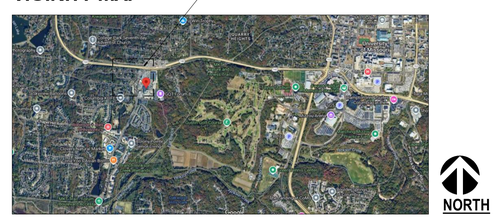
EAST CENTRAL COLLEGE

East Central College
Respiratory Care Program
1400 Forum Blvd
Columbia, MO 65203

VICINITY MAP



LOCATOR MAP

DRAWING INDEX

DRAWING NUMBER	SHEET NAME	CURRENT REV	90% CD SET	100% CD SET
GENERAL				
G-000	COVER SHEET	1	X	X
G-001	SYMBOLS AND ABBREVIATIONS		X	X
G-002	GENERAL NOTES		X	X
G-003	ACCESSIBILITY LEGEND - GENERAL		X	X
DEMOLITION				
D-111	DEMOLITION PLANS - FIRST FLOOR		X	X
ARCHITECTURAL				
A-001	PARTITION TYPES & LIFE SAFETY PLAN		X	X
A-111	FLOOR AND CEILING PLAN - FIRST FLOOR		X	X
A-131	FINISH & FURNITURE PLAN - FIRST FLOOR		X	X
A-600	DOOR SCHEDULE / DOOR & FRAME TYPES		X	X
A-801	ELEVATIONS AND DETAILS	1	X	X
A-901	3D RENDERING			X
A-902	PHOTOS			X
MECHANICAL				
M000	MECHANICAL COVERSHEET		X	X
M201	LEVEL 01 PLANS - MECHANICAL		X	X
M400	MECHANICAL DETAILS		X	X
M401	MECHANICAL DETAILS			X
ELECTRICAL				
E000	ELECTRICAL COVERSHEET		X	X
E101	LEVEL 01 DEMOLITION PLAN - LIGHTING		X	X
E201	LEVEL 01 PLANS - ELECTRICAL		X	X
E400	ELECTRICAL DETAILS		X	X
E600	ELECTRICAL SCHEDULES		X	X
TECHNOLOGY				
T000	TECHNOLOGY COVERSHEET		X	X
T201	LEVEL 01 PLANS - TECHNOLOGY		X	X
T400	TECHNOLOGY DETAILS		X	X
T600	TECHNOLOGY SCHEDULES		X	X
PLUMBING				
P000	PLUMBING + MEDICAL GAS COVERSHEET		X	X
P201	LEVEL 01 PLANS - PLUMBING		X	X
P400	PLUMBING DETAILS		X	X
P600	PLUMBING SCHEDULES		X	X

NOTES TO BIDDERS

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR DISTRIBUTING ALL CONTRACT DOCUMENTS TO BIDDERS. SUBMISSION OF BID INDICATES RECEIPT OF ALL BID DOCUMENTS. CHANGE ORDERS WILL NOT BE ACCEPTED FOR ITEMS OMITTED FROM BID FORM THAT WERE INCLUDED IN BID DOCUMENTS.
2. BIDS TO INCLUDE GROUND PENETRATING RADAR OF EXISTING FLOOR SLAB FOR ALL PROPOSED PENETRATIONS.
3. ALLOWANCES: REFERENCE DIVISION 00 OF SPECIFICATIONS.
4. SUBSTITUTIONS: BIDS SUBMITTED WITH DEVIATIONS FROM SPECIFIED PRODUCTS WILL NOT BE ACCEPTED UNLESS PROPOSED SUBSTITUTIONS ARE APPROVED IN WRITING BY ARCHITECT. ALL SUBSTITUTIONS MUST BE SUBMITTED IN WRITING AT LEAST ONE WEEK PRIOR TO SUBMISSION OF BIDS.

UNIT PRICES

1. UNIT PRICES INCLUDE ALL NECESSARY MATERIAL, PLUS COST FOR DELIVERY, INSTALLATION, INSURANCE, APPLICABLE TAXERS, OVERHEAD AND PROFIT.
2. PROVIDE UNIT PRICES FOR THE FOLLOWING:
   - A. PAINTING (HOURLY RATE)
   - B. MOISTURE MITIGATION (FLOOR SLAB) PER SF
   - C. DATA/PHONE ROUGH-IN
   - D. RECEPTACLE
   - E. ADDITIONAL EXIT SIGNAGE
   - F. LIGHTING
   - G. AFTERHOURS CLEANING

CODE INFORMATION

AUTHORITIES HAVING JURISDICTION:	**CITY OF COLUMBIA** **CITY OF COLUMBIA FIRE DEPARTMENT**
BUILDING CODE:	**2018 INTERNATIONAL BUILDING CODE**
ACCESSIBILITY:	AMERICANS WITH DISABILITIES ACT ICC/ANSI A117.1, REFERENCED BY BUILDING CODE
EXISTING BUILDING CODE:	**2018 INTERNATIONAL EXISTING BUILDING CODE**
FIRE PREVENTION:	**2018 INTERNATIONAL FIRE CODE**
MECHANICAL:	**2018 INTERNATIONAL MECHANICAL CODE**
ELECTRICAL:	**2017 NATIONAL ELECTRIC CODE**
PLUMBING:	**2018 INTERNATIONAL PLUMBING CODE**
PROPERTY MAINTENANCE:	**2018 INTERNATIONAL PROPERTY MAINTENANCE CODE**
ENERGY:	**2018 INTERNATIONAL ENERGY CONSERVATION CODE**
GAS:	**2018 INTERNATIONAL FUEL GAS CODE**

2018 INTERNATIONAL EXISTING BUILDING CODE WORK AREA COMPLIANCE METHOD ALTERNATIONS - LEVEL 2

BUILDING INFORMATION

USE GROUPS:
NON-SEPARATED, MIXED USE
B BUSINESS
S-2 LOW HAZARD STORAGE

CONSTRUCTION TYPE:
1 STORY, TYPE IIB, NONSPRINKLERED

SEISMIC CATEGORY:
D REFER TO CISCA GUIDELINES FOR REQUIREMENTS

OCCUPANT LOAD:

FLOOR	ACTUAL GSF	OCCUPANTS
FIRST	3,556 SF	
AREA OF RENOVATION	952 SF	7

RATINGS

ELEMENT:	RATING:
PRIMARY STRUCTURAL FRAME	0 HOUR
BEARING WALLS	
-EXTERIOR	0 HOUR
-INTERIOR	0 HOUR
NON-BEARING WALLS	
-EXTERIOR	0 HOUR
-INTERIOR	0 HOUR
-AREA SEPARATION	2 HOUR
FLOOR CONSTRUCTION	0 HOUR
ROOF CONSTRUCTION	0 HOUR
CORRIDOR	1 HOUR
DOORS	
-CORRIDOR WALLS	20 MINUTE
-AREA SEPARATION WALLS	90 MINUTE

BUILDING OWNER
LINDNER PROPERTIES
1400 FORUM BLVD
COLUMBIA, MO 65203
E Ashley@lindnerproperties.com

BUILDING TENANT
EAST CENTRAL COLLEGE
1964 PRAIRIE DELL ROAD
UNION, MO 63804
T (636) 584-6500

TENANT'S REPRESENTATIVE
NAVIGATE BUILDING SOLUTIONS
8419 MANCHESTER ROAD
BRENTWOOD, MO 63144
T (618) 960-4116
E ryan@navigatebuildingsolutions.com
CONTACT: RYAN WILSON

ARCHITECT OF RECORD
ARCTURIS
701 MARKET STREET
SUITE 1300
ST LOUIS, MO 63101
T (314) 206-7132
E dwolff@arcturis.com
CONTACT: DAVID WOLFF

MECHANICAL ENGINEER
IMEG
15 SUNNEN DRIVE
SUITE 104
ST LOUIS, MO 63143
T (314) 951-2550
E sophia.e.stone@imegcorp.com
CONTACT: SOPHIA STONE

ELECTRICAL ENGINEER
IMEG
15 SUNNEN DRIVE
SUITE 104
ST LOUIS, MO 63143
T (314) 257-0632
E mason.j.ryan@imegcorp.com
CONTACT: MASON RYAN

PLUMBING ENGINEER
IMEG
15 SUNNEN DRIVE
SUITE 104
ST LOUIS, MO 63143
T (314) 951-2550
E sophia.e.stone@imegcorp.com
CONTACT: SOPHIA STONE

TECHNOLOGY ENGINEER
IMEG
15 SUNNEN DRIVE
SUITE 104
ST LOUIS, MO 63143
T (314) 257-0632
E jason.w.heisler@imegcorp.com
CONTACT: JASON HEISLER

EAST CENTRAL COLLEGE

ECC Health Science
CMU Health Services
1400 Forum Blvd
Suite 16
Columbia, MO 65203

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

IMEG
16 SUNNEN DRIVE, SUITE 104
SAINT LOUIS, MO 63143
314.257.0632

NAVIGATE BUILDING SOLUTIONS
8419 MANCHESTER ROAD
SAINT LOUIS, MO 63144
618.960.4116

OWNER'S REPRESENTATIVE
NAVIGATE - (618) 960-4116

MECHANICAL ENGINEER
IMEG - (314) 257-0632

ELECTRICAL ENGINEER
IMEG - (314) 257-0632

PLUMBING ENGINEER
IMEG - (314) 257-0632

FIRE PROTECTION ENGINEER
IMEG - (314) 257-0632

TECHNOLOGY ENGINEER
IMEG - (314) 257-0632

ARCHITECT OF RECORD:
MISSOURI STATE CERTIFICATE OF AUTHORITY #00246198

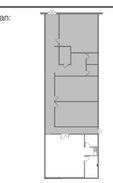
MICHAEL J. RATLIFF
MO #6855

ISSUE DATE	DESCRIPTION
01/21/2025	90% CD SET
01/30/2025	100% CD SET

Revision Schedule

No.	Date	Description
1	02/24/25	BID ADDENDUM #3

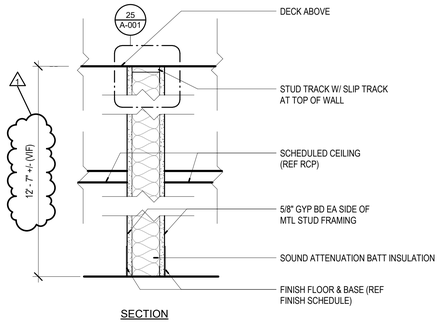
Key Plan:



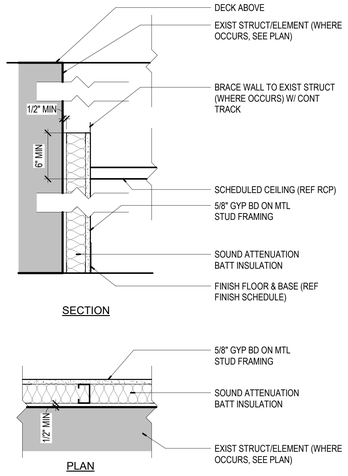
Project Number: **24-3465.01**

Sheet
COVER SHEET

G-000

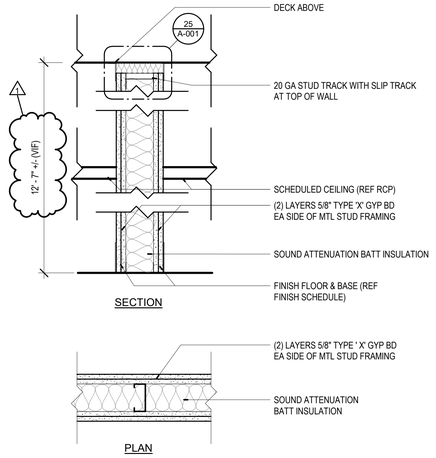


S3AA, 1, 4 3-5/8" MTL STUD PARTITION TO DECK (4-7/8")



S3A, 1, 3 3-5/8" FURRED PARTITION TO 6" ABOVE CLG (4-1/4")

S6A, 3 6" FURRED PARTITION TO 6" ABOVE CLG (6-5/8")



S3BB, 1,4,5 3-5/8" MTL STUD PARTITION TO DECK (6-1/8") **2 HR (U-419)**

6 A-001 PARTITION TYPES
1 1/2" = 1'-0"

GENERAL NOTES: PARTITIONS

1. STUD GAUGE MINIMUMS ARE TO BE AS OUTLINED IN THE INTERIOR FRAMING AND INTERIOR SHAFTWALL LIMITING HEIGHT TABLES.
2. ALL NEW, EXISTING, AND MODIFIED PARTITIONS TO RECEIVE A LEVEL FOUR (4) DRYWALL FINISH PRIOR TO APPLICATION OF PAINT TO SURFACE TO AVOID PAINT FLASHING. WALL FINISH LEVEL BASED ON GA-214-17 "RECOMMENDED LEVELS OF GYPSUM BOARD FINISH." REFER TO PARTITION TYPES FOR ADDITIONAL INFORMATION.
3. CONTROL JOINTS: PROVIDE CONTROL JOINTS ACCORDING TO ASTM C 840 AND IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT. WHEN POSSIBLE ALIGN WITH DOOR FRAME.
4. PARTITIONS ARE DIMENSIONED TO FACE OF PARTITION UNLESS NOTED OTHERWISE.
5. PROVIDE 6" METAL STUDS AT ALL PARTITIONS WHERE NEW PLUMBING WASTE OR VENT LINES ARE LOCATED.
6. INSTALL MOISTURE RESISTANT GYP BOARD AT ALL WET WALLS, INCLUDING BUT NOT LIMITED TO RESTROOM AND SINK LOCATIONS.
7. CONTRACTOR TO KEEP ON SITE A COPY OF ALL APPLICABLE FIRE RATED ASSEMBLY SYSTEMS TO PROVIDE AT TIME OF INSPECTION IF REQUIRED.
8. ALL MATERIALS USED IN FIRE-RATED ASSEMBLIES SHALL BE APPROVED NON COMBUSTIBLE MATERIALS PER IBC 706.3 AND AS APPROVED BY UL OTHER RECOGNIZED STANDARD FOR USE IN SUCH ASSEMBLIES.
9. ALL FIRESTOP SYSTEMS TO MEET UL TESTED SYSTEMS. SYSTEMS MUST BE SUBMITTED TO AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION. GC IS TO KEEP A COPY OF ALL APPROVED SYSTEMS ON SITE FOR DURATION OF PROJECT. ALL INSTALLED SYSTEMS MUST BE LABELED AND DOCUMENTED. DOCUMENTATION IS TO BE SUBMITTED TO OWNER AND ARCHITECT UPON COMPLETION OF THE PROJECT.
10. PROVIDE THROUGH PENETRATION FIRESTOP SYSTEMS FOR ALL ITEMS PENETRATING FIRE-RATED ASSEMBLIES. PENETRATIONS TO BE DESIGNED, TESTED, AND FIRE-RESISTANCE RATED TO RESIST FOR A PRESCRIBED PERIOD OF TIME THE SPREAD OF FIRE THROUGH PENETRATIONS. PROVIDE UL-LISTED ASSEMBLIES AS REQUIRED.

INTERIOR FRAMING LIMITING HEIGHTS

STUD DEPTH	STUD DESIGN	STUD SPACING	DESIGN LIMIT	ALLOWABLE DEFLECTION	HEIGHT
20 GA					
1-5/8"	162S125-18/33	24" OC	5 PSF	L/240	8' - 9"
1-5/8"	162S125-18/33	16" OC	5 PSF	L/240	9' - 8"
2-1/2"	250S125-18/33	24" OC	5 PSF	L/240	11' - 7"
2-1/2"	250S125-18/33	16" OC	5 PSF	L/240	12' - 10"
3-5/8"	362S125-18/33	24" OC	5 PSF	L/240	14' - 9"
3-5/8"	362S125-18/33	16" OC	5 PSF	L/240	16' - 5"
4"	400S125-18/33	24" OC	5 PSF	L/240	16' - 5"
4"	400S125-18/33	16" OC	5 PSF	L/240	18' - 4"
6"	600S125-18/33	24" OC	5 PSF	L/240	21' - 7"
6"	600S125-18/33	16" OC	5 PSF	L/240	24' - 6"
25 GA					
1-5/8"	162S125-18/33	24" OC	5 PSF	L/240	7' - 11"
1-5/8"	162S125-18/33	16" OC	5 PSF	L/240	8' - 4"
2-1/2"	250S125-18/33	24" OC	5 PSF	L/240	10' - 7"
2-1/2"	250S125-18/33	16" OC	5 PSF	L/240	11' - 3"
3-5/8"	362S125-18/33	24" OC	5 PSF	L/240	13' - 5"
3-5/8"	362S125-18/33	16" OC	5 PSF	L/240	14' - 4"
4"	400S125-18/33	24" OC	5 PSF	L/240	14' - 2"
4"	400S125-18/33	16" OC	5 PSF	L/240	15' - 4"
6"	600S125-18/33	24" OC	5 PSF	L/240	16' - 9"
6"	600S125-18/33	16" OC	5 PSF	L/240	19' - 9"

PARTITION TYPE LEGEND

BASIC MATERIAL :

S - (METAL) STUD

BASIC SIZE:

1: 1 1/2" METAL HAT CHANNEL @ 16" OC
2 : 2 1/2" METAL STUD @ 16" OC
3: 3 5/8" METAL STUD FRAMING @ 16" OC
4 : 4" CONCRETE, MASONRY, OR STUD @ 16" OC
6 : 6" CONCRETE, MASONRY, OR STUD @ 16" OC

APPLIED LAYERS

A : 1 LAYER 5/8" GYPSUM BOARD
B : 2 LAYERS 5/8" GYPSUM BOARD
C: 1 LAYER 5/8" MOISTURE RESISTANT GYPSUM BOARD
D: 1 HOUR SHAFTWALL CONSTRUCTION; 1 LAYER 5/8" TYPE 'X' GYPSUM BOARD ON ONE SIDE, 1 LAYER 1" FIRE-SHIELD SHAFT LINER FACE PANEL ON OTHER SIDE
G: ACOUSTIC PARTITION; 1 LAYER OF 5/8" GYPSUM BOARD ON ONE SIDE, 1 LAYER OF 5/8" GYPSUM BOARD ON 1/2" RESILIENT CHANNELS @ 16" OC ON OTHER SIDE
J: ACOUSTIC PARTITION; 1 LAYER OF 5/8" GYPSUM BOARD ON 1/2" RESILIENT CHANNELS @ 16" OC ON 1 LAYER 1/2" GYPSUM BOARD

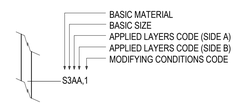
MODIFYING CONDITIONS:

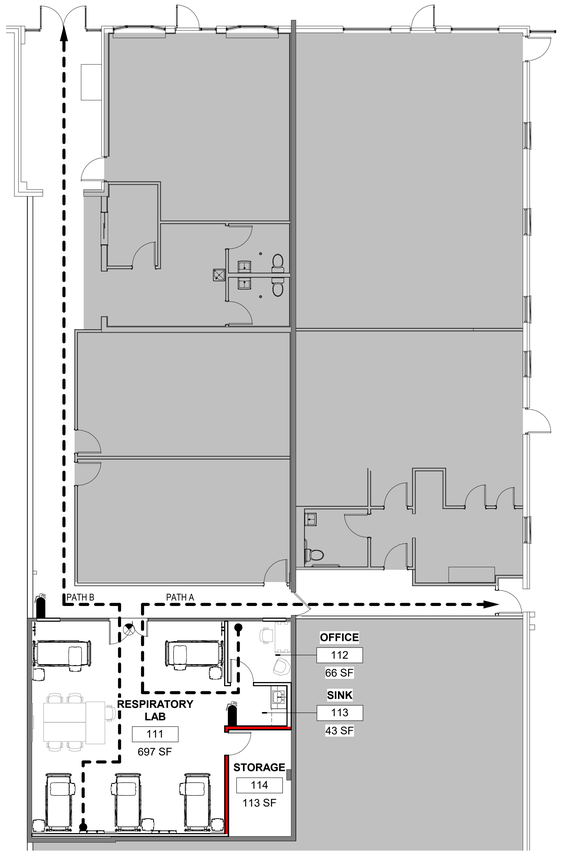
1. PROVIDE ACOUSTIC BATT INSULATION. FULL CAVITY WIDTH. FULL WALL HEIGHT. WHERE DOUBLE STUD WALL IS NOTED, PROVIDE SOUND ATTENUATION BLANKETS IN BOTH WALLS. ACOUSTICAL SEALANT AROUND PERIMETER & ALL PENETRATIONS
2. COMPLETE WALL ASSEMBLY EXTENDS TO CEILING. BRACE WALL TO STRUCTURE ABOVE WITH KICKERS OF SAME SIZE AND GAGE AT 48" OC MAX ON ALTERNATING SIDES OF WALL. SPLIT EXISTING CEILING TILES AS REQUIRED TO ACCOMODATE BRACING
3. COMPLETE WALL ASSEMBLY EXTENDS TO 6" ABOVE HIGHEST ADJOINING CEILING. BRACE WALL TO STRUCTURE ABOVE WITH KICKERS OF SAME SIZE AND GAGE AT 48" OC MAX ON ALTERNATING SIDES OF WALL
4. COMPLETE WALL ASSEMBLY IS CONTINUOUS TO UNDERSIDE OF STRUCTURE ABOVE
5. RATED ASSEMBLY CONTINUOUS TO UNDERSIDE OF STRUCTURE ABOVE; PROVIDE FIRESTOPPING / FIRECAULKING IN LIEU OF ACOUSTICAL SEALANT AROUND PERIMETER & ALL PENETRATIONS
6. 1 LAYER OF GYPSUM BOARD / CEMENTITIOUS BOARD ON ONE SIDE AND STUD WALL ASSEMBLY EXTENDS TO UNDERSIDE OF STRUCTURE ABOVE. GYPSUM BOARD / CEMENTITIOUS BOARD EXTENDS TO 6" ABOVE ADJOINING CEILING ON OTHER SIDE
7. 2" AUTOCLAVE PANEL WITH 1" AIR GAPS ON EITHER SIDE BETWEEN WD STUD FRAMING. ENTIRE ASSEMBLY IS RATED AND IS CONTINUOUS TO UNDERSIDE OF STRUCTURE ABOVE WITH THE AUTOCLAVE PANEL CONTINUOUS FROM SLAB TO RATED ROOF DECKING; PROVIDE FIRESTOPPING / FIRECAULKING IN LIEU OF ACOUSTICAL SEALANT AROUND PERIMETER & ALL PENETRATIONS

PARTITION TYPE

TAG PARTITION DESCRIPTION (PARTITION THICKNESS) PARTITION FIRE RATING
PARTITION STC RATING

PARTITION TAG SYMBOL





21 A-001 LIFE SAFETY PLAN - FIRST FLOOR
1/8" = 1'-0"

LIFE SAFETY LEGEND:

- EGRESS PATH
- EXIT SIGN
- AED — DEFRIBULATOR
- SALVAGED FIRE EXTINGUISHER & CABINET. SEMI-RECESSED TYPE W/ BAKED ENAMEL FINISH; REINSTALL SO AS NOT TO PROJECT MORE THAN 4" INTO PATH OF TRAVEL.
- 2-HOUR RATED PARTITION

NOTE: PROVIDE EXIT SIGNS AND FIRE EXTINGUISHERS AS REQUIRED BY INTERNATIONAL BUILDING CODE (IBC).

EGRESS PATH	
EXIT ROUTE	DISTANCE
PATH A	79' - 0"
PATH B	116' - 6"

ROOM SCHEDULE - 1ST FLOOR	
Number	Name
111	RESPIRATORY LAB
112	OFFICE
113	SINK
114	STORAGE

CODE INFORMATION

AUTHORITIES HAVING JURISDICTION: **CITY OF COLUMBIA**
CITY OF COLUMBIA FIRE DEPARTMENT

BUILDING CODE: **2018 INTERNATIONAL BUILDING CODE**

ACCESSIBILITY: AMERICANS WITH DISABILITIES ACT
ICC/ANSI A117.1, REFERENCED BY BUILDING CODE

EXISTING BUILDING CODE: **2018 INTERNATIONAL EXISTING BUILDING CODE**

FIRE PREVENTION: **2018 INTERNATIONAL FIRE CODE**

MECHANICAL: **2018 INTERNATIONAL MECHANICAL CODE**

ELECTRICAL: **2017 NATIONAL ELECTRIC CODE**

PLUMBING: **2018 INTERNATIONAL PLUMBING CODE**

PROPERTY MAINTENANCE: **2018 INTERNATIONAL PROPERTY MAINTENANCE CODE**

ENERGY: **2018 INTERNATIONAL ENERGY CONSERVATION CODE**

GAS: **2018 INTERNATIONAL FUEL GAS CODE**

2018 INTERNATIONAL EXISTING BUILDING CODE WORK AREA COMPLIANCE METHOD ALTERNATIONS - LEVEL 2

BUILDING INFORMATION

USE GROUPS:
NON-SEPARATED, MIXED USE
B BUSINESS
S-2 LOW HAZARD STORAGE

CONSTRUCTION TYPE:
1 STORY, TYPE IIB, NONSPRINKLERED

SEISMIC CATEGORY:
D REFER TO CISCA GUIDELINES FOR REQUIREMENTS

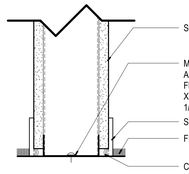
OCCUPANT LOAD:

FLOOR	ACTUAL GSF	OCCUPANTS
FIRST	3,556 SF	
AREA OF RENOVATION	952 SF	7

RATINGS

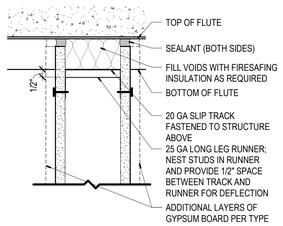
ELEMENT:	RATING:
PRIMARY STRUCTURAL FRAME	0 HOUR
BEARING WALLS	
-EXTERIOR	0 HOUR
-INTERIOR	0 HOUR
NON-BEARING WALLS	
-EXTERIOR	0 HOUR
-INTERIOR	0 HOUR
-AREA SEPARATION	2 HOUR
FLOOR CONSTRUCTION	0 HOUR
ROOF CONSTRUCTION	0 HOUR
CORRIDOR	1 HOUR
DOORS	
-CORRIDOR WALLS	20 MINUTE
-AREA SEPARATION WALLS	90 MINUTE

NOTE:
1. MTL FRAMING PER ICCES LEGACY REPORT ER-4943P AND ICBO REPORT #4782.
2. SEE ICBO ES REPORT #1632 FOR USE IN FIRE-RESISTIVE ASSEMBLIES.

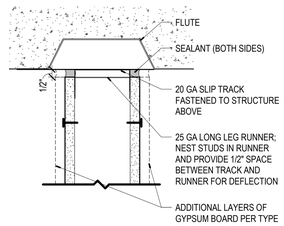


19 A-001 DETAIL - BASE OF TRACK
3" = 1'-0"

PERPENDICULAR TO FLUTES



PARALLEL TO FLUTES



25 A-001 DETAIL - SLIP TRACK
3" = 1'-0"

EAST CENTRAL COLLEGE

ECC Health Science
CMU Health Services
1400 Forum Blvd
Suite 16
Columbia, MO 65203

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

IMEG
16 SUNNEN DRIVE, SUITE 104
SAINT LOUIS, MO 63143
314.257.0632

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8419 MANCHESTER ROAD
SAINT LOUIS, MO 63144
618.960.4116

OWNER'S REPRESENTATIVE
NAVIGATE - (618) 960-4116

MECHANICAL ENGINEER
IMEG - (314) 257-0632

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IMEG - (314) 257-0632

ARCHITECT OF RECORD:
MISSOURI STATE CERTIFICATE OF AUTHORITY #00246198

STATE OF MISSOURI
MICHAEL JOHN RATLIFF
NUMBER A-6855
REGISTERED ARCHITECT
01/30/25

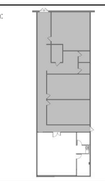
MICHAEL J. RATLIFF
MO #6855

ISSUE DATE	DESCRIPTION
01/21/2025	90% CD SET
01/30/2025	100% CD SET

Revision Schedule

No.	Date	Description
1	02/24/25	BID ADDENDUM #3

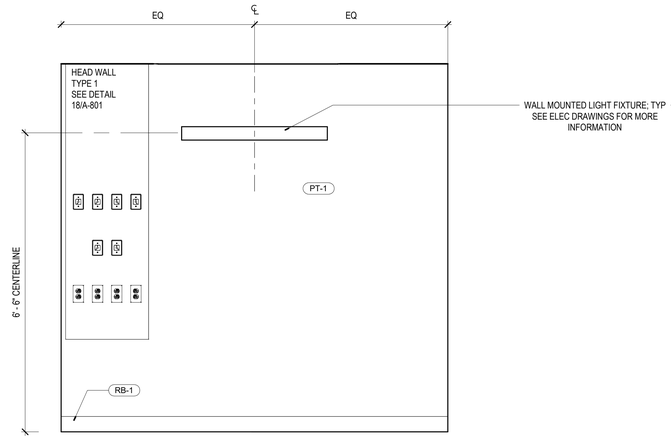
Key Plan:



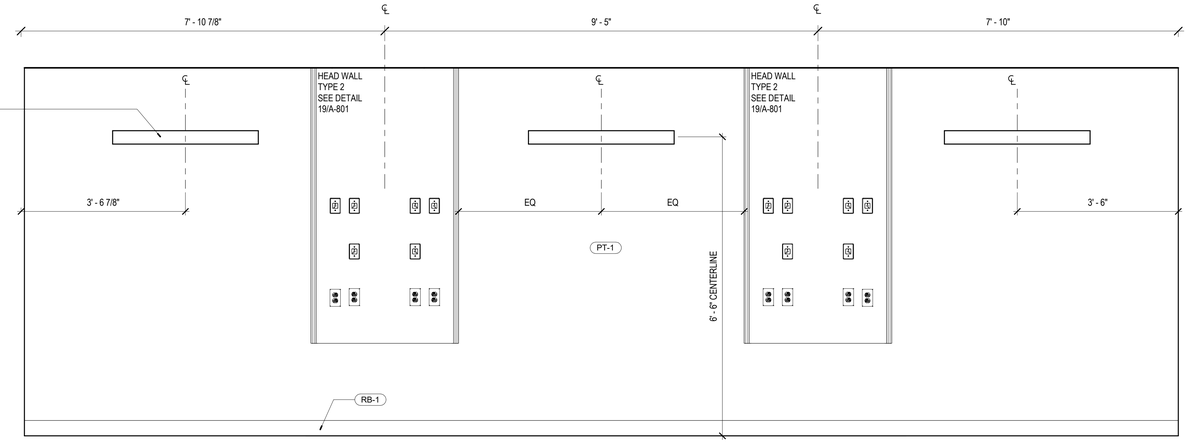
Project Number: **24-3465.01**

Sheet
PARTITION TYPES & LIFE SAFETY PLAN

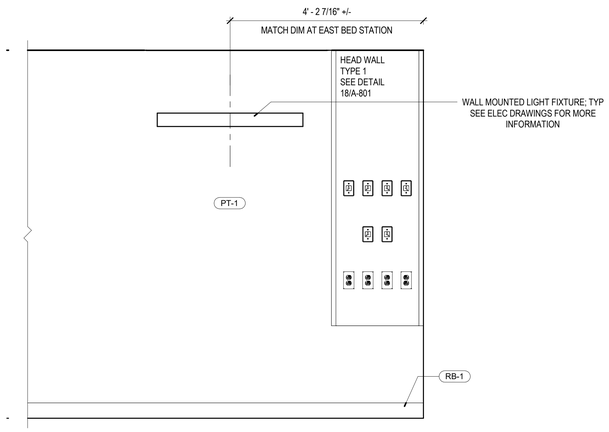
A-001



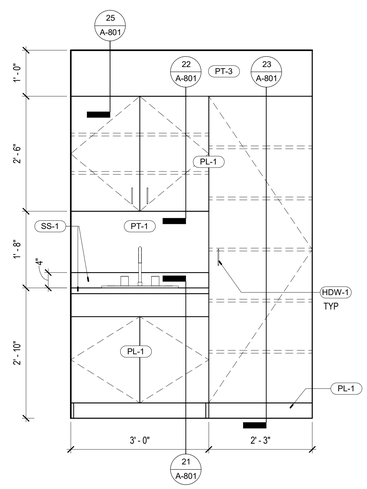
6 A-801 ELEVATION - RESPIRATORY LAB - EAST
3/4" = 1'-0"



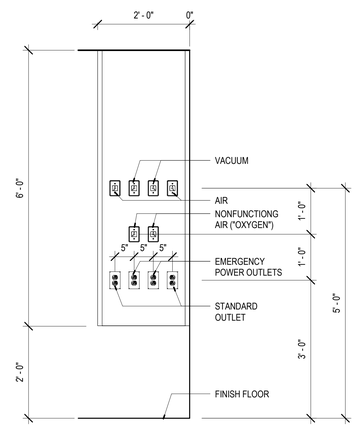
7 A-801 ELEVATION - RESPIRATORY LAB - SOUTH
3/4" = 1'-0"



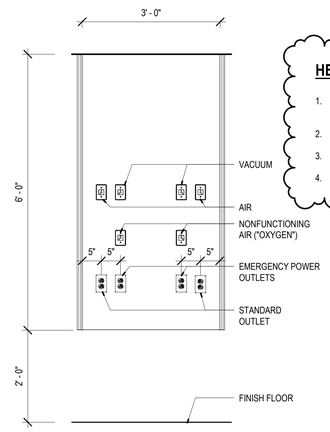
16 A-801 ELEVATION - RESPIRATORY LAB - WEST
3/4" = 1'-0"



17 A-801 ELEVATION - SINK STATION
3/4" = 1'-0"



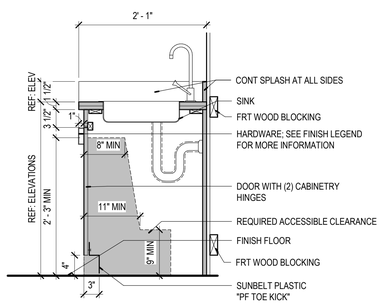
18 A-801 DETAIL - TYPE 1 HEADWALL
3/4" = 1'-0"



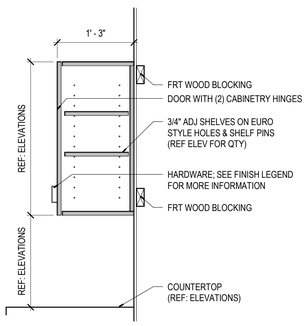
HEADWALL NOTES:

1. PRE FABRICATED WALL-MOUNTED HEADWALL FOR CENTRALIZED COMPRESSOR; FINISH: MATCH PL-1 LAMINATE; AMICO NULOOK MANIFOLD OR EQUAL. PROVIDE BLOCKING AND COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. REFERENCE ELECTRICAL & PLUMBING DRAWINGS FOR MORE INFORMATION.
3. **CONTRACTOR PROVIDED**; CONTRACTOR INSTALLED

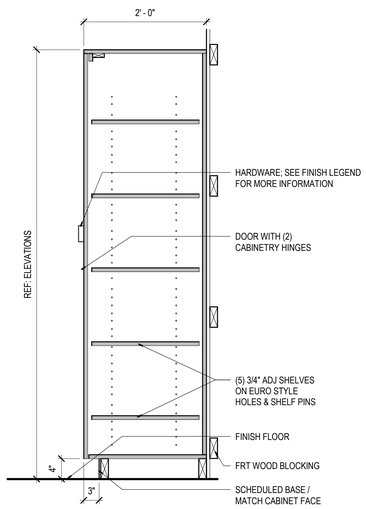
19 A-801 DETAIL - TYPE 2 HEADWALL
3/4" = 1'-0"



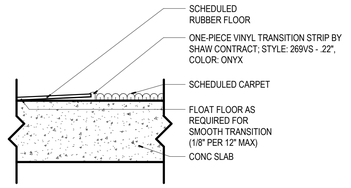
21 A-801 DETAIL - BASE CABINET WITH SINK (ADA)
1" = 1'-0"



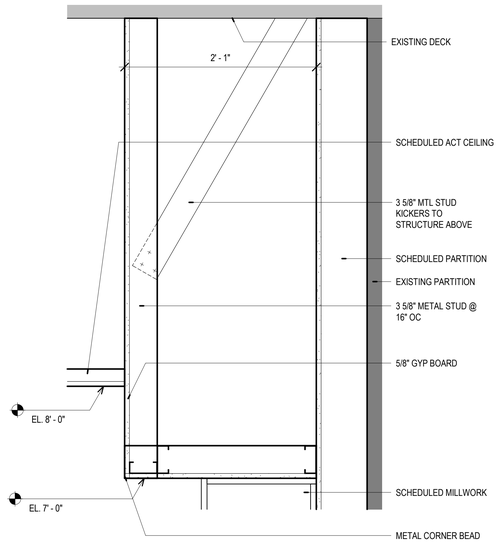
22 A-801 DETAIL - UPPER CABINET
1" = 1'-0"



23 A-801 DETAIL - BASE CABINET - TALL
1" = 1'-0"



24 A-801 TRANSITION - RUBBER FLOOR TO CARPET
3" = 1'-0"



25 A-801 DETAIL - SOFFIT AT WASHING STATION
1 1/2" = 1'-0"

EAST CENTRAL COLLEGE

ECC Health Science
CMU Health Services
1400 Forum Blvd
Suite 16
Columbia, MO 65203

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

IMEG
16 SUNNEN DRIVE, SUITE 104
SAINT LOUIS, MO 63143
314.257.0632

NAVIGATE BUILDING SOLUTIONS
8419 MANCHESTER ROAD
SAINT LOUIS, MO 63144
618.960.4116

OWNER'S REPRESENTATIVE
NAVIGATE - (618) 960-4116

MECHANICAL ENGINEER
IMEG - (314) 257-0632

ELECTRICAL ENGINEER
IMEG - (314) 257-0632

PLUMBING ENGINEER
IMEG - (314) 257-0632

FIRE PROTECTION ENGINEER
IMEG - (314) 257-0632

TECHNOLOGY ENGINEER
IMEG - (314) 257-0632

ARCHITECT OF RECORD:
MISSOURI STATE CERTIFICATE OF AUTHORITY #00246198

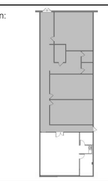
MICHAEL J. RATLIFF
MO #6855

ISSUE DATE	DESCRIPTION
01/21/2025	90% CD SET
01/30/2025	100% CD SET

Revision Schedule

No.	Date	Description
1	02/24/25	BID ADDENDUM #3

Key Plan:



Project Number: **24-3465.01**

Sheet
ELEVATIONS AND DETAILS

A-801

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. ALL CONDUITS AND BOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE E.C.'S BID. THIS INCLUDES INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.

LED LUMINAIRE SCHEDULE

(DESC) DOOR:	DISTRIBUTION:	BEAMWIDTH:	(L/L) LENS/LOUVER:	K19 - KSH19 .156" ACRYLIC
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	A - .125" ACRYLIC	M - MATTE DIFFUSE CLEAR
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	B - BAFFLE/LOUVER	N - NONE
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	C - CLEAR ALZAK	P - POLYCARBONATE
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	F - FROSTED ACRYLIC	R - HIGH IMPACT DR ACRYLIC
FINISH:		VWD - VERY WIDE	G - TEMPERED GLASS	SS - SEMI-SPECULAR CLEAR
PAF - PAINT AFTER FABRICATION		WW - WALL WASH	K - KSH12 .125" ACRYLIC	O - OTHER (SEE DESCRIPTION)
CFSA - COLOR-FINISH SELECTION BY ARCHITECT				[DESIGN SPECIFIC BLANKS]

(MTG) MOUNTING:	RE - RECESSED	(WATT) PER:	FIX - FIXTURE, FT - FOOT, LAMP	
CL - CEILING SURFACE	SP - SUSPENDED	(TYPE) LED		RGB - COLOR CHANGING LED
CV - COVE	SU - SURFACE	LED - LIGHT EMITTING DIODE		RGBW - COLOR CHANGING + WHITE
FR - FLANGED RECESSED	UC - UNDER CABINET	TLED - TUBULAR LED LAMP		RGBA - COLOR CHANGING + AMBER
P - PERIMETER	WL - WALL	OLED - ORGANIC LED		RLED - RETROFIT LED
PL - POLE	O - OTHER (SEE DESCRIPTION)	DLED - DYNAMIC TUNABLE LED		WLED - WARM DIM LED

(TYPE) DRIVER:			
0-10V - 0-10V DIMMING	EB - ELECTRONIC	HL - HIGH/LOW (100%/50%) STEP...	MV - MULTI-VOLTAGE ELECTRONIC
DALI - DIGITAL ADDRESSABLE	ELV - ELECTRONIC LOW VOLTAGE	LINE - LINE VOLTAGE DIMMING	REM - REMOTE
DMX - DIGITAL MULTIPLEX	EM - EMERGENCY BATTERY	ML - MULTI-LEVEL SWITCHING	O - OTHER (SEE DESCRIPTION)

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LED LIGHTING 26 51 19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
INTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 90, UNLESS NOTED OTHERWISE.

ITEM	DESCRIPTION	MTG	DIMENSIONS L	W	H	DIA.	WATT ANSI WATTS	PER	LED DELIVERED LUMENS (MIN)	DRIVER VOLTS	TYPE	MANUFACTURER AND MODEL	SCHEDULE IDENTIFIER
F1	2x4 LED SPECIFICATION GRADE TROFFER. RIBBED FROSTED ACRYLIC LENS	RE	4'-0"	2'-0"	3 1/4"	0"	47	FIX	5129	120	0-10V	METALUX CRUZE OR EQUAL	LUMINAIRE SCHEDULE
F1E	2X4 LED SPECIFICATION GRADE TROFFER. RIBBED FROSTED ACRYLIC LENS. UL924 LISTED LUMINAIRE WITH AWA EMERGENCY BATTERY PACK.	RE	4'-0"	2'-0"	3 1/4"	0"	47	FIX	5129	120	0-10V	METALUX CRUZE OR EQUAL	LUMINAIRE SCHEDULE
F2	4 FT WALL MOUNTED ARCHITECTURAL LIGHT WITH DOWN- AND UP-LIGHTING. FROSTED ACRYLIC.	WL	4'-0"	1'-0"	5 1/2"		30	FIX	3364	120	0-10V	HE WILLIAMS WMA OR EQUAL	LUMINAIRE SCHEDULE
X1	SINGLE FACE SURFACE WALL MOUNTED EXIT SIGN. RED LETTERS WHITE POLYCARBONATE HOUSING. INTERGRAL BATTERY AND SELF-DIAGNOSTICS.	UNV	1'-1"	2"	9"		5	FIX	-	120	EM	SURE-LITES LPX OR EQUAL	LUMINAIRE SCHEDULE

LIGHTING SEQUENCE OF OPERATION

NOTES:
1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. S# - SWITCH DESIGNATION FOR LIGHTING CONTROL.

PLAN ID	LIGHTING SWITCHED
{LD1}	SEQUENCE: LIGHTING CONTROL PROVIDED VACANCY CONTROL, AND MANUAL DIMMING IN THIS SPACE. ON: LIGHTS TURN ON USING WALL CONTROLLER ADJUST: LIGHTS ARE RAISED/LOWERED CONTROLLED USING A WALL CONTROLLER. 10-100% OFF: LIGHTS TURN OFF USING WALL CONTROLLER LIGHTS AUTOMATICALLY TURN OFF AFTER THE SPACE HAS BEEN VACANT FOR 15 MINUTES
{LS1}	SEQUENCE: LIGHTING CONTROL PROVIDED OCCUPANCY CONTROL, AND MANUAL SWITCHING IN THIS SPACE. ON: LIGHTS TURN ON USING WALL CONTROLLER OFF: LIGHTS TURN OFF USING WALL CONTROLLER LIGHTS AUTOMATICALLY TURN OFF AFTER THE SPACE HAS BEEN VACANT FOR 15MINUTES

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

NORTH — INDICATES DIRECTION OF TRUE NORTH
1 — PLAN OR DETAIL NUMBER
VIEW NAME — PLAN OR DETAIL NAME
1/8" = 1'-0" — PLAN OR DETAIL SCALE

SIM — INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
1 — DETAIL REFERRED TO BY SECTION CUT
M101 — SHEET DETAIL IS LOCATED ON
SIM — 1 2 3 — T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
ABV	ABOVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
CO	CONDUIT AND BOX ROUGH-IN ONLY (ROUGH-IN ONLY)
NEMA #	NEMA RATING
SM	SURFACE MOUNTED
TYP	TYPICAL

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

EQUIPMENT ABBREVIATION KEY

ABBR:	DESCRIPTION:
COF	COFFEE
COPY	COPIER
FFE	OWNER FURNISHED FIXTURES, FURNITURE, AND EQUIPMENT
FURN	OWNER FURNITURE
MW	MICROWAVE
REF	REFRIGERATOR

CONDUIT INSTALLATION SCHEDULE

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	EMT
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.	X
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.	X
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.	X
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)	X
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)	X
INTERIOR LOCATIONS WITH FINISHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS	X
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS	X
EXISTING INTERIOR LOCATIONS WITH FINISHED CEILINGS AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED	X

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES
			TROFFER
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
E E	ECONN	26 05 33	ELECTRICAL CONNECTION
J J	JB	26 05 33	JUNCTION BOX
	FB-# or PT-#	26 27 26	FLOOR BOX or POKE THROUGH
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT
	DS-#/FDS-#/DSS-#	26 28 16	DISCONNECT SWITCH FUSED DISCONNECT SWITCH INTERLOCKED RECEPTACLE DISCONNECT. REFER TO DISC/STA SCHEDULE
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	REC-QUAD-GFI	26 27 26	QUAD GFI RECEPTACLE, 125V
S ##	SW-1P SW-D SW-DO SW-O	26 09 33	SWITCH SUBSCRIPTS: BLANK = SINGLE POLE D = DIMMER - STAND ALONE DO=DIMMER - OCCUPANCY/VACANCY SENSORS - DUAL TECHNOLOGY ULTRASONIC/ACOUSTIC AND PIR O = DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL SWITCH
OC ##		26 09 33	OCCUPANCY SENSOR - CEILING MOUNTED SUBSCRIPTS: BLANK = DUAL TECHNOLOGY

RECEPTACLE SUBSCRIPT KEY:

DEVICE KEY:
DEVICE — # = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:
A — MOUNT AT 6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C — MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)
H — MOUNT ORIENTED HORIZONTALLY
S — SURFACE MOUNTED

LIGHTING SYSTEM DESCRIPTION KEY:

THE DESIGN DOCUMENTS DESCRIBE THE OPERATIONAL PERFORMANCE REQUIREMENTS OF THE LIGHTING CONTROL SYSTEM. THE PROJECT MAY REQUIRE ONE OR MORE LIGHTING CONTROL STRATEGIES FOR THE PROJECT. REFER TO THE ELECTRICAL SYMBOL KEY, SPECIFICATION SECTION 26 09 33 LIGHTING CONTROL SYSTEMS, AND THE DRAWINGS TO DETERMINE THE DESIGN APPLICATION FOR EACH SPACE. THE POTENTIAL STRATEGIES ARE AS FOLLOWS:

1. STANDALONE LIGHTING CONTROL DEVICES: INDEPENDENT (STANDALONE) DEVICES TRADITIONALLY OPERATING AT LINE OR LOW VOLTAGE, FIELD CONFIGURABLE WITH OTHER STANDALONE DEVICES TO PROVIDE AN OVERALL LIGHTING CONTROL SYSTEM.

LIGHTING CONTROL SYSTEM DESIGNATION: THE FOLLOWING KEY MAY BE USED AS AN EXAMPLE TO DETERMINE THE DESIGNATED LIGHTING CONTROL SYSTEM FOR EACH SPACE. REFER TO ELECTRICAL COVERSHEET FOR ELECTRICAL SYMBOLS LIST AND DEVICE SPECIFICATION TAG. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. STANDALONE LIGHTING CONTROL DEVICES: CONTROL STATION COMMONLY DEFINED BY AN ALPHA CHARACTER WITH SUBSCRIPTS.
   A. EXAMPLE SYMBOL "S", SPECIFICATION TAG "SW-1P", DESCRIPTION "SWITCH-SINGLE POLE SWITCH".
   B. EXAMPLE CONTROL DESIGNATION: a, b, c (WHEN REQUIRED TO CLARIFY DESIGN INTENT).
   C. SINGLE POLE LIGHT SWITCH "SA" CONTROLS LUMINAIRES WITH THE SUBSCRIPT "a" WITHIN THE SAME SPACE.
   D. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG {L#-##} FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL REQUIREMENTS.

F# / a — LUMINAIRE
a / S — CONTROL

LUMINAIRE SHADING KEY

NORMAL BRANCH LUMINAIRE

EMERGENCY LUMINAIRE

SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR OPERATES FROM EMERGENCY BATTERY UPON LOSS OF POWER.

LUMINAIRE CIRCUIT AND CONTROL KEY

LUMINAIRE — F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATION

*SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY (EXTEND UNSWITCHED CIRCUIT LEG TO BATTERY) UPON LOSS OF POWER.

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND OTHER LOW VOLTAGE SYSTEMS.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
3. ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR.
4. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL PHASING NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND OTHER LOW VOLTAGE SYSTEMS.

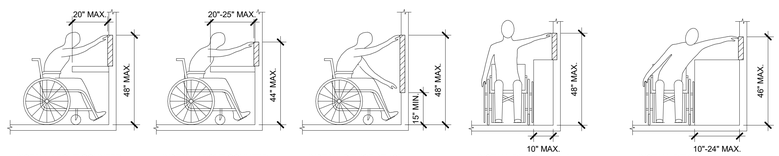
1. REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES.
2. REFER TO ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
3. REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
4. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.
5. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 26 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
6. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
7. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
8. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
9. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
11. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
12. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
13. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL SHEET INDEX

E000	ELECTRICAL COVERSHEET
E101	LEVEL 01 DEMOLITION PLAN - LIGHTING
E201	LEVEL 01 PLANS - ELECTRICAL
E400	ELECTRICAL DETAILS
E600	ELECTRICAL SCHEDULES
GRAND TOTAL: 5	



INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.
INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.
INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.
INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR.
INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS
ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

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1400 Forum Blvd
Suite 16
Columbia, MO 65203

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

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16 SUNNEN DRIVE, SUITE 104
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314.257.0632

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618.960.4116

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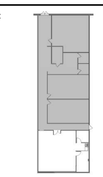
ISSUE DATE	DESCRIPTION
01/21/2025	90% CD SET
01/30/2025	100% CD SET

Revision Schedule

No.	Date	Description
1	2/24/2025	BID ADDENDUM #3

Key Plan:



Project Number: **24-3465.01**

Sheet
ELECTRICAL COVERSHEET

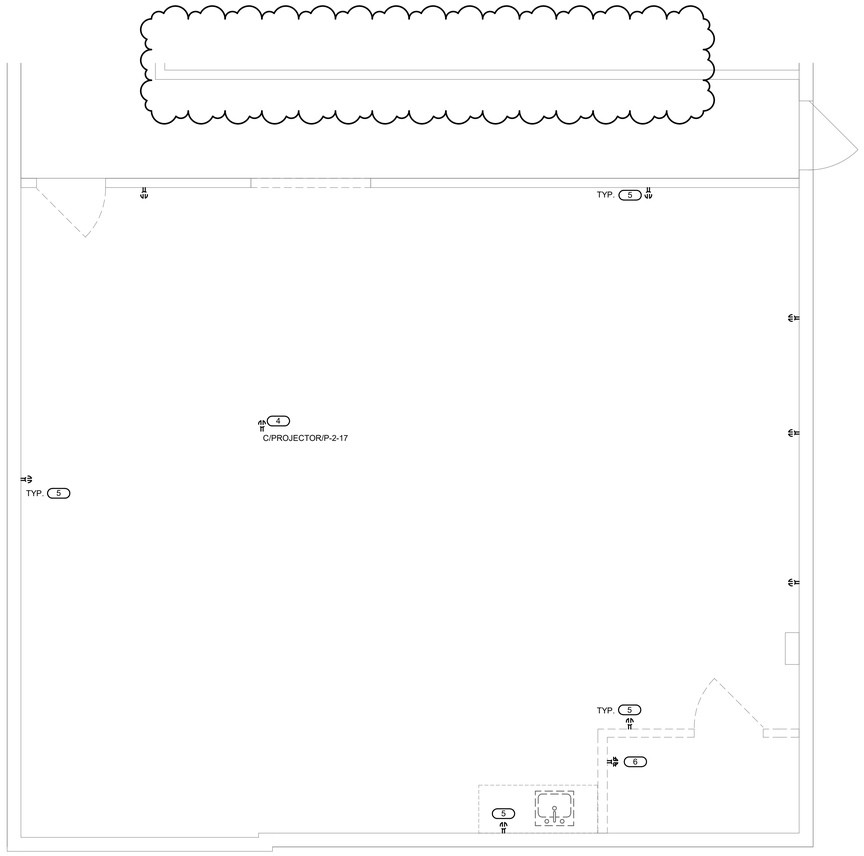
E000

SHEET NOTES:

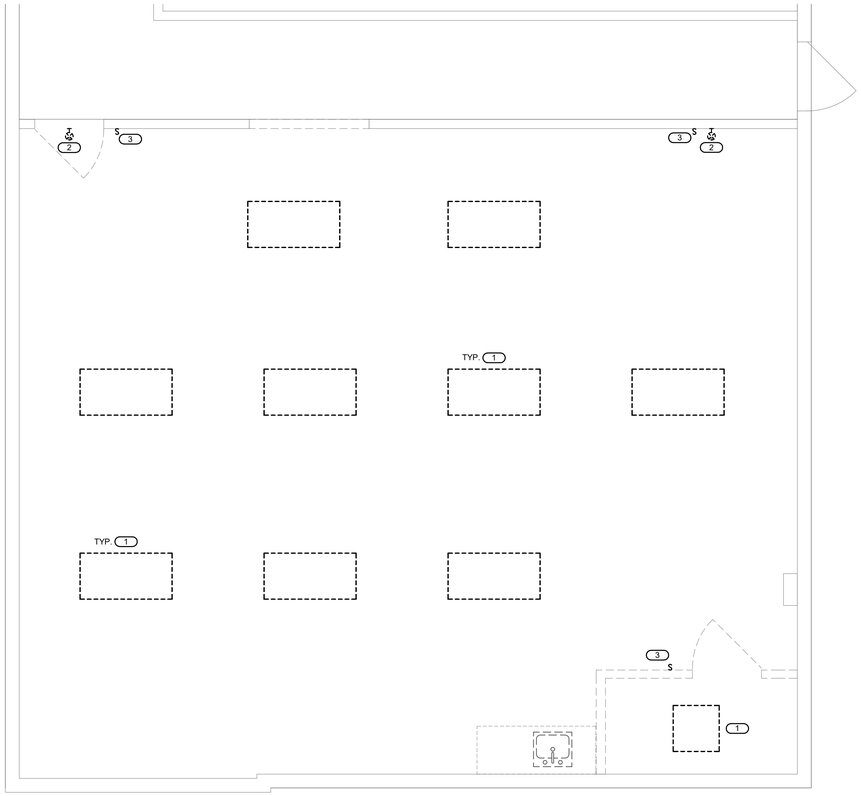
1. REFER TO E000 ELECTRICAL COVERSHEET FOR ELECTRICAL GENERAL NOTES, ELECTRICAL INSTALLATION NOTES AND SYMBOL LIST.
2. REFER TO E000 ELECTRICAL LIGHTING COVERSHEET FOR LIGHTING SCHEDULES, CONTROL NOTES AND SYMBOLS LIST.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
5. SEE 3/E201 FOR OVERALL VIEW SHOWING LOCATION OF THE PANELBOARD SERVING APPLICABLE BRANCH CIRCUITS.

KEYNOTES:

1. DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES. PROTECT EXISTING BRANCH LIGHTING CIRCUIT FOR REUSE DURING NEW WORK.
2. DISCONNECT AND REMOVE EXISTING EXIT SIGN.
3. REMOVE EXISTING LIGHTING CONTROLS.
4. REMOVE CEILING RECEPTACLE. PROTECT EXISTING CIRCUIT FOR REUSE DURING NEW WORK.
5. REMOVE EXISTING RECEPTACLE COMPLETE BACK TO NEAREST JUNCTION BOX AND PREPARE CIRCUIT FOR REUSE DURING NEW WORK.
6. DISCONNECT IT RACK CIRCUIT AND MAKE SAFE FOR DEMOLITION. REMOVE TO NEAREST JUNCTION BOX, PROTECT CIRCUIT, AND PREPARE FOR RECONNECTION DURING NEW WORK.



NORTH 2 **LEVEL 01 DEMOLITION PLAN - POWER**
3/8" = 1'-0"



NORTH 1 **LEVEL 01 DEMOLITION PLAN - LIGHTING**
3/8" = 1'-0"

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ARCTURIS
701 MARKET STREET, SUITE 1300
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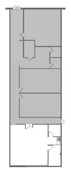

Project Number: **24-3465.01**

Sheet
LEVEL 01 DEMOLITION PLAN - LIGHTING

E101

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SUITE 104
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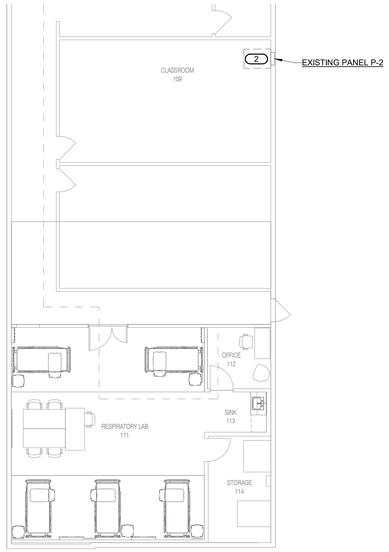
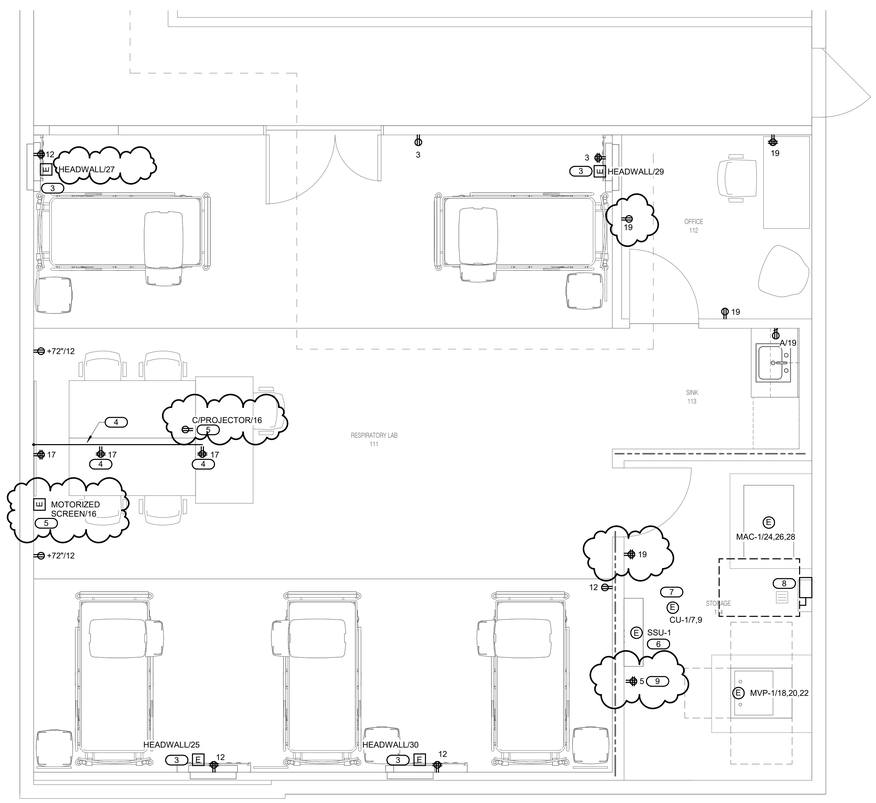
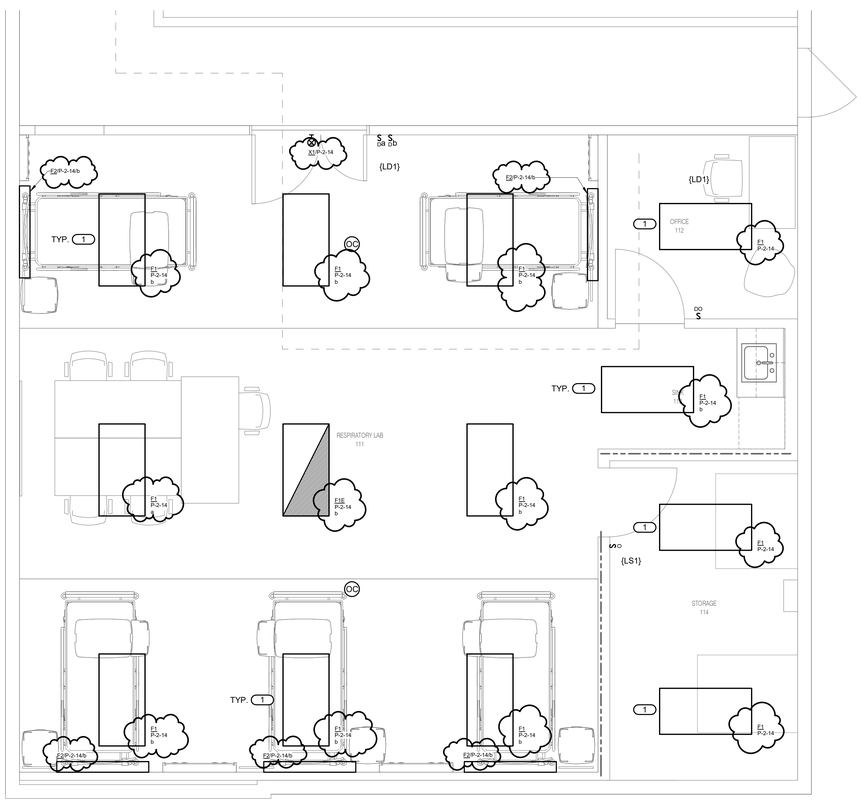


NORTH 3 **LEVEL 01 PLAN - OVERALL**
1/8" = 1'-0"



NORTH 2 **LEVEL 01 PLAN - POWER & SYSTEMS**
3/8" = 1'-0"



NORTH 1 **LEVEL 01 PLAN - LIGHTING**
3/8" = 1'-0"

SHEET NOTES:

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3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
5. SEE 3/E201 FOR OVERALL VIEW SHOWING LOCATION OF THE PANELBOARD SERVING APPLICABLE BRANCH CIRCUITS.

KEYNOTES:

1. REUSE EXISTING LIGHTING CIRCUIT PROTECTED DURING DEMOLITION.
2. EXISTING PANEL P-2 LOCATED IN ROOM E. SERVES BRANCH CIRCUITS IN AREA OF WORK.
3. PROVIDE ELECTRICAL CONNECTION FOR PREFABRICATED HEADWALL WITH DEDICATED CIRCUIT.
4. LEGRAND CONNECTRAC FLEX FX UNDERCARPET RACEWAY AND POWER DEVICES. RACEWAY TO INCLUDE (2) QUAD RECEPTACLES, SPARE COMPARTMENT FOR HDMI CABLE, AND SPARE COMPARTMENT FOR (6) PAIRS OF 14AWG SPEAKER WIRE. PROVIDE (2) 1-1/2" SPARE CONDUITS IN WALL FROM WALL TO FLOOR TRANSITION POINT STUBBED TO ABOVE CEILING.
5. COORDINATE EXACT LOCATION AND MOUNTING OF CEILING RECEPTACLE FOR PROJECTOR.
6. INDOOR SPLIT SYSTEM COMPONENT IS REM FROM THE ASSOCIATED OUTDOOR CONDESING UNIT. EC TO PROVIDE POWER AND CONTROL WIRING MATCHIN MFR REQUIREMENTS FROM OUTDOOR UNIT TO INDOOR UNIT. PROVIDE TOGGLE SWITCH DISCONNECT NEXT TO INDOOR UNIT FOR THE POWER CIRCUIT FROM THE OUTDOOR UNIT.
7. SPLIT SYSTEM CONDENSING UNIT TO BE INSTALLED ON ROOF ABOVE THIS ROOM. PROVIDE ELECTRICAL POWER CONNECTION AND 30AMP NEMA 3R DISCONNECT SWITCH ON STRUT NEXT TO CONDENSING UNIT.
8. PROVIDE 30A NEMA 1 DISCONNECT SWITCH FOR MAC-1 CIRCUIT.
9. REUSE IT CIRCUIT RETAINED DURING DEMOLITION.

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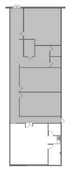
Key Plan:



Project Number: **24-3465.01**

Sheet
LEVEL 01 PLANS - ELECTRICAL

E201

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REF. SCALE IN INCHES PROJECT #24007527.00

EXISTING PANEL P-2 (DEMO)

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM:
LOCATION: ROOM E

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4

NOTES: SQUARE D QO LOAD CENTER

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	HALL LIGHTS	20	1	--	--	--		0.5	1.08									1	20	ROOM E RECEPTACLES	2	
--	3	SPARE	20	1	--	--	--				0	0.26							1	20	ROOM E LIGHTS	4	
	5	IT RACK	20	1									0.18	0.31					1	20	ROOM F LIGHTS	6	
--	7	**SPARE**	20	1	--	--	--		0	0.72									1	20	ROOM F RECEPTACLE	8	
--	9	SPARE	20	1	--	--	--				0	0.5				--	--	--	1	20	HALL LIGHTS	10	--
--	11	HEATING /AIR COND.	30	2	--	--	--						2.5	0		--	--	--	1	20	**SPARE**	12	--
	13								2.5	0.52									1	20	**ROOM G LIGHTS**	14	
--	15	SPARE	20	1	--	--	--				0	1.08							1	20	**ROOM G RECEPTACLES**	16	
	17	**ROOM G CEILING RECEPTACLE**	20	1									0.18	0		--	--	--	1	20	**SPARE**	18	--
--	19	**SPARE**	20	1	--	--	--		0	0.36									1	20	**CEILING RECEPTACLES ROOM E/F**	20	
--	21	RTU	60	2	--	--	--				6.24	0				--	--	--	1	20	**SPARE**	22	--
	23												6.24	0		--	--	--	1	20	**SPARE**	24	--
--	25	**SPARE**	20	1	--	--	--		0	0						--	--	--	1	20	**SPARE**	26	--
--	27	**SPARE**	20	1	--	--	--				0	0				--	--	--	1	20	**SPARE**	28	--
--	29	**SPACE**	--	1	--	--	--						--	0		--	--	--	1	20	**SPARE**	30	--
								Total Load:	5.68 kVA		8.08 kVA		9.41 kVA										
								Total Amps:	47.32		70.42		81.52										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	1.093 kVA	100.00%	1.093 kVA		
Receptacles	3.6 kVA	100.00%	3.6 kVA	**TOTAL CONNECTED LOAD:**	23.17 kVA
Spare	18.48 kVA	80.00%	14.784 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	19.477 kVA
				TOTAL CONNECTED AMPS:	64.32 A
				TOTAL ESTIMATED DEMAND AMPS:	54.1

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: *BOLD CIRCUITS ARE INCLUDED IN NEW WORK

EXISTING PANEL P-2 (NEW WORK)

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: --
LOCATION: ROOM E

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 MLO
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4

NOTES: ALL BREAKERS EXISTING UNLESS NOTED OTHERWISE.

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A		B		C		VD %	WIRE SIZE G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	HALL LIGHTS	20	1	--	--	--		0.5	1.08						--	--	--	1	20	ROOM E RECEPTACLES	2	--
NN	3	ROOM G RECEPTACLES	20	1	12	12	12	0.65			0.54	0.19				--	--	--	1	20	ROOM E LIGHTS	4	--
	5	IT RACK	20	1	12	12	12	0.74					0.36	0.59		--	--	--	1	20	ROOM F LIGHTS	6	--
NN	7	**ROOM G SPLIT SYSTEM**	25	2	10	10	10	1.49	2	0.36						--	--	--	1	20	ROOM F RECEPTACLE	8	--
	9										2	0.5				--	--	--	1	20	HALL LIGHTS	10	--
--	11	HEATING / AIR COND.	30	2	--	--	--						2.5	1.35	1.99	10	10	10	1	20	**ROOM G RECEPTACLES**	12	NN
	13								2.5	0.85						18	12	12	1	20	**ROOM G LIGHTS**	14	NN
--	15	SPARE	20	1	--	--	--				0	0.45				0.18	12	12	1	20	**CEILING RECEPTACLES ROOM E/F**	16	NE
NE	17	**ROOM G RECEPTACLES**	20	1	12	12	12	1.54					0.54	0.71								18	
NN	19	**ROOM G RECEPTACLES**	20	1	12	12	12	1.06	1.26	0.71						0.64	12	12	3	15	**ROOM G - MED VAC**	20	NN
--	21	RTU	60	2	--	--	--				6.24	0.71										22	
	23												6.24	1.5								24	
NN	25	**ROOM G HEAD WALL**	20	1	12	12	12	2.52	0.45	1.5						1.26	10	10	3	30	**COMPRESSOR**	26	NN
NN	27	**ROOM G HEAD WALL**	20	1	12	12	12	2.04			0.45	1.5										28	
NN	29	**ROOM G HEAD WALL**	20	1	12	12	12	1.42					0.45	0.45	2.28	12	12	12	1	20	**ROOM G HEAD WALL**	30	NN
								Total Load:	11.21 kVA		12.58 kVA		14.69 kVA										
								Total Amps:	93.45		106.62		124.18										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	0.851 kVA	100.00%	0.851 kVA		
Power	12.53 kVA	100.00%	12.53 kVA	**TOTAL CONNECTED LOAD:**	38.49 kVA
Receptacles	4.41 kVA	100.00%	4.41 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	34.35 kVA
Spare	20.698 kVA	80.00%	16.558 kVA	**TOTAL CONNECTED AMPS:**	106.84 A
				TOTAL ESTIMATED DEMAND AMPS:	95.3

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: NN: NEW LOAD NEW BREAKER, NE: NEW LOAD EXISTING BREAKER, EN, EXISTING CIRCUIT NEW BREAKER

IMEG
15 SUNNEN DRIVE
SUITE 104
ST. LOUIS, MO 63143
P: 314.645.1132 F: 314.645.1173
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PROJECT #24007527.00

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ECC Health Science
CMU Health Services
1400 Forum Blvd
Suite 16
Columbia, MO 65203

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

IMEG
16 SUNNEN DRIVE, SUITE 104
SAINT LOUIS, MO 63143
314.257.0632

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SAINT LOUIS, MO 63144
618.960.4116

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TECHNOLOGY ENGINEER
IMEG - (314) 257-0632

ARCHITECT OF RECORD:

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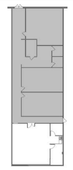
01/21/2025	90% CD SET
01/30/2025	100% CD SET

Revision Schedule

No.	Date	Description
1	2/24/2025	BID ADDENDUM #3

Key Plan:



Project Number: **24-3465.01**

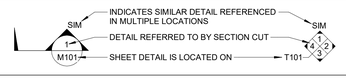
Sheet
ELECTRICAL SCHEDULES

E600

VIEW KEY

NAME — LEVEL NAME
10'-0" — HEIGHT ABOVE PROJECT 0'-0"

1 — KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL



LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFC	BELOW FINISHED CEILING
C	CONDUIT
DE	DELAYED EGRESS
DPDT	DOUBLE POLE DOUBLE THROW
FOV	FIELD OF VIEW
J-BOX	JUNCTION BOX
POE	POWER OVER ETHERNET
PTZ	PAN TILT ZOOM
SIM	SIMILAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
EF-#	ENTRANCE FACILITY
MC-#	MAIN CROSS-CONNECT
TR-#	TELECOMMUNICATIONS ROOM

TECHNOLOGY SYMBOL LIST

SYMBOL	TAG	EQUIPMENT LIST ABBREVIATION	DESCRIPTION
RI	RI	SC-IO-C	INFORMATION OUTLET (CEILING)
C#	C2	SC-IO-W	INFORMATION OUTLET (WALL)

PATHWAY SYMBOL LIST:

SYMBOL	DESCRIPTION
WIDTH X HEIGHT	CABLE TRAY, CHANNEL TRAY, BASKET TRAY
WIDTH X HEIGHT	LADDER RACK
DIAMETERø C	CONDUIT
	CONDUIT DOWN
	CONDUIT UP OR UP/DOWN
	CONDUIT SLEEVE
	CONTINUATION

TECHNOLOGY SYMBOL LIST GENERAL NOTES:

1. "C#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION.

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.

TECHNOLOGY SHEET INDEX

T000	TECHNOLOGY COVERSHEET
T201	LEVEL 01 PLANS - TECHNOLOGY
T400	TECHNOLOGY DETAILS
T600	TECHNOLOGY SCHEDULES
GRAND TOTAL: 4	

TECHNOLOGY GENERAL NOTES:

1. ##-###-# INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
2. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- A — MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- H — MOUNT ORIENTED HORIZONTALLY
- L — MOUNT IN CASEWORK
- M — MOUNT IN MODULAR FURNITURE
- S — MOUNT IN SURFACE RACEWAY

A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

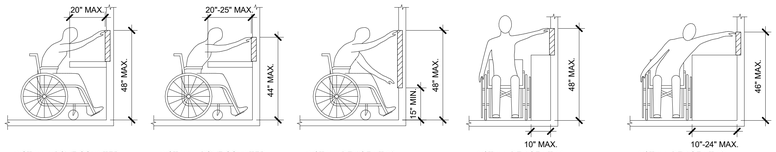
3. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
4. REFER TO DIAGRAMSS ON SHEET(S): **[TXXX, TXXX, TXXX]**.

TECHNOLOGY INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION. ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES OR EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
8. THE TECHNOLOGY CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THE CEILINGS, CEILING TILES, AND CEILING GRID ASSOCIATED WITH THE AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
9. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
10. FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
11. MOUNT BACKBOXES FLUSH WITH WALL. ALL BACKBOX HEIGHTS ARE TO CENTERLINE DIMENSION, UNLESS OTHERWISE NOTED.
12. PROVIDE RACEWAY AND BOXES LISTED FOR THE INSTALLED ENVIRONMENT. SEAL RACEWAY AND BOX FROM WATER AND MOISTURE AT TRANSITION BETWEEN DIFFERENT ENVIRONMENTAL CONDITIONS SUCH AS INTERIOR/EXTERIOR, TEMPERATURE CHANGES, ETC.

TECHNOLOGY DEMOLITION NOTES

1. THE DRAWINGS INDICATE EXISTING ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
2. ITEMS (i.e. SPEAKERS, SWITCHES, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN. (i.e., FOR MAINTENANCE PURPOSES).
3. EXISTING TO REMAIN DEVICES WITHIN OR ADJACENT TO THE PATH OF CONSTRUCTION SHALL BE PROTECTED IN PLACE. DEVICES THAT MUST BE REMOVED SHALL BE TESTED PRIOR TO REMOVAL, PROTECTED FROM DAMAGE, AND RE-INSTALLED IN ITS ORIGINAL LOCATION DURING THE NEW CONSTRUCTION PHASE OF THE PROJECT.
4. OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF THE POWER TO EQUIPMENT, SYSTEMS, PANELS, ETC. COORDINATE ALL OUTAGES WITH OWNER. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION.
5. ALL CONDUIT SHALL BE REMOVED WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE, AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS, ETC., SHALL ALSO BE REMOVED.
6. COORDINATE ALL WORK WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING EQUIPMENT AND INSTALLING NEW ITEMS.
7. EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATING EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
8. EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
9. DEVICES TO BE REMOVED SHALL HAVE ALL CONNECTED WIRING REMOVED TO THE SOURCE.
10. DEVICES NOT TO BE REMOVED SHALL BE PROTECTED FROM THE ENVIRONMENT, AND ALL ASSOCIATED CABLE/RACEWAYS ARE TO REMAIN AND BE PROTECTED. T.C. SHALL BE RESPONSIBLE FOR REPAIR OF ANY INTERRUPTIONS TO PROTECTED DEVICES.
11. REFER TO SPECIFICATIONS SECTION 27 05 00 FOR ADDITIONAL INFORMATION.



INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR.

INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

IMEG
15 SUNNEN DRIVE
SUITE 104
ST. LOUIS, MO 63143
P: 314.645.1132 F: 314.645.1173
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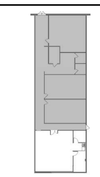
1	2/24/2025	BID ADDENDUM #3

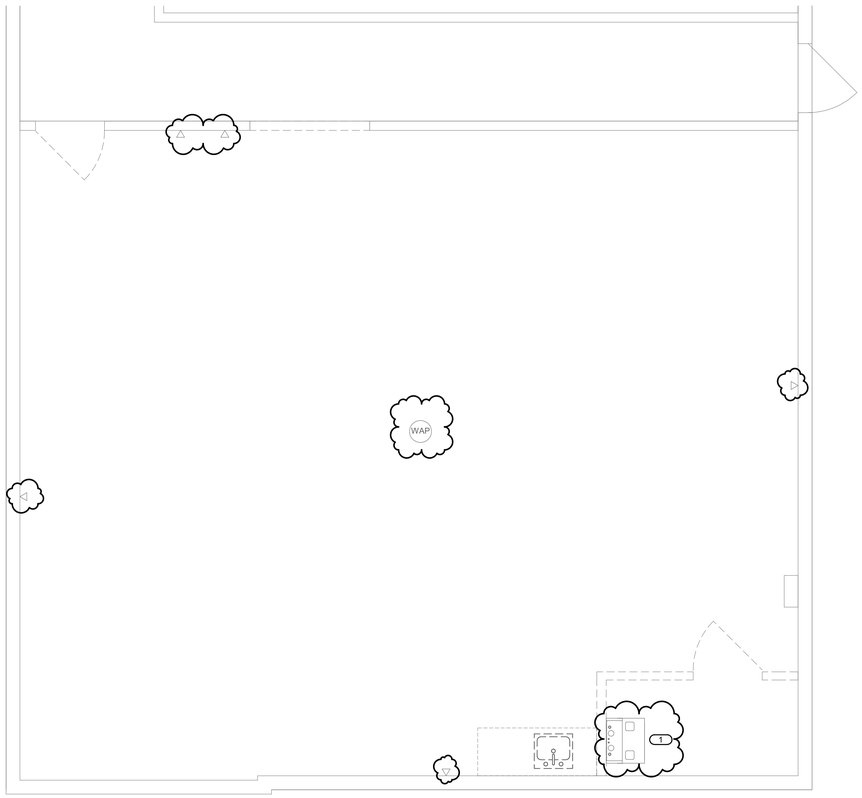
Key Plan:



Project Number: **24-3465.01**

Sheet
TECHNOLOGY COVERSHEET

T000



SHEET NOTES:

1. CAMERAS, WAPS, PROJECTORS, SPEAKERS AND DISPLAYS ARE TO BE CAREFULLY REMOVED AND ROVIDED TO OWNER OR REINSTALLED.
2. WHENEVER POSSIBLE, THE CONTRACTOR SHALL COIL EXISTING CABLE ABOVE CEILING FOR RE-TRMINATION IF CABLE LENGTH WILL ALLOW. RE-TERMINATED CABLES SHALL BE TESTED FOR WIRE MAP AND CONTINUITY.

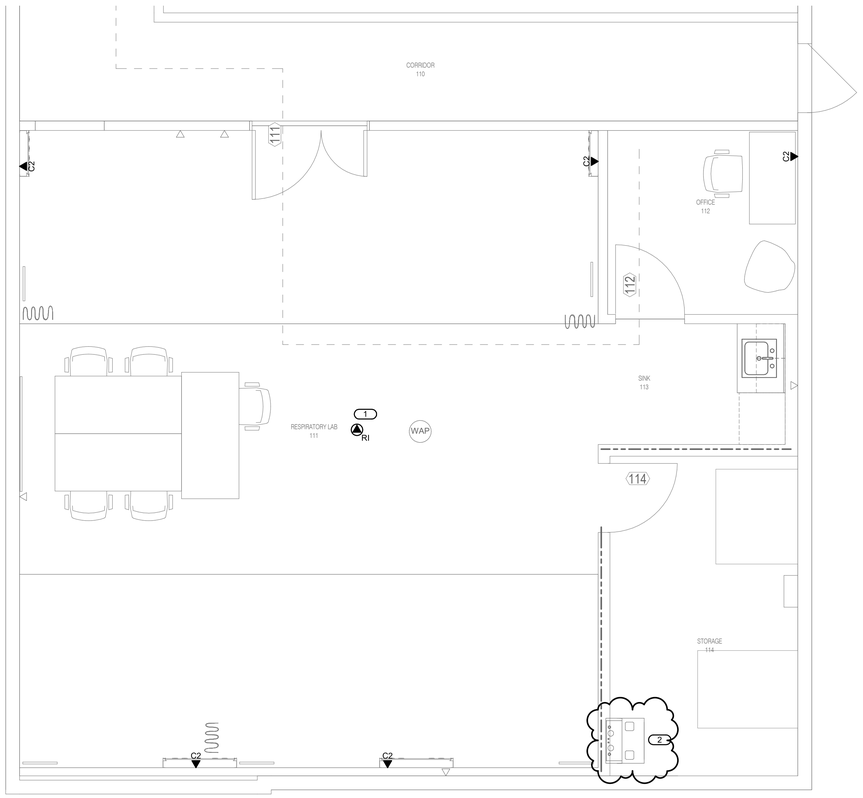
KEYNOTES: #

1. EXISTING WALL MOUNTED NETWORK EQUIPMENT RACK TO BE PROTECTED IN PLACE AND REUSED.

NORTH

1 LEVEL 01 DEMOLITION PLAN - TECHNOLOGY

3/8" = 1'-0"



KEYNOTES: #

1. CONTRACTOR TO INSTALL ROUGH-IN FOR OWNER FURNISHED AND INSTALLED WIRELESS ACCESS POINT.
2. DATA OUTLETS TO BE CONNECTED TO EXISTING WALL MOUNTED NETWORK EQUIPMENT RACK

NORTH

2 LEVEL 01 PLAN - TECHNOLOGY

3/8" = 1'-0"

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ECC Health Science
CMU Health Services
1400 Forum Blvd
Suite 16
Columbia, MO 65203

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

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NAVIGATE BUILDING SOLUTIONS
8419 MANCHESTER ROAD
SAINT LOUIS, MO 63144
618.960.4116

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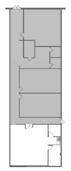

Project Number: **24-3465.01**

Sheet
LEVEL 01 PLANS - TECHNOLOGY

T201

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SUITE 104
ST. LOUIS, MO 63143
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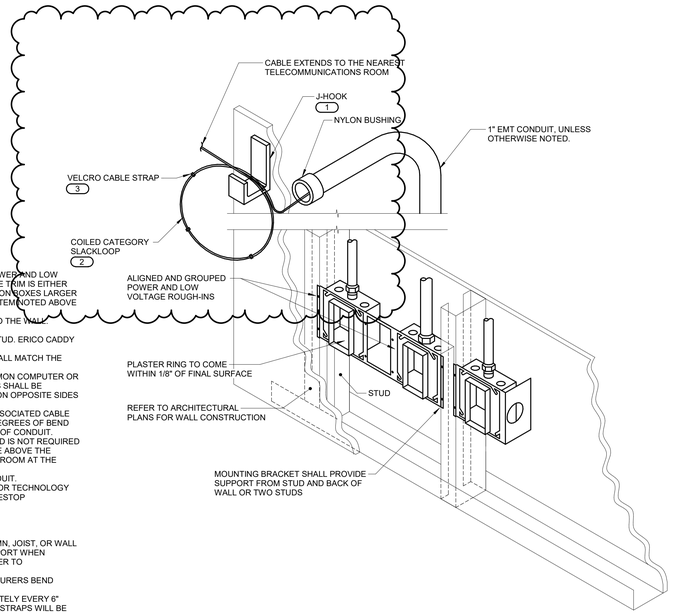


NOTES:

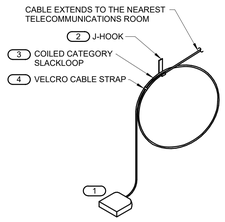
1. THE INTENT OF THE DETAIL IS TO ALIGN AND GROUP DEVICE ROUGH-INS FOR POWER AND LOW VOLTAGE TECHNOLOGY SYSTEMS, SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
2. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
3. METAL STUD-TO-STUD MOUNTING BRACKETS FOR MULTIPLE BOXES BETWEEN STUD. ERICO CADDY RBS## SERIES, EATON B-LINE BB SERIES, OR EQUAL.
4. MOUNTING SUPPORT BRACKETS SIZES FOR SINGLE BOXES IN A STUD CAVITY SHALL MATCH THE STUD DEPTH. ERICO CADDY H## SERIES, EATON B-LINE BB## SERIES, OR EQUAL.
5. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED IN THE SAME STUD CAVITY WITH MOUNTING BRACKETS OR ALIGNED ON OPPOSITE SIDES OF A COMMON STUD WITH SEPARATE SUPPORT.
6. TERMINATE CONDUIT STUB ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
7. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
8. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
9. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

KEYNOTES: (#)

1. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SECTION 27 15 00 FOR SLACKLOOP LENGTH. MAINTAIN THE MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE.
3. PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVERY 6" ALONG THE SLACKLOOP. FOR SLACKLOOPS GREATER THAN 3' A MINIMUM OF (4) STRAPS WILL BE INSTALLED.

1 TECHNOLOGY ROUGH-IN TO J-HOOK DETAIL

NO SCALE



NOTES:

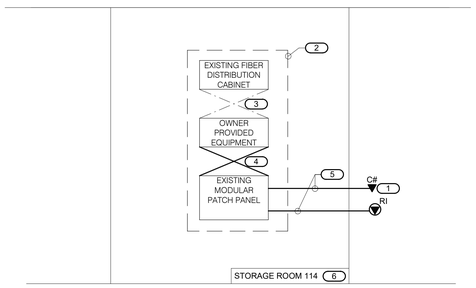
1. THIS DIAGRAM MAY NOT REPRESENT THE QUANTITY OF CABLES TO EACH INFORMATION OUTLET JUNCTION BOX. REFER TO THE DRAWINGS AND THE INFORMATION OUTLET SCHEDULE FOR ADDITIONAL INFORMATION.
2. ALL DEVICES ARE INSTALLED ABOVE THE CEILING UNLESS OTHERWISE NOTED.

KEYNOTES: (#)

1. 1-PORT PLENUM RATED SURFACE MOUNTED BOX, SUPPORT FROM J-HOOK. REFER TO THE INFORMATION OUTLET SCHEDULE AND TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
2. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST. REFER TO SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL REQUIREMENTS.
3. REFER TO SECTION 27 15 00 FOR SLACKLOOP LENGTH. MAINTAIN THE MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE.
4. PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVERY 6" ALONG THE SLACKLOOP. FOR SLACKLOOPS GREATER THAN 3' A MINIMUM OF (4) STRAPS WILL BE INSTALLED.

2 ABOVE CEILING INFORMATION OUTLET MOUNTING DETAIL

NO SCALE



NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES: (#)

1. C# INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE ON T600 FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS SECTION 27 15 00 FOR ADDITIONAL INFORMATION.
2. EXISTING CABINET AS DEFINED ON THE FLOOR PLAN. REFER TO THE COVERPAGE FOR LOCATION.
3. EXISTING FIBER OPTIC PATCH CORDS.
4. RJ-45 TO RJ45 CATEGORY 6 UTP PATCH CORDS, REFER TO SPECIFIATION 27 15 00.
5. 4-PAIR, CATEGORY 6, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
6. REFER TO SHEET T201 FOR SECURITY ROOM LOCATION.

3 TYPICAL CONNECTIVITY RISER DIAGRAM

NO SCALE

EAST CENTRAL COLLEGE

ECC Health Science
CMU Health Services
1400 Forum Blvd
Suite 16
Columbia, MO 65203

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

IMEG
16 SUNNEN DRIVE, SUITE 104
SAINT LOUIS, MO 63143
314.257.0632

NAVIGATE BUILDING SOLUTIONS
8419 MANCHESTER ROAD
SAINT LOUIS, MO 63144
618.960.4116

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NAVIGATE - (618) 960-4116

MECHANICAL ENGINEER
IMEG - (314) 257-0632

ELECTRICAL ENGINEER
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Revision Schedule

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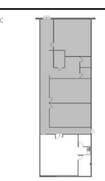
Key Plan:



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Sheet
TECHNOLOGY DETAILS

T400

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15 SUNNEN DRIVE
SUITE 104
ST. LOUIS, MO 63143
P: 314.645.1132 F: 314.645.1173
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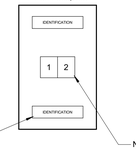
INFORMATION OUTLET SCHEDULE

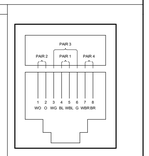
SINGLE GANG WALLPLATES

2-Port Faceplate



REFER TO SPECIFICATIONS FOR IDENTIFICATION REQUIREMENTS (TYP.)

NUMBER INDICATES FACEPLATE POSITION (TYP.)



ANSI/TIA/EIA T568B PIN/PAIR ASSIGNMENT

NOTES:
1. PROVIDE REMOVABLE BLANK INSERT(S) FOR ALL UNUSED PORTS.
2. REFER TO SPECIFICAITONS SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.

SCHEDULE NOTES:
1. LOCATION OF FUTURE OR OWNER PROVIDED WIRELESS ACCESS POINT. PROVIDE A 3' SLACKLOOP LENGTH AT THE NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION AFTER WIRELESS SURVEY. REFER TO DETAIL 2/T400 FOR ADDITIONAL INFORMATION.

LEGEND

DATA	CAT 6 RJ-45

CONFIGURATION	FACEPLATE PORTS	FACEPLATE PORT IDENTIFICATION						NOTES
		POSITION 1 JACK TYPE	POSITION 2 JACK TYPE	POSITION 3 JACK TYPE	POSITION 4 JACK TYPE	POSITION 5 JACK TYPE	POSITION 6 JACK TYPE	
C2	2	DATA	DATA					
RI	1	DATA						

TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AND MODEL
SC-IO-C	ROUGH-IN FOR OWNER FURNISHED AND INSTALLED WIRELESS ACCESS POINT. REFER TO DETAIL 2/T400 FOR ADDITIONAL INFORMATION.	OFOI (OWNER FURNISHED OWNER INSTALLED)
SC-IO-W	INFORMATION OUTLET, WALL MOUNT, 2-PORT COVERPLATE AS INDICATED ON DRAWINGS, "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. SEE INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO CLOSET SERVING THE SPACE. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (PANDUIT CFP2 OR APPROVED EQUAL). REFER TO DETAIL 1/T400 FOR ADDITIONAL INFORMATION.	COVERPLATE: PANDUIT CFPE2 SERIES JACK: CAT 6

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www.imegcorp.com
15 SUNNEN DRIVE
SUITE 104
ST. LOUIS, MO 63143
P: 314.645.1132 F: 314.645.1173

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ECC Health Science
CMU Health Services
1400 Forum Blvd
Suite 16
Columbia, MO 65203

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

IMEG
16 SUNNEN DRIVE, SUITE 104
SAINT LOUIS, MO 63143
314.257.0632

NAVIGATE BUILDING SOLUTIONS
8419 MANCHESTER ROAD
SAINT LOUIS, MO 63144
618.960.4116

OWNER'S REPRESENTATIVE
NAVIGATE - (618) 960-4116

MECHANICAL ENGINEER
IMEG - (314) 257-0632

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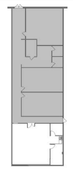


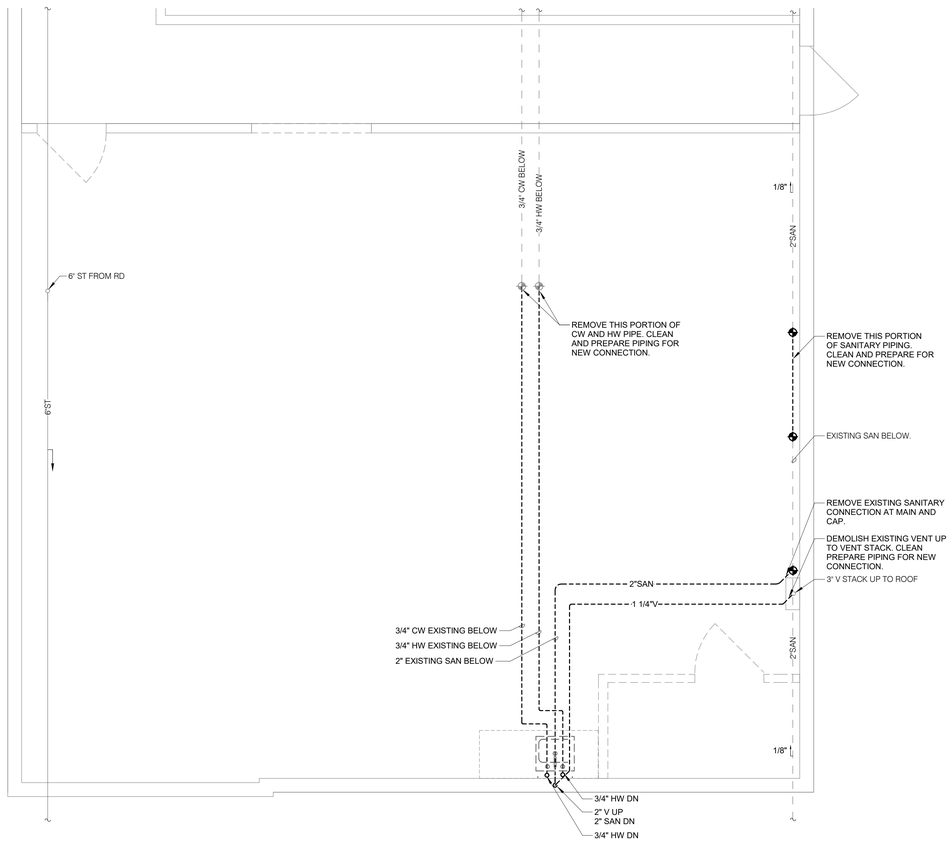
Project Number: **24-3465.01**

Sheet
TECHNOLOGY SCHEDULES

T600

GENERAL NOTES:

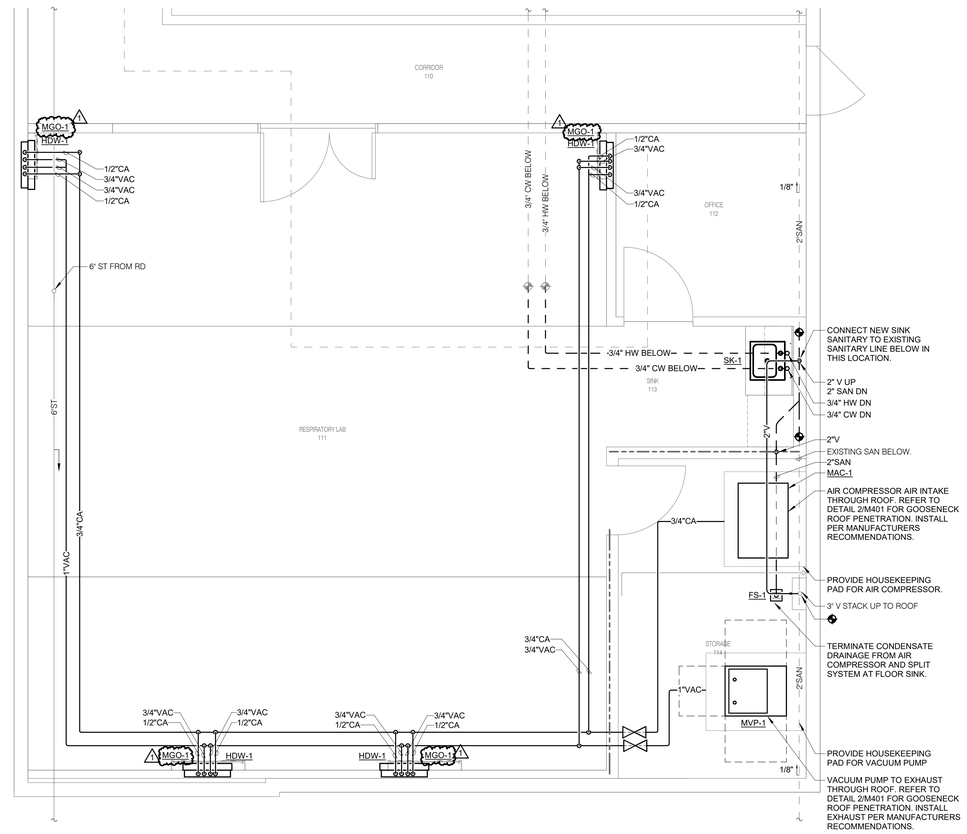
1. EXISTING CONDITIONS SHOWN ARE BASED ON INFORMATION AVAILABLE FROM EXISTING DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.



NORTH

1 LEVEL 01 DEMOLITION PLAN - PLUMBING

3/8" = 1'-0"



NORTH

2 LEVEL 01 PLAN - PLUMBING

3/8" = 1'-0"

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ECC Health Science
CMU Health Services
1400 Forum Blvd
Suite 16
Columbia, MO 65203

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

IMEG
16 SUNNEN DRIVE, SUITE 104
SAINT LOUIS, MO 63143
314.257.0632

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618.960.4116

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IMEG - (314) 257-0632

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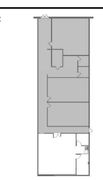

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LEVEL 01 PLANS - PLUMBING

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MED GAS MATERIAL LIST

TAG NAME	DESCRIPTION	MANUFACTURER AND MODEL
HDW-1	PRE-MANUFACTURED ASSEMBLY PROVIDED BY CONTRACTOR, INSTALLED BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING MEDICAL GAS PIPING TO HEADWALL ASSEMBLY. NUMBERS AND TYPES OF OUTLETS ARE FOR REFERENCE ONLY, VERIFY WITH ACTUAL EQUIPMENT PURCHASED. THIS HEADWALL CONTAINS THE FOLLOWING GAS OUTLETS: 2 COMPRESSED AIR (CA) OULETS 2 VACUUM (VAC) INLET 2 BLANK OUTLETS	CONTRACTOR FURNISHED. CONTRACTOR INSTALLED
MAC-1	SIMPLEX LABORATORY GRADE NFPA 99 OIL-LESS SCROLL PACKAGED LABORATORY AIR COMPRESSOR SYSTEM THAT IS VERTICAL TANK MOUNTED INCLUDING ALL CONTROLS, STORAGE TANKS, FILTRATION, DRYERS, PIPING AND VALVES. INSTALL SYSTEM WITH SINGLE POINT CONNECTIONS TO MEDICAL AIR PIPING DISTRIBUTION SYSTEM, ELECTRICAL POWER SUPPLY AND WITH ALL ACCESSORIES REQUIRED FOR PROPER OPERATION. 8.9 CFM AND 3 HP PUMP OR COMPRESSOR WITH 30 LITER VERTICAL ASME RECEIVER TANK. PROVIDE WITH CONDENSATE PUMP. REFER TO SPEC SECTION 22 60 00	BEACONMEDAES, OHIO MEDICAL, PATTONS MEDICAL, TRI-TECH, AMICO, POWEREX
MGO-1	MEDICAL GAS OUTLET GROUP WILL CONTAIN THE FOLLOWING MEDICAL GAS OUTLETS: [2] COMPRESSED AIR (LA) OUTLET(S) [2] VACUUM (VAC) INLET(S) [2] BLANK OUTLET(S) REFER TO 'OUTLETS' FOR ADDITIONAL INFORMATION.	BEACONMEDAES, OHIO MEDICAL, PATTONS MEDICAL, TRI-TECH, AMICO, POWEREX
MVP-1	SIMPLEX MEDICAL GRADE NFPA 99 OIL-LESS ROTARY VANE PACKAGED VACUUM PUMP SYSTEM THAT IS VERTICAL TANK MOUNTED INCLUDING ALL CONTROLS, STORAGE TANKS, FILTRATION, PIPING AND VALVES. INSTALL SYSTEM WITH SINGLE POINT CONNECTIONS TO VACUUM PIPING DISTRIBUTION SYSTEM, ELECTRICAL POWER SUPPLY AND WITH ALL ACCESSORIES REQUIRED FOR PROPER OPERATION. EACH PUMP SHALL HAVE CAPACITY OF REACHING A VACUUM LEVEL OF AT LEAST 27" Hg AT SEA LEVEL WITH INLET CLOSED. 5 CFM AND 1-1/2 HP PUMP OR COMPRESSOR WITH 30 GALLON VERTICAL ASME RECEIVER TANK. REFER TO SPEC SECTION 22 60 00	BEACONMEDAES, OHIO MEDICAL, PATTONS MEDICAL, TRI-TECH, AMICO, POWEREX
OUTLETS	MEDICAL GAS SERVICE OUTLET - RECESSED QUICK CONNECT TYPE WALL OUTLET. ROUGHING IN ASSEMBLY AND FINISH ASSEMBLY, MOUNTING FLANGES, PLASTER STRIKE, SECONDARY CHECK, 3/8" O.D. TYPE K COPPER INLET TUBE, LABEL IDENTIFYING SPECIFIC GAS BY NAME AND COLOR, BRUSHED STAINLESS STEEL FINISHING PLATE. SYMBOLS FOR OUTLETS ARE AS FOLLOWS: LA COMPRESSED AIR VAC VACUUM PROVIDE ONE VACUUM SLIDE ASSEMBLY WITH EACH VACUUM SERVICE ALL OUTLETS SHALL BE OHMEDA/MEDAES STYLE. VERIFY THE CONNECTION STYLE OF MEDICAL GAS OUTLET IS COMPATIBLE WITH EQUIPMENT USED IN THE FACILITY.	BEACONMEDAES, OHIO MEDICAL, PATTONS MEDICAL, TRI-TECH, AMICO, POWEREX

PLUMBING MATERIAL LIST

TAG	DESCRIPTION	MANUFACTURER AND MODEL
FS-1	FLOOR SINK - CAST IRON BODY, NICKEL BRONZE RIM AND GRATE, 6" SQUARE, 2" BOTTOM OUTLET, 6" DEEP RECEPTOR WITH ALUMINUM DOME STRAINER, ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP.	ZURN (Z1910), SMITH (3101), WADE (W-9110), JOSAM (49300), WATTS (FS-710), SIOUX CHIEF (661-2xXFNWC), SUN (FS2300), MIFAB (FS1520)
MV-1	MIXING VALVE - POINT-OF-USE ANTI-SCALD THERMOSTATIC MIXING VALVE ARRANGEMENT FOR TEMPERED WATER CONTROL, ALL BRONZE/BRASS CONSTRUCTION, ROUGH FINISH, UNION/THREADED INLETS WITH STRAINERS, COMBINATION CHECK STOPS OR SEPARATE SUPPLY CHECK VALVES AND SHUT OFF VALVES. 0.5 GPM OUTPUT MINIMUM. UNIT TO MIX 140 DEGREE F HOT WATER SUPPLY AND 40 DEGREE F COLD WATER SUPPLY FOR 110 DEGREE F OUTLET. UNIT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874.	LEONARD (170-LF/270-LF/370-LF), ACORN CONTROLS (ST7069), APOLLO (34BLF), BRADLEY (S59 SERIES), LAWLER (310/570), POWERS (SERIES LFLM495), SYMMONS (8210CK MAXLINE SERIES), WATTS (LFMMV), WILKINS (ZW1070XL)
SK-1	SINK - SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 304 STAINLESS STEEL, 19" (SIDE-TO-SIDE) x 16" (FRONT-TO-BACK) OVERALL SIZE, 11-1/2" x 6-1/2" DEEP BOWL, SOUND DEADENING ON BOTTOM OF BASIN, 3-1/2" DIAMETER DRAIN OUTLET LOCATION OFF-CENTERED REAR IN BOWL, PERFORATED TYPE 304 STAINLESS STEEL GRID STRAINER. SINK TRIM - TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, GOOSENECK RIGID SPOUT, NOMINAL 8" REACH, AERATOR, LEVER BLADE HANDLES AT 8" CENTERS, 1/4-TURN OPERATION CERAMIC DISC CARTRIDGE. MAXIMUM FLOW TO BE 2.2 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASME/ANSI STANDARD A112.18.1M. FAUCET SHALL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. PROVIDE WITH MV-1 ACCESSORIES - OFFSET 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME-PLATED SOFT COPPER OR FLEXIBLE STAINLESS STEEL SUPPLY LINES.	SINK - ELKAY (LRAD/LKAD18), JUST (SL-ADA/J-ADA-35-FS), FRANKE (ALBS), ACORN-SINKS (SDADA) SINK TRIM - CHICAGO FAUCET (786), AMERICAN STANDARD (7230.000), MOEN (8225), SPEAKMAN (SC-3000 SERIES), T&S BRASS (B-2866-05CR), ZURN (Z831-XL)

PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)
1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE. 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINIMUM OF 2". 3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER. 4) FINAL SANITARY SIZE SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).

TAG NAME	DESCRIPTION	COLD WATER	HOT WATER	SANITARY	VENT
FS-1	FLOOR SINK	-	-	2"	1 1/2"
SK-1	SINK (ACCESSIBLE)	1/2"	1/2"	1 1/2"	1 1/2"

PIPE INSULATION SCHEDULE (PLUMBING)

GENERAL NOTES:
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS.
2. TYPE A INSULATION IS NOT ALLOWED IN NON-AIR CONDITIONED SPACES, SUCH AS MECHANICAL ROOMS, EXTERIOR, ATTICS, ETC.
3. TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.
4. PROVIDE RIGID INSERT AT HANGERS, EITHER PRE-MANUFACTURED COUPLINGS (REFER TO PIPE HANGER AND SUPPORTS SPECIFICATIONS) OR TYPE C, D, OR E INSULATION. SEE SPEC. FOR MORE DETAILS.

SYMBOL	PIPE SYSTEM	INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE			NOTES
			< 1"	1" TO < 1.5"	1.5" TO < 4"	
22 PLUMBING - WATER						
CW	COLD WATER - POTABLE	A (GlsFbr), B (Elasto)	1/2"	1/2"	1"	
HW	HOT WATER - POTABLE	A (GlsFbr), B (Elasto)	1"	1"	1 1/2"	

IMEG
15 SUNNEN DRIVE
SUITE 104
ST. LOUIS, MO 63143
P: 314.645.1132 F: 314.645.1173
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EAST CENTRAL COLLEGE

ECC Health Science
CMU Health Services
1400 Forum Blvd
Suite 16
Columbia, MO 65203

ARCTURIS
701 MARKET STREET, SUITE 1300
SAINT LOUIS, MO 63101
314.206.7100

IMEG
16 SUNNEN DRIVE, SUITE 104
SAINT LOUIS, MO 63143
314.257.0632

NAVIGATE BUILDING SOLUTIONS
8419 MANCHESTER ROAD
SAINT LOUIS, MO 63144
618.960.4116

OWNER'S REPRESENTATIVE
NAVIGATE - (618) 960-4116

MECHANICAL ENGINEER
IMEG - (314) 257-0632

ELECTRICAL ENGINEER
IMEG - (314) 257-0632

PLUMBING ENGINEER
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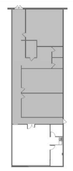

Project Number: **24-3465.01**

Sheet
PLUMBING SCHEDULES

P600