

SWITCHBOARD SCHEDULE										Existing
Switchboard: MS										
LOCATION:		VOLTS: 480Y/277, 3ø, 4W		AIC RATING: 10,000 A						
SUPPLY FROM:		PHASE: 3		MAINS TYPE: MLO						
MOUNTING:		WIRES: 4		MAINS RATING: 1,000 A						
ENCLOSURE: NEMA 1				DOOR-IN-DOOR						
BUSSING:				200% NEUTRAL SPD:						
CKT	CIRCUIT DESCRIPTION		# OF POLES	AMP RATING	A	B	C	REMARKS		
1	EXTERIOR LIGHTS		2	20 A	0 VA	0 VA				
2	FIRE ALARM		2	20 A	0 VA	0 VA				
3	BLANK ONLY		3	--	--	--	--			
4	TRANSFORMER T-M		3	100 A	0 VA	0 VA	0 VA			
5	TRANSFORMER T-AC		3	500 A	111,362 VA	109,469 VA	109,044 VA			
6	BLANK ONLY		3	--	--	--	--			
7	PANEL 'LA'		3	100 A	0 VA	0 VA	0 VA			
8	PANEL 'LB'		3	100 A	0 VA	0 VA	0 VA			
9	PANEL 'LC'		3	100 A	0 VA	0 VA	0 VA			
10	PANEL 'LD'		3	100 A	0 VA	0 VA	0 VA			
11	PANEL 'LBY'		3	100 A	0 VA	0 VA	0 VA			
12	PANEL 'LW'		3	70 A	0 VA	0 VA	0 VA			
13	TRANSFORMER 'PW'		2	150 A	0 VA	0 VA				
14	PANEL 'DPA'		3	150 A	0 VA	0 VA	0 VA			
15	CIR PUMP		3	20 A	0 VA	0 VA	0 VA			
16	PANEL 'LG'		3	70 A	0 VA	0 VA	0 VA			
17	PANEL 'LR'		3	100 A	0 VA	0 VA	0 VA			
18	RT UNIT		3	60 A	0 VA	0 VA	0 VA			
TOTAL LOAD (VA):					111,362 VA	109,469 VA	109,044 VA			
TOTAL LOAD (AMPS):					402.3 A	395.4 A	393.7 A			
TOTAL CONN. LOAD:					329,869 VA					
TOTAL CURRENT (AVG):					396.8 A					
NOTES:										

PANELBOARD SCHEDULE															New Construction			
PANEL: ACB				TYPE: NEMA 1		VOLTS: 208Y/120, 3ø, 4W				PHASE: 3		WIRES: 4						
MOUNTING: SURFACE				LOCATION:				MAINS: MCB										
BUSSING: ALUMINUM				FED FROM: AC				No. SURFEED LUGS										
				AMP: 300 A				DOOR-IN-DOOR										
								ISO GROUND										
								200% NEUTRAL										
								SPD										
BRANCH BREAKERS																		
ITEM	AMPS	TYPE	LC	P	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	WIRE SIZE	P	LC	TYPE	AMPS	ITEM
161 DRAFTING ROOM AC-1 / CU-1	20 A	HV	2	1	1,348					1,914			2	2	HV		30 A	142 FOOD LAB AC-4 / CU-4
				3			1,348				1,914							
158 V MUSIC ROOM AC-4 / CU-4	30 A	HV	2	5	7	1,914				1,914			1,914	6	2	HV	30 A	174 CLASSROOM AC-3 / CU-3
				7							1,914			8				
153 INST. MUSIC ROOM AC-4 / CU-4	30 A	HV	2	9			1,914				1,914			10	2	HV	30 A	173 CLASSROOM AC-3 / CU-3
				11				1,914				1,914		12				
153 INST. MUSIC ROOM AC-3 / CU-3	30 A	HV	2	13	15	1,914				1,914			14	2	HV	30 A	172 CLASSROOM AC-3 / CU-3	
				15			1,914				1,914			16				
155 OFFICE ROOM AC-1 / CU-1	20 A	HV	2	17				1,348			1,348			18	2	HV	20 A	171 CLASSROOM AC-2 / CU-2
				19	1,348					1,348			20					
158 V MUSIC ROOM AC-3 / CU-3	30 A	HV	2	21			1,914				1,914			22	2	HV	30 A	168 ARTS AC-1 / CU-4
				23				1,914				1,914		24				
159 OFFICE ROOM AC-1 / CU-1	20 A	HV	2	25	1,348					1,348			26	2	HV	20 A	169 AC-1 / CU-1	
				27		1,348					1,348		28					
CLASSROOM 146 AC-4 / CU-4	30 A	HV	2	29			1,914					1,914	30	2	HV	30 A	CLASSROOM AC-4 / CU-4	
				31	1,914					1,914			32					
CLASSROOM 145 AC-4 / CU-4	30 A	HV	2	33			1,914				1,914		34	2	HV	30 A	CLASSROOM AC-4 / CU-4	
				35				1,914				1,914	36					
CLASSROOM 144 AC-5 / CU-5	45 A	HV	2	37	2,912		2,912			1,348			38	2	HV	20 A	WORKROOM AC-1 / CU-1	
				39							1,348		40					
				41				2,912				1,914	42	2	HV	30 A	141 HOME LIVING AC-4 / CU-4	
CLASSROOM AC-5 / CU-5	45 A	HV	2	43	2,912					1,914			44					
				45		0					1,620		46	1	20 A	ROOF TOP RECEPTACLES		
SPARE	20 A	--	2	47			0					0	48	1	20 A	SPARE		
						PHASE A		PHASE B		PHASE C								
FEED THRU LOAD						26,220 VA		26,993 VA		26,657 VA		TOTAL (VA)		CONNECTED LOAD TOTAL				
Ø VA						243.9 A		225.4 A		222.1 A		AMPS /-		82,864 VA				
AC RATING																10,000 A	AMPS RMS ISYM	
Load Classification																		
Connected Load					Demand Factor					Estimated Demand					Panel Totals			
HVAC 41,403 VA					100.00%					41,403 VA					Total Est. Demand: 82,864 VA			
Receptacles - General 1,620 VA					100.00%					1,620 VA					Total Conn. Load: 82,864 VA			
															Total Est. Demand: 230 A			
															Total Conn. Current: 230 A			
															Total Est. Demand Current: 230 A			

- SINGLE LINE SHEET NOTES
1. OVERCURRENT DEVICES OF THE ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.

2. CONDUCTOR LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE FOR FAULT CURRENT CALCULATIONS ONLY. ACTUAL LENGTHS SHALL BE DETERMINED BY FIELD CONDITIONS AND ACTUAL ROUTING OF FEEDERS.

3. REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS, WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT SHOWN ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE PROVIDED.

4. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

5. REFER TO THE MOTOR AND SPECIAL CONNECTION SCHEDULE FOR ALL FEEDERS DESIGNATED "M".

6. GROUNDING ELECTRODE CONDUCTOR SIZES ARE NOT INDICATED ON THE SINGLE LINE DIAGRAM. REFER TO THE GROUNDING RISER DIAGRAM FOR CONDUCTOR CONNECTIONS AND SIZES.

7. ALL NEW SWITCHGEAR AND PANELBOARDS SHALL MATCH THE EXISTING MS AC RATINGS.

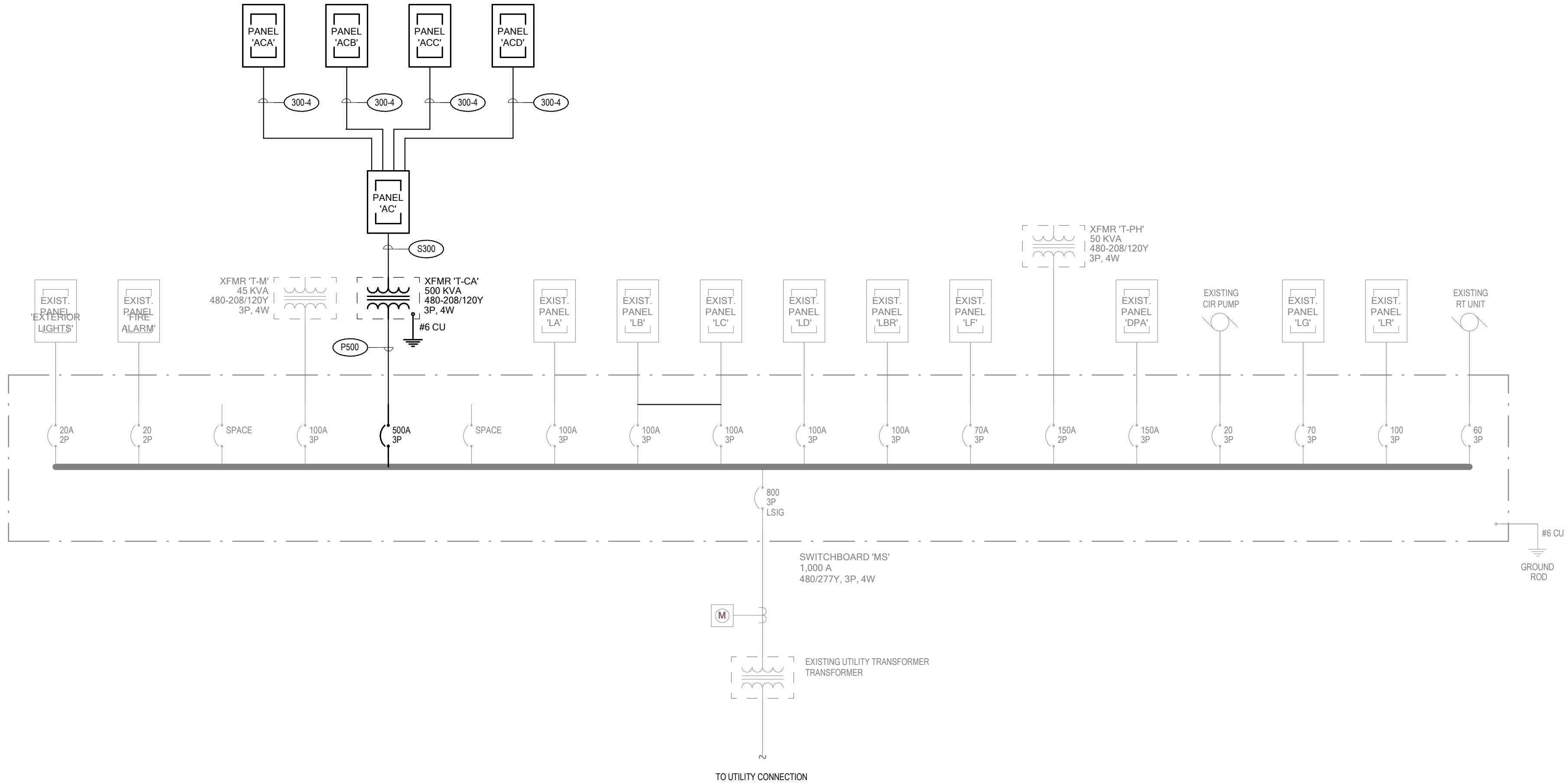
ELECTRICAL ONE-LINE SYMBOL DIAGRAM			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GENERATOR		POWER PANEL
			TRANSFER SWITCH
	DOCKING STATION		TRANSFORMER
			AC/DC INVERTER
			FUSED DISCONNECT
			MAGNETIC STARTER / DISCONNECT
	PAD MOUNTED SWITCHGEAR		SURGE PROTECTION
			CURRENT TRANSFORMER
	SECTIONALIZING CABINET		FEED THRU METER
			CT METER
	EQUIPMENT ENCLOSURE		CIRCUIT BREAKER
			FUSED SWITCH
	GROUNDING ELECTRODES		UNFUSED SWITCH
			MOTOR
	GROUNDING ELECTRODES		NEW LINE TYPE
			EXISTING LINE TYPE
	SWITCHBOARD BUS		DEMOLITION LINE TYPE

COPPER TRANSFORMER SCHEDULE																		
PRIMARY (LINE) SIDE 480D, 3P, 3W											SECONDARY (LOAD) SIDE 208/120Y, 3P, 4W							
TRANS KVA	O.C. PROT.	TYPE COND.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUCTOR SIZE	GROUND COND.	CONDUIT SIZE	GEC ①	MIN. Z%	O.C. PROT.	TYPE COND.*	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUCTOR SIZE	CONDUIT SIZE	BONDING JUMPER ②
15	30	P015	30	1	3	10	10	3/4"	10	3	60	S015	70	1	4	4	1-1/2"	8
30	50	P030	50	1	3	6	8	1"	6	3	100	S030	110	1	4	1	2"	6
45	70	P045	70	1	3	4	8	1-1/4"	4	3	175	S045	200	1	4	3/0	2"	4
75	125	P075	125	1	3	1/0	6	2"	2	3	225	S075	230	1	4	4/0	2-1/2"	2
112.5	175	P112	175	1	3	2/0	6	2"	1/0	4	400	S112	460	2	4	4/0	3"	1/0
150	300	P150	310	1	3	3/0	3	3"	2/0	4	600	S150	620	2	4	3/0	3"	2/0
225	400	P225	380	1	3	500	3	4"	2/0	4	800	S225	930	3	4	3/0	3"	2/0
300	600	P300	620	2	3	3/0	1	3"	3/0	5	1200	S300	1240	4	4	3/0	3"	4/0
500	800	P500	760	2	3	500	1/0	4"	3/0	5	1600	S500	1675	5	4	4/0	4"	2/0
750	1200	P750	1260	4	3	350	3/0	3"	3/0	5	3000	S750	3040	8	4	500	4"	500

NOTES:
① GROUNDING ELECTRODE CONDUCTOR. (NEC 250.66)
② SUPPLY SIDE BONDING JUMPER. (NEC 250.102 (C)(1))

COPPER CONDUCTOR & CONDUIT SCHEDULE									
TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUCTOR SIZE	CONDUIT SIZE	EQ. OMD. COND.		
30-2	30	30	1	2	10	3/4"	10		
30-3	30	30	1	3	10	3/4"	10		
30-4	30	30	1	4	10	3/4"	10		
40-2	40	40	1	2	8	1"	10		
40-3	40	40	1	3	8	1"	10		
40-4	40	40	1	4	8	1"	10		
60-2	60	55	1	2	6	1-1/4"	8		
60-3	60	55	1	3	6	1-1/4"	8		
60-4	60	55	1	4	6	1-1/4"	8		
70-2	70	70		2	4	1"	8		
70-3	70	70	1	3	4	1-1/4"	8		
70-4	70	70	1	4	4	1-1/4"	8		
90-2	90	85	1	2	3	1-1/4"	8		
90-3	90	85	1	3	3	1-1/4"	8		
90-4	90	85	1	4	3	1-1/2"	8		
90-5	90	88	1	5	1	2"	6		
100-3	100	95	1	3	2	1-1/2"	6		
100-4	100	95	1	4	2	1-1/2"	6		
110-3	110	110	1	3	1	1-1/2"	6		
110-4	110	110	1	4	1	2"	6		
125-5	125	120	1	5	1/0	2"	6		
150-3	150	150	1	3	1/0	2"	6		
150-4	150	150	1	4	1/0	2"	6		
150-5	150	140	1	5	2/0	2"	6		
175-3	175	175	1	3	2/0	2"	6		
175-4	175	175	1	4	2/0	2"	6		
175-5	175	180	1	5	3/0	2-1/2"	6		
200-3	200	200	1	3	3/0	2"	6		
200-4	200	200	1	4	3/0	2"	6		
200-5	200	184	1	5	4/0	2-1/2"	4		
250-3	250	230	1	3	4/0	2-1/2"	4		
250-4	250	230	1	4	4/0	2-1/2"	4		
250-5	250	248	1	5	3/0	3"	3		
300-3	300	255	1	3	2/0	3"	4		
300-4	300	255	1	4	2/0	3"	4		
300-5	300	268	1	4	3/0	3"	3		
350-3	350	310	1	3	3/0	3"	3		
350-4	350	310	1	4	3/0	3"	3		
350-5	350	304	1	5	500	4"	3		
400-3	400	380	1	3	500	4"	3		
400-4	400	380	1	4	500	4"	3		
400-5	400	368	2	5	4/0	3"	3		
600-3	600	620	2	3	3/0	3"	1		
600-4	600	620	2	4	3/0	3"	1		
600-5	600	608	2	5	500	3"	1		
800-3	800	760	2	3	500	4"	1/0		
800-4	800	760	2	4	500	4"	1/0		
800-5	800	744	3	5	3/0	4"	1/0		
1000-3	1000	1140	3	3	500	4"	2/0		
1000-4	1000	1140	3	4	500	4"	2/0		
1000-5	1000	1072	4	5	400	4"	2/0		
1200-3	1200	1240	4	3	3/0	4"	3/0		
1200-4	1200	1240	4	4	3/0	4"	3/0		
1200-5	1200	1216	4	5	500	4"	3/0		
1600-3	1600	1675	5	3	400	4"	4/0		
1600-4	1600	1675	5	4	400	4"	4/0		
1600-5	1600	1608	6	5	400	4"	4/0		
2000-4	2000	2010	6	4	400	4"	2/0		
2500-4	2500	2560	7	4	500	4"	3/0		
3000-4	3000	3040	8	4	500	4"	4/0		
4000-4	4000	4180	11	4	500	4"	500		

NOTES:
1. FOR GROUND CONDUCTOR IN PARALLEL RUNS, SIZE IN ACCORDANCE WITH NEC PARAGRAPH 250.122.
2. GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS
3. ALL COPPER CABLE TO BE THINWALL.
* 200% NEUTRAL, DERATED TO 80% BASED ON NEC 310.15.B(3)(C)



1 Electrical One-Line Diagram
1/2" = 1'-0"



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BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE
300 EAST 1500 SOUTH

GARLAND, UTAH



REVISIONS		
MARK	DATE	DESCRIPTION

DATE: 23 JUNE 2026
PROJECT NO: 260270
DRAWN BY: LA
CHK'D BY: ST

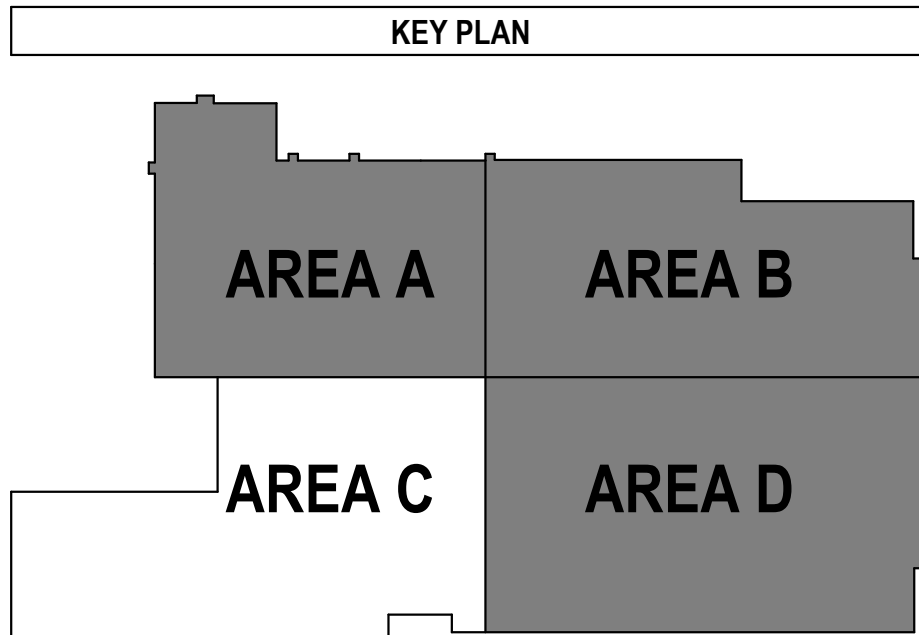
ELECTRICAL
ONE-LINE DIAGRAM

EG004

CONSTRUCTION DOCUMENTS



1 LEVEL 1 OVERALL DEMOLITION FLOOR PLAN
1/16" = 1'-0"



- ### ELECTRICAL DEMOLITION NOTES
- REFERENCE & COORDINATION**
 - REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DEMOLITION AND CONSTRUCTION PHASES. COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONSTRUCTION REQUIREMENTS, DOOR RELOCATIONS, AND WALL MODIFICATIONS.
 - EXISTING DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN, PRESERVE AND PROTECT.
 - CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION, CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
 - DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.
 - DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
 - COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN THE AREA.
 - DEVICE & FIXTURE REMOVAL**
 - DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES, SWITCHES, AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
 - REMOVE ALL CONDUIT/WIRING IN WALLS SCHEDULED FOR DEMOLITION (SHOWN DASHED) BACK TO THE LAST ACTIVE DEVICE.
 - WHERE NEW WALLS INTERSECT EXISTING ONES, REMOVE ANY AFFECTED DEVICES, BOXES, OR BACK BOXES.
 - CIRCUIT CONTINUITY & SYSTEM MODIFICATIONS**
 - FURNISH AND INSTALL CONDUIT, WIRING, AND/OR COMMUNICATIONS DATA CABLING AS NECESSARY TO MAINTAIN CONTINUITY OF FEEDERS, BRANCH CIRCUITS, AND SYSTEMS SERVING DEVICES OR EQUIPMENT TO REMAIN.
 - RECONNECT, RELOCATE, AND/OR REWIRE EXISTING DEVICES, FIXTURES, OR EQUIPMENT AS REQUIRED TO AVOID CONSTRUCTION CONFLICTS AND ENSURE PROPER OPERATION.
 - EQUIPMENT OUTSIDE WORK AREA**
 - LEAVE ALL EQUIPMENT IN NON-REMODELED AREAS IN WORKING CONDITION. RESTORE ANY INTERRUPTED FEEDERS, BRANCH CIRCUITS, OR SYSTEMS TO FULL OPERATION.
 - RACEWAYS & WIRING**
 - EXISTING RACEWAYS MAY BE REUSED IF THEY MEET CURRENT CODE, SPECIFICATIONS, AND PROJECT INTENT. VERIFY THEIR INTEGRITY BEFORE REUSE.
 - CONCEAL RACEWAYS AND WIRING IN EXISTING WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED. USE SURFACE METAL RACEWAY ONLY WHERE EXPLICITLY NOTED.
 - REMOVE ALL UNUSED RACEWAYS, CONDUCTORS, BOXES, DEVICES, AND EQUIPMENT NOT INTENDED FOR REUSE.
 - LIGHTING FIXTURE HANDLING**
 - REMOVE FIXTURES NOT TO BE REUSED AND EITHER RETAIN FOR THE OWNER OR DISPOSE OF PROPERLY. STORE REUSABLE FIXTURES IN CARTONS AND LABEL CLEARLY.
 - COVER PLATES**
 - PROVIDE BLANK COVER PLATES ON ALL UNUSED OPENINGS.
 - PENETRATIONS**
 - DO NOT PENETRATE STRUCTURAL ELEMENTS (FLOORS, WALLS, CEILINGS, ROOFS, ETC.) UNLESS SPECIFICALLY PERMITTED IN THE CONSTRUCTION DOCUMENTS.
- ### KEYNOTES
- DEMOLISH EXISTING DEVICE. REMOVE CONDUIT AND WIRE BACK TO NEAREST REMAINING DEVICE. MAINTAIN CIRCUIT INTEGRITY. IF NO DEVICES REMAIN, REMOVE CONDUIT AND WIRE BACK TO SOURCE AND MARK BREAKER AS SPARE. PROVIDE NEW UPDATED TYPED PANEL SCHEDULE INDEX. IF CONDUIT IS INACCESSIBLE, CUT CONDUIT FLUSH WITH STRUCTURAL SURFACE.

BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE 300 EAST 1500 SOUTH GARLAND, UTAH



REVISIONS		
MARK	DATE	DESCRIPTION

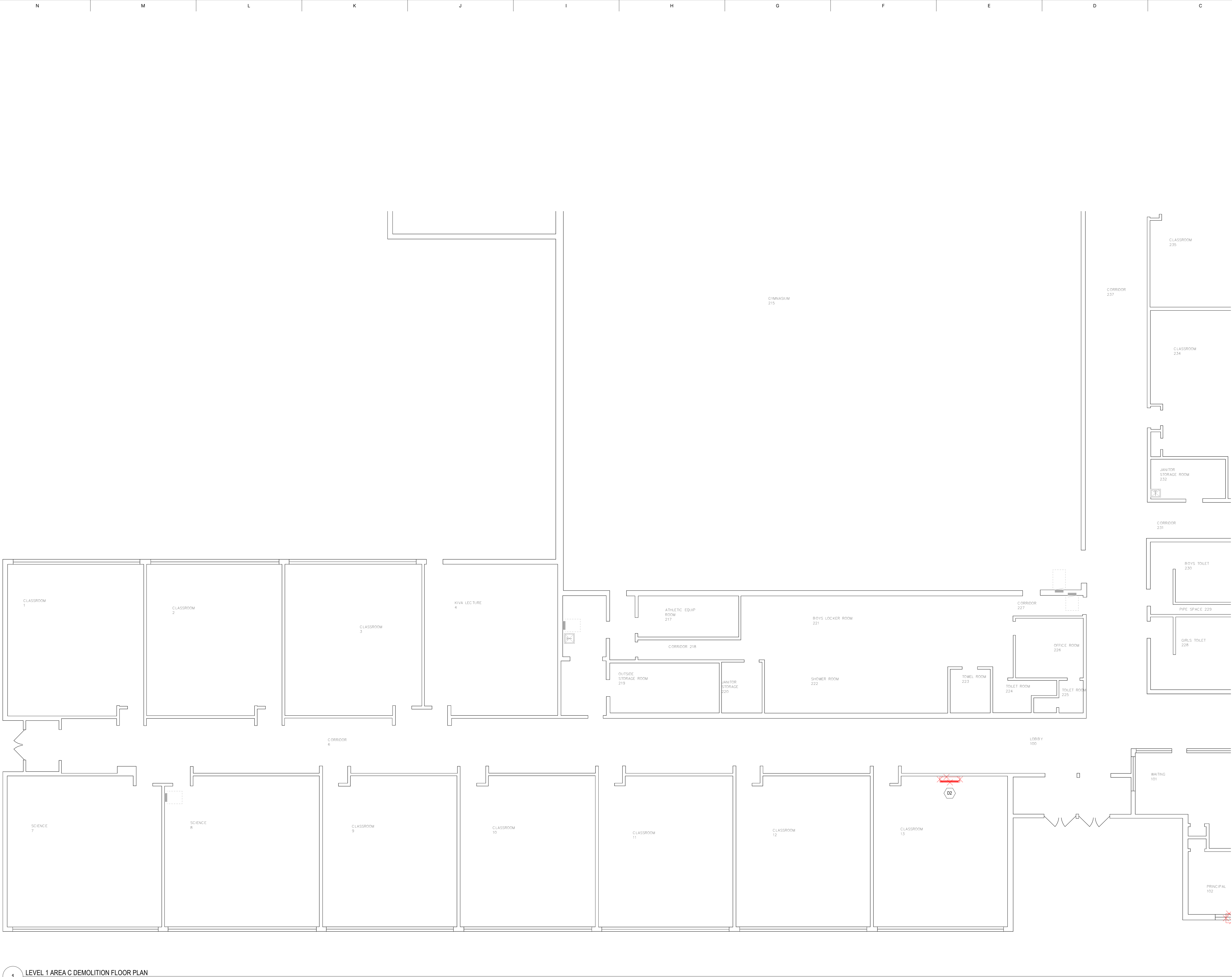
DATE: 23 JUNE 2026
PROJECT NO: 260270
DRAWN BY: LA
CHK'D BY: ST

LEVEL 1 OVERALL
ELECTRICAL
DEMOLITION PLAN

ED100

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1 LEVEL 1 AREA C DEMOLITION FLOOR PLAN
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

- REFERENCE & COORDINATION**
 - REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DEMOLITION AND CONSTRUCTION PHASES. COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONSTRUCTION REQUIREMENTS, DOOR RELOCATIONS AND WALL MODIFICATIONS.
 - EXISTING DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN, PRESERVE AND PROTECT.
 - CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION, CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
 - DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.
 - DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
 - COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN THE AREA.
- DEVICE & FIXTURE REMOVAL**
 - DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES, SWITCHES, AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
 - REMOVE ALL CONDUIT/WIRING IN WALLS SCHEDULED FOR DEMOLITION (SHOWN DASHED) BACK TO THE LAST ACTIVE DEVICE.
 - WHERE NEW WALLS INTERSECT EXISTING ONES, REMOVE ANY AFFECTED DEVICES, BOXES, OR BACK BOXES.
- CIRCUIT CONTINUITY & SYSTEM MODIFICATIONS**
 - FURNISH AND INSTALL CONDUIT, WIRING, AND/OR COMMUNICATIONS DATA CABLING AS NECESSARY TO MAINTAIN CONTINUITY OF FEEDERS, BRANCH CIRCUITS, AND SYSTEMS SERVING DEVICES OR EQUIPMENT TO REMAIN.
 - RECONNECT, RELOCATE, AND/OR REWIRE EXISTING DEVICES, FIXTURES, OR EQUIPMENT AS REQUIRED TO AVOID CONSTRUCTION CONFLICTS AND ENSURE PROPER OPERATION.
- EQUIPMENT OUTSIDE WORK AREA**
 - LEAVE ALL EQUIPMENT IN NON-REMODELED AREAS IN WORKING CONDITION. RESTORE ANY INTERRUPTED FEEDERS, BRANCH CIRCUITS, OR SYSTEMS TO FULL OPERATION.
- RACEWAYS & WIRING**
 - EXISTING RACEWAYS MAY BE REUSED IF THEY MEET CURRENT CODE, SPECIFICATIONS, AND PROJECT INTENT. VERIFY THEIR INTEGRITY BEFORE REUSE.
 - CONCEAL RACEWAYS AND WIRING IN EXISTING WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED. USE SURFACE METAL RACEWAY ONLY WHERE EXPLICITLY NOTED.
 - REMOVE ALL UNUSED RACEWAYS, CONDUCTORS, BOXES, DEVICES, AND EQUIPMENT NOT INTENDED FOR REUSE.
- LIGHTING FIXTURE HANDLING**
 - REMOVE FIXTURES NOT TO BE REUSED AND EITHER RETAIN FOR THE OWNER OR DISPOSE OF PROPERLY. STORE REUSABLE FIXTURES IN CARTONS AND LABEL CLEARLY.
- COVER PLATES**
 - PROVIDE BLANK COVER PLATES ON ALL UNUSED OPENINGS.
- PENETRATIONS**
 - DO NOT PENETRATE STRUCTURAL ELEMENTS (FLOORS, WALLS, CEILINGS, ROOFS, ETC.) UNLESS SPECIFICALLY PERMITTED IN THE CONSTRUCTION DOCUMENTS.

KEYNOTES

- DEMOLISH EXISTING DEVICE. REMOVE CONDUIT AND WIRE BACK TO NEAREST REMAINING DEVICE. MAINTAIN CIRCUIT INTEGRITY. IF NO DEVICES REMAIN, REMOVE CONDUIT AND WIRE BACK TO SOURCE AND MARK BREAKER AS SPARE. PROVIDE NEW UPDATED TYPED PANEL SCHEDULE INDEX. IF CONDUIT IS INACCESSIBLE, CUT CONDUIT FLUSH WITH STRUCTURAL SURFACE.

KEY PLAN

CONSTRUCTION DOCUMENTS

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BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE 300 EAST 1500 SOUTH GARLAND, UTAH



REVISIONS		
MARK	DATE	DESCRIPTION

DATE: 23 JUNE 2026
PROJECT NO: 260270
DRAWN BY: LA
CHK'D BY: ST

LEVEL 1 AREA C
ELECTRICAL
DEMOLITION PLAN

ED101

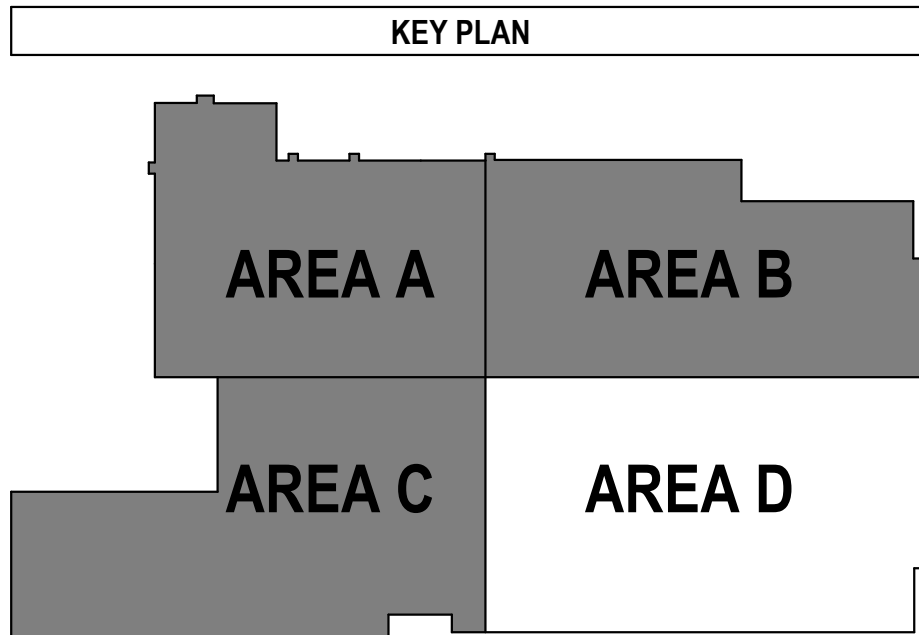
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Autodesk Docs (26/02/20) BESD Bear River Middle School Cooling Upgrade

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1 LEVEL 1 AREA D DEMOLITION FLOOR PLAN
1" = 10'-0"



- ### ELECTRICAL DEMOLITION NOTES
- REFERENCE & COORDINATION**
 - REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DEMOLITION AND CONSTRUCTION PHASES. COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONSTRUCTION REQUIREMENTS, DOOR RELOCATIONS, AND WALL MODIFICATIONS.
 - EXISTING DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN, PRESERVE AND PROTECT.
 - CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
 - DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.
 - DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
 - COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN THE AREA.
 - DEVICE & FIXTURE REMOVAL**
 - DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES, SWITCHES, AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
 - REMOVE ALL CONDUIT/WIRING IN WALLS SCHEDULED FOR DEMOLITION (SHOWN DASHED) BACK TO THE LAST ACTIVE DEVICE.
 - WHERE NEW WALLS INTERSECT EXISTING ONES, REMOVE ANY AFFECTED DEVICES, BOXES, OR BACK BOXES.
 - CIRCUIT CONTINUITY & SYSTEM MODIFICATIONS**
 - FURNISH AND INSTALL CONDUIT, WIRING, AND/OR COMMUNICATIONS DATA CABLING AS NECESSARY TO MAINTAIN CONTINUITY OF FEEDERS, BRANCH CIRCUITS, AND SYSTEMS SERVING DEVICES OR EQUIPMENT TO REMAIN.
 - RECONNECT, RELOCATE, AND/OR RERUN EXISTING DEVICES, FIXTURES, OR EQUIPMENT AS REQUIRED TO AVOID CONSTRUCTION CONFLICTS AND ENSURE PROPER OPERATION.
 - EQUIPMENT OUTSIDE WORK AREA**
 - LEAVE ALL EQUIPMENT IN NON-REMODELED AREAS IN WORKING CONDITION. RESTORE ANY INTERRUPTED FEEDERS, BRANCH CIRCUITS, OR SYSTEMS TO FULL OPERATION.
 - RACEWAYS & WIRING**
 - EXISTING RACEWAYS MAY BE REUSED IF THEY MEET CURRENT CODE, SPECIFICATIONS, AND PROJECT INTENT. VERIFY THEIR INTEGRITY BEFORE REUSE.
 - CONCEAL RACEWAYS AND WIRING IN EXISTING WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED. USE SURFACE METAL RACEWAY ONLY WHERE EXPLICITLY NOTED.
 - REMOVE ALL UNUSED RACEWAYS, CONDUCTORS, BOXES, DEVICES, AND EQUIPMENT NOT INTENDED FOR REUSE.
 - LIGHTING FIXTURE HANDLING**
 - REMOVE FIXTURES NOT TO BE REUSED AND EITHER RETAIN FOR THE OWNER OR DISPOSE OF PROPERLY. STORE REUSABLE FIXTURES IN CARTONS AND LABEL CLEARLY.
 - COVER PLATES**
 - PROVIDE BLANK COVER PLATES ON ALL UNUSED OPENINGS.
 - PENETRATIONS**
 - DO NOT PENETRATE STRUCTURAL ELEMENTS (FLOORS, WALLS, CEILINGS, ROOFS, ETC.) UNLESS SPECIFICALLY PERMITTED IN THE CONSTRUCTION DOCUMENTS.

- ### KEYNOTES
- D2 DEMOLISH EXISTING DEVICE. REMOVE CONDUIT AND WIRE BACK TO NEAREST REMAINING DEVICE. MAINTAIN CIRCUIT INTEGRITY. IF NO DEVICES REMAIN, REMOVE CONDUIT AND WIRE BACK TO SOURCE AND MARK BREAKER AS SPARE. PROVIDE NEW UPDATED TYPED PANEL SCHEDULE INDEX. IF CONDUIT IS INACCESSIBLE, CUT CONDUIT FLUSH WITH STRUCTURAL SURFACE.

BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE 300 EAST 1500 SOUTH GARLAND, UTAH



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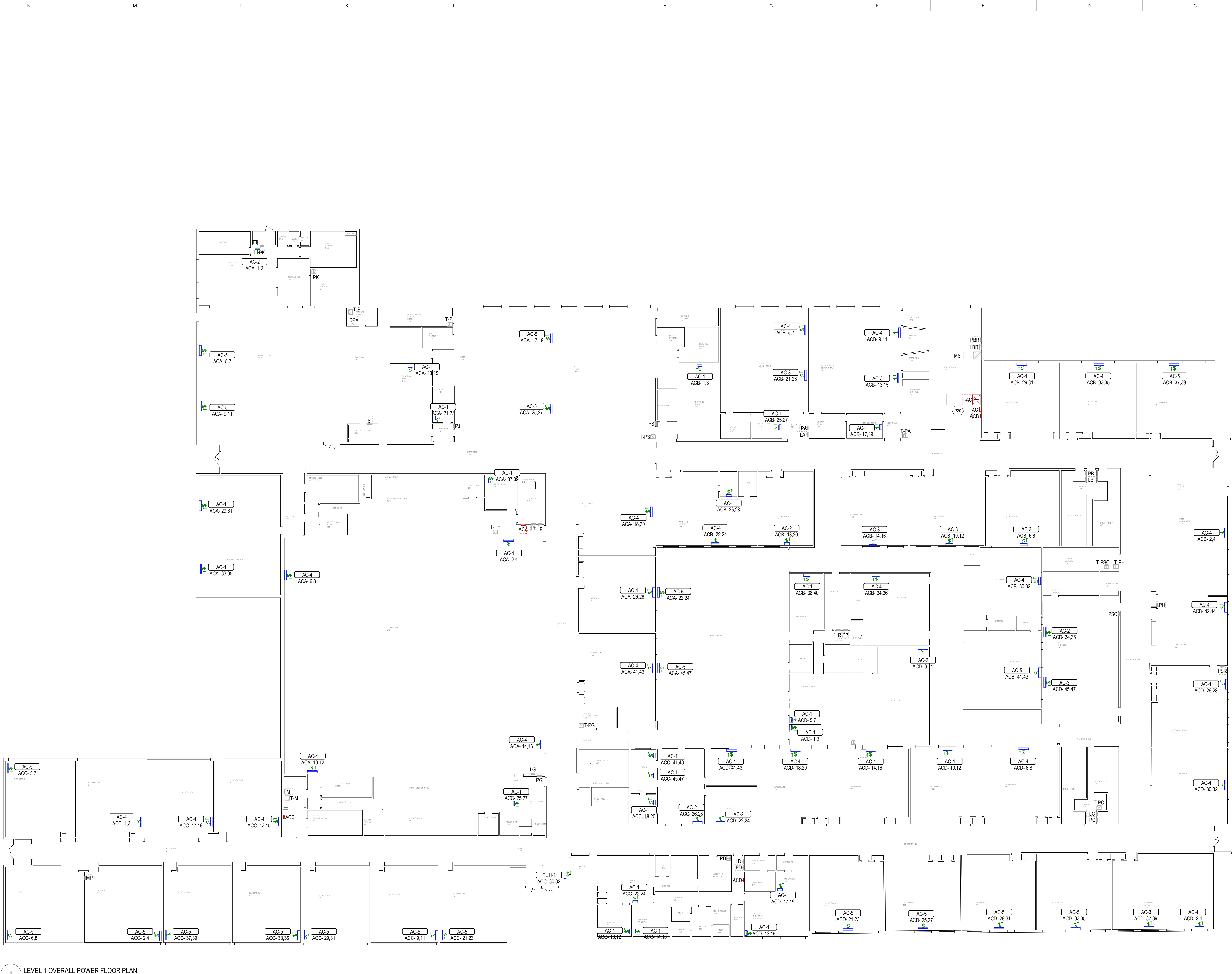
DATE: 23 JUNE 2026
PROJECT NO: 260270
DRAWN BY: LA
CHK'D BY: ST

LEVEL 1 AREA D
ELECTRICAL
DEMOLITION PLAN

ED102

THIS PRINT IS IN COLOR

8/20/2026 11:55:53 PM BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE Autodesk Docs/260270/BESD Bear River Middle School Cooling, ELEC_2026.rvt



1 LEVEL 1 OVERALL POWER FLOOR PLAN
1/16" = 1'-0"

POWER SHEET NOTES

- GENERAL REQUIREMENTS
 - WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED 20A.
 - PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR-MOUNTED AND GRADE-MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS:
 - 4" HEIGHT
 - 4% AIR-ENTRAINED, POLYESTER-REINFORCED CONCRETE
 - PAV DIMENSIONS: 4" WIDER AND 4" LONGER THAN THE EQUIPMENT FOOTPRINT
 - REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS WHERE REQUIREMENTS MAY EXCEED THE ABOVE.
 - VOLTAGE DROP SHALL BE LESS THAN 5% FROM SERVICE TO FURTHEST CIRCUIT PER NEC. ADJUST CONDUCTOR SIZES ACCORDINGLY. REFER TO SECTION 26 0619 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS DUE TO VOLTAGE DROP.
- WIRING & CIRCUITING
 - FOR PROJECTS WHERE WIRING IS SHOWN:
 - WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE THE CIRCUITING AND SWITCHING CONNECTIONS INDICATED.
 - MODIFICATIONS TO THE NUMBER OF CONDUCTORS IN HOME RUNS, IN ADDITION TO THE CIRCUITS INDICATED ON THE DRAWINGS, ARE PROHIBITED.
- MECHANICAL & FIRE/SMOKE DAMPER COORDINATION
 - ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL MECHANICAL UNITS WITH THE MECHANICAL CONTRACTOR.
 - CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
 - PROVIDE A 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS.
 - ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH.
 - PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.
 - ALL INDOOR A/C UNITS TO BE TIED FROM RESPECTIVE OUTDOOR COIL UNIT. COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS.

KEYNOTES

P20. EC TO LOCATE TRANSFORMER AND PANELBOARDS SUCH THAT ALL NEC CLEARANCES ARE MET.



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BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE
300 EAST 1500 SOUTH
GARLAND, UTAH



REVISIONS

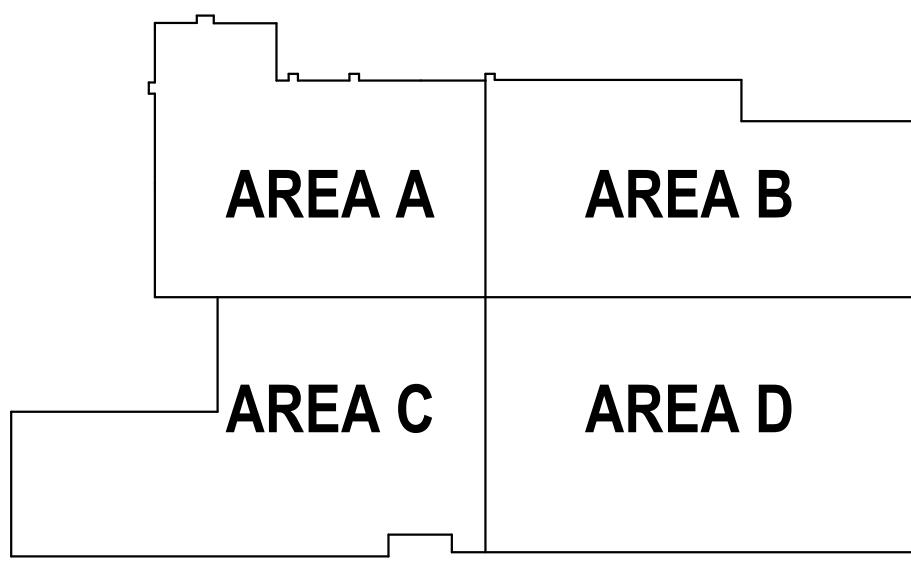
MARK	DATE	DESCRIPTION

DATE: 23 JUNE 2026
PROJECT NO: 260270
DRAWN BY: LA
CHK'D BY: ST

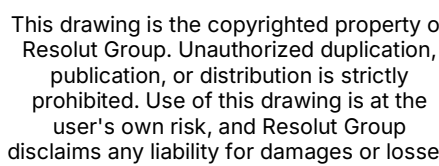
LEVEL 1 OVERALL
ELECTRICAL POWER
PLAN

EP100

KEY PLAN

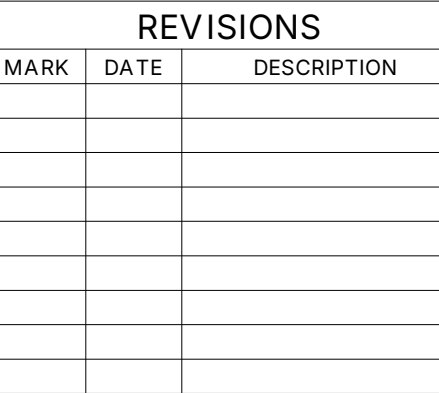


CONSTRUCTION DOCUMENTS



BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE
300 EAST 1500 SOUTH
GARLAND, UTAH

GARLAND, UTAH



LEVEL 1 AREA A
ELECTRICAL POWER
PLAN

EP101

GENERAL REQUIREMENTS

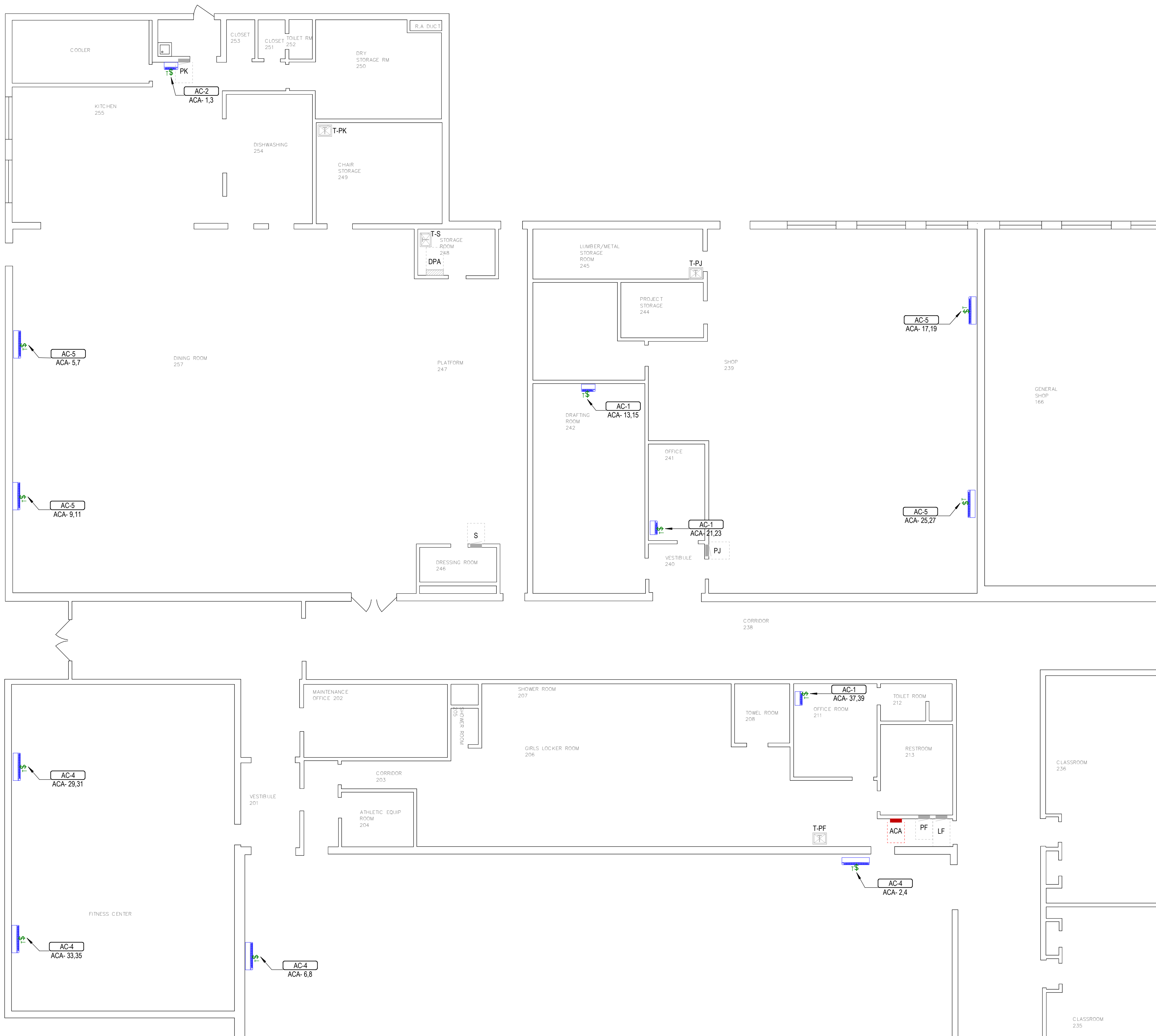
- A. WHERE CABLED TO A BARE BROWN DRUM SUPPLY INDIVIDUAL RECEPTACLE OR SIMILAR OR TO THE RECEPTACLE SHALL BE RATED 250 AMP.
- B. PROVIDE HOUSING PADS FOR ALL 400 KILOVOLT AND GRADE-MOUNTED TRANSFORMER EQUIPMENT. PROVIDE THE FOLLOWING:
 1. 4" HEIGHT
 2. 1/2" MIN. THICK POLYESTER-REINFORCED CONCRETE
 3. PAD DIMENSIONS: 4" WIDER AND 4" LONGER THAN THE EQUIPMENT FOOTPRINT
 4. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER GENERATOR OR OTHER PAD W/AS WELL AS THE RECEPTACLE TO BE ABOVE
- C. VOLTAGE DROP SHALL BE LESS THAN 5% FROM SERVICE TO FURTHEST CIRCUIT PER HOUR. PROVIDE 10% OVERHEAD LINE LOSS. PROVIDE 2% LOSS 200/10/10/10 MINIMUM CONDUCTOR SIZE ADJUSTMENTS DUE TO VOLTAGE DROP.

WIRING & CIRCUITS

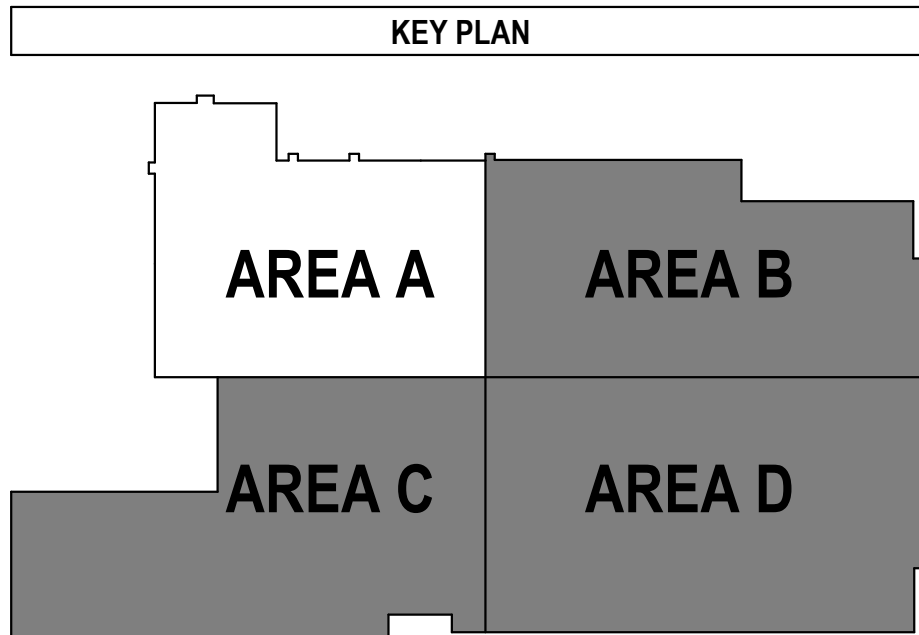
- A. FOR PRODUCTS WHERE WIRING IS SHOWN
- B. GIVE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE POWER NUMBER OF CONDUCTORS TO ACHIEVE THE CIRCUITING AND SWITCHING CONNECTIONS
- C. PROVIDE THE FOLLOWING:
 1. INDICATE THE NUMBER OF CONDUCTORS IN EACH RUN, IN ADDITION TO THE CIRCUITS INDICATED ON THE DRAWINGS. ARE PROHIBITED

MECHANICAL & FIREWIRE DAMPER COORDINATION

- A. COORDINATE THE CONTRACTOR TO THE EXACT LOCATION OF ALL MECHANICAL UNITS WITH THE MECHANICAL CONTRACTOR
- B. GIVE COUNT ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE
- C. PROVIDE A 120V CIRCUIT FROM THE NEAREST AVAILABLE PANEL FOR FIREWIRE DAMPER POWER. PROVIDE 120V FIRE ALARM NECESSARY FOR FIREWIRE DAMPER
- D. PROVIDE 120V FIRE ALARM NECESSARY FOR FIREWIRE DAMPER
- E. PROVIDE FIREWIRE DAMPERS SHOWN ON DIVISION 23 DRAWINGS
- F. PROVIDE FIREWIRE DAMPER DAMPER POWER FROM THE NEAREST OVERHEAD SWITCH
- G. PROVIDE DETECTOR WITHIN FIVE FEET OF EACH FIREWIRE DAMPER
- H. ALL INDOOR A/C UNITS TO BE FED FROM RESPECTIVE OUTDOOR CU UNIT. COORDINATE WITH THE MECHANICAL CONTRACTOR



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



CONSTRUCTION DOCUMENTS



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

- POWER SHEET NOTES
1. GENERAL REQUIREMENTS

A. WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED 20A.

B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR-MOUNTED AND GRADE-MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS:

1. 4" HEIGHT

2. 4% AIR-ENTRAINED, POLYESTER-REINFORCED CONCRETE

3. PAD DIMENSIONS: 4" WIDER AND 4" LONGER THAN THE EQUIPMENT FOOTPRINT

4. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS WHERE REQUIREMENTS MAY EXCEED THE ABOVE.

C. VOLTAGE DROP SHALL BE LESS THAN 5% FROM SERVICE TO FURTHEST CIRCUIT PER NEC. ADJUST CONDUCTOR SIZES ACCORDINGLY. REFER TO SECTION 26 0619 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS DUE TO VOLTAGE DROP.

2. WIRING & CIRCUITING

A. FOR PROJECTS WHERE WIRING IS SHOWN:

B. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE THE CIRCUITING AND SWITCHING CONNECTIONS INDICATED.

C. MODIFICATIONS TO THE NUMBER OF CONDUCTORS IN HOME RUNS, IN ADDITION TO THE CIRCUITS INDICATED ON THE DRAWINGS, ARE PROHIBITED.

3. MECHANICAL & FIRE/SMOKE DAMPER COORDINATION

A. ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL MECHANICAL UNITS WITH THE MECHANICAL CONTRACTOR.

B. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

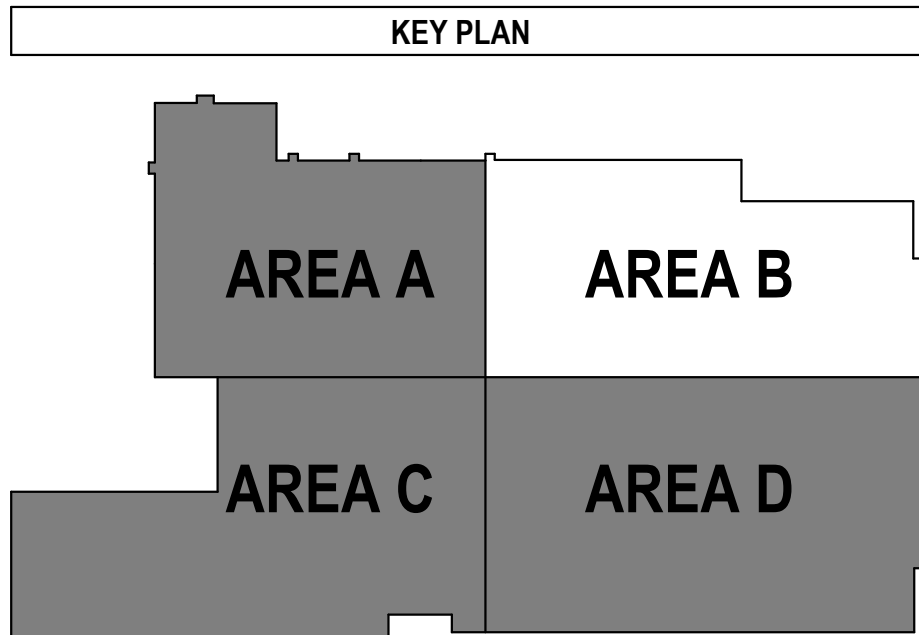
C. PROVIDE A 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS.

1. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH.

2. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.

D. ALL INDOOR A/C UNITS TO BE TIED FROM RESPECTIVE OUTDOOR COIL UNIT. COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS.

- KEYNOTES
- P20: EG TO LOCATE TRANSFORMER AND PANELBOARDS SUCH THAT ALL NEC CLEARANCES ARE MET



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BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE
300 EAST 1500 SOUTH
GARLAND, UTAH



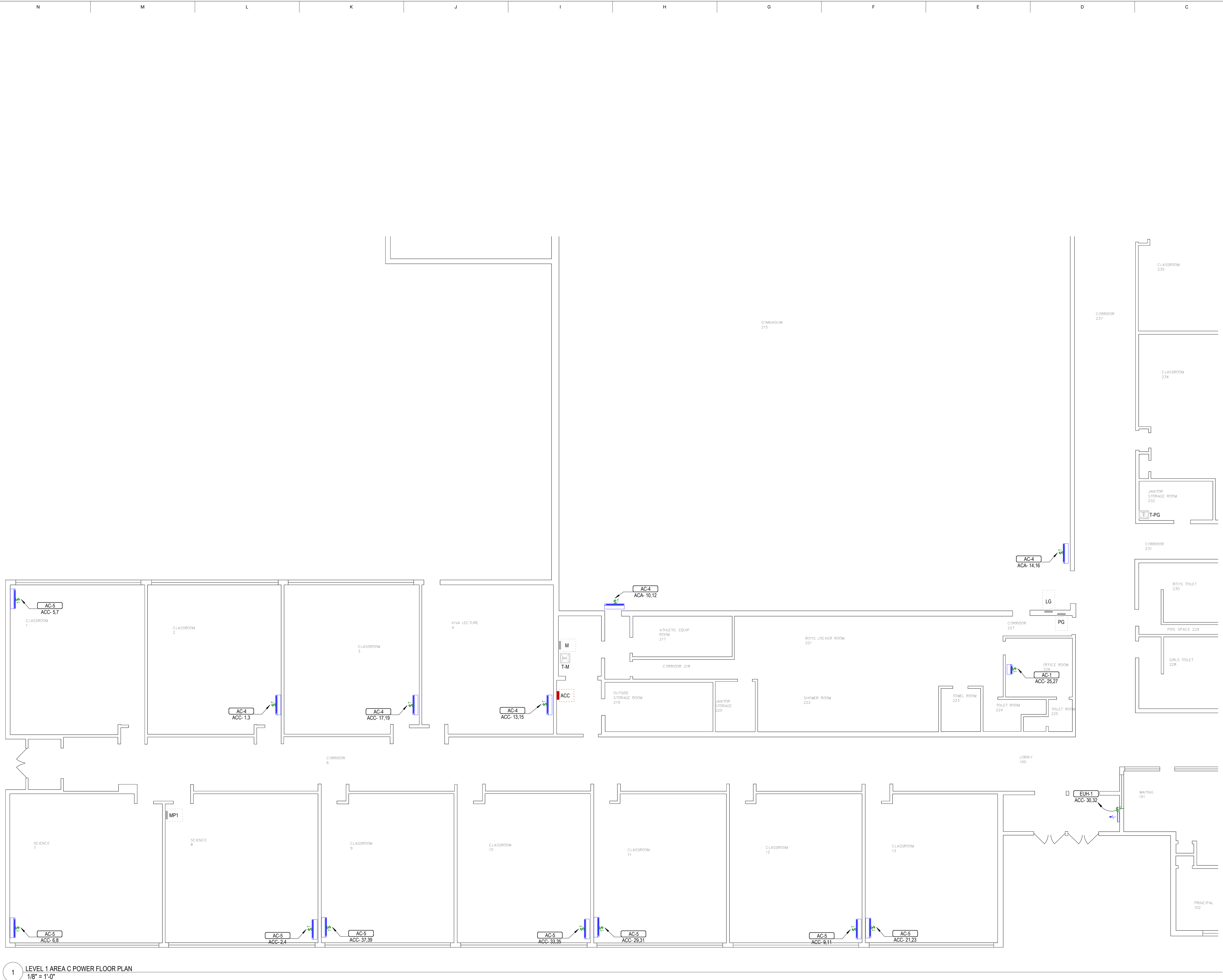
REVISIONS		
MARK	DATE	DESCRIPTION

DATE: 23 JUNE 2026
PROJECT NO: 260270
DRAWN BY: LA
CHK'D BY: ST

LEVEL 1 AREA B
ELECTRICAL POWER
PLAN

EP102

CONSTRUCTION DOCUMENTS





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BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE
300 EAST 1500 SOUTH
GARLAND, UTAH



REVISIONS		
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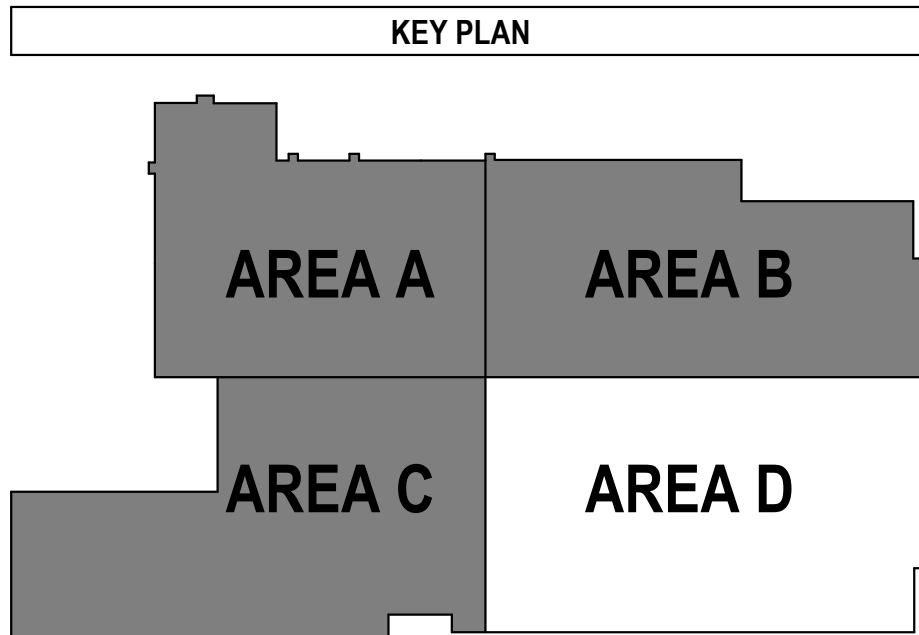
CHK'D BY: ST

LEVEL 1 AREA C
ELECTRICAL POWER
PLAN

EP103



1 LEVEL 1 AREA D POWER FLOOR PLAN
1" = 10'-0"



- POWER SHEET NOTES**
- GENERAL REQUIREMENTS**
 - WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED 20A.
 - PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR-MOUNTED AND GRADE-MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS:
 - 4" HEIGHT
 - 4% AIR-ENTRAINED POLYESTER-REINFORCED CONCRETE
 - PAD DIMENSIONS- 4" WIDER AND 4" LONGER THAN THE EQUIPMENT FOOTPRINT
 - REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PASS-WHERE REQUIREMENTS MAY EXCEED THE ABOVE
 - VOLTAGE DROP SHALL BE LESS THAN 5% FROM SERVICE TO FURTHEST CIRCUIT PER NEC. ADJUST CONDUCTOR SIZES ACCORDINGLY. REFER TO SECTION 26.05.19 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS DUE TO VOLTAGE DROP.
 - WIRING & CIRCUITING**
 - FOR PROJECTS WHERE WIRING IS SHOWN.
 - WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE THE CIRCUITING AND SWITCHING CONNECTIONS INDICATED.
 - MODIFICATIONS TO THE NUMBER OF CONDUCTORS IN HOME RUNS, IN ADDITION TO THE CIRCUITS INDICATED ON THE DRAWINGS, ARE PROHIBITED.
 - MECHANICAL & FIRE/SMOKE DAMPER COORDINATION**
 - ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL MECHANICAL UNITS WITH THE MECHANICAL CONTRACTOR.
 - CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
 - PROVIDE A 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS.
 - ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH.
 - PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.
 - ALL INDOOR AC UNITS TO BE FED FROM RESPECTIVE OUTDOOR CU UNIT. COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS.



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BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE 300 EAST 1500 SOUTH GARLAND, UTAH



REVISIONS		
MARK	DATE	DESCRIPTION

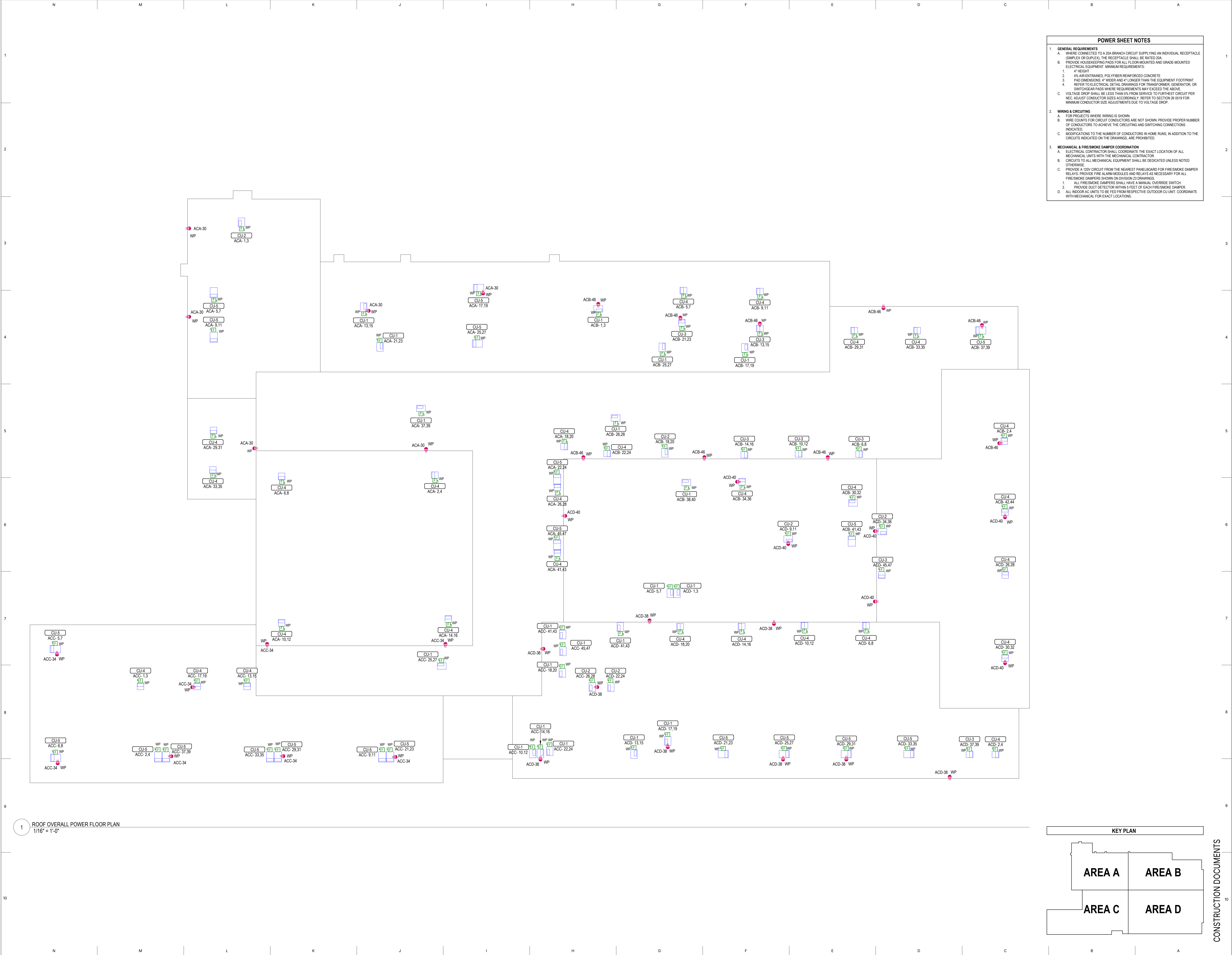
DATE: 23 JUNE 2026
PROJECT NO: 260270
DRAWN BY: LA
CHK'D BY: ST

LEVEL 1 AREA D
ELECTRICAL POWER
PLAN

EP104

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POWER SHEET NOTES

1. GENERAL REQUIREMENTS

A. WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED 20A.

B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR-MOUNTED AND GRADE-MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS:

1. 4" HEIGHT

2. 4% AIR-ENTRAINED, POLYESTER-REINFORCED CONCRETE

3. PAD DIMENSIONS: 4" WIDER AND 4" LONGER THAN THE EQUIPMENT FOOTPRINT

4. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS WHERE REQUIREMENTS MAY EXCEED THE ABOVE.

C. VOLTAGE DROP SHALL BE LESS THAN 5% FROM SERVICE TO FURTHEST CIRCUIT PER NEC. ADJUST CONDUCTOR SIZES ACCORDINGLY. REFER TO SECTION 26 0619 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS DUE TO VOLTAGE DROP.

2. WIRING & CIRCUITING

A. FOR PROJECTS WHERE WIRING IS SHOWN:

B. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE THE CIRCUITING AND SWITCHING CONNECTIONS INDICATED.

C. MODIFICATIONS TO THE NUMBER OF CONDUCTORS IN HOME RUNS, IN ADDITION TO THE CIRCUITS INDICATED ON THE DRAWINGS, ARE PROHIBITED.

3. MECHANICAL & FIRE/SMOKE DAMPER COORDINATION

A. ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL MECHANICAL UNITS WITH THE MECHANICAL CONTRACTOR.

B. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

C. PROVIDE A 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS.

1. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH.

2. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.

D. ALL INDOOR A/C UNITS TO BE TIED FROM RESPECTIVE OUTDOOR CU UNIT. COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS.



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Project #: 260270

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BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE

300 EAST 1500 SOUTH

GARLAND, UTAH



REVISIONS		
MARK	DATE	DESCRIPTION

DATE: 23 JUNE 2026

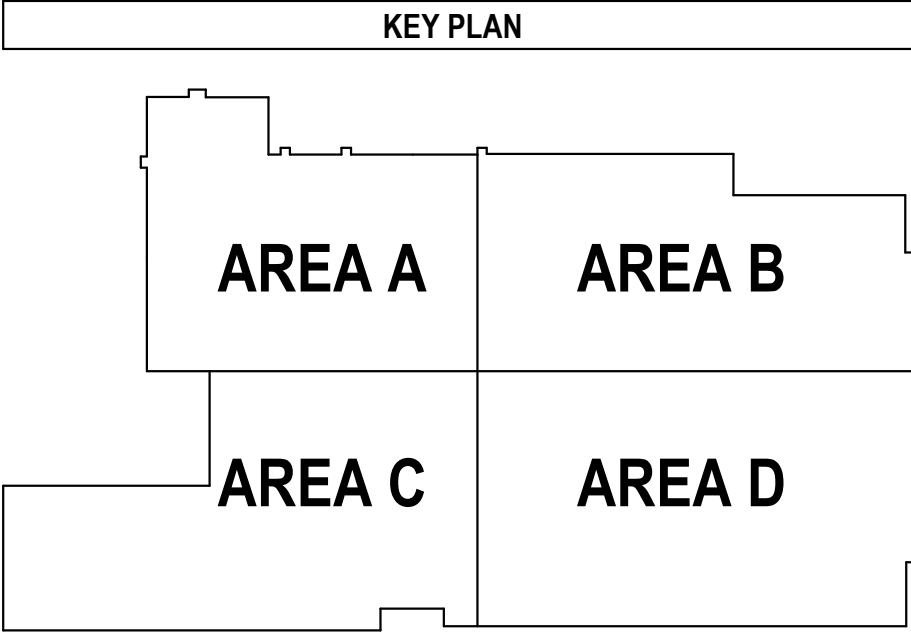
PROJECT NO: 260270

DRAWN BY: LA

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ROOF OVERALL ELECTRICAL POWER PLAN

EP200

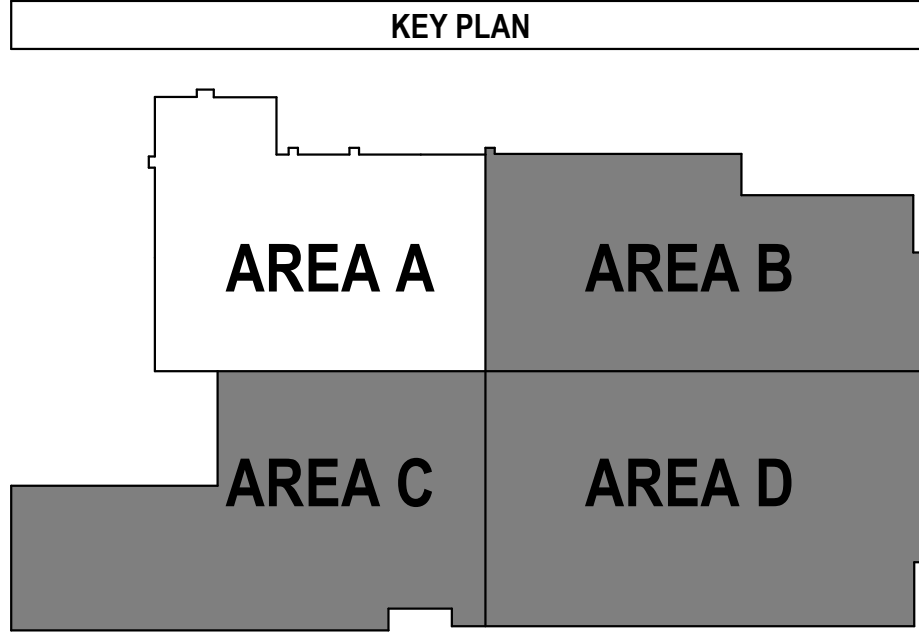


CONSTRUCTION DOCUMENTS

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8/20/2026 11:55:58 PM
BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE

1 ROOF AREA A POWER FLOOR PLAN
1/8" = 1'-0"



POWER SHEET NOTES		
1.	GENERAL REQUIREMENTS	
A.	WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED 20A.	
B.	PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR-MOUNTED AND GRADE-MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS:	
1.	4" HEIGHT	
2.	4% AIR-ENTRAINED, POLYESTER-REINFORCED CONCRETE	
3.	PAD DIMENSIONS: 4" WIDER AND 4" LONGER THAN THE EQUIPMENT FOOTPRINT	
4.	REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS WHERE REQUIREMENTS MAY EXCEED THE ABOVE.	
C.	VOLTAGE DROP SHALL BE LESS THAN 5% FROM SERVICE TO FURTHEST CIRCUIT PER NEC. ADJUST CONDUCTOR SIZES ACCORDINGLY. REFER TO SECTION 26 0619 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS DUE TO VOLTAGE DROP.	
2.	WIRING & CIRCUITING	
A.	FOR PROJECTS WHERE WIRING IS SHOWN:	
B.	WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE THE CIRCUITING AND SWITCHING CONNECTIONS INDICATED.	
C.	MODIFICATIONS TO THE NUMBER OF CONDUCTORS IN HOME RUNS, IN ADDITION TO THE CIRCUITS INDICATED ON THE DRAWINGS, ARE PROHIBITED.	
3.	MECHANICAL & FIRE/SMOKE DAMPER COORDINATION	
A.	ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL MECHANICAL UNITS WITH THE MECHANICAL CONTRACTOR.	
B.	CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.	
C.	PROVIDE A 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS.	
1.	ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH.	
2.	PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.	
D.	ALL INDOOR AC UNITS TO BE TIED FROM RESPECTIVE OUTDOOR CU UNIT. COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS.	

BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE
300 EAST 1500 SOUTH
GARLAND, UTAH



REVISIONS		
MARK	DATE	DESCRIPTION

DATE: 23 JUNE 2026
PROJECT NO: 260270
DRAWN BY: LA
CHK'D BY: ST

ROOF AREA A
ELECTRICAL POWER
PLAN

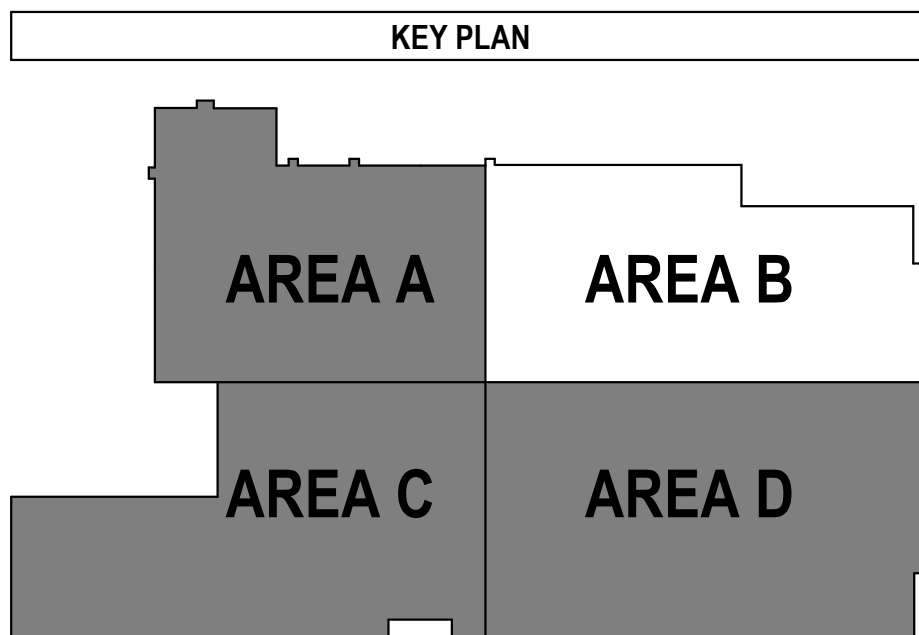
EP201

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GARLAND, UTAH

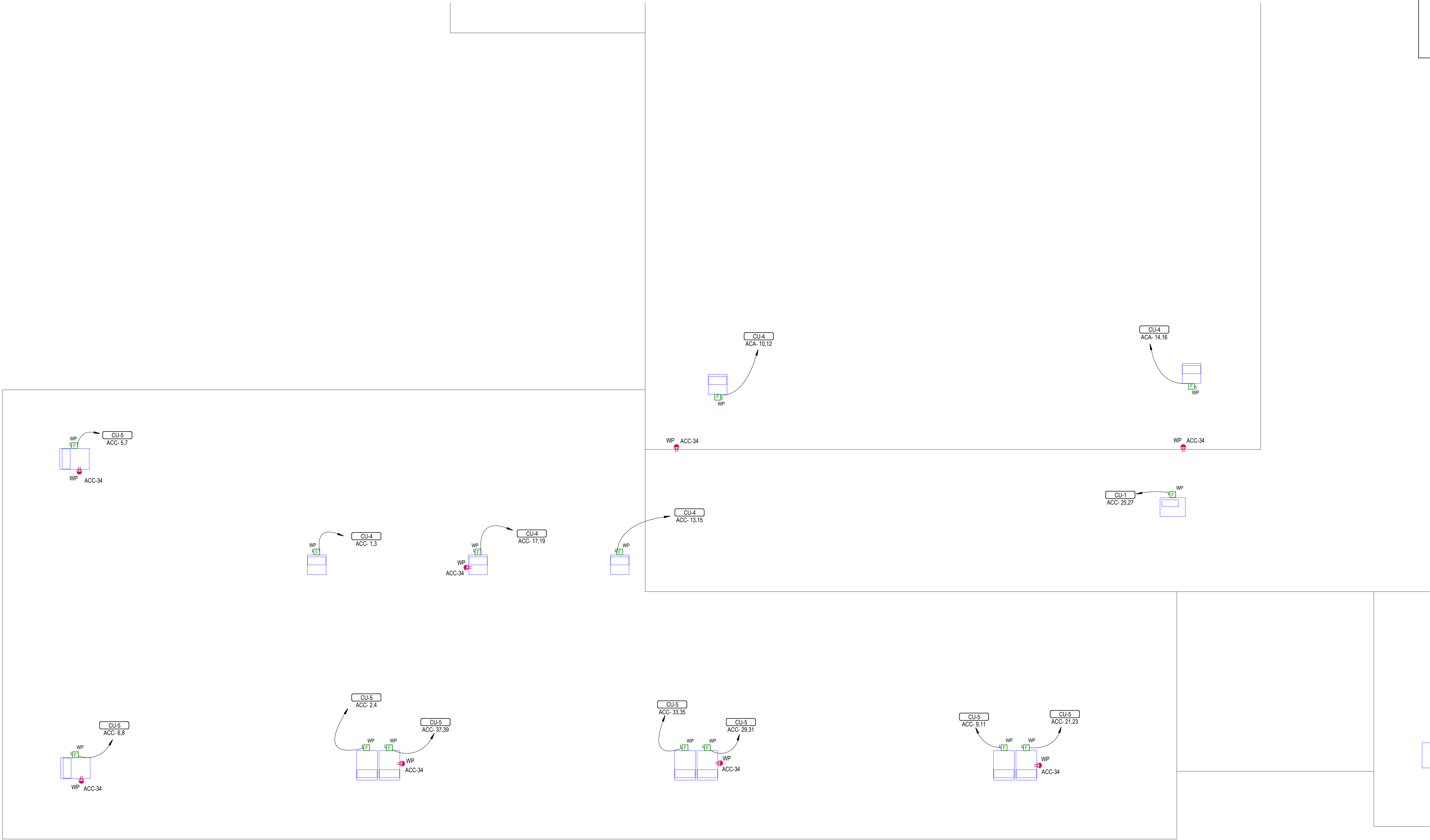


CONSTRUCTION DOCUMENTS

THIS PRINT IS IN COLOR

Autodesk Docs (260270) BESSD Bear River Middle School Cooling/260270 BESSD Bear River Middle School Cooling_ELEC_2026.rvt
BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE
8/20/2026 11:55:59 PM

1 ROOF AREA C POWER FLOOR PLAN
1/8" = 1'-0"



POWER SHEET NOTES		
1.	GENERAL REQUIREMENTS	
A.	WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED 20A.	
B.	PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR-MOUNTED AND GRADE-MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS:	
1.	4" HEIGHT	
2.	4% AIR-ENTRAINED, POLYESTER-REINFORCED CONCRETE	
3.	PAD DIMENSIONS: 4" WIDER AND 4" LONGER THAN THE EQUIPMENT FOOTPRINT	
4.	REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS WHERE REQUIREMENTS MAY EXCEED THE ABOVE.	
C.	VOLTAGE DROP SHALL BE LESS THAN 5% FROM SERVICE TO FURTHEST CIRCUIT PER NEC. ADJUST CONDUCTOR SIZES ACCORDINGLY. REFER TO SECTION 26 0619 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS DUE TO VOLTAGE DROP.	
2.	WIRING & CIRCUITING	
A.	FOR PROJECTS WHERE WIRING IS SHOWN:	
B.	WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE THE CIRCUITING AND SWITCHING CONNECTIONS INDICATED.	
C.	MODIFICATIONS TO THE NUMBER OF CONDUCTORS IN HOME RUNS, IN ADDITION TO THE CIRCUITS INDICATED ON THE DRAWINGS, ARE PROHIBITED.	
3.	MECHANICAL & FIRE/SMOKE DAMPER COORDINATION	
A.	ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL MECHANICAL UNITS WITH THE MECHANICAL CONTRACTOR.	
B.	CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.	
C.	PROVIDE A 120V CIRCUIT FROM THE NEAREST PANELBOARD FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS.	
D.	ALL INDOOR A/C UNITS TO BE TIED FROM RESPECTIVE OUTDOOR A/C UNIT. COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS.	

BEAR RIVER MIDDLE SCHOOL COOLING UPGRADE
300 EAST 1500 SOUTH
GARLAND, UTAH



REVISIONS		
MARK	DATE	DESCRIPTION

DATE: 23 JUNE 2026
PROJECT NO: 260270
DRAWN BY: LA
CHK'D BY: ST

ROOF AREA C
ELECTRICAL POWER
PLAN

EP203

