

Architect's Supplemental Instructions

Architect's Project No:
04561.01

Architect's ASI No: 036

Project:
Webster University
Interdisciplinary Science
Building

Date Issued: 11/30/2016

Contract Date:

Reason Code: 06 Owner's Scope

Discipline Code: 03 Electrical

Owner:
Webster University

Architect:
Cannon Design
1100 Clark Avenue
St. Louis, MO 63102

Contractor:
Paric Construction

Contract For: General Construction

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Indicate your acceptance of these instructions for minor change to the Work as consistent with the Contract Documents and return a copy to the Architect within fourteen (14) business days of the date of issuance of these instructions. If you feel a change in Contract Sum or Contract Time is warranted, please submit an itemized quotation for the changes for approval within fourteen (14) business days of the date of issuance of these instructions prior to proceeding on the Work. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change.

Attachments:

Drawings:

E0102.A, E0102.B, E0103.A, E0103.B, E0104.A, E0503, T0103.B.

St. Louis
Baltimore
Boston
Buffalo
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Los Angeles
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Toronto
Vancouver
Victoria
Washington DC

Architect's Supplemental Instructions

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Description:

Please submit an itemized proposal for changes in contract Sum and Contract Time for proposed modifications to the Contract Documents described herein:

SHEET E0102.A LEVEL 02 AREA A FLOOR PLAN – ELECTRICAL

- In room 291, provide emergency power for Deli Refrigerator and connect to 1SL1-43.
- In room 289B, connect refrigerator to emergency power circuit 1SL1-23. Delete branch circuit 20 previously serving equipment.
- In room 289B, connect incubator to emergency power circuit 1SL1-45. Delete branch circuit 18 previously serving equipment.
- In room 289A, connect refrigerator/freezer to emergency power circuit 1SL1-22. Delete circuit 18 previously serving equipment.
- In room 292, provide emergency power for under counter refrigerator and connect to 1SL1-38.
- In room 283, provide emergency power for freezer and connect to circuit 1SL1-24.
- In room 283, provide emergency power for refrigerator and connect to circuit 1SL1-40.

SHEET E0102.B LEVEL 02 AREA B FLOOR PLAN – ELECTRICAL

- In room 235, extend circuit 1SL1-49 to receptacle in floor box to serve MySeq System.

SHEET E0103.A LEVEL 03 AREA A FLOOR PLAN – ELECTRICAL

- In room 389, connect deli cabinet to emergency power circuit 1SL1-3. Delete circuit 20 previously serving equipment.
- In room 383, provide emergency power for incubator and connect to circuit 1SL1-28.
- In room 374B, provide emergency power for refrigerator and connect to circuit 1SL1-47.
- Add Keyed Note E79 to notes list, for aquarium lights.
- In room 378, revise location of emergency aquarium quad receptacles and add three ceiling mounted duplex receptacles for aquarium lights.

SHEET E0103.B LEVEL 03 AREA B FLOOR PLAN – ELECTRICAL

- In room 305, provide column mounted duplex receptacle.

Architect's Supplemental Instructions

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SHEET E0104.A LEVEL 04 AREA A FLOOR PLAN – ELECTRICAL

- In room 478, connect refrigerator to emergency power circuit 1SL1-30. Delete branch circuit 26 previously serving equipment.

SHEET E0503 PANEL SCHEDULES

- Revise Panel 1SL1 to be 54 pole in-lieu of 42 pole.
- Update Panel 1SL1 circuit descriptions as shown.

T0103.B – LEVEL 03 FLOOR PLAN – AREA B

- Office Staff 305 – Deleted the floor data outlet. Added a column mounted data outlet.

Issued by Architect: Mark de la Fuente, William Tao & Associates, Inc.
Tom Becker, Faith Group.

Accepted by Contractor:

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CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

William Tao & Associates, Inc.
MERFP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc.
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd., Suite 100
St. Louis, MO 63143
314.591.2229

Kuhmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave.
St. Louis, MO 63130
314.725.6616

KWA Architects
Architecture
3721 Litzinger Road
St. Louis, MO 63124
314.962.2560

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd.
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Planning & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
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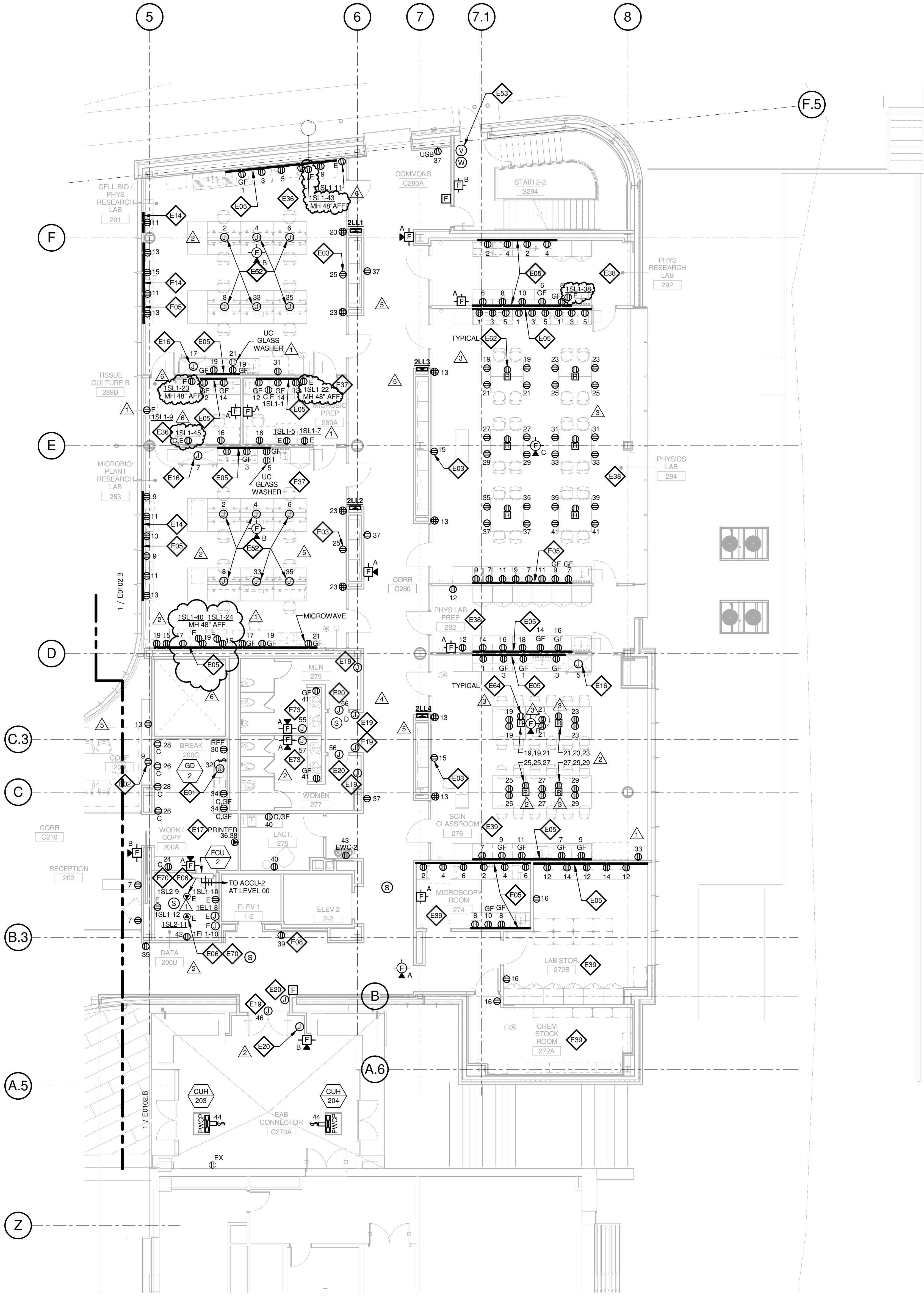
GENERAL NOTES:

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION AND ORIENTATION OF DEVICES. WHERE LOCATIONS ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, COORDINATE LOCATION AND ORIENTATION OF DEVICES IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
- ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".
- CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.
- PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.
- WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND AV.

- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 2N1.1 UNLESS NOTED OTHERWISE.

KEYED NOTES

- REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- PROVIDE NEW RECEPTACLE FOR MONITOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.
- PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND AV DRAWINGS.
- PROVIDE NEW TWO SECTION ALUMINUM RACEWAY, WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.
- OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- OUTLET FOR DIGITAL SIGNAGE, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND AV DRAWINGS.
- SURFACE RACEWAY AT EXTERIOR WINDOWS SHALL BE FED FROM BELOW OR FROM ADJACENT WALL OR COLUMN.
- PROVIDE POWER AND FINAL CONNECTIONS TO FUME HOOD.
- PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER. COORDINATE POWER REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.
- PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 2L1.1.
- ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 2L2.2.
- ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 2L3.3.
- ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 2L4.4.
- PROVIDE POWER AND FINAL CONNECTIONS TO OVERHEAD SERVICE CARRIER. REFER TO LIGHTING PLANS FOR LIGHTING CIRCUITS. COORDINATE WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.
- PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPB4TCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPB4TCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (3) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R, (1) GANG BLANK. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- PROVIDE NEMA LS-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- PROVIDE POWER AND FINAL CONNECTIONS FOR ELECTRIC HAND DRYER.



1 LEVEL 02 - AREA A - FLOOR PLAN - POWER AND AUXILLARY

1/8" = 1'-0"



KEY PLAN

Drawing Title:

**LEVEL 02 AREA A FLOOR
PLAN - ELECTRICAL &
AUXILIARY**

Project No.: 04561.01 Checked by:

E0102.A

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MER/FP Engineer
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St. Louis, MO 63143
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314.725.6616

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St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
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St. Louis, MO 63119
314.644.5700

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Plumbing & Fire Protection
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GENERAL NOTES:

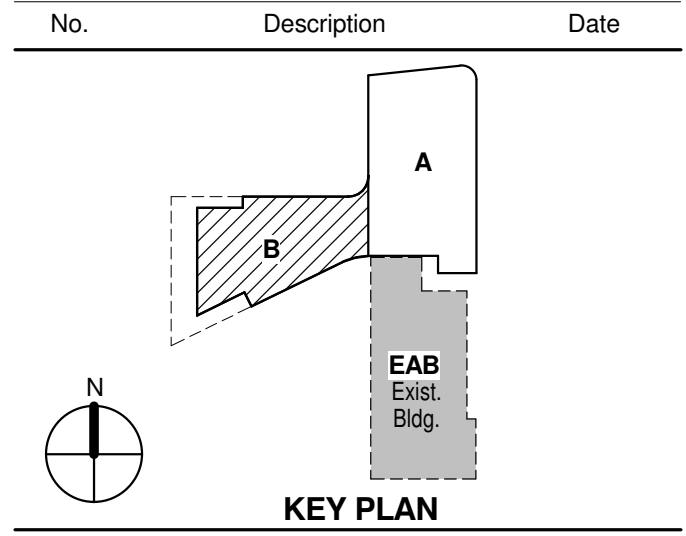
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- ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
- ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".
- CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.
- PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.
- WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND A/V.

- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 2NL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

- E01** REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E02** PROVIDE NEW RECEPTACLE FOR MONITOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.
- E04** PROVIDE CONNECTION TO MOTORIZED PROJECTION SCREEN AND UP/DOWN CONTROLS.
- E06** OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- E07** OUTLET FOR RACK MOUNTED A/V EQUIPMENT, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E17** PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- E19** PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER. COORDINATE POWER REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.
- E20** PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- E55** PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- E59** PROVIDE NEW QUAD RECEPTACLE FLUSH MOUNTED IN CEILING FOR PROJECTOR. VERIFY EXACT LOCATION WITH ARCHITECTURAL AND A/V DRAWINGS.
- E61** PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RF82S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTOBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (1) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E63** PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RF84S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTOBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (1) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E68** PROVIDE FIRE ALARM CONTROL MODULE TO RELEASE POWER TO ELECTRICALLY HELD OPEN FIRE DOOR UPON ACTIVATION OF ASSOCIATED SMOKE DETECTOR.
- E69** ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 2LL5.
- E70** PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- E76** PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RF82S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTOBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (3) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.

5	ASI-036	30 NOV 2016
4	ASI-035	10 NOV 2016
3	ASI-017	14 OCT 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

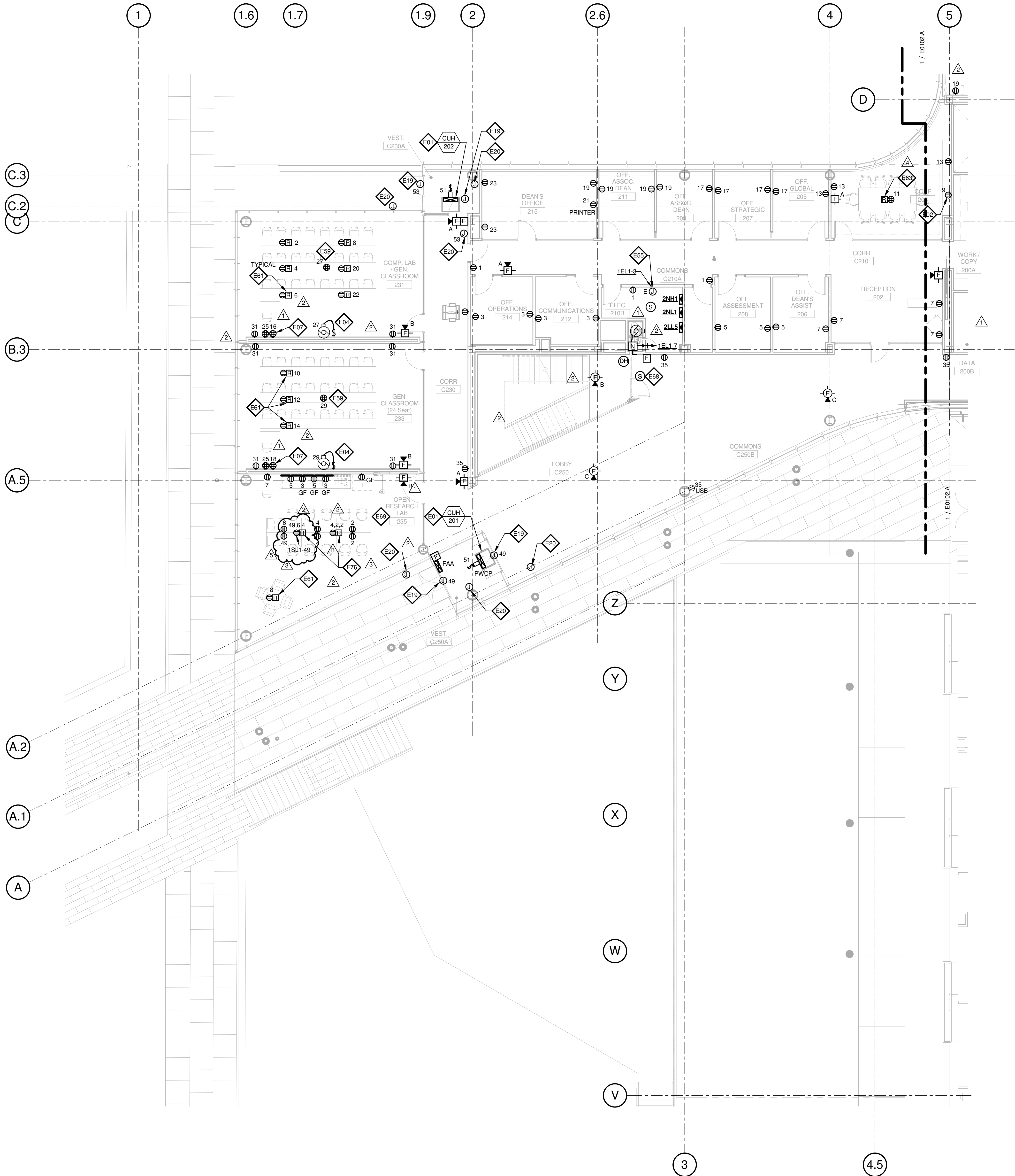


Drawing Title:

LEVEL 02 AREA B FLOOR PLAN - ELECTRICAL & AUXILIARY

Project No.: 04561.01 Checked by:

E0102.B



1 LEVEL 02 - AREA B - FLOOR PLAN - POWER AND AUXILLARY

1/8" = 1'-0"

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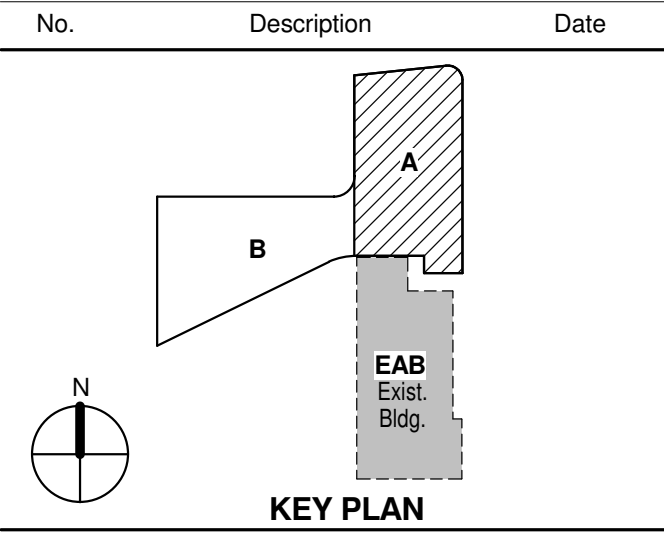
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- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND A/V.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 3NLL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

- E01 REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E03 PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E05 PROVIDE NEW TWO SECTION ALUMINUM RACEWAY. WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.
- E06 OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- E08 OUTLET FOR DIGITAL SIGNAGE, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E13 PROVIDE A DUCT MOUNTED SMOKE DETECTOR(S) AT RETURN AIR GRILLE OF AHU-1 & AHU-2. BOTH AIR HANDLING UNITS SHALL SHUT DOWN UPON ACTIVATION OF THE DUCT MOUNTED SMOKE DETECTOR(S). PROVIDE REMOTE INDICATOR LIGHT(S) IN CEILING BELOW.
- E14 SURFACE RACEWAY AT EXTERIOR WINDOWS SHALL BE FED FROM BELOW OR FROM ADJACENT WALL OR COLUMN.
- E16 PROVIDE POWER AND FINAL CONNECTIONS TO FUME HOOD.
- E17 PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- E40 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 3LL1.
- E41 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 3LL2.
- E42 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 3LL3.
- E43 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 3LL4.
- E51 PROVIDE 20A GFCI QUAD RECEPTACLE WITH AUDIBLE ALARM ON EMERGENCY CIRCUIT FOR FISH TANK. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- E53 COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.
- E62 PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPB7C8S-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A STANDARD DUPLEX RECEPTACLES. NEMA 6-20R. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E70 PROVIDE NEMA LS-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- E73 PROVIDE POWER AND FINAL CONNECTIONS FOR ELECTRIC HAND DRYER.
- E77 PROVIDE POWER TO EVAPORATOR COIL, LIGHTS, CONTROLS ETC. FOR A COMPLETE INSTALLATION OF WALK-IN COOLER.
- E79 PROVIDE 20A GFCI DUPLEX RECEPTACLE CEILING MOUNTED FOR POWER TO AQUARIUM LIGHTS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS AND ELEVATIONS.

5	ASI-036	30 NOV 2016
4	ASI-035	10 NOV 2016
3	ASI-017	14 OCT 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

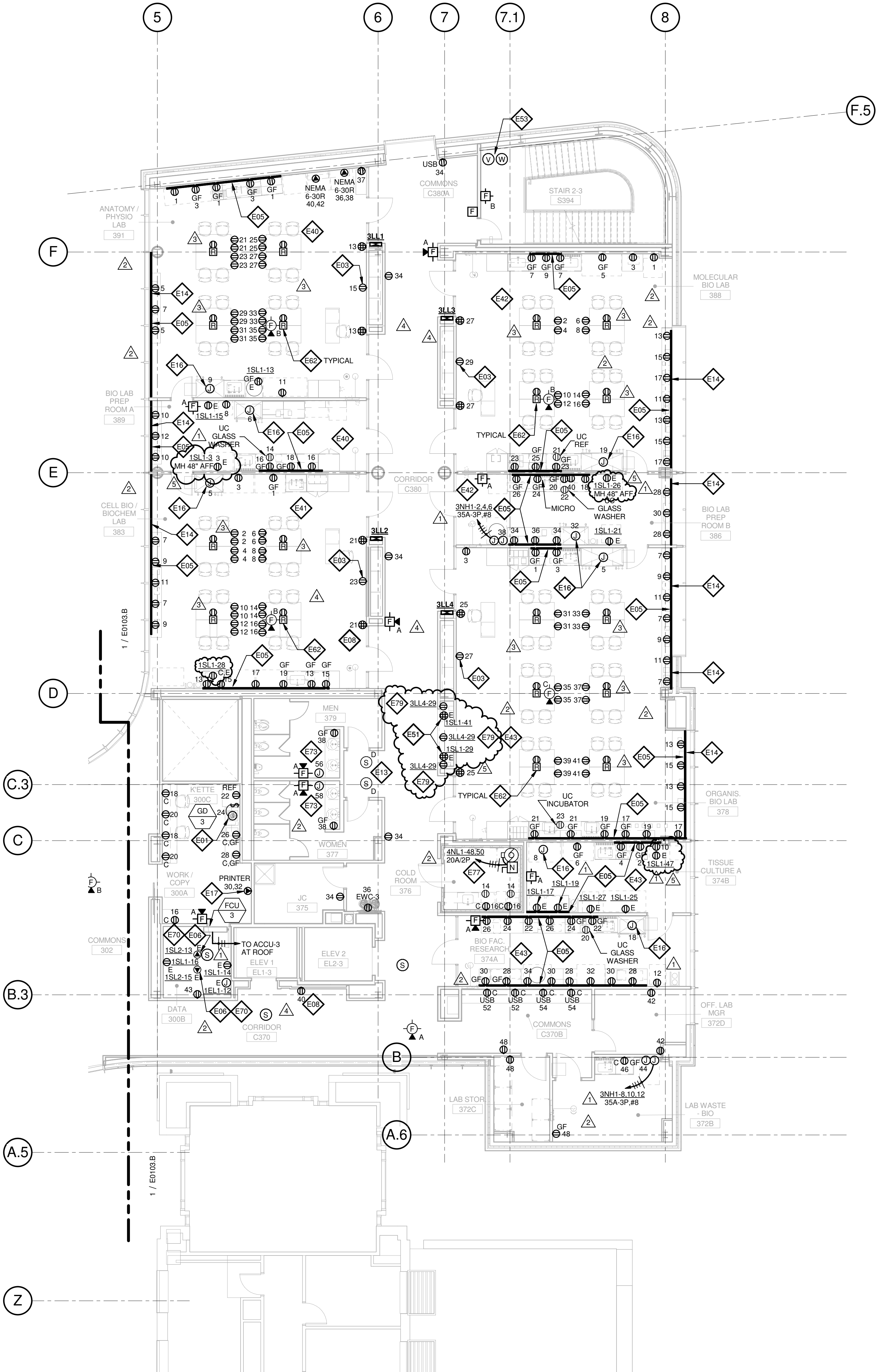


Drawing Title:

LEVEL 03 AREA A FLOOR PLAN - POWER AND AUXILIARY

Project No.: 04561.01 Checked by:

E0103.A



LEVEL 03 - AREA A - FLOOR PLAN - POWER AND AUXILIARY
1/8" = 1'-0"

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Webster University
Interdisciplinary Science
Building

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

William Tao & Associates, Inc.
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc.
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd, Suite 100
St. Louis, MO 63143
314.591.2229

Kuhmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave
St. Louis, MO 63130
314.725.6616

KWA Architects
Architecture
9721 Litzinger Road
St. Louis, MO 63124
314.962.2560

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

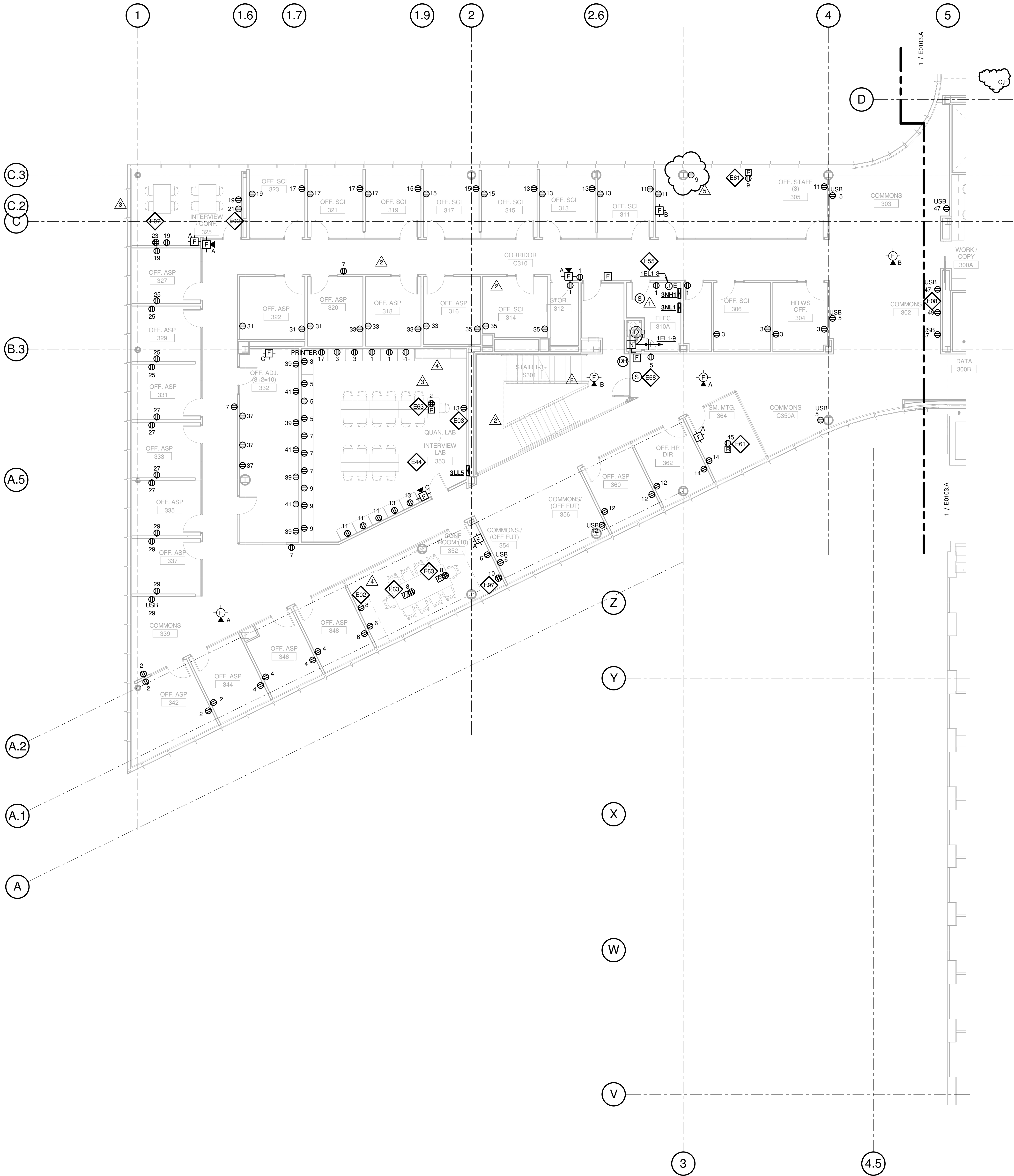
Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

GENERAL NOTES:

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION AND ORIENTATION OF DEVICES. WHERE LOCATIONS ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, COORDINATE LOCATION AND ORIENTATION OF DEVICES IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
- ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".
- CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.
- PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.
- WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND A/V.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 3NL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

- E01 REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E02 PROVIDE NEW RECEPTACLE FOR MONITOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.
- E03 PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E06 OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- E07 OUTLET FOR RACK MOUNTED A/V EQUIPMENT, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E08 OUTLET FOR DIGITAL SIGNAGE, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E17 PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- E44 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 3LL5.
- E55 PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- E61 PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (1) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E63 PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (1) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E68 PROVIDE FIRE ALARM CONTROL MODULE TO RELEASE POWER TO ELECTRICALLY HELD OPEN FIRE DOOR UPON ACTIVATION OF ASSOCIATED SMOKE DETECTOR.
- E70 PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.

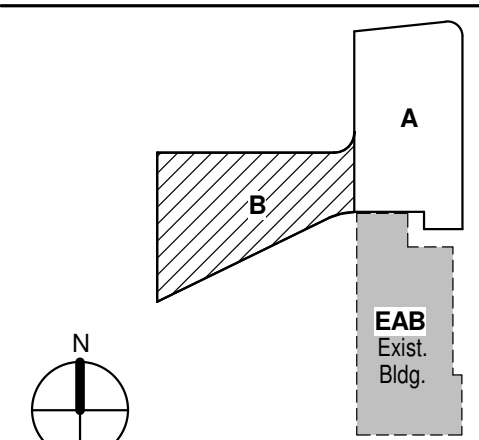


1 LEVEL 03 - AREA B - FLOOR PLAN - POWER AND AUXILLARY

1/8" = 1'-0"

5	ASI-036	30 NOV 2016
4	ASI-035	10 NOV 2016
3	ASI-030	14 OCT 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

No.	Description	Date
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KEY PLAN

Drawing Title:

LEVEL 03 AREA B FLOOR
PLAN - ELECTRICAL &
AUXILIARY

Project No.: 04561.01 Checked by:

E0103.B

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CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

William Tao & Associates, Inc.
MER/FP Engineer
7955 Manchester Road, Suite 125
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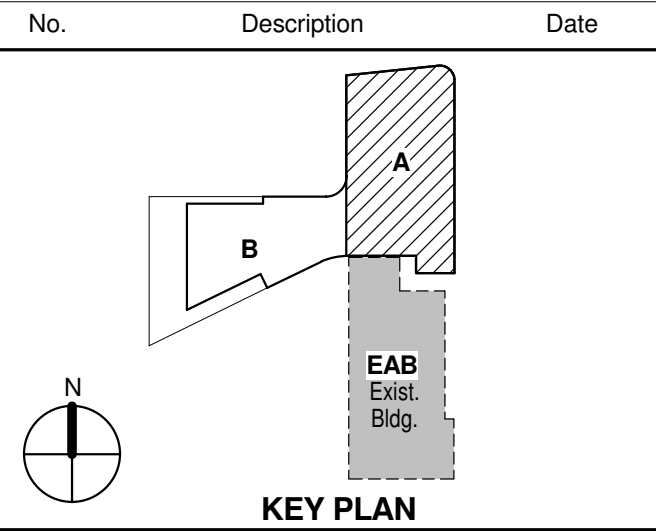
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Architecture
3721 Litzinger Road
St. Louis, MO 63124
314.962.2560

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

5	ASI-036	30 NOV 2016
4	ASI-035	10 NOV 2016
3	ASI-017	14 OCT 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



Drawing Title:

**LEVEL 04 AREA A FLOOR
PLAN - ELECTRICAL &
AUXILIARY**

Project No.: 04561.01 Checked by:

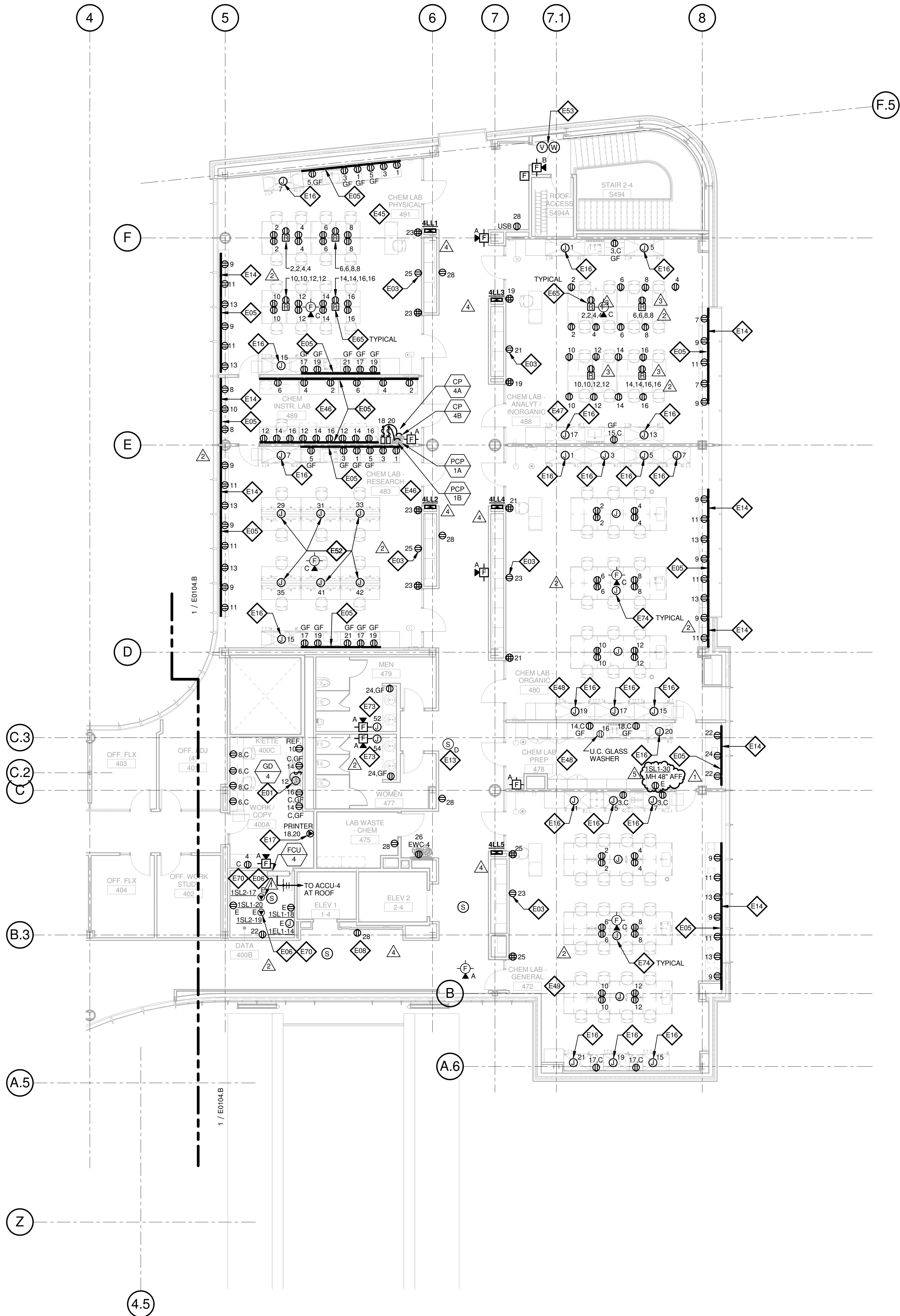
E0104.A

GENERAL NOTES:

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- PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.
- WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS. TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND AV.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 4NLL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

- E01** REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E03** PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E05** PROVIDE NEW TWO SECTION ALUMINUM RACEWAY, WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLTE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.
- E06** OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- E08** OUTLET FOR DIGITAL SIGNAGE, COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E13** PROVIDE A DUCT MOUNTED SMOKE DETECTOR(S) AT RETURN AIR GRILLE OF AHU-1 & AHU-2. BOTH AIR HANDLING UNITS SHALL SHUT DOWN UPON ACTIVATION OF THE DUCT MOUNTED SMOKE DETECTOR(S). PROVIDE REMOTE INDIATOR LIGHT(S) IN CEILING BELOW.
- E14** SURFACE RACEWAY AT EXTERIOR WINDOWS SHALL BE FED FROM BELOW OR FROM ADJACENT WALL OR COLUMN.
- E16** PROVIDE POWER AND FINAL CONNECTIONS TO FUME HOOD.
- E17** PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- E45** ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 4LL1.
- E46** ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 4LL2.
- E47** ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 4LL3.
- E48** ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 4LL4.
- E49** ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 4LL5.
- E52** PROVIDE POWER AND FINAL CONNECTIONS TO OVERHEAD SERVICE CARRIER. REFER TO LIGHTING PLANS FOR LIGHTING CIRCUITS. COORDINATE WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- E53** COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.
- E65** PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. FB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FPBT CBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (4) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E70** PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- E73** PROVIDE POWER AND FINAL CONNECTIONS FOR ELECTRIC HAND DRYER.
- E74** FEED FIXED FURNITURE FROM BELOW AND MAKE ALL FINAL CONNECTIONS TO RECEPTACLES.



1 LEVEL 04 - AREA A - FLOOR PLAN - POWER AND AUXILLARY

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5	ASI-036	30 NOV 2016
4	ASI-010	21 JULY 2016
3	ADDENDUM 2-4	24 MAY 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
- ISSUED FOR CONSTRUCTION (BP2)		01 MAR 2016
No.	Description	Date

Drawing Title:

PANEL SCHEDULES

Project No.: 04561.01

Checked by:

E0503

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Panel: BNH1

Location:
Supply From: US-1
Mounting: S
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	AHU-1	180 A	3	22160	22160	22160	3	180 A	AHU-2	2
3										4
5										6
7				2105	886	22160				8
9	DI-1	15 A	3		2105	886		15 A	FZP-1 & FZP-2	10
11										12
13				9418	0	9418		70 A	CP-2 (NON SIMULTANEOUS LOAD)	14
15	CP-1	70 A	3		9418	0				16
17						9418				18
19				5817	0			45 A	HRP-2 (NON SIMULTANEOUS LOAD)	20
21	HRP-1	45 A	3		5817	0				22
23										24
25				582	0			--	Space	26
27	VF-1	15 A	3		582	0		--	Space	28
29								--	Space	30
31	Space	--	--	0	0			--	Space	32
33	Space	--	--		0	0		--	Space	34
35	Space	--	--			0	0	--	Space	36
37	Mech Room - Central 078 (Lighting)	20 A	1	1216	0			--	Space	38
39	Space	20 A	1			0	0	--	Space	40
41	Space	20 A	1				0	--	Space	42
Total Load:				64344 VA	63128 VA	63128 VA				
Total Amps:				232 A	228 A	228 A				

Notes:

Panel: 1GH1

Location: MAIN ELECTRICAL 192
Supply From: MLO
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 600 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	ATS-LS	225 A	3	6431	76432			400 A	ATS-SB	2
3										4
5										6
7	Space	--	--	0	0			--	Space	8
9	Space	--	--			0	0	--	Space	10
11	Space	--	--				0	0	Space	12
13	Space	--	--	0	0			--	Space	14
15	Space	--	--			0	0	--	Space	16
17	Space	--	--				0	0	Space	18
19	Space	--	--	0	0			--	Space	20
21	Space	--	--			0	0	--	Space	22
23	Space	--	--				0	0	Space	24
25	Space	--	--	0	0			--	Space	26
27	Space	--	--			0	0	--	Space	28
29	Space	--	--				0	0	Space	30
Total Load:				82893 VA	80698 VA	80754 VA				
Total Amps:				299 A	291 A	292 A				

Notes:

Panel: 1NH1

Location: ELEC 110B
Supply From: US-1
Mounting: S
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB/SFL
Mains Rating: 175 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT		
1	Space	20 A	1	0	1769			1	20 A	Exterior Lighting	2	
3	Space	20 A	1		0	2728		1	20 A	Lighting Conf. Rooms, Lecture Hall	4	
5	Space	20 A	1			0	1658	1	20 A	Lighting Offices, Exam Rooms,	6	
7	Space	20 A	1	0	2103			1	20 A	Lighting Classrooms, Labs	8	
9	Space	20 A	1		0	2768		1	20 A	Lighting West Commons, Corridor	10	
11	Space	20 A	1			0	2300	1	20 A	Lighting Cadaver Lab, Restrooms, Work/Copy	12	
13	Space	20 A	1	0	1633			1	20 A	Lighting Utility Rooms, Kitchen	14	
15	Space	20 A	1		0	762		1	20 A	Lighting East Corridor	16	
17	Space	20 A	1				0	0	1	20 A	Space	18
19	Space	20 A	1	0	0				1	20 A	Space	20
21	Space	20 A	1		0	0		1	20 A	Space	22	
23	Space	20 A	1				0	0	1	20 A	Space	24
25	Space	20 A	1	0	0			1	20 A	Space	26	
27	Space	20 A	1		0	0		1	20 A	Space	28	
29	Space	20 A	1				0	0	1	20 A	Space	30
31	Space	--	--	0	0			--	--	Space	32	
33	Space	--	--		0	0		--	--	Space	34	
35	Space	--	--				0	0	--	Space	36	
37	Space	--	--	0	0			--	--	Space	38	
39	Space	--	--		0	0		--	--	Space	40	
41	Space	--	--				0	0	--	Space	42	
Total Load:				5504 VA	6258 VA	3958 VA						

Notes:

Panel: 1EL1

Location: MAIN ELECTRICAL 192
Supply From: T-1EL1
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	MECHANICAL ROOM 078 - BAS	20 A	1	360	100					1	20 A	MAIN ELECTRICAL 192 - FACP	2
3	110B, 210B, 310A, 410 - BAS	20 A	1			1060	180			1	20 A	DATA 100B - SECURITY EQUIPMENT	4
5	Elec 110B - Fire Door	15 A	1					1176	180	1	20 A	DATA 100B - SECURITY EQUIPMENT	6
7	Elec 210B - Fire Door	15 A	1	1176	180					1	20 A	DATA 200B - SECURITY EQUIPMENT	8
9	Elec 310A - Fire Door	15 A	1			1176	180			1	20 A	DATA 200B - SECURITY EQUIPMENT	10
11	Elec 410 - Fire Door	15 A	1					1176	180	1	20 A	DATA 300B - SECURITY EQUIPMENT	12
13	Spare	20 A	1	0	180					1	20 A	DATA 400B - SECURITY EQUIPMENT	14
15	Spare	20 A	1			0	0			1	20 A	Spare	16
17	Spare	20 A	1					0	0	1	20 A	Spare	18
19	Spare	20 A	1	0	0					1	20 A	Spare	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Space	--	--	0	0					--	--	Space	26
27	Space	--	--			0	0			--	--	Space	28
29	Space	--	--					0	0	--	--	Space	30
Total Load:				1996 VA		2596 VA		2712 VA					
Total Amps:				17 A		22 A		23 A					

Notes:

Panel: 1EH1

Location: MAIN ELECTRICAL 192
Supply From: ATS-LS
Mounting: S
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MCB
Mains Rating: 225 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	T-1EL1, 1EL1	45 A	3	1996	555					1	20 A	Exterior Site Lighting	2
3						2596	278			1	20 A	Mech Room - Central 078 (Lighting)	4
5	West Exterior Emerg. Lighting	20 A	1	456	1823			2712	1785	1	20 A	1st Floor West Emerg. Lighting	6
7	North Stair Lighting	20 A	1			532	1434			1	20 A	1st Floor East Emerg. Lighting	8
9	West Stair Lighting	20 A	1					532	2870	1	20 A	2nd Floor East Emerg. Lighting	10
11	Space	20 A	1	0	2987					1	20 A	2nd Floor West Emerg. Lighting	12
13	Space	20 A	1			0	3217			1	20 A	3rd Floor Emerg. Lighting	14
15	Space	20 A	1					0	0	1	20 A	4th Floor Emerg. Lighting	16
17	Space	20 A	1	0	0					1	20 A	Space	18
19	Space	20 A	1			0	0			1	20 A	Space	20
21	Space	20 A	1					0	0	1	20 A	Space	22
23	Space	20 A	1					0	0	1	20 A	Space	24
25	Space	20 A	1	0	0					1	20 A	Space	26
27	Space	20 A	1			0	0			1	20 A	Space	28
29	Space	20 A	1					0	0	1	20 A	Space	30
31	Space	--	--	0	0					--	--	Space	32
33	Space	--	--			0	0			--	--	Space	34
35	Space	--	--					0	0	--	--	Space	36
37	Space	--	--	0	0					--	--	Space	38
39	Space	--	--			0	0	0	0	--	--	Space	40
41	Space	--	--					0	0	--	--	Space	42
Total Load:				7818 VA		8057 VA		7900 VA					
Total Amps:				28 A		29 A		29 A					

Notes:

Panel: 1SL1

Location: MAIN ELECTRICAL 192
Supply From: T-1SL1
Mounting: S
Enclosure: Type 1

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

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 150 A
MCB Rating:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	Power Rm. 289A - Incinerator	20 A	1	192	180			1	20 A	MDF Room 195 - Wall	2
3	Power Rm. 389A - Deli Cabinet	20 A	1		1080	180		1	20 A	MDF Room 195 - Wall	4
5	Power Rm. 289A - (-20) Freezer	20 A	1			1225	180	1	20 A	Data 100B - Wall	6
7	Power Rm. 289A - Liquid Nitrogen Dewar	20 A	1	180	180			1	20 A	Data 100B - Wall	8
9	Power Rm. 289B - Liquid Nitrgen Dewar	20 A	1		180	180		1	20 A	Data 200B - Wall	10
11	Power Rm. 291 - Freezer	20 A	1			600	180	1	20 A	Data 300B - Wall	12
13	Power Rm. 391 - Refrigerator	20 A	1	492	180			1	20 A	Data 300B - Wall	14
15	Power Rm. 389 - Freezer	20 A	1		180	180		1	20 A	Data 300B - Wall	16
17	Power Rm. 374B - Incubator	20 A	1			600	180	1	20 A	Data 400B - Wall	18
19	Power Rm. 374B - Incubator	20 A	1	432	180			1	20 A	Data 400B - Wall	20
21	Power Rm. 386 - Freezer	20 A	1		600	1000		1	20 A	Power Rm. 269A - (-20) Freezer	22
23	Power Rm. 289B - Deli Refrigerator	20 A	1			492	492	1	20 A	Power Rm. 283 - (-20) Freezer	24
25	Power Rm. 374B - (-80) Freezer	20 A	1	1920	960			1	20 A	Power Rm. 386 - Chromatography Cab	26
27	Power Rm. 374B - Freezer	20 A	1		984	600		1	20 A	Power Rm. 383 - Incubator	28
29	Power Rm. 378 - Fish Tank	20 A	1			720	492	1	20 A	Power Rm. 478 - Deli Refrigerator	30
31	Elevator Control Room 176	20 A	1	180	1176			1	20 A	Elevator 2 Pk - ESP-2	32
33	Elevator Control Room 176	20 A	1		180	1176		1	20 A	Elevator 1 Pk - ESP-2	34
35	Mechanical Room Central 078 - FZP-3 & 4	20 A	1			1056	1176	1	20 A	MECHANICAL ROOM 078 - SP-1	36
37	Mechanical Room 178 - B-1	20 A	1	1224	600			1	20 A	Power Rm. 292 - UC Refrigerator	38
39	Mechanical Room 179 - B-2	20 A	1	1224	492			1	20 A	Power Rm. 283 - Refrigerator	40
41	Power Rm. 378 - Fish Tank	20 A	1			720	0	1	20 A	Spare	42
43	Power Rm. 291 - Deli Refrigerator	20 A	1	600	0			1	20 A	Spare	44
45	Power Rm. 289B - Incubator CO2	20 A	1		180	0		1	20 A	Spare	46
47	Power Rm. 374B - Refrigerator	20 A	1			600	0	1	20 A	Spare	48
49	Power Rm. 235 - Floorbox - M\$eq System	20 A	1	580	4000			3	150 A	1SL2 (UPS)	50
51	Spare	20 A	1		0	2500					52
53	Spare	20 A	1			0	2500				54
Total Load:				13256 VA	10916 VA	11213 VA					
Total Amps:				111 A	91 A	94 A					

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1 LEVEL 03 - AREA B
1/8" = 1'-0"

GENERAL NOTES:

THIS SHEET ONLY

1. DATA OUTLETS IN OFFICE SHALL BE LOCATED ADJACENT TO AND AT THE SAME MOUNTING HEIGHT AS THE POWER RECEPTACLES. COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR.
2. TELECOMMUNICATION CABLING ON THIS SHEET SHALL BE RUN TO LEVEL 003 DATA ROOM 003B.

KEYED NOTES:

THIS SHEET ONLY

1. CABINET MOUNTED AV EQUIPMENT (OFVI)
2. CONFIRM EXACT LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
3. SEE ELECTRICAL DRAWINGS FOR FLOOR BOX INFORMATION.
4. PROVIDE A 4 11/16" X 2 1/8" DEEP WALL MOUNTED BOX FOR PTZ CAMERA WITH A 1" CONDUIT WITH PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH PTZ CAMERA INSTALLER.
5. PROVIDE (2) 1" CONDUITS IN SLAB FOR AV AND DATA CABLES, SUB-UP INTO ACCESSIBLE CEILING SPACE.
6. MOUNT AT RECEPTACLE HEIGHT



Webster University
Interdisciplinary Science
Building

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

William Tao & Associates, Inc.
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc.
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd. Suite 100
St. Louis, MO 63143
314.991.2229

Kuhmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave.
St. Louis, MO 63130
314.725.6616

KWA Architects
Architecture
9721 Litzinger Road
St. Louis, MO 63124
314.962.2560

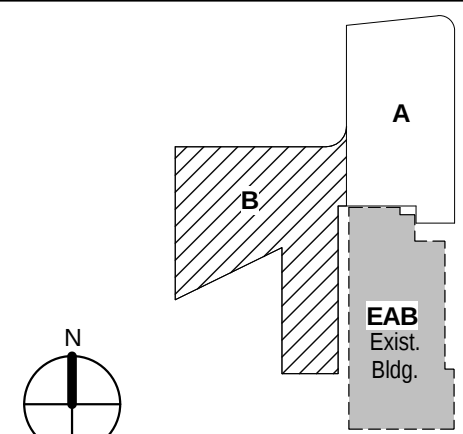
Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Planning & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

4	ASI-036	30 NOV 2016
3	ASI-035	10 NOV 2016
2	ASI-030	14 OCT 2016
1	ADDENDUM 2-4	24 MAY 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016

No.	Description	Date
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KEY PLAN

Drawing Title:

**LEVEL 03 FLOOR PLAN -
AREA B**

Project No.: 04561.01 Checked by:

T0103.B