



PARIC CORPORATION
77 Westport Plaza Suite 250
St. Louis, MO 63146
TEL: 636-561-9500
FAX: 636-561-9501

REQUEST FOR INFORMATION	DATE: December 16, 2016	NO.: RFI-383
--------------------------------	--------------------------------	---------------------

To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Devin Gates

Project Name: 15051-Webster University Interdisciplinary Science Building	Project No.: 15051
---	--------------------

Subject: Follow up clarifications to RFI 349

Response Required By: December 23, 2016

Drawing / Spec Reference:

Information Requested:

Electrical drawing E0100 indicates power and circuitry for SP1, SP2, SP3 and ESP2. There is no power and circuitry indicated for the pump controllers. Please advise how to power the controllers, where the power feed should be located, and what circuit to utilize and panel designation for SP1, SP2, SP3, ESP-2 and ESP-1.

See attached diagrams and drawings E0100, E0101.A, and E0503 for updates.

SP1 & SP2: Provide one 20A/3P/4W feeder and associated 20A/3P circuit breaker. Delete separate feeder for SP2 and associated 15A/3P CB. Extend power from controller to pumps.

SP3: Connect hard wired water alarm panel to same circuit serving pump.

ESP1 and ESP2: Provide duplex receptacle in-lieu of single boss receptacle. Plug water alarm panel into same duplex receptacle as pump.

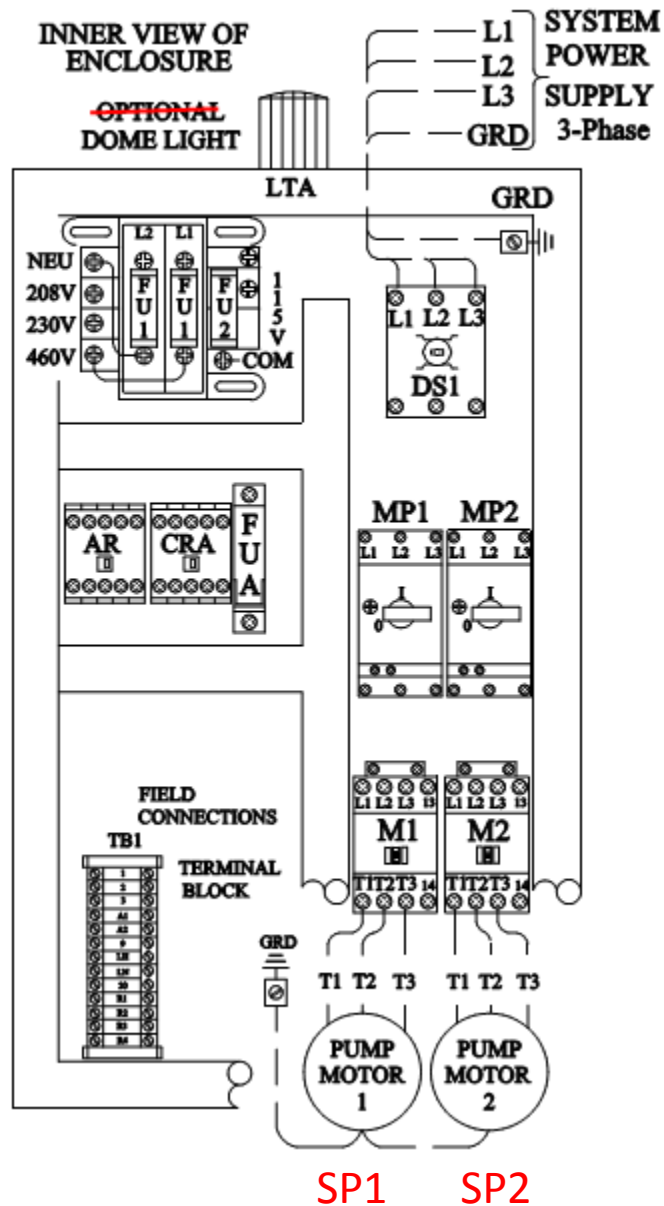
ARCHITECT'S RESPONSE:

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

Answered By: Mark de la Fuente - WTA

Date: 01-12-2017

SUMP PUMP SP1 & SP2

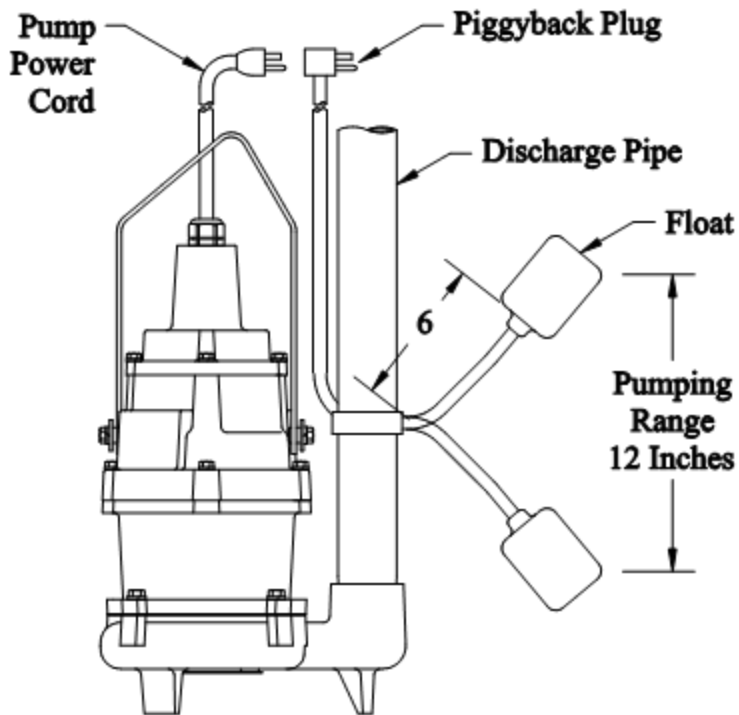


1SH1-26,28,30

ONE FEEDER TO ALARM PANEL WILL
SERVE BOTH PUMPS.

EXTEND POWER FROM DUPLEX
CONTROLLER TO PUMPS.

SUMP PUMP SP-3

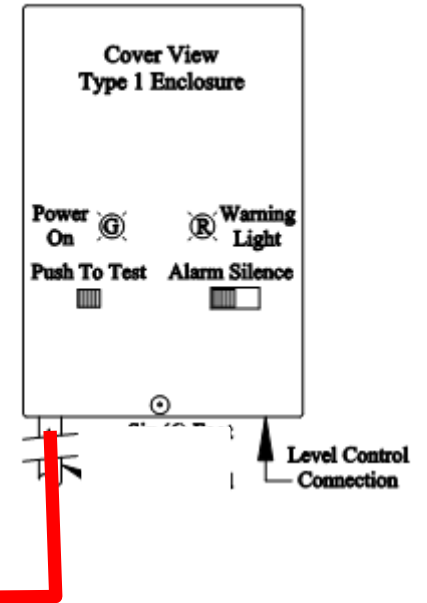


SP-3



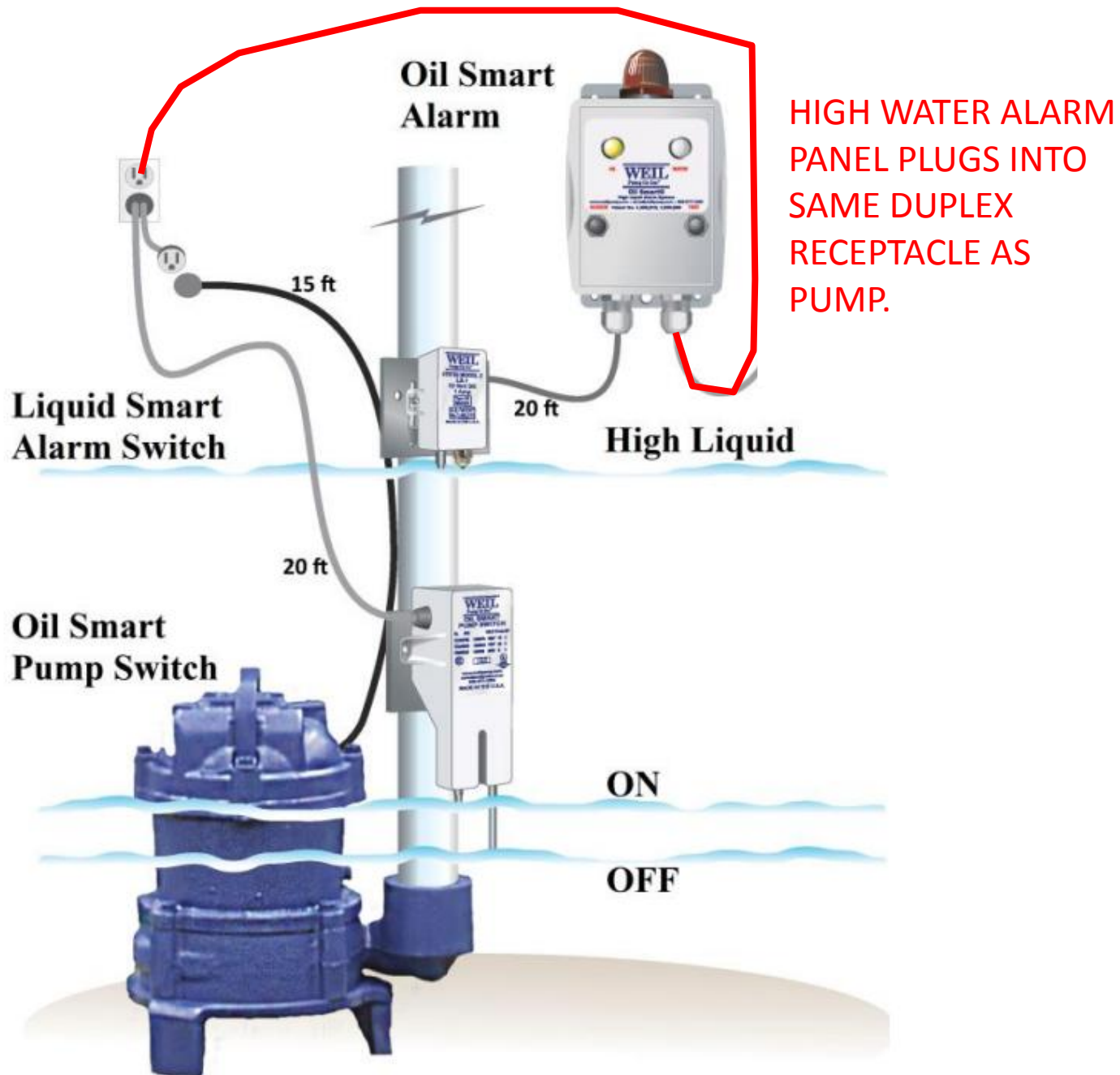
1SL1-36

8341 PANEL



WATER ALARM PANEL
IS HARD WIRED TO
SAME CIRCUIT
SERVING PUMP.

SUMP PUMP ESP1 & 2



THE SEAL(S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.



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

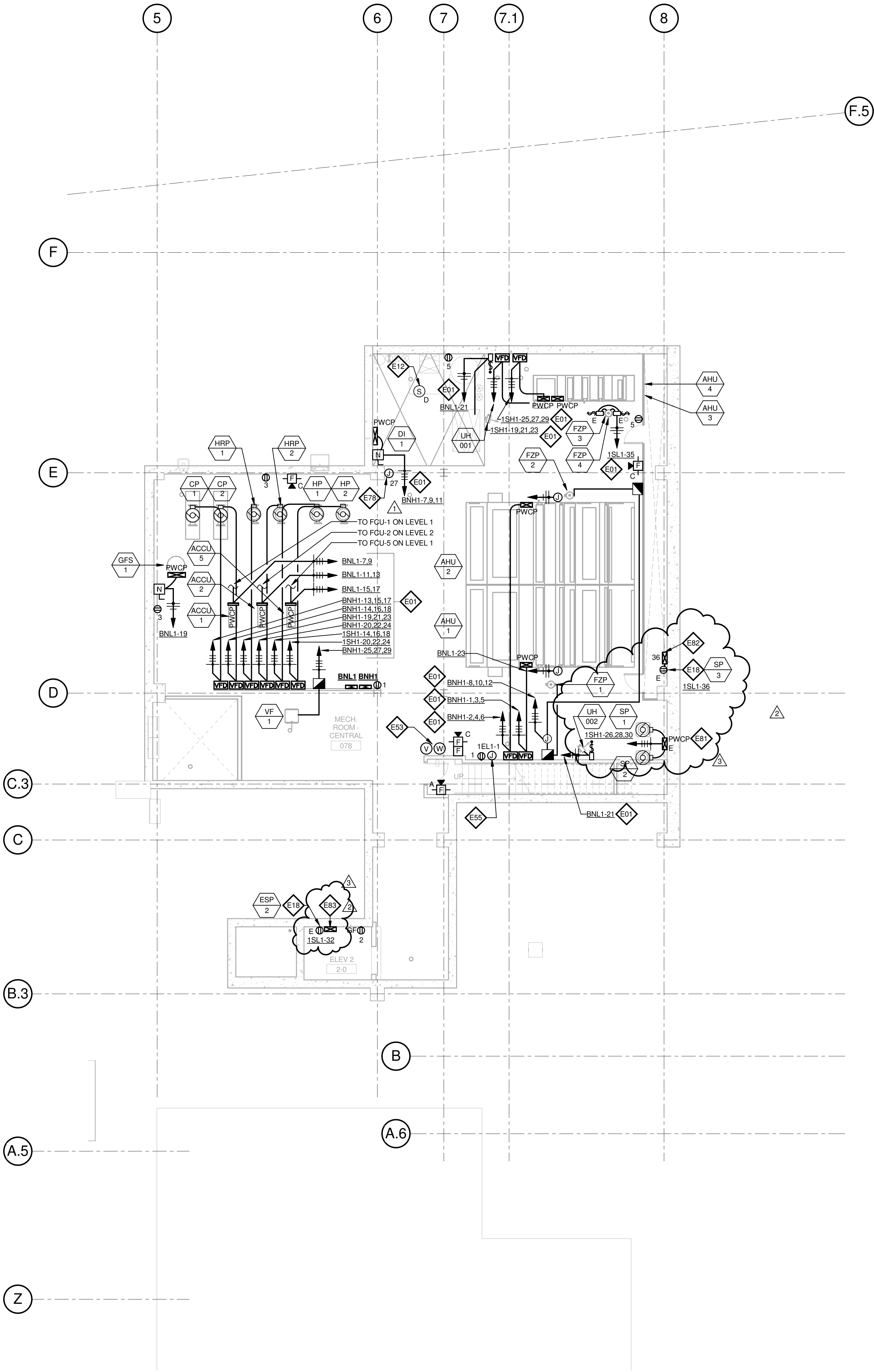
Webb Engineering Services, Inc.
Plumbing & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

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 BNL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

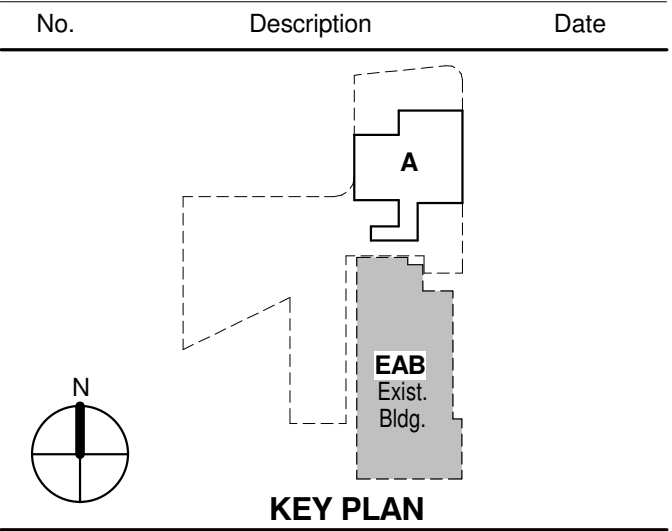
- E01** REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E12** PROVIDE A DUCT MOUNTED SMOKE DETECTOR IN THE COMBINED SUPPLY DUCT OF AHU-3 & AHU-4. BOTH AIR HANDLING UNITS SHALL SHUT DOWN UPON ACTIVATION OF THE DUCT MOUNTED SMOKE DETECTOR.
- E18** PROVIDE POWER AND FINAL CONNECTION TO ELEVATOR SUMP PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- E53** COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.
- E55** PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- E78** PROVIDE POWER TO ELECTRONIC TRAP PRIMER FOR A COMPLETE INSTALLATION, REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.
- E81** PROVIDE 20A, 3-PHASE, 4-WIRE FEEDER TO DUPLEX PUMP CONTROLLER. CONNECT SP1 AND SP2 SUMP PUMPS TO DUPLEX CONTROLLER.
- E82** CONNECT WATER ALARM PANEL TO THE SAME CIRCUIT SERVING SUMP PUMP.
- E83** CONNECT WATER ALARM PANEL TO SAME RECEPTACLE SERVING SUMP PUMP.



1 LEVEL 00 - AREA A - ELECTRICAL POWER PLAN

1/8" = 1'-0"

3	RFI-383	12 JAN 2016
2	ASH-010	21 JULY 2016
1	ADDENDUM 2-4	24 MAY 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



Drawing Title:

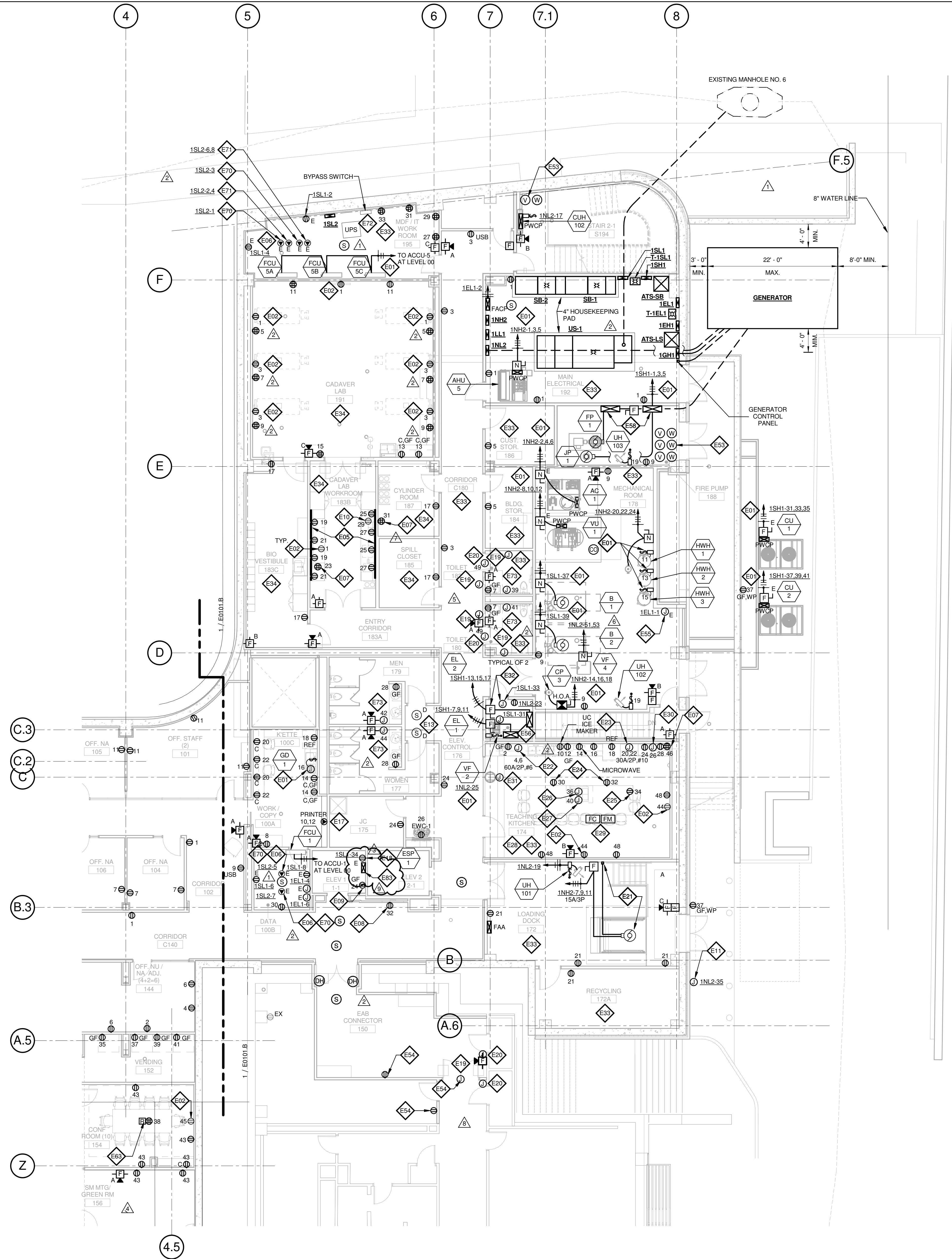
LEVEL 00 FLOOR PLAN -
ELECTRICAL

Project No.: 04561.01 Checked by:

E0100

© Cannon Design 2015

1 LEVEL 01 - AREA A - FLOOR PLAN - POWER AND AUXILIARY
1/8" = 1'-0"



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.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 1N1L1 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.
- 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.
- 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.
- E09 MOUNT RECEPTACLE IN ELEVATOR PIT. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR.
- E10 UNDERCOUNTER REFRIGERATOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- E11 PROVIDE POWER AND FINAL CONNECTION TO WALL MOUNTED BLUE LIGHT EMERGENCY INTERCOM STATION.
- 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.
- E17 PROVIDE NEMA 6-30R, 30A-208V RECEPTACLE FOR PRINTER. CONTRACTOR SHALL VERIFY PRINTER PLUG TYPE WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- E18 PROVIDE POWER AND FINAL CONNECTION TO ELEVATOR SUMP PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR 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.
- E21 PROVIDE POWER AND FINAL CONNECTION TO DOCK LEVELER AND CONTROLS PER MANUFACTURERS WRITTEN INSTRUCTIONS. COORDINATE CONTROL AND DISCONNECT LOCATION WITH DOCK LEVELER INSTALLER PRIOR TO INSTALLATION.
- E22 PROVIDE POWER AND FINAL CONNECTION TO DISH WASHER. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- E23 PROVIDE POWER AND FINAL CONNECTION TO DOUBLE OVEN. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- E24 RECEPTACLE MOUNTED IN COUNTER APRON. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION.
- E25 RECEPTACLE MOUNTED INSIDE CABINET FOR COMPUTER. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION.
- E26 PROVIDE POWER AND FINAL CONNECTION TO DROP IN COOK TOP. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- E27 PROVIDE POWER AND FINAL CONNECTION TO ISLAND HOOD. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- E28 REFER TO KITCHEN EQUIPMENT DRAWINGS FOR MOUNTING HEIGHTS OF ALL ELECTRICAL DEVICES IN THIS ROOM AND FOR POWER REQUIREMENTS PRIOR TO ROUGH-IN.
- E29 PROVIDE FIRE ALARM MONITOR MODULE AND CONTROL MODULE CONNECTED TO FIRE ALARM SYSTEM AT HOOD. PROVIDE WIRING BETWEEN HOOD AND FIRE SUPPRESSION SYSTEM. REFER TO KITCHEN HOOD EXTINGUISHING SYSTEM WIRING DIAGRAM, ON SHEET E402.
- E30 PROVIDE POWER FOR HOOD FIRE PROTECTION SYSTEM. INTERCONNECT EXHAUST FANS AND MAKE-UP AIR FANS TO MICRO SWITCH IN FIRE PROTECTION CABINET. REFER TO KITCHEN HOOD EXTINGUISHING SYSTEM WIRING DIAGRAM.
- E31 PROVIDE J-BOX AND CONDUIT IN WALL FOR REMOTE MANUAL PULL STATION. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- E32 PROVIDE POWER MODULE SWITCH FOR ELEVATOR AND A JUNCTION BOX WITH A 120V/20A CIRCUIT FOR CONNECTION OF ELEVATOR CONTROLS. PROVIDE ALL FINAL CONNECTIONS TO ELEVATOR CONTROLLER AND ELEVATOR CAB PER MANUFACTURERS WRITTEN INSTRUCTIONS. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- E33 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1N1L2.
- E34 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1L1L1.
- E53 COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.
- E54 EXTEND CIRCUIT FROM EXISTING RECEPTACLES SERVING THIS AREA.
- E55 PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- E56 SEE ELEVATOR DETAIL ON SHEET E402 FOR ADDITIONAL POWER & FIRE ALARM REQUIREMENTS.
- E58 FIRE PUMP CONTROLLER AND JOCKEY PUMP CONTROLLER SEE ONE LINE DIAGRAM FOR FEEDER INFORMATION.
- E63 PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB45-FC WITH A BRASS FLANGED COVER CAT. NO. FPB45-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 - AV (SEE AV DRAWINGS FOR DEVICE TYPE). 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.
- E71 PROVIDE NEMA L6-20R, 30A-208V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- E72 UPS AND EXTERNAL BYPASS SWITCH FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. REFER TO TECHNOLOGY DRAWINGS AND ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- E73 PROVIDE POWER AND FINAL CONNECTION FOR ELECTRIC HAND DRYER.
- E83 CONNECT WATER ALARM PANEL TO SAME RECEPTACLE SERVING SUMP PUMP.

THE SEAL(S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.



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

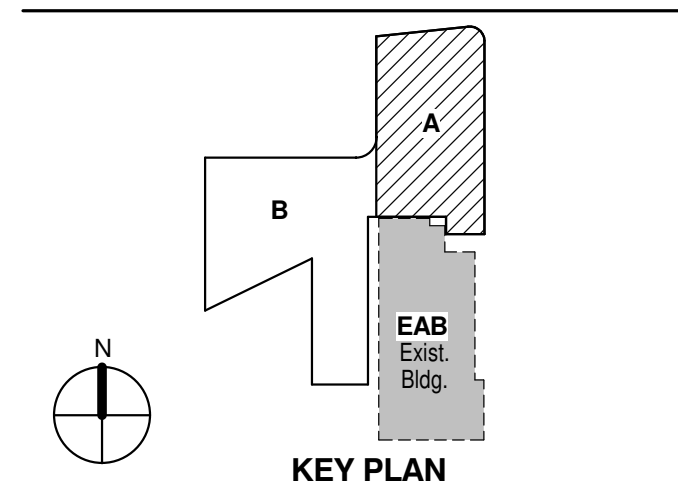
KWA Architects
Architecture
3721 Litzinger Road
St. Louis, MO 63124
314.962.2560

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
314.568.0690

9	RFI-383	12 JAN 2016
8	ASH-044	10 JAN 2017
7	ASH-035	10 NOV 2015
6	ASH-034	04 NOV 2016
5	ASH-031 - Not accepted by owner	26 OCT 2016
4	RFI-329	20 OCT 2016
3	ASH-010	21 JULY 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



KEY PLAN

LEVEL 01 AREA A FLOOR PLAN - ELECTRICAL & AUXILIARY

Project No.: 04561.01 Checked by:

E0101.A

THE SEAL(S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.



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.
ME/PE/PP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-864-7600

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

Kuhnmann 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
314.558.0600

6	RFI-383	12 JAN 2016
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

© Cannon Design 2015

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	22160	3	180 A	AHU-2
3				2105	886					
5					2105	886				
7	DI-1	15 A	3					3	15 A	FZP-1 & FZP-2
9				9418	0	9418	0			
11						2105	886			
13	CP-1	70 A	3					3	70 A	CP-2 (NON SIMULTANEOUS LOAD)
15						9418	0			
17										
19	HRP-1	45 A	3	5817	0			3	45 A	HRP-2 (NON SIMULTANEOUS LOAD)
21					5817	0				
23						5817	0			
25				582	0			--	--	Space
27	VF-1	15 A	3		582	0		--	--	Space
29								--	--	Space
31	Space	--	--	0	0			--	--	Space
33	Space	--	--		0	0		--	--	Space
35	Space	--	--			0	0	--	--	Space
37	Mech Room - Central 078 (Lighting)	20 A	1	1216	0			--	--	Space
39	Space	20 A	1			0	0	--	--	Space
41	Space	20 A	1				0	0	--	Space
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:
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	76434			3	400 A	ATS-SB
3					6604	73916				
5				0	0			--	--	Space
7	Space	--	--			0	0	--	--	Space
9	Space	--	--			0	0	--	--	Space
11	Space	--	--			0	0	--	--	Space
13	Space	--	--	0	0			--	--	Space
15	Space	--	--		0	0		--	--	Space
17	Space	--	--			0	0	--	--	Space
19	Space	--	--	0	0			--	--	Space
21	Space	--	--		0	0		--	--	Space
23	Space	--	--			0	0	--	--	Space
25	Space	--	--	0	0			--	--	Space
27	Space	--	--		0	0		--	--	Space
29	Space	--	--			0	0	--	--	Space
Total Load:				82865 VA	80520 VA	80756 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	1689			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	776		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:				5424 VA	6272 VA	3958 VA						
Total Amps:				20 A	23 A	14 A						

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
3	110B, 210B, 310A, 410 - BAS	20 A	1		1060	180		1	20 A	DATA 100B - SECURITY EQUIPMENT
5	Elec 110B - Fire Door	15 A	1			1176	180	1	20 A	DATA 100B - SECURITY EQUIPMENT
7	Elec 210B - Fire Door	15 A	1	1176	180			1	20 A	DATA 200B - SECURITY EQUIPMENT
9	Elec 310A - Fire Door	15 A	1		1176	180		1	20 A	DATA 200B - SECURITY EQUIPMENT
11	Elec 410 - Fire Door	15 A	1			1176	180	1	20 A	DATA 300B - SECURITY EQUIPMENT
13	Space	20 A	1	0	180			1	20 A	DATA 400B - SECURITY EQUIPMENT
15	Space	20 A	1		0	0		1	20 A	Space
17	Space	20 A	1			0	0	1	20 A	Space
19	Space	20 A	1	0	0			1	20 A	Space
21	Space	20 A	1		0	0		1	20 A	Space
23	Space	20 A	1			0	0	1	20 A	Space
25	Space	--	--	0	0			--	--	Space
27	Space	--	--		0	0		--	--	Space
29	Space	--	--			0	0	--	--	Space
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
3					2596	278		1	20 A	Mech Room - Central 078 (Lighting)
5	West Exterior Emerg. Lighting	20 A	1	456	1823			1	20 A	1st Floor West Emerg. Lighting
7	North Stair Lighting	20 A	1		532	1434		1	20 A	1st Floor East Emerg. Lighting
9	West Stair Lighting	20 A	1			532	2870	1	20 A	2nd Floor West Emerg. Lighting
11	Space	20 A	1	0	2987			1	20 A	2nd Floor East Emerg. Lighting
13	Space	20 A	1		0	3217		1	20 A	3rd Floor Emerg. Lighting
15	Space	20 A	1			0	0	1	20 A	4th Floor Emerg. Lighting
17	Space	20 A	1				0	0	1	Space
19	Space	20 A	1	0	0			1	20 A	Space
21	Space	20 A	1		0	0		1	20 A	Space
23	Space	20 A	1			0	0	1	20 A	Space
25	Space	20 A	1	0	0			1	20 A	Space
27	Space	20 A	1		0	0		1	20 A	Space
29	Space	20 A	1			0	0	1	20 A	Space
31	Space	--	--	0	0			--	--	Space
33	Space	--	--		0	0		--	--	Space
35	Space	--	--			0	0	--	--	Space
37	Space	--	--	0	0			--	--	Space
39	Space	--	--		0	0		--	--	Space
41	Space	--	--			0	0	--	--	Space
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
3	Power Rm. 389A - Deli Cabinet	20 A	1		1080	180		1	20 A	MDF Room 195 - Wall
5	Power Rm. 289A - (-20) Freezer	20 A	1			1225	180	1	20 A	Data 100B - Wall
7	Power Rm. 289A - Liquid Nitrogen Dewar	20 A	1	180	180			1	20 A	Data 100B - Wall
9	Power Rm. 289B - Liquid Nitrogen Dewar	20 A	1		180	180		1	20 A	Data 200B - Wall
11	Power Rm. 291 - Freezer	20 A	1			600	180	1	20 A	Data 200B - Wall
13	Power Rm. 391 - Refrigerator	20 A	1	492	180			1	20 A	Data 300B - Wall
15	Power Rm. 389 - Freezer	20 A	1		180	180		1	20 A	Data 300B - Wall
17	Power Rm. 374B - Incubator	20 A	1			600	180	1	20 A	Data 400B - Wall
19	Power Rm. 374B - Incubator	20 A	1	432	180			1	20 A	Data 400B - Wall
21	Power Rm. 388 - Freezer	20 A	1			600	1000	1	20 A	Power Rm. 289A