20	--	SPARE	56
57	EXISTING LOAD	--	20	1			1	20	--	SPARE	58
59	EXISTING LOAD	--	20	1			1	20	--	SPARE	60
61	EXISTING LOAD	--	20	1			1	20	--	SPARE	62
63	SPARE	--	20	1			1	20	--	SPARE	64
65	SPARE	--	20	1			1	20	--	SPARE	66
67	SPARE	--	20	1			1	20	--	SPARE	68
69	SPARE	--	20	1			1	20	--	EXISTING LOAD	70
71	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	72
73	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	74
75	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	76
77	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	78
79	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	80
81	EXISTING LOAD	--	20	1			1	20	--	SPARE	82
83	SPARE	--	20	1			1	20	--	SPARE	84

68 A / 71 A / 38 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
LGHT	1,621	2,026			
RCPT	18,720	14,360	EXISTING CONNECTED LOAD:	31.4	87.1
			REMOVED CONNECTED LOAD:	15.4	42.7
			ADDED CONNECTED LOAD:	20.3	56.5
			TOTAL CONNECTED LOAD:	36.4	100.9
			TOTAL ESTIMATED DEMAND:	32.4	89.9

NOTES: EXISTING LOAD BASED ON 30-DAY METERED LOAD x 1.25 FROM 01/17/2025 - 02/16/2025.

NEW: H1CLD

CRITICAL

LOCATION: ELEC 01-11
MAIN BUS: 225 A
MCB: 150A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: 2,644 A
AIC RATING: 10000 A

FED FROM: H1DPCL1
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MCB
NUMBER OF SECTIONS: 2

NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: YES
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A	B	C	CIRCUIT BREAKER POLES /...		TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	RCPT - ALCOVE 1-1416	540	20	1			1	20	--	EXISTING LOAD	2
3	RCPT - NURSE WORK 1-1454	900	20	1			1	20	--	EXISTING LOAD	4
5	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	6
7	RCPT - EXAM 1 1-1409	840	20	1			1	20	--	EXISTING LOAD	8
9	RCPT - EXAM 1 1-1409	1,080	20	1			1	20	--	EXISTING LOAD	10
11	RCPT - EXAM 1-1408	840	20	1			1	20	--	EXISTING LOAD	12
13	RCPT - EXAM 1-1408	1,080	20	1			1	20	--	EXISTING LOAD	14
15	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	16
17	RCPT - EXAM 20 1-1450	840	20	1			1	20	--	EXISTING LOAD	18
19	RCPT - EXAM 20 1-1450	1,080	20	1			1	20	--	EXISTING LOAD	20
21	RCPT - EXAM 21 1-1451	840	20	1			1	20	1,080	RCPT - NURSE STATION 1-1448	22
23	RCPT - EXAM 21 1-1451	1,080	20	1			1	20	360	RCPT - NURSE STATION 1-1448	24
25	RCPT - NOURISH 1-1457	800	20	1			1	20	540	RCPT - NURSE STATION 1-1448	26
27	RCPT - NOURISH 1-1457	1,200	20	1			1	20	1,080	RCPT - NURSE STATION 1-1448	28
29	RCPT - STAFF LOUNGE 1-1406	1,200	20	1			1	20	1,080	RCPT - CLEAN/NURSE STATION 1-1448,...	30
31	RCPT - STAFF LOUNGE 1-1406	1,200	20	1			1	20	720	RCPT - SHARED OFFICE 1-1452	32
33	RCPT - EMS 1-1424	180	20	1			1	20	720	RCPT - SHARED OFFICE 1-1452	34
35	RCPT - EMS 1-1424	1,200	20	1			1	20	--	EXISTING LOAD	36
37	RCPT - STORAGE ALCOVE 1-1421	1,080	20	1			1	20	--	EXISTING LOAD	38
39	RCPT - WAITING KIOSK 1-1403	180	20	1			1	20	--	EXISTING LOAD	40
41	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	42
43	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	44
45	EXISTING LOAD	--	20	1			1	20	360	RCPT - RECEPTION 01-25, 01-26	46
47	EXISTING LOAD	--	20	1			1	25	1,119	LGHT - ED CORE	48
49	EXISTING LOAD	--	20	1			1	20	500	ED SIGN	50
51	EXISTING LOAD	--	20	1			1	20	500	ED SPARE	52
53	EXISTING LOAD	--	20	1			1	20	1,080	RCPT - RECEPTION 01-25, 01-26	54
55	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	56
57	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	58
59	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	60
61	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	62
63	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	64
65	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	66
67	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	68
69	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	70
71	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	72
73	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	74
75	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	76
77	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	78
79	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	80
81	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	82
83	EXISTING LOAD	--	20	1			1	20	--	EXISTING LOAD	84

70 A / 68 A / 74 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
LGHT	1,119	1,399			
MISC	1,000	1,000	EXISTING CONNECTED LOAD:	26.9	74.7
RCPT	23,180	16,590	REMOVED CONNECTED LOAD:	9	24.9
			ADDED CONNECTED LOAD:	25.3	70.2
			TOTAL CONNECTED LOAD:	43.2	120
			TOTAL ESTIMATED DEMAND:	36.9	102.5

NOTES: EXISTING LOAD BASED ON 30-DAY METERED LOAD x 1.25 FROM 01/17/2025 - 02/16/2025.
PROVIDE 96 POLES IN TOTAL. ADDITIONAL 12 POLES FOR INTERNAL SPD.

NEW: H1NLJ

NORMAL

LOCATION: ELEC 01-11
MAIN BUS: 225 A
MCB: 150A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: 2,576 A
AIC RATING: 10000 A

FED FROM: H1DPNL1
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MCB
NUMBER OF SECTIONS: 2

NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: YES
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A	B	C	CIRCUIT BREAKER POLES /...		TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	RCPT - EXAM 19 1-1439	1,020	20	1			1	20	1,020	RCPT - EXAM 9 1-1426	2
3	RCPT - MEDS 1-1443	900	20	1			1	20	720	RCPT - CORRIDOR/NS 1-1441B, 1442	4
5	RCPT - EXAM 10 1-1427	1,020	20	1			1	20	360	RCPT - EXTERIOR	6
7	RCPT - ALCOVE 1-1428	900	20	1			1	20	1,080	RCPT - A.I.I. EXAM-11 1-1430	8
9	RCPT - A.I.I. EXAM-11 1-1430	1,080	20	1			1	20	180	RCPT - CORRIDOR 1-1441A	10
11	RCPT - NURSE STATION 1-1442	360	20	1			1	20	900	RCPT - NURSE STATION 1-1442	12
13	RCPT - TRIAGE 1 1-1438	540	20	1			1	20	1,020	RCPT - EXAM 18 1-1437	14
15	RCPT - BARIATRIC EXAM 17 1-1436	900	20	1			1	20	900	RCPT - EXAM 16 1-1435	16
17	RCPT - EXAM 15 1-1434	1,020	20	1			1	20	1,020	RCPT - EXAM 14 1-1433	18
19	RCPT - EXAM 13 1-1432	1,020	20	1			1	20	1,020	RCPT - EXAM 12 1-1431	20
21	RCPT - IT 01-61	720	20	1			1	20	394	LGHT - ED CORE	22
23	RCPT - TVJ - IT 01-61	180	20	1			1	20	451	LGHT - ED CORRIDOR	24
25	RCPT - TVJ - IT 01-61	180	20	1			1	20	--	SPARE	26
27	RCPT - LEVEL 2 ROOF	360	20	1			1	20	--	SPARE	28
29	SPARE	--	20	1			1	20	--	SPARE	30
31	SPARE	--	20	1			1	20	--	SPARE	32
33	SPARE	--	20	1			1	20	--	SPARE	34
35	SPARE	--	20	1			1	20	--	SPARE	36
37	SPARE	--	20	1			1	20	--	SPARE	38
39	SPARE	--	20	1			1	20	--	SPARE	40
41	SPARE	--	20	1			1	20	--	SPARE	42
43	SPARE	--	20	1			1	20	--	SPARE	44
45	SPARE	--	20	1			1	20	--	SPARE	46
47	SPARE	--	20	1			1	20	--	SPARE	48
49	SPARE	--	20	1			1	20	--	SPARE	50
51	SPARE	--	20	1			1	20	--	SPARE	52
53	SPARE	--	20	1			1	20	--	SPARE	54
55	SPARE	--	20	1			1	20	--	SPARE	56
57	SPARE	--	20	1			1	20	--	SPARE	58
59	SPARE	--	20	1			1	20	--	SPARE	60
61	SPARE	--	20	1			1	20	--	SPARE	62
63	SPARE	--	20	1			1	20	--	SPARE	64
65	SPARE	--	20	1			1	20	--	SPARE	66
67	SPARE	--	20	1			1	20	--	SPARE	68
69	SPARE	--	20	1			1	20	--	SPARE	70
71	SPARE	--	20	1			1	20	--	SPARE	72
73	SPARE	--	20	1			1	20	--	SPARE	74
75	SPARE	--	20	1			1	20	--	SPARE	76
77	SPARE	--	20	1			1	20	--	SPARE	78
79	SPARE	--	20	1			1	20	--	SPARE	80
81	SPARE	--	20	1			1	20	--	SPARE	82
83	SPARE	--	20	1			1	20	--	SPARE	84

66 A / 52 A / 44 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
LGHT	845	1,056			
RCPT	18,420	14,210			
			TOTAL CONNECTED LOAD:	19.3	53.5
			TOTAL ESTIMATED DEMAND:	15.3	42.4

NOTES:

NEW: H1CLJ

CRITICAL

LOCATION: ELEC 01-11
MAIN BUS: 225 A
MCB: 150A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: 2,659 A
AIC RATING: 10000 A

FED FROM: H1DPCL1
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MCB
NUMBER OF SECTIONS: 2

NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: YES
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES	A	B	C	CIRCUIT BREAKER POLES /...		TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	RCPT - ALCOVES 1-1440, 1446	540	20	1			1	20	180	RCPT - ALCOVE CC 1-1446	2
3	RCPT - ALCOVE WRMR 1-1446	1,600	20	1			1	20	840	RCPT - EXAM 9 1-1426	4
5	RCPT - EXAM 9 1-1426	900	20	1			1	20	1,080	RCPT - EXAM 10 1-1427	6
7	RCPT - EXAM 10 1-1427	900	20	1			1	20	360	RCPT - MEDS 1-1443	8
9	RCPT - MEDS 1-1443	360	20	1			1	20	1,000	RCPT - MEDS 1-1443	10
11	RCPT - MEDS 1-1443	360	20	1			1	20	360	RCPT - MEDS 1-1443	12
13	RCPT - NURSE STATION 1-1442	900	20	1			1	20	1,440	RCPT - NURSE STATION 1-1442	14
15	RCPT - NURSE STATION CC 1-1442	180	20	1			1	20	180	RCPT - NURSE STATION COPY 1-1442	16
17	RCPT - TRIAGE 1 1-1438	720	20	1			1	20	1,080	RCPT - NURSE STATION 1-1442	18
19	RCPT - EXAM 19 1-1439	900	20	1			1	20	1,080	RCPT - EXAM 19 1-1439	20
21	RCPT - EXAM 18 1-1437	900	20	1			1	20	1,080	RCPT - EXAM 18 1-1437	22
23	RCPT - BARIATRIC EXAM 17 1-1436	1,020	20	1			1	20	720	RCPT - BARIATRIC EXAM 17 1-1436	24
25	RCPT - EXAM 16 1-1435	900	20	1			1	20	840	RCPT - EXAM 16 1-1435	26
27	RCPT - EXAM 15 1-1434	900	20	1			1	20	840	RCPT - EXAM 15 1-1434	28
29	RCPT - EXAM 14 1-1433	900	20	1			1	20	840	RCPT - EXAM 14 1-1433	30
31	RCPT - EXAM 13 1-1432	900	20	1			1	20	840	RCPT - EXAM 13 1-1432	32
33	RCPT - EXAM 12 1-1431	900	20	1			1	20	840	RCPT - EXAM 12 1-1431	34
35	JBOX - DECONTAM 1-1429	200	20	1			1	20	540	RCPT - A.I.I. EXAM-11 1-1430	36
37	RCPT - A.I.I. EXAM-11 1-1430	900	20	1			1	20	360	RCPT - CORRIDOR-8 1-1441	38
39	RCPT - CORRIDOR-7 1-1441A	360	20	1			1	20	1,442	LGHT - ED	40
41	RCPT - ELEC 1-1422	180	20	1			1	20	812	LGHT - ED	42
43	RCPT - IT 01-61	180	20	1			1	20	180	RCPT - IT 01-61	44
45	RCPT - IT 01-61	180	20	1			1	20	180	RCPT - IT 01-61	46
47	RCPT - IT 01-61	1,200	30	2			2	30	1,200	RCPT - IT 01-61	48
49	--	--	--	--			--	--	--	--	50
51	RCPT - IT 01-61	1,200	30	2			2	30	1,200	RCPT - IT 01-61	52
53	--	--	--	--			--	--	--	--	54
55	RCPT - DAS - IT 01-61	180	20	1			1	20	180	RCPT - ACP - IT 01-61	56
57	RCPT - ACP - IT 01-61	180	20	1			1	20	180	RCPT - AMP - IT 01-61	58
59	RCPT TRIAGE 1 1-1438	720	20	1			1	20	--	SPARE	60
61	SPARE	--	20	1			1	20	--	SPARE	62
63	SPARE	--	20	1			1	20	--	SPARE	64
65	SPARE	--	20	1			1	20	--	SPARE	66
67	SPARE	--	20	1			1	20	--	SPARE	68
69	SPARE	--	20	1			1	20	--	SPARE	70
71	SPARE	--	20	1			1	20	--	SPARE	72
73	SPARE	--	20	1			1	20	--	SPARE	74
75	SPARE	--	20	1			1	20	--	SPARE	76
77	SPARE	--	20	1			1	20	--	SPARE	78
79	SPARE	--	20	1			1	20	--	SPARE	80
81	SPARE	--	20	1			1	20	--	SPARE	82
83	SPARE	--	20	1			1	20	--	SPARE	84

108 A / 112 A / 105 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
LGHT	2,254	2,817			
MISC	200	200			
RCPT	36,440	23,220			
			TOTAL CONNECTED LOAD:	38.9	108
			TOTAL ESTIMATED DEMAND:	26.2	72.8

NOTES: PROVIDE 96 POLES IN TOTAL. ADDITIONAL 12 POLES FOR INTERNAL SPD.

H1CIP8	H1NLD	H1CLD
	H1NLJ	H1CLJ

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STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017040125
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

IF THESE PLANS DO NOT BEAR THE SEAL OF A REGISTRANT, THEY ARE TO BE CONSIDERED "PRELIMINARY" AND ARE NOT TO BE USED FOR CONSTRUCTION OR RECORDING. THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN "ARCHITECTURAL WORK" UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO THE OVERALL FORM AS WELL AS THE ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF THE DESIGN. UNDER SUCH PROTECTION, UNAUTHORIZED USE OF THESE PLANS CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDINGS BEING SEIZED AND/OR MONETARY COMPENSATION TO DEVENNEY GROUP LTD.

ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

SCHEDULES - ELECTRICAL

E08-02

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.
Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP_LSMC

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:16

EXIST: HMQLA

LOCATION: MECH 2-ME1211
MAIN BUS: 100 A
MCB: 60A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: 1,304 A
AIC RATING: 10000 A

FED FROM: THMQLA
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MCB
NUMBER OF SECTIONS: 1

EQUIPMENT

NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: YES
POLES PER SECTION: 24

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES		A	B	C	CIRCUIT BREAKER POLES /...		TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20	1	■			**1**	**20**	**500**	**AHU-1 LIGHTS**	**2**
3	EXISTING LOAD	--	20	1		■		**1**	**20**	**500**	**AHU-1 UV LIGHTS**	**4**
5	EXISTING LOAD	--	20	1			■	1	20	--	EXISTING LOAD	6
7	**PHP-1**	**828**	**20**	**1**	■			1	20	--	EXISTING LOAD	8
9	EXISTING LOAD	--	20	1		■		1	20	--	EXISTING LOAD	10
11	EXISTING LOAD	--	20	1			■	1	20	--	EXISTING LOAD	12
13	SPACE	--	--	1	■			3	30	--	EXISTING LOAD	14
15	SPACE	--	--	1		■		--	--	--	--	16
17	SPACE	--	--	1			■	--	--	--	--	18
19	SPACE	--	--	1	■			1	--	--	SPACE	20
21	SPACE	--	--	1		■		1	--	--	SPACE	22
23	SPACE	--	--	1			■	1	--	--	SPACE	24

12 A / 5 A / 0 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
MISC	1,000	1,000			
MTRS	828	1,035	EXISTING CONNECTED LOAD:	32.6	90.5
			REMOVED CONNECTED LOAD:	2.6	7.2
			ADDED CONNECTED LOAD:	1.8	5.1
			TOTAL CONNECTED LOAD:	31.9	88.4
			TOTAL ESTIMATED DEMAND:	32.1	89

NOTES: EXISTING LOAD BASED ON 30-DAY METERED LOAD x 1.25 FROM 01/17/2025 - 02/16/2025.

EXIST: HCPLLB

LOCATION: ICU ELEC RM
MAIN BUS: 225 A
MCB: 100A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: 1,477 A
AIC RATING: 10000 A

FED FROM: TH1LLB
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SUFACE
PANEL LUGS: MCB
NUMBER OF SECTIONS: 1

NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: NO
POLES PER SECTION: 60

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES		A	B	C	CIRCUIT BREAKER POLES /...		TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20	1	■			1	20	--	EXISTING LOAD	2
3	EXISTING LOAD	--	20	1		■		1	20	--	EXISTING LOAD	4
5	**JBOX - AAP CORRIDOR 1-1441**	**200**	**20**	**1**			■	**1**	**20**	**200**	**JBOX - AAP CORRIDOR 1-1417**	6
7	**JBOX - FSD CORRIDOR 1-1447**	**500**	**20**	**1**	■			**1**	**20**	**400**	**JBOX - AUTO DOOR CORR 1-1407, 1447**	8
9	**AUTODOOR - CORRIDOR-1 01-49**	**200**	**20**	**1**		■		**1**	**20**	**400**	**JBOX - AUTO DOOR ENTRY 1-1400**	10
11	SPARE	--	20	1			■	**1**	**20**	**823**	**LGHT - ED**	12
13	SPARE	--	20	1	■			1	20	--	SPARE	14
15	SPARE	--	20	1		■		1	20	--	SPARE	16
17	SPARE	--	20	1			■	1	20	--	SPARE	18
19	SPARE	--	20	1	■			1	20	--	SPARE	20
21	SPARE	--	20	1		■		1	20	--	SPARE	22
23	SPARE	--	20	1			■	1	20	--	SPARE	24
25	SPARE	--	20	1	■			1	20	--	SPARE	26
27	SPARE	--	20	1		■		1	20	--	SPARE	28
29	SPARE	--	20	1			■	1	20	--	SPARE	30
31	SPARE	--	20	1	■			1	20	--	SPARE	32
33	SPARE	--	20	1		■		1	20	--	SPARE	34
35	SPARE	--	20	1			■	1	20	--	SPARE	36
37	SPARE	--	20	1	■			1	20	--	SPARE	38
39	SPARE	--	20	1		■		1	20	--	SPARE	40
41	SPARE	--	20	1			■	1	20	--	SPARE	42
43	SPARE	--	20	1	■			1	20	--	SPARE	44
45	SPARE	--	20	1		■		1	20	--	SPARE	46
47	SPARE	--	20	1			■	1	20	--	SPARE	48
49	SPARE	--	20	1	■			1	20	--	SPARE	50
51	SPARE	--	20	1		■		1	20	--	SPARE	52
53	SPARE	--	20	1			■	1	20	--	SPARE	54
55	EXISTING LOAD	--	30	3	■			1	20	--	SPARE	56
57	--	--	--	--		■		1	20	--	SPARE	58
59	--	--	--	--			■	1	20	--	SPARE	60

8 A / 5 A / 11 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
LGHT	823	1,029			
MISC	1,900	1,900	EXISTING CONNECTED LOAD:	2	5.7
			REMOVED CONNECTED LOAD:	0	0
			ADDED CONNECTED LOAD:	2.7	7.6
			TOTAL CONNECTED LOAD:	4.8	13.2
			TOTAL ESTIMATED DEMAND:	5	13.8

NOTES: EXISTING LOAD BASED ON DESIGN LOADS FROM 2022 ICU EXPANSION PROJECT.

EXIST: H1QLA

LOCATION: ELEC 1-ME1434
MAIN BUS: 250 A
MCB: 250A
VOLTAGE: 120/208 WYE
AIC AVAILABLE: 4,505 A
AIC RATING: 10000 A

FED FROM: TH1QLA
WIRES: 4W + G
ENCLOSURE: NEMA 1
BUS TYPE: COPPER
MOUNTING: SURFACE
PANEL LUGS: MCB
NUMBER OF SECTIONS: 1

EQUIPMENT

NEUTRAL BUS: YES
GROUND BUS: YES
ISOLATED GROUND BUS: NO
200% NEUTRAL: NO
FEED THROUGH LUGS: YES
POLES PER SECTION: 42

CKT NO.	DESCRIPTION	TOTAL LOAD (VA)	CIRCUIT BREAKER AMPS / POLES		A	B	C	CIRCUIT BREAKER POLES /...		TOTAL LOAD (VA)	DESCRIPTION	CKT NO.
1	EXISTING LOAD	--	20	1	■			1	20	--	EXISTING LOAD	2
3	EXISTING LOAD	--	20	1		■		1	20	--	EXISTING LOAD	4
5	EXISTING LOAD	--	20	1			■	1	20	--	EXISTING LOAD	6
7	EXISTING LOAD	--	20	1	■			1	20	--	EXISTING LOAD	8
9	EXISTING LOAD	--	20	1		■		1	20	--	EXISTING LOAD	10
11	EXISTING LOAD	--	20	1			■	1	20	--	SPARE	12
13	SPARE	--	20	1	■			1	20	--	EXISTING LOAD	14
15	EXISTING LOAD	--	20	1		■		1	20	--	EXISTING LOAD	16
17	EXISTING LOAD	--	20	1			■	1	20	--	EXISTING LOAD	18
19	EXISTING LOAD	--	20	1	■			1	20	--	EXISTING LOAD	20
21	EXISTING LOAD	--	20	1		■		**1**	**20**	**500**	**JB - VAV CORRIDOR 1-1459**	22
23	EXISTING LOAD	--	20	1			■	**1**	**20**	**500**	**JB - VAV CORRIDOR 1-1447**	24
25	EXISTING LOAD	--	20	1	■			**1**	**20**	**500**	**JB - VAV CORRIDOR 1-1441A**	26
27	EXISTING LOAD	--	20	1		■		**2**	**30**	**4,784**	**AC-1 - IT 01-61**	28
29	**ARC-1 - VESTIBULE 01-58**	**1,295**	**20**	**3**			■	--	--	--	--	30
31	**--**	**--**	**--**	**--**	■			**1**	**20**	**1,200**	**JB - CONDENSATE PUMP - IT 01-61**	32
33	**--**	**--**	**--**	**--**		■		1	20	--	SPARE	34
35	**ARC-1 DOOR SWITCH - VESTIBULE 01-58**	**500**	**20**	**1**			■	1	20	--	SPARE	36
37	SPARE	--	20	1	■			3	100	--	PANEL H2QLA	38
39	SPARE	--	20	1		■		--	--	--	--	40
41	SPARE	--	20	1			■	--	--	--	--	42

18 A / 29 A / 33 A

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	ESTIMATED DEMAND (VA)	PANEL TOTALS	kVA	AMPS
MISC	1,500	1,500			
MTRS	7,779	8,975	EXISTING CONNECTED LOAD:	18.2	50.4
			REMOVED CONNECTED LOAD:	0	0
			ADDED CONNECTED LOAD:	9.3	25.8
			TOTAL CONNECTED LOAD:	27.5	76.2
			TOTAL ESTIMATED DEMAND:	28.6	79.5

NOTES: EXISTING LOAD IS BASED ON 30 DAY METERING LOAD FROM 06/05/2024 - 07/05/2024 X 1.25.

		HMQLA
		HCPLLB
		H1QLA

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ALLISON WHEELER — NUMBER PE-2017006125 — PROFESSIONAL ENGINEER — STATE OF MISSOURI

04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

SCHEDULES - ELECTRICAL

E08-03

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_rvt23/MEP - LSMC ED Expansion_R23.rvt
4/22/2025 11:22:55 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
6/17/2025 9:17:16

ACCESS CONTROL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION		BACK BOX	MTG. HEIGHT UNO (NOTE 1)
	MOUNT	TECHNOLOGY		CEILING OR WALL MOUNT
EXAMPLE	C - CEILING D - DESK F - FLUSH H - HIDDEN M - MULLION P - POLE R - RACK S - SURFACE T - TURNSTILE W - WALL	- SPECIFIC TO DEVICE - CAN BE MULTIPLE EX- EXISTING ETR- EXISTING TO REMAIN	XX	
CR	**CARD ACCESS READER** S - SMART CARD F - ELEVATOR FLOOR CALL I - ICLASS M - MAGSTRIPE	H - ELEVATOR HALL CALL P - PROXIMITY W - WIEGAND	D1	48" AFF
BR	**BIOMETRIC ACCESS READER** F - FINGERPRINT I - IRIS V - VOICE	H - HAND GEOMETRY R - RETINA	D1	48" AFF
CK	**CARD ACCESS READER W/ KEYPAD** B - BARCODE F - ELEVATOR FLOOR CALL I - ICLASS M - MAGSTRIPE	S - SMART CARD H - ELEVATOR HALL CALL P - PROXIMITY W - WIEGAND DUAL PUSH BUTTON	D1	48" AFF
KP	**KEYPAD** D - DRY CONTACT	W - WIEGAND	D1	48" AFF
PB	**PUSH BUTTON** D- DIRECT POWER DROP	X - REQUEST TO EXIT	D2	48" AFF
RR	**REMOTE RELEASE BUTTON** U - UNDER COUNTER	W- WALL	D2	18" AFF
ACP	**ACCESS CONTROL PANEL**		N/A	(NOTE#4)
DC	**DOOR CONTACT**		N/A	AS REQD.
PB	**PANIC BUTTON** H- HARDWIRED	W- WIRELESS	N/A	AS REQD.
KS	**KEY SWITCH** A - ALTERNATE ACTION K - KEYED ALIKE LD - LED	IC - INTERCHANGEABLE CORE L- LATCHING M - MOMENTARY	D2	48" AFF
LPS	**LOCK POWER SUPPLY**		N/A	AS REQD.
PP / WP	**PUSH PAD/ WAVE PLATE** - DOOR OPENING ACTUATOR (NOTE #3)		D2	48" AFF

ACCESS CONTROL NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.
2. REFER TO FLOOR PLANS FOR DEVICE LOCATION LAYOUT.
3. PUSH PADS/WAVE PLATES ARE SHOWN FOR COORDINATION OF BACK BOX ROUGH IN PURPOSES ONLY. REFER TO DIV 08 SPECIFICATIONS FOR ADDITIONAL HARDWARE INFORMATION.
4. REFER TO ENLARGED COMM ROOM LAYOUT FOR EXACT PLACEMENT OF ACCESS CONTROL EQUIPMENT.

ACCESS CONTROL BACK BOX SCHEDULE

SYMBOL	DESCRIPTION
D1	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D2	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D3	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH DOUBLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
D4	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH DOUBLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
P1	PROPRIETARY BACK BOX WITH 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. REFER TO MANUFACTURER SPECIFICATIONS FOR DEVICE BACK BOX REQUIREMENTS AND PART #S.

VIDEO SURVEILLANCE SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION			BACK BOX	MTG. HEIGHT UNO (NOTE 1)
	M=MOUNTING TYPE		T=TECHNOLOGY (CAMERA TYPE)		CEILING OR WALL MOUNT
ZZZ EXAMPLE	C - CEILING D - DESK F - FLUSH M - MULLION P - POLE PA- PARAPET PE - PENDANT R - RACK S - SURFACE T - TURNSTILE W - WALL CO- CORNER		- SPECIFIC TO DEVICE - CAN BE MULTIPLE - SHOWN BELOW FOR EACH CAMERA ZZZ = FIELD OF VIEW	XX	
	STATIONARY CAMERA E - ENVIRONMENTAL P - POE V - VANDAL RESISTANT		C - COVERT D - DOME F - FISHEYE		AS REQD.
	PAN/TILT/ZOOM CAMERA B - BOX P - POE V - VANDAL RESISTANT		E - ENVIRONMENTAL D - DOME		AS REQD.
	2 SENSOR CAMERA E - ENVIRONMENTAL D - DOME		P - POE V - VANDAL RESISTANT		
	3 SENSOR CAMERA E - ENVIRONMENTAL D - DOME		P - POE V - VANDAL RESISTANT		AS REQD.
	4 SENSOR CAMERA E - ENVIRONMENTAL D - DOME		P - POE V - VANDAL RESISTANT		AS REQD.
	MONITOR D - DESKTOP R - RECESSED		S - SWING ARM T - WITH TILT	W - WALL MOUNT D2	AS REQD.
NVR	**VIDEO RECORDER** D - DVR		N - NVR		AS REQD.
SW	**SWITCH** K - KEY SWITCH P - PUSH BUTTON		T - TOGGLE	D2	AS REQD.
PS	**POWER SUPPLY** A - 12VDC B - 24VAC		P - POE		AS REQD.

VIDEO SURVEILLANCE NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.
2. REFER TO FLOOR PLANS FOR DEVICE LOCATION LAYOUT.
3. REFER TO ENLARGED COMM ROOM LAYOUT AND TYPICAL EQUIPMENT RACK LAYOUTS FOR EXACT PLACEMENT OF HEADEND EQUIPMENT.

VIDEO SURVEILLANCE BACK BOX SCHEDULE

TYPE	DESCRIPTION
INDOOR WALL MOUNT	DOUBLE GANG BACK BOX, 2 1/8" DEEP, MOUNTED VERTICALLY, WITH SINGLE GANG DEVICE COVER AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
INDOOR CEILING MOUNT	LAY-IN CEILING: 2X2 METAL CAMERA CEILING TILE WITH ADDITIONAL CEILING GRID SUPPORT. HARD-PAN CEILING: DOUBLE GANG BACK BOX, 2 1/8" DEEP, FLUSH MOUNTED IN CEILING, AND 3/4" CONDUIT PATHWAY STUBBED TO ABOVE ACCESSIBLE CEILING SPACE.
OUTDOOR WALL MOUNT	SINGLE GANG WEATHERPROOF BACK BOX, 2 1/8" DEEP, FLUSH MOUNTED VERTICALLY, AND 3/4" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE WITHIN BUILDING.
OUTDOOR CORNER MOUNT	DOUBLE GANG ALUMINUM WEATHERPROOF BACK BOX, 2 1/8" DEEP, SURFACE MOUNTED APPROXIMATELY SAME HEIGHT AS CORNER MOUNT, 3/4" LIQUID-TITE FROM BACK BOX TO CAMERA (WITH DRIP LOOP), AND 3/4" CONDUIT PATHWAY FROM BACK BOX STUBBED TO ABOVE ACCESSIBLE CEILING SPACE WITHIN BUILDING.
PARAPET MOUNT	DOUBLE GANG ALUMINUM WEATHERPROOF BACK BOX, 2 1/8" DEEP, SURFACE MOUNTED ON INSIDE OF PARAPET, 3/4" LIQUID-TITE FROM BACK BOX TO CAMERA (WITH DRIP LOOP), AND 3/4" CONDUIT PATHWAY FROM BACK BOX STUBBED TO ABOVE ACCESSIBLE CEILING SPACE WITHIN BUILDING.

NURSE CALL SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	BACK BOX	MTG. HEIGHT UNO (NOTE 1)
NM	NURSE CALL CONSOLE (GRAPHICAL STAFF CONSOLE, DESK MT. - GRS10)	AA	NOTE#3
RK	37 PIN BED CONNECTOR OUTLET (AUDIO STATION BED CONNECTOR)	BB	18" AFF
D	DOME LIGHT. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DOME LIGHT. MAY BE CEILING MOUNTED OR WALL MOUNTED.	DD	CEILING OR WALL MOUNT
2	ZONE DOME LIGHT. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DOME LIGHT. MAY BE CEILING MOUNTED OR WALL MOUNTED.	DD	CEILING OR WALL MOUNT
D S	DOME LIGHT - SINGLE BULB. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF DOME LIGHT. MAY BE CEILING MOUNTED OR WALL MOUNTED.	DD	CEILING OR WALL MOUNT
KS	KEY SWITCH (ENABLE/DISABLE)	BB	48" AFF
1J	SINGLE JACK AUXILIARY ALARM INPUT STATION (EQUIPMENT RECEPTACLE)	BB	48" AFF
2J	DUAL JACK AUXILIARY ALARM INPUT STATION (EQUIPMENT RECEPTACLE)	BB	48" AFF
6J	SIX JACK AUXILIARY ALARM INPUT STATION (EQUIPMENT RECEPTACLE)	BB	48" AFF
CB	SINGLE PUSH BUTTON/SWITCH STATION - CODE BLUE	BB	48" AFF
EP	EMERGENCY PUSH BUTTON/SWITCH STATION - STAFF EMERGENCY/BATH	BB	48" AFF
RA	REMOTE AUDIO DEVICE W/CODE BLUE	BB	48" AFF
PA	EMERGENCY PUSH BUTTON/SWITCH STATION W/AUDIO - STAFF EMERGENCY/BATH	BB	48" AFF
CP	SINGLE PUSH BUTTON/SWITCH STATION - CODE PINK	BB	48" AFF
SP	SINGLE PATIENT STATION: STANDARD ROOM STATION W/O CODE BLUE LEVER - (SRS or GRS)	CC	48" AFF
SP CB	SINGLE PATIENT STATION: STANDARD ROOM STATION W/ CODE BLUE LEVER - (SRS or GRS) (DEVICE EQUIPPED WITH STAFF ASSIST/CODE BLUE)	CC	48" AFF
D	DUTY STATION - STANDARD ROOMS STATION W/O CODE BLUE (SRS)	CC	48" AFF
RCB	ROOM CONTROL BOARD MOUNTED MINIMUM OF 6" ABOVE FINISHED CEILING	FF	ABOVE ACCESSIBLE CEILING
TVI	NURSE CALL - TELEVISION CROSS ROOM CONTROL CONNECTION	NOTE#3	NA
TVC	CURBELL WALL MOUNTED REMOTE ENTERTAINMENT STATION	BB	NA
LL	NURSE CALL - OVERBED LIGHT LIGHTING CONNECTION	BB	NA
NSCSER	NURSE CALL NETWORK SWITCH MOUNTED INTO VENDOR RACK.	NA	NA

NURSE CALL BACK BOX SCHEDULE

SYMBOL	DESCRIPTION
AA	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
BB	DOUBLE GANG BACK BOX, 3 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
CC	3 DEVICE BACK BOX, NON GANGABLE, 3 1/2" DEEP AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
DD	DOUBLE GANG BACK BOX, 3 1/2" DEEP, AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. CONFIRM WITH SYSTEM VENDOR FOR DEVICE RING SIZE FOR THIS DEVICE.
EE	DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH BLANK COVER PLATE AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
FF	12" X 12" X 4" STEEL BOX ENCLOSURE MOUNTED ABOVE ACCESSIBLE CEILING SPACE. ENCLOSURE PROVIDED BY NURSE CALL VENDOR.

NURSE CALL CABLE SCHEDULE

SYMBOL	DESCRIPTION	MODEL # (BELDEN)
A	4 PAIR CAT 5/5E 24AWG - NURSE CALL DATA CABLE	1583A
B	2 CONDUCTOR 12AWG - NURSE CALL POWER	5000UE
C	3 CONDUCTOR 22AWG, TV AND LOW VOLTAGE LIGHT RELAY	5501UE
F	6 STRAND MULTIMODE FIBER; ARMORED	B9B240

NURSE CALL NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. NURSE CONSOLE RECEPTACLE SHALL BE MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED, AND THE ACTUAL DEVICE SHALL RESIDE ON THE COUNTERTOP.
3. TV CONTROL OUTLET SHALL BE MOUNTED IN SAME BACK BOX AS THE TV COAX/DATA CABLE.

GENERAL SYMBOLS LEGEND

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	2", UNLESS NOTED OTHERWISE, PRE-MANUFACTURED SLEEVE FIRE RATED PATHWAY DEVICE THROUGH RATED WALL, EMT SLEEVE THROUGH NON-RATED WALL.
	VERTICAL CORE AND SLEEVE THROUGH FLOOR. PROVIDE EMT SLEEVE, EQUIPPED WITH PLASTIC BUSHING ON BOTH ENDS. REFER TO FLOOR PLANS FOR SIZING. RATING SHALL MATCH FLOOR BEING PENETRATED. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR RATINGS.
	2 POST FREESTANDING EQUIPMENT RACK. SIZE AND LOCATION AS SHOWN ON DRAWINGS AND SPECS.
	4 POST FREESTANDING EQUIPMENT RACK. SIZE AND LOCATION AS SHOWN ON DRAWINGS AND SPECS.
	BASKET TRAY SIZE AND LOCATION AS SHOWN ON DRAWINGS AND SPECS.
	TELECOMMUNICATIONS GROUND BUSS BAR (TGB) - 1/4" X 4" X 12", CPI PART # 40153-012 OR EQUAL

OUTLET SYMBOLS LEGEND

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= DESIGNATES CABLE/JACK COUNT FOR DEVICE

SYMBOL	DESCRIPTION	MTG. HEIGHT U.N.O. (NOTE 1)
#V	VOICE ONLY OUTLET	18" AFF
#D	HOSPITAL DATA NETWORK ONLY OUTLET	18" AFF
#V/#D	COMBINATION VOICE & HOSPITAL DATA NETWORK OUTLET	18" AFF
PM#	PHYSIOLOGICAL MONITORING NETWORK OUTLET	18" AFF
FM#	FETAL MONITORING NETWORK OUTLET	18" AFF
PM#/#D	COMBINATION PHYSIOLOGICAL MONITORING NETWORK & HOSPITAL DATA NETWORK OUTLET	18" AFF
W OR W	VOICE AND/OR DATA OUTLET, WALL PHONE STYLE FACEPLATE, 1 VOICE/DATA CABLE. PROVIDE DOUBLE GANG BACK, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	48" AFF
W OR W	VOICE AND/OR DATA OUTLET, WALL PHONE STYLE FACEPLATE, 1 VOICE/DATA CABLE, MOUNTED ABOVE COUNTER. PROVIDE DOUBLE GANG BACK, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	42" AFF
	ABOVE COUNTER OUTLET, #=CABLE QUANTITY, MOUNTED ABOVE THE COUNTERTOP. PROVIDE DOUBLE GANG BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.	42" AFF
	FLOOR MOUNTED OUTLET, #=CABLE QUANTITY. REFER TO ELECTRICAL (E) SHEETS FOR ADDITIONAL ROUGH IN REQUIREMENTS.	FLOOR
	CEILING MOUNTED OUTLET, #=CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS AND LEAVE A MINIMUM 25 FEET COILED AT THE LOCATION.	ABOVE ACCESSIBLE CEILING
WAP #	DATA OUTLET FOR WIRELESS ACCESS POINT DEVICE, #=CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS WITH A MINIMUM 25 FEET COILED AT THE DEVICE LOCATION. CONTRACTOR SHALL RELOCATE OUTLETS AND MOUNT DEVICE PER OWNER'S IT WIRELESS SURVEY.	ABOVE ACCESSIBLE CEILING
TELE #	WIRELESS TELEMETRY MONITORING OUTLET, #=CABLE QUANTITY. OUTLET TO BE LOCATED ABOVE ACCESSIBLE CEILING SPACE. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS AND LEAVE A MINIMUM 25 FEET COILED AT THE OUTLET LOCATION. ROUTE OTHER END TO NEAREST TELEMETRY BACKBOARD LOCATION, LEAVING A MINIMUM 15 FEET COILED UP.	ABOVE ACCESSIBLE CEILING
RTLS #	DATA OUTLET FOR RTLS DEVICE, #=CABLE QUANTITY. OUTLET TO BE HOUSED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. CABLE TO LOCATION SHOWN ON THE FLOOR PLANS WITH A MINIMUM 25 FEET COILED AT THE DEVICE LOCATION.	ABOVE ACCESSIBLE CEILING

VOICE/DATA NOTES:
1. VOICE, DATA, AND/OR COMBONATION OUTLET, #=OUTLET/CABLE QUANTITY, PROVIDE DOUBLE GANG DEVICE BACK BOX, 2 1/8" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
3. CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF OUTLETS FOR TELEVISIONS, INFO. MONITORS, DIGITAL SIGNAGE, AND/OR OTHER WALL MOUNTED MONITORS WITH VENDOR PROVIDED MOUNTING BRACKET PRIOR TO ROUGH IN.
4. 48" AFF INDICATES TO TOP OF DEVICE;
   18" AFF INDICATES TO CENTER OF DEVICE;
   60" AFF INDICATES TO BOTTOM OF DEVICE;
   80" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.
5. SOME DEVICES MAY HAVE SPECIAL DESCRIPTORS (MEDS, PTS, ETC.) CALLING OUT EQUIPMENT SERVED BY OUTLET. SEE ABBREVIATIONS FOR REFERENCE.
6. "V" AND "D" DESIGNATIONS MAY NOT BE USED IF FACILITY UTILIZES VoIP TELEPHONES, IN WHICH CASE ALL CABLING SHALL BE INSTALLED AS NETWORK CABLING WITHIN THE SAME PATCH PANELS.

MONITOR OUTLET SYMBOLS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	BACK BOX	MTG. HEIGHT UNO (NOTE 1)
TRK/#D	TRACKER MONITOR: #=CABLE QUANTITY	D	NOTE 2
INFO/#D	INFORMATION MONITOR: #=CABLE QUANTITY	D	NOTE 2
MON/PM#	WALL MOUNTED PHYSIOLOGICAL MONITORING TRACKER MONITOR: #=CABLE QUANTITY OF PATIENT MONITORING DATA CABLES	A	NOTE 2
MON/FM#	WALL MOUNTED FETAL MONITORING TRACKER MONITOR: #=CABLE QUANTITY OF FETAL MONITORING DATA CABLES	A	NOTE 2
SEC/#D	SECURITY TRACKER MONITOR: #=CABLE QUANTITY	D	NOTE 2 & 4
TV/#D	NON-CLINICAL TELEVISION (WAITING RM, BREAK RM, ETC.): TELEVISION OUTLET - ONE RG6 COAX CABLE + #=CABLE QUANTITY OF DATA CABLES	D	NOTE 2 & 3
PTV/4	PATIENT ROOM TELEVISION OUTLET: ONE RG6 COAX CABLE, NURSE CALL PILLOW SPEAKER JACK, & FOUR DATA CABLES	E	NOTE 2 &3
TVJ	TV JUNCTION BOARD. PROVIDE A MINIMUM 4 X 4' OF CLEAR WALL BACKBOARD SPACE FOR CATV EQUIPMENT AND CONNECTIONS. REFER TO CONTRACT DRAWINGS FOR EXACT LOCATION OF TVJ.	N/A	N/A

TELEVISION ROUGH IN LEGEND

SYMBOL	DESCRIPTION
A	DOUBLE GANG BACK BOX, 2 1/2" DEEP, WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
B	DOUBLE GANG BACK BOX, 2 1/2" DEEP, WITH DOUBLE GANG DEVICE COVER AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE.
C	TRIPLE GANG BACK BOX, 2 1/2" DEEP AND 1" CONDUIT PATHWAY STUBBED ABOVE ACCESSIBLE CEILING SPACE. POWER AND LOW VOLTAGE OUTLET SHALL SHARE SAME BACK BOX. CONTRACTOR TO PROVIDE VOLTAGE PARTITION WITHIN BACK BOX.
D	ARLINGTON RECESSED AV BOX (PART # TVBS507). PROVIDE (1) 1" CONDUIT PATHWAY STUBBED TO ABOVE ACCESSIBLE CEILING SPACE.
E	ARLINGTON RECESSED AV BOX (PART # TVBS613). PROVIDE (1) 1" CONDUIT PATHWAY STUBBED TO ABOVE ACCESSIBLE CEILING SPACE.

TELEVISION NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.
2. COORDINATE OUTLET LOCATION WITH TV MOUNTING BRACKET PRIOR TO ROUGH IN.
3. REFER TO RESPONSIBILITY MATRIX FOR OWNERSHIP OF RESPONSIBILITY AT TELEVISION DEVICE OUTLET.
4. REFER TO SECURITY SHEETS FOR DEVICE LOCATION.
5. 48" AFF INDICATES TO TOP OF DEVICE;
   18" AFF INDICATES TO CENTER OF DEVICE;
   60" AFF INDICATES TO BOTTOM OF DEVICE;
   80" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.
6. "V" AND "D" DESIGNATIONS MAY NOT BE USED IF FACILITY UTILIZES VoIP TELEPHONES, IN WHICH CASE ALL CABLING SHALL BE INSTALLED AS NETWORK CABLING WITHIN THE SAME PATCH PANELS.

ABBREVIATIONS

ACP	ACCESS CONTROL PANEL
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AHU	AUTHORITY HAVING JURISDICTION
AMP	OVERHEAD PAGING AMPLIFIER
AV	AUDIO VISUAL DEVICE/EQUIP (COORDINATE OUTLET INSTALLATION WITH AV VENDOR)
BAS/BMS	BUILDING AUTOMATION/MANAGEMENT SYSTEM (COORDINATE OUTLET INSTALLATION WITH BMS VENDOR)
BFC	BELOW FINISHED CEILING
BVC	BABY VIEWING CAMERA DEVICE
CAB	CABINET
CCI	WALL MOUNTED "CCI" WORKSTATION (IF APPLICABLE)
CLK	WALL CLOCK
CPU	COMPUTER WORKSTATION
CT	CABLE TRAY
DAS	DISTRIBUTED ANTENNA SYSTEM
DEMARC	DEMARCATION ROOM
DIA	DIAMETER
EMT	ELECTRICAL METAL TUBING
EQ	EQUIPMENT
EV	ELECTRIC VEHICLE CHARGING STATION
(EX)	EXISTING
FM	FETAL MONITORING
HUGS	INFANT PROTECTION SYSTEM
IDF	INTERMEDIATE DISTRIBUTION FRAME (SEE TDR)
INFO	INFORMATION MONITOR
JS	"JUMPSTART" DEVICE (MOUNTED NEXT TO KRONOS TIME CLOCK. MOUNT AT 48" AFF)
LV	LOW VOLTAGE
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME (SEE TEC)
MEDS	MEDICATION DISTRIBUTION EQUIPMENT
MFR	MANUFACTURER
MIN	MINIMUM
MON	MONITOR
NA	NOT APPLICABLE
NC	NURSE CALL
NTS	NOT TO SCALE
OR INT	OPERATING ROOM INTEGRATION EQUIPMENT (COORDINATE INSTALLATION WITH OR INT. VENDOR)
PACS	PACS VIEWING STATION
PM	PHYSIOLOGICAL/PATIENT MONITORING
PROX	WALL MOUNTED "PROXIMITY SYSTEMS" WORKSTATION (IF APPLICABLE)
PTS	PNUEMATIC TUBE SYSTEM (COORDINATE OUTLET INSTALLATION WITH PTS VENDOR)
PTV	PATIENT TELEVISION
RTLS	REAL-TIME LOCATING SYSTEM
TC	EMPLOYEE TIME CLOCK (MOUNTED AT 48" AFF)
TDR	TELECOMMUNICATIONS DISTRIBUTION ROOM (SEE IDF)
TEC	TELECOMMUNICATIONS EQUIPMENT CENTER (SEE MDF)
TELE	TELEMETRY SYSTEM
TRK	TRACKER MONITOR
TV	TELEVISION
UNO/UON	UNLESS NOTED OTHERWISE/UNLESS OTHERWISE NOTED
W	WALL PHONE (MOUNTED AT 48" AFF)
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
WRK	WALL MOUNTED WORKSTATION ON ARM

PUBLIC ADDRESS LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION		MTG. HEIGHT UNO (NOTE 1)
S Z	PA SPEAKER Z = ZONE NUMBER M = MOUNT	M: C = LAY IN CEILING PD = PENDANT F = CEILING FLUSH (HARD LID) W = WALL P = POLE L = LANDSCAPE	NA
H Z	PA SPEAKER - HORN TYPE Z = ZONE NUMBER M = MOUNT	M: W = WALL P = POLE L = LANDSCAPE	NA
V Z	PA VOLUME CONTROL - DOUBLE GANG BACKBOX, 2 1/2" DEEP, WITH SINGLE GANG DEVICE COVER, 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. Z = ZONE NUMBER		48" AFF
AMP Z	PA AMPLIFIER: Z = ZONE NUMBER M = MOUNT	M: W = WALL SHELF R = RACK/CABINET	NA
PAHE Z	PA HEADEND - MIXER, AUDIO INPUTS AND CONTROLS: Z = ZONE NUMBER M = MOUNT	M: W = WALL SHELF R = RACK/CABINET	NA

PUBLIC ADDRESS NOTES:
1. COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES.
2. 48" AFF INDICATES TO TOP OF DEVICE;
   18" AFF INDICATES TO CENTER OF DEVICE;
   60" AFF INDICATES TO BOTTOM OF DEVICE;
   80" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

INTERCOM LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR ON ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MTG. HEIGHT UNO (NOTE 1)
IC 1	INTERCOM MASTER CONTROL STATION - DESK MOUNTED. DOUBLE GANG BOX, 4" X 4", WITH 2" X 4" DEVICE COVER, 1" CONDUIT STUBBED ABOVE CEILING.	18" AFF
IC 2	INTERCOM REMOTE MONITORING LOCATION - DESK MOUNTED. DOUBLE GANG BACKBOX, 4" X 4", WITH 2" X 4" DEVICE COVER, 1" CONDUIT STUBBED ABOVE CEILING.	18" AFF
IC 3	INTERCOM DOOR STATION - WALL MOUNTED. DOUBLE GANG BACKBOX, 4" X 4", WITH 2" X 4" DEVICE COVER, 1" CONDUIT STUBBED ABOVE CEILING.	48" AFF
IC 4	INTERCOM DOOR STATION W/ CARD READER - FLUSH MOUNTED. PROPRIETARY BACK BOX, 1" CONDUIT STUBBED ABOVE CEILING.	48" AFF

INTERCOM CABLE SCHEDULE

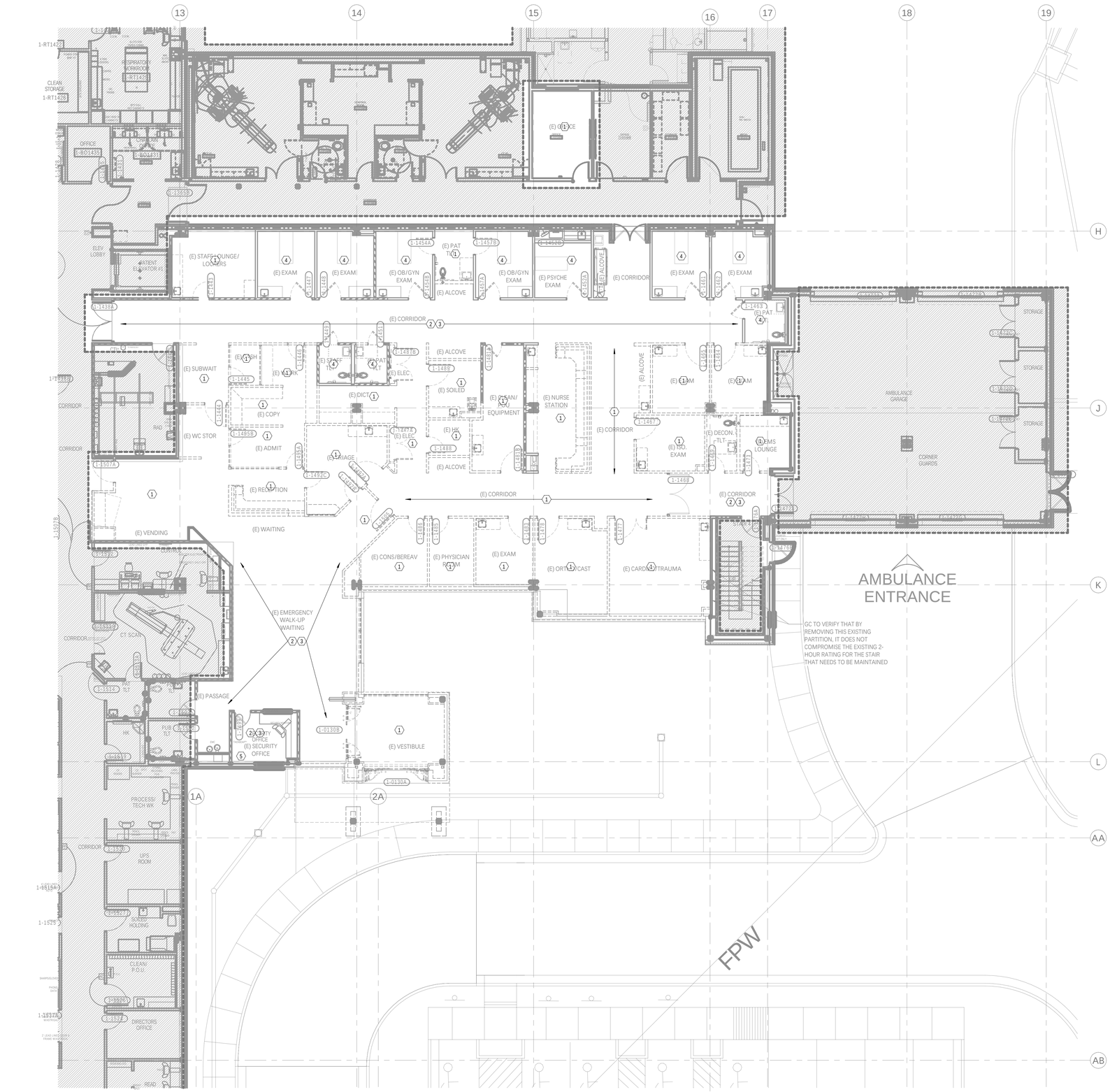
SYMBOL	DESCRIPTION	PART#
"IC"	2 CONDUCTOR #18 AWG	6300UE
"IC-N"	CATEGORY CABLE	REFER TO DIV. 271500

INTERCOM NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
2. CABLING CONTRACTOR TO PROVIDE AND INSTALL ALL INTERCOM CABLES AS SHOWN ON THE DRAWINGS; LEAVING A MINIMUM 2 FEET COILED AT EACH LOCATION.
3. DOOR STATIONS SHALL BE PROVIDED WITH DOOR UNLOCK CAPABILITY WITH THE ASSOCIATED DOOR FROM THE MASTER STATION.
4. REFER TO RESPONSIBILITY MATRIX SCHEDULE FOR OWNERSHIP OF RESPONSIBILITIES OF THE INTERCOM SYSTEM.

TECHNOLOGY GENERAL NOTES:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING THEIR PROPOSAL AND BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED, AND CORRELATE THEIR SITE OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. INCONSISTENCIES DISCOVERED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER AT ONCE, BEFORE SUBMITTAL OF BID PROPOSAL.
2. ALL COMMUNICATIONS PRODUCTS AND INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MATERIALS AND METHODS FOR COMMUNICATIONS CONSTRUCTION.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PAY ALL FEES, AND COMPLY WITH ALL NATIONAL, STATE, AND MUNICIPAL LAWS, CODES, AND ORDINANCES RELATING TO BUILDING AND PUBLIC SAFETY.
4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED FOR A COMPLETE WORKING AND COORDINATED SYSTEM.
5. UNLESS OTHERWISE NOTED ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND U.L. LISTED OR LABELED. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND LISTING

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/17/2025 9:17:16



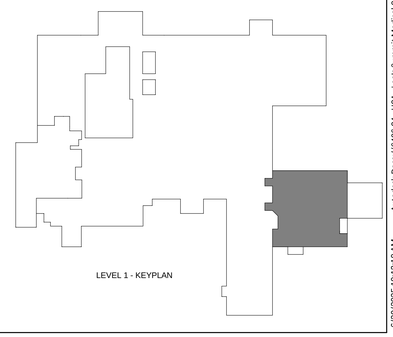
1 DEMOLITION PLAN - LEVEL 01 - COMMUNICATIONS
1/8" = 1'-0"

GENERAL NOTES:

A. ALL EXISTING DEVICES MAY NOT BE SHOWN ON PLAN. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH ARCHITECTURAL PLANS AND OTHER TRADES TO DETERMINE THE OUTCOME OF EACH DEVICE. WHERE NO CONSTRUCTION IS TO OCCUR, EXISTING DEVICES SHALL BE PROTECTED IN PLACE AND REMAIN IN OPERATION THROUGHOUT DURATION OF ALL PROJECT PHASES.
B. INFORMATION PROVIDED ON THESE DRAWINGS HAVE BEEN TAKEN FROM DESIGN DRAWING AND FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.
C. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING AND/ OR ELECTRICAL WORK.
D. WHERE EXISTING WALLS ARE BEING DEMOLISHED, REMOVE ALL EXISTING COMMUNICATIONS/ LOW VOLTAGE DEVICES AND THEIR ASSOCIATED CONDUITS, BACKBOXES AND CABLING BACK TO POINT OF ORIGINATION. EXISTING CABLING PASSING THROUGH DEMO AREA, NOT BEING DEMOLISHED, SHALL BE SUPPORTED UTILIZING J-HOOK CABLE SUPPORTS INSTALLED PER DIVISION 27 SPECIFICATIONS.
E. CONTRACTOR SHALL COORDINATE THE REMOVAL OR RELOCATION OF ALL COMMUNICATIONS/ LOW VOLTAGE DEVICES (INCLUDING BUT NOT LIMITED TO VOICE, DATA, OVERHEAD PAGING, VIDEO SURVEILLANCE CAMERAS, PHYSIOLOGICAL MONITORING, TELEMETRY, NURSE CALL, SECURITY ACCESS CONTROL, ETC.) WITH ARCHITECTURAL DRAWINGS.
F. REMOVED EQUIPMENT SHALL BE THE PROPERTY OF THE OWNER UNLESS SPECIFIED OTHERWISE BY EITHER THE CONSTRUCTION DOCUMENTS OR THE OWNER. DEMOLITION MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
G. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF DAMAGE TO FIREPROOFING, FINISHES OR STRUCTURE CAUSED BY TELECOM, LOW-VOLTAGE, OR SECURITY CONTRACTORS. RESTORATION SHALL BE RESTORED TO "SAME CONDITION" AS BEFORE DAMAGE OCCURED. CONTRACTOR SHALL OBTAIN WRITTEN ACCEPTANCE OF RESTORATION FROM OWNER. IF DEMOLITION IS REQUIRED TO INSTALL AN ITEM, THE CONTRACTOR SHALL RESTORE THE AREA TO PREVIOUS CONDITION, OR REPLACE DAMAGED ITEMS WITH NEW ITEMS TO MATCH EXISTING.
H. WHERE AREAS BEING DEMOLISHED CONTAIN INFANT PROTECTION SYSTEM (IPS) DEVICES, CONTRACTOR SHALL DISABLE IPS EQUIPMENT AND PROVIDE INTERIM SYSTEM PROGRAMMING PRIOR TO REMOVAL TO PREVENT FALSE ALARMING AND LOCKDOWN OF DEMOLITION AREA.
I. EXISTING CABLING THAT IS TO REMAIN THAT WILL BE ROUTING THROUGH NEW WALL PARTITIONS, SHALL BE FITTED WITH A PRE-MANUFACTURED SPLIT SLEEVE DEVICE, FASTENED AROUND THE CABLING THAT IS EXISTING TO REMAIN. SLEEVE PENETRATION SHALL BE FIRE-STOPPED TO MANUFACTURER'S SPECIFICATIONS TO MEET OR EXCEED THE WALL RATING THAT IS BEING PENETRATED.
J. EXISTING CEILING MOUNTED DEVICES (WAPS, DAS ANTENNAS, TELEMETRY MONITORING ANTENNAS, ETC.) WITHIN DEMO AREAS THAT ARE TO BE REUSED, SHALL BE DOCUMENTED OF CURRENT LOCATION, REMOVED, CLEANED, STORED AND REINSTALLED INTO NEW CEILINGS AT LOCATION PREVIOUSLY DOCUMENTED. COORDINATE WITH G.E. SYSTEM VENDOR FOR REMOVAL, RELOCATION, AND REINSTALLATION OF PATIENT MONITORING/TELEMTRY EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH OWNER'S IT PERSONNEL FOR ALL OTHER SYSTEMS.

LEGEND NOTES:

1. EXISTING DEVICE AND ASSOCIATED CABLING, CONDUIT, AND BACKBOXES WITHIN THIS ROOM/AREA SHALL BE DEMOLISHED TO POINT OF ORIGINATION. EXISTING CABLING REMAINING WITHIN THE CEILINGS THAT ARE NOT TO BE DEMOLISHED SHALL BE SUPPORTED WITH J-HOOKS INSTALLED PER DIVISION 27 SPECIFICATIONS.
2. ANY EXISTING CEILING MOUNTED DEVICES (WAPS, DAS ANTENNAS, TELEMETRY MONITORING ANTENNAS) WITHIN THIS ROOM/AREA, SHALL BE DOCUMENTED OF CURRENT LOCATION, REMOVED, CLEANED, STORED AND REINSTALLED INTO NEW CEILING AT LOCATION PREVIOUSLY DOCUMENTED LOCATION. EXISTING CABLING LOCATED WITHIN AREAS WHERE CEILING IS TO BE REMOVED SHALL BE SUPPORTED WITH J-HOOKS INSTALLED PER DIVISION 27 SPECIFICATIONS.
3. EXISTING DEVICES WITHIN THIS ROOM/AREA SHALL BE DETACHED FROM WALL AND PROTECTED IN PLACE TO ALLOW FOR NEW WALL COVERING TO BE APPLIED. DEVICE FACEPLATES AND NEW LABELING SHALL BE APPLIED TO EXISTING OUTLET JACKS AND REINSTALLED ONTO WALLS AFTER NEW WALL COVERINGS HAVE BEEN INSTALLED. ALL OTHER LOW VOLTAGE DEVICES (NURSE CALL, SECURITY, ETC.) SHALL BE DETACHED, PROTECTED IN PLACE AND REINSTALLED TO PREVIOUS CONDITION. NO DAMAGED OR NON-WORKING DEVICES SHALL BE REPLACED, A REPAIRED, OR REINSTALLED. B
4. EXISTING CABLING WITHIN THIS ROOM SHALL REMAIN AS IS. CONTRACTOR SHALL REMOVE EXISTING FACEPLATES AND OUTLET JACKS AND REPLACE WITH NEW. CONTRACTOR SHALL RESERTIFY EXISTING CABLING PER DIVISION 27 TESTING SPECIFICATIONS.
5. CONTRACTOR SHALL DISCONNECT, CLEAN, AND PROTECT EXISTING EQUIPMENT RACK MOUNTED IN EQUIPMENT CLOSET FOR CONTINUED USE IN NEW SURVEILLANCE EQUIPMENT. CONTRACTOR SHALL CONFIRM EXISTING EQUIPMENT THAT IS NO LONGER IN USE AND REMOVE WALL MOUNTED CABINET. EXISTING MEDIA CONVERTER EQUIPMENT CURRENTLY IN USE SHALL BE RELOCATED TO A NEW WALL MOUNTED VENTED SHELF (CHATSWORTH PART # 40117-719) AT 12" BELOW FINISHED CEILING ON SAME WALL. CONTRACTOR SHALL PROVIDE FACILITY REPRESENTATIVE WITH REMOVED EQUIPMENT FOR DISPOSAL.



LEVEL 1 - KEYPLAN

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STATE OF MISSOURI
MINDY SUSAN WHEELER
NUMBER PE-2011100121
PROFESSIONAL ENGINEER
06/05/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DEMOLITION PLAN - LEVEL 01 - COMMUNICATIONS

TD02-01

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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
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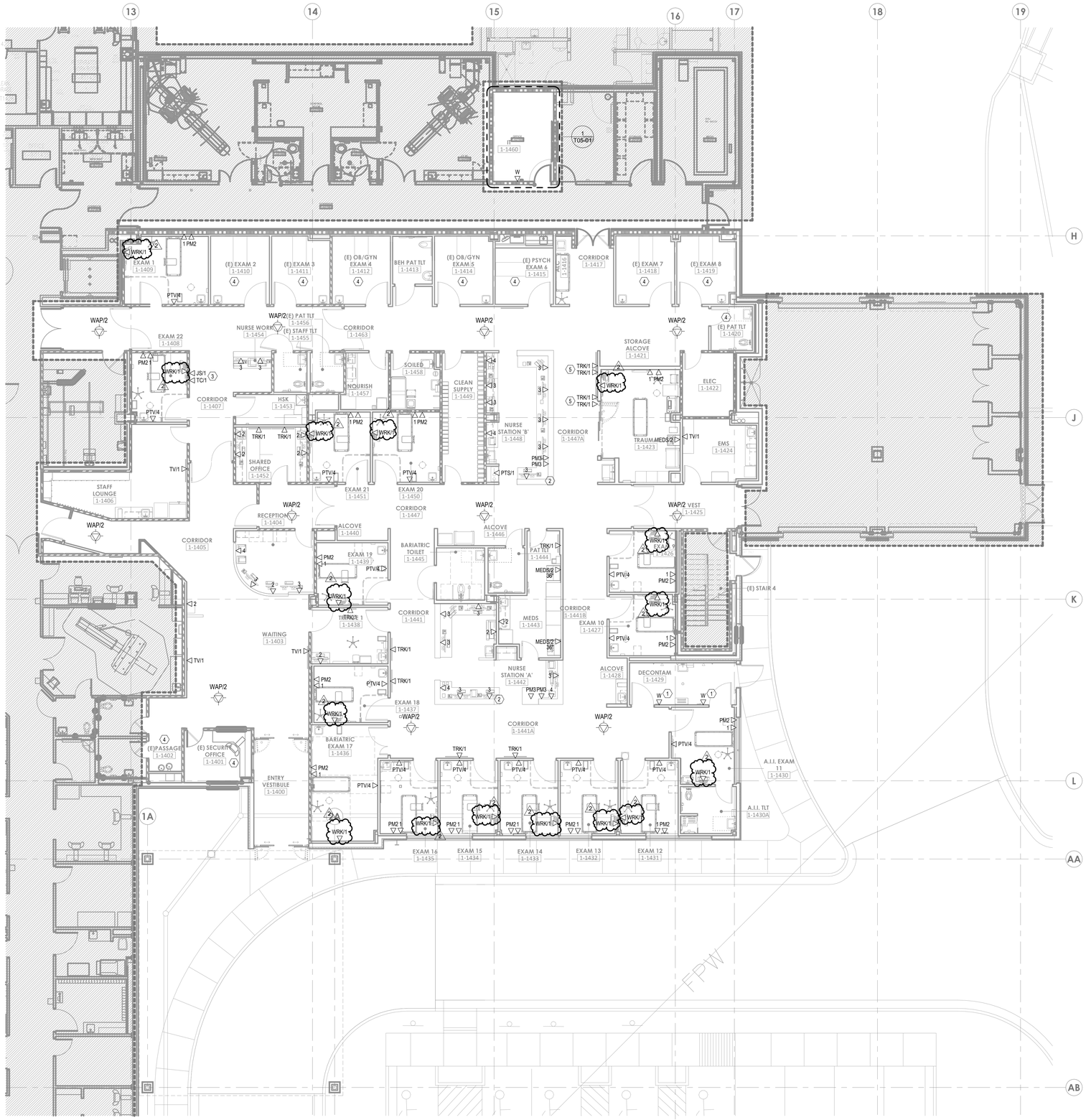


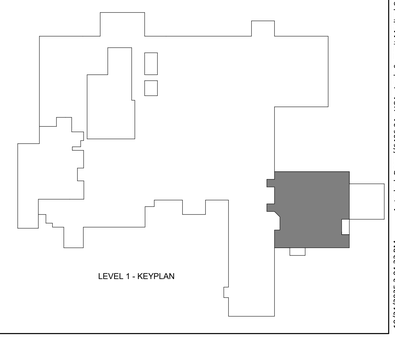
1 FLOOR PLAN - LEVEL 01 - COMMUNICATIONS
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL DEVICES.
B. REFER TO SHEET T00-00 FOR GENERAL NOTES AND SYMBOLS APPEARING ON THIS SHEET.
C. ALL DEVICES WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL HAVE CONDUITS ROUTED TO ABOVE ACCESSIBLE CEILING SPACE IN CORRIDOR.
D. COMMUNICATIONS CONDUIT PATHWAYS SHALL NOT CONTAIN ANY LENGTH GREATER THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS. IF THERE IS REVERSE BEND IN THE SECTION, A PULL POINT SHALL BE INSTALLED. PULL BOXES SHALL NOT BE USED IN LIEU OF BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION. NO DAISY CHAINING OF BACK BOXES ALLOWED UNLESS OTHERWISE NOTED.
E. ALL CABLING SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING SPACE USING LOW-VOLTAGE SUPPORTS SIZED AT 40% FILL BASED ON CURRENT NEEDS.
F. FOR ALL WALL MOUNTED MONITORS (TRACKERS, INFO, SECURITY, PATIENT, ETC.), CONTRACTOR SHALL COORDINATE A/V BACKBOX LOCATION AND MOUNTING HEIGHT WITH VENDOR PROVIDED MOUNTING BRACKET PRIOR TO ROUGH IN.

LEGEND NOTES

1. PROVIDE WEATHERPROOF DUAL GANG BACKBOX WITH DUAL GANG DEVICE RING FOR FLUSH MOUNTED WEATHERPROOF (ALGO 8201 INTERCOM) WALL PHONE DEVICE. PROVIDE 1" CONDUIT PATHWAY FROM OUTLET BOX TO ACCESSIBLE CEILING SPACE WITHIN CORRIDOR. ALGO WALL PHONE DEVICE PROVIDED AND INSTALLED BY OWNER VENDOR.
2. CONTRACTOR SHALL PROVIDE (1) 2" AND (1) 1" CONDUIT PATHWAY FROM WITHIN MILLWORK TO NEAREST ACCESSIBLE CEILING SPACE FOR CABLING PATHWAYS. CONDUIT SHALL BE HARD PIPE ONLY U.N.O. FLEX PIPING AND DAISY CHAINING OF OUTLET BOXES SHALL NOT BE ALLOWED PER HCA REQUIREMENT. EMPTY CONDUIT SHALL CONTAIN PULL STRING.
3. PROVIDE TWO INDIVIDUAL NETWORK OUTLETS MOUNTED AT 48"AFF AT LOCATION SHOWN FOR OWNER PROVIDED KRONOS TIME CLOCK AND "JUMPSTART" DEVICE. COORDINATE WITH OWNER'S IT&S PERSONNEL FOR EXACT ROUGH IN REQUIREMENTS OF JUMPSTART DEVICE TO DETERMINE EXACT MOUNTING HEIGHT AND LOCATION OF POWER AND DATA.
4. EXISTING CABLING WITHIN THIS ROOM SHALL REMAIN AS IS. CONTRACTOR SHALL REMOVE EXISTING FACEPLATES AND OUTLET JACKS AND REPLACE WITH NEW. CONTRACTOR SHALL RECERTIFY EXISTING CABLING PER DIVISION 27 TESTING SPECIFICATIONS.
5. TRACKER MONITORS ARE STACKED. REFER TO ARCHITECTURAL PLANS FOR TRACKER ELEVATIONS. COORDINATE BACK BOX LOCATIONS PRIOR TO ROUGH-IN.



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STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017006125
PROFESSIONAL ENGINEER
10/24/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
2	ASI-002 - DESIGN COORDINATION	2025/10/24

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 01 - COMMUNICATIONS

T02-01

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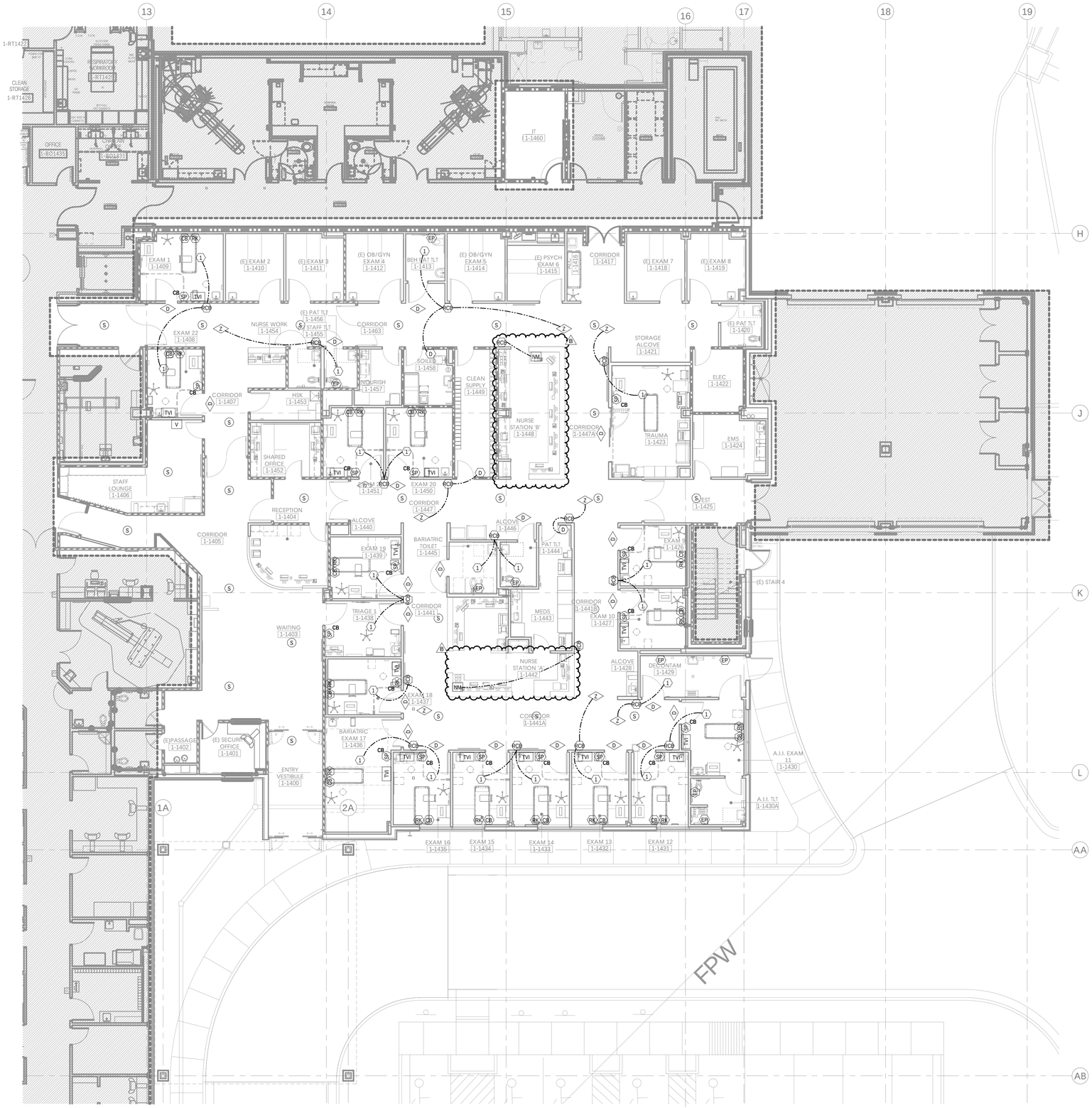

1 FLOOR PLAN - LEVEL 01 - LOW VOLTAGE
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL DEVICES.
B. REFER TO SHEET T00-00 FOR GENERAL NOTES AND SYMBOLS APPEARING ON THIS SHEET.
C. ALL DEVICES WITHIN ROOMS CONTAINING HARD PAN CEILINGS SHALL HAVE CONDUITS ROUTED TO ABOVE ACCESSIBLE CEILING SPACE IN CORRIDOR.
D. COMMUNICATIONS CONDUIT PATHWAYS SHALL NOT CONTAIN ANY LENGTH GREATER THAN 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS. IF THERE IS REVERSE BEND IN THE SECTION, A PULL POINT SHALL BE INSTALLED. PULL BOXES SHALL NOT BE USED IN LIEU OF BENDS. THE INSIDE RADIUS OF ALL CONDUIT BENDS SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING INSTALLATION. NO DAISY CHAINING OF BACK BOXES ALLOWED UNLESS OTHERWISE NOTED.
E. ALL CABLING SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING SPACE USING LOW-VOLTAGE SUPPORTS SIZED AT 40% FILL BASED ON CURRENT NEEDS.
F. ALL OVERHEAD PAGING SPEAKERS SHOWN SHALL BE DAISY-CHAINED USING PUBLIC ADDRESS CALL CABLE TYPE "S".
G. CONTRACTOR SHALL SIZE PAGING AMPLIFIER TO PROVIDE A 40% GROWTH RATE AT TIME OF INSTALLATION. OVERHEAD PAGING EQUIPMENT WILL BE HOUSED IN ONE IDF ROOM PER FLOOR AS NOTED PER ENLARGED FLOOR PLANS.
H. CONTRACTOR SHALL LABEL BOTH ENDS OF NURSE CALL CABLE TO CLEARLY IDENTIFY WHAT ROOM/SPACE & DEVICE EACH CABLE IS ASSOCIATED WITH.
I. CONTRACTOR SHALL LEAVE A MINIMUM OF 18 INCHES OF SLACK AT ALL WALL MOUNTED NURSE CALL DEVICES. 15 FEET AT ALL CEILING MOUNTED NURSE CALL DEVICES, AND 25 FEET OF SLACK AT TE NURSE CALL HEADEND PANEL/NETWORK SWITCH LOCATION.

LEGEND NOTES

1. LINE SHOWN TO DESIGNATE WHICH ROOM(S) ARE TO BE FED FROM EACH ROOM CONTROL BOARD (RCB) DEVICE.

LEVEL 1 - KEYPLAN

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MINDY SUSAN WHEELER
NUMBER PE-2011000125
PROFESSIONAL ENGINEER
06/05/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 01 - LOW VOLTAGE

T03-01

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6/20/2025 10:12:21 AM

RELEASE FOR CONSTRUCTION
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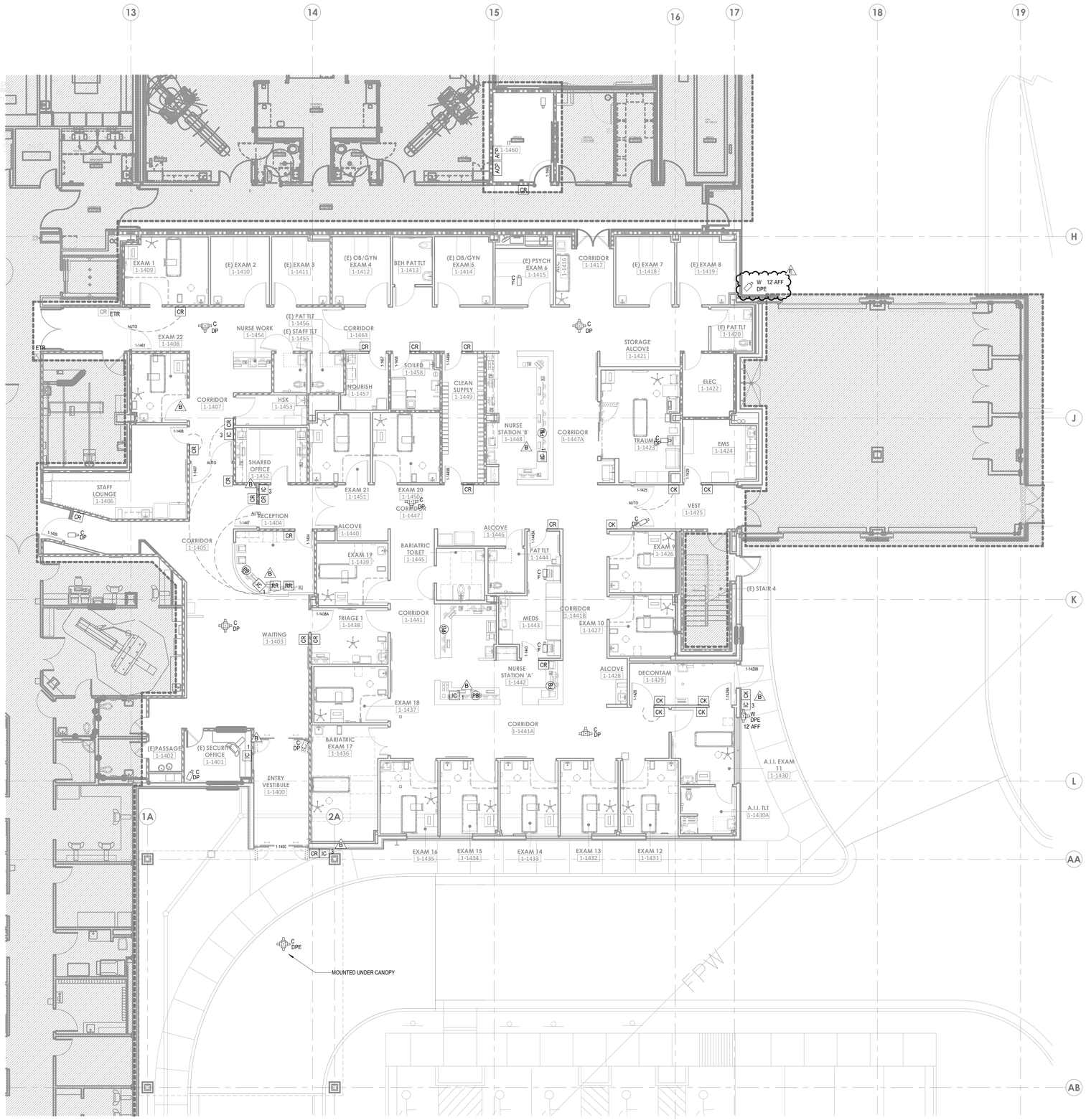
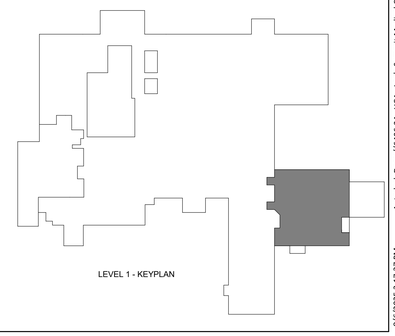
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
8/7/2025 9:17:16

GENERAL NOTES:

A. REFER TO SHEET T00-00 FOR SYMBOLS AND ADDITIONAL GENERAL NOTES PERTAINING TO THIS SHEET.
B. REFER TO AND COORDINATE WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATIONS OF ALL WALL MOUNTED DEVICES.
C. ALL DEVICES WITHIN AREAS OF HARD PAN CEILINGS SHALL BE PIPED TO ABOVE ACCESSIBLE CEILING SPACE IN CORRIDOR.
D. ALL LOW VOLTAGE CABLES SHALL BE INSTALLED IN LOW VOLTAGE CABLING SUPPORT SYSTEM.
E. COMMUNICATIONS CONDUIT PATHWAYS SHALL NOT CONTAIN ANY LENGTH GREATER THAT 100 FEET BETWEEN PULL POINTS. NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS.
F. WIRING TO DEVICES SHALL MEET OR EXCEED MANUFACTURER SPECIFICATIONS.
G. DOOR HARDWARE PROVIDED AND/ OR INSTALLED BY DIVISION 08 IS SHOWN FOR COORDINATION PURPOSES ONLY. EXACT LOCATION AND INSTALLATION METHODS FOR THESE DEVICES SHALL BE BY DIVISION 08.
H. SECURITY/ ACCESS CONTROL, DOOR HARDWARE, AND ELECTRICAL CONTRACTORS SHALL COORDINATE FOR INFRASTRUCTURE, INSTALLATION, AND OPERATIONAL VERIFICATION OF ACCESS CONTROLLED DOOR SYSTEMS PRIOR TO ROUGH-IN.
I. NOT ALL DOOR DEVICES MAY BE SHOWN ON THIS SHEET. REFER TO DIVISION 08 DOOR HARDWARE SPECIFICATION FOR HARDWARE LISTING.
J. SEPARATE POWER SUPPLIES MAY BE REQUIRED. REFER TO DIVISION 08 DOOR HARDWARE SPECIFICATION AND MANUFACTURER REQUIREMENTS. DIVISION 26 CONTRACTOR SHALL PROVIDE POWER CIRCUIT AS REQUIRED.
K. ALL DOORS HAVING A CARD READER SHALL BE PROVIDED WITH DOOR CONTACT(S) AND A REQUEST-TO-EXIT SIGNALING DEVICE FOR DOOR STATUS/ DOOR FORCED NOTIFICATION CAPABILITY.
L. DOOR STATUS SWITCH LOCATION MAY REQUIRE ADJUSTMENT DUE TO DOOR HARDWARE INTERFERENCE. DOOR STATUS SWITCH SHALL BE INSTALLED AS CLOSE TO DOOR STRIKE SIDE OF FRAME AS POSSIBLE.
M. SECURITY AND DOOR HARDWARE CONTRACTORS SHALL PROVIDE PROPER DELAY/ SYNCHRONIZATION BETWEEN LOCKS, LATCHES, MAGNETIC LOCKS, AND AUTO OPERATORS AS PER DOOR HARDWARE SPECIFICATIONS OPERATIONAL NOTES.
N. ACCESS CONTROL JUNCTION BOX SHALL BE INSTALLED ON SECURE SIDE OF DOOR, IN AN ACCESSIBLE LOCATION. BOX SHALL BE MINIMUM 4X4 DEEP BOX WITH BLANK COVER PLATE. PROVIDE 1" MT PATHWAY FROM BOX TO SECURE SIDE OF WALL.
O. FIRE DROP RELAY SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR FOR DOOR HARDWARE AND POWER SUPPLIES REQUIRING A FIRE ALARM INTERFACE.
P. CEILING MOUNTED VIDEO SURVEILLANCE CAMERAS SHALL BE PROVIDED WITH A 15' CABLE SERVICE LOOP ABOVE CEILING AT CAMERA END.
Q. VIDEO SURVEILLANCE CAMERA SHOWN IN COMM ROOM FOR COORDINATION PURPOSES ONLY. CAMERA SHALL PATCH DIRECTLY INTO NETWORK SWITCH LOCATED WITHIN THIS ROOM. ADDITIONAL CABLING AND TERMINATION IS NOT REQUIRED.



1 FLOOR PLAN - LEVEL 01 - SECURITY
1/8" = 1'-0"



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ED EXPANSION

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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
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FACILITY NUMBER:
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AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE
B	DESIGN COORDINATION	2025/06/05
E	DESIGN COORDINATION	2025/07/30

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

FLOOR PLAN - LEVEL 01 - SECURITY

T04-01

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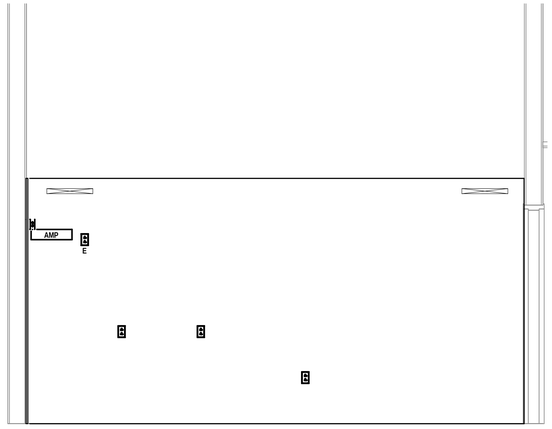

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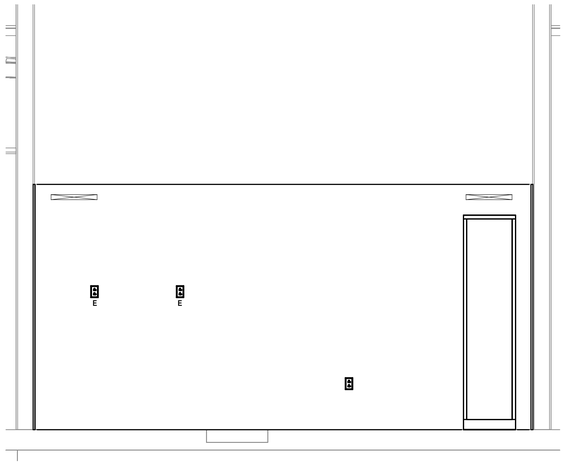
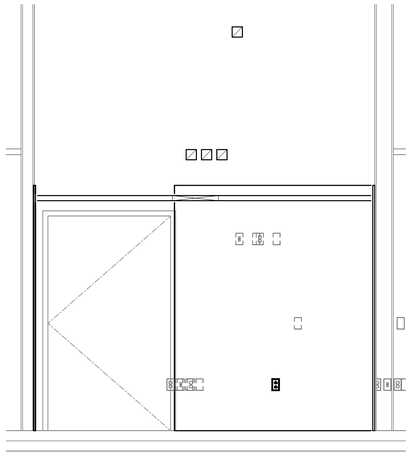
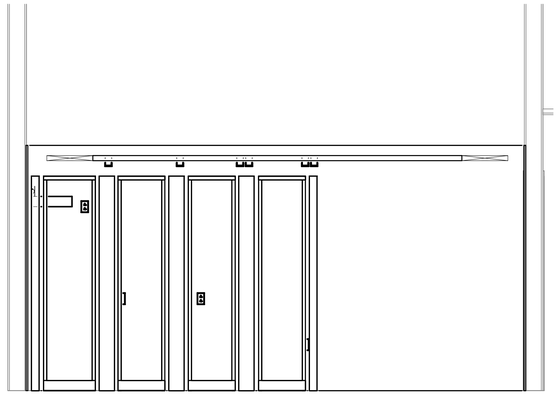


8 IDF 1-1460 ELEVATION 4
1/2" = 1'-0"

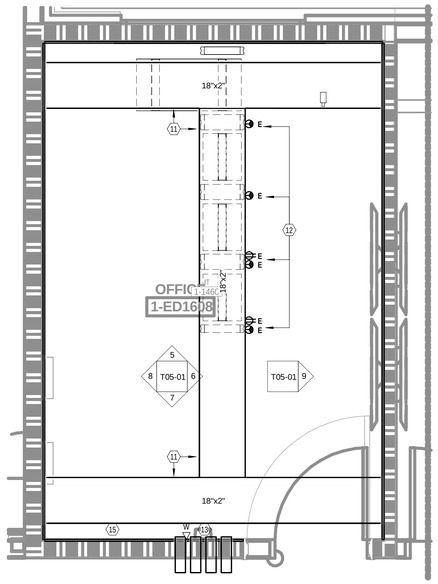


7 IDF 1-1460 ELEVATION 3
1/2" = 1'-0"

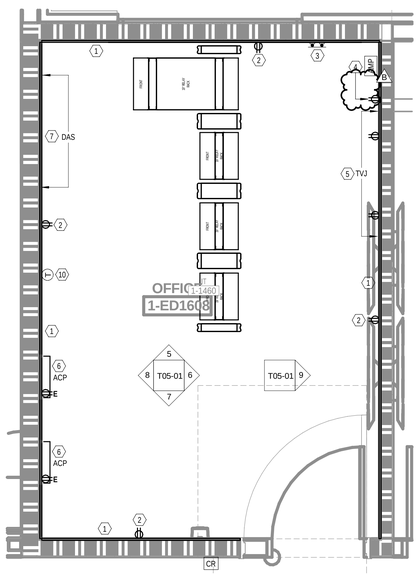


6 IDF 1-1460 ELEVATION 2
1/2" = 1'-0"

5 IDF 1-1460 ELEVATION 1
1/2" = 1'-0"



3 ENLARGED IT 1-1460 - UPPER
1/2" = 1'-0"



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:16

BASEMENT

1 TECHNOLOGY SYSTEMS BACKBONE RISER
NTS

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

STATE OF MISSOURI
MINDY SUSAN WHEELER
NUMBER PE-2017004125
PROFESSIONAL ENGINEER

04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	NTS
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

RISER DIAGRAM - TECHNOLOGY

T06-01

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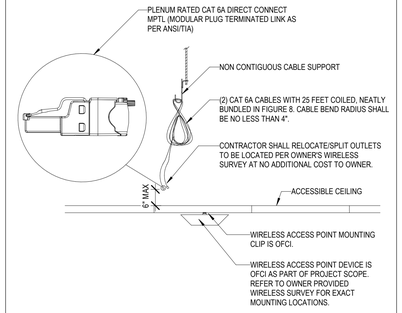
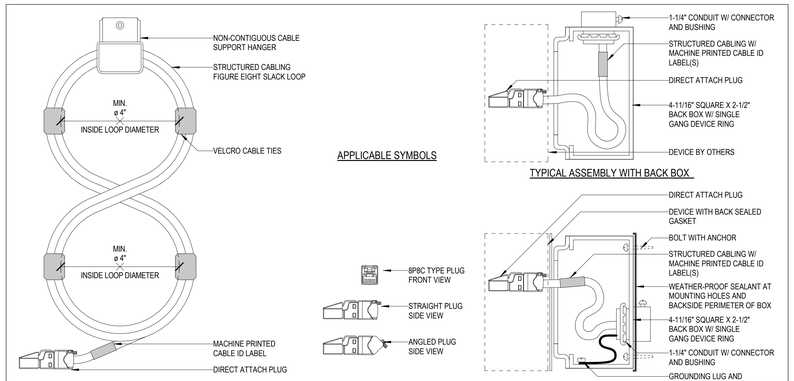
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
4/17/2025 9:17:16



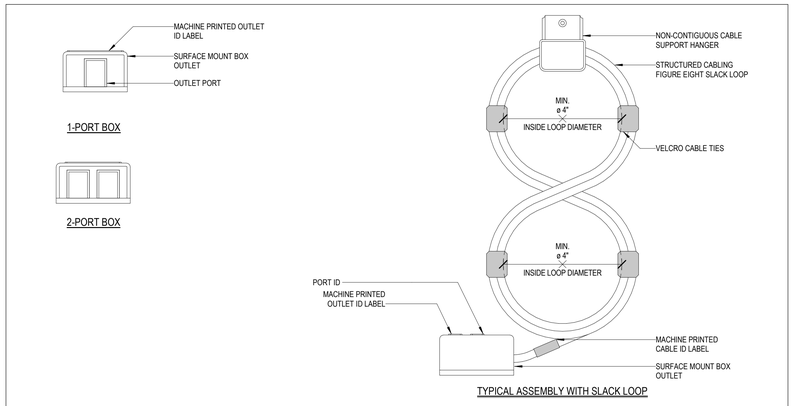
09 WIRELESS ACCESS POINT CONNECTION DETAIL

NOT TO SCALE



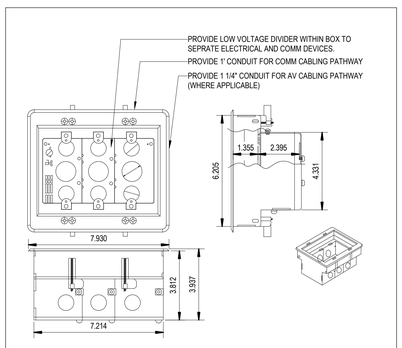
08 DIRECT ATTACH OUTLET

NOT TO SCALE



07 ABOVE CEILING OUTLET

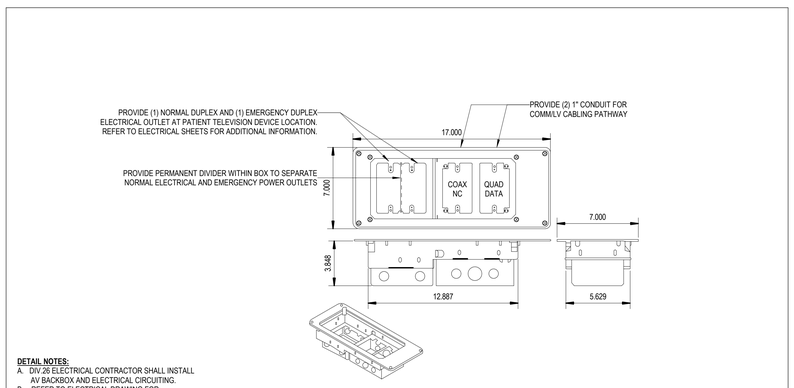
NOT TO SCALE



DETAIL NOTES:
A. DIV. 26 ELECTRICAL CONTRACTOR SHALL INSTALL AV BACKBOX AND ELECTRICAL CIRCUITING.
B. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
C. RECESSED AV BOX SHALL BE UTILIZED FOR ALL NON- CLINICAL TV, INFO. MONITOR, AND TRACKER LOCATIONS.

06 ARLINGTON RECESSED AV BOX (TVBS507) NON-CLINICAL TVS, INFO. MON., AND TRACKERS

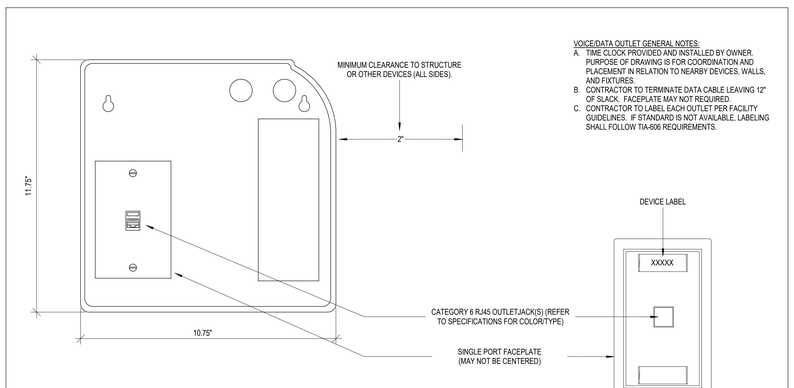
NOT TO SCALE



DETAIL NOTES:
A. DIV.26 ELECTRICAL CONTRACTOR SHALL INSTALL AV BACKBOX AND ELECTRICAL CIRCUITING.
B. REFER TO ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
C. RECESSED AV BOX SHALL BE UTILIZED FOR ALL PATIENT ROOM TELEVISION LOCATIONS.

05 ARLINGTON RECESSED AV BOX (TVBS613) PATIENT TELEVISIONS

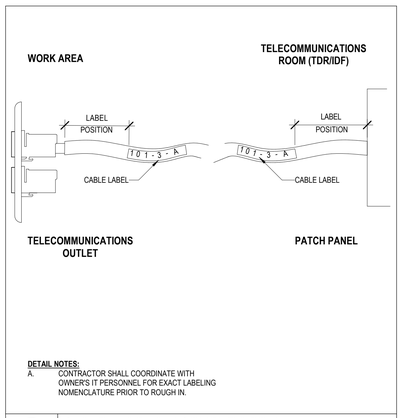
NOT TO SCALE



VOICE/DATA OUTLET GENERAL NOTES:
A. TIME CLOCK PROVIDED AND INSTALLED BY OWNER. PURPOSE OF DRAWING IS FOR COORDINATION AND PLACEMENT IN RELATION TO NEARBY DEVICES, WALLS, AND FIXTURES.
B. CONTRACTOR TO TERMINATE DATA CABLE LEAVING 12" OF SLACK. FACEPLATE MAY NOT REQUIRED.
C. CONTRACTOR TO LABEL EACH OUTLET PER FACILITY GUIDELINES. IF STANDARD IS NOT AVAILABLE, LABELING SHALL FOLLOW TIA-606 REQUIREMENTS.

04 TIMECLOCK OUTLET INSTALLATION REQUIREMENTS

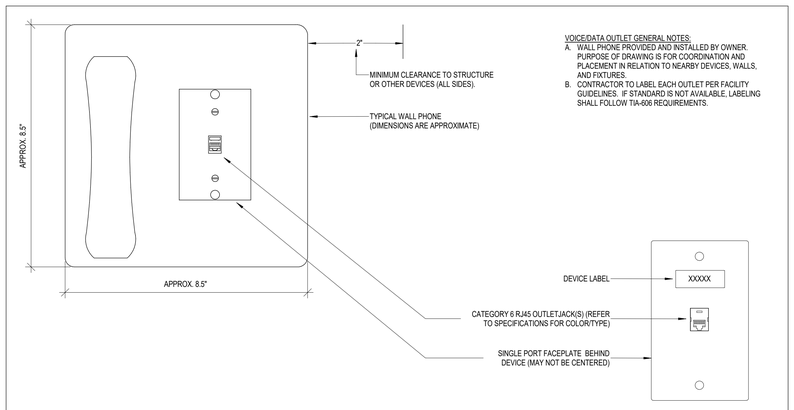
NOT TO SCALE



DETAIL NOTES:
A. CONTRACTOR SHALL COORDINATE WITH OWNER'S IT PERSONNEL FOR EXACT LABELING NOMENCLATURE PRIOR TO ROUGH IN.

03 CABLE LABEL PLACEMENT DETAIL

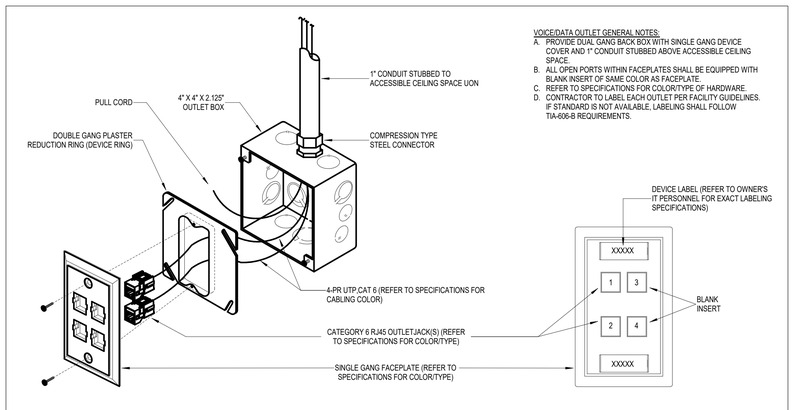
NOT TO SCALE



VOICE/DATA OUTLET GENERAL NOTES:
A. WALL PHONE PROVIDED AND INSTALLED BY OWNER. PURPOSE OF DRAWING IS FOR COORDINATION AND PLACEMENT IN RELATION TO NEARBY DEVICES, WALLS, AND FIXTURES.
B. CONTRACTOR TO LABEL EACH OUTLET PER FACILITY GUIDELINES. IF STANDARD IS NOT AVAILABLE, LABELING SHALL FOLLOW TIA-606 REQUIREMENTS.

02 WALL PHONE OUTLET INSTALLATION REQUIREMENTS

NOT TO SCALE



VOICE/DATA OUTLET GENERAL NOTES:
A. PROVIDE DUAL GANG BACK BOX WITH SINGLE GANG DEVICE COVER AND 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.
B. ALL OPEN PORTS WITHIN FACEPLATES SHALL BE EQUIPPED WITH BLANK INSERT OF SAME COLOR AS FACEPLATE.
C. REFER TO SPECIFICATIONS FOR COLOR/TYPE OF HARDWARE.
D. CONTRACTOR TO LABEL EACH OUTLET PER FACILITY GUIDELINES. IF STANDARD IS NOT AVAILABLE, LABELING SHALL FOLLOW TIA-606-B REQUIREMENTS.

01 WALL MOUNTED OUTLET

NOT TO SCALE

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
Scottsdale, AZ 85251

T: 602.943.8950

www.devenneygroup.com

Consultant:

300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017004125
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US00040241.3707

DETAILS - TECHNOLOGY

T07-01

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LEE'S SUMMIT, MISSOURI
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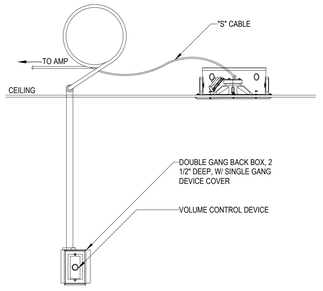
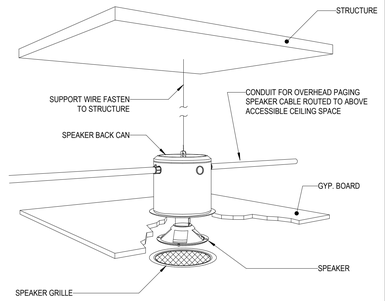


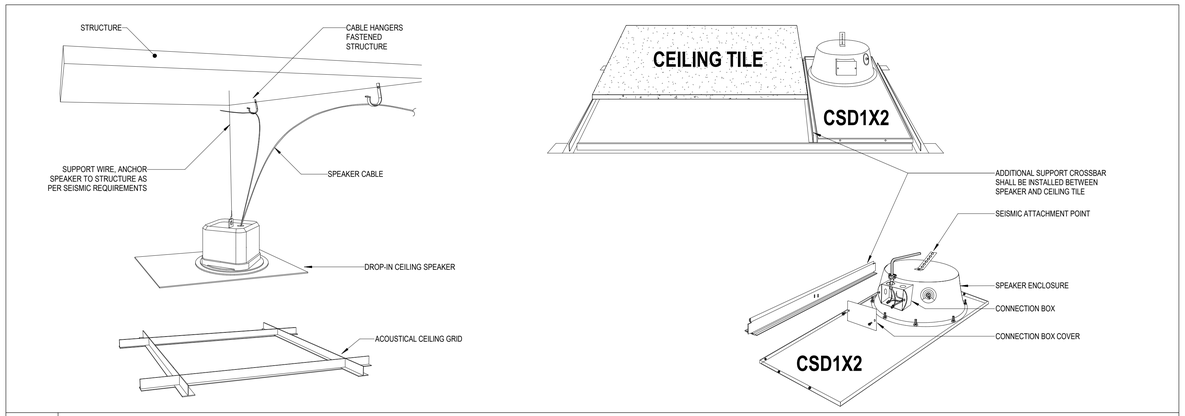
08 TYPICAL OVERHEAD PAGING SPEAKER W/VOLUME CONTROL

NOT TO SCALE



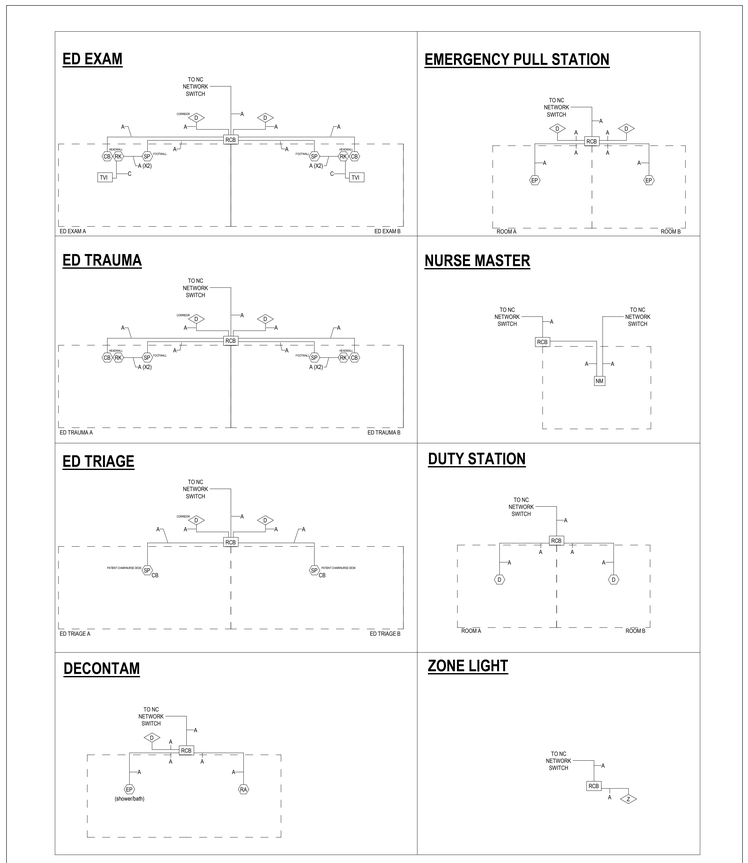
07 OVERHEAD PAGING SPEAKER IN HARDPAN CEILING

NOT TO SCALE



06 SURFACE MOUNTED OUTDOOR SPEAKER DETAIL

NOT TO SCALE



03 TYPICAL NURSE CALL IN-ROOM WIRING

NOT TO SCALE

APPLICABLE SYMBOLS

05 STANDARD CEILING MOUNTED DOME LIGHT

NOT TO SCALE

APPLICABLE SYMBOLS

04 ROOM CONTROL BOARD (RCB)

NOT TO SCALE

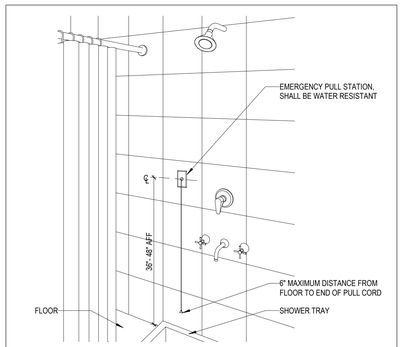
DETAIL NOTES:

A. RCB JUNCTION BOX SHALL BE SURFACE MOUNTED A MINIMUM OF 6" ABOVE ACCESSIBLE CEILING SPACE.

B. RCB JUNCTION BOX SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION WITHIN CORRIDOR. REFER TO FLOOR PLANS FOR SUGGESTED RCB LOCATIONS. CONTRACTOR SHALL DETERMINE BEST FIELD CONDITIONS FOR ACCESSIBILITY PRIOR TO ROUGH IN.

C. CONTRACTOR SHALL PROVIDE KNOCKOUTS, CONNECTORS AND BUSHINGS FOR CABLING PATHWAY INTO BACKBOX.

D. RCB DEVICE PROVIDED AND INSTALLED BY NURSE CALL SYSTEM VENDOR.



APPLICABLE SYMBOLS

DETAIL NOTES:

A. SHOWER STATION DEVICE SHALL BE WITHIN NORMAL VIEW OF THE USER AND WITHIN REACH OF STAFF WITHOUT THE NEED TO STEP INTO THE SHOWER OR TUB.

B. STATION SHALL BE LOCATED ON SAME WALL AS THE SHOWER HEAD TO MINIMIZE DIRECT EXPOSURE.

02 STANDARD SHOWER EMERGENCY PULL STATION

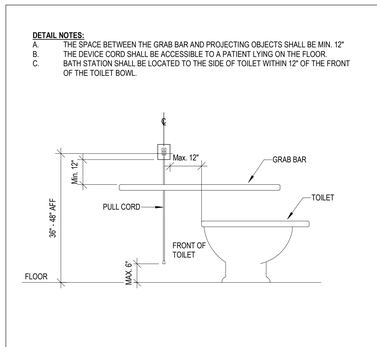
NOT TO SCALE

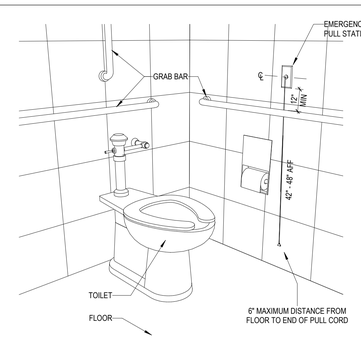
DETAIL NOTES:

A. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS SHALL BE MIN. 12"

B. THE DEVICE CORD SHALL BE ACCESSIBLE TO A PATIENT LYING ON THE FLOOR.

C. BATH STATION SHALL BE LOCATED TO THE SIDE OF TOILET WITHIN 12" OF THE FRONT OF THE TOILET BOWL.





APPLICABLE SYMBOLS

01 STANDARD LAVATORY EMERGENCY PULL STATION

NOT TO SCALE

Devenney Group Ltd., Architects

6900 East Camelback Road
Suite 500
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2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	3/32" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DETAILS - TECHNOLOGY

T07-02

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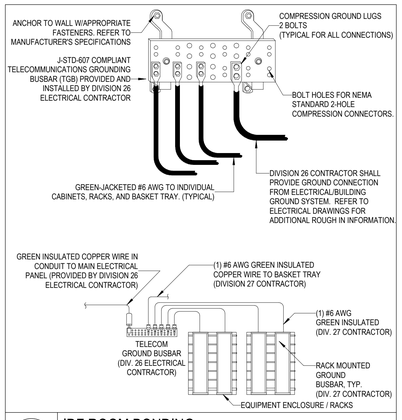
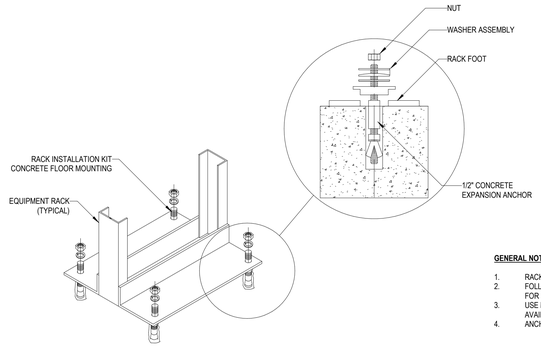
4/22/2025 1:43:56 PM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/7/2025 9:17:16



06 IDF ROOM BONDING

NOT TO SCALE

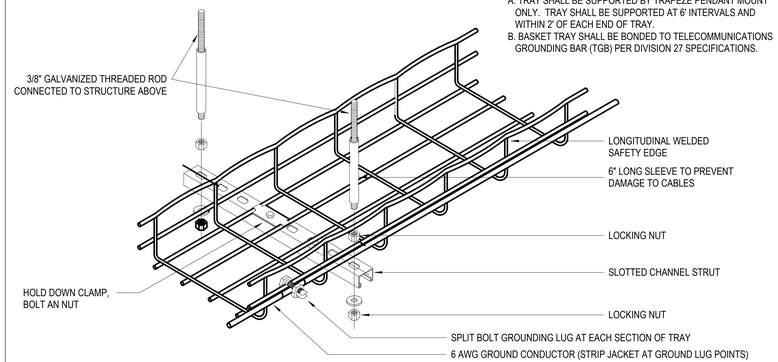


GENERAL NOTES:

1. RACK INTENTIONALLY NOT DRAWN TO SCALE.
2. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR ANCHORING RACK TO SLAB.
3. USE MANUFACTURERS ANCHORING KIT WHEN AVAILABLE.
4. ANCHOR RACK AT ALL FOUR CORNERS.

05 EQUIPMENT RACK FLOOR MOUNT INSTALLATION W/FLOOR ANCHOR DETAIL

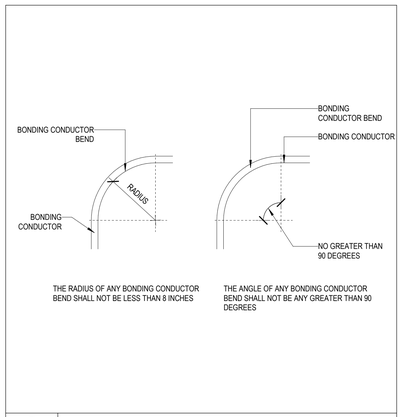
NOT TO SCALE



GENERAL NOTES:
A. TRAY SHALL BE SUPPORTED BY TRAPEZE PENDANT MOUNT ONLY. TRAY SHALL BE SUPPORTED AT 6' INTERVALS AND WITHIN 2' OF EACH END OF TRAY.
B. BASKET TRAY SHALL BE BONDED TO TELECOMMUNICATIONS GROUNDING BAR (TGB) PER DIVISION 27 SPECIFICATIONS.

04 BASKET TRAY MOUNTING

NOT TO SCALE

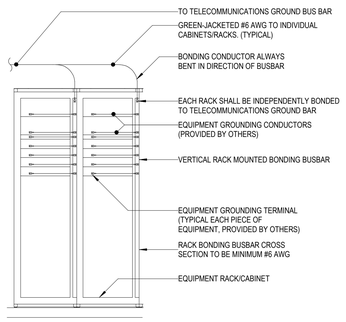


THE RADIUS OF ANY BONDING CONDUCTOR BEND SHALL NOT BE LESS THAN 8 INCHES

THE ANGLE OF ANY BONDING CONDUCTOR BEND SHALL NOT BE ANY GREATER THAN 90 DEGREES

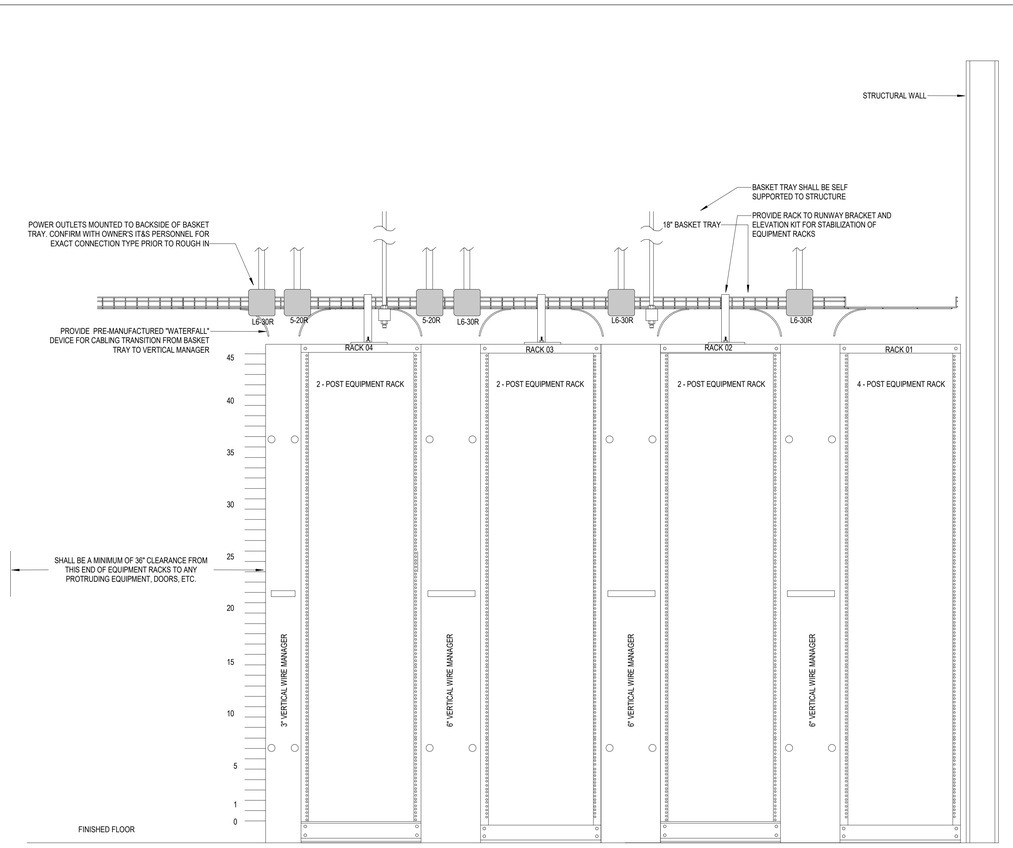
03 BONDING CONDUCTOR BENDING REQUIREMENTS

NOT TO SCALE



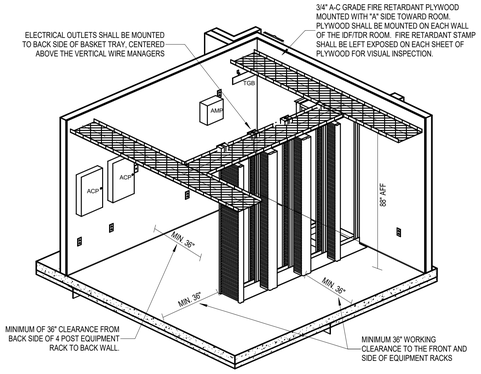
02 RACK BONDING DETAIL

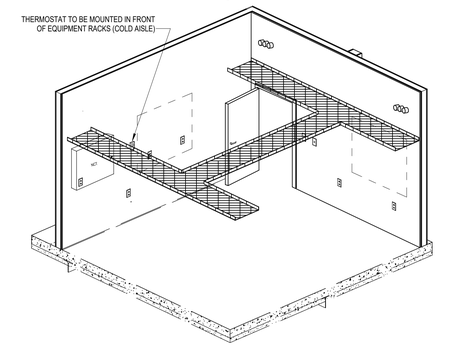
NOT TO SCALE



01 TT Room Detail - 04

NOT TO SCALE





RACK ELEVATION GENERAL NOTES:
A. ALL EQUIPMENT AND HARDWARE PLACEMENT WITHIN THE IDF/TDR ROOM SHALL BE CLOSELY COORDINATED WITH OWNER'S IT&S PERSONNEL PRIOR TO ROUGH IN.
B. DEVICE LABELING SCHEME SHALL BE COORDINATED WITH OWNER'S IT PERSONNEL PRIOR TO ROUGH IN.
C. WALL MOUNTED EQUIPMENT SHALL BE MOUNTED AT 72" AFF TO TOP OF PANEL/DEVICE, U.N.O.
D. TELECOMMUNICATIONS GROUND BAR SHALL BE MOUNTED AT 78" AFF TO TOP OF BAR.
E. ALL ACTIVE NETWORK EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY OWNER/OWNER VENDOR.
F. REFER TO ENLARGED FLOOR PLANS FOR EXACT ORIENTATION OF RACKS AND EQUIPMENT WITHIN ROOM.
G. HVAC THERMOSTAT DEVICE SHALL BE MOUNTED TO FRONT OF EQUIPMENT RACKS.

Devenney Group Ltd., Architects

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KANSAS CITY, MO 64105

STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017004125
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	As indicated
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DETAILS - TECHNOLOGY

T07-03

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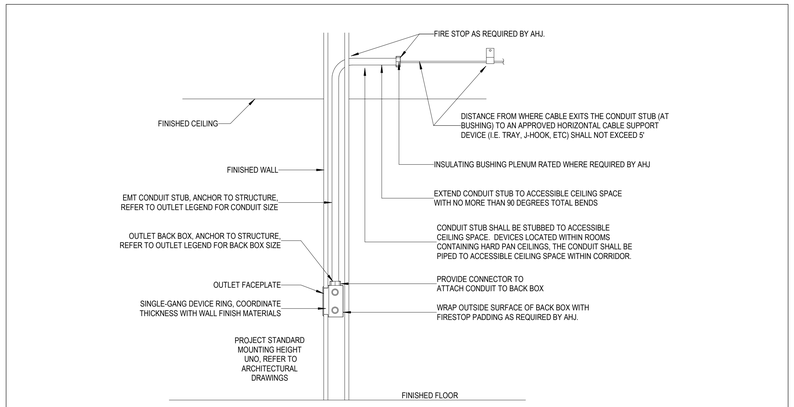
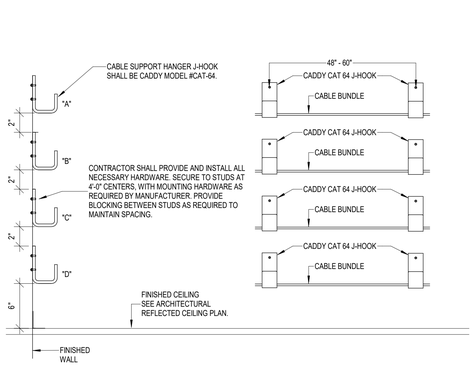
4/22/2025 1:43:59 PM

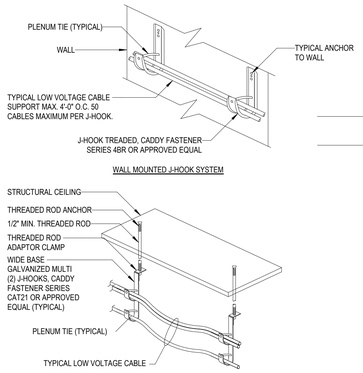
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:16



02 CONDUIT STUB-UP DETAIL

NOT TO SCALE

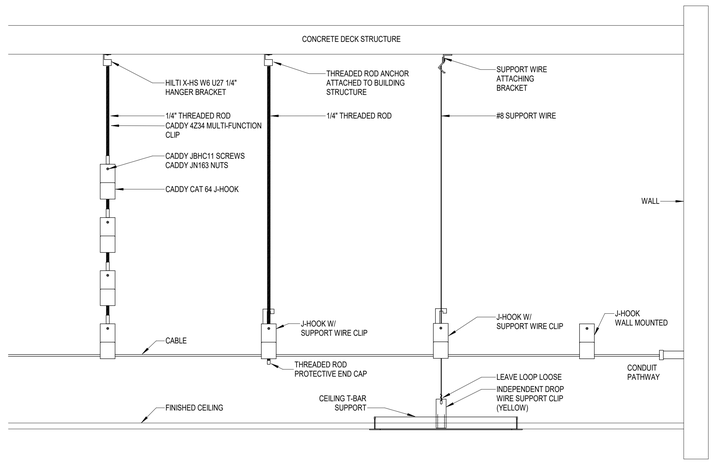




WALL MOUNTED J-HOOK SYSTEM

CEILING MOUNTED THREADED ROD J-HOOK SYSTEM

J-HOOK CABLE MOUNTING TECHNIQUES DETAIL



SYSTEM	CABLE COLOR	SUPPORT TYPE	CEILING ZONE	NOTES	S = SHARED NS = NOT SHARED
VOICE	BLACK	J-1 & J-5	1	CAT 6 FOR TELEPHONE, FAX, ANALOG, VOIP.	S
DATA	BLACK	J-1 & J-5	1	CAT 6 FOR IT&S NETWORK NEEDS: PC, PRINTERS, SCANNERS, TIME CLOCKS, PACS	
CCTV (SECURITY & CLINICAL)	BLACK	J-1 & J-5	1	CAT 6 FOR CCTV CAMERAS	
WAP	YELLOW	J-1 & J-5	1	CAT 6A FOR WIRELESS ACCESS POINTS (WAPS). Wi-Fi	
PHYSIOLOGICAL MONITORING (HARDWIRED)	ORANGE	J-2 & J-5	1	CAT 5E FOR HARD WIRED PHYSIOLOGICAL MONITORING (PM), CENTRAL STATIONS, REMOTE VIEW MONITORS, FETAL MONITORS	NS
TELEMETRY COAX (WIRELESS)	WHITE	J-3	2	RG6/RG11HARDLINE COAX CABLE FOR WIRELESS TELEMETRY DEVICES MOUNTED TO UNDERSIDE OF CEILING.	NS
CATV COAX	BLACK	J-4 & J-5	2	RG6/RG11 COAX CABLE FOR TV SYSTEM	S
CATV DATA	BLUE	J-4 & J-5	2	CAT 5E FOR TV SYSTEM	
NURSE CALL	GREEN	J-2 & J-5	2	CAT 5E AND MIX OF LOW VOLTAGE CONTROL CABLING FOR NURSE CALL SYSTEM.	NS
RFID/RTLS	PURPLE	J-3	2	CAT 5E, CAT 6 AND/OR LOW VOLTAGE CONTROL CABLING FOR EQUIPMENT/STAFF LOCATING/TRACKING SYSTEM.	NS
INFANT ABDUCTION	WHITE	J-3	2	CAT 5E, CAT 6 AND/OR LOW VOLTAGE CONTROL CABLING FOR INFANT ABDUCTION SYSTEM	
WONDERING SYSTEM	WHITE	J-3	2	CAT 5E, CAT 6 AND/OR LOW VOLTAGE CONTROL CABLING FOR WONDERING PATIENT TRACKING SYSTEM	NS
OVERHEAD PAGING	GREY	J-3	3	LOW VOLTAGE AUDIO CABLE FOR SPEAKERS, AMPS, MICROPHONES, ETC.	NS
DISTRIBUTED ANTENNA SYSTEM (DAS)	WHITE	J-3	3	COAX CABLE FOR DISTRIBUTED ANTENNA SYSTEM (DAS). CELL BOOSTING AND/OR EMERGENCY RESPONDER RADIO	NS
EMS RADIO	WHITE/ BLACK	J-3	3	COAX CABLE FOR COMMUNICATION BETWEEN EMS AND ED STAFF	NS
BAS	WHITE/ GREY	J-3	3	LOW VOLTAGE CONTROL WIRING FOR BUILDING AUTOMATION CONTROLS	NS
INTERCOM	GRAY	J-4	2	LOW VOLTAGE CONTROL CABLING FOR INTERCOM DEVICES SUCH AS AIPHONES	S
ELECTRONIC ACCESS CONTROL	WHITE	J-4	2	LOW VOLTAGE CONTROL CABLE FOR ELECTRONIC ACCESS CONTROL SYSTEM. CARD READERS, MAG LOCKS, ETC.	
DATA FIBER BACKBONE	YELLOW	J-1	3	FIBER OPTIC CABLE USED FOR NETWORK BACKBONE INFRASTRUCTURE	S
DATA COPPER BACKBONE	YELLOW	J-1	3	MULTI-PAIR COPPER CABLE USED FOR ANALOG/DIGITAL TELEPHONY BACKBONE INFRASTRUCTURE	

SUPPORT	SHORT DESCRIPTION
J-1	MAIN CABLE PATHWAY DOWN CORRIDORS. J-HOOK STYLE SUPPORT EITHER WALL MOUNTED OR SUPPORTED FROM OVERHEAD STRUCTURE. SHOULD BE SIZED BASED ON PRESENT NEED PLUS 30% FUTURE CAPACITY. CAN SUPPORT MULTIPLE SYSTEMS AS OUTLINED.
J-2	MAIN CABLE PATHWAY DOWN CORRIDORS. J-HOOK STYLE SUPPORT EITHER WALL OR CEILING MOUNTED FROM OVERHEAD STRUCTURE. SHOULD BE SIZED FOR PRESENT NEEDS PLUS 30% FUTURE CAPACITY. SHOULD BE DEDICATED TO ONE SYSTEM.
J-3	MAIN CABLE PATHWAY DOWN CORRIDORS. J-HOOK STYLE SUPPORT EITHER WALL OR CEILING MOUNTED FROM OVERHEAD STRUCTURE. SHOULD BE SIZED FOR PRESENT NEEDS WITH NO FUTURE CAPACITY. SHOULD BE DEDICATED TO ONE SYSTEM.
J-4	MAIN CABLE PATHWAY DOWN CORRIDORS. J-HOOK STYLE SUPPORT EITHER WALL OR CEILING MOUNTED FROM OVERHEAD STRUCTURE. SHOULD BE SIZED FOR PRESENT NEEDS PLUS 30% FUTURE CAPACITY. CAN SUPPORT MULTIPLE SYSTEMS AS OUTLINED.
J-5	J-HOOK STYLE SUPPORTS USED TO ROUTE CABLING FROM MAIN CABLE PATHWAY WITHIN CORRIDORS TO OUTLET LOCATION WITHIN ROOMS. SUPPORT MAY SUPPORT ALL LOW VOLTAGE CABLING, UNLESS REQUIRED OTHERWISE, THAT IS BEING ROUTED INTO THE SAME ROOMS.

CEILING ZONE DESCRIPTION	CEILING ZONE #
EASILY ACCESSIBLE FOR FREQUENT MOVES, ADDS, AND CHANGES. MAJORITY OF PATHWAY IS UNDER MOST ALL OTHER SYSTEMS.	1
NOT AS EASILY ACCESSIBLE AS ZONE #1 BUT STILL ACCESSIBLE FOR MOVES, ADDS, AND CHANGES. PATHWAY MAY BE ROUTED ABOVE SOME SYSTEMS BUT STILL ACCESSIBLE USING NORMAL MEANS. ZONE 2 WOULD BE CONSIDERED ABOVE ZONE #1.	2
NOT EASILY ACCESSIBLE. SYSTEMS THAT ARE NOT REGULARLY ACCESSED OR MODIFIED. MAJORITY OF PATHWAY CAN BE LOCATED ABOVE ALL SYSTEMS.	3

CABLE SUPPORT DETAIL NOTES:

A. ALL DEVICE ACCESSORY HARDWARE SHALL BE AS PROVIDED OR AS SPECIFIED BY MANUFACTURER.
B. ALL MOUNTING HARDWARE SHALL MEET OR EXCEED MANUFACTURER SPECIFICATIONS AND FEDERAL, STATE, AND LOCAL AHJ REQUIREMENTS.
C. MAXIMUM DISTANCE BETWEEN CABLE SUPPORTS FOR SHALL NOT EXCEED 4'0".
D. SEAL ALL PENETRATIONS THROUGH RATED WALLS WITH APPROVED SEALANT PER DIVISION 07 SPECIFICATIONS.
E. DIMENSIONS SHOWN ARE FOR COORDINATION PURPOSES ONLY. EXACT LOCATION OF ALL DEVICES SHALL BE VERIFIED IN THE FIELD.
F. SIZE J-HOOKS SO AS NOT TO EXCEED MANUFACTURER FILL LIMITS BASED ON PRESENT NEEDS.
G. CABLE TO BE SECURED TO J-HOOKS UTILIZING ANSI/TIA AND/OR BICSI STANDARDS IN ORDER TO REDUCE PINCH POINTS AND OTHER DETRIMENTAL EFFECTS ON CABLE.
H. WHERE ROUTE CROSSES CORRIDORS, PROVIDE J-HOOKS MOUNTED ON THREADED ROD.
I. WITHIN FIFTY FEET OF ANY TELECOMMUNICATIONS ROOM, SPACING FOR THESE J-HOOKS SHALL BE REDUCED TO 1' - 4' CENTERS.

01 J-HOOK MOUNTING DETAILS

NOT TO SCALE

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MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	3/32" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

DETAILS - TECHNOLOGY

T07-04

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DEVELOPMENT SERVICES
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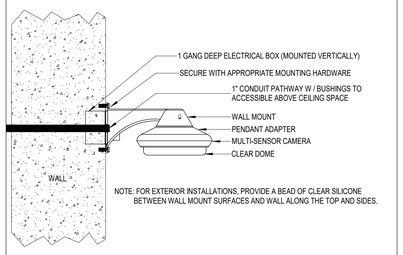
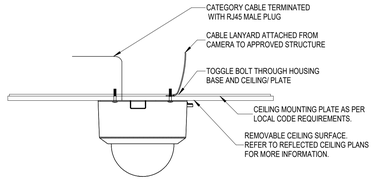


EQUIPMENT

3-LENS: 15C-H5A-3MH	4-LENS: 15C-H5A-4MH 3/4 XS MP, WDR,LIGHTCATCHER, 2.8mm, CAMERA ONLY
WLMT-1001	WALL MOUNT
H5AMH-AD-PEND1	PENDANT ADAPTER
H5AMH-DO-COVR1	DOME BUBBLE AND COVER, OUTDOOR, CLEAR

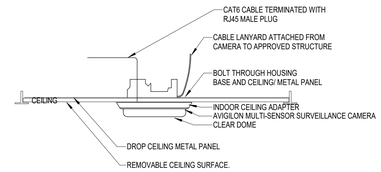
08 MULTI-LENS OUTDOOR MOUNT

NOT TO SCALE



07 SINGLE LENS CAMERA - LAY-IN CEILING MOUNT

NOT TO SCALE

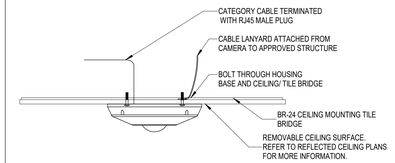


EQUIPMENT

3-LENS: 15C-H5A-3MH	4-LENS: 15C-H5A-4MH 3/4 XS MP, WDR,LIGHTCATCHER, 2.8mm, CAMERA ONLY
H5AMH-AD-CEIL1	INDOOR CEILING ADAPTER
CLPNL-1001	DROP CEILING METAL PANEL
H5AMH-DC-COVR1	DOME BUBBLE AND COVER, FOR IN-CEILING MOUNT, CLEAR

06 MULTI-LENS - INDOOR CEILING MOUNT

NOT TO SCALE

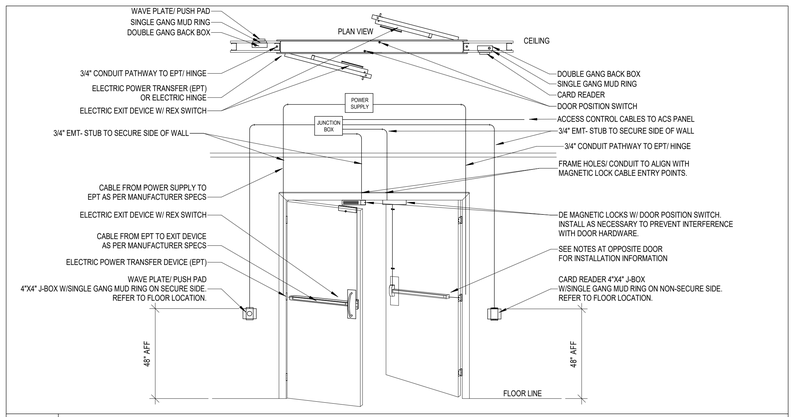


EQUIPMENT:

120W-H5A-FE-DO1-IR	12.0 MP, FISHEYE DOME CAMERA, DAY/ NIGHT
CTB-24	GARVIN CEILING TILE BRDG MNTNG SLDE BR 24

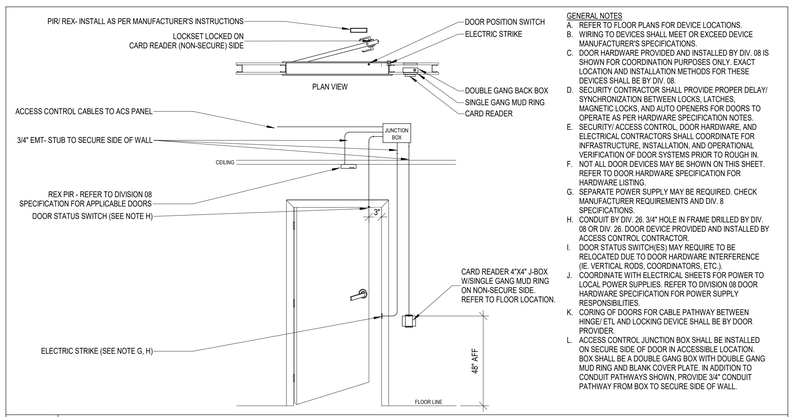
05 FISH-EYE - CEILING MOUNT

NOT TO SCALE



04 DOUBLE DOOR - ELECTRIC EXIT DEVICES & DE MAGNETIC LOCKS

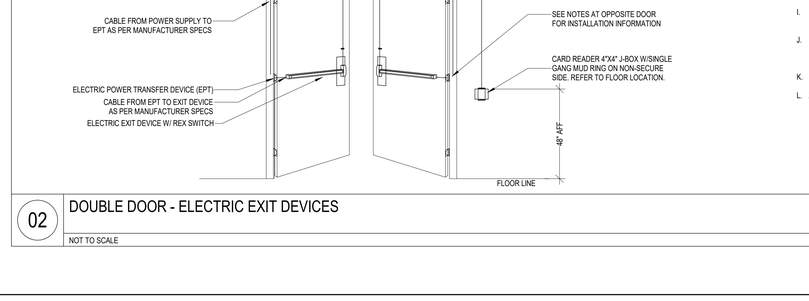
NOT TO SCALE



GENERAL NOTES
A. REFER TO FLOOR PLANS FOR DEVICE LOCATIONS.
B. WIRING TO DEVICES SHALL MEET OR EXCEED DEVICE MANUFACTURER'S SPECIFICATIONS.
C. DOOR HARDWARE PROVIDED AND INSTALLED BY DIV. 08 IS SHOWN FOR COORDINATION PURPOSES ONLY. EXACT LOCATION AND INSTALLATION METHODS FOR THESE DEVICES SHALL BE BY DIV. 08.
D. SECURITY CONTRACTOR SHALL PROVIDE PROPER DELAY/ SYNCHRONIZATION BETWEEN LOCKS, LATCHES, MAGNETIC LOCKS, AND AUTO OPENERS FOR DOORS TO OPERATE AS PER HARDWARE SPECIFICATION NOTES.
E. SECURITY/ ACCESS CONTROL, DOOR HARDWARE, AND ELECTRICAL CONTRACTORS SHALL COORDINATE FOR INFRASTRUCTURE, INSTALLATION, AND OPERATIONAL VERIFICATION OF DOOR SYSTEMS PRIOR TO ROUGH IN.
F. NOT ALL DOOR DEVICES MAY BE SHOWN ON THIS SHEET. REFER TO DOOR HARDWARE SPECIFICATION FOR HARDWARE LISTING.
G. SEPARATE POWER SUPPLY MAY BE REQUIRED. CHECK MANUFACTURER REQUIREMENTS AND DIV. 8 SPECIFICATIONS.
H. CONDUIT BY DIV. 26. 3/4" HOLE IN FRAME DRILLED BY DIV. 08 OR DIV. 26. DOOR DEVICE PROVIDED AND INSTALLED BY ACCESS CONTROL CONTRACTOR.
I. DOOR STATUS SWITCH(ES) MAY REQUIRE TO BE RELOCATED DUE TO DOOR HARDWARE INTERFERENCE (IE. VERTICAL RODS, COORDINATORS, ETC.).
J. COORDINATE WITH ELECTRICAL SHEETS FOR POWER TO LOCAL POWER SUPPLIES. REFER TO DIVISION 08 DOOR HARDWARE SPECIFICATION FOR POWER SUPPLY RESPONSIBILITIES.
K. CORING OF DOORS FOR CABLE PATHWAY BETWEEN HINGE/ ETL AND LOCKING DEVICE SHALL BE BY DOOR PROVIDER.
L. ACCESS CONTROL JUNCTION BOX SHALL BE INSTALLED ON SECURE SIDE OF DOOR IN ACCESSIBLE LOCATION. BOX SHALL BE A DOUBLE GANG BOX WITH DOUBLE GANG MUD RING AND BLANK COVER PLATE. IN ADDITION TO CONDUIT PATHWAYS SHOWN, PROVIDE 3/4" CONDUIT PATHWAY FROM BOX TO SECURE SIDE OF WALL.

03 SINGLE DOOR - ELECTRIC STRIKE

NOT TO SCALE



GENERAL NOTES
A. REFER TO FLOOR PLANS FOR DEVICE LOCATIONS.
B. WIRING TO DEVICES SHALL MEET OR EXCEED DEVICE MANUFACTURER'S SPECIFICATIONS.
C. DOOR HARDWARE PROVIDED AND INSTALLED BY DIV. 08. HARDWARE IS SHOWN FOR COORDINATION PURPOSES ONLY. EXACT LOCATION AND INSTALLATION METHODS FOR THESE DEVICES SHALL BE BY DIV. 08.
D. DIVISION 28 CONTRACTOR SHALL PROVIDE PROPER DELAY/SYNCHRONIZATION BETWEEN LOCKS, LATCHES, MAGNETIC LOCKS, AND AUTO OPENERS FOR DOORS TO OPERATE AS PER HARDWARE SPECIFICATION NOTES.
E. DIVISION 08, 26 AND 28 CONTRACTORS SHALL COORDINATE FOR INFRASTRUCTURE, INSTALLATION, AND OPERATIONAL VERIFICATION OF DOOR SYSTEMS PRIOR TO ROUGH IN.
F. NOT ALL DOOR DEVICES MAY BE SHOWN ON THIS SHEET. REFER TO DOOR HARDWARE SPECIFICATION FOR HARDWARE LISTING.
G. SEPARATE POWER SUPPLY MAY BE REQUIRED. CHECK MANUFACTURER REQUIREMENTS AND DIV. 8 SPECIFICATIONS.
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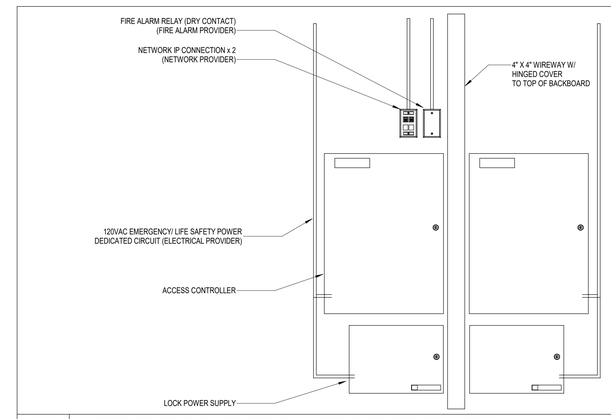
02 DOUBLE DOOR - ELECTRIC EXIT DEVICES

NOT TO SCALE



01 ACCESS CONTROL PANEL SETUP W/ SEPARATE POWER SUPPLY

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STATE OF MISSOURI
MINDY SUSAN WHEELER
NUMBER PE-2017004125
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
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DETAILS - TECHNOLOGY

T07-05

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TECHNOLOGY SYSTEMS EQUIPMENT AND STRUCTURED CABLING COORDINATION SCHEDULE

SYSTEM	EQUIPMENT			CABLING					ROUGH IN						GROUNDING
	EQUIPMENT FURNISHED BY	EQUIPMENT INSTALLED BY	TEST/CERTIFIED BY	CABLE FURNISHED BY	CABLE INSTALLED BY	CABLE TERMINATIONS BY	LABELED BY	TEST/CERTIFIED BY	CONDUIT SLEEVES BY (NOTE 3)	CONDUIT PATHWAYS BY (NOTE 4)	PRE-MANUFACTURED FIRE SLEEVE BY (NOTE 5)	BACK BOXES PROVIDED BY	BACK BOXES INSTALLED BY (NOTE 6)	FLOOR/WALL CORES/SLEEVES BY (NOTE 7)	CONNECTION TO TGB BY
IT&S SYSTEMS - VOICE/DATA															
IT&S/VOICE EQUIPMENT (WORKSTATION) (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
IT&S/DATA EQUIPMENT (WORKSTATION) (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
WIRELESS ACCESS POINT (WAP)	OWNER	DIV 27	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
IT&S/DATA EQUIPMENT (TEC/TDR)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IT&S/VOICE EQUIPMENT (TEC/TDR)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WORKSTATION / EQUIPMENT PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MEDICAL EQUIPMENT NETWORK CONNECTED DEVICES (NOTE 9)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
TIME CLOCK (EMPLOYEE)	OWNER	GC	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
NURSE CALL/CODE BLUE															
STATION DEVICES	NC	NC	NC	DIV 27	DIV 27	NC	NC	NC	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
HEADEND CABINET (IF APPLICABLE)	NC	NC	NC	DIV 27	DIV 27	NC	NC	NC	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
NETWORK SWITCHES (IF APPLICABLE)	NC	NC	NC	DIV 27	DIV 27	NC	NC	NC	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
CALL CORD/PILLOW SPEAKERS	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CATV SYSTEMS															
COAXIAL CABLE	N/A	N/A	N/A	DIV 27	DIV 27	TV	TV/DIV 27	TV	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	TV
DATA CABLE	N/A	N/A	N/A	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
CROSS ROOM NURSE CALL CONTROL	TV	TV	TV	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	N/A	DIV 26	DIV 26	N/A	N/A
TV OUTLET COVER PLATE	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TELEVISIONS (PATIENT, WAITING, STAFF LOUNGE, ETC.)	TV	TV	TV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TELEVISION WALL MOUNTING BRACKET	TV	GC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CATV EQUIPMENT (SPLITTERS/COMBINERS/AMPLIFIERS)	TV	TV	TV	N/A	N/A	N/A	TV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TV
CROSS CONNECTS/PATCH CORD	TV	TV	TV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SECURITY SYSTEMS															
NVR/DVR	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
SURVEILLANCE CAMERAS/MOUNTS/LICENSES	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
NETWORK SWITCHES	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ELECTRONIC ACCESS CONTROL SYSTEM	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	DIV 26	N/A
DOOR HARDWARE	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	DIV 08	N/A	N/A	DIV 26	N/A	DIV 26	DIV 26	N/A	N/A
WIRELESS PANIC BUTTON (IF APPLICABLE)	PB	PB	PB	N/A	N/A	N/A	PB	PB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WIRED PANIC BUTTON (IF APPLICABLE)	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	N/A	N/A
INFANT PROTECTION	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	N/A
INTRUSION DETECTION	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	N/A	N/A
EMERGENCY (BLUE) PHONE	GC	GC	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26/27	DIV 26	DIV 27	DIV 26	DIV 26	N/A	DIV 26
INTERCOM	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26	DIV 28	DIV 26	DIV 26	DIV 26	N/A
OVERHEAD PAGING SYSTEM															
SPEAKERS/HORNS	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
AMPLIFIERS	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27
VOLUME CONTROL	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
TELEPHONE ACCESS EQUIPMENT	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
ZONE DISTRIBUTION EQUIPMENT (IF APPLICABLE)	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
PATIENT MONITORING SYSTEM															
PHYSIOLOGICAL MONITORING (PM)	PM	PM	PM	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
FETAL MONITORING (FM)	PM	PM	PM	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
TELEMETRY	PM	PM	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	N/A
NETWORK SWITCHES	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TELECOMMUNICATIONS ROOMS (TEC/TDR)															
OPEN FRAME EQUIPMENT RACKS (2POST/4POST)	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27
ENCLOSED EQUIPMENT CABINETS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27
BASKET TRAY & SUPPORT HARDWARE	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27
FIRE RATED PLYWOOD BACKBOARDS	DIV 26	DIV 26	DIV 26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CABLE MANAGEMENT (VERTICAL/HORIZONTAL)	DIV 27	DIV 27	DIV 27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DIV 27
UNINTERRUPTIBLE POWER SUPPLY (UPS)	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NETWORK SWITCHES, SERVERS, & ADDITIONAL NETWORK GEAR EQUIP.	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
TELEPHONE SYSTEM EQUIPMENT	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	OWNER
CROSS CONNECTS/PATCH CORDS	OWNER	OWNER	OWNER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GROUNDING/BONDING															
TELECOMMUNICATIONS BONDING BACKBONE (TBB)	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	N/A	N/A	DIV 26	DIV 26
TELECOMMUNICATIONS GROUNDING BUSS BAR (TGB)	DIV 26	DIV 26	DIV 26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MISC. SYSTEMS															
SYNCHRONIZED CLOCK SYSTEMS	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	DIV 26 OR 27	N/A	N/A	N/A	DIV 26	DIV 26	N/A	N/A
REAL TIME LOCATING SYSTEM (RTLS)	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
DISTRIBUTED ANTENNA SYSTEMS (DAS)	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER
EMERGENCY RESPONDER RADIO COMMUNICATIONS (ERRCS)	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER
TEMPERATURE MONITORING SYSTEM	OWNER	OWNER	OWNER	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 27	DIV 26	DIV 27	DIV 26	DIV 26	DIV 26	N/A
EMS RADIO	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	N/A

NOTES:
1. ALL SYSTEMS SHOWN MAY NOT BE PRESENT IN PROJECT. REFER TO FLOOR PLANS FOR SYSTEMS INCLUDED IN PROJECT.
2. INCLUDES CONDUIT SLEEVES, NOT TO EXCEED 18 INCHES IN LENGTH, THROUGH GYPSUM PARTITIONS. SLEEVES EXCEEDING 18" IN LENGTH SHALL BE PROVIDED BY DIV 26 CONTRACTOR.
3. INCLUDES CONDUIT PATHWAY EXCEEDING 18 INCHES IN LENGTH. INCLUDES ALL NECESSARY CONNECTIONS, PULL BOXES, AND PLASTIC BUSHINGS.
4. INCLUDES PRE-MANUFACTURED FIRE SLEEVE SYSTEMS.
5. INCLUDES REQUIRED CONDUIT STUB UP TO ABOVE ACCESSIBLE CEILING SPACE.
6. INCLUDES SLEEVES THROUGH CONCRETE/MASONRY WALLS REQUIRING CORING OR LEAVE-OUTS.
7. CROSS ROOM SOUND CABLE TERMINATED BY NURSE CALL VENDOR AT PATIENT STATION. DIV 27 CONTRACTOR SHALL TERMINATE CROSS ROOM SOUND CABLE AT TV OUTLET AND PROVIDE FACEPLATE.
8. LIGHTING CONTROL CABLE TERMINATED BY NURSE CALL VENDOR AT PATIENT STATION. NURSE CALL VENDOR SHALL PROVIDE DIV 26 CONTRACTOR LIGHTING CONTROL RELAY. DIV 26 CONTRACTOR SHALL CONNECT RELAY WITH LIGHT.
9. VOICE/DATA WORKSTATION & MEDICAL EQUIPMENT DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
   A. PCS; B. PRINTERS (NETWORK, LASER, MULTIFUNCTION, LAB, SCRIPT, ETC.); C. FAX MACHINES; D. COPIERS; E. TRACKER MONITORS; F. TIME CLOCK (EMPLOYEE); G. WIRELESS ACCESS POINTS; H. TELEPHONE SETS; I. MED DISPENSERS; J. SCANNERS; K. LAB EQUIPMENT (STERILIZERS, ETC.); L. POINT OF USE (POU) SCANNER; M. ULTRA SOUND MACHINE; N. ADDITIONAL MEDICAL EQUIPMENT

ABBREVIATIONS:
- DIV 08 - DOOR HARDWARE CONTRACTOR
- DIV 26 - ELECTRICAL CONTRACTOR
- DIV 27 - COMMUNICATIONS CABLING CONTRACTOR
- DIV 28 - ELECTRONIC ACCESS CONTROL/SECURITY CONTRACTOR
- OWNER - OWNER OR OWNER'S VENDOR
- NC - NURSE CALL VENDOR
- PB - CENTURION PANIC BUTTON VENDOR
- ME - MEDICAL EQUIPMENT PLANNER
- TV - TELEVISION VENDOR
- SP - SERVICE PROVIDER
- GC - GENERAL CONTRACTOR
- PM - PHYSIOLOGICAL MONITORING VENDOR
- N/A - NOT APPLICABLE
- TEC - TELECOMMUNICATIONS EQUIPMENT ROOM / MDF
- TDR - TELECOMMUNICATIONS DISTRIBUTION ROOM / IDF

Notice of Alternate Billing or Payment Cycle: The Owner may plan to make payments on an alternative schedule. A written description of such billing or payment cycle applicable to the Project is available from the Owner or the Owner's designated agent upon request.

Devenney Group Ltd., Architects

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Scottsdale, AZ 85251

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Consultant:
WSP
300 WYANDOTTE, SUITE 200
KANSAS CITY, MO 64105

STATE OF MISSOURI
WENDY SUSAN WHEELER
NUMBER PE-2017004125
PROFESSIONAL ENGINEER
04/18/2025
WSP USA Buildings Inc. 2013001881

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ED EXPANSION

HCA - LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063

AUTHORITY HAVING JURISDICTION:
CITY OF LEE'S SUMMIT BUILDING DEPT.
MISSOURI DHSS

FACILITY NUMBER:
0972400011

AGENCY APPROVALS:
AGENCY

REVISIONS		
REV #	DESCRIPTION	DATE

DATE:	04/18/25
SCALE:	1/8" = 1'-0"
DRAWN:	WSP
REVIEWED:	WSP
JOB NUMBER:	US0040241.3707

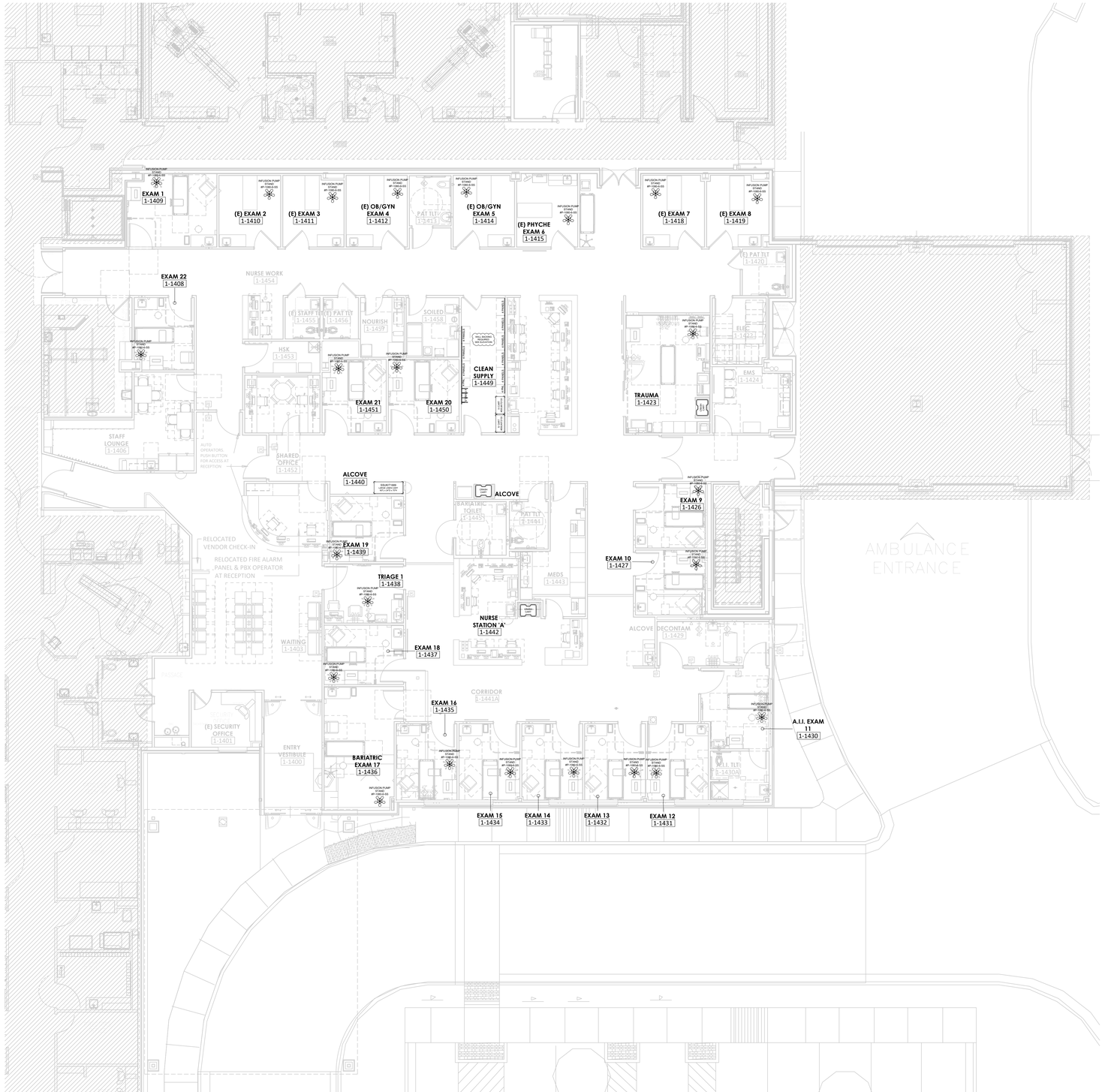
SCHEDULES - TECHNOLOGY

T08-01

4/22/2025 1:44:05 PM Autodesk Docs://6406.24 - HCA - Lee's Summit Medical Center (LSMC)_xyz23/MEP_ LSMC ED Expansion_R23.rvt

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:17

ARCH. FIRM: DEVENEY GROUP LTD. ARCHITECTS



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ARCH. DATE: 03-07-2025
PROJ. MANAGER: CA
DWN. BY: DB
SCALE: 1/8"=1'-0"

SS REV. -

FOR REFERENCE ONLY

LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063
ED EXPANSION

ISSUE DATE: 2025/04/18

STORAGE SYSTEMS LAYOUT

QUOTE #: 150244

DRAWING #

SS-1

30x42

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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/17/2025 9:17:17

ARCH. FIRM: DEVENEY GROUP LTD. ARCHITECTS

#CRASH CART

TO BE DETERMINED

Room
1-1423
1-1442
ALCOVE

#P-1080-6-SS

INFUSION PUMP STAND
6 HOOK, 5-LEG BASE
STAINLESS STEEL
PEDIGO

Room
1-1408
1-1409
1-1410
1-1411
1-1412
1-1414
1-1415
1-1418
1-1419
1-1423
1-1426
1-1427
1-1430
1-1431
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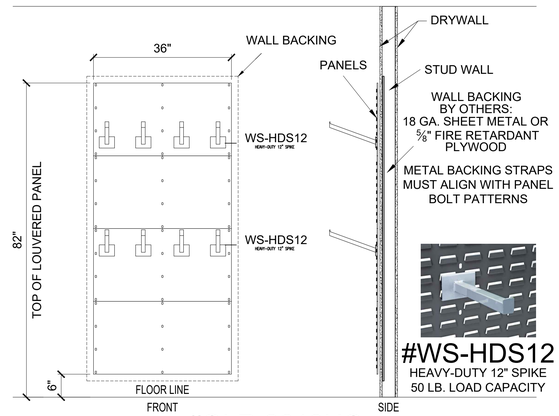
1-1451



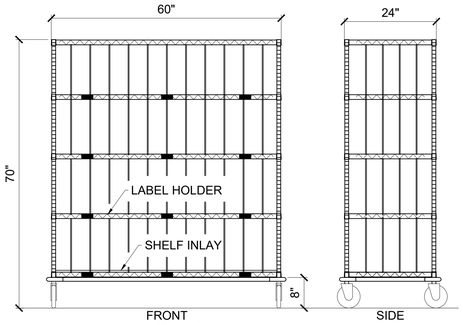
#WS-HDS12

HEAVY-DUTY 12" SPIKE
50 LB. LOAD CAPACITY

#QLP-3619HC

FOUR "STACK" OF LOUVERED PANELS 36"W x 19"H EA.
ELEVATION AND RECOMMENDED MOUNTING DETAILS.
W/ #WS-HDS12 HEAVY-DUTY 12" SPIKES

Room
1-1449



#SSUKIT1669

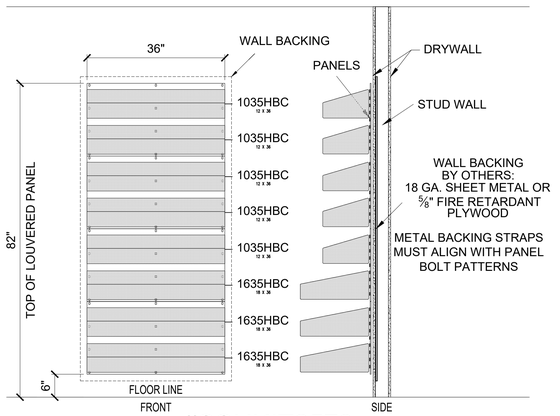
LARGE LINEN CART
60"L x 24"D x 70"H
5 SHELVES WITH GUARD,
COVER & DOLLY BASE

Room
1-1140

#SSUKIT2133

IV WIRE CART
36"W x 18"D x 69"H
W/ 5 BASKETS & DIVIDERS

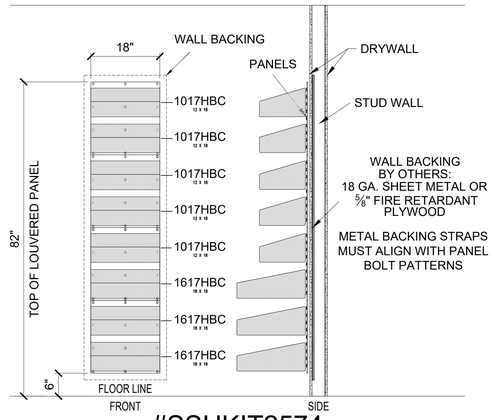
Room
1-1449



#SSUKIT2573

FOUR "STACK" OF LOUVERED PANELS 36"W x 19"H EA.
ELEVATION AND RECOMMENDED MOUNTING DETAILS.
W/ WIRE BASKETS, DIVIDERS, & LABEL HOLDERS
BOTTOM BASKET HAS SHELF LINER

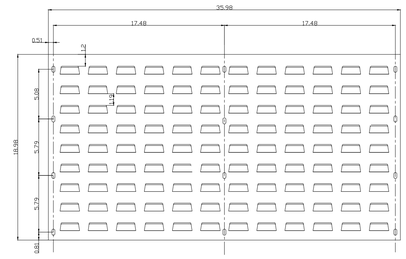
Room
1-1449



#SSUKIT2574

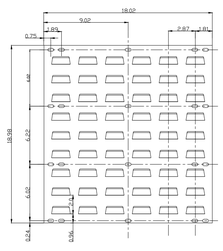
FOUR "STACK" OF LOUVERED PANELS 18"W x 19"H EA.
ELEVATION AND RECOMMENDED MOUNTING DETAILS.
W/ WIRE BASKETS, DIVIDERS, & LABEL HOLDERS
BOTTOM BASKET HAS SHELF LINER

Room
1-1449



#36x19 PANEL

EXAMPLE OF THE 36"X19" LOUVERED PANEL
BOLT PATTERN



#18x19 PANEL

EXAMPLE OF THE 18"X19" LOUVERED PANEL
BOLT PATTERN

ARCHITECT / CONTRACTOR NOTE:

1. VERIFY LOCKER LOCATION TO A HEIGHT OF 84" AFF IS FREE AND CLEAR OF ANY OBSTRUCTIONS SUCH AS; CLOCKS, TELEPHONE JACKS, ELECTRICAL OUTLETS, LIGHT SWITCHES, FIRE ALARMS, THERMOSTATS, CALL BOXES, ETC...
2. CLARIFY ALL OBSTRUCTIONS WITH A DESCRIPTION AND DIMENSION TO THE OBSTRUCTION.

INSTALLER NOTE:

1. VERIFY CEILING HEIGHTS.
2. RETURN ALL INFORMATION TO STORAGE SYSTEMS UNLIMITED WITH ANY OTHER PERTINENT INFORMATION.
3. VERIFY ALL ROOM DIMENSIONS INCLUDING DOOR OPENINGS, WINDOW OPENINGS, AND COLUMNS.

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ARCH. DATE: 03-07-2025
PROJ. MANAGER: CA
DWN. BY: DB
SCALE: NTS

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LEE'S SUMMIT MEDICAL CENTER
2100 SE BLUE PKWY LEE'S SUMMIT, MO 64063
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ISSUE DATE: 03-25-2025

ELEVATIONS

QUOTE #: 150244

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