



ELLISON - AUXIER
ARCHITECTS
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ellison-auxier.com

Addendum No. 1

Date: March 24, 2022

Project: Murphy Hall Respiratory Therapy Lab, Missouri Western State University
FB 22-059

All Prospective Bidders:

All bidders furnishing necessary materials and/or labor, this addendum is hereby part of the Contract Documents as though it were originally therein. Refer to Proposal Form for acknowledgement of Addenda.

Addendum Items:

1. Completion date shall be June 22, 2022.
2. Bidders must provide a W-9 with their bid.
3. Successful bidder shall list Missouri Western State University as additional insured.
4. See the attached Pre-Bid attendance sheets.
5. See the attached Pre-Bid Outline information.
6. Access and set up areas will be determined with successful bidder. Any rutting in grass areas will need to be re graded by contractor at the completion of the project.
7. Work is restricted as follows:
 - a. Week of April 25-29, noisy work can not begin until after 7:40pm.
 - b. Week of May 2-6, noisy work can not begin until after 5:30 pm on Monday and Tuesday, and not until after 3:30 pm on Wednesday, Thursday, and Friday.



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8. Reused doors shall also reuse the frames.
9. See the attached specification for new hollow metal frames.
10. Disregard reference to specification sections on Thermal Insulation, and Weather Barriers. Required acoustic insulation is in 09 2116 Gypsum Board.
11. Ceiling grid shall be 15/16". Tile shall be Astro, 24 x 48.
12. Disregard note saying Alternate Bid on MEP sheets. All work will be under Base Bid.
13. Demo work in Classroom 210 shall be by contractor.
14. Flooring demo in rooms 209, 208, 210, Corridor 200, and lobby near elevators shall be by contractor.
15. Reference to V1 on finish schedule shall be Johnsonite IQ Optima sheet vinyl. Color to be determined.
16. Ceiling grid in Classroom 210 may be reworked to match existing after demo and will receive new tile.
17. See attached MEP items.

End of Addendum

MANDATORY PRE-BID MEETING

MURPHY HALL RESPIRATORY THERAPY LAB

NAME AND ADDRESS	COMPANY	PHONE	E-MAIL ADDRESS
Zachary Schurman	Lawson Const. Co.	816-279-6368	Zack@lawsonconst.com
John Lehr	Lehr Const Co	816-232-4113	johnlehrconstruction.com
Justin Shreve	Herner Construction	515-450-2190	justin@hernerconstruction.com
Bryan Wiedmer	Lee Grover Const.	(816) 279-7919	brycenw-lgc@sbglobal.net
Chris Herner	Herner Const.	816 232 4550	chris@hernerconstruction.com
Korey Dennis	R/S Electric Corp.	816 564 2039	Korey@rselectriccorp.com
Shelby Swartz	R/S Elect.	816-844-3594	shelby@rselectriccorp.com

MANDATORY PRE-BID MEETING

MURPHY HALL RESPIRATORY THERAPY LAB

NAME AND ADDRESS	COMPANY	PHONE	E-MAIL ADDRESS
David Mathias	MWSU R.T.	913-271-0621	DMathias@Missouriwestern.edu
Brian Harrah	MWSU		
Reginald Young	MWSU		
Wally Sloan	MWSU		
Jeff Ellison	ellison-auxiliary	816 233 8003	jeff@ellison-auxiliary.com
Brian Day	Linkford Fardman	816-221-1411	BrianE.Linkford@linkford.com

Bryan Adkins MWSU

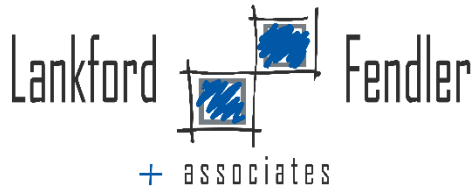
OUTLINE FOR PRE-BID CONFERENCE FB22-059

MURPHY HALL RESPIRATORY THERAPY LAB

PREVAILING WAGE PROJECT INFORMATION

- I. All present need to sign Attendance sheet (a copy of the attendance sheet can be obtained upon request by sending an email to purchase@missouriwestern.edu)
- II. When bids are submitted must have:
 - a. Signed and notarized work affidavit
 - b. **Last three pages** of E-verify Memorandum of Understanding electronically signed by vendor and Homeland Security
 - c. Invitation to Bid (Red Sheet)
 - d. W-9
- III. Pricing Sheet
- IV. Bid Bond in the amount of 5% of the total amount bid by the vendor at the time of submittal of vendor's response to the Invitation to Bid.
- V. This is a Prevailing Wage Project
 - a. Annual Wage Order #28 was in effect at the time the bid was advertised (3/11 & 3/14), last revised 05/12/21.
 - b. Ten-hour safety training: all on-site employees must complete 10-hours of safety training and must carry documentation of their successful completion while on-site. If employees do not have 10 hour safety training cards then do so at your own risk. If you would like more information on the Required Safety Training, you can go to the Division of Labor website for more information:
http://labor.mo.gov/DLS/WorkplaceSafety/required_safety_training.
- V. After bid is awarded to successful bidder-vendor
 - a. Before work starts, A Performance, Material and Labor Bond will be required from the vendor awarded the contract for the entire bid amount and a Certificate of Liability Insurance will also be required with MWSU listed as an additional insured and a list of subcontractors.
 - b. A project exemption certificate will be made available to successful bidder.
 - c. Once work has commenced, payroll for all employees working on this project will need to be submitted to Purchasing with each application for payment.
 - d. Affidavits of Compliance for all contractors and sub-contractors who worked on the project must be submitted with request for final payment.

Contractors can go to Missouri Department of Labor and Industrial Relations-
Contractors Guidebook.



ADDENDUM No.1

To: Jeff Ellison – Ellison - Auxier
From: Robert Franklin / Brian Day
Date: March 24, 2022
Project: Missouri Western State University – Murphy Hall 2nd Floor Respiratory Therapy Lab.
Cc: File **Project No:** 22.6989.00

DRAWINGS

SHEET M100

- M100.1 Bid alternate has been removed. All associated work shall be included in base bid.
- M100.2 Removal/relocation of fan powered/VAV boxes shall be by mechanical contractor.

SHEET E100

- E100.1 Bid alternate has been removed. All associated work shall be included in base bid.
- E100.2 Revised note DE02 and DE03.

SHEET E200

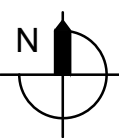
- E200.1 Lighting plan: Bid alternate has been taken out. All associated work shall be included in base bid.
- E200.2 Lighting plan: Install relocated emergency light.
- E200.3 Lighting plan: Provide dimmers and all wiring in Diagnostic 204, ICU Sim 205 and Control 206.
- E200.4 Power plan: Clarified location of panel PP2B2.
- E200.5 Power plan: Provided mounting height of wiring devices.
- E200.6 Power plan: Provide new wiring devices in Diagnostic 204 & ICU Sim. 205.

E200.7 Power plan: Provide new low voltage rough-in within Resp.Therapy 201.

If you have any questions concerning this, please do not hesitate to call.



FLOOR PLAN-ELECTRICAL DEMOLITION
SCALE: 1/8"=1'-0"



DEMOLITION PLAN:
SHOWN FOR REFERENCE ONLY ALL
WORK UNLESS OTHERWISE NOTED
UNDER SEPARATE CONTRACT WITH
THE OWNER

FLOOR PLAN NOTES

- UNLESS NOTED OTHERWISE DISCONNECT AND REMOVING ALL WIRING DEVICES, WIRING, CONDUIT, LIGHT FIXTURES, LOW VOLTAGE CABLING ETC... IF ITS NOT BE REUSED, WHERE DEVICES ARE INDICATED 'ETR', ROUGH-IN LOCATION TO REMAIN, TAKE WIRING BACK TO LAST USED SOURCE AND SPLICE FOR CONTINUATION OF EXISTING CIRCUITRY.
- BY G.C./E.C. DISCONNECT EXISTING VAV BOX. MAINTAIN WIRING FOR REUSE. REFERENCE POWER PLANS.
- BY G.C./E.C. DISCONNECT EXISTING FCU BOX. MAINTAIN WIRING FOR REUSE. REFERENCE POWER PLANS.

GENERAL NOTES (TYPICAL ALL SHEETS)

- REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.
- REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR COORDINATION OF LOCATION OF ALL WIRING DEVICES BEFORE ROUGH-IN OF J-BOXES.
- REFER TO ARCHITECTURAL PLANS FOR DETAIL OF ALL CONDUIT THRU ROOF PENETRATIONS.
- INSTALL BLANK COVERPLATE ON ALL OPEN OR ABANDONED DEVICE BOXES. VERIFY COLOR WITH ARCHITECT.
- ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR.
- NEW CIRCUITRY SHOWN FOR NEW/EXISTING POWER AND LIGHTING IS DIAGRAMMATIC AND IS INTENDED TO SHOW WHICH DEVICES ARE TO BE GROUPED ON INDIVIDUAL CIRCUITS. EXISTING WIRING THAT CONFORMS TO THE INTENT OF THE DRAWINGS MAY BE USED.
- CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100AMPS.
- SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF (4) 12 GA. HANGER WIRES TO STRUCTURE ABOVE.
- CONNECT EXIT AND EMERGENCY LIGHTS TO HOT LEG, NOT SWITCH LEG.
- ALIGN ALL WIRING DEVICES IN VERTICAL ALIGNMENT. IF ANY DEVICE(S) ARE FOUND NOT TO BE INSTALLED PER DETAIL CONTRACTOR SHALL RELOCATE AND PAY ALL ASSOCIATED COSTS ASSOCIATED WITH THE RELOCATION(S).
- LIGHTING INDICATED ABOVE EXIT DISCHARGE DOOR IS FOR MEANS OF EGRESS ILLUMINATION PER IBC 1006.1.
- MEANS OF EGRESS TO BE ILLUMINATED AT NOT LESS THAN 1 FOOTCANDLE AT THE FLOOR. CONTRACTOR SHALL PROVIDE AND INSTALL IF NECESSARY ADDITIONAL EMERGENCY FIXTURES IF NECESSARY TO MEET THE REQUIRED READINGS.
- PROVIDE FIRE STOP ON ALL PIPING AT FLOOR PENETRATIONS PER LOCAL CODE REQUIREMENTS. METHOD OF FIRE STOP SHALL MEET WALL RATING. RE: ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS. PROVIDE FIRE CAP HOUSING FOR ALL FIXTURES THAT PENETRATE FIRE RATED CEILINGS.
- CONDUIT SHALL BE USED FOR CONDUCTORS WHERE REQUIRED BY N.E.C.
- OUTLETS INSTALLED IN FIRE RATED ASSEMBLES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".
- CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND SIZE WIRE ACCORDINGLY. PER N.E.C.
- PROVIDE 3'-0" CLEARANCE IN FRONT OF DISCONNECTS TO CONDENSING UNITS.
- WHERE MORE THAN ONE SWITCH IS INDICATED ON DRAWINGS SIDE BY SIDE, CONTRACTOR SHALL INSTALL SWITCHES UNDER ONE COMMON FACE PLATE.
- CONTRACTOR MAY NOT WIRE SO FIRST GFI OUTLET PROTECTS ALL DOWN STREAM OUTLETS.
- UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- ELECTRICAL CONTRACTOR SHALL SCAN FLOOR UTILIZING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OF SLAB AND SHALL VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.
- CONTRACTOR SHALL PROVIDE HIS/HER OWN SUPPORTING OF CABLING FROM STRUCTURE ABOVE, I.E. TEMPERATURE CONTROL WIRING, SECURITY CONTROL WIRING, FIRE ALARM CONTROL WIRING, OR ANY OTHER WIRING CONTAINING VOLTAGE. CONTRACTOR SHALL NOT RUN PARALLEL WITH OR BE SUPPORTED BY ANY UTP, COAX OR VIDEO CABLING (CABLES INDICATED ON TECHNOLOGY DRAWINGS). IF CABLES ARE FOUND TO BE SUPPORTED WITH THESE CABLES, CONTRACTOR SHALL REMOVE CABLES, REROUTE AND RE-SUPPORT AT THEIR OWN EXPENSE. IF UTP CABLES ARE DAMAGED WHILE EITHER INSTALLING OR REMOVING SUCH CABLES, THE CONTRACTOR(S) THAT DID SUCH DAMAGE SHALL COVER COST TO REPLACE CABLES AT THEIR OWN EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE RECONNECTION OF ALL EXISTING ELECTRICAL LOADS, WHICH ARE TO REMAIN, TO NEW ELECTRICAL DISTRIBUTION SYSTEM.
- WHERE THE DRAWINGS INDICATE DEDICATED CIRCUITRY WITH NO SHARED NEUTRALS, THE CONTRACTOR SHALL NOT INSTALL MULTI-WIRE BRANCH CIRCUITS WITH A COMMON
- ALL PATIENT CARE AREAS SHALL MEET GROUNDING REQUIREMENTS OF NEC ARTICLE 517.13. WHERE TYPE MC CABLE IS USED, THE METAL SHEATHING SHALL BE LISTED AS AN ACCEPTABLE GROUNDING PATH.

ELECTRICAL SYMBOLS

- BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE MINIMUM NO.12 UNLESS NOTED OTHERWISE
- PHASE CONDUCTORS
NEUTRAL CONDUCTOR
SWITCH-LEG AND OR TRAVELER
GROUND CONDUCTOR
- LP1-10
1/3, 1/3/5
- PANEL - BREAKER NUMBER (IDENTIFICATION)
INDICATES XX= 2-POLE C.B., X/X= 3-POLE C.B.
- HOMERUN INDICATED LIKE THIS INDICATED THREE SEPARATE CIRCUITS
- CONDUIT CONCEALED IN CEILING OR WALL WITH THREE CONDUCTORS: 1-PHASE, 1-NEUTRAL, 1-GROUND WIRE, MINIMUM NO.12 WIRE UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
- CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.
- GROUNDING CONDUCTOR NO.12 WIRE EXCEPT AS NOTED
- EXIT SIGN - SINGLE FACED - ARROWS AS SHOWN ON DRAWING. SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT.
- EXIT SIGN - DOUBLE FACED - ARROWS AS SHOWN ON DRAWING. SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT.
- COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT - CEILING OR WALL MOUNTED. SHADED SIDE(S) INDICATES FACE SIDE(S) OF EXIT.
- CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT WITH INTEGRAL BATTERY AND UNIT MOUNTED HEADS.
- 2x4 / 2x2 LIGHT FIXTURE, LETTER DENOTES FIXTURE TYPE, REFER TO SCHEDULE
- WALL MOUNTED LIGHT FIXTURE, SIZE AND TYPE AS NOTED
- 208Y/120V PANELBOARD (SURFACE) TOP MOUNTED 6'-0" AFF
- DISTRIBUTION PANEL (SURFACE OR FLOOR MOUNTED).
- 480/277V PANELBOARD (SURFACE) TOP MOUNTED 6'-0" AFF
- SINGLE POLE SWITCH, TOP OF DEVICE BOX AT +4'-0" AFF
- WALL MOUNTED MOTION SENSOR, RE: SCHEDULE TOP OF DEVICE BOX AT +4'-0" AFF, TYPE AS INDICATED
- DIMMER SWITCH, TOP OF DEVICE BOX AT +4'-0" AFF
- CEILING MOUNTED MOTION DETECTOR TYPE AS INDICATED
- DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED
- DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP
- GROUND FAULT TYPE RECEPTACLE.
- DEDICATED CIRCUIT
- DOUBLE DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED
- DOUBLE DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
- WALL MOUNTED OR CEILING MOUNTED JUNCTION BOX.
- TV OUTLET, DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING. INSTALL 1" CONDUIT STUBBED UP OUT OF TOP OF BOX TO ABOVE AN ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
- LOW VOLTAGE OUTLET, DOUBLE GANG BOX WITH SINGLE GANG PLASTER RING. INSTALL 1" CONDUIT STUBBED UP OUT OF TOP OF BOX TO ABOVE AN ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
- LOW VOLTAGE OUTLET INSTALLED ABOVE COUNTER.
- FA VISUAL FIRE ALARM STROBE LIGHT, CEILING MOUNTED
- FA COMBINATION AUDIBLE/VISUAL CEILING MOUNTED (FLUSH)
- INDICATES WIRING DEVICE ABOVE RE: DRAWING
- MECHANICAL EQUIPMENT CALL OUT BUBBLE
- ELECTRICAL EQUIPMENT PROVIDED BY AND INSTALLED BY E.C.
- HEIGHT TO TOP OF THE OUTLET BOX ABOVE FINISHED FLOOR
- ABOVE FINISH FLOOR
- EXISTING TO REMAIN
- CEILING MOUNTED SPEAKER (INSTALLED BY OTHER, SHOWN FOR REF. ONLY)
- CAMERA (INSTALLED BY OTHER, SHOWN FOR REF. ONLY)



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CONSULTANTS



NO.	ISSUE DESCRIPTION	DATE

NO.	REVISION DESCRIPTION	DATE
1	ADDENDUM No. 1	03/24/2022

FOR PERMIT

PROJECT:
MURPHY HALL 2ND FLOOR RESPIRATORY
THERAPY LAB
MISSOURI WESTERN STATE
UNIVERSITY
4525 DOWNS DRIVE
ST. JOSEPH, MO

FLOOR PLAN-
ELECTRICAL
DEMOLITION

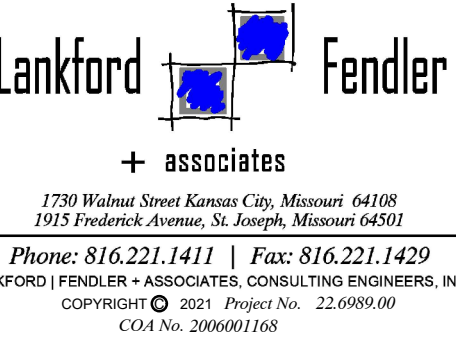
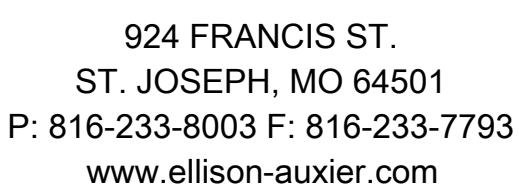
SHEET:

E100

OF: DATE: 03/10/2022



1. RECONNECT TO EXISTING LIGHTING CIRCUITRY THAT PREVIOUSLY FED LIGHTS IN THIS AREA.
2. RECONNECT TO EXISTING LIGHTING CIRCUITRY IN THIS AREA.
3. COORDINATE DEVICE ROUGH-IN LOCATION WITH OWNER.
4. PROVIDE DOUBLE GANGE J-BOX WITH (1) 1-1/4". STUBBED UP INSIDE WALL AND TURN OUT INTO ACCESSIBLE CEILING SPACE ABOVE. PROVIDE NYLON BUSHING ON BOTH ENDS.
5. INSTALL OUTLETS 14" ABOVE COUNTER TOP. VERIFY WITH OWNER PRIOR TO ROUGH-IN.
6. OUTLET INSTALLED IN HEAD-END WALL DEVICE BY OTHERS. VERIFY WITH OWNER EQUIPMENT PRIOR TO INSTALLATION.
7. PROVIDE (2) 3" CONDUIT SLEEVE ABOVE CEILING THRU FULL HEIGHT WALL. FOR LOW VOLTAGE CABLE USAGE BY OTHERS. INSTALL NYLON BUSHINGS ON BOTH ENDS.
8. REMOVE BREAKERS 12/14/16. INSTALL NEW 100A/3P BREAKER TO FEED PANEL PP2B2. TURN BREAKERS OVER TO THE OWNER.
9. VERIFY FINAL LOCATION PANEL WITH IN THIS ROOM WITH THE OWNER (LOCATED BY CONDUITS ON THIS WALL). PANEL TO MATCH OTHER MANUFACTURERS (GE A-SERIES PANELBOARD). PROVIDE PANEL PP2B INSTALL 1-1/4". 4-#3 (C) & 1-#8 (CU) GROUND WIRE.
10. INSTALL MOTION SENSOR TO MATCH CAMPUS STANDARDS (WATT-STOPPER) W-2000H SERIES.
11. PROVIDE DIMMER TO MATCH OWNER PROVIDED LIGHTS.
12. EXTEND AND RECONNECT TO EXISTING VAV CIRCUITRY THAT PREVIOUSLY FED THIS PIECE OF EQUIPMENT.
13. EXTEND AND RECONNECT TO EXISTING FCU CIRCUITRY THAT PREVIOUSLY FED THIS PIECE OF EQUIPMENT.
14. HOME-RUN AND CONNECT TO EXISTING 480/277 VOLT TH/AC EQUIPMENT PANEL IN THE ELECTRICAL ROOM NEXT TO THE BATHROOM. PROVIDE NEW 20A/1P BREAKER AND LABEL 'FCU SUITE 208'.
15. MOUNT 1 1/4" BELOW CEILING. VERIFY WITH MWVS TECHSERVICE BEFORE ROUGH IN.
16. PROVIDE 1 1/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE FOR LOW VOLTAGE USAGE

[illegible]

PROJECT:
MURPHY HALL, 2ND FLOOR RESPIRATORY
THERAPY LAB

MISSOURI WESTERN STATE
UNIVERSITY

4525 DOWNS DRIVE
ST. JOSEPH, MO

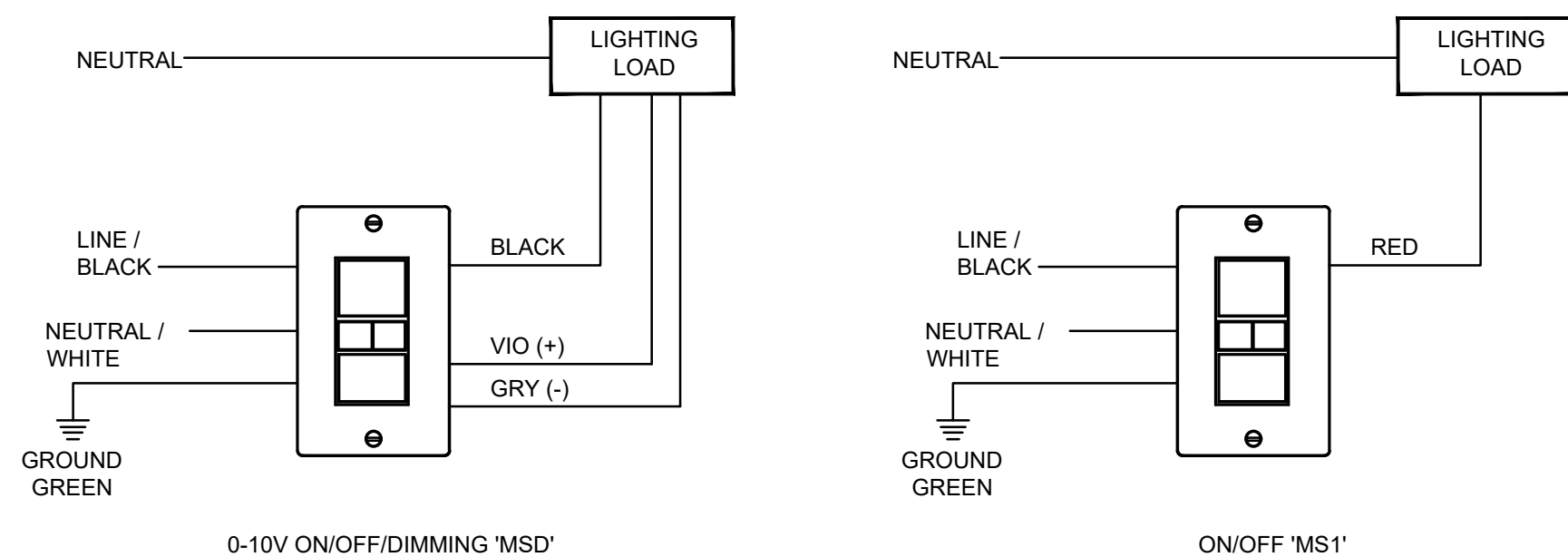
FLOOR PLANS- POWER & LIGHTING

SHEET:
E200

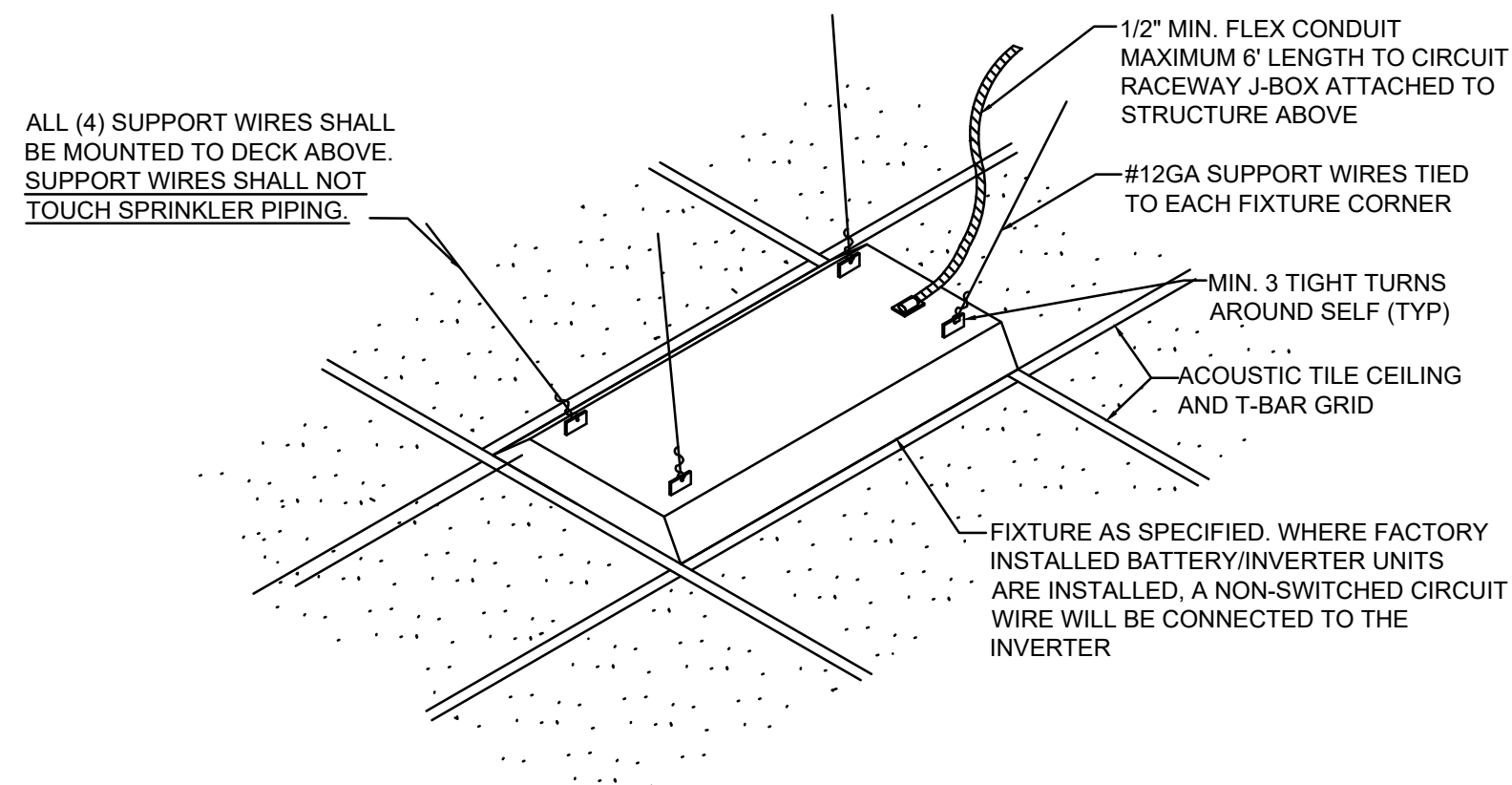
OF: DATE: 03/10/2022

LIGHT FIXTURE SCHEDULE				
TYPE	DESCRIPTION	LAMPS	WATTS	NOTES
			VOLTS	
A	EIKO NO. BLP24/OS50/FCCT/UD - NO EQUALS 2X4 LED FLAT PANEL (ON/OFF WIRED) PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.	LED FIELD SELECTABLE	50 UNV.	
B	EIKO NO. BLP24/OS50/FCCT/UD - NO EQUALS 2X4 LED FLAT PANEL (0-10V WIRED) PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.	LED FIELD SELECTABLE	50 UNV.	
C	KEYLESS PORCELAIN LAMP HOLDER WITH SCREW IN LED BULB	LED 4K	10 120	
R	RELOCATED 2X4 LIGHT FIXTURE			
RE	RELOCATED EMERGENCY LIGHT			
E	EXITRONIX NO. LED-52 EMERGENCY LIGHT, LOW PROFILE, WHITE HOUSING	LED	2 UNV.	
X	EXITRONIX NO. QCRT-R-WH EXIT SIGN, RED LETTERS, WHITE HOUSING, W/2-EM HEADS	LED	4 UNV.	

PANELBOARD PP2B2													
BUS AMPS: 100A MAIN SIZE / TYPE: 100A VOLTS/PHASE: 208Y/120V, 3PH, 4W SECTION: 1				SCCR: EXISTING NEMA TYPE: 1 MOUNTING: SURFACE LOCATION:			FULLY RATED TYPE: BRANCH CIRCUIT PANELBOARD MANUFACTURER: MFG MODEL: OPTIONS:						
CKT #	CIRCUIT DESCRIPTION	CB AMPS	P	LOAD VA	A VA	B VA	C VA	LOAD VA	P	CB AMPS	CIRCUIT DESCRIPTION	CKT #	
1	REC. S.208 GEN RESP. THERAPY	20	1	1,080	2,160			1,080	1	20	REC. S.208 GEN RESP T/CTRL RM	2	
3	D.REC. S.208 RESP. THERAPY	20	1	1,000		2,000		1,000	1	20	D.REC. S.208 RESP. THERAPY	4	
5	REC. S.208 CTRL. RM/ICU SIM	20	1	720			1,440	720	1	20	REC. S.208 ICU SIM/OPEN AR.	6	
7	REC. S.208 RESP. THERAPY PEN.	20	1	720	1,440			720	1	20	REC. S.208 RESP. THERAPY PEN.	8	
9	REC. S.208 GEN.	20	1	720		1,920		1,200	1	20	D. REC. S.208 AIR COMPR.	10	
11	REC. S. 208 GEN DIAG. & OPEN AR.	20	1	720			1,440	720	1	20	REC. S. 208 RESP. THE. CTR	12	
13	SPARE	20	1	0	0			0	1	20	SPARE	14	
15	SPACE ONLY			0		0		0			SPACE ONLY	16	
17	SPACE ONLY			0			0	0			SPACE ONLY	18	
19	SPACE ONLY			0	0			0			SPACE ONLY	20	
21	SPACE ONLY			0		0		0			SPACE ONLY	22	
23	SPACE ONLY			0			0	0			SPACE ONLY	24	
25	SPACE ONLY			0	0			0			SPACE ONLY	26	
27	SPACE ONLY			0		0		0			SPACE ONLY	28	
29	SPACE ONLY			0			0	0			SPACE ONLY	30	
PER PHASE CONNECTED - VA					3,600	3,920	2,880	TOTAL CONNECTED - VA					10,400
PER PHASE CONNECTED - AMPS					30	33	24	TOTAL CONNECTED - AMPS					29
					TOTAL DEMAND - VA							10,200	
					NEC TOTAL DEMAND - AMPS							28	
NOTES:													
*REFER TO THE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART FOR SIZING BRANCH CIRCUITS OF 100A OR LESS													

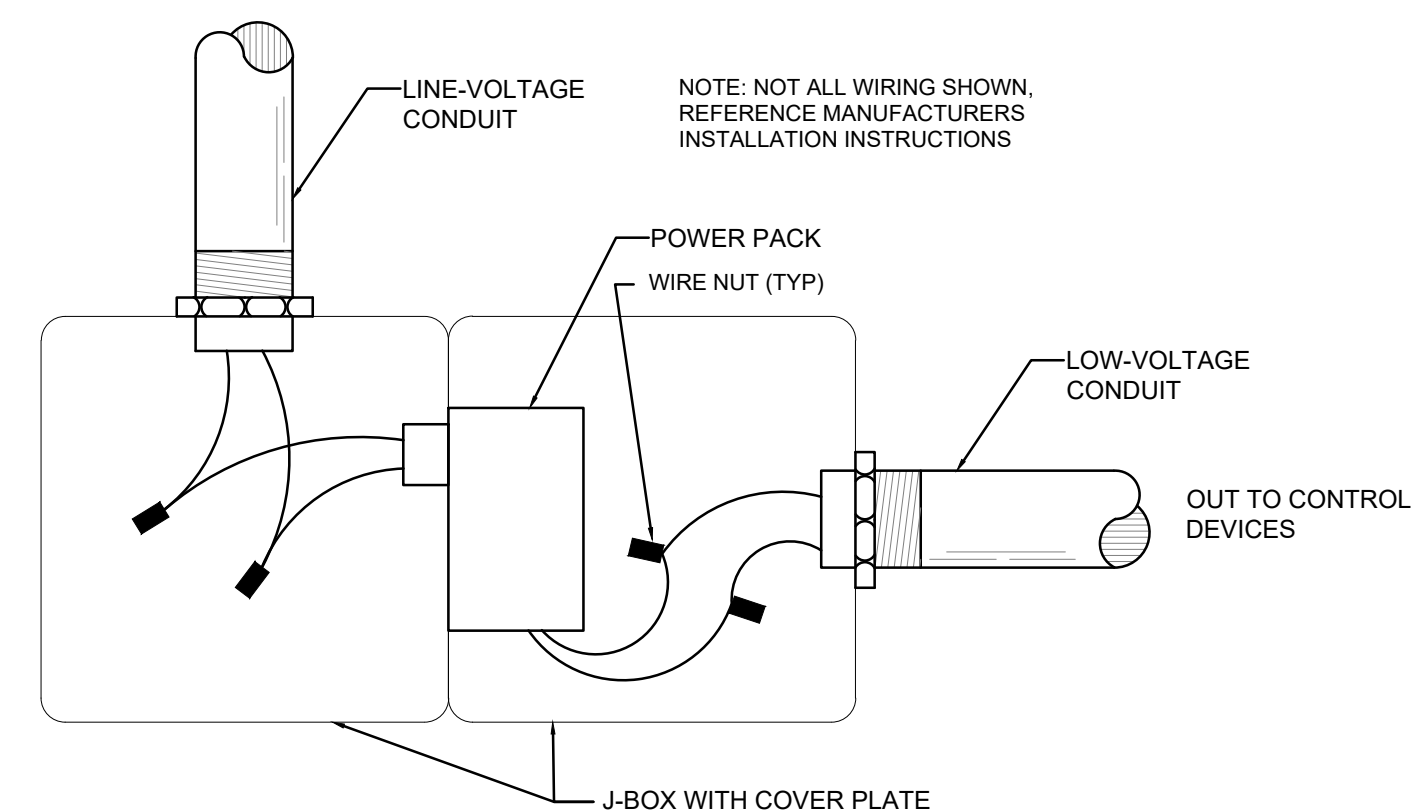


WALL MOUNTED MOTION SENSOR
SWITCH SINGLE ZONE ON/OFF DETAIL
NO SCALE



LIGHT FIXTURE MOUNTING AND BRACING DETAIL

NO SCALE



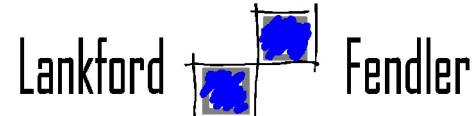
EXPOSED AREA POWER PACK INSTALLATION DETAIL

NO SCALE



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+ associates
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PROJECT:
MURPHY HALL, 2ND FLOOR RESPIRATORY
THERAPY LAB

MISSOURI WESTERN STATE
UNIVERSITY

4525 DOWNS DRIVE
ST. JOSEPH, MO

ELECTRICAL DETAILS & SCHEDULES

SHEET:
E300

OF: DATE: 03/10/2022