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	date:	5.28.24
	project:	Hyde Park Middle School
CONTRACT ADDENDUM 04	by:	Michael Rigby
	subject:	Addendum 05

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents. Prior to proceeding in accordance with these instructions, 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.

NOTICE: The last day to submit questions will be Thursday, May 23rd end of day. The last day for addendum release will be Tuesday, May 28th.

QUESTIONS:

DWA QUESTION - MAY 23, 2024

01 DWA Question 01: The fire hydrants don't show any concrete pads or bollards around them. Will either be necessary?

ANSWER: See Civil items

02 DWA Question 02: On sheet A411 in restrooms F125 and F127 there aren't any soap dispensers called out for any of the sinks. Should they be called out?

ANSWER: Soap dispensers added and tagged on sheet.

03 DWA Question 03: Are the digital displays called out owner provided?

ANSWER: Yes, all digital displays will be owner provided, contractor installed

04 DWA Question 04: The enlarged plan for Choir D111 shows goggle cleaning cabinets where the elevation shows felt tack boards. Where should the goggle cleaning cabinets be?

ANSWER: Tags for the tack boards, and digital display have been corrected.

05 DWA Question 05: On sheet A-418 the enlarged plans show felt tack boards, but the elevations show digital displays. Please clarify.

ANSWER: Keynotes have been corrected on sheet

06 DWA Question 06: The specifications do not call out the level of drywall finish, such as level 4 or 5, smooth or textured. Please Advise.

ANSWER: See updated Specification section 09 2116 – Gypsum board Assemblies



07 DWA Question 07: On sheet E-242 it is calling for (2) 24strand fiber line to each I.T closet. Do they want a total of 48 strands per closet or do they want (2) 12strand fiber lines ran for a total of 24 strands?

ANSWER: (1) 24-strand to each IDF, or (2) 12-strand would be acceptable. We do not need 48 fibers.

08 DWA Question 08: On sheet A-114.3 in the kitchen, it looks as though there are corner guards shown in a lot of places, but not labeled. Please clarify corner guards in the kitchen.

ANSWER: Corner guards in kitchen area are per Kitchen K-101.

09 DWA Question 09: On sheet A-114.4 in rooms D111 and D108, the legend does not reflect the materials shown in the classroom and it's not listed on the finish schedule pages. Please provide the ceiling material callout for these 2 rooms.

ANSWER: See legend in RCP A-114.4 and Sec 09 5100 Acoustical Ceilings, 2.02 Acoustical Ceilings, D FRP Lay-in Ceiling Panels.

10 DWA Question 10: The base bid roofing specs ask for a vapor barrier of 6 mil polyethylene, is that correct? Or do they want an actual roof vapor barrier installed? If so, what product/spec?

ANSWER: See updated specification section 07 5400.

11 DWA Question 11: Is EPS-tapered insulation acceptable for the sloped insulation at roof crickets?

ANSWER: This is acceptable, minimum 1.5 lb. EPS weight. See updated Roofing Specifications.

12 DWA Question 12: *ALT* 2 calls for a wind speed warranty of up to 90 mph. Is this the intended wind speed for the Base Bid also?

ANSWER: Wind uplift needs to be designed to forces calculated with ASCE 7. See both base bid and alternate bid roofing specification sections.

13 DWA Question 13: It looks like the roofing material thickness for the roofing alternate was revised from 45 mil to 60 mil in addendum 3, but the base bid roofing material is still shown as 45 mil. Please advise if the base bid will be changed as well.

ANSWER: No Base bid mill is per Specification.

14 DWA Question 14: There are a couple of sections on these parapet walls that are very wide on top, too wide for our 4'x10' sheets of metal to make a proper cap, which is what it calls for. On these areas that are too large for our metal, could we install a membrane coated metal drip edge at the face of the parapet that we can weld our membrane too to make it water tite and then, using that membrane coated metal drip edge as a hold-down clip, snap a piece of metal over that to give it the finish look they're looking for?

ANSWER: This is acceptable

15 DWA Question 15: Spec section 21 1000, 3.4G, states that 2" pipe and larger shall be threaded. Would it be possible to use grooved pipe for 2" and smaller?

ANSWER: Yes. This is noted in this addendum.



16 DWA Question 16: Storefront Spec in the basis of design of swinging doors section B it has Thermally Broken doors for E104A and E104B. There are no doors on the door schedule with those door numbers.

ANSWER: See updated Spec Section

17 DWA Question 17: On Level 1 Area E it has a window type X called out but there is no window type X on the window schedule.

ANSWER: That should be frame type W, see updated sheet A-115.2

18 DWA Question 18: In the glazing spec basis of design it has grey tinted glass called out. But is also mentions Clear. Please clarify.

ANSWER: See updated Specification section 08 8000

19 DWA Question 19: The drawings indicate there is power and lighting in Sections 1B & 2B that is supplied from the panels in sections 1A & 2A, If the alternate 1 is chosen, what is the plan to supply these items.

ANSWER: All power and lighting in areas 1A, 1B, 2A and 2B are power from the panels in Electrical A120. Whether the alternate is selected or not, should not affect these panels or the power to the other areas.

20 DWA Question 20: The drawings indicate that the street lighting is supplied by the city and installed by RMP. RMP indicates that they only run power to the light poles. Who is responsible to install the pole base's and install the light poles?

ANSWER: Jennifer with Rocky Mountain Power informed us that they have an agreement with the city that RMP will install the light poles. If that is not the case, please plan on the city installing the light poles. We should only be required to install the conduit.

ITEMS:

05.01	See attached Civil Items
05.02	See attached Structural Items
05.03	See attached Mechanical Items
05.04	See attached Electrical Items
05.05	 00 0110 - Table of Contents Table of contents is updated to include new section 07 1713
05.06	 07 1713 – Bentonite Panel Waterproofing Due to water table located during latest site testing, this section has been added for the purpose of protecting the elevator shaft which will likely be submerged.
05.07	 07 5400 – Thermoplastic (KEE) Membrane Roofing Formerly 2.03 A - Removed vapor barrier from spec 2.03 D.1 - Added EPS foam crickets as acceptable alternate to poly-iso.

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05.08	 07 5419 – Single-ply PVC Thermoplastic Roofing 2.05 B – Added EPS foam crickets as acceptable alternate to poly-iso 2.05 - Added Quality Assurance paragraph to match section requirements found in 07 5400.
05.09	 08 4313 – Aluminum-framed Storefronts Removed doors E104A & E104B from thermal doors.
05.10	 08 8000 – Glazing 2.04-2.06 - Changed callouts from grey tint to clear glazing
05.11	 09 2119 – Gypsum Board Assemblies 3.03 Finish and Texture paragraph now added and clarifies design intent.
05.12	 A-114.4 – AREA D – REFLECTED CEILING PLAN Removed finish tag P1 in D108
05.13	 A-115.2 – PLAN – LEVEL 01 AREA E - ANNOTATION Frame Type X removed and corrected to Frame Type W
05.14	 A-411 – ENLARGED VIEWS D4 Soap Dispensers added and tagged. Accessories legend updated on item "E" to "wall mounted soap dispenser"
05.15	 A-416 – ENLARGED VIEWS A3 – Enlarged Plan keynotes for the tack boards and digital display have been corrected.
05.16	 A-418 – ENLARGED VIEWS A1 – Enlarged Plan keynotes corrected. A4 – Enlarged plan keynotes corrected. Keynotes and Accessories legend corrected.
Sheets:	

A-114.4 – AREA D – REFLECTED CEILING PLAN A-115.2 – PLAN – LEVEL 01 AREA E - ANNOTATION A-411 – ENLARGED VIEWS A-416 – ENLARGED VIEWS A-418 – ENLARGED VIEWS

Michael Rigby	5.28.24	
ISSUED BY Architect	Date	ACCEPTED BY Date Contractor



HPMS ADDENDUM #5

DATE:	May 28, 2024		
TO:	Michael Rigby Design West Architects		
	255 South 300 West	435.754.9366 C	
	Logan UT, 84321	435.752.7031 T	
FROM:	Jeremy Jensen		
	Cache-Landmark Engineering	435.770.3441 C	
	95 Golf Course Rd, Suite 101	435.713.0099 T	
	Logan, UT 84321	jjensen@cachelandmark.com	
PROJECT:	Hyde Park Middle School		
SUBJECT:	Addendum #5 – Bid Package #2		

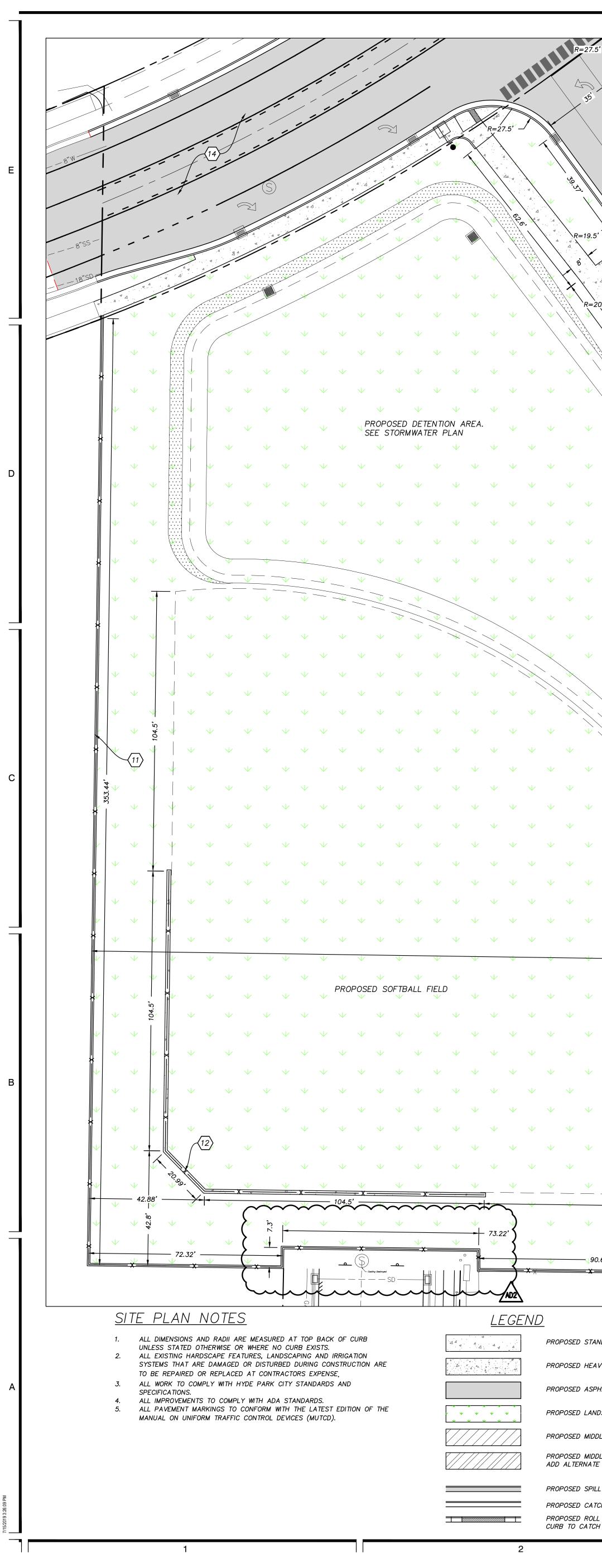
The following additions are provided for Bid Package #2 based on questions provided to the Owner/Architect/Engineers:

- 1. Civil Site Plan Northwest, Sheet C-202.
 - **a. ADDED** Bollards and concrete pad for proposed fire hydrant as shown on plan.
- 2. Civil Site Plan Northeast, Sheet C-204.
 a. ADDED Bollards and concrete pad for proposed fire hydrant as shown on plan
- 3. Civil Civil Details, Sheet C-501.
 - **a.** CLARIFICATION Detail #1: Structural fabric for bus parking area is to be included in Bid Package #1. Do not include in Bid Package #2.

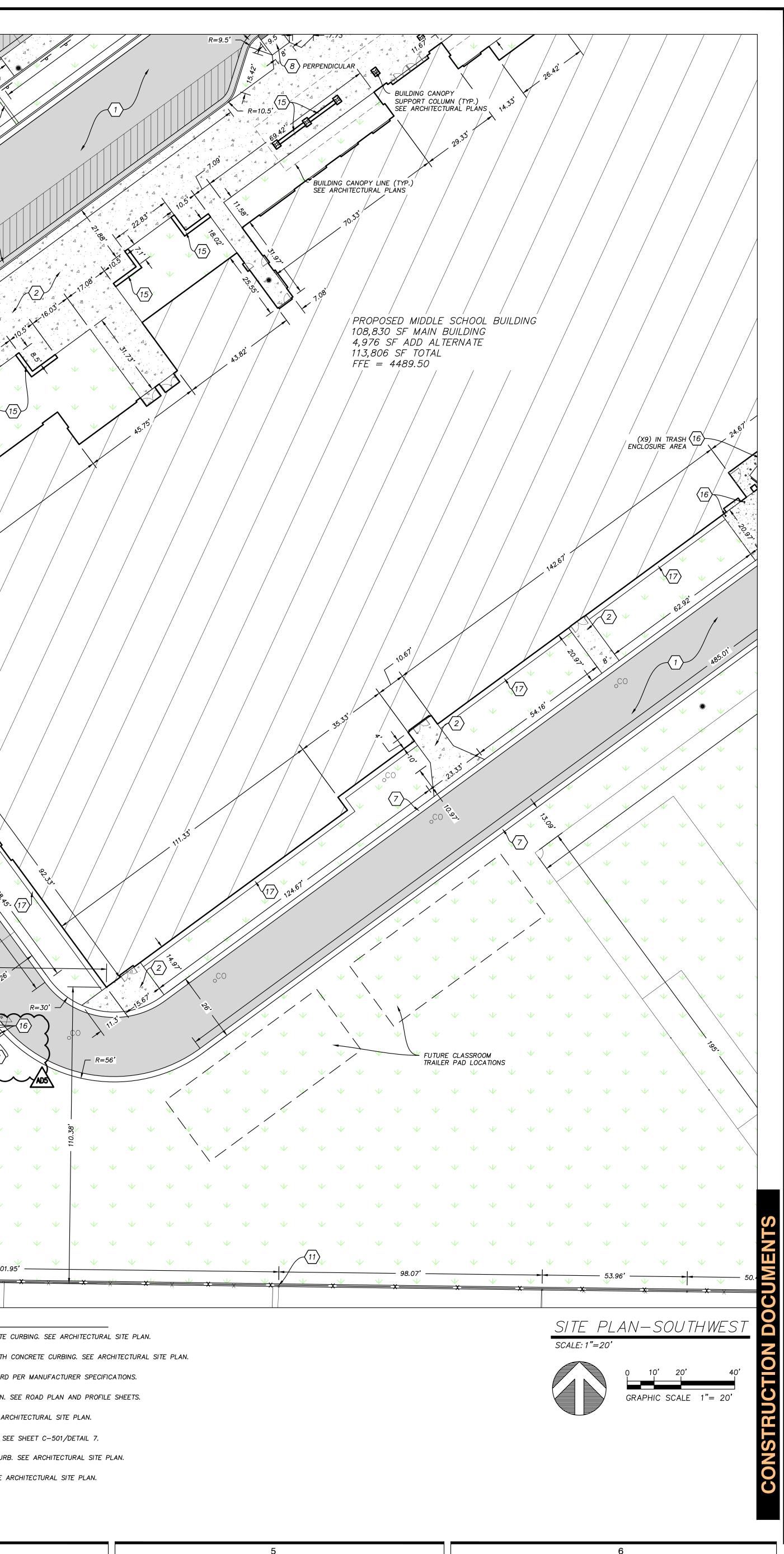
Addendum #5 is hereby issued on May 28, 2024 Cache-Landmark Engineering

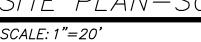
Jeremy Jensen E.I.T. Project Manager

Attachment - Civil Sheets C-202 and C-204



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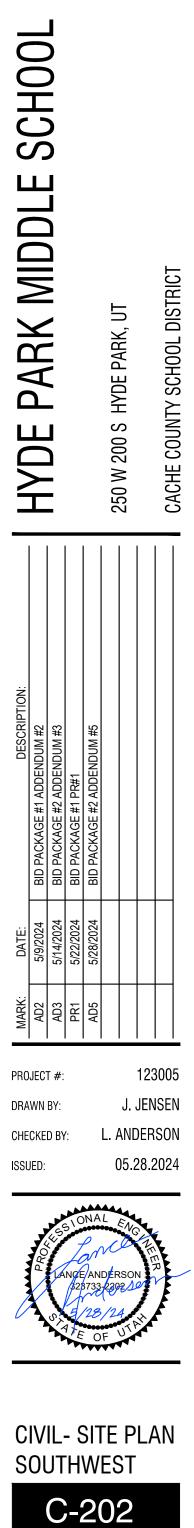


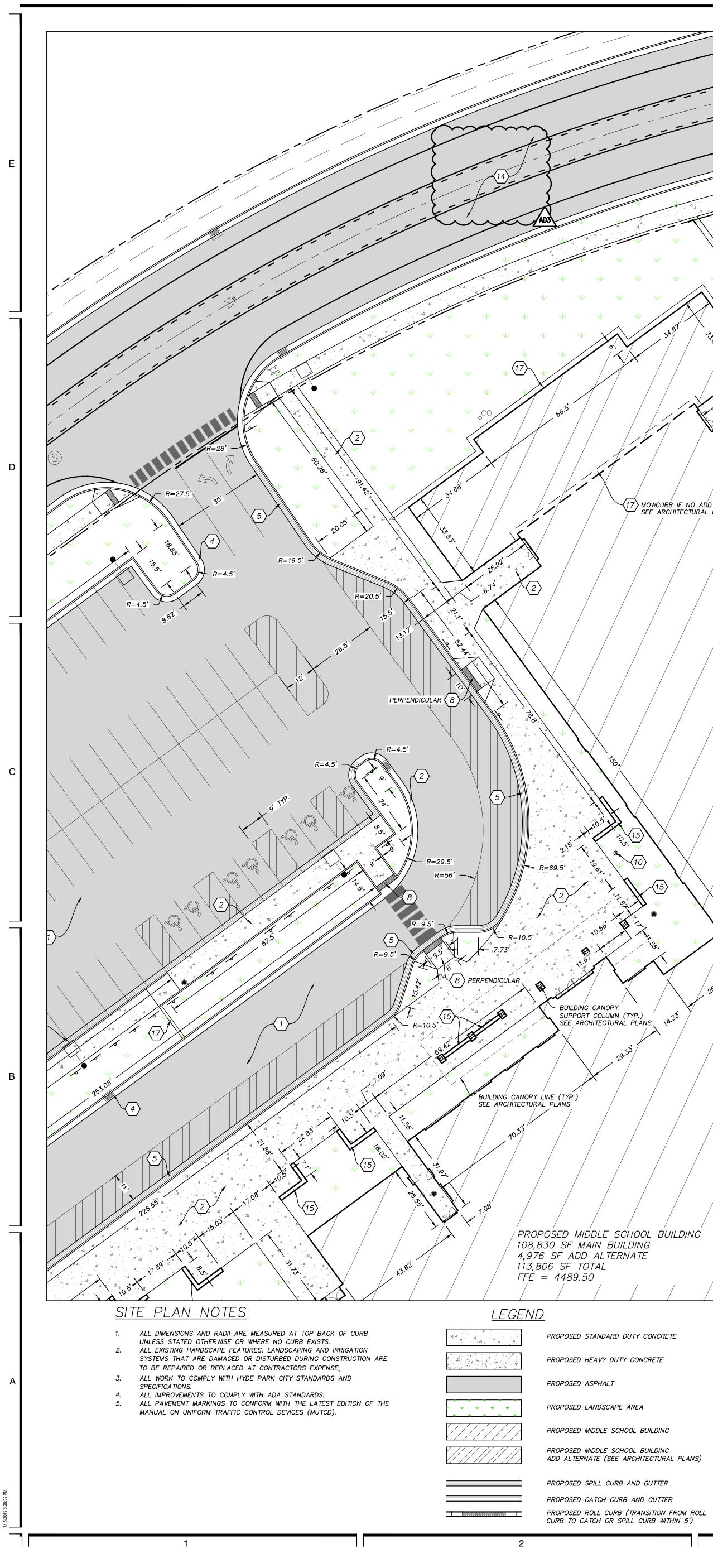












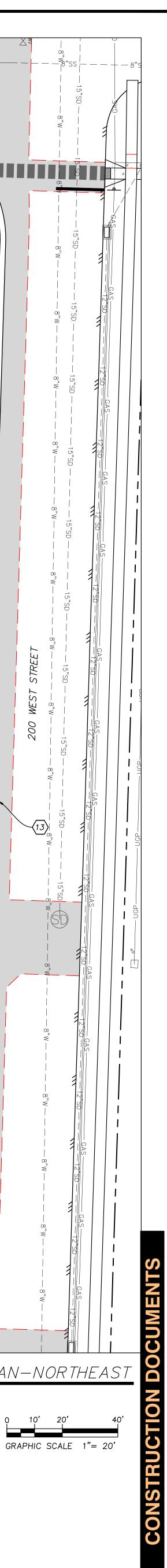
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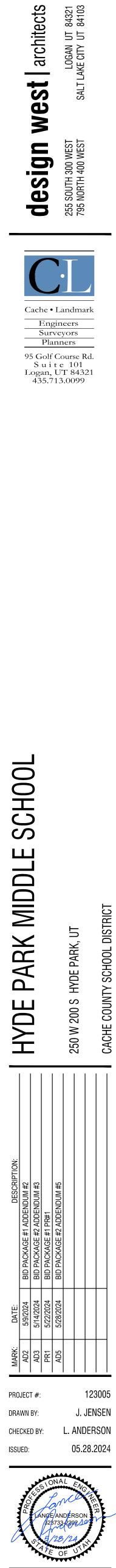
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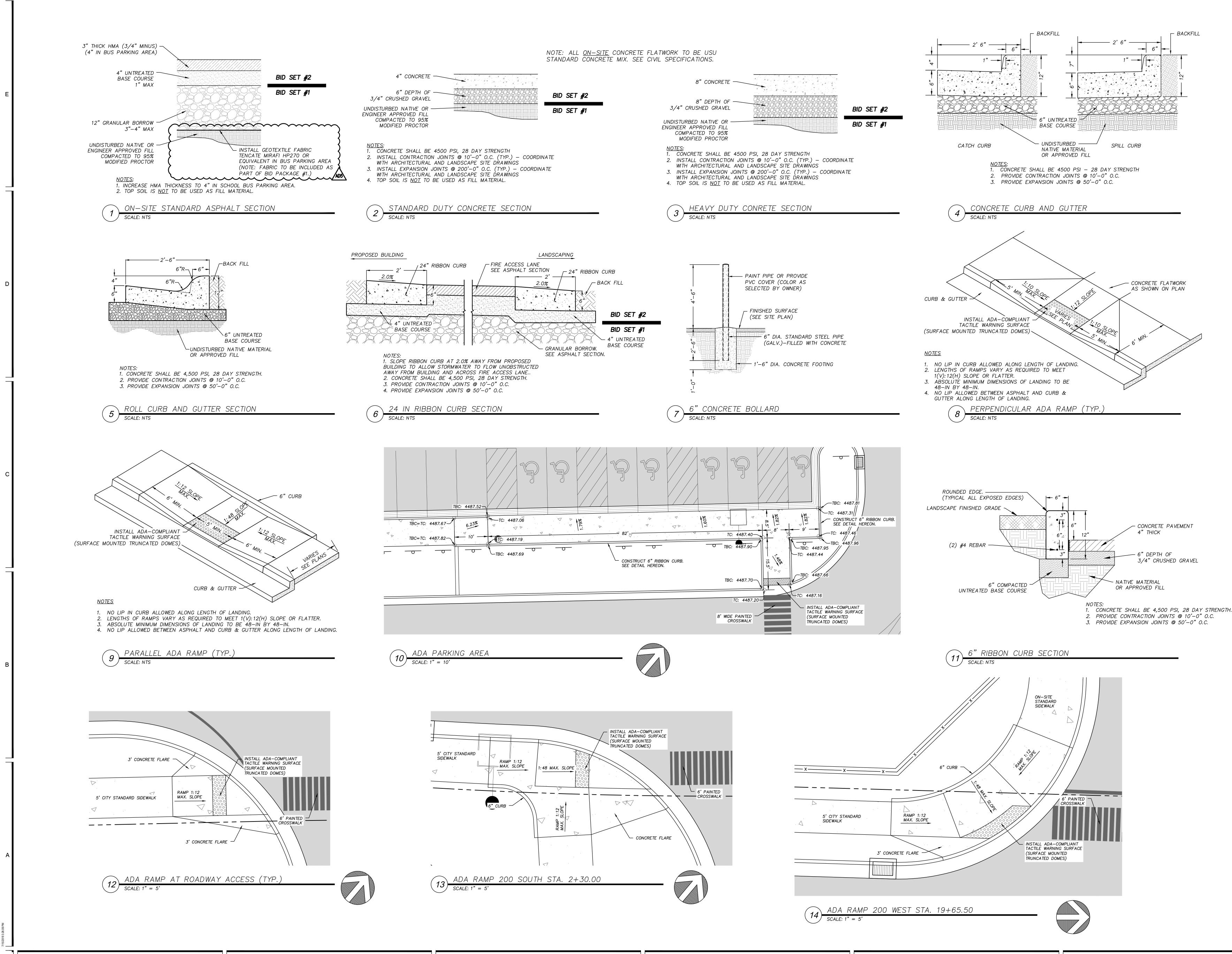
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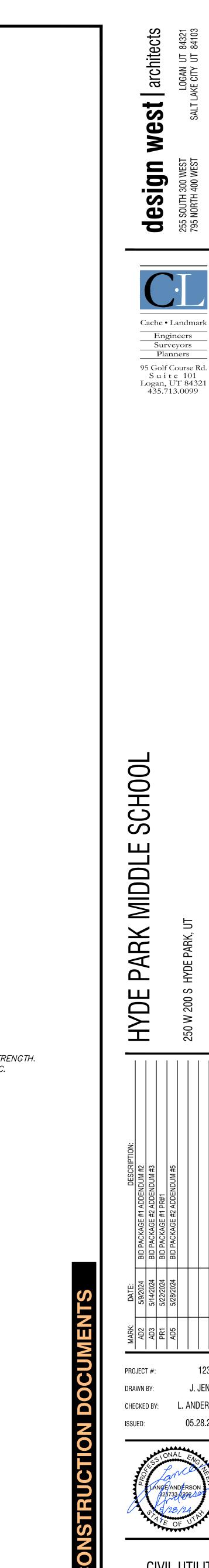
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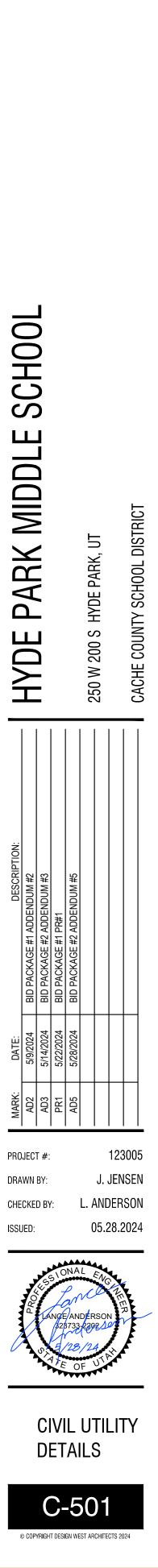












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MEMORANDUM

CCSD Middle Schools Cache County, UT () Telephone Josh Blazzard, SE	() Conference	() Field	Project No: 23914 Date: 5/28/2024 (X) Memo

RE: Addendum 5

Comments/Items Discussed:

Below is a description of items contained in Addendum #5:

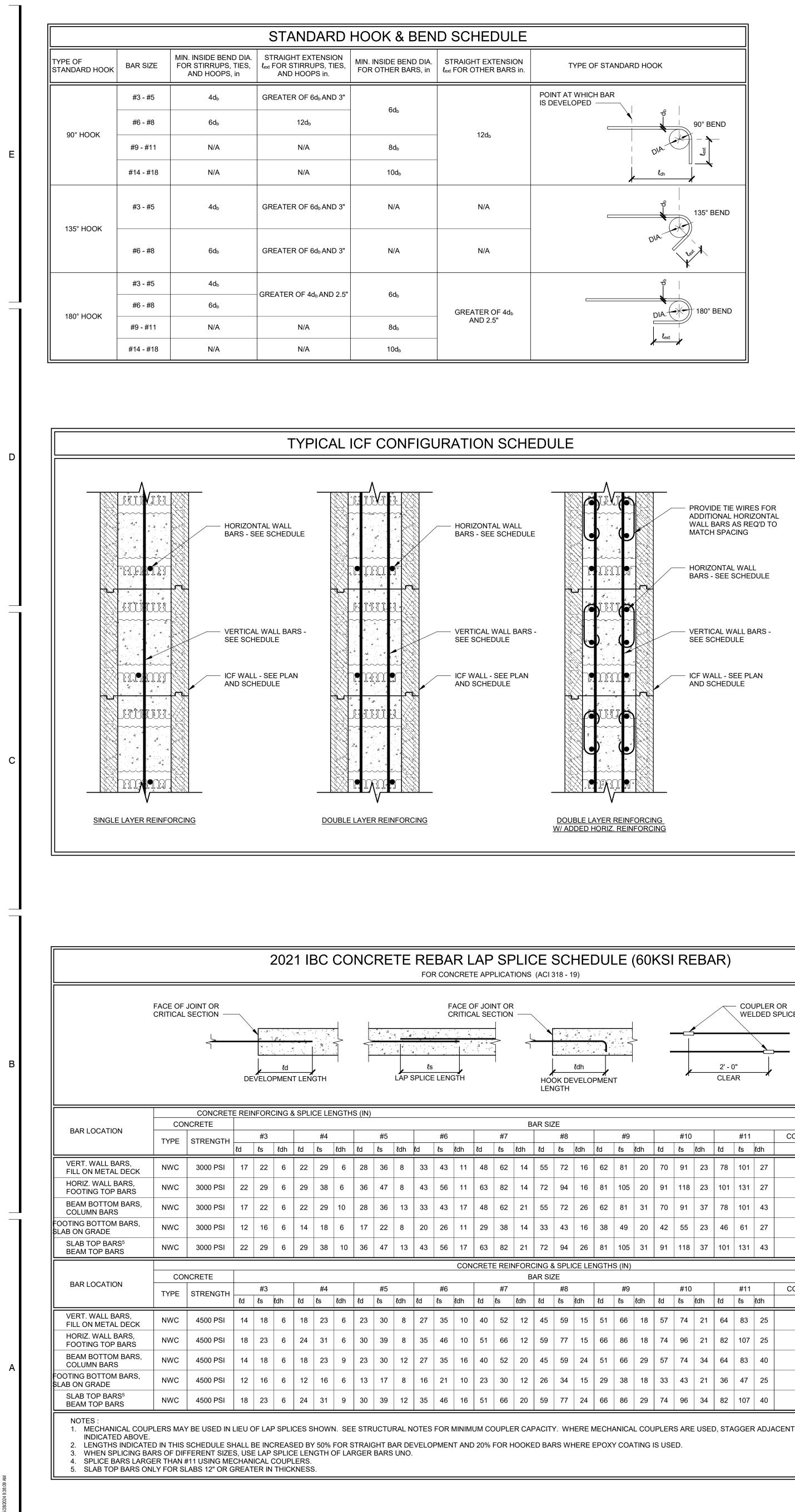
Sheet S-011:

1) The concrete wall schedule has been updated to include an option for 18" horizontal wall spacing.

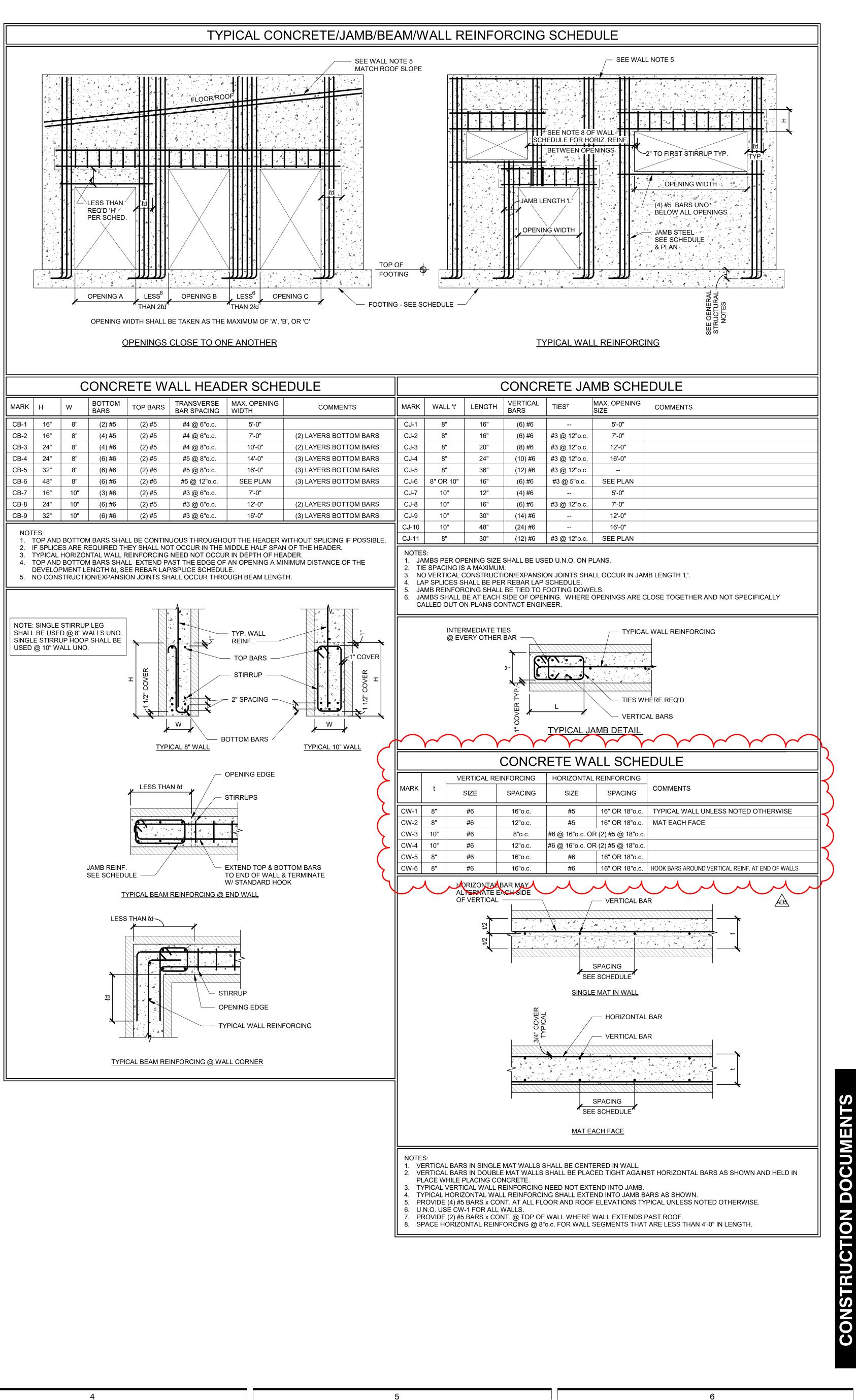
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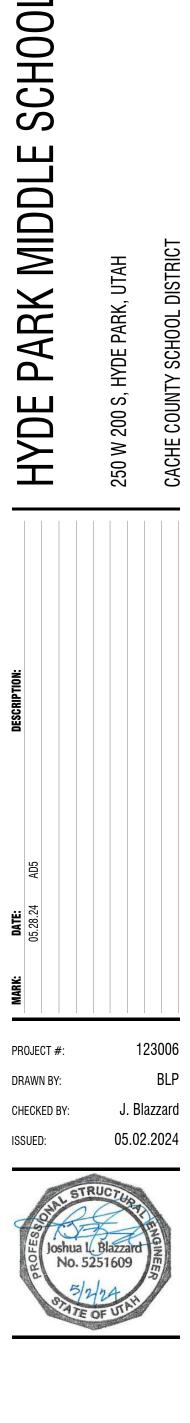
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	29	38	18	33	43	21	36	47	25	
	66	86	29	74	96	34	82	107	40	
	66 86 29 74 96 34 82 107 40 MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24" AS E EPOXY COATING IS USED.									











ADDENDUM 5

 DATE:
 May 28, 2024

 PROJECT NO:
 23717

PROJECT: Hyde Park and Nibley Middle Schools

The following revision, additions, deletions, and/or items of clarification shall hereby be included as an integral part of the Contract Documents for the above-listed project and shall be fully binding. All other requirements of the original plans and specification shall remain in effect in their respective order.

DIVISION - 21, 22 & 23

QUESTIONS

Can we get pipe sizing on the MP pages that are not indicated please?

A. Additional pipe sizes have been added. See attached.

Can we get the piping in a bolder print, so it is more legible please?

A. The drawings are meant to be printed in color. Please print drawings in color.

Spec section 21 1000,3.4G, states that 2" pipe and larger shall be threaded. Would it be possible to use grooved pipe for 2" and smaller?

A. Yes. This is noted in this addendum.

-Spec section 233113-15 3.12 B states that duct in areas with no ceilings needs to be double wall. Our experience with VBFA is that it is typically noted on the drawings where double wall K-27 duct is required. There are currently several places on the drawings where double wall duct is called out.

Is it the intent for all exposed duct to be double wall (even where not noted)? This would apply to places line the gym, cafeteria, CCA shop, etc.

A. No. The exposed medium pressure ductwork shall be double wall from the air handler to 20 feet down stream of the air handler. All other exposed ductwork shall be lined as specified.

DRAWINGS

SHEET - M601

- 1. Add note 2 to Air Handler Schedule as follows: 2. UNIT COMPLETE WITH 20" SEISMIC CURB AND EBTRON AIR FLOW MEASURING STATION ON THE OUTSIDE AIR INLET.
- 2. Add curb height of 18" to note 2 on Make-Up Air Handler Unit Schedule. See attached.
- 3. Add DL-1 to the Grilles, Registers and Diffusers schedule as shown. See attached.

SHEET - MP111.A

1. Modify piping as shown. See attached.

SHEET - MP111.B

1. Modify piping as shown. See attached.

SHEET - MP111.C

- 1. Add pipe size tag. See attached.
- 2. Modify piping as shown. See attached.

Page 2 of 3

SHEET - MP111.D

- 1. Add pipe size tag. See attached.
- 2. Modify piping as shown. See attached.

SHEET - MP111.E

- 1. Add pipe size tag. See attached.
- 2. Move pipe size tag for clarity. See attached.
- 3. Modify piping as shown. See attached.

SHEET - MP111.F

- 1. Modify piping as shown. See attached.
- 2. Add pipe size tag. See attached.

SHEET - MP112.A

1. Modify piping as shown. See attached.

SHEET - MP112.B

1. Modify piping as shown. See attached.

SHEET - MP112.C

1. Modify piping as shown. See attached.

SPECIFICATIONS

SECTION - 211000

2. Paragraph 3.4.G.1 changed from "2 and Smaller" to "1-1/4 and Smaller"

PRIOR APPROVALS

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established, and required for the complete and satisfactory installation and performance of the building and all its respective parts.

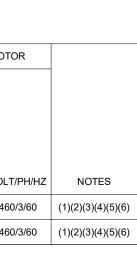
ltem	<u>Manufacturer</u>	<u>Comments</u>
Water Cooler Bottle Filler Emergency Shower Water Heater Water Treatment Cabinet Unit Heaters Boilers Unit Heaters Water Heaters VFD VFD	Oasis Oasis Chicago PVI Clear Water Sterling Commercial Hydronics Lochinvar Sterling Commercial Hydronics Lochinvar Eaton Danfoss	Not Approved Not Approved Approved Not Approved Not Approved Approved Not Approved Not Approved Not Approved Not Approved Approved
VFD Storage Tanks Piping Service Sink	Danfoss Lochinvar Niron Fiat	Approved Not Approved
Grease Interceptor Water Closets Urinals Lavatories Sensor Faucet Grease Interceptor HVAC Power Ventilators Fixed Extruded Aluminum Louvers Custom AHU	Schier Sloan Valve Co. Sloan Valve Co. Sloan Valve Co. Sloan Valve Co. Schier S&P United Enertech Scott Springfield	Approved Not Approved Not Approved Not Approved Not Approved Not Approved Not Approved Approved Approved Not Approved
		Not Approved

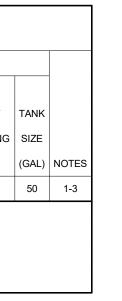
Page 3 of 3

Packaged indirect fired Outdoor MAU	Thermo Tek
Ductless Fan Coil Units	Mitsubishi
Electric Unit Heaters	Berko
Thermometers	Winters
Hydronic Piping Specialties	IFC
Expansion Tanks, Air Separators	Grundfos
Hydronic Heat Exchangers	Alfa Laval

Not Approved Approved Approved Approved Approved Approved Approved

7				
	AIR HANDLER SCHEDULE			
	$ \begin{array}{ c c c c c c c c } \hline AIR & COMPONENTS & ELECTRICAL & PHYSICAL & & & & & & & & & & & & & & & & & & &$			
	AND A) (IN) NOTES		
Е	RTU-1 DAIKIN OAH071GBCM AREA A,B 32403 SF-RTU-1, RF-RTU-1 CC-RTU-1, HC-RTU-1 120/1/60 420/136/100 16817 1,2 RTU-2 DAIKIN OAH082GBCM AREA A,B 37205 SF-RTU-1, RF-RTU-2 CC-RTU-2, HC-RTU-2 120/1/60 426/136/112 1814 1,2 RTU-2 DAIKIN OAH082GBCM AREA A,B 37205 SF-RTU-1, RF-RTU-2 CC-RTU-2, HC-RTU-2 120/1/60 426/136/112 1814 1,2 RTU-2 DAIKIN OAH082GBCM AREA A,B 37205 SF-RTU-1, RF-RTU-2 CC-RTU-2, HC-RTU-2 120/1/60 426/136/112 1814 1,2 RTU-2 DAIKIN OAH082GBCM AREA A,B 37205 SF-RTU-1, RF-RTU-2 CC-RTU-2, HC-RTU-2 120/1/60 426/136/112 1814 1,2 RTU-2 DAIKIN OAH082GBCM AREA A,B 37205 SF-RTU-1, RF-RTU-2 CC-RTU-2, HC-RTU-2 120/1/60 426/136/112 1814 1,2 RTU-2 DAIKIN OAH082GBCM AREA A,B 37205 SF-RTU-1, RF-RTU-2 CC-RTU-2, HC-RTU-2 120/1/60 426/136/112 1814 1,2 RTU-2 DAIKIN OAH082GBCM AREA A,B 3720	18/41.5 1		
	RTU-3 DAIKIN OAH082GBCM AREA C 34705 SF-RTU-1, RF-RTU-3 CC-RTU-3, HC-RTU-3 120/1/60 424/136/112 181t5 1,2 RTU-4 DAIKIN OAH045GBCM AREA D 21240 SF-RTU-1, RF-RTU-4 CC-RTU-4, HC-RTU-4 120/1/60 398/106/84 1150- 1,2 RTU-5 DAIKIN OAH008GBCM AREA D 3290 SF-RTU-1, RF-RTU-5 CC-RTU-5, HC-RTU-5 120/1/60 326/58/40 4170 1,2			
	RTU-6 DAIKIN OAH021GBCM AREA D 8856 SF-RTU-1, RF-RTU-6 CC-RTU-6, HC-RTU-6 120/1/60 356/82/58 6817 1,2 RTU-7 DAIKIN OAH025GBCM AREA E 10555 SF-RTU-1, RF-RTU-7 CC-RTU-7, HC-RTU-7 120/1/60 354/76/72 706 1,2			
	RTU-8 DAIKIN OAH018GBCM AREA F 8425 SF-RTU-1, RF-RTU-8 CC-RTU-8, HC-RTU-8 120/1/60 364/80/52 671/ 1,2 RTU-9 DAIKIN OAH071GBCM AREA F 30000 SF-RTU-1, RF-RTU-9 CC-RTU-9, HC-RTU-9 120/1/60 418/136/100 17231 1,2 RTU-9 DAIKIN OAH071GBCM AREA F 30000 SF-RTU-1, RF-RTU-9 CC-RTU-9, HC-RTU-9 120/1/60 418/136/100 17231 1,2			
	RTU-10 DAIKIN OAH020GBCM AREA F 8695 SF-RTU-1, RF-RTU-10 CC-RTU-10, HC-RTU-10 120/1/60 348/76/60 65/0 1,2 1. UNIT COMPLETE WITH 2 FILTERS: 2 2 4			
	2. UNIT COMPLETE WITH 20" SEISMIC CURB AND EBTRON AIR FLOW MEASURING STATION ON THE OUTSIDE AIR INLET. MAKE-UP AIR HANDLER UNIT SCHEDULE			
	AIR FLOW EXTERNAL ENTER/ ENTER/ INPUT MAX MAX AIR FLOW PRESSURE AIR TEMP. HEATING DIMENSIONS OPERATING			
	ID MANUFACTURER MODEL NO LOCATION CFM) CDEG. F) CDEG. F) CMBH)			
, ,	MAU-1 GREENHECK IGX-P116-H22-MF KITCHEN 2981 0.75 -20 287.7 233.1 NAT GAS 133 X 44 X 45 1700 YES 1.5 460/3/60 (1)(2)(3)(4)(5)(6) MAU-2 GREENHECK IGX-P116-H22-MF KITCHEN 2981 0.75 -20 287.7 233.1 NAT GAS 133 X 44 X 45 1700 YES 1.5 460/3/60 (1)(2)(3)(4)(5)(6)			
,	(1) ALL CAPACITIES BASED AT 4 800 FEET ELEVATION.			
	(3) SUPPLIED WITH VENT CAPAND COMBUSTION AIR OPENING. (4) INTERLOCK UNIT WITH KITCHEN HOOD CONTROL PANEL, DIV. 26.			
	(5) EQUIPPED WITH FACTORY MOUNTED STARTER & DISCONNECT. (6) TYPE UNIT: 100% OUTSIDE AIR ROOFTOP MAKE-UP AIR HANDLING UNIT, COMPLETE WITH THE FOLLOWING OPTIONS: A) DOWN DISCHARGE PLENUM.			
	B) STAINLESS STEEL HEAT EXCHANGER. C) MODULATING GAS VALVE DOWN TO 30% AND DUCT TEMPERATURE SENSOR. SET TEMPERATURE SENSOR AT 65 DEG-F LEAVING AIR TEMPERATURE.			
	D) EVAPORATIVE COOLER TO BLOWER FAN TRANSITION. E) FACTORY MOUNTED DISCONNECT.			
С	HYDRONIC BOILER SCHEDULE			
	FLUID ELECTRICAL PHYSICAL			
	Image: state stat			
	ID MODEL NUMBER LOCATION LOCATION TYPE TYPE (BTU/H) (CFH) (BTU/H) (FT) QUAN. (HP) VOLT/PH/HZ VOLT/PH/HZ (IN) (IN) NOTES B-1 CLEAVER-BROOKS CFC-E 5000 BOILER ROOM D135 COND, FORCED, DUAL RET NAT GAS 500000 5000 440000 282.4 126.7/160 30% PGLY 5 1 10.73 460/360 1201/60 1@14 80.6/58.7/93.6 1			
	B-2 CLEAVER-BROOKS CFC-E 5000 BOILER ROOM D135 COND, FORCED, DUAL RET NAT GAS 500000 5000 282.4 126.7/160 30% P GLY 5 1 10.73 460/3/60 120/1/60 1@14 80.6/58.7/93.6 1 I. ASME CERTIFIED	ID MANUFACTURE	R MODEL MAX NC	EGISTERS AND DIFFUSERS DESCRIPTION SQUARE PLAQUE FACE CEILING DIFFUSERS. REMOVABLE FACE, FRAME SHALL OR LAXIN MOUNTING AS REQUIRED BY CEILING TYPE LAXIN FRAMES SHALL B
		CD-1 PRICE		OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL E 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. COLOR AND FINISH ARCHITECT FROM STANDARD COLORS 2 SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND
	CHEMICAL FEED SYSTEM SCHEDULE Image: Second state of the system second state of	CD-2 PRICE	SDS 100 30	VANES FOR ONE OR TWO WAY THROW PATTERN. UNITS SHALL HAVE 1" SLOTS PLENUM WITH ROUND DUCT CONNECTION. FOR SURFACE OR LAY-IN MOUNTIN UNIT SHALL BE CURVED FACE FOR EXPOSED DUCT MOUNTING AS REQUIRED.
	MANUFACTURER IN TOTAL FILL PRESSURE IN LENGTH/ NPT TANK	CD-3 PRICE	SDS 100 30	3 SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND VANES FOR ONE OR TWO WAY THROW PATTERN. UNITS SHALL HAVE 1" SLOTS PLENUM WITH ROUND DUCT CONNECTION. FOR SURFACE OR LAY-IN MOUNTIN UNIT SHALL BE CURVED FACE FOR EXPOSED DUCT MOUNTING AS REQUIRED.
	ANDANDWORKINGVOLUMEPRESSURERATINGHEIGHTFITTINGSIZEIDMODEL NUMBERLOCATIONTYPEFLUID(GAL)(PSIG)VOLT/PH/ZALARM PANEL(IN)(IN)(GAL)NOTESCWT-01WEST CONDENSER WATER TREATMENTCHILLER ROOM C112CHEMICAL FEEDERWATER1688.440120/1/60108/36/661501-3	CD-4 PRICE	SDS 100 20	4 SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND VANES FOR ONE OR TWO WAY THROW PATTERN. UNITS SHALL HAVE 1" SLOTS PLENUM WITH ROUND DUCT CONNECTION. FOR SURFACE OR LAY-IN MOUNTIN
3	CWI-01 WEST CONDENSER WATER TREATMENT CHILLER ROOM C112 CHEMICAL FEEDER WATER 1688.4 4 0 120/1/60 108/36/66 1 50 1-3 1. PROVIDE THREE DOUBLE WALL CONTAINMENT POLY TANKS: (1) SCALE INHIBITOR, (2) BIOCIDE, ONE INJECTION PUMP PER TANK MOUNTED ON SS SHELF ABOVE TANKS 1 50 1-3			UNIT SHALL BE CURVED FACE FOR EXPOSED DUCT MOUNTING AS REQUIRED.
	2. WALL MOUNTED CONTROLLER. SOLIDS SEPARATOR BLOW DOWN SHALL BE CONTROLLED BY TOWER TREATMENT CONTROLLER 3. ESTIMATED WEIGHT: 50 LBS.	DL-1 PRICE		VARIABLE VOLUME, STEEL FRAME, ALUMINUM VANES AND DRUM. MOUNTING F SUNK HOLES FOR DUCT MOUNTING. ADJUSTABLE THROUGH 60 DEGREES. EXTERNAL DRAFT VENT, ALL AN UNING STRUCTION, OLEAR ANODICED F
		RG-1 PRICE	PDDR 30	PERFORATED FACE RETURN AIR UNIT, REMOVABLE FACE & CORE. FRAME SHA OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. AIR QUANTI ROOM SUPPLY OR EXHAUST AIR QUANTITY. COLOR AND FINISH AS SELECTED
	WATER-COOLED CHILLER SCHEDULE FLUID ELECTRICAL	RG-2 PRICE	90 30	HEAVY DUTY RETURN GYM GRILLE. PERFORATED FACE RETURN AIR UNIT, REN CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY STEEL OPPOSED BLADE DAMPER. INCLUDING 30° BLADE DEFLECTION.
	Image: Note of the state of	EG-1 PRICE	80 30	CRATE TYPE CEILING EXHAUST AIR UNIT, WITH OBD. REMOVABLE FACE AND C BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY- 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAIL/ HAVE 1/2" x 1/2" x 1/2" SQUARES.
	MANUFACTURER Manufacturer <th< td=""><td>SWE-1 PRICE SWR-1 PRICE</td><td>535 30</td><td>SIDEWALL RETURN AIR GRILLE. HORIZONTAL STATIONARY 45° DEFLECTION VA INCH CENTER. COLOR AND FINISH AS SELECTED BY ARCHITECT SIDEWALL RETURN AIR GRILLE. HORIZONTAL STATIONARY 45° DEFLECTION VA INCH CENTER. COLOR AND FINISH AS SELECTED BY ARCHITECT</td></th<>	SWE-1 PRICE SWR-1 PRICE	535 30	SIDEWALL RETURN AIR GRILLE. HORIZONTAL STATIONARY 45° DEFLECTION VA INCH CENTER. COLOR AND FINISH AS SELECTED BY ARCHITECT SIDEWALL RETURN AIR GRILLE. HORIZONTAL STATIONARY 45° DEFLECTION VA INCH CENTER. COLOR AND FINISH AS SELECTED BY ARCHITECT
	ID MODEL NUMBER LOCATION TYPE REFRIG (TONS) DESCRIPTION (GPM) (°F) FLUID (FT) KW MCA MOCP (KW/TON) RATING VOLT/PH/Z (IN) NOTES CH-1 CARRIER 19MV-21L21K259235 CHILLER RM MAG BEARING R513A 270 EVAPORATOR 686.9 54/44 30% P GL Y 150 252 450 0.5330 (NPLV) 460/360 - 120/160 158/52/100 1-7	SWS-1 PRICE	520 30	DOUBLE DEFLECTION HIGH SIDEWALL SUPPLY REGISTER. VERTICAL FRONT W REAR DEFLECTION ADJUSTABLE VANES SPACED AT 3/4 INCH O.C. COMPLETE V REMOVABLE CORE. COLOR AND FINISH AS SELECTED BY ARCHITECT.
	1. WITH FACTORY SOUND ATTENUATION, STARTER AND DISCONNECT	SWS-2 PRICE	HCD1 30	DRUM LOUVER SUPPLY GRILLE WITH ROTATABLE DRUM HAVING MECHANISM T VARIABLE VOLUME, STEEL FRAME, ALUMINUM VANES AND DRUM. MOUNTING F SUNK HOLES FOR DUCT MOUNTING. ADJUSTABLE THROUGH 60 DEGREES.
	2. UNIT WITH MODULATION CAPACITY DOWN TO 15% OF MAXIMUM LOAD AND RUN AT 55 CHWS AND 59 CHWR 3. UNIT WITH FACTORY VSD/DISCONNECT, FILTER, BACNET NETWORK INTERFACE CARD	2. PROVIDE RG-1 FOR ALL CEIL	ING SUPPLY DIFFUSERS UNLESS NOT ING RETURN GRILLES UNLESS NOTED ING EXHAUST GRILLES UNLESS NOTE	OTHERWISE.
	4. MINIMUM EVAPORATOR FLOW = 350 GPM, CONDENSER = 375.4 GPM. 5. UNIT COMPLETE WITH ECONOMIZER.			
А	6. UNIT WITH INLET GUIDE VANES, VFD AND MAGNETIC BEARING COMPRESSORS 7. PROVIDE WITH MARINE BOX ON CONDENSER WATER INLET.			
5iza.				





3

				AIR						HYDRO	NIC			PHYSIC	CAL		
							ENTERING	LEAVING			ENTERING/				MINIMUM	MINIMUM NO.	
	MANUFACTURER			AIRFLOW		SENSIBLE	TEMP.	TEMP.	STATIC	FLOW	LEAVING		HEAD		FACE	ROWS/	
	AND			RATE	LOAD	LOAD	DB/WB	DB/WB	PRESSURE	RATE	TEMP.	WORKING	LOSS	NO.	AREA	FINS PER	
ID	MODEL NUMBER	LOCATION	USAGE	(CFM)	(BTU/H)	(BTU/H)	(°F)	(°F)	(IN. H2O)	(GPM)	(°F)	FLUID	(FT)	COILS	(FT²)	INCH	NOT
CC-RTU-1	DAIKIN	RTU-1	COOLING	32403	992870	889533	81.8/62.2	51.8/50.6	0.57	170.7	42/54.1	30% P GLY	16.3	2	66.62	6/10	
CC-RTU-2	DAIKIN	RTU-2	COOLING	37205	1131106	1005771	81.4/62.2	51.9/50.7	0.56	194.1	42/54.2	30% P GLY	15.8	2	76.88	6/10	
CC-RTU-3	DAIKIN	RTU-3	COOLING	34705	1063615	965902	82.5/62.2	52.1/50.6	0.47	187.6	42/53.8	30% P GLY	14.9	2	76.88	6/9	
CC-RTU-4	DAIKIN	RTU-4	COOLING	21240	720509	620259	83.8/63.7	51.9/51.2	0.67	127.5	42/53.8	30% P GLY	10.2	2	42.62	6/12	
CC-RTU-5	DAIKIN	RTU-5	COOLING	3290	93487	81263	79/61.8	52/51.1	0.46	15.9	42/54.2	30% P GLY	12.5	1	7.5	5/12	
CC-RTU-6	DAIKIN	RTU-6	COOLING	8856	278770	246816	82.3/62.6	51.9/50.8	0.46	47.5	42/54.2	30% P GLY	14.6	1	20.12	5/12	
CC-RTU-7	DAIKIN	RTU-7	COOLING	10555	262590	240695	76.6/60	51.7/50.3	0.46	46.8	42/53.7	30% P GLY	9.7	2	23.62	6/9	
CC-RTU-8	DAIKIN	RTU-8	COOLING	8425	257842	235773	82.4/62	51.8/50.4	0.62	44.8	42/54	30% P GLY	12.3	1	16.75	8/7	
CC-RTU-9	DAIKIN	RTU-9	COOLING	30000	933250	830187	82.4/62.5	52.2/50.8	0.46	165.3	42/53.8	30% P GLY	15.3	2	66.62	6/9	
CC-RTU-10	DAIKIN	RTU-10	COOLING	8695	245623	229421	80.6/61	51.8/50.1	0.5	43.8	42/53.7	30% P GLY	14	1	18.38	6/9	
HC-RTU-1	DAIKIN	RTU-1	HEATING	23885	451084	451084	39.5	60.1	0.09	23.6	160/119.8	30% P GLY	3.3	2	65	1/8	
HC-RTU-2	DAIKIN	RTU-2	HEATING	32960	691642	691642	37.4	60.3	0.12	35.9	160/119.4	30% P GLY	6.3	2	70	1/11	
HC-RTU-3	DAIKIN	RTU-3	HEATING	27108	703424	703424	31.5	59.8	0.19	37.2	160/120.2	30% P GLY	4.5	2	70	1/12	
HC-RTU-4	DAIKIN	RTU-4	HEATING	21240	578538	578538	30.6	60.3	0.14	30.1	160/119.5	30% P GLY	1.5	2	41.25	2/7	
HC-RTU-5	DAIKIN	RTU-5	HEATING	3290	28421	28421	50.6	60	0.14	2	160/129.9	30% P GLY	0.2	1	4.38	1/7	
HC-RTU-6	DAIKIN	RTU-6	HEATING	8230	190387	190387	34.6	59.9	0.07	10	160/119.9	30% P GLY	3.6	1	19.25	1/7	
HC-RTU-7	DAIKIN	RTU-7	HEATING	6950	76391	76391	50	62	0.11	4.3	160/122.5	30% P GLY	0.3	1	16.25	1/6	
HC-RTU-8	DAIKIN	RTU-8	HEATING	4645	144102	144102	26.7	60.6	0.13	7.1	160/117.4	30% P GLY	2.7	1	16	1/6	
HC-RTU-9	DAIKIN	RTU-9	HEATING	30000	1450254	1450254	36.8	89.6	0.15	76.8	160/120.3	30% P GLY	3	2	65	2/10	
HC-RTU-10	DAIKIN	RTU-10	HEATING	8540	353636	353636	44.5	89.7	0.17	19.3	160/121.5	30% P GLY	3.3	1	17.5	2/9	

			╞		-	5	5 5 5		0
		FLUID FLUID FLOW RATE (GPM) 810		60.6 89.6	60.3 59.8 60.3 60	i1.9/50.8 i1.7/50.3 i1.8/50.4 i2.2/50.8 i1.8/50.1 60.1	51.8/50.6 51.9/50.7 52.1/50.6 51.9/51.2 52/51.1	EAVING TEMP. DB/WB (°F)	
		OWER ENTERING LEAVING TEMP. (°F) 90/80	MANUFACTUF AND MODEL NUME AXIOM NT2	0.13	0.12 0.19 0.14 0.14	0.46 0.62 0.46 0.5	0.57 0.56 0.47 0.67	PRESSURE	COILS
		SCH work FLU WAT	RER BER 5 B(7.1	35.9 37.2 30.1 2	46.8 44.8 165.3 43.8	170.7 194.1 187.6 127.5	FLOW	SCHE
		IEDULE INLET/ OUTLET HEAD LOSS ID (FT)	LOCATION DILER ROOM I	160/117.4 160/120.3	160/119.4 160/120.2 160/119.5 160/129.9	42/53.7 42/54 42/53.8 42/53.7	42/54.1 42/54.2 42/53.8 42/53.8	ENTERING/ LEAVING TEMP.	EDULE
		ELECTRIC MOTOR QUAN.	QTY D135 1	30% P GLY 30% P GLY	30% P GLY 30% P GLY 30% P GLY 30% P GLY	30% P GLY 30% P GLY 30% P GLY 30% P GLY	30% P GLY 30% P GLY 30% P GLY		
		DAL, FAN MOTOF SIZE (HP)	TYP	2.7	6.3 4.5 1.5 0.2	9.7 12.3 15.3 14	16.3 15.8 14.9 10.2	LOSS	
		R MOTO SPEE (RPM	E (E	1	2 2 2 1	2 1 2 1	2 2 2 2	NO.	
None Image: Street in the		DR COI ED CIF	NPUT OAD EF 3TU/H)	16 65	70 70 41.25 4.38	23.62 16.75 66.62 18.38	66.62 76.88 76.88 42.62	MINIMUM FACE AREA	
		DWER AND NTROL RCUIT T/PH/HZ	E DEVICE FICIENCY (%) 96	1/6 2/10	1/11 1/12 2/7 1/7	6/9 8/7 6/9 6/9	6/10 6/10 6/9 6/12	NO. ROWS/ FINS PER	
		PHYSICAL OPERATIN WEIGHT (LB)	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN) 17.5/13.5/8						
NOTITES INCITE INCIT		G W	FITTING (IN) 1						
ACCHE COUNTY SCHOOL DISTRICT CACHE COUNTY SCHOOL DISTRICT CACHE COUNTY SCHOOL DISTRICT CACHE COUNTY SCHOOL DISTRICT		'IDTH/ EIGHT (IN)							
ANDE PARK MIDDLE SCHOOL ANDE PARK MIDDLE SCHOOL 255 SOUTH 300 WEST 250 W 200 S HYDE PARK, UTAH 250 W 200 S HYDE PARK, UTAH CACHE COUNTY SCHOOL DISTRICT CACHE COUNTY SCHOOL DISTRICT									
40 W. Cache Valley B Building 1, Suite B Logan, UT O: (435)752-5081 www.bfa.com VBFA Project #: 2371	DESCRIPTION:	,DE		VBFA			hacin		
Suite B 2-5081 om ct #: 2371		0 W 200 S HYDE PARK, UTAH		www.vbfa.c	់ Building 1, S Logan, UT		255 SOUTH 300 WI 795 NORTH 400 WI	SAL	DGAN CITY
		CHE COUNTY SCHOOL DISTRICT		om	uite B				

COOLIN

						FLUID				ELECTRI	CAL, FAN			PHYSIC
									INLET/				TOWER	
					AMBIENT		ENTERING/		OUTLET				AND	
	MANUFACTURER			FAN	TEMP.	FLOW	LEAVING		HEAD		MOTOR	MOTOR	CONTROL	OPERA
	AND			AIRFLOW	DB/WB	RATE	TEMP.	WORKING	LOSS	MOTOR	SIZE	SPEED	CIRCUIT	WEIG
ID	MODEL NUMBER	LOCATION	TYPE	(CFM)	(°F)	(GPM)	(°F)	FLUID	(FT)	QUAN.	(HP)	(RPM)	VOLT/PH/HZ	(LB
CT-01 CELL A	EVAPCO AT 19-2J9	MECH. YARD	OPEN, COUNTERFLOW, AXIAL	50800	95/96	810	90/80	WATER	5	1	15	1750	460/3/60 - 120/1/60	709

1. UNIT PROVIDED WITH LOW SOUND FAN.

2. BASIN SHALL BE ALL 304 STAINLESS STEEL CONSTRUCTION.

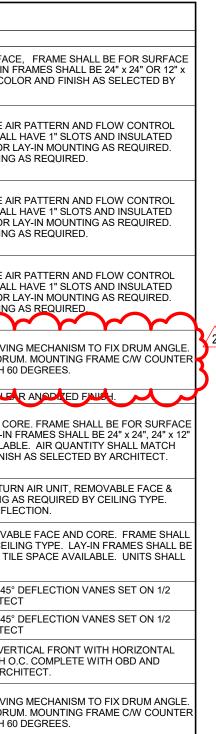
3. PROVIDE BASIN PLATFORM, LADDERS, LADDER EXTENSIONS AS REQUIRED.

4. PROVIDE WITH VIBRATION SWITCHES.

5. UNIT COMLPETE WITH A 10 KW, 480V/3PH SUMP HEATER. PROVIDE TRANSFORMER FOR A CONTROL O

6. TOWER SITS ON SUPPORT. SEE STRUCTURAL DRAWINGS.

7. UNIT COMPLETE WITH SUMP SWEEPER PIPING, MINIMUM SWEEPER FLOW RATE 89 GPM AT 20 PSI.



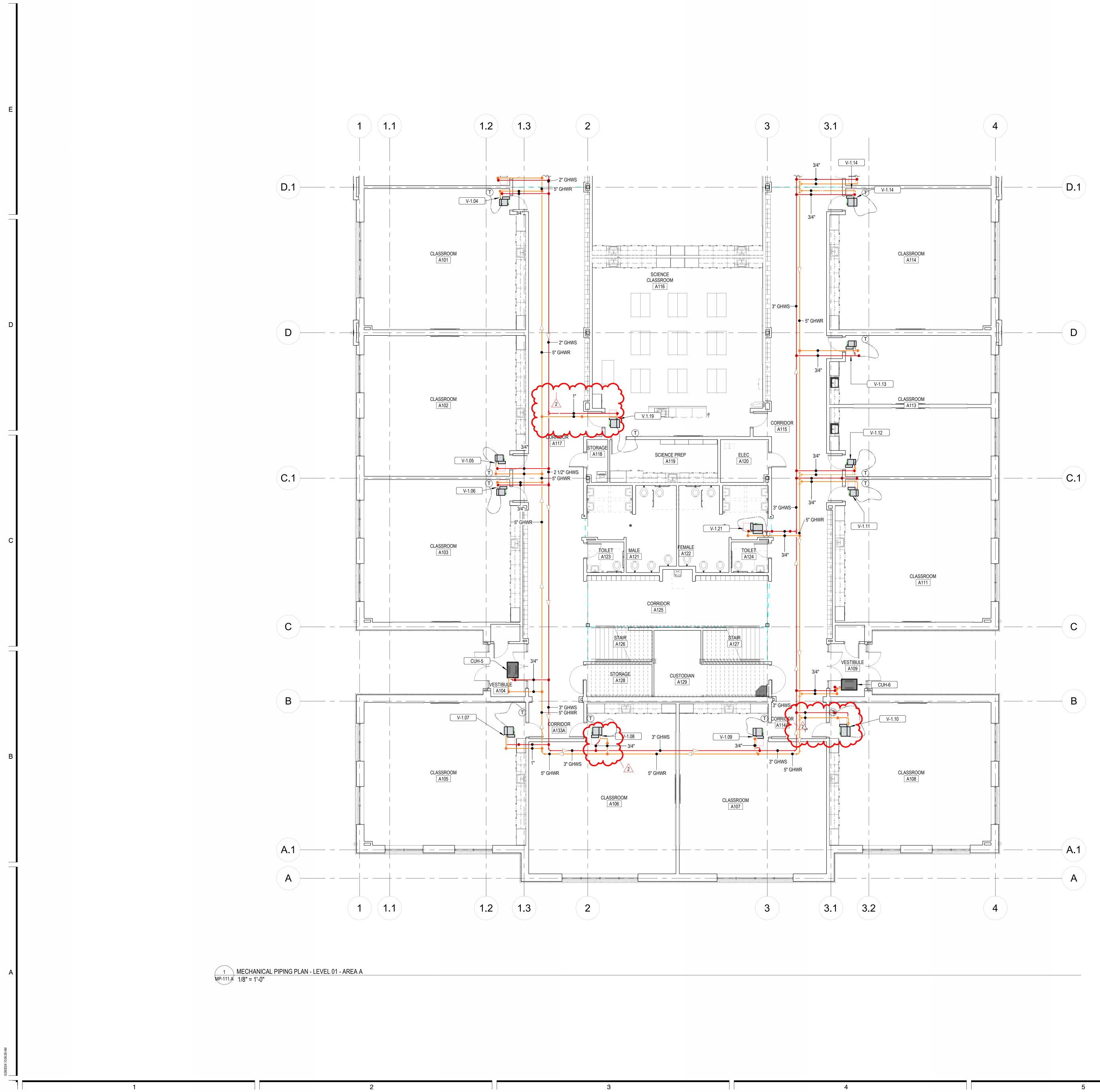
				FLUID					PHYSI	CAL
					MIN. TANK/	MINIMUM	MAXIMUM	RELIEF		
	MANUFACTURER				ACCEPTANCE	FILL	WORKING	VALVE	TANK	[
	AND			WORKING	VOLUME	PRESSURE	PRESSURE	PRESSURE	SIZE	Н
ID	MODEL NUMBER	LOCATION	TYPE	FLUID	(GAL)	(PSIG)	(PSIG)	(PSIG)	(GAL)	
ET-CHW-01	TACO CA300-125	CHILLER ROOM C112	VERT, BLADDER, FULL	30% P GLY	64.3/33.8	19.2	54	60	79	2
ET-HW-1	TACO CA800-125	BOILER RROM D135	VERT, BLADDER, FULL	30% P GLY	192.9/101.3	19.2	54	60	211	3

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6

M-601

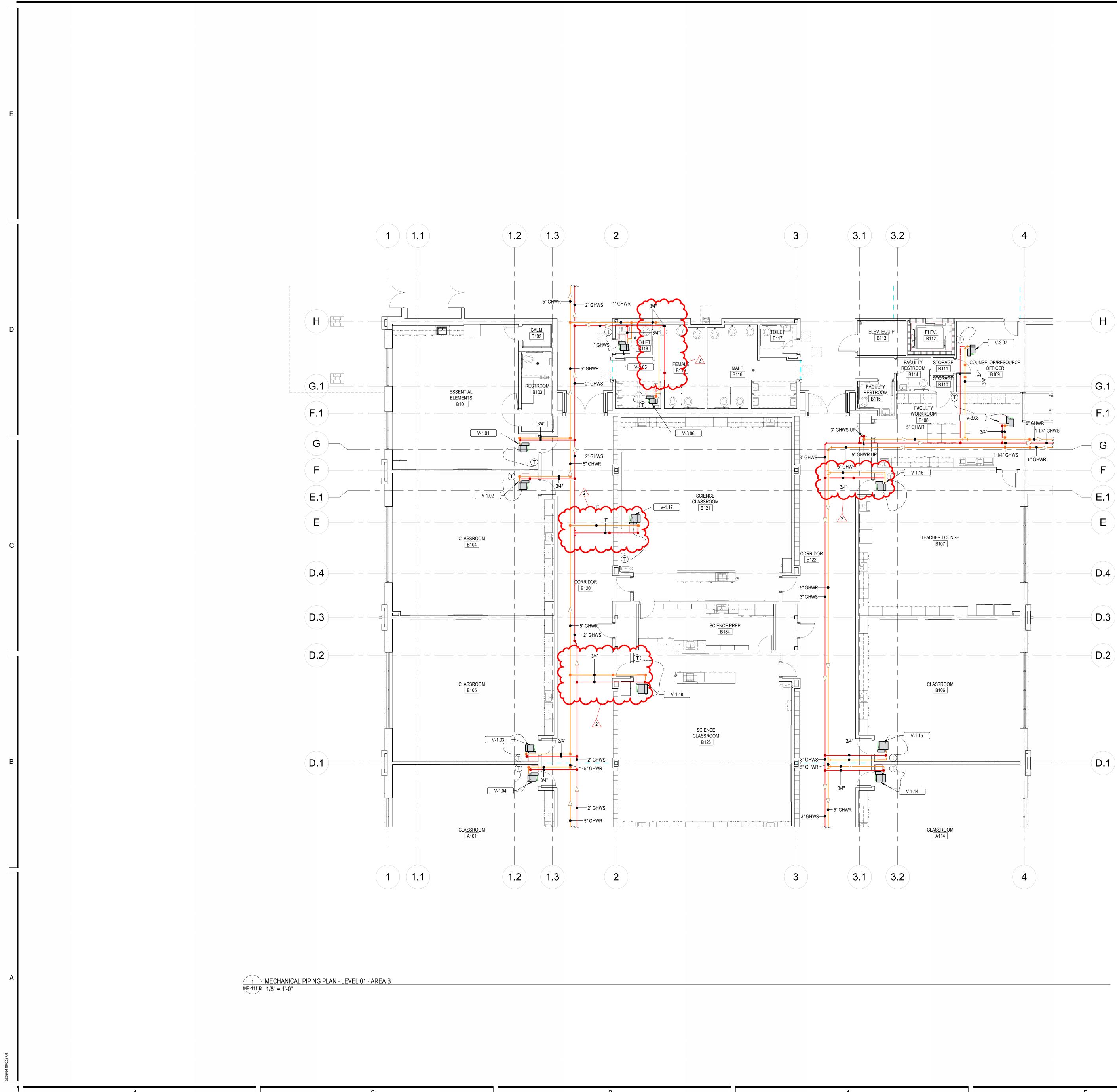
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KEY PLAN

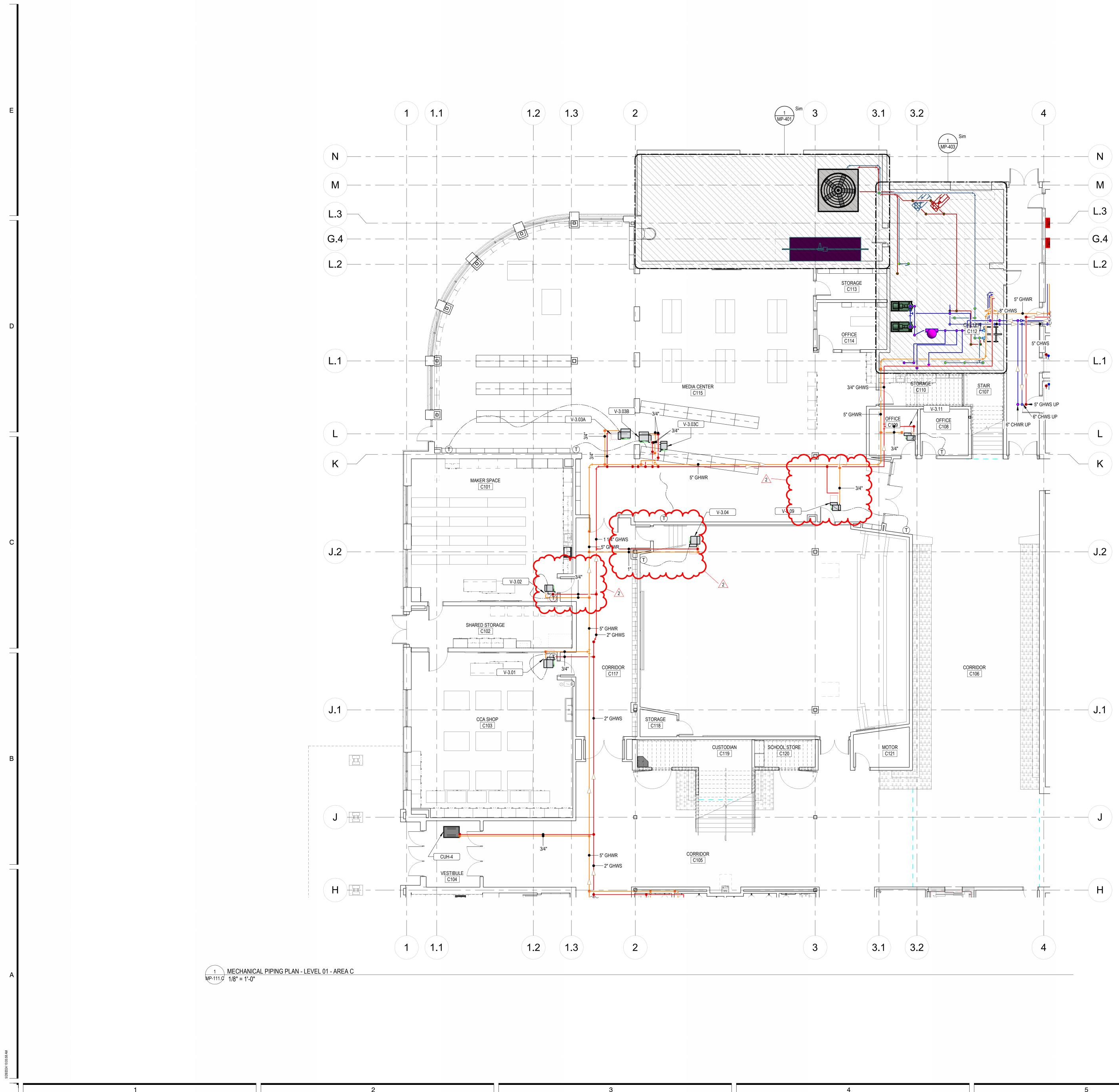






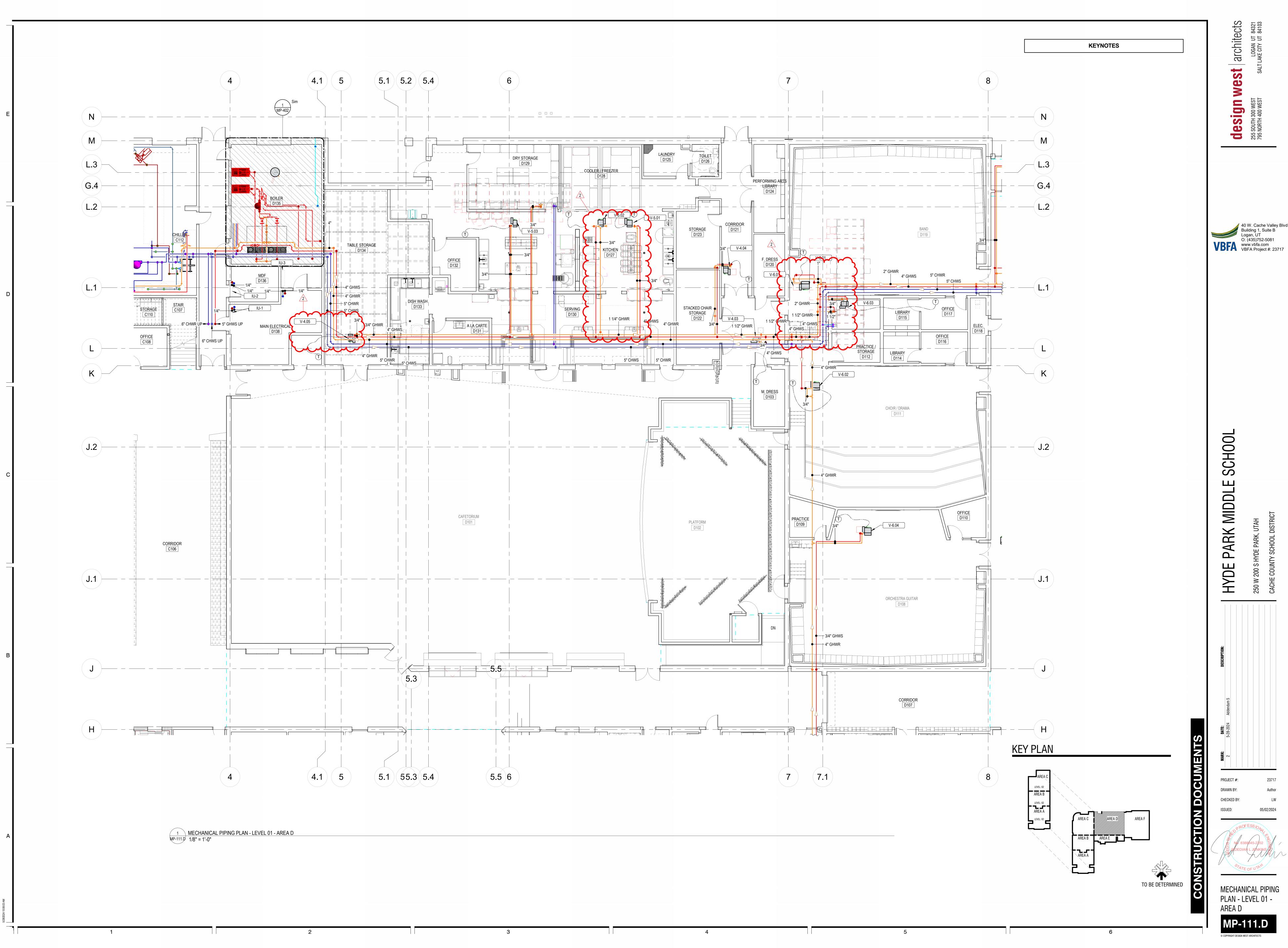
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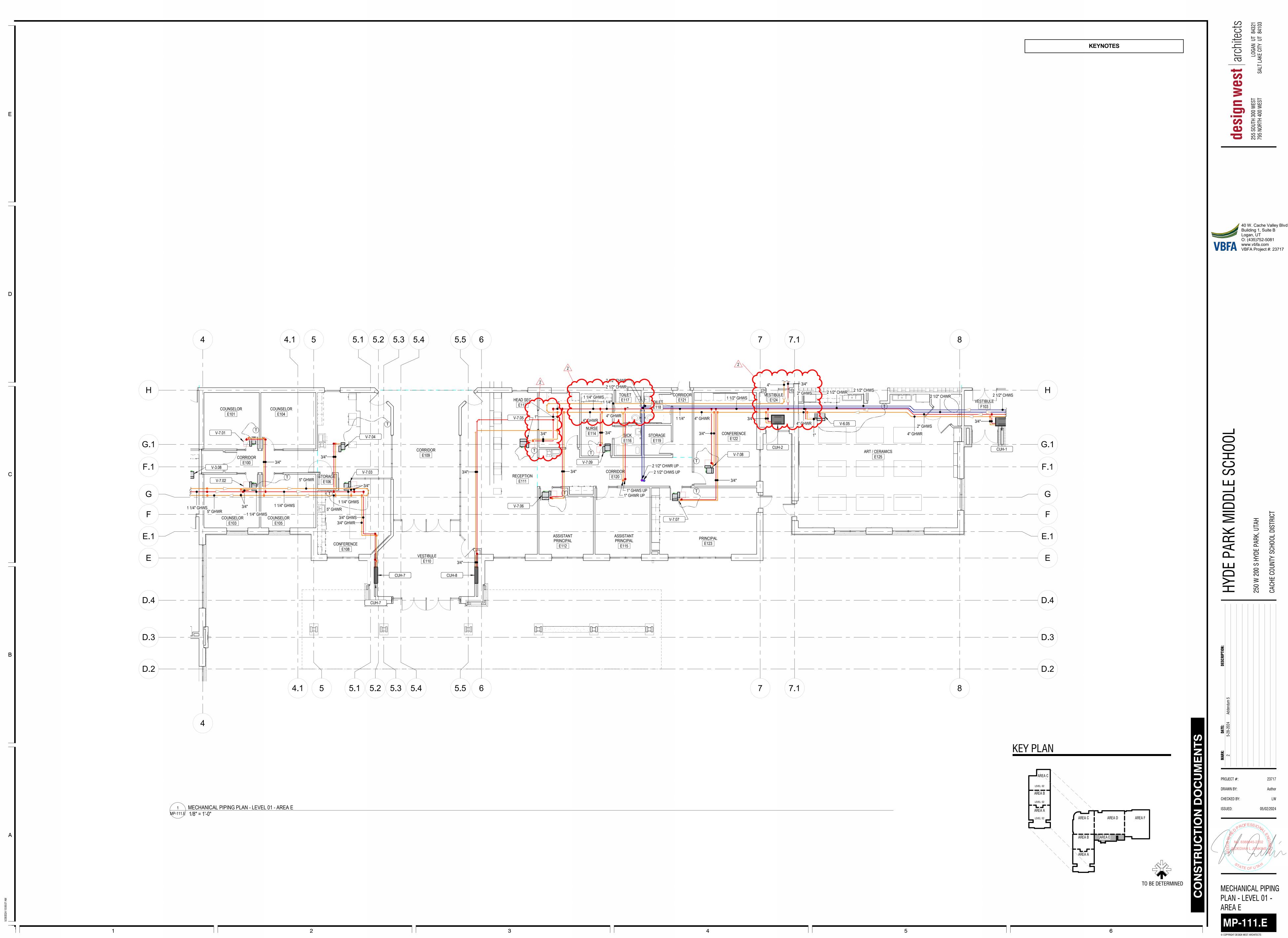


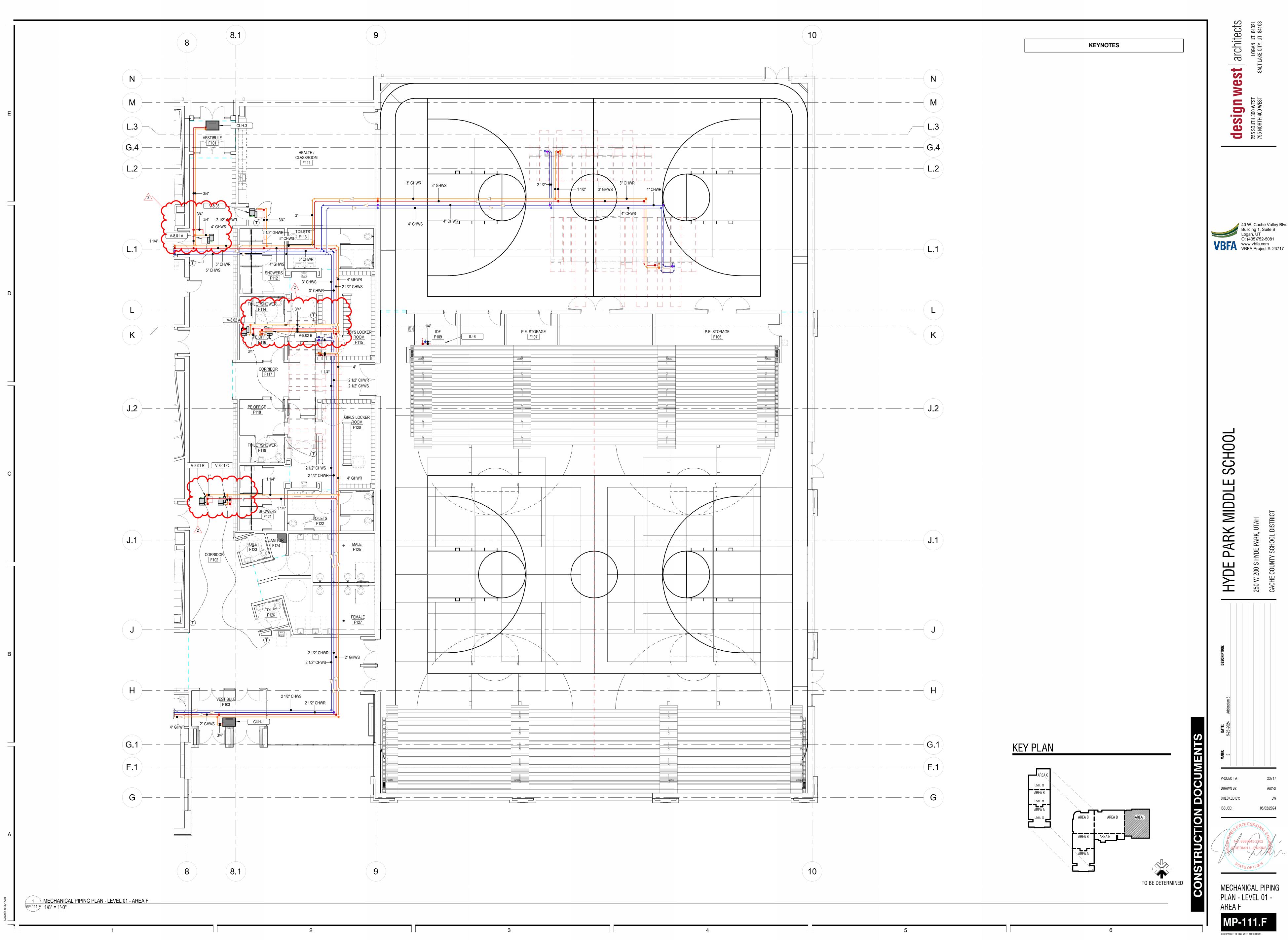


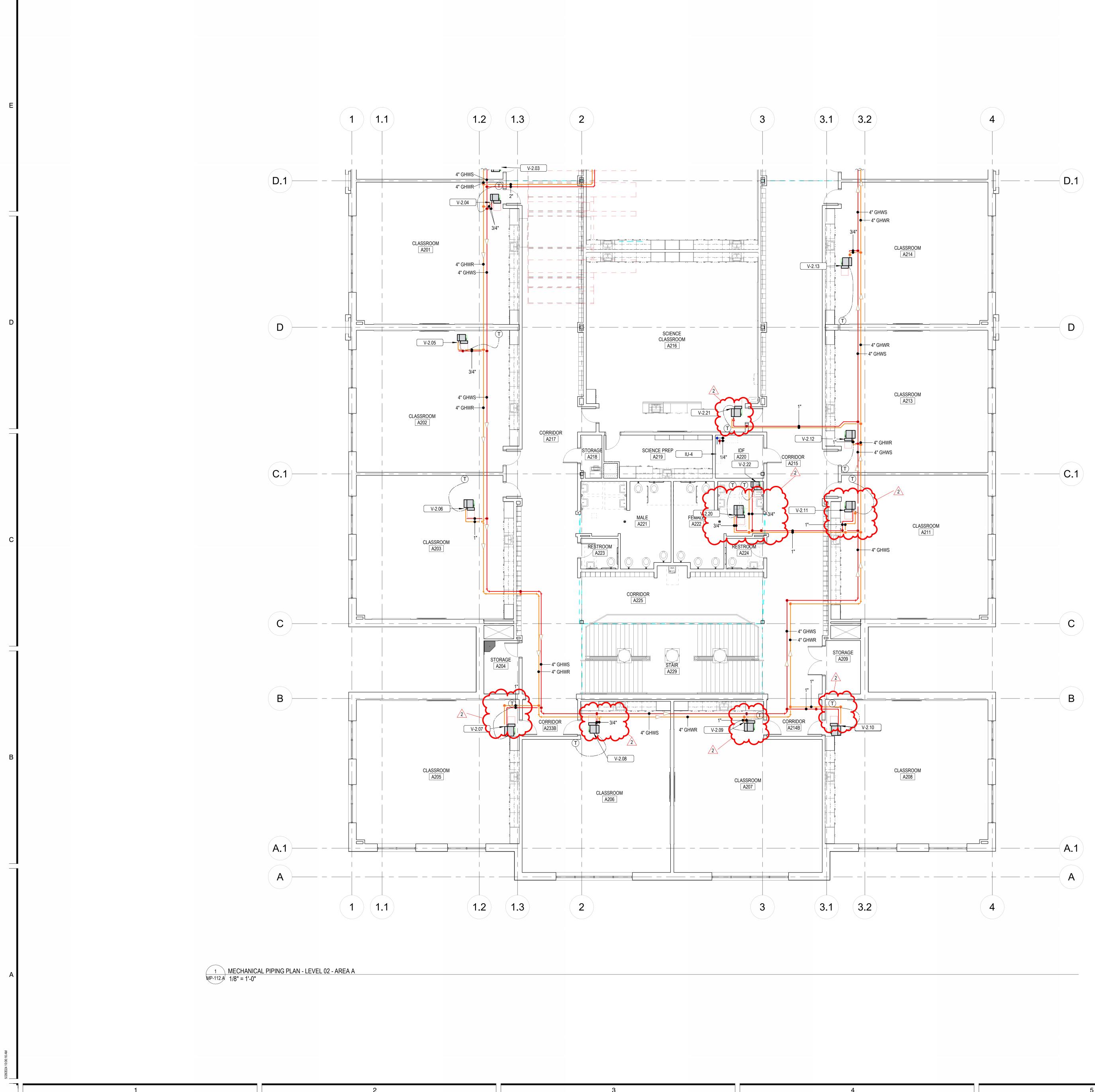






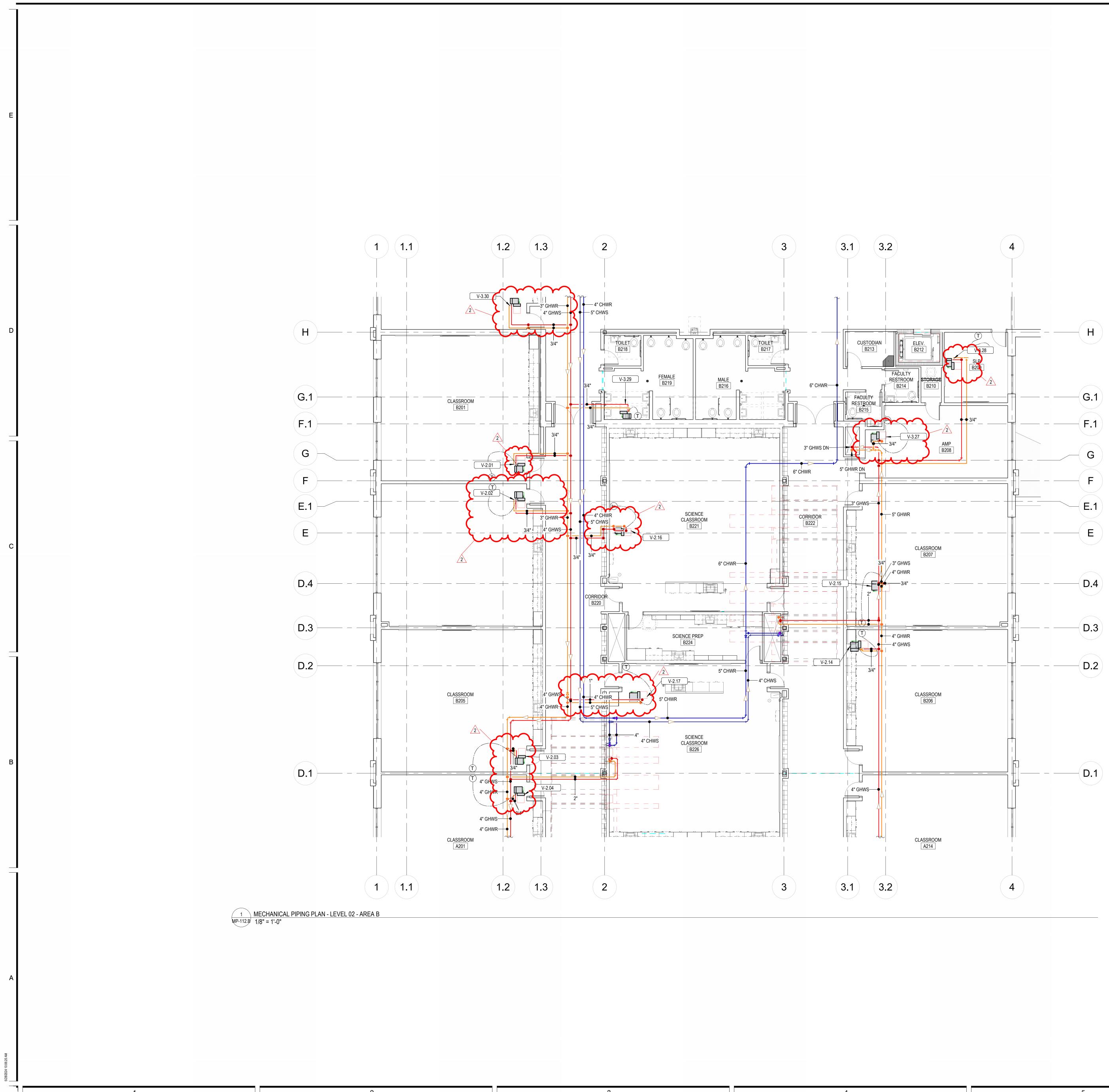






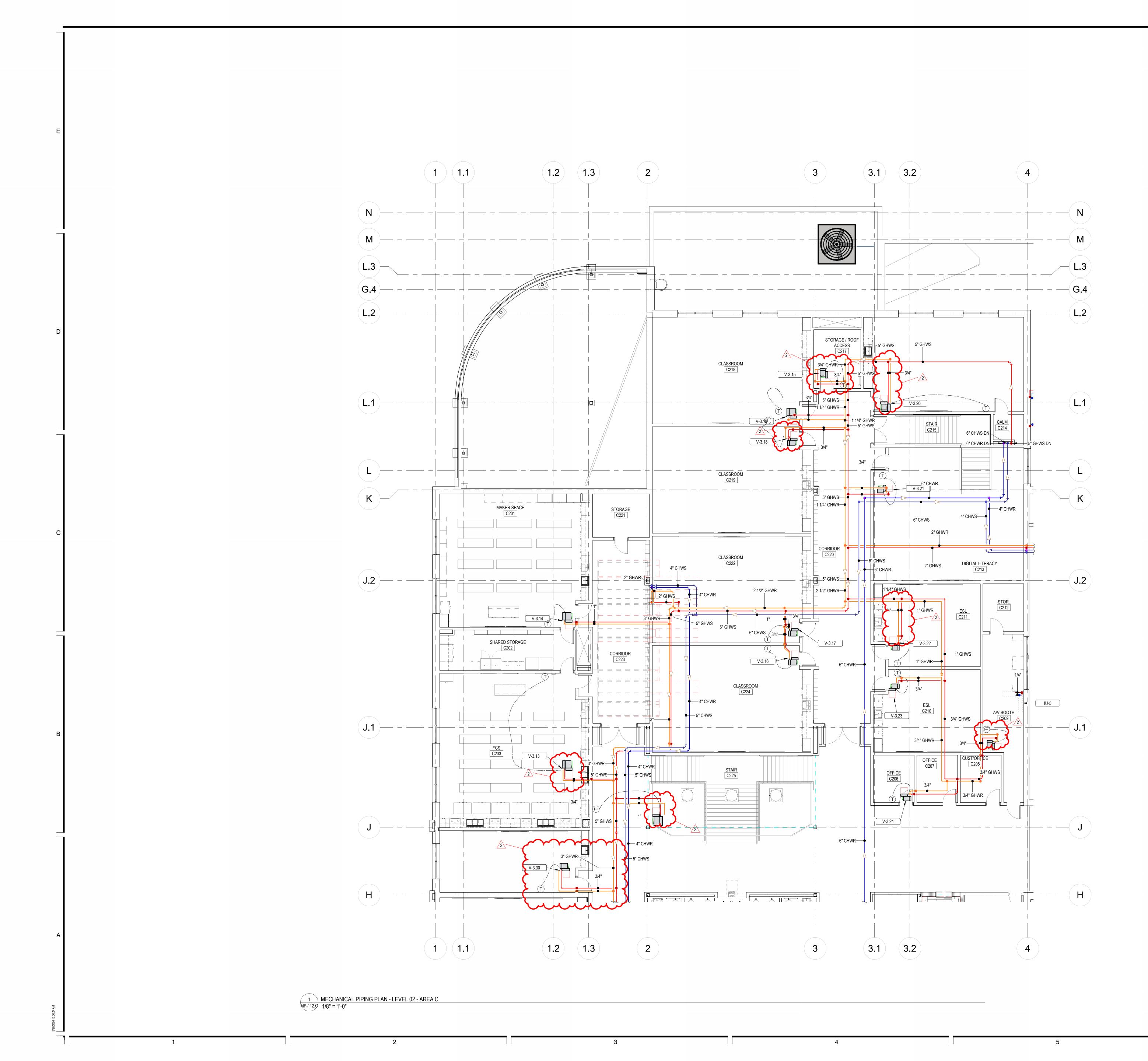




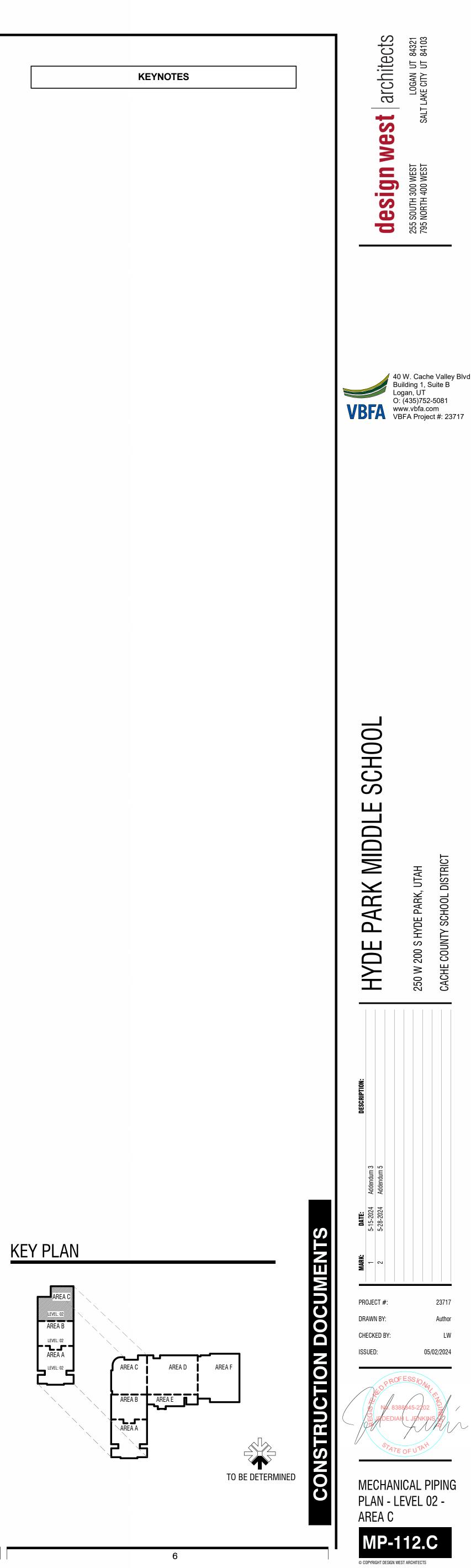














ADDENDUM #05

То:	Stephen Williams, AIA, NCARB	From:	Philip Borup
Company:	Design West Architects	Phone:	801-534-1130
Date:	05/28/2024		
Project	Hyde Park Middle School	Project #:	2023-268

Specifications:

26 0110 Conduit Raceways: Section 2.4 has been added as follows:

2.4 COLORS:

- A. Provide colored conduit for each system as follows:
 - 1. 120/208V Power Yellow
 - 2. 277/480V Power Orange
 - 3. Data Blue
 - 4. CCTV Blue
 - 5. Intercom Blue
 - 6. Wireless Access Points Blue
 - 7. Fire Alarm Red
- B. Standard silver conduits can be used in open ceilings where they will be painted to match the color of the ceiling.

27 1500 Communications Horizontal Cabling

- 1. Leviton has been added as an approved manufacturer for UTP cabling.
- 2. Tyco has been removed from the UTP cable hardware. Leviton is the only approved manufacturer for UTP cable hardware.

Approved Bidders:

Approved lighting controls have changed back to how they were in the bid set. Lutron is the only
approved manufacturer. Wattstopper and others will be allowed to bid as an unapproved system.
Those manufacturers will be reviewed by the district at bid time. The cost for each lighting control
manufacturer is to be broken out separately on the bid form.

Drawings:

E-101 – Site Plan – Electrical:

1. AF2 fixtures at monument sign have been deleted. An additional pull box was added at the monument sign with conduit back to the electrical room for future power.

E-111 – Level 1 – Area A – Lighting:

1. Exterior wall packs have been adjusted. See plans for more information.

E-112 – Level 1 – Area B – Lighting:

1. Exterior wall packs have been adjusted. See plans for more information.

E-113 – Level 1 – Area C – Lighting:

1. Exterior wall packs have been adjusted. See plans for more information.





E-115 – Level 1 – Area E – Lighting:

1. Exterior wall packs have been adjusted. See plans for more information.

E-121 – Level 2 – Area A – Lighting:

1. Circuit and relay added to flag flood light.

E-132 – Cafetorium Theatrical Lighting Plan:

1. Changed two switch stations to touchscreens and added switch stations next to each of the four (4) entrances into the Cafetorium.

E-141 – Theatrical Lighting Riser:

1. Riser and schedules have been updated.

E-161 – Light Fixture Schedule:

- 1. LS5 and AF2 have been removed from the schedule, LP3 and LR2 have been updated and WP3 has been added.
- 2. Relay schedules have been updated.

E-211 – Level 1 – Area A - Power

1. Power to EF-14 has been added.

E-212 – Level 1 – Area B - Power

1. Power to split system has been removed from Elevator Equipment Room

E-213 – Level 1 – Area C - Power

1. Special outlet for AC-1 has been changed to a fused disconnect.

E-214 – Level 1 – Area D - Power

1. Power added for VAV box transformer in Storage D112.

E-215 – Level 1 – Area E - Power

1. Power to exhaust fan has added in Kiln room.

E-221 – Level 2 – Area A - Power

1. Power added for VAV box transformer in Classroom A206.

E-222 – Level 2 – Area B - Power

1. Power added for VAV box transformer in Corridor.

E-223 – Level 2 – Area C - Power

1. Power added for split system in AV Booth C209.

E-224 – Roof Plan – Overall - Power

1. Conduit through the roof added for emergency radio antenna.

E-231 – Enlarged Power Plans

1. Power added to a few pieces of Mechanical Equipment.

E-232 – Enlarged Kitchen Plan

1. Power added to electric unit heater in kitchen restroom.





E-242 – Data Risers

- 1. Half rack in Storage E119 has been changed to a full floor mounted rack.
- 2. Equipment was removed from the 3rd rack in the MDF to make space for intercom equipment.
- 3. Drawings were changed to show only (1) 24-strand fiber is needed to each IDF.

E-314 – Level 1 – Area D – Fire Alarm

- 1. Wires for SLC circuiting have been shown.
- 2. See drawings for additional changes.

E-315 – Level 1 – Area E – Fire Alarm

- 1. Wires for SLC circuiting have been shown.
- 2. See drawings for additional changes.

E-316 – Level 1 – Area F – Fire Alarm

- 1. Wires for SLC circuiting have been shown.
- 2. See drawings for additional changes.

E-321 – Level 2 – Area A – Fire Alarm

- 1. Wires for SLC circuiting have been shown.
- 2. See drawings for additional changes.

E-322 – Level 2 – Area B – Fire Alarm

- 1. Wires for SLC circuiting have been shown.
- 2. See drawings for additional changes.

E-323 – Level 2 – Area C – Fire Alarm

- 1. Wires for SLC circuiting have been shown.
- 2. See drawings for additional changes.

E-332 – Fire Alarm Symbols and Notes

1. Fire Alarm Matrix has been updated.

E-411 – Level 1 – Area A – Systems:

1. Keyed notes have been added to cameras.

E-412 – Level 1 – Area B – Systems:

1. Keyed notes have been added to cameras.

E-413 – Level 1 – Area C – Systems:

1. Keyed notes have been added to cameras.

E-414 – Level 1 – Area D – Systems:

- 1. Keyed notes have been added to cameras.
- 2. Additional information has been provided for kitchen doorbell.

E-415 – Level 1 – Area E – Systems:

1. Keyed notes have been added to cameras.

E-421 – Level 2 – Area A – Systems:

1. Keyed notes have been added to cameras.

E-422 – Level 2 – Area B – Systems:

1. Keyed notes have been added to cameras.



E-423 – Level 2 – Area C – Systems:

1. Keyed notes have been added to cameras.

E-442 – Security Detail & Risers

1. Details and CCTV scope have been updated.

E-531 – Audio Visual Sections & Elevations

1. Classroom connection plate elevations have been updated.

E-532 – AV Music Rooms - Sections & Elevations

1. Classroom connection plate elevations have been updated.

E-541 – Audio Visual Enlarged Plans – Typical Classrooms

1. Classroom connection plate elevations have been updated.

E-571 – AV Riser & Equipment List

1. Lightspeed DRQ has been added to list of approved classroom ceiling speakers.

E-573 – AV Riser & Equipment List

1. Audio system – Cafetorium – equipment list has been updated.

E-575 – AV Riser & Equipment List

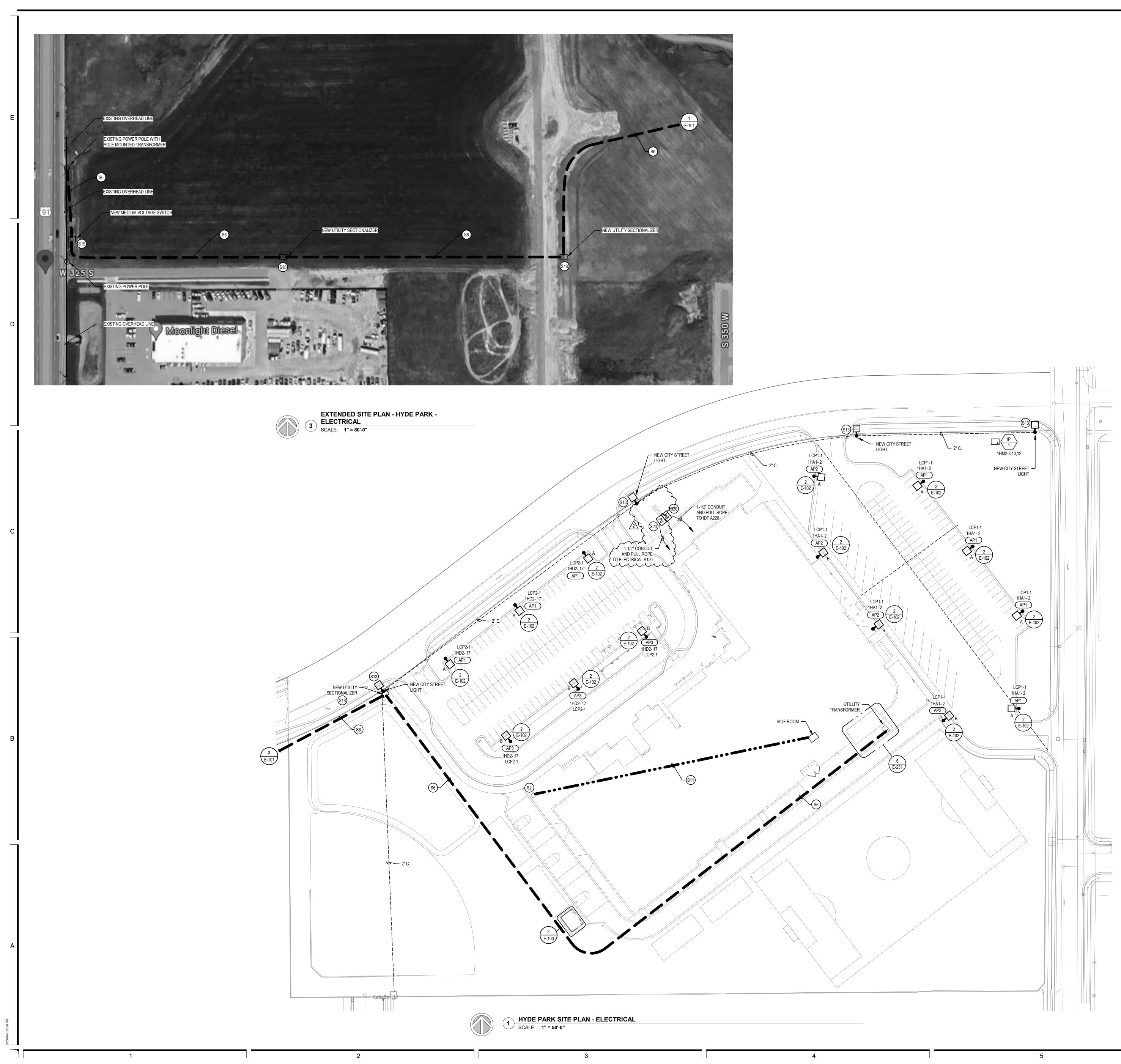
1. Audio system – Cafetorium – equipment list has been updated.

E-615 – Level 1 – Area E - Intercom

1. New symbols have been added to the reception area..

E-671 – Intercom Riser & Equip List

1. Intercom system – school – equipment list has been updated.



SITE GENERAL NOTES:

- COMMUNICATION CONDUITS.
- PVC TAPE.

CONDUIT AND TRENCHING REQUIREMENTS CONDUIT ROUTING UTILITY CLEARANCE REQUIREMENTS EQUIPMENT YARDS

UTILITY REQUIRED SITE OBSERVATIONS SCHEDULING OF UTILITY INSTALLATIONS

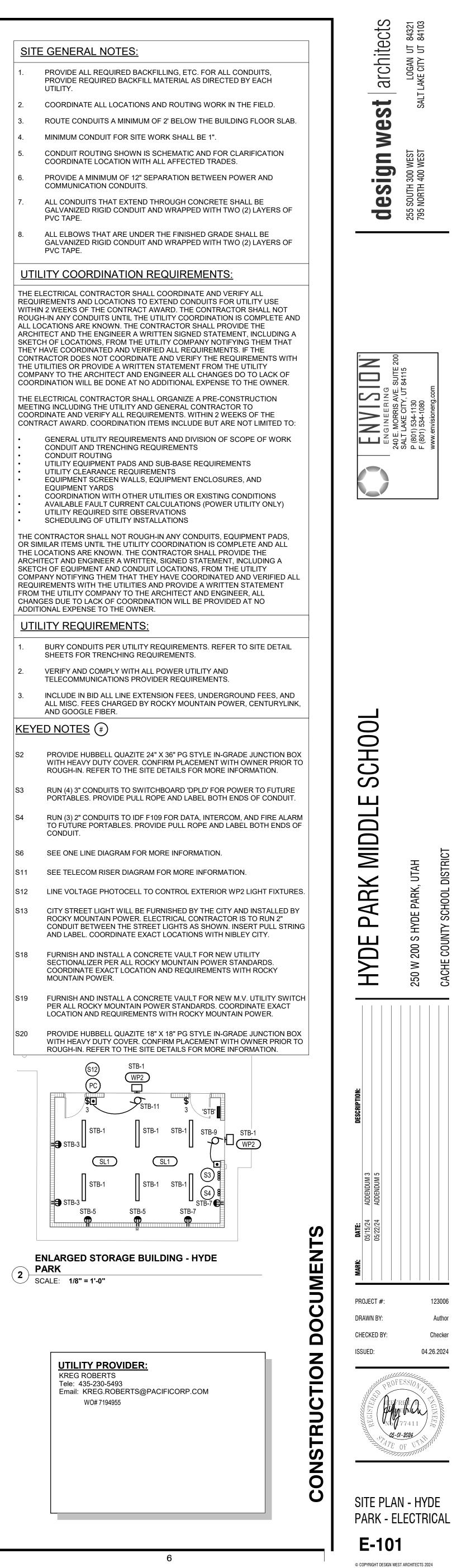
ADDITIONAL EXPENSE TO THE OWNER.

UTILITY REQUIREMENTS:

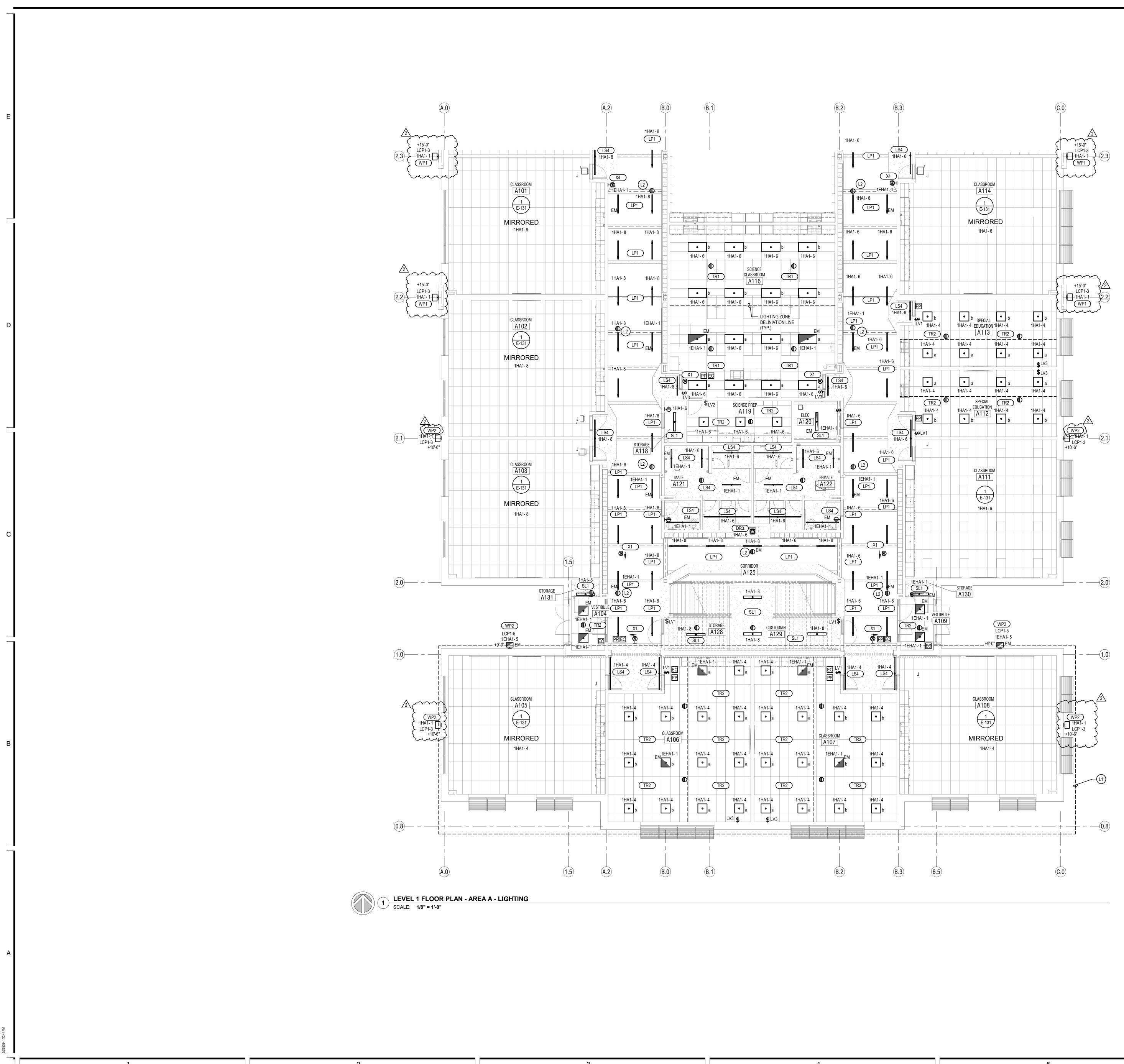
- SHEETS FOR TRENCHING REQUIREMENTS.

KEYED NOTES (#)

S2	PROVIDE HUBBELL QUAZITE 24" X 36" PG STYLE IN-GF WITH HEAVY DUTY COVER. CONFIRM PLACEMENT WI ROUGH-IN. REFER TO THE SITE DETAILS FOR MORE II
S3	RUN (4) 3" CONDUITS TO SWITCHBOARD 'DPLD' FOR P PORTABLES. PROVIDE PULL ROPE AND LABEL BOTH I
S4	RUN (3) 2" CONDUITS TO IDF F109 FOR DATA, INTERCO TO FUTURE PORTABLES. PROVIDE PULL ROPE AND L CONDUIT.
S6	SEE ONE LINE DIAGRAM FOR MORE INFORMATION.
S11	SEE TELECOM RISER DIAGRAM FOR MORE INFORMAT
S12	LINE VOLTAGE PHOTOCELL TO CONTROL EXTERIOR
S13	CITY STREET LIGHT WILL BE FURNISHED BY THE CITY ROCKY MOUNTAIN POWER. ELECTRICAL CONTRACTO CONDUIT BETWEEN THE STREET LIGHTS AS SHOWN. AND LABEL. COORDINATE EXACT LOCATIONS WITH N
S18	FURNISH AND INSTALL A CONCRETE VAULT FOR NEW SECTIONALIZER PER ALL ROCKY MOUNTAIN POWER COORDINATE EXACT LOCATION AND REQUIREMENTS MOUNTAIN POWER



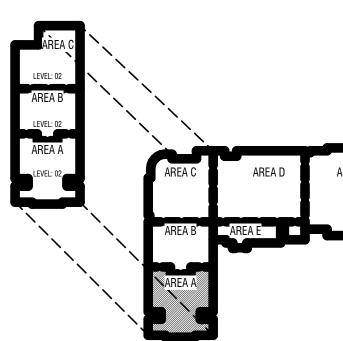
PARK



CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH TO INSTALLATION. PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY L BATTERY PACKS. REFER TO ARCHITECTURAL CEILING PLANS FOR EXA ALL LIGHT FIXTURES. PROVIDE AN RFI FOR ANY CONF LIGHTING PLANS AND ARCHITECTURAL REFLECTED PRIOR TO ORDERING LIGHT FIXTURES. KEYED NOTES (#) UNDER THE BASE BID, INCLUDE ALL WORK IN THIS A THE PLANS. UNDER ALTERNATE #1, THIS AREA WILL THE PROJECT. PROVIDE A SEPARATE COST TO BE IS FOR ALL WORK IN THIS AREA AS SHOWN ON THE PLA

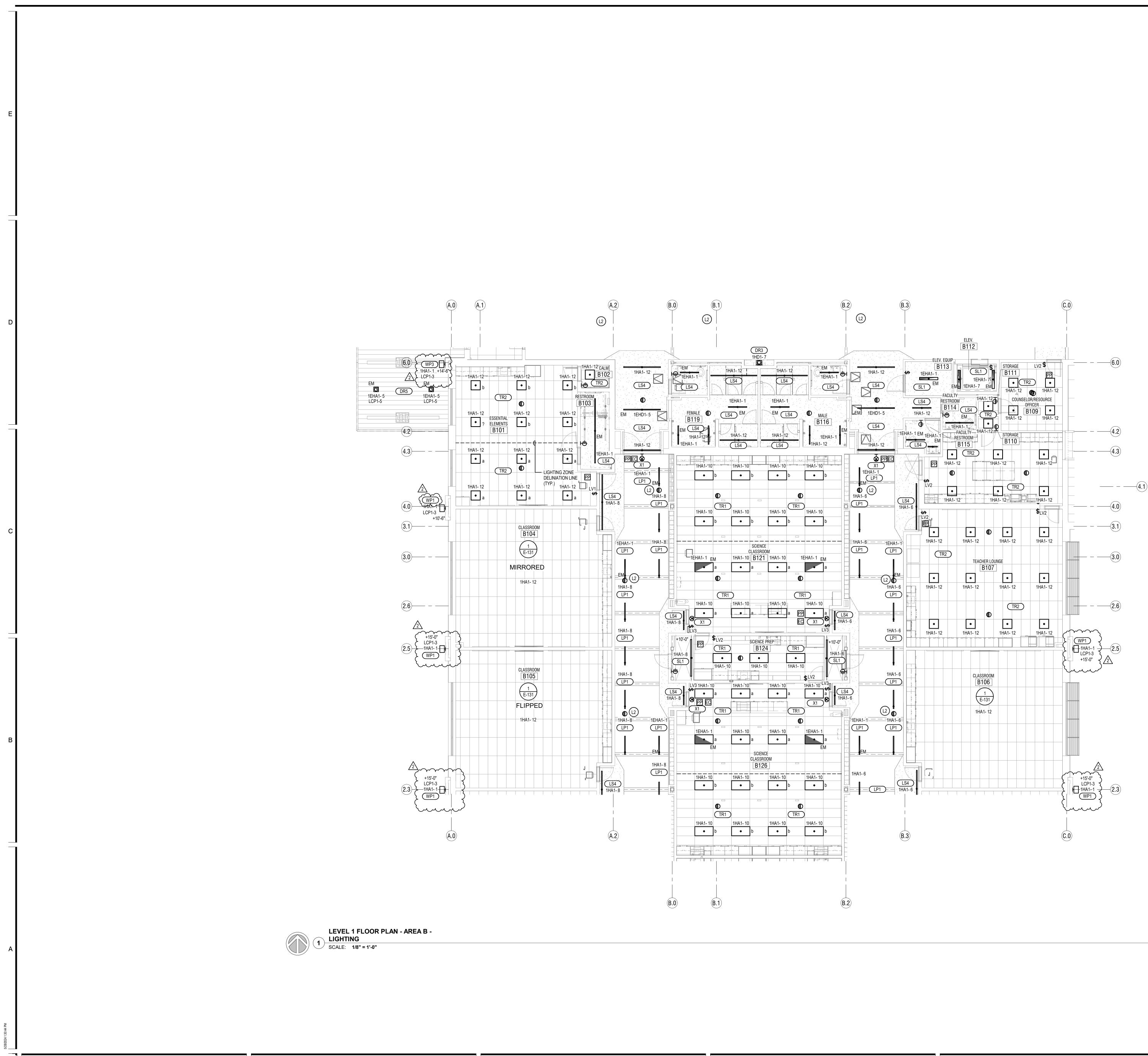
LIGHTING GENERAL NOTES:

KEY PLAN



HTING GENERAL NOTES: REFER TO LIGHTING DETAILS SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC. LOCATE POWER PACKS AND ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING NEAR ROOM ENTRANCES. CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY LIGHTS AND BATTERY PACKS. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES. PROVIDE AN RFI FOR ANY CONFLICTS BETWEEN LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO ORDERING LIGHT FIXTURES. ED NOTES (#) UNDER THE BASE BID, INCLUDE ALL WORK IN THIS AREA AS SHOWN ON THE PLANS. UNDER ALTERNATE #1, THIS AREA WILL BE REMOVED FROM THE PROJECT. PROVIDE A SEPARATE COST TO BE ISSUED AS A CREDIT FOR ALL WORK IN THIS AREA AS SHOWN ON THE PLANS.		design west architects	255 SOUTH 300 WEST LOGAN UT 84321 795 NORTH 400 WEST SALT LAKE CITY UT 84103	
PENDANT MOUNT MOTION SENSOR ON THREADED ROD AT THE SAME			SALT LAKE CITY, UT 84115 P (801) 534-1130 F (801) 534-1080	www.envisioneng.com
		HYDE PARK MIDDLE SCHOOL	250 W 200 S HYDE PARK, UTAH	CACHE COUNTY SCHOOL DISTRICT
	CONSTRUCTION DOCUMENTS	DESCRIPTION: DESCR	04	123006 Author Checker
TO BE DETERMINED	CONS	LEVEL 1 LIGHTING	3	\ А -

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LIGHTING GENERAL NOTES:

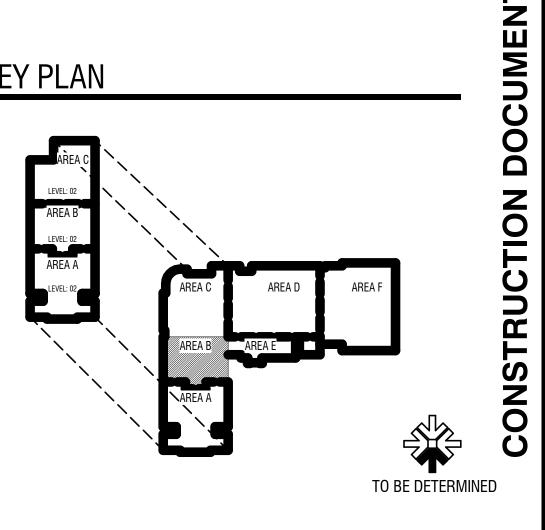
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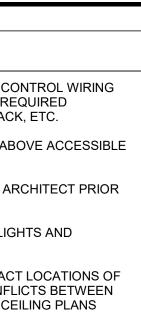
KEYED NOTES (#)

PENDANT MOUNT MOTION SENSOR ON THREADED R HEIGHT AS LIGHT FIXTURES.

KEY PLAN

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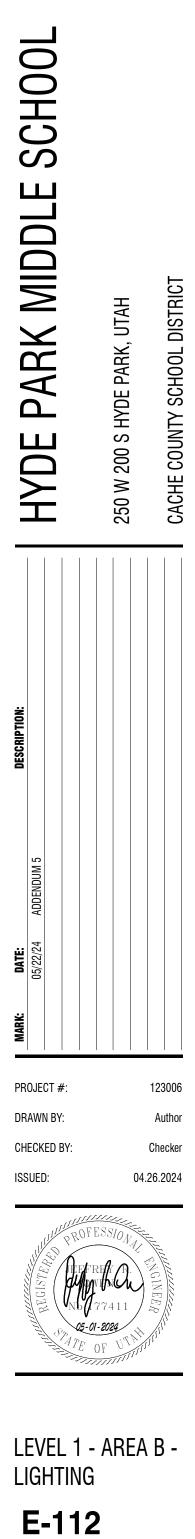




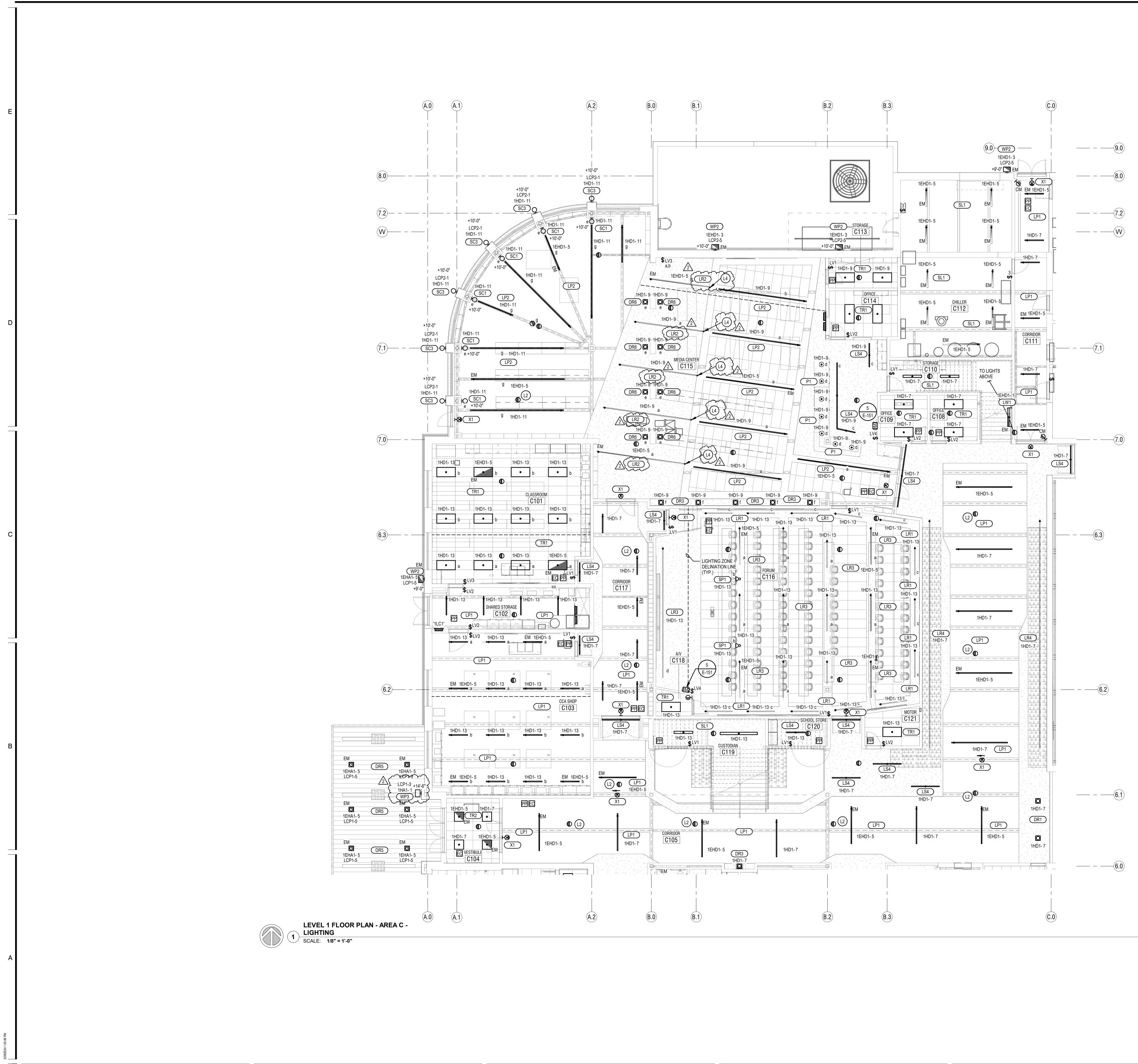
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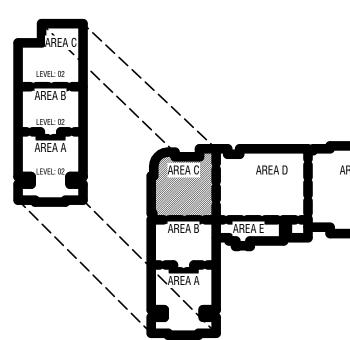


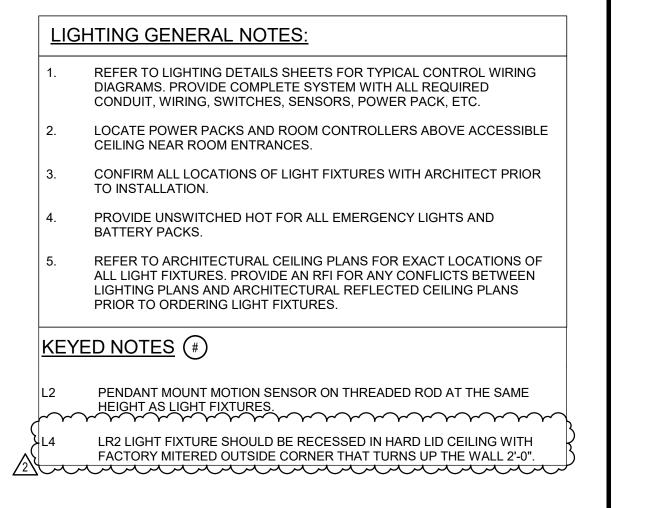


	2.	LOCATE POWER PACKS AND ROOM CONTROLLERS A CEILING NEAR ROOM ENTRANCES.							
	3.	CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH TO INSTALLATION.							
	4. PROVIDE UNSWITCHED HOT FOR ALL EMEI BATTERY PACKS.								
	5.	REFER TO ARCHITECTURAL CEILING PLANS FOR EXA ALL LIGHT FIXTURES. PROVIDE AN RFI FOR ANY CON LIGHTING PLANS AND ARCHITECTURAL REFLECTED PRIOR TO ORDERING LIGHT FIXTURES.							
	<u>KEYE</u>	DNOTES (#)							
	L2	PENDANT MOUNT MOTION SENSOR ON THREADED R HEIGHT AS LIGHT FIXTURES.							
}	L4	LR2 LIGHT FIXTURE SHOULD BE RECESSED IN HARD							

LIGHTING GENERAL NOTES:

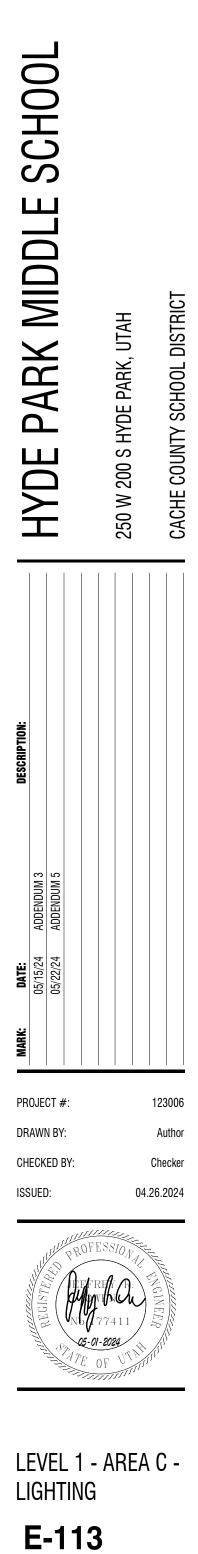
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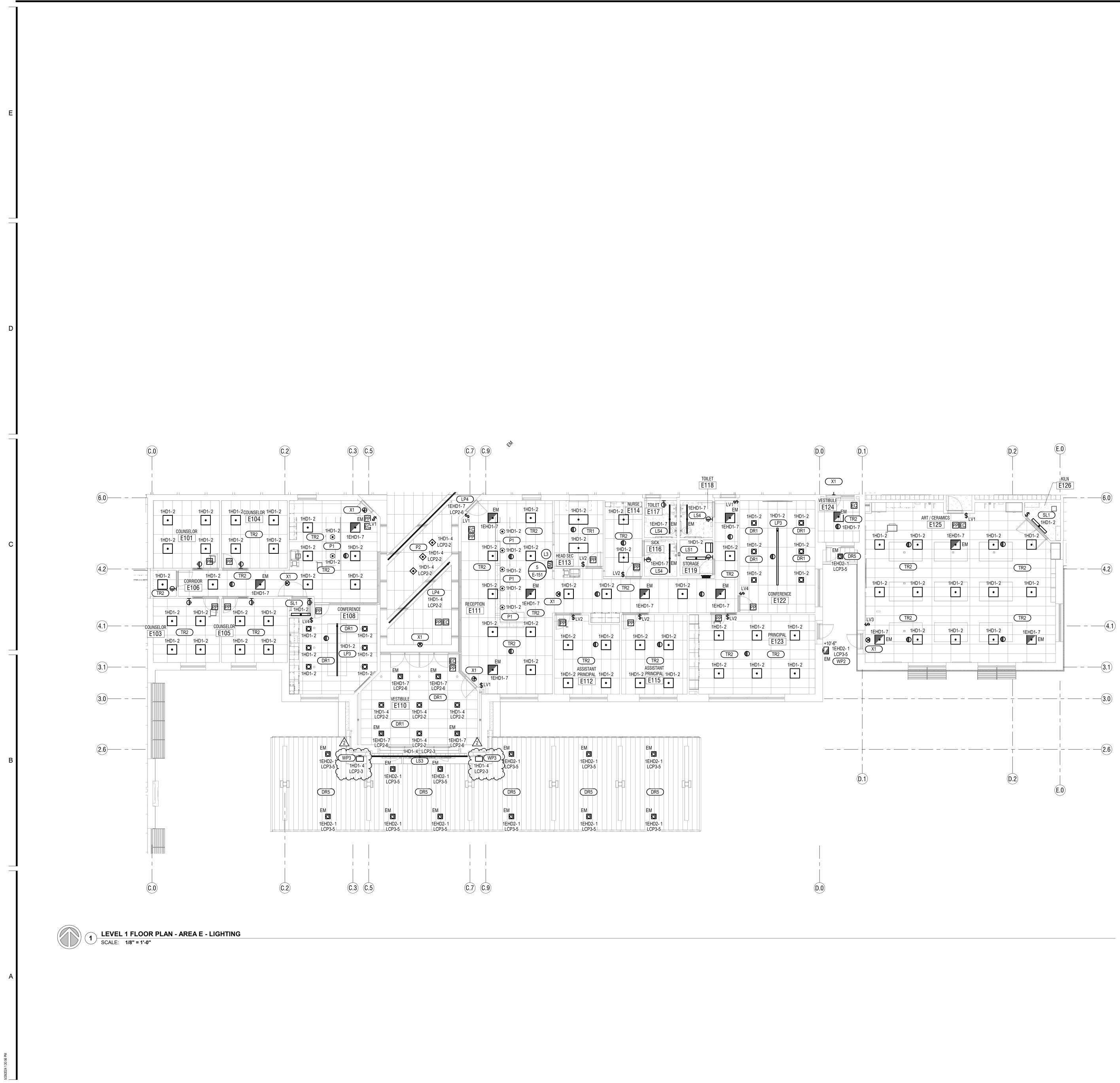


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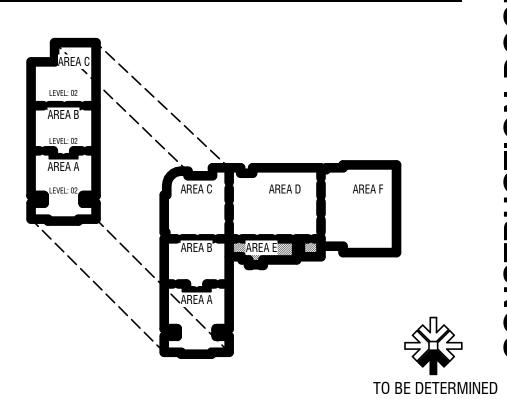
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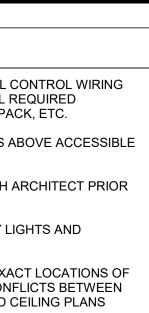
1.	REFER TO LIGHTING DETAILS SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC.
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KEYE	ED NOTES (#)
L3	DMX CONTROLLER TO CONTROL RGB LIGHTS IN BOTH STAIRS AND RGB LIGHTS IN CORRIDOR C106.

LIGHTING GENERAL NOTES:

KEY PLAN

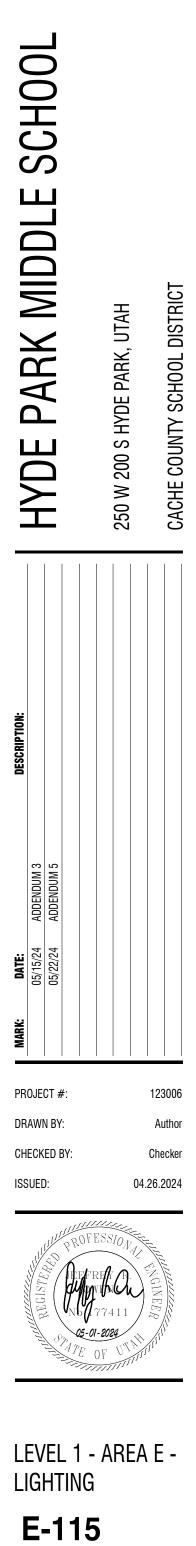
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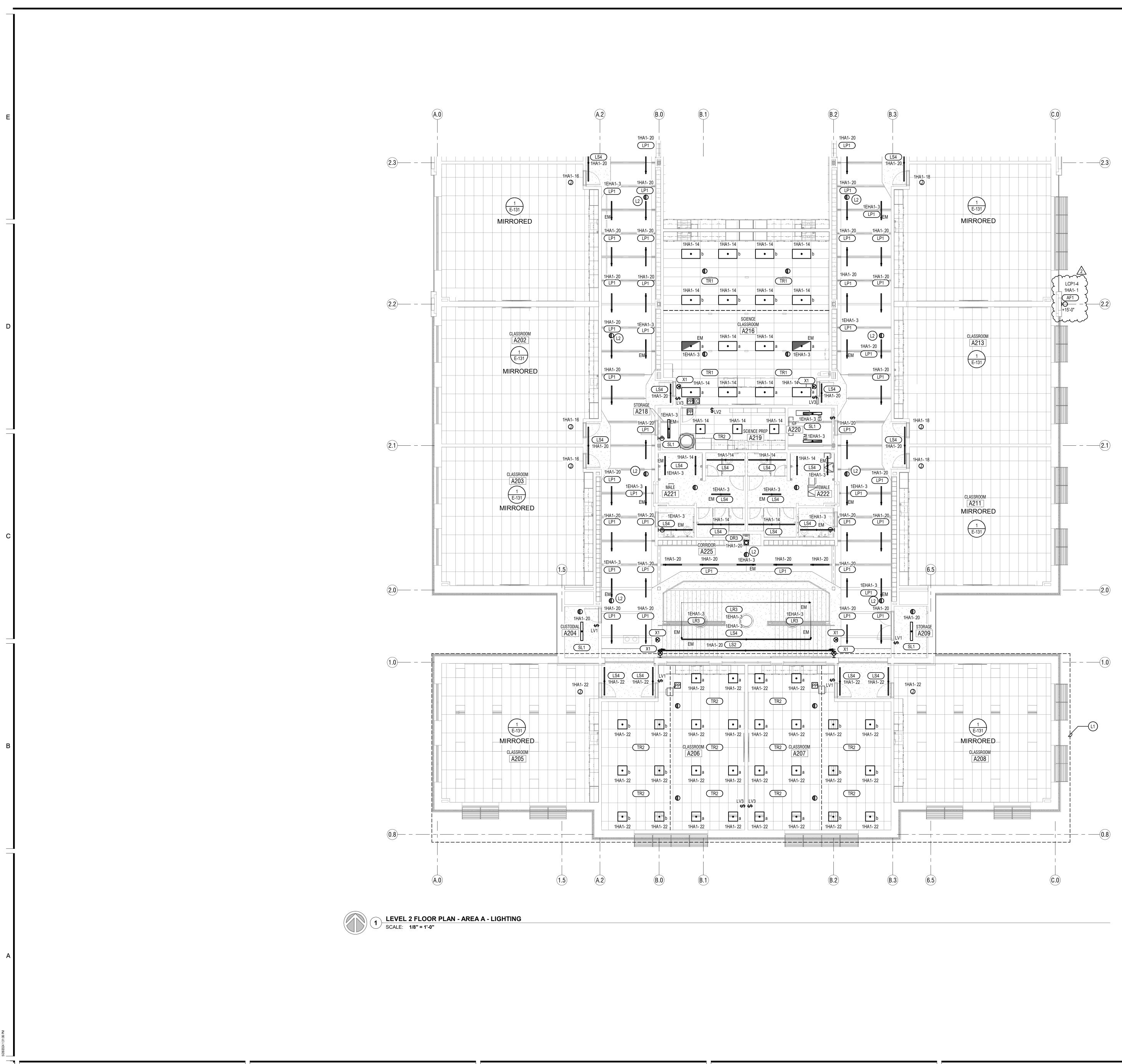
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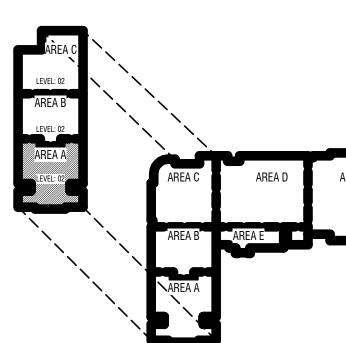
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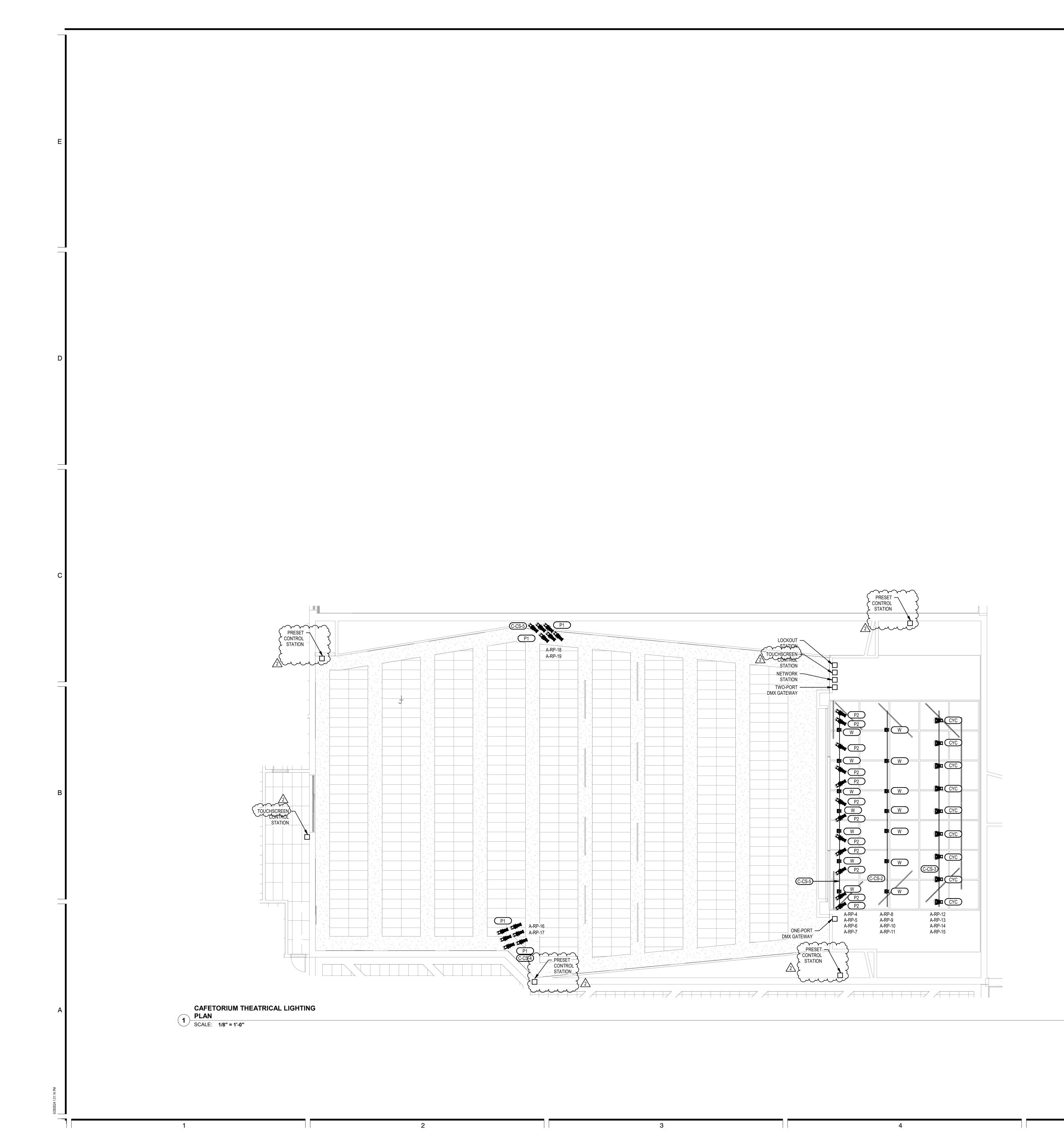


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LIGHTING GENERAL NOTES:

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			SALT LAKE CITY, UT 84115 P (801) 534-1130 F (801) 534-1080	www.envisioneng.com
		HYDE PARK MIDDLE SCHOOL	250 W 200 S HYDE PARK, UTAH	CACHE COUNTY SCHOOL DISTRICT
	DOCUMENTS	MARK: DATE: DESCRIPTION: 05/22/24 ADDENDUM 5		
	CONSTRUCTION DOCUN	PROJECT #: DRAWN BY: CHECKED BY: ISSUED:	FESSIONAL TRHAT (P. 177411 077411 0F UT M	123006 Author Checker 2.26.2024
TO BE DETERMINED		LIGHTING	3	. , 1

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CONSTRUCTION DOCUMENT

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TRICAL L	IGHT FIX	TURE SCHEDULE
TYPE	MFG	PART NUMBER
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	A	<u>τ</u>
P1	STRAND	<u>{</u>
P2	STRAND	\mathbf{Y}
	(5
CYC	STRAND	K
	TYPE W P1 P2	W STRAND P1 STRAND P2 STRAND

NOTES: 1. LED WASH FIXTURE INCLUDES POWER CABLE, DMX CABLE, PBG CONNECTOR, C-CLAMP, SAFETY CABLE.

CONTRACTOR TO VERIFY LENGTH OF POWER CABLE AND DMX CABLE PRIOR TO ORDERING. COORDINATE EXACT FIXTURE LOCATIONS WITH THE SCHOOLS THEATER TEACHER. 2. LED PROFILE FIXTURES INCLUDES POWER CABLE, DMX CABLE, PBG CONNECTOR, C-CLAMP, SAFETY CABLE, SIZE

A PATTERN HOLDER, AND 15-30 DEGREE ZOOM LENS. CONTRACTOR TO VERIFY LENGTH OF POWER CABLE AND DMX CABLE PRIOR TO ORDERING. COORDINATE EXACT LOCATIONS WITH THE SCHOOLS THEATER TEACHER. LED PROFILE FIXTURES INCLUDES POWER CABLE, DMX CABLE, PBG CONNECTOR, C-CLAMP, SAFETY CABLE, AND 25-50 DEGREE ZOOM LENS. CONTRACTOR TO VERIFY LENGTH OF POWER CABLE AND DMX CABLE PRIOR TO ORDERING. COORDINATE EXACT LOCATIONS WITH THE SCHOOLS THEATER TEACHER.

4. LED CYC FIXTURE INCLUDES POWER CABLE, DMX CABLE, PBG CONNECTOR, C-CLAMP, SAFETY CABLE. CONTRACTOR TO VERIFY LENGTH OF POWER CABLE AND DMX CABLE PRIOR TO ORDERING. COORDINATE EXACT FIXTURE LOCATIONS WITH THE SCHOOLS THEATER TEACHER.

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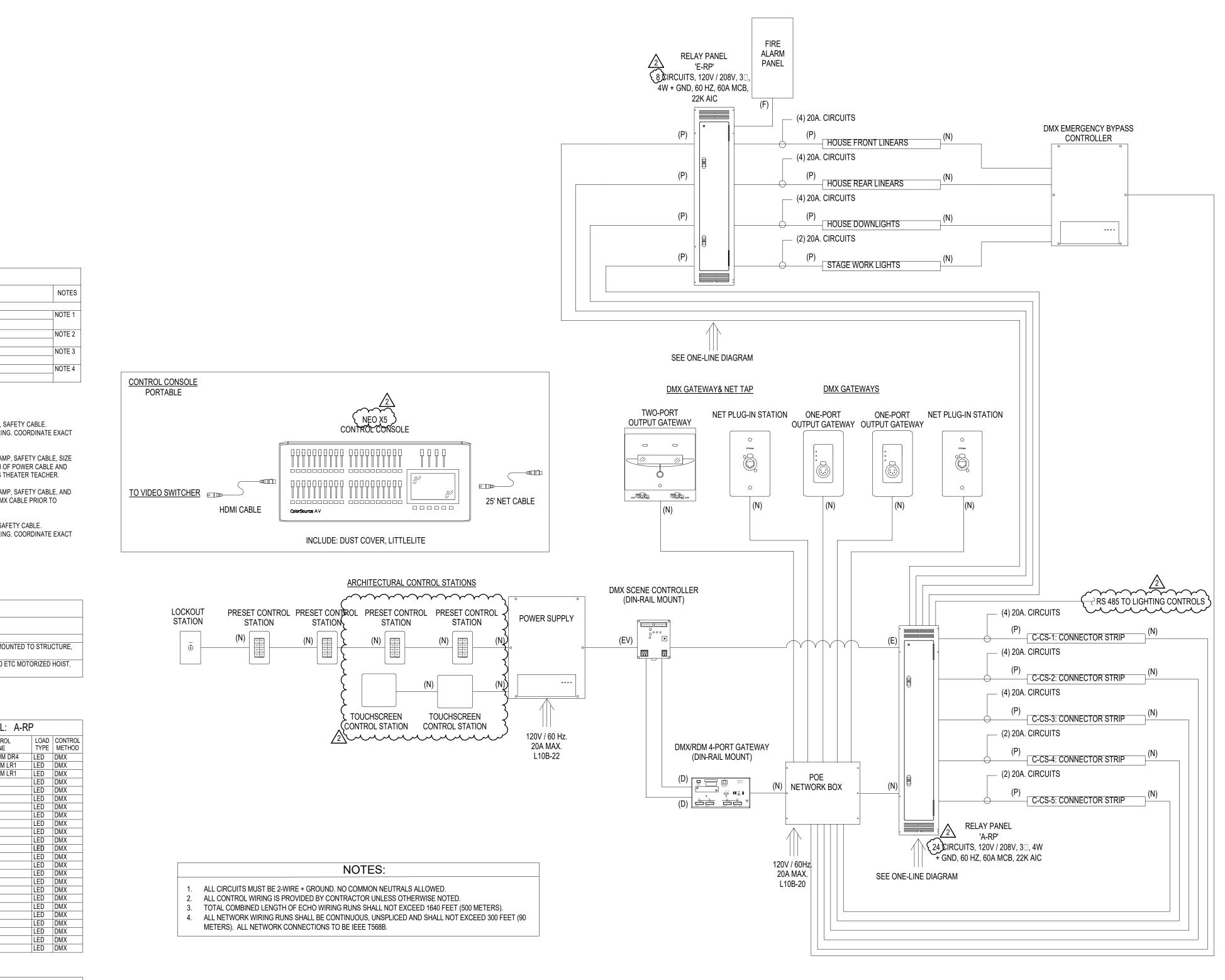
THEATRICAL CONTROLS							
DESCRIPTION							
CONNECTOR STRIP: (1) 50' CONNECTOR STRIP, (24) PBG OUTLETS, SURFACE MOUNTED HANGING BRACKETS, (4) SWITCHED CIRCUITS, (1) DMX OUTPUT GATEWAY							
CONNECTOR STRIP: (1) 16' CONNECTOR STRIP, (8) PBG OUTLETS, MOUNTED TO ETC MC HANGING BRACKETS, (2) SWITCHED CIRCUITS, (1) DMX OUTPUT GATEWAY							

REL	AY PANEL: E-RF	כ	
СКТ	CONTROL ZONE	LOAD TYPE	CONTR METHO
1	STAGE LIGHTS	LED	DMX
2	CAFETORIUM LR5	LED	DMX
3	CAFETORIUM LR5	LED	DMX
4	CAFETORIUM LR5	LED	DMX
5	STAGE RAMP LIGHTS	LED	DMX
6	CAFETORIUM DR7	LED	DMX
7	SPARE	LED	DMX
8	SPARE	LED	DMX

REL	AY PANEL: A-R
CKT	CONTROL ZONE
1	PROSCENIUM DR4
2	CAFETORIUM LR1
3	CAFETORIUM LR1
4	C-CS-1
5	C-CS-1
6	C-CS-1
7	C-CS-1
8	C-CS-2
9	C-CS-2
10	C-CS-2
11	C-CS-2
12	C-CS-3
13	C-CS-3
14	C-CS-3
15	C-CS-3
16	C-CS-4
17	C-CS-4
18	C-CS-5
19	C-CS-5
20	SPARE
21	SPARE
22	SPARE
23	SPARE
24	SPARE

WIRING LEGENI	D
WIRE TYPE	Ś
(1) BELDEN 9729	1
(1) BELDEN 1583A	T
(1) BELDEN 8471 (1) #14 AWG. STRANDED	
2#12 AWG 1#12 AWG GND. (UPSIZE FOR VOLTAGE DROP)	
(1) BELDEN 8471 (1) #14 AWG STRANDED (2) #16 AWG STRANDED	
	WIRE TYPE (1) BELDEN 9729 (1) BELDEN 1583A (1) BELDEN 8471 (1) #14 AWG. STRANDED 2#12 AWG 1#12 AWG GND. (UPSIZE FOR VOLTAGE DROP) (1) BELDEN 8471 (1) #14 AWG STRANDED

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SIGNAL DMX NETWORK 120V POWER

2 COMMONS THEATRICAL LIGHTING RISER DIAGRAM SCALE: NTS

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		LIGHT FI	XTURE SC	HEDULE			DECORATIVE PENDANT MOUNTED LED LINEAR LIGHT FIXTURE WITH DIRECT / INDIRECT DISTRIBUTION. DIRECT AND INDIRECT LIGHTING ARE TO BE ON	LED 1200 LM / FT DN 400 LM / FT/ UP	277 V 20 W / FT	ECOSENSE AYO	RP2-4-B-09DN/03UP-L40-UNV-D-2C-FRF-SCAB-XX-48-X GAZ-CS-B-44-M-PSB-4-X-940-L-L-VL-SB-1D-B-MF-SC-M
TYPE	DESCRIPTION	SOURCE	LOAD	APPROVED MANUFACTURERS	CATALOG NUMBER / SERIES		SEPARATE SWITCHES. LENGTH AS SHOWN ON DRAWINGS.	400 LM / F I/ OP 0-10V DIMMING 4000 K			
	42" LED EXTERIOR BOLLARD WITH 180-DEGREE DISTRIBUTION. IK10 RATING.	LED 3000 LM 0-10 V DIMMING	277 V 30 W	MCGRAW EDISON SELUX	BRT6 IBL 3.5 4QD 40 SCBA UNV DM					CORELITE	S122DP
(AB1)		4000 K		RAGNI LIGHTING	CIK-16-C-42"-35-50-TX-1-S-STANDARD FINISH	(LP4)	2"X2" PROFILE. LENGTH AS SHOWN ON DRAWINGS.	1000 LM / FT 0-10V DIMMING 4000 K	10 W / FT	FINELITE	HP X P ID *' S TL 840 F 277 DC FC-1% FA50 ** FE SCBA HTG-1P-TD-DT-XX-SLO-1250-840-MEODF-VU-D-
										EXTANT ARCH. LIGHTING	STANDARD FINISH-AC-XX VIA2P-D-HLO-FH-NA-SW-80-1250-NA-40-**-UNV-D1-1C
	WALL MOUNTED EXTERIOR LED FLOOD LIGHT FIXTURE WITH 15 X 60 BEAM ANGLE AND FULL SNOOT.	LED 1200 LM	277 V 13 W	ECOSENSE	F170-1S-LO-40-8-E1-X-F-C		1" WIDE LINEAR RECESSED LED RGBW LIGHT FIXTURE WITH WHITE LENS AND MUD-IN TRIM. LENGTH AS	LED 400 LM / FT OF	277 V 12 W	QTRAN	VIA2F-D-HEO-HINA-SW-00-1250-NA-400NV-DT-10
(AF1)	MOUNTED ON	0-10 V DIMMING 4000 K				(LR1)	SHOWN ON DRAWINGS.	WHITE DMX RGBW		OMNI LIGHT	HUE-RGB412-H02-XX OCH-068R-XX-OM APO-XX-E-24 HUE-DMX-CONTROLLER-STANDARD FINISH HUE-DMX-DECODER
				LUMASCAPE	LS5330 - 15D 840 WH S 13 PS 016			RGDW		KELVIX	
\sim	NOT USED		\rightarrow				LINEAR RECESSED LED LIGHT FIXTURE WITH 2.5" W x	LED	277 V	XICO FLUXWERX	NT1-L-02-B-A-40-F2-M-X
(AF2)					2	(LR2)	2.5" H REGRESSED NOTCH LENGTH AS SHOWN ON (DRAWINGS. OUTSIDE 90-DEGREE MITERED CORNER) (UP WALL AS SHOWN ON PLANS.	500 LM / FT 0-10V DIMMING 4000 K	5 W / FT	PMC LIGHTING	S9062-D-FL/TRM-40K-070-XX'-SCBA-UNV-OE
					5		fillin 2			PINNACLE	CRD-840-X-SF-2-EL1-1-SCBA
				MCGRAW-EDISON	GLAN-SA2C-740-U-14-SCBA-SPB2-SSP20 (MCGR,		2" WIDE MUD-IN RECESSED LED LINEAR LIGHT FIXTURE. LENGTH AS SHOWN ON DRAWINGS.	LED 800 LM / FT	277 V 8 W / FT	NULITE AXIS LIGHTING INC.	RM2-06-L35-UNV-D-1C-FRF-WH-XX' B2SQRLED-750-80-35-SO-X-W-UNV-DP-1-DF
	DISTRIBUTION, HOUSE SIDE SHIELD AND 20', NON-TAPERED STEEL POLE.	20,000 LM 0-10 V DIMMING 4000 K	185 W	GARDCO	KW)-HSS OPF-M-A14-740-T4M-AR1-UNV-STANDARD FINISH-HSS	LR3	FACTORY MITERED CORNERS.	0-10V DIMMING 4000 K		MARK LIGHTING	SL2L LOP *FT FLP GB 80CRI 35K 800LMF MIN1 277 ZT
(AP1)				LITHONIA	RSX2 LED P3 40K R4 MVOLT SPA HS NLTAIR2 PIRHN DDBXD / SSS 20 4C DM19AS DDBXD					LUMENWERX	VIA2R-D-HLO-FH-SW-80CRI-750LMF 35K-*FT-UNV- D1-1C-DMF-W
				BEACON PRODUCTS, INC.	VP-2-320L-210-4K7-4-UNV-ASQU-SCBA SHD 2-HSS-XXX-SCBA SSSB20-40A-1-B3-SCB		2" WIDE MUD-IN RECESSED RGBW LED LINEAR LIGHT FIXTURE WITH ASYMMETRIC OPTIC. LENGTH AS SHOWN ON DRAWINGS. TIE TO DMX CONTROLLER IN	LED 400 LM / FT OF WHITE	277 V 12 W / FT	PRUDENTIAL	BPRO2-REC-FLSH-CHR-HO-XX'-SCBA-WWF-LP-SC- UNV-X7-EDMX
						LR4	RECEPTION E111.	DMX RGBW		AXIS LIGHTING INC. MARK LIGHTING	
	LED POLE MOUNTED LIGHT FIXTURE WITH TYPE 4 DISTRIBUTION AND 20', NON-TAPERED STEEL POLE.	LED 20,000 LM	277 V 185 W	MCGRAW-EDISON	GLAN-SA2C-740-U-T4-SCBA-SPB2-SSP20 (MCGR, KW)		2" WIDE MUD-IN RECESSED LED LINEAR LIGHT	LED	277 V	DAY-O-LITE	PRFL-24-D-FL-RGBW-LO-X-TRL-W-DIM10 BPR02-REC-FLSH-LED4-SO-XX'-SCBA-WWF-LP-SC-
		0-10 V DIMMING 4000 K		GARDCO	OPF-M-A14-740-T4M-AR1-UNV-STANDARD FINISH		FIXTURE. LENGTH AS SHOWN ON DRAWINGS. FACTORY MITERED CORNERS.	800 LM / FT DMX	8 W / FT	PRUDENTIAL AXIS LIGHTING INC.	UNV-X7-DMX
AP2				LITHONIA	RSX2 LED P3 40K R4 MVOLT SPA NLTAIR2 PIRHN DDBXD / SSS 20 4C DM19AS DDBXD	LR5		4000 K		MARK LIGHTING	
				BEACON PRODUCTS, INC.	VP-2-320L-210-4K7-4-UNV-ASQU-SCBA SSSB20-40A-1-B3-SCB		1" WIDE SURFACE MOUNTED LED LINEAR LIGHT	LED	277 V	DAY-O-LITE	PRFL-24-D-FL-40-HO-X-TRL-W-DIM10 ARKA-LL1SW-5.0-35-DRY-STD-DF-1S-BW-CLS-WH-CL2
							FIXTURE WITH WHITE LENS AND CORNER MOUNT CHANNEL. LENGTH AS SHOWN ON DRAWINGS.	500 LM / FT 0-10V DIMMING 4000 K	5 W	QTRAN OMNI LIGHT	SST-ST-XX' DRIVER GEN2-35-HO-XX OCH-006-XX-OM-APO-XX-E-24
	LED POLE MOUNTED LIGHT FIXTURE WITH TYPE 5 DISTRIBUTION AND 20', NON-TAPERED STEEL POLE.	LED 20,000 LM 0-10 V DIMMING	277 V 185 W	MCGRAW-EDISON	GLAN-SA2C-740-U-T5-SCBA-SPB2-SSP20 (MCGR, KW)-HSS	(LS1)				KELVIX	006 I **" DK 35K WHR CP SV ULV
_		0-10 V DIMMING 4000 K		GARDCO	OPF-M-A14-740-T5M-AR1-UNV-STANDARD FINISH-HSS					XICO	CHAC2-F-WH/RB-90-SWS220-5.0-35- 1-FI-*FT 0-10V DIMMING
(AP3)				LITHONIA	RSX2 LED P3 40K R5 MVOLT SPA HS NLTAIR2 PIRHN DDBXD / SSS 20 4C DM19AS DDBXD		5" W x 4' L SURFACE MOUNTED LED LINEAR LIGHT FIXTURE WITH WRAP AROUND LENS.	LED 4000 LM 0-10V DIMMING	277 V 40 W	KENALL	MLHA5 VPF4L LSL *FT MSL4 MIN10 50W 40K MVOLT OP WHT
				BEACON PRODUCTS, INC.	VP-2-320L-210-4K7-5QW-UNV-ASQU SCBA SSSB20 40A-1-B3-SCBA	LS2		4000 K		HE WILLIAMS	AVX-4-L62/840-CPC-(L50)-DIM-UNV
	LED POLE MOUNTED LIGHT FIXTURE WITH TYPE 2		077.)/				1" WIDE CORNER MOUNTED EXTERIOR LED LINEAR	LED	277 V	BEGHELLI	BS100LED-4HT-VLO-WT40-120-277V SW24/3.0-WET-40-BW-CLS-WH-CL2-XX'
	DISTRIBUTION, HOUSE SIDE SHIELD AND 20', NON-TAPERED STEEL POLE.	LED 20,000 LM 0-10 V DIMMING	277 V 185 W	MCGRAW-EDISON	GLAN-SA2C-740-U-T2-SCBA-SPB2-SSP20 (MCGR, KW)-HSS		LIGHT FIXTURE WITH WHITE LENS.	400 LM / FT 0-10V DIMMING	4 W	Q-TRAN OMNILIGHT	ARKA-SCBA-SST-DF-NI-XX' GEN2WL-41-SO-? OCH-005-?-FR-AL-APO-?-E-24
		4000 K		GARDCO	OPF-M-A14-740-T2M-AR1-UNV-STANDARD FINISH-HSS RSX2 LED P3 40K R2 MVOLT SPA HS NLTAIR2 PIRHN	LS3		4000 K		ACOLYTE LED	CHAC2-W-SCBA-RB-0-SWS265-3.0-40 / DRIVER
(AP4)					DDBXD / SSS 20 4C DM19AS DDBXD VP-2-320L-210-4K7-2-UNV-ASQU-SCBA		1" WIDE LED LINEAR SURFACE MOUNTED LIGHT	LED	277 V	QTRAN	SW-HE24/6.0-DRY-40-BW-BW-WH-BL2-XX'
				BEACON PRODUCTS, INC.	SHD 2-HSS-XXX-SCBA SSSB20-40A-1-B3-SCB		FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS.	750 LM / FT 0-10V DIMMING 4000 K	6 W / FT	OMNI LIGHT	WIDE-ST-SST-DF-NI-XX' QZ DRIVER GEN2-35-SHO-XX OCH-SCS-XX-OM-AL-APO-XX-E-24
	LED POLE MOUNTED LIGHT FIXTURE WITH TYPE 2	LED	277 V	MCGRAW-EDISON	GLAN-SA2C-740-U-T2-SCBA-SPB2-SSP12 (MCGR,	LS4				SCOUT	SS-SLR SQM M 35 W ** 1 E N 48 * *'
	DISTRIBUTION, HOUSE SIDE SHIELD AND 12', NON-TAPERED STEEL POLE.	10,000 LM 0-10 V DIMMING 4000 K	80 W		KW)-HSS					XICO	NSQ95-S-*FT-MWH-E1-OFL-S80-35-DLAM-75-UNV FD01-NN-RLDB-NN-SC1- FACTORY MITERED CORNER
(AP5)				GARDCO	OPF-M-A14-740-T2M-AR1-UNV-STANDARD FINISH-HSS RSX2 LED P3 40K R2 MVOLT SPA HS NLTAIR2 PIRHN		NOT USED				
				BEACON PRODUCTS, INC.	DDBXD / SSS 12 4C DM19AS DDBXD VP-2-320L-210-4K7-2-UNV-ASQU-SCBA	LS5					
					SHD 2-HSS-XXX-SCBA SSSB20-40A-1-B3-SCB						
	4" ROUND DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR	LED 1500 LM	277 V 15 W	HALO COMM	HC4		4 WALL MOUNTED LED LINEAR LIGHT FIXTURE WITH 2 x 2" PROFILE & WHITE LENS. DIRECT DISTRIBUTION ONLY	LED 1250 LM / FT NON-DIMMING	277 V 13 W / FT	NULITE	RW24-D-STF-12-L40-UNV-D-1-SCBA-XX'
		0-10 V DIMMING 4000 K		GOTHAM	LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW	(LW1)	ONLY	4000 K		BARTCO AXIS LIGHTING	BSS214 **' 40 D H WD SN SCBA B2SQWDLED-1000-80-40-SO-4-STANDARD
(DR1)				LIGHTOLIER	4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/					STARTEK	FINISH-UNV-DP-1 SLIMD-4-1000-SD-40K-80-PW-AWM-U-1C
					LFR-4RD-H		DECORATIVE LED PENDANT MOUNTED LIGHT FIXTURE.		277 V		2 652 XXX 4000/2
	4" ROUND DOWNLIGHT FIXTURE. WITH WHITE DEADFRONT LENS FOR SHOWER.	LED 1500 LM 0-10V-DIMMING	277 V 15 W	HALO COMM	HC4		3" W x 12" H	LED 1500 LM NON-DIMMING	15 W	OXYGEN EUREKA	3-653-XXX-4000K 4233-XB LED 40 277V DV C 36 RC SCBA SCBA WH
	DEADITION ELINOT ON ON ON ON ON ON	4000 K		Gotham	EVO4SH 40/15 DFR SOL MVOLT EZ1 4RN P4RSL15940MCDZ10U	(P1)		4000 K		LINDSLEY	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101
DR2				PRESCOLITE	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH- WTACL/LFR-4RD-H				077.1/		
DR2					WIAGL/LFR-4RD-H			LED	277 V 8 W / FT	ECOSENSE	Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8
DR2			277.\/		WTAGL/LFR-4RD-H		VERTICALLY MOUNTED 4' LONG PENDANT MOUNTED LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES.	400 LM / FT 0-10V DIMMING			
DR2	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR.	LED 700 LM 0-10V-DIMMING	277 V 8 W		NU3	P2	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE				OPT-CS-3-44-B-PS-X-NI 4'-840-VI -VI -1D-STANDARD
DR2 DR3	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE	700 LM	277 V 8 W	ALPHABET LITHONIA LIGHTOLIER		P2	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE	0-10V DIMMING		AYO LIGHTING	OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDARD FINISH-W
	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE	700 LM 0-10V-DIMMING	277 V 8 W	LITHONIA	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW	P2	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE	0-10V DIMMING	277 V 20 W	AYO LIGHTING ALPHABET	
	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE	700 LM 0-10V-DIMMING 4000 K LED 2000 LM	277 V 8 W 277 V 20 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U	P2 SC1	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES.	0-10V DIMMING 4000 K	277 V 20 W		FINISH-W
	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE.	700 LM 0-10V-DIMMING 4000 K	8 W 277 V	LITHONIA LIGHTOLIER CREATIVE SYSTEMS	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80		LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX	277 V 20 W		FINISH-W
DR3	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE.	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING	8 W 277 V	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10		LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW	20 W 277 V	ALPHABET	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W
DR3	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K	8 W 277 V 20 W 277 V	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U NU4	(SC1)	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW	20 W	ALPHABET AQUARII	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X
DR3 DR4	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR.	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K	8 W 277 V 20 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U		LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW	20 W 277 V	ALPHABET AQUARII	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X
DR3	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING	8 W 277 V 20 W 277 V	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U U NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW	(SC1)	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K	20 W 277 V 8 W 277 V	ALPHABET AQUARII DALS	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC SWS48-CC
DR3 DR4	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT.	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K	8 W 277 V 20 W 277 V 15 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U U NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H	SC3	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K	20 W 277 V 8 W	ALPHABET AQUARII AQUARII DALS LIGHTWAY I METALUX LITHONIA	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH 4SNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET-U CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH
DR3	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K	8 W 277 V 20 W 277 V	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/	(SC1)	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K	20 W 277 V 8 W 277 V	ALPHABET AQUARII AQUARII AQUARII AQUARII I I I I I I I I I I I I I I I I I I	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH 4SNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET-U CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-L40/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W
DR3	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K	8 W 277 V 20 W 277 V 15 W 277 V 15 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U U NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC-	SC3	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K	20 W 277 V 8 W 277 V	ALPHABET AQUARII AQUARII DALS LIGHTWAY I METALUX LITHONIA	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH 4SNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET-U CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-L40/840-STANDARD
DR3 DR4 DR5	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K	8 W 277 V 20 W 277 V 15 W 277 V 15 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U U NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC-	SC3	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K	20 W 277 V 8 W 277 V	ALPHABET AQUARII AQUARII AQUARII AQUARII I I I I I I I I I I I I I I I I I I	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH 4SNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET-U CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-L40/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W
DR3 DR4 DR5	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM OF WHITE DMX RGBW LED 1500 LM	8 W 277 V 20 W 277 V 15 W 277 V 15 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET ALPHABET	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U U NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- NU4	SC3	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277V 277V	ALPHABET ALPHABET AQUARII AQUARII AQUARII AQUARII AQUARII AQUARII I I I I I I I I I I I I I I I I I I	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W W1 VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC SWS48-CC HECW-450-LED-01C-4-STANDARD FINISH CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-L40/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT LFRM 2X4 ALO8 SWW7 MVOLT M6
DR3 DR4 DR5	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 2" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR.	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED LED	8 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 20 W 277 V 20 W 277 V 20 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U VU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- UNV-DMX-RJ45 NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U	SC1 SC3 SL1	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277V 277V	ALPHABET ALPHABET AQUARII AQUARII AQUARII AQUARII AQUARII I I I I I I I I I I I I I I I I I I	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W W1 W2
DR3 DR4 DR5 DR6	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 2" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR.	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1500 LM DMX	8 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 20 W 277 V 20 W 277 V 20 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- UNV-DMX-RJ45 NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW	SC1 SC3 SL1	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K LED 4800 LM 0-10V DIMMING 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277V 277V	ALPHABET ALPHABET AQUARII AQUARII AQUARII AQUARII AQUARII AQUARII I I I I I I I I I I I I I I I I I I	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH VN-75-RGBW-18-D-STANDARD FINISH SWS48-CC SWS48-CC L L C L
DR3 DR4 DR5 DR6	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE. WITH 60-DEGREE BEAM, SEM-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR 1"X4" LED PENDANT HIGH BAY FIXTURE WITH WHITE	700 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 K	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 15 W 277 V 15 W 277 V 15 W 277 V 20 W 20 W 277 V 20 W 277 V 20 W 277 V 20 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U HV4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H KU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H KU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/	SC1 SC3 SL1	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K LED 4800 LM 0-10V DIMMING 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277V 48 W 277V 48 W 277V	ALPHABET AQUARII AQUARII AQUARII AQUARII DALS DALS LIGHTWAY LIGHTWAY LIGHTWAY LITHONIA HE WILLIAMS COLUMBIA LUXRITE LOUVERS LED LITHONIA GREEN IMAGE	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH VN-75-RGBW-18-D-STANDARD FINISH SWS48-CC SWS48-CC L C C L C L
DR3 DR4 DR5 DR6	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR 4" ROUND DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR	700 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 1500 LM DMX 4000 K	8 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 15 W 277 V 15 W 277 V 15 W 277 V 15 W	LITHONIALIGHTOLIERCREATIVE SYSTEMSALPHABETLITHONIALIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEALPHABETGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEPRESCOLITEMETALUXMETALUX	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H OHB-30SE-MFL-UNV-L840-CD-U OHB-30SE-MFL-UNV-L840-CD-U CPHB 48000LM SEF GCL WD MVOLT GZ10 40K	SC1 SC3 SL1 TR1	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K LED 4800 LM 0-10V DIMMING 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277V 48 W 277V 48 W 277V	ALPHABET ALPHABET AQUARII AQUA	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH VN-75-RGBW-18-D-STANDARD FINISH SWS48-CC SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-140/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT LFRM 2X4 AL08 SWW7 MVOLT M6 GN-SFL-24-45-A-35 LR22187-4000K LI-GRD-22-CCT LI-GRD-22-CCT
DR3 DR4 DR5 DR5	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE. WITH 60-DEGREE BEAM, SEM-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR 1"X4" LED PENDANT HIGH BAY FIXTURE WITH WHITE	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1500 LM DMX 4000 K LED 1500 LM DMX 4000 K	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 15 W 277 V 15 W 277 V 15 W 277 V 20 W 20 W 277 V 20 W 277 V 20 W 277 V 20 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 MU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4 LDN4-RJ-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- UNV-DMX-RJ45 NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H UNV-UNX-RJ45 OHB-30SE-MFL-UNY-L840-CD-U	SC1 SC3 SL1 TR1	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K LED 4800 LM 0-10V DIMMING 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277V 48 W 277V 48 W 277V	ALPHABET ALPHABET AQUARII AQUA	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH L VL-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH L VL-2000 L CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-140/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS L LR24187-4000K LI-GRD-24-CCT LFRM 2X4 AL08 SWW7 MVOLT M6 GN-SFL-24-45-A-35 LI-GRD-22-CCT LI-GRD-22-CCT <
DR3 DR4 DR5 DR6 DR7	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE. WITH 60-DEGREE BEAM, SEM-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR 1"X4" LED PENDANT HIGH BAY FIXTURE WITH WHITE	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1500 LM DMX 4000 K LED 1500 LM DMX 4000 K	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 15 W 277 V 15 W 277 V 15 W 277 V 20 W 20 W 277 V 20 W 277 V 20 W 277 V 20 W	LITHONIALIGHTOLIERCREATIVE SYSTEMSALPHABETLITHONIALIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEALPHABETGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEMETALUXLITHONIALITHONIA	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 Image: Comparison of the system	SC1 SC3 SL1 (TR1) (TR2)	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K LED 4800 LM 0-10V DIMMING 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277 V 12 W / FT 277 V 48 W 277 V 33 W 277 V 277 V	ALPHABET ALPHABET AQUARII AQUA	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH 4SNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET-U CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-L40/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT LFRM 2X4 ALO8 SWW7 MVOLT M6 GN-SFL-24-45-A-35 LR22187-4000K LI-GRD-22-CCT LFRM 2X2 ALO8 SWW7 MVOLT M6 GN-SFL-22-45-A-35
DR3 DR4 DR5 DR5 DR6	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE. WITH 60-DEGREE BEAM, SEM-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR 1"X4" LED PENDANT HIGH BAY FIXTURE WITH WHITE	700 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 K	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 15 W 277 V 15 W 277 V 15 W 277 V 20 W 20 W 277 V 20 W 277 V 20 W 277 V 20 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE METALUX COLUMBIA COLUMBIA	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 MU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- UNV-DMX-RJ45 NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- UNV-DMX-RJ45 OHB-30SE-MFL-UNV-L840-CD-U CHB-30SE-MFL-UNV-L840-CD-U CPHB 48000LM SEF GCL WD MVOLT GZ10 40K SOCRI DWH GH-4-L300/840-FA-DIM-UNV PELA-840-L30-B-ED-U-PM S122DP	SC1 SC3 SL1 TR1	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES. LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K LED 4800 LM 0-10V DIMMING 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277 V 12 W / FT 277 V 48 W 277 V 33 W 277 V 277 V	ALPHABET ALPHABET AQUARII AQUA	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-140/840-STANDARD FINISH-DIM-UNV-0W-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT LFRM 2X4 ALO8 SWW7 MVOLT M6 GN-SFL-24-45-A-35 LI-GRD-22-CCT LI-GRD-22-CCT LFRM 2X2 ALO8 SWW7 MVOLT M6 GN-SFL-22-45-A-35 Z2CGTX-35-L840 22CGTX-35-L840 2FPZ33L835-4-DS-UNV-DIM
DR3 DR4 DR5 DR5 DR6 DR7	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE. WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH AND REFLECTOR. 1"X4' LED PENDANT HIGH BAY FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR 1"X4' LED PENDANT HIGH BAY FIXTURE WITH WHITE LENS AND IK10 RATING. PENDANT MOUNTED LED LINEAR LIGHT FIXTURE. WITH WHITE	 700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1500 LM DMX 4000 K LED LED 200 LM OF WHITE DMX A000 K LED LED 1500 LM DMX 4000 K LED LED S0,000 LM NON-DIMMING 4000 K 	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 15 W 277 V 285 W 277 V 285 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE METALUX LITHONIA HE WILLIAMS COLUMBIA CORELITE FINELITE	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-I0-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U RU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U IPR-4RD-M-15L04AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H NU4 NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- UNV-DMX-RJ45 INU4 NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT7/ LFR-4RD-H OHB-30SE-MFL-UNV-L840-CD-U CPHB 48000LM SEF GCL WD MVOLT GZ10 40K MWH GH-4-L300/840-FA-DIM-UNV PELA-840-L30-B-ED-U-PM S122DP HP X P D * V 840 F 277 SC FC-1% FA50 ** FE SCBA TB2DLED-1000-80-40-SO-XX-STANDARD	SC1 SC3 SL1 (TR1) (TR2)	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' LED FLAT PANEL WITH SMOOTH WHITE LENS. EXTERIOR WALL MOUNTED LED ROUND CYLINDER.	0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K LED 4800 LM 0-10V DIMMING 4000 K LED 3300 LM 0-10V DIMMING 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277 V 48 W 277 V 48 W 277 V 33 W 277 V 33 W 277 V 33 W	ALPHABET AQUARII AQUARII DALS IUGHTWAY IIGHTWAY ILIGHTWAY ILIGHTWAY ILIGHTWAY ILIGHTWAY ILITHONIA RETALUX LUXRITE LOUVERS LED LITHONIA GREEN IMAGE ILUXRITE LOUVERS LED LITHONIA GREEN IMAGE METALUX LITHONIA GREEN IMAGE ILITHONIA GREEN IMAGE ILITHONIA I	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH 4SNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET-U CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-140/840-STANDARD FINISH-DIM-UNV-0W-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT LFRM 2X4 AL08 SWW7 MVOLT M6 GN-SFL-22-45-A-35 LR22187-4000K LI-GRD-22-CCT LFRM 2X2 AL08 SWW7 MVOLT M6 GN-SFL-22-45-A-35 22CGTX-35-L840 22CGTX-35-L840 2FPZ33L835-4-DS-UNV-DIM CPX 2X3 3300LM 80CRI 35K SWL MIN1 ZT MVOLT CBT22-A-LSCS-EDD-2PK (1) LERUD6C40D010 (2) EC6C40609040
DR3 DR4 DR5 DR5 DR6 DR7 HB1	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE. WITH 60-DEGREE BEAM, SEMI-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH AND REFLECTOR. 1"X4' LED PENDANT HIGH BAY FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR 1"X4' LED PENDANT HIGH BAY FIXTURE WITH WHITE LENS AND IK10 RATING. PENDANT MOUNTED LED LINEAR LIGHT FIXTURE. WITH WHITE	700 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 KLED 1000 LM A000 KLED 1000 LM / FT 0-10V DIMMING	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 15 W 277 V 285 W 277 V 285 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE METALUX COLUMBIA COLUMBIA	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/	SC1 SC3 SL1 TR1 TR2 TR3	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' LED FLAT PANEL WITH SMOOTH WHITE LENS.	0-10V DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 1000 LM NON-DIMMING 4000 KLED 1250 LM / FT NON-DIMMING 4000 KLED 4800 LM 0-10V DIMMING 4000 KLED 3300 LM 0-10V DIMMING 4000 KLED 1000 LM UP 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277 V 48 W 277 V 48 W 277 V 33 W 277 V 33 W 277 V 33 W	ALPHABET AQUARII AQUARII DALS DALS IIGHTWAY IIGHTWAY ILIGHTWAY ILIGHTWAY ILIGHTWAY ILIGHTWAY ILITHONIA RETALUX LUXRITE LOUVERS LED LITHONIA GREEN IMAGE IUXRITE LOUVERS LED LITHONIA GREEN IMAGE METALUX LITHONIA GREEN IMAGE ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-140/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT LFRM 2X4 AL08 SWW7 MVOLT M6 GN-SFL-24-45-A-35 LR22187-4000K LI-GRD-22-CCT LFRM 2X2 AL08 SWW7 MVOLT M6 GN-SFL-24-45-A-35 Z2CGTX-35-L840 Z2CGTX-35-L840 ZFPZ33L835-4-DS-UNV-DIM CPX 2X3 3300LM 80CRI 35K SWL MIN1 ZT MVOLT CBT22-A-LSCS-EDD-2PK
DR3 DR4 DR5 DR5 DR6 DR7 HB1	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, SEM-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR 1"X4" LED PENDANT HIGH BAY FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR 1"X4" LED PENDANT HIGH BAY FIXTURE WITH WHITE LENS AND IK10 RATING. PENDANT MOUNTED LED LINEAR LIGHT FIXTURE. WITH 2"X2" PROFILE. LENGTH AS SHOWN ON DRAWINGS. PENDANT MOUNTED LED LINEAR LIGHT FIXTURE WITH 3.5"X3.5" PROFILE. LENGTH AS SHOWN ON DRAWINGS.	700 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 KLED 1500 LM DMX 4000 KLED 1000 LM / FT 0-10V DIMMING 4000 KLED 1000 LM / FT 0-10V DIMMING 4000 K	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 15 W 277 V 285 W 277 V 285 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE GOTHAM LIGHTOLIER PRESCOLITE GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE METALUX LITHONIA LIGHTOLIER PRESCOLITE COTHAM LIGHTOLIER PRESCOLITE COTHAM LIGHTOLIER FINELITE AXIS LIGHTING LUMENWERX FLUXWERX	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4- NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- UNV-DMX-RJ45 NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H OHB-30SE-MFL-UNV-L840-CD-U CPHB 48000LM SEF GCL WD MVOLT GZ10 40K 80CRI DWH GH-4.1300/840-FA-DIM-UNV PELA-840-L30-B-ED-U-PM S122DP HP X P D " V 840 F 277 SC FC-1% FA50 ** FE SCBA TB2DLED-1000-80-40-SO-XX-STANDARD FINISH-UNV-DP-1-CA36 FOR4PD-22-HLO-LED-80-1000-40-UNV-D1-1-5SWAC36-W	SC1 SC3 SL1 (TR1) (TR2)	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' LED FLAT PANEL WITH SMOOTH WHITE LENS. EXTERIOR WALL MOUNTED LED ROUND CYLINDER.	0-10V DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 1000 LM NON-DIMMING 4000 KLED 1250 LM / FT NON-DIMMING 4000 KLED 4800 LM 0-10V DIMMING 4000 KLED 3300 LM 0-10V DIMMING 4000 KLED 1000 LM UP 4000 LM DN	20 W 277 V 8 W 277 V 12 W / FT 277 V 48 W 277 V 48 W 277 V 33 W 277 V 33 W 277 V 33 W	ALPHABET AQUARII AQUARII DALS DALS I METALUX LIGHTWAY I METALUX LITHONIA HE WILLIAMS COLUMBIA I LUXRITE LOUVERS LED LITHONIA GREEN IMAGE I METALUX ITHONIA GREEN IMAGE I DAYBRITE LITHONIA PORTFOLIO I PORTFOLIO	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W WIN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH L VIN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X NECW-450-LED-01C-4-STANDARD FINISH L L VIN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X NECW-450-LED-01C-4-STANDARD FINISH L CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-L40/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT LFRM 2X4 AL08 SWW7 MVOLT M6 GN-SFL-24-45-A-35 LR22187-4000K LI-GRD-22-CCT LFRM 2X2 AL08 SWW7 MVOLT M6 GN-SFL-22-45-A-35 LI-GRD-22-CCT LFRM 2X2 AL08 SWW7 MVOLT M6 GN-SFL-22-45-A-35 Z2CGTX-35-L840 2FPZ33L835-4-DS-UNV-DIM CPX 2X3 3300LM 80CRI 35K SWL MIN1 ZT MVOLT CBT22-A-LSCS-EDD-2PK (1) LERUD6C40D010 (2) EC6C40609040 (1) LERUD6C40D0101 (2) EC6C40609040 (1) LERUBC40D0101 (2) EC6C40609040 <t< td=""></t<>
DR3 DR4 DR5 DR5 DR6 DR7 HB1	2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE. WITH WHITE TRIM AND REFLECTOR. 4" ROUND EXTERIOR RATED LED DOWNLIGHT FIXTURE. WITH 60-DEGREE BEAM, SEM-SPECULAR REFLECTOR AND CUSTOM COLOR TRIM TO MATCH EXTERIOR SOFFIT. 4" ROUND RGBW LED DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" ROUND DOWNLIGHT FIXTURE WITH 20-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 1"X4' LED PENDANT HIGH BAY FIXTURE WITH 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR 1"X4' LED PENDANT HIGH BAY FIXTURE WITH WHITE LENS AND IK10 RATING. PENDANT MOUNTED LED LINEAR LIGHT FIXTURE. WITH 2'X2" PROFILE. LENGTH AS SHOWN ON DRAWINGS. PENDANT MOUNTED LED LINEAR LIGHT FIXTURE WITH 2'X2" PROFILE. LENGTH AS SHOWN ON DRAWINGS.	700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 1500 LM NON-DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1500 LM DMX 4000 K LED 1500 LM DMX 4000 K LED 30,000 LM NON-DIMMING 4000 K LED 1000 LM / FT 0-10V DIMMING 4000 K LED 1000 LM / FT 0-10V DIMMING 4000 K	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 20 W 277 V 285 W 277 V 285 W 277 V 285 W 277 V 20 W	LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE PRESCOLITE METALUX LIGHTOLIER PRESCOLITE COLUMBIA COLUMBIA COLUMBIA	NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U A3-NC-R-ST-10-S-SHB/A3-40-90-R-ST-WT-ST-SA-NL-80 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 4SN P4SLW20940WCDZ10U 4SN P4SLW20940WCDZ10U LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4 NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- UNV-DMX-RJ45 NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H OHB-30SE-MFL-UNV-L840-CD-U CHH8 48000LM SEF GCL WD MVOLT GZ10 40K MCR DWH GH-4-L300/840-FA-DIM-UNV PEL-840-L30-B-ED-U-PM S122DP HP X P D * V 840 F 277 SC FC-1% FA50 ** FE SCBA TB2DLED-1000-80-40-SO-XX-STANDARD FINISH-UNV-DP-1-CA36 FOR4PD-22-HLO-LED-80-1000-40-UNV-D1-1-5SWAC36-W <td>SC1 SC3 SL1 TR1 TR2 TR3</td> <td>LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' LED FLAT PANEL WITH SMOOTH WHITE LENS. EXTERIOR WALL MOUNTED LED ROUND CYLINDER.</td> <td>0-10V DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 1000 LM NON-DIMMING 4000 KLED 1250 LM / FT NON-DIMMING 4000 KLED 4800 LM 0-10V DIMMING 4000 KLED 3300 LM 0-10V DIMMING 4000 KLED 1000 LM UP 4000 K</td> <td>20 W 277 V 8 W 277 V 12 W / FT 277 V 48 W 277 V 48 W 277 V 33 W 277 V 33 W 277 V 33 W</td> <td>ALPHABET AQUARII AQUARII DALS DALS IIGHTWAY IIGHTWAY ILIGHTWAY ILIGHTWAY ILIGHTWAY ILIGHTWAY ILITHONIA RETALUX LUXRITE LOUVERS LED LITHONIA GREEN IMAGE IUXRITE LOUVERS LED LITHONIA GREEN IMAGE METALUX LITHONIA GREEN IMAGE ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA</td> <td>FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH 4SNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET-U CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-140/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT LFRM 2X4 AL08 SWW7 MVOLT M6 GN-SFL-24-45-A-35 LR22187-4000K LI-GRD-22-CCT LFRM 2X2 AL08 SWW7 MVOLT M6 GN-SFL-22-45-A-35 22CGTX-35-L840 22PZ33L835-4-DS-UNV-DIM CPX 2X3 3300LM 80CRI 35K SWL MIN1 ZT MVOLT CBT22-A-LSCS-EDD-2PK (1) LERUD6C40D010 (2) EC6C40609040</td>	SC1 SC3 SL1 TR1 TR2 TR3	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LED RGBW WALL MOUNTED CYLINDER WITH 20-DEGREE BEAM. DIRECT DISTRIBUTION ONLY. 4' HIGH BY 4" WIDE BACKLIT LED EXTERIOR WALL SCONCE. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE. 2'X2' LED FLAT PANEL WITH SMOOTH WHITE LENS. EXTERIOR WALL MOUNTED LED ROUND CYLINDER.	0-10V DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 1000 LM NON-DIMMING 4000 KLED 1250 LM / FT NON-DIMMING 4000 KLED 4800 LM 0-10V DIMMING 4000 KLED 3300 LM 0-10V DIMMING 4000 KLED 1000 LM UP 4000 K	20 W 277 V 8 W 277 V 12 W / FT 277 V 48 W 277 V 48 W 277 V 33 W 277 V 33 W 277 V 33 W	ALPHABET AQUARII AQUARII DALS DALS IIGHTWAY IIGHTWAY ILIGHTWAY ILIGHTWAY ILIGHTWAY ILIGHTWAY ILITHONIA RETALUX LUXRITE LOUVERS LED LITHONIA GREEN IMAGE IUXRITE LOUVERS LED LITHONIA GREEN IMAGE METALUX LITHONIA GREEN IMAGE ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA ILITHONIA	FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH 4SNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET-U CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CRI WH 6CR-TL-140/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT LFRM 2X4 AL08 SWW7 MVOLT M6 GN-SFL-24-45-A-35 LR22187-4000K LI-GRD-22-CCT LFRM 2X2 AL08 SWW7 MVOLT M6 GN-SFL-22-45-A-35 22CGTX-35-L840 22PZ33L835-4-DS-UNV-DIM CPX 2X3 3300LM 80CRI 35K SWL MIN1 ZT MVOLT CBT22-A-LSCS-EDD-2PK (1) LERUD6C40D010 (2) EC6C40609040

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	18"W x 18"H x 4"D EXTERIOR LED WALL PACK WITH TYPE 4 DISTRIBUTION. CUSTOM COLOR TO MATCH	LED 9.000 LM	277V 56 W	PERFORMANCE IN LTG	M50-M-53-T3-CCBA-40K-UNV-0-10V
	BUILDING FINISHES.	0-10V DIMMING 4000 K		GARDCO	GBM-A12-840-T4M-UNV-CC
WP2		4000 K		LITHONIA	WDGE3 LED P3 40K 70CRI R4 MVOLT SRM CCBA
				SOLERA	ACER-C-18-57W-LED-UNV-4000K-DM-D-WM- TYPE IV-COLOR MINITEX BLK
\sim	EXTERIOR WALL MOUNTED LED ROUND CYLINDER.		277 V		
	13-DEGREE BEAM UP. INDIRECT DISTRIBUTION ONLY.	1000 LM UP 0-10V DIMMING 4000 K	15 W	PORTFOLIO	LERUD6C40D010
(WP3)					
				KIRLIN	LWC
	I SINGLE SIDED LED DIE CAST EXIT SIGN WITH GREEN	Franci	how have	ABB INSTALLATION PRODUCTS	
	LETTERS. AC ONLY.		5W	ISOLITE	EDC AC G U SCBA SCBA MTEBP
X1				MULE	MD-A-1-G-BA
				COMPASS	CCESG
	LED DIE CAST DOUBLE SIDED EXIT SIGN. WHITE WITH	LED	277 V	EVENLITE	CCDS-AC-G-2-SCBA-XX
	GREEN LETTERS. AC ONLY.		5W	LITHONIA	LQCW2G
X2				MULE	MD-A-U-G-WW
	LED DIE CAST EXIT SIGN WITH WIRE GUARD. WHITE	LED	277 V	EVENLITE	CCDS-AC-G-1-SCBA-XX-M990010
	WITH GREEN LETTERS. AC ONLY.		5W	LITHONIA	LQC W 1 G / ELAWG1
(X3)				MULE	MD-A-U-G-WW WG1
	LED DIE CAST DOUBLE SIDED EXIT SIGN WITH GREEN	LED	277 V	EVENLITE	SOV-AC-G-2M-SCBA-UC
	LETTERS. END MOUNTED. AC ONLY.		5W	LITHONIA	EDG 2 GMR
X4				MULE	MD-A-U-G-WW
. REFER TO THE	ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCAT			ERAL NOTES	IANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR
O BIDDING.	INTING HEIGHTS AND LOCATIONS OF ALL LIGHT FIXTURES				
. REFER TO THE	SPECIFICATIONS FOR OTHER LIGHT FIXTURE REQUIREM	ENTS.			
RCHITECT AND E	LABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND C ELECTRICAL ENGINEER PRIOR TO RELEASE.				
	LIGHT FIXTURES ARE TO BE 3500 K AND ALL EXTERIOR LIG FURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWI				DESCRIPTION.
. ALL LED SOUR	CES MUST MEET L80 AT 50,000 HRS MINIMUM UNLESS OTH MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO RI	ERWISE NOTED.			
	TURES ARE TO HAVE AN EFFICACY OF 80 LUMENS PER WA				
		BIDDING	G REQUIF	REMENTS	
	DUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDU				
3. WHEN ONLY O	F LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWEI NE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR RADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER	THAT ITEM SHALL BE	BROKEN OUT SEI	PARATELY WHEN SUBMITTING PRICING	
	LIGHT FIX	TURE PRIC	OR APPR	OVAL REQUIREMEN	TS
2. PRIOR APPROV	VAL IS REQUIRED BEFORE BIDDING THIS PROJECT. VALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEE	R'S OFFICE AT LEA	AST (8) WORKING	DAYS BEFORE BID TIME. PRIOR APPRO	OVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE
REJECTED. 3. ITEMS THAT AF	RE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTE		I(S). VFRRAI APPI		IY ITEM.
	RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTI				

ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN. 5. PRIOR APPROVALS SHALL CONSIST OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED. 6. LIGHTING PACKAGES WILL BE REVIEWED FOR GENERAL PROJECT COMPLIANCE ONLY. AN IN-DEPTH REVIEW OF ANY ALTERNATE FIXTURES WILL BE DONE DURING THE SUBMITTAL REVIEW PROCESS. ANY FIXTURES THAT ARE NOT TRULY EQUAL, AND / OR DO NOT COMPLY WITH ALL OF THE REQUIREMENTS CONTAINED IN THE CONTRACT DOCUMENTS, WILL NOT BE APPROVED.

		LIGH	ITING CONTROL PANEL	SCH	EDULE	
		PANEL NAME:	LCP1			
		LOCATION:	ELEC A120			
	TRANSFO	RMER VOLTAGE:	277			
		MOUNTING:	SURFACE			
		NEMA TYPE:	NEMA 1			
	RELAY	CIRCUIT	LOAD	POLES	METHOD OF	PROGRAMMING
	NO.	BREAKER	CONTROLLED	. 0110	CONTROL	REQUIREMENTS
	1	1HA1-2	SITE POLE LIGHTING	1	SWITCHED	
	\sim		MONUMENISIGNIJG	-1	SWIIGHED	\sim
2	3	1HA1-1	VESTIBULE COLUMN LTG	1	SWITCHED	
{	4	1HA1-1	FLAG POLE LIGHT	1	SWITCHED	
	Joseph Contraction of the second seco	1EHA1-2	EM LTG BUILDING EXTERIOR	-	SWITCHED	
	6		SPARE	1	SWITCHED	
	7		SPARE	1	SWITCHED	
	8		SPARE	1		
			PROGRAMMING REQUIRE	MENTS		
	A	TIME ON (6:00 AM	I) - TIME OFF (7:00 PM), 2 HOUR OVER	RIDE AT I	LOW VOLTAGE	SWITCH
-	В	TIME ON (5:00 AM	/) - TIME OFF (10:00 PM)			
	С	MANUAL ON - TIN	ME OFF (5:30 PM)			
-	D	MANUAL ON - MA	ANUAL OFF - SWEEP OFF AT END OF D	DAY (5:30	PM)	
-	E	TIME ON (7:30 AM	I) - MANUAL OFF - SWEEP OFF AT ENI	O OF DAY	(5:30 PM)	
-	F	PHOTO CELL ON	- PHOTO CELL OFF			
	G	PHOTO CELL ON	- TIMED OFF (9:00 PM), 2 HOUR OVER	RIDE AT I	LOW VOLTAGE	SWITCH
	NOT		E WITH THE ARCHITECT/OWNER FOR THE FINAL PROGRAMMING OF THE LIGH			

		L MAINENIBKLIGHTING	h	SWITCHED	
$\int \frac{1}{3}$	1HD1-4	MAIN ENTRY SIGN LIGHTING		SWITCHED	
للأسل	hin	min	hin	SWITCHED	him
5	1EHD1-3	EM LTG BUILDING EXTERIOR	1	SWITCHED]
6	1EHD1-7	EM LTG CORRIDOR D106		SWITCHED	
7				SWITCHED	-
	-	SPARE		SWITCHED	-
8	J	SPARE	1		
		PROGRAMMING REQUIRE			
A	· ·	M) - TIME OFF (7:00 PM), 2 HOUR OVEF	RRIDE AT	LOW VOLTAGE	SWITCH
В	TIME ON (5:00 AI	M) - TIME OFF (10:00 PM)			
C		ME OFF (5:30 PM)			
D	MANUAL ON - MA	ANUAL OFF - SWEEP OFF AT END OF I	DAY (5:30	PM)	
E	· · ·	M) - MANUAL OFF - SWEEP OFF AT EN	D OF DAY	((5:30 PM)	
F	PHOTO CELL ON	I - PHOTO CELL OFF			
G	PHOTO CELL ON	I - TIMED OFF (9:00 PM), 2 HOUR OVEF	RRIDE AT	LOW VOLTAGE	SWITCH
NO		E WITH THE ARCHITECT/OWNER FOR			
	PRIOR TO T	HE FINAL PROGRAMMING OF THE LIG	HTING CC	NTROL SYSTE	M.
	LIG	ITING CONTROL PANEI	L SCH	EDULE	
	PANEL NAME:	LCP4			
	LOCATION:				
TRANSFO	ORMER VOLTAGE:	277			
	MOUNTING:				
	NEMA TYPE:				
REI AY	CIRCUIT] []	METHOD OF	PROGRAMMING
RELAY NO.	CIRCUIT BREAKER	LOAD CONTROLLED	POLES	METHOD OF CONTROL	PROGRAMMING
NO.	11 1	CONTROLLED		CONTROL	
NO.	11 1	CONTROLLED SPARE	POLES	CONTROL SWITCHED	
NO.	11 1	CONTROLLED SPARE SPARE		CONTROL SWITCHED SWITCHED	
NO.	11 1	CONTROLLED SPARE SPARE SPARE		CONTROL SWITCHED SWITCHED SWITCHED	
NO. 1 2 3 4	11 1	CONTROLLED SPARE SPARE SPARE SPARE		CONTROL SWITCHED SWITCHED SWITCHED SWITCHED	
NO. 1 2 3 4 5	11 1	CONTROLLED SPARE SPARE SPARE SPARE SPARE		CONTROL SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED	
NO. 1 2 3 4 5 6	11 1	CONTROLLED SPARE SPARE SPARE SPARE SPARE SPARE		CONTROL SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED	
NO. 1 2 3 4 5 6 7	11 1	CONTROLLED SPARE SPARE SPARE SPARE SPARE SPARE SPARE		CONTROL SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED	
NO. 1 2 3 4 5 6 7 8	11 1	CONTROLLED SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE		CONTROL SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED	
NO. 1 2 3 4 5 6 7 8 9	11 1	CONTROLLED SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE		CONTROL SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED	
NO. 1 2 3 4 5 6 7 8 9 10	11 1	CONTROLLED SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE		CONTROL SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED	
NO. 1 2 3 4 5 6 7 8 9 10 11	11 1	CONTROLLED SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE		CONTROL SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED	
NO. 1 2 3 4 5 6 7 8 9 10 11 12	11 1	CONTROLLED SPARE		CONTROL SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED	
NO. 1 2 3 4 5 6 7 8 9 10 11 12 13	11 1	CONTROLLED SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE		CONTROL SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED SWITCHED	
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LIGHTING CONTROL PANEL SCHEDULE

LOAD CONTROLLED

 1
 1HD1-11
 BUILDING EXTERIOR LIGHTING
 1
 SWITCHED

POLES METHOD OF CONTROL PROGRAMMING REQUIREMENTS

PANEL NAME: LCP2

MOUNTING: SURFACE NEMA TYPE: NEMA 1

TRANSFORMER VOLTAGE: 277

RELAY CIRCUIT NO. BREAKER

LOCATION: MAIN ELECTRICAL D138

	LIGH	ITING CONTROL PANE	_ SCH	EDULE	
	PANEL NAME:	LCP3			
	LOCATION:	ELEC D118			
TRANSFO	RMER VOLTAGE:	277			
	MOUNTING:	SURFACE			
	NEMA TYPE:	NEMA 1			
RELAY NO.	CIRCUIT BREAKER	LOAD CONTROLLED	POLES	METHOD OF CONTROL	PROGRAMMING
1	1HD2-13	AUXILLARY GYM LTG ZONE 'a'	1	SWITCHED	
2	1HD2-13	AUXILLARY GYM LTG ZONE 'c'	1	SWITCHED	
3	1HD2-13	AUXILLARY GYM LTG ZONE 'd'	1	SWITCHED	
4	1HD2-13	AUXILLARY GYM LTG ZONE 'f	1	SWITCHED	
5	1HD2-13	AUXILLARY GYM LTG ZONE 'g'	1	SWITCHED	
6	1HD2-15	GYM LTG ZONE 'a'	1	SWITCHED	
7	1HD2-15	GYM LTG ZONE 'c'	1	SWITCHED	
8	1HD2-7	GYM LTG ZONE 'e'	1	SWITCHED	
9	1HD2-7	GYM LTG ZONE 'f'	1	SWITCHED	
10	1HD2-17	SITE POLE LIGHTS	1	SWITCHED	
11	1HD2-19	BOLLARD LIGHTS (NIBLEY ONLY)	1	SWITCHED	
12		SPARE	1		
13	1EHD2-1	EM LTG BUILDING EXTERIOR	1	SWITCHED	
14	1EHD2-3	EM LTG AUX. GYM ZONE 'b'	1	SWITCHED	
15	1EHD2-3	EM LTG AUX. GYM ZONE 'e'	1	SWITCHED	
16	1EHD2-3	EM LTG AUX. GYM ZONE 'h'	1	SWITCHED	
17	1EHD2-3	EM LTG GYM ZONE 'b'	1	SWITCHED	
18	1EHD2-3	EM LTG GYM ZONE 'd'	1	SWITCHED	
19	1EHD2-3	EM LTG GYM ZONE 'g'	1	SWITCHED	
20		SPARE	1		
		PROGRAMMING REQUIRE	MENTS		
		M) - TIME OFF (7:00 PM), 2 HOUR OVER	RRIDE AT	LOW VOLTAGE	SWITCH
В	TIME ON (5:00 AM	M) - TIME OFF (10:00 PM)			
С	MANUAL ON - TI	ME OFF (5:30 PM)			
D	MANUAL ON - MA	ANUAL OFF - SWEEP OFF AT END OF [DAY (5:30	PM)	
E	TIME ON (7:30 AM	M) - MANUAL OFF - SWEEP OFF AT EN	D OF DAY	(5:30 PM)	
F	PHOTO CELL ON	I - PHOTO CELL OFF			
G	PHOTO CELL ON	I - TIMED OFF (9:00 PM), 2 HOUR OVER	RRIDE AT	LOW VOLTAGE	SWITCH

5

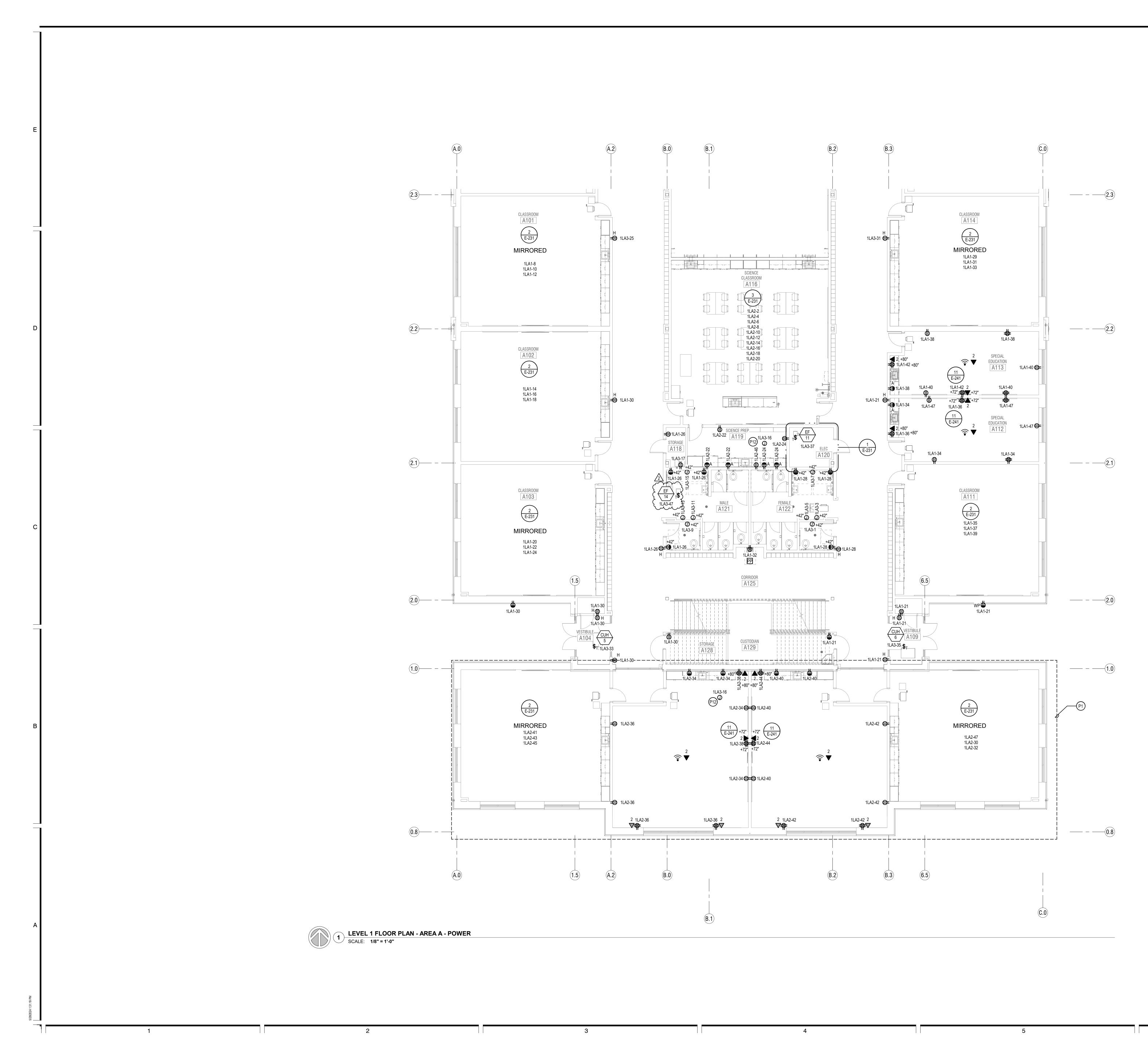
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CONSTRUCTION DOCUMENT

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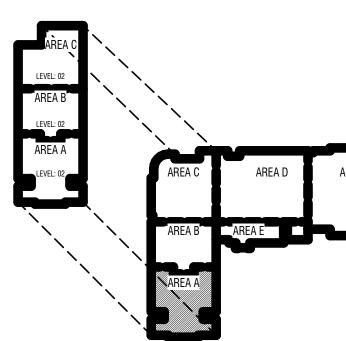
POWER GENERAL NOTES:

ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF GFCI. THE DIVISION 26 CONTRACTOR SHALL DETERMINE OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRE REPRESENTATION OF DEVICE LOCATIONS AND CO

KEYED NOTES (#)

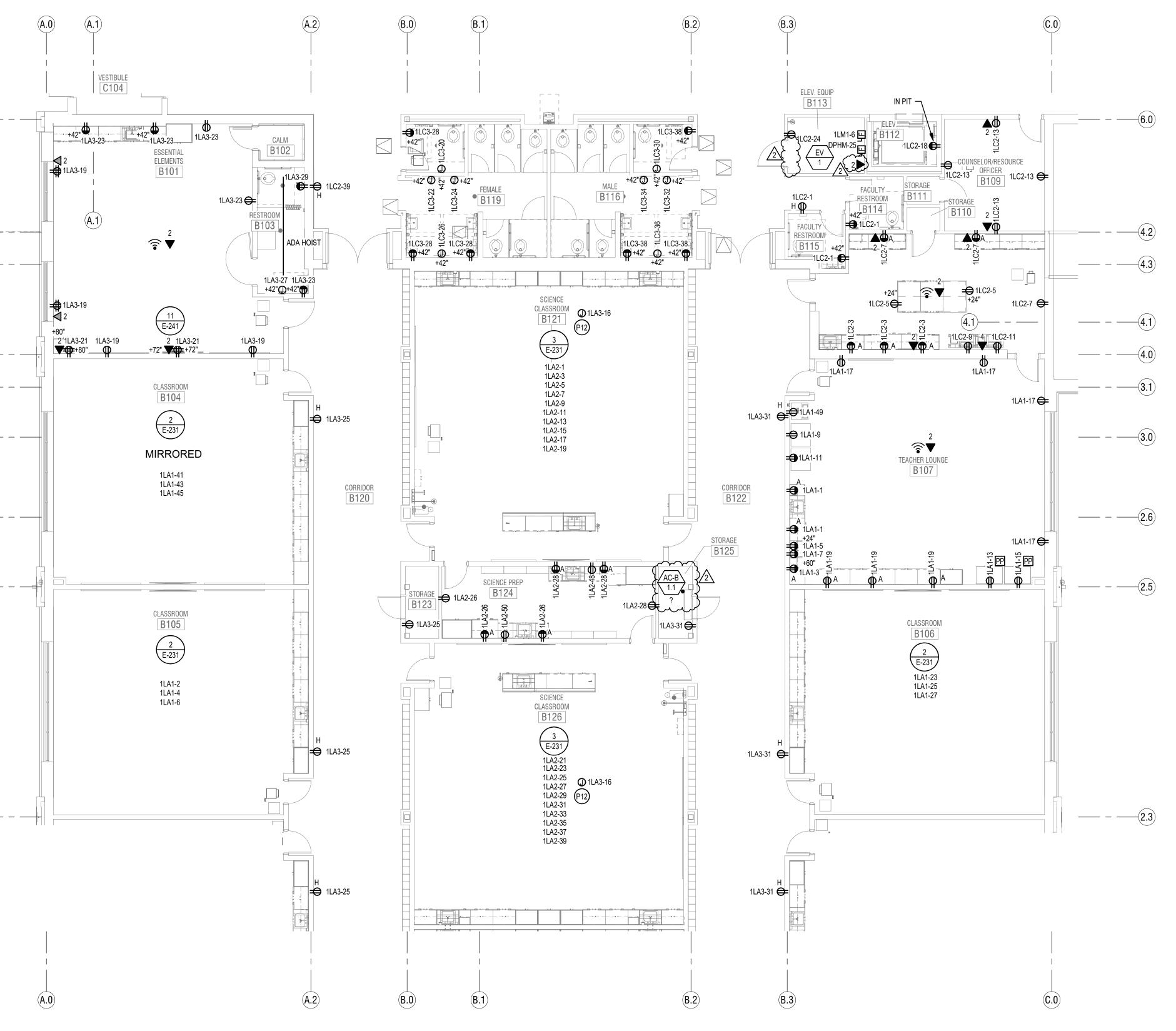
- UNDER THE BASE BID, INCLUDE ALL WORK IN THIS THE PLANS. UNDER ALTERNATE #1, THIS AREA WIL THE PROJECT. PROVIDE A SEPARATE COST TO BE FOR ALL WORK IN THIS AREA AS SHOWN ON THE P
- POWER FOR VAV BOX TRANSFORMER. COORDINA WITH MECHANICAL CONTRACTOR. P12





DF ANY SINK SHALL BE NE THE EXACT ROUTING RESENTS A SCHEMATIC CONDUIT RUNS. IS AREA AS SHOWN ON VILL BE REMOVED FROM BE ISSUED AS A CREDIT E PLANS. JATE EXACT LOCATION	design west architects 255 SOUTH 300 WEST LOGAN UT 84321 255 SOUTH 400 WEST SALT LAKE CITY UT 84103
	ENGINERING ENGINERING 240 E. MORRIS AVE. SUITE 200 SALT LAKE CITY, UT 84115 P (801) 534-1130 F (801) 534-1080 www.envisioneng.com
	HYDE PARK MIDDLE SCHOOL 250 W 200 S HYDE PARK, UTAH CACHE COUNTY SCHOOL DISTRICT
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5/28/2024 1:31:21 PM		
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REA B - POWER

POWER GENERAL NOTES:

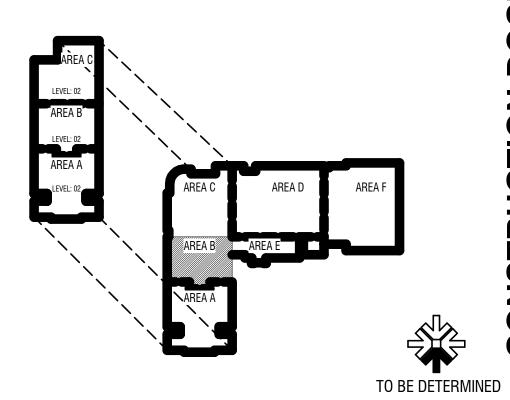
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KEYED NOTES (#)

POWER FOR VAV BOX TRANSFORMER. COORDINATE E WITH MECHANICAL CONTRACTOR. P12

KEY PLAN

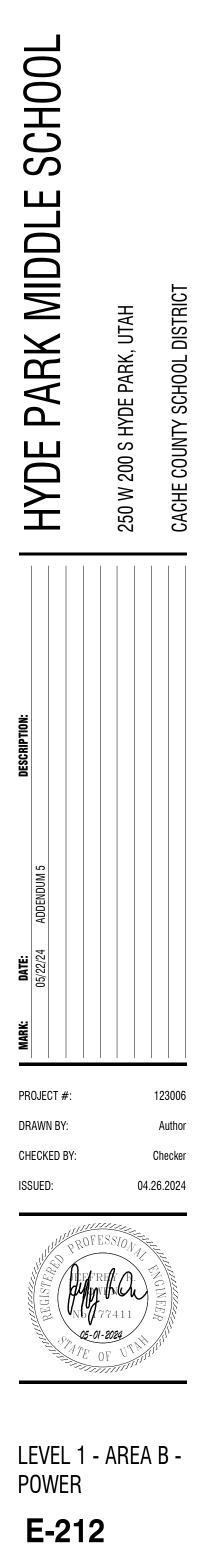
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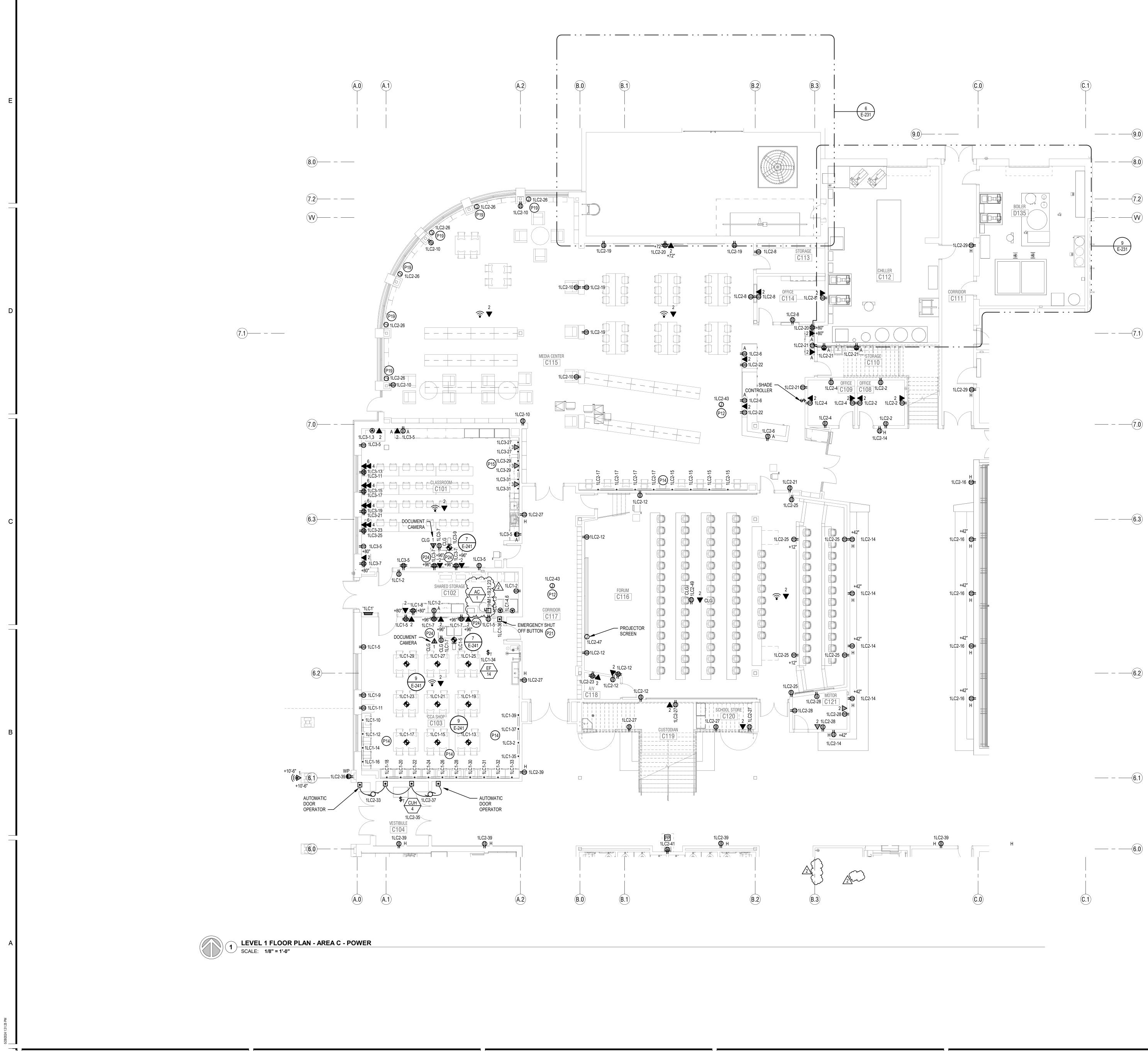
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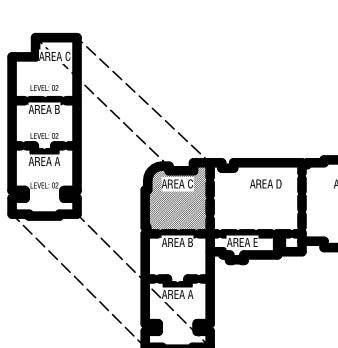
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POWER GENERAL NOTES:

1.	ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF AI GFCI.
2.	THE DIVISION 26 CONTRACTOR SHALL DETERMINE TO OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESE REPRESENTATION OF DEVICE LOCATIONS AND CON
<u>KEYE</u>	DNOTES (#)
P12	POWER FOR VAV BOX TRANSFORMER. COORDINATE WITH MECHANICAL CONTRACTOR.
P14	WIREMOLD.
P15	2-CHANNEL WIREMOLD WITH DATA.
P19	TIE THE SHADE MOTOR TO THE CIRCUIT INDICATED T MOTOR SWITCH IN THE MAIN OFFICE AREA. REFER T MANUFACTURER'S WIRING DIAGRAMS FOR ADDITION VERIFY THE LOCATION AND NUMBER OF CONTROLLE MOTORS WITH THE SUPPLIER.
P21	MUSHROOM TYPE EMERGENCY SHUT OFF BUTTON W PROTECTIVE COVER AND NORMALLY OPEN CONTAC MAIN BREAKER IN PANEL 1LC1.
P24	PROVIDE A 25 KW INVERTER WITH 480V, 3Ø INPUT AN TO POWER EMERGENCY LIGHTING PANELS.



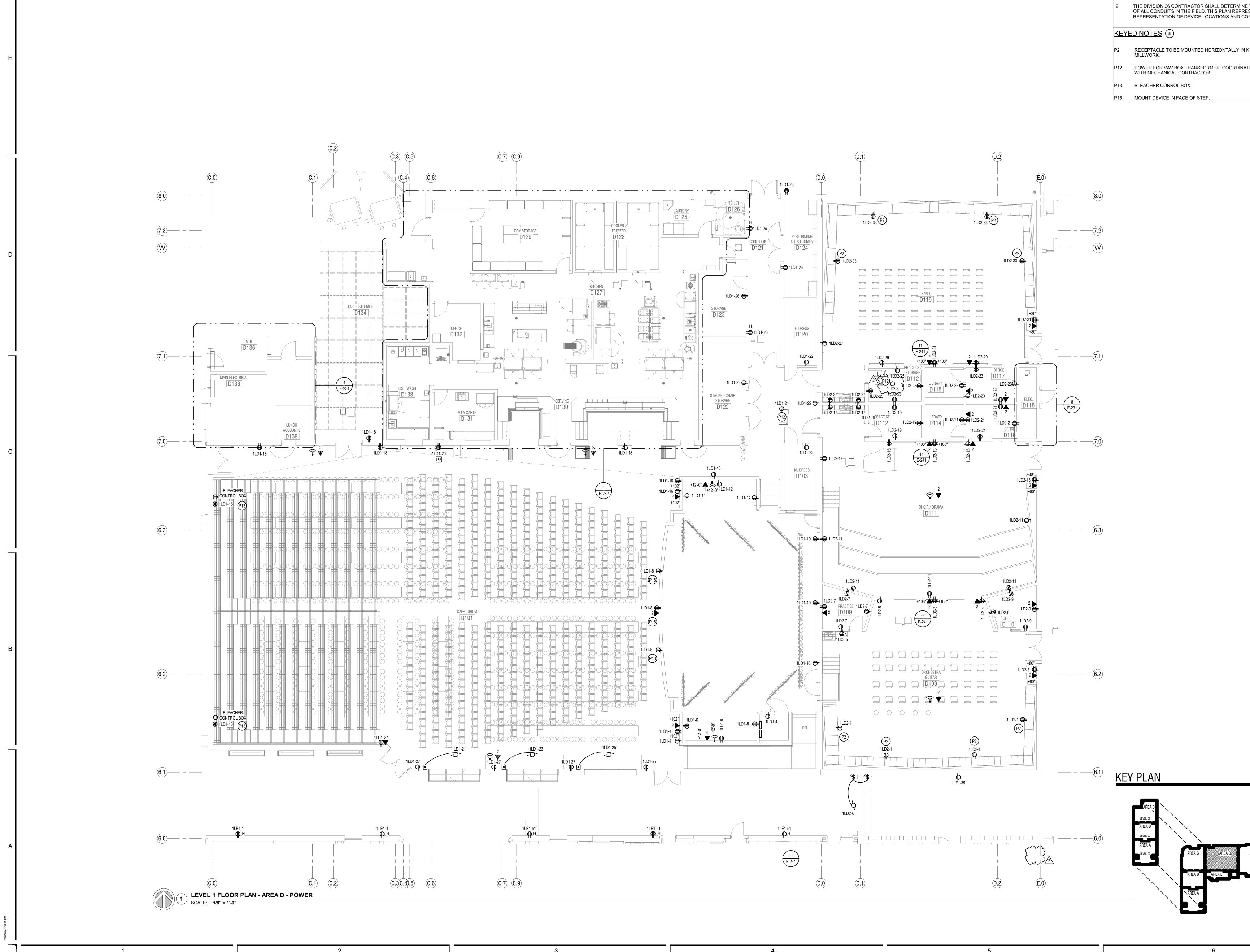
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ANY SINK SHALL BE THE EXACT ROUTING SENTS A SCHEMATIC NDUIT RUNS. TE EXACT LOCATION TE EXACT LOCATION	design west architects	255 SOUTH 300 WEST LOGAN UT 84321 795 NORTH 400 WEST SALT LAKE CITY UT 84103
A WITH CLEAR ACT. TIE TO SHUNT TRIP	ENVISION ENGINEERING 240 E. MORRIS AVE. SUITE 200	SALT LAKE CITY, UT 84115 P (801) 534-1130 F (801) 534-1080 www.envisioneng.com
	HYDE PARK MIDDLE SCHOOL	250 W 200 S HYDE PARK, UTAH
AREA F	ILEVEL 1 - POWER	12300 Auth Check 04.26.202

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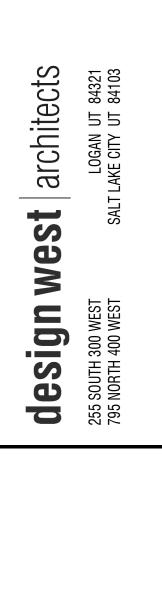


POWER GENERAL NOTES:

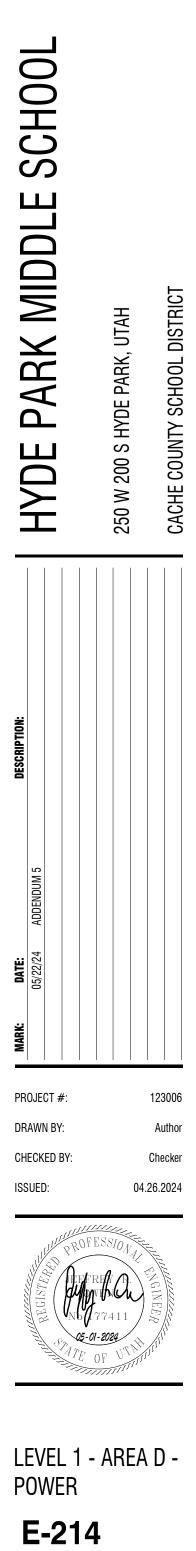
1.	ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF AN GFCI.	
2.	THE DIVISION 26 CONTRACTOR SHALL DETERMINE TH OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESE REPRESENTATION OF DEVICE LOCATIONS AND COND	
KEYED NOTES (#)		

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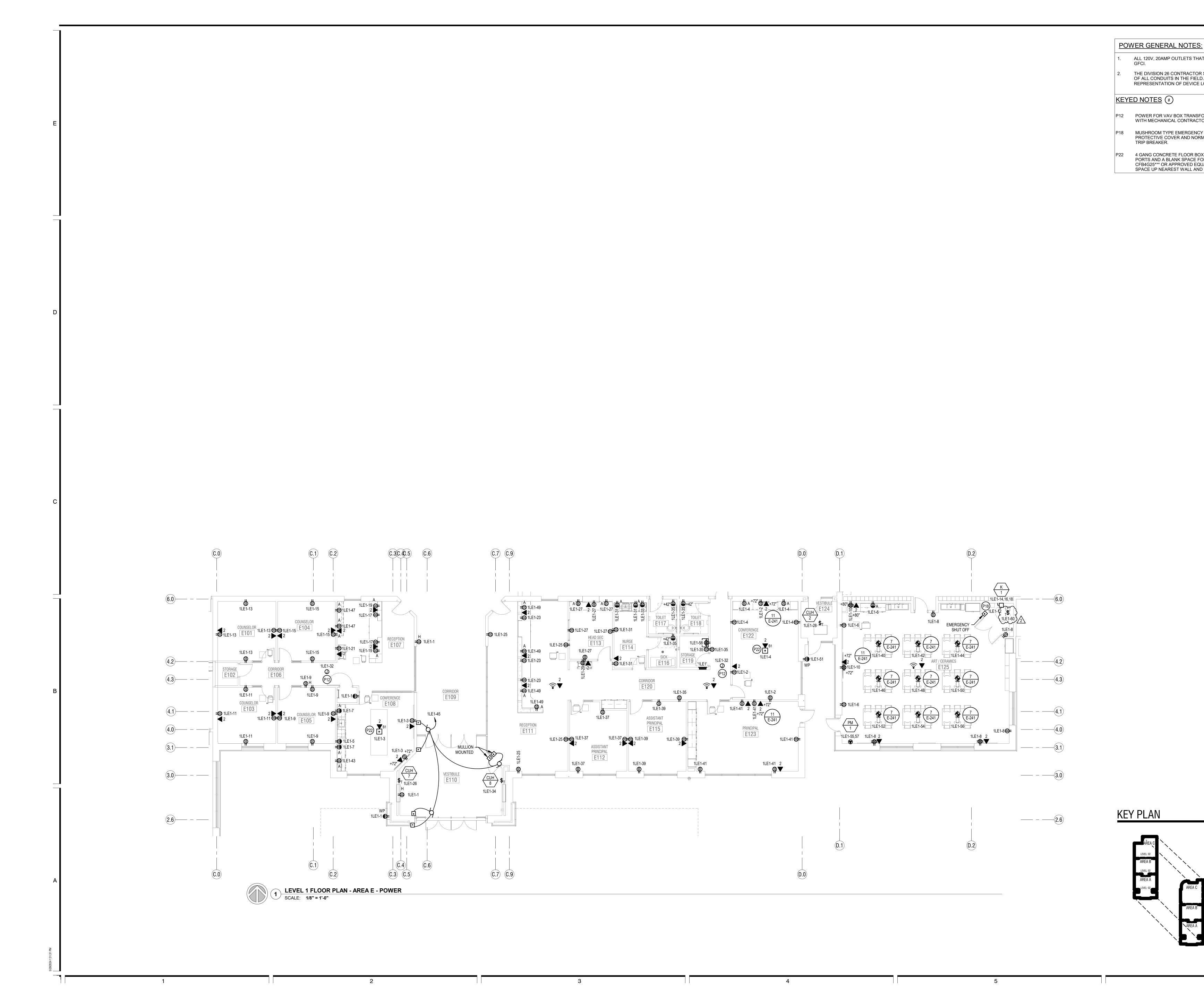
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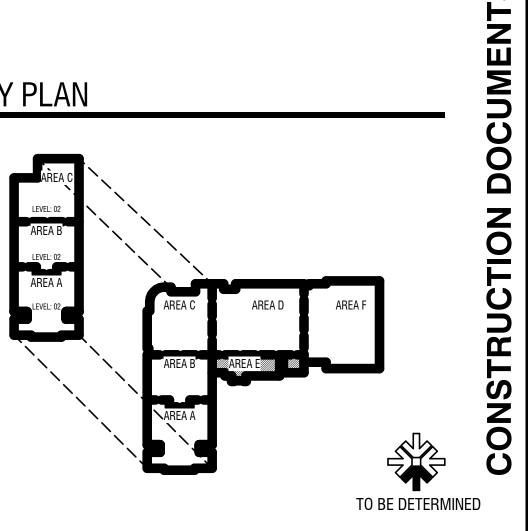
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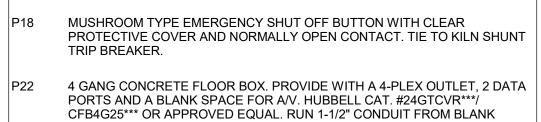
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KEY PLAN





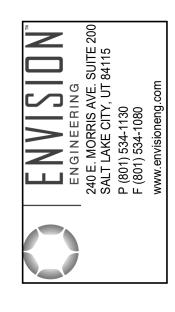
REPRESENTATION OF DEVICE LOCATIONS AND CONDUIT RUNS.

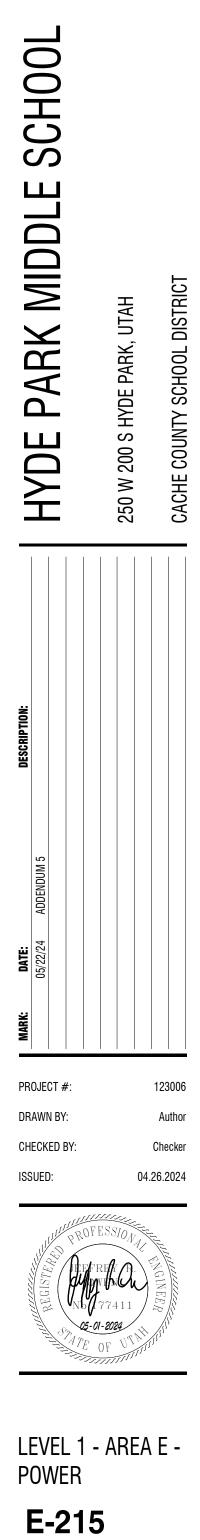
ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE GFCI.
THE DIVISION 26 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC

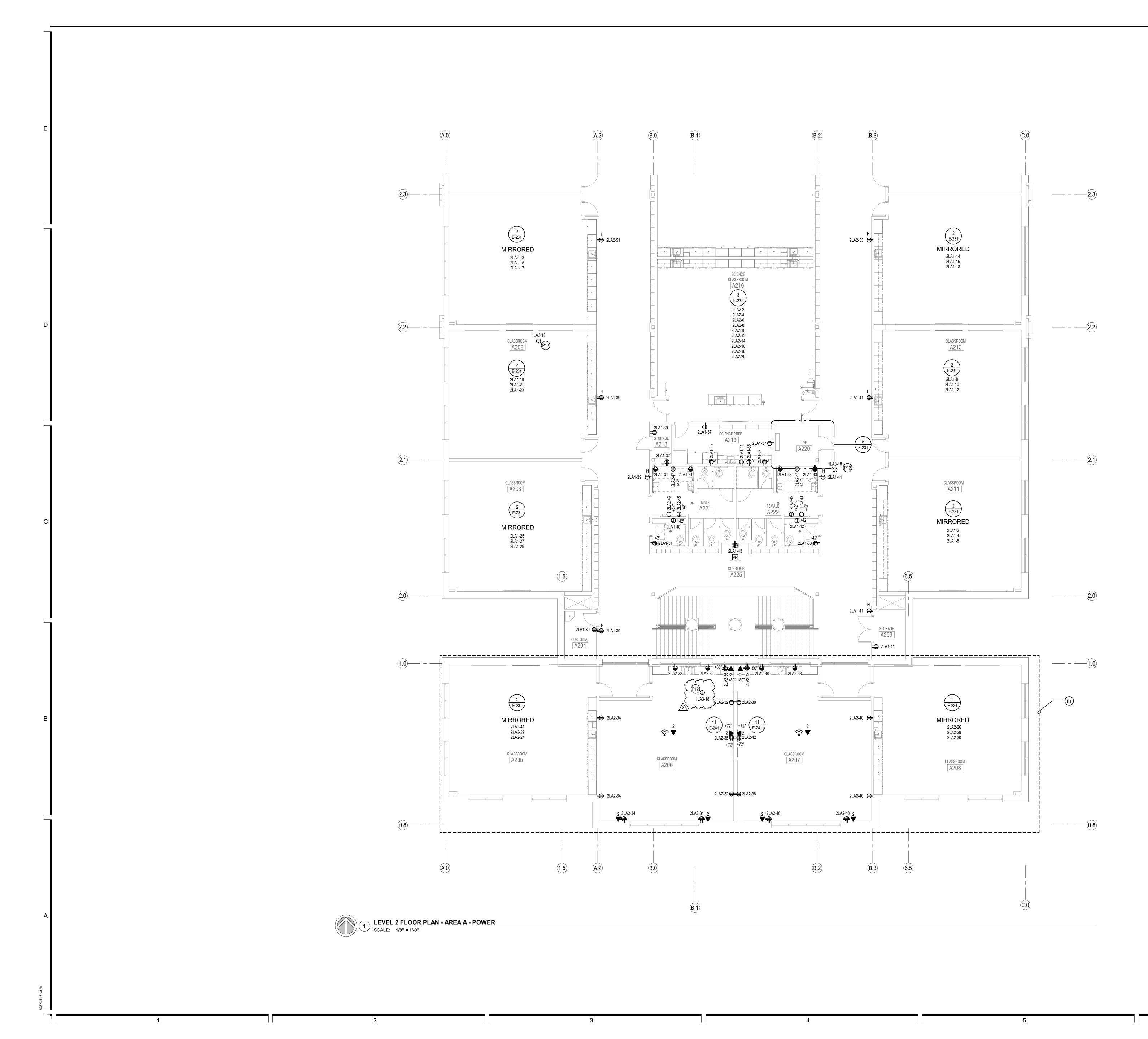
P12 POWER FOR VAV BOX TRANSFORMER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

SPACE UP NEAREST WALL AND INTO ACCESSIBLE CEILING SPACE.











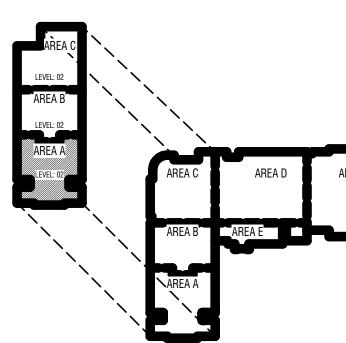
ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF GFCI. THE DIVISION 26 CONTRACTOR SHALL DETERMINE OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRE REPRESENTATION OF DEVICE LOCATIONS AND CO

KEYED NOTES (#)

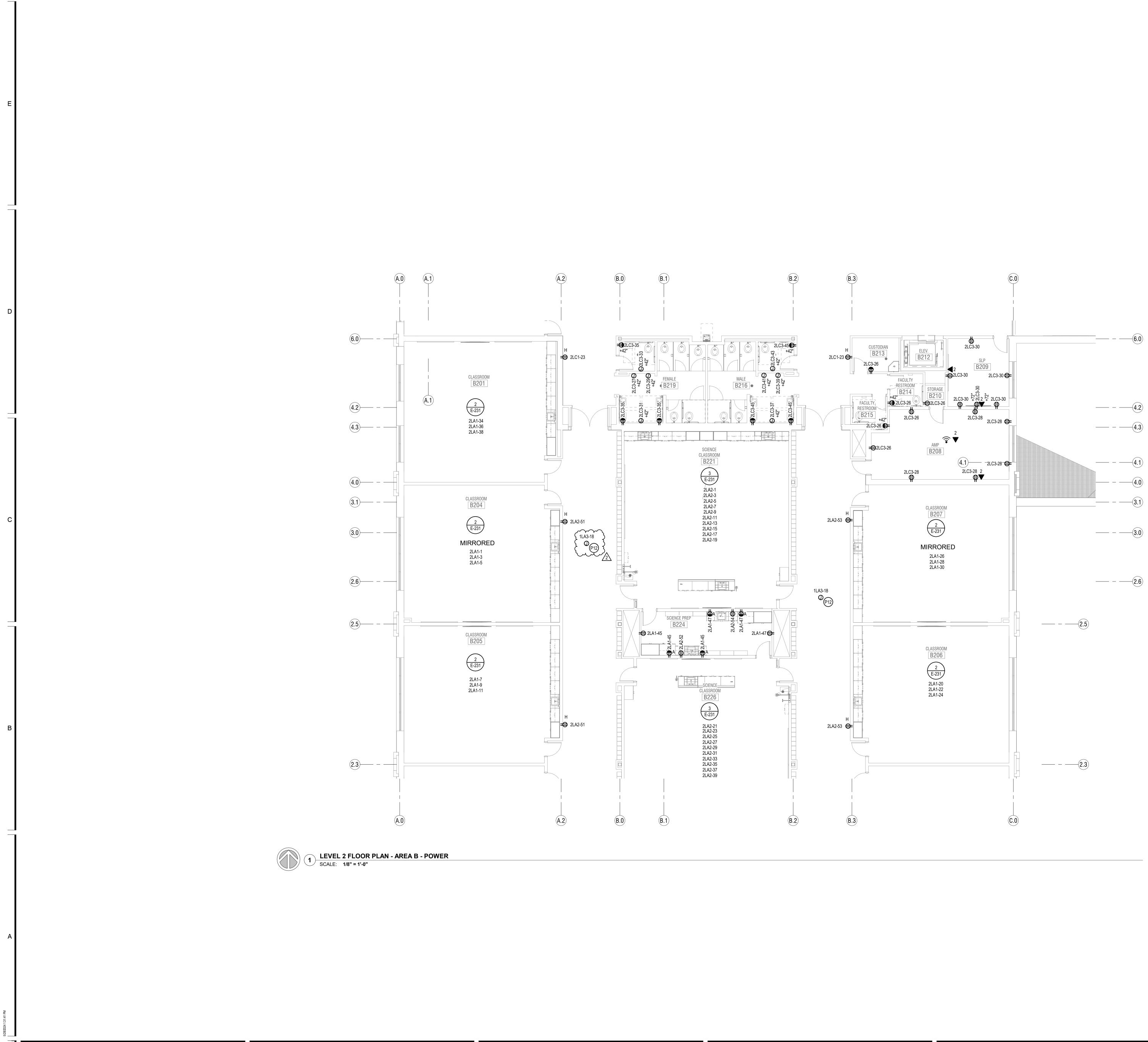
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POWER FOR VAV BOX TRANSFORMER. COORDINA WITH MECHANICAL CONTRACTOR. P12

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DF ANY SINK SHALL BE NE THE EXACT ROUTING RESENTS A SCHEMATIC CONDUIT RUNS. IS AREA AS SHOWN ON VILL BE REMOVED FROM BE ISSUED AS A CREDIT E PLANS. IATE EXACT LOCATION		design west architects	255 SOUTH 300 WEST LOGAN UT 84321 795 NORTH 400 WEST SALT LAKE CITY UT 84103
			SALT LAKE CITY, UT 84115 P (801) 534-1130 F (801) 534-1080 www.envisioneng.com
		HYDE PARK MIDDLE SCHOOL	250 W 200 S HYDE PARK, UTAH CACHE COUNTY SCHOOL DISTRICT
AREA F	CONSTRUCTION DOCUMENTS	ILEVEL 2 POWER BLEVEL 2 POWER CHECKED BY:	123006 Author Checker 04.26.2024



POWER GENERAL NOTES:

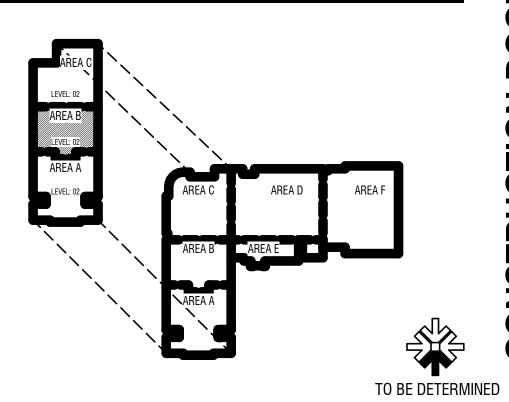
ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY GFCI. THE DIVISION 26 CONTRACTOR SHALL DETERMINE TH OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESEN REPRESENTATION OF DEVICE LOCATIONS AND COND

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POWER FOR VAV BOX TRANSFORMER. COORDINATE E WITH MECHANICAL CONTRACTOR. P12

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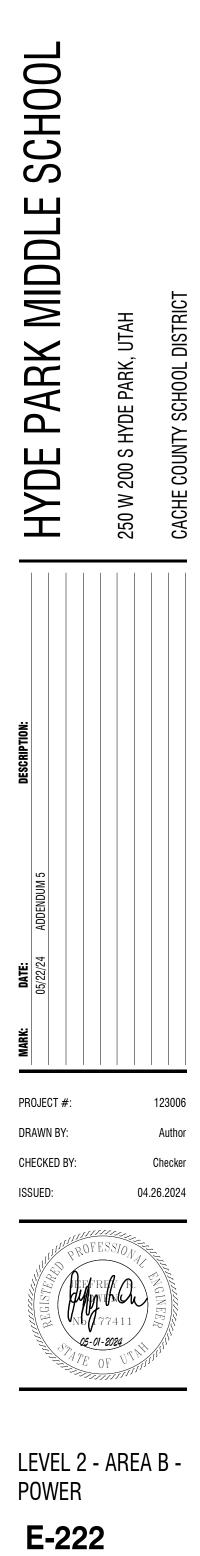
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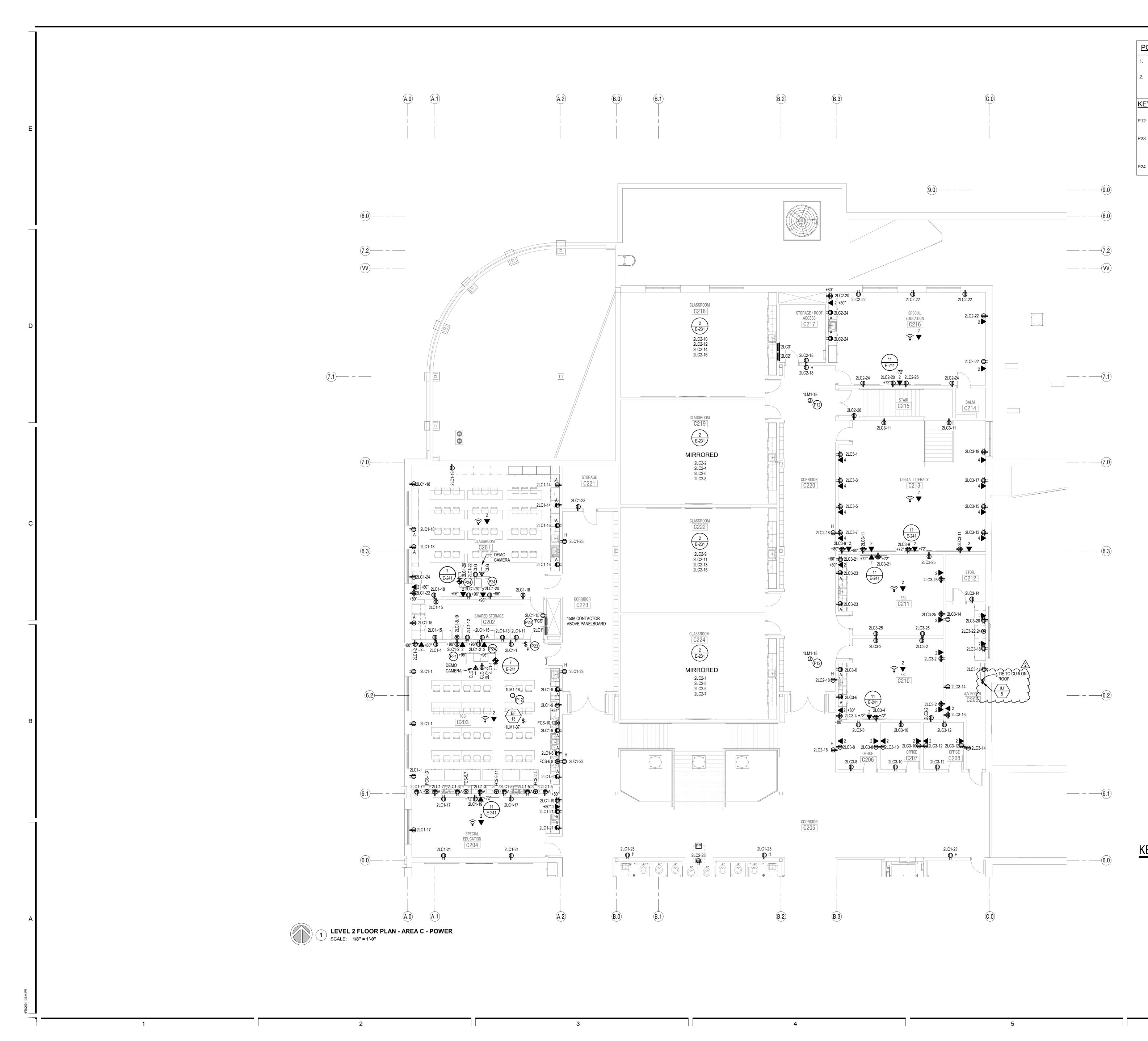


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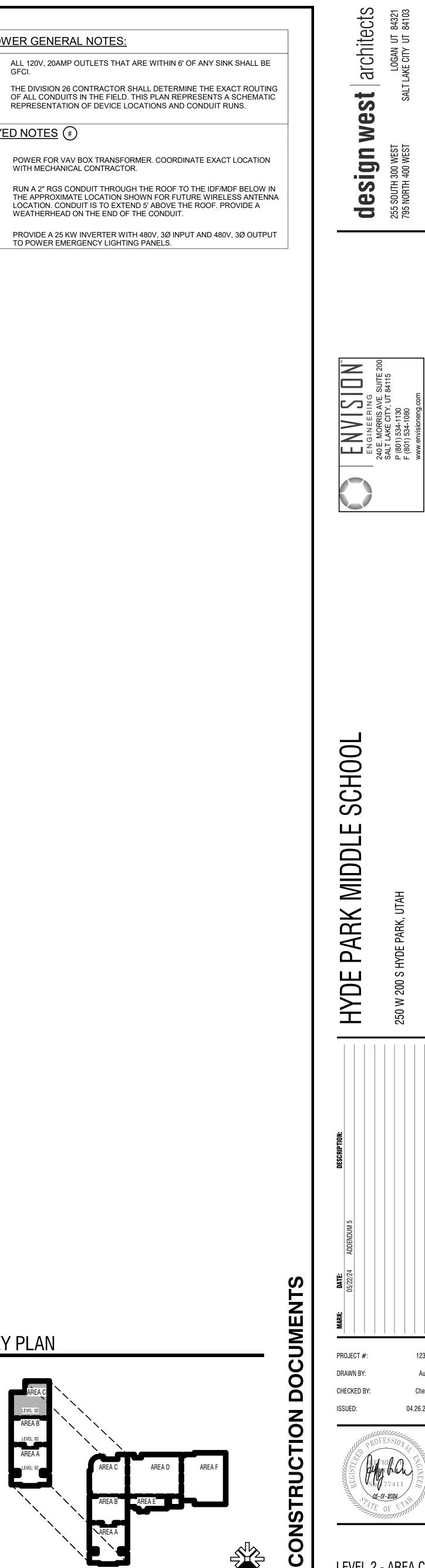
POW	VER GENERAL NOTES:
1.	ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF AN GFCI.
2.	THE DIVISION 26 CONTRACTOR SHALL DETERMINE TH OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESE REPRESENTATION OF DEVICE LOCATIONS AND COND
<u>KEYE</u>	D NOTES (#)
P12	POWER FOR VAV BOX TRANSFORMER. COORDINATE I WITH MECHANICAL CONTRACTOR.
P23	RUN A 2" RGS CONDUIT THROUGH THE ROOF TO THE THE APPROXIMATE LOCATION SHOWN FOR FUTURE W LOCATION. CONDUIT IS TO EXTEND 5' ABOVE THE ROO WEATHERHEAD ON THE END OF THE CONDUIT.
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UTH 300 WEST RTH 400 WEST

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KEY PLAN



TO BE DETERMINED

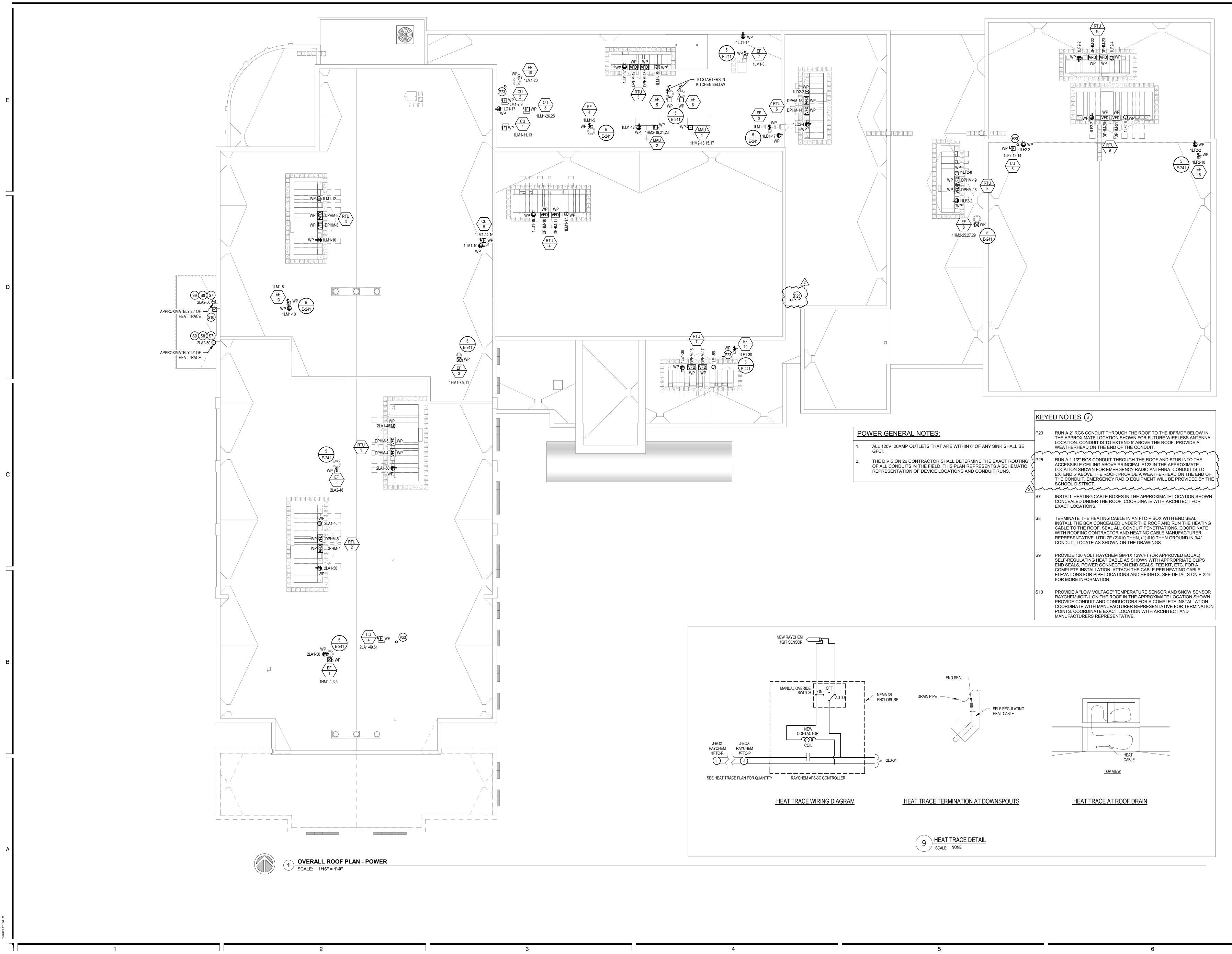
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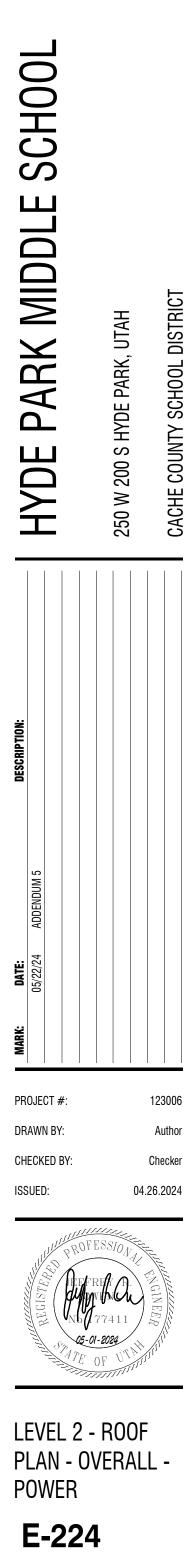


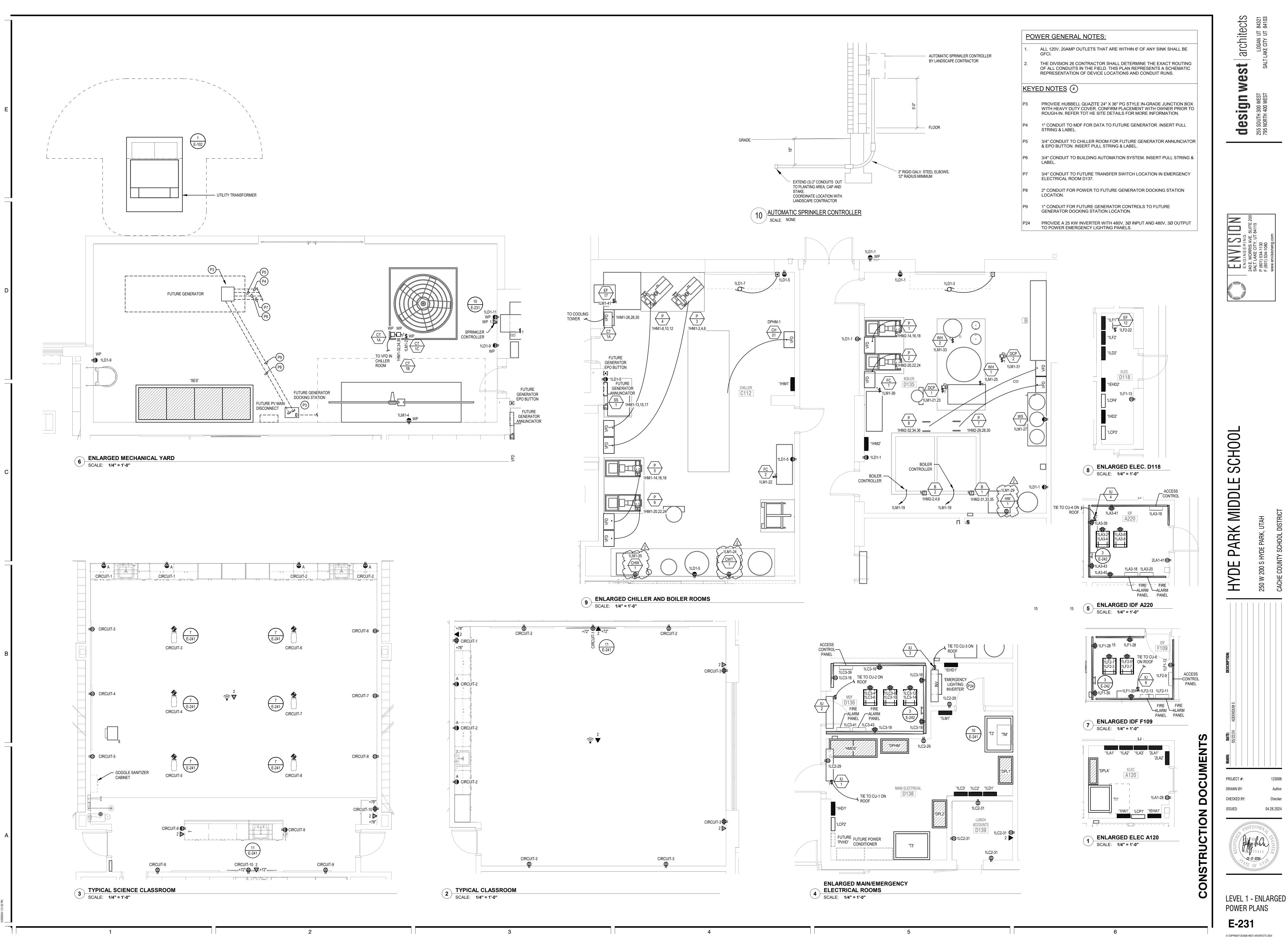
		<u>KEY</u>	ED NOTES (#)
PC	OWER GENERAL NOTES:	P23	RUN A 2" RGS CONDUIT THROUGH THE ROOF TO THE IDF/MDF BELO THE APPROXIMATE LOCATION SHOWN FOR FUTURE WIRELESS AN
1.	ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE GFCI.		LOCATION. CONDUIT IS TO EXTEND 5' ABOVE THE ROOF. PROVIDE WEATHERHEAD ON THE END OF THE CONDUIT.
2.	THE DIVISION 26 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS AND CONDUIT RUNS.	P25	RUN A 1-1/2" RGS CONDUIT THROUGH THE ROOF AND STUB INTO T ACCESSIBLE CEILING ABOVE PRINCIPAL E123 IN THE APPROXIMATI LOCATION SHOWN FOR EMERGENCY RADIO ANTENNA. CONDUIT IS EXTEND 5' ABOVE THE ROOF. PROVIDE A WEATHERHEAD ON THE E THE CONDUIT. EMERGENCY RADIO EQUIPMENT WILL BE PROVIDED SCHOOL DISTRICT.
		S7	INSTALL HEATING CABLE BOXES IN THE APPROXIMATE LOCATION S CONCEALED UNDER THE ROOF. COORDINATE WITH ARCHITECT FO EXACT LOCATIONS.
		S8	TERMINATE THE HEATING CABLE IN AN FTC-P BOX WITH END SEAL INSTALL THE BOX CONCEALED UNDER THE ROOF AND RUN THE HE CABLE TO THE ROOF. SEAL ALL CONDUIT PENETRATIONS. COORDI WITH ROOFING CONTRACTOR AND HEATING CABLE MANUFACTURE REPRESENTATIVE. UTILIZE (2)#10 THHN, (1) #10 THHN GROUND IN 3 CONDUIT. LOCATE AS SHOWN ON THE DRAWINGS.
		S9	PROVIDE 120 VOLT RAYCHEM GM-1X 12W/FT (OR APPROVED EQUA SELF-REGULATING HEAT CABLE AS SHOWN WITH APPROPRIATE CI END SEALS, POWER CONNECTION END SEALS, TEE KIT, ETC. FOR A COMPLETE INSTALLATION. ATTACH THE CABLE PER HEATING CABL ELEVATIONS FOR PIPE LOCATIONS AND HEIGHTS. SEE DETAILS ON FOR MORE INFORMATION.
		S10	PROVIDE A "LOW VOLTAGE" TEMPERATURE SENSOR AND SNOW SE RAYCHEM #GIT-1 ON THE ROOF IN THE APPROXIMATE LOCATION S PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE INSTALLA COORDINATE WITH MANUFACTURER REPRESENTATIVE FOR TERM POINTS. COORDINATE EXACT LOCATION WITH ARCHITECT AND MANUFACTURERS REPRESENTATIVE.

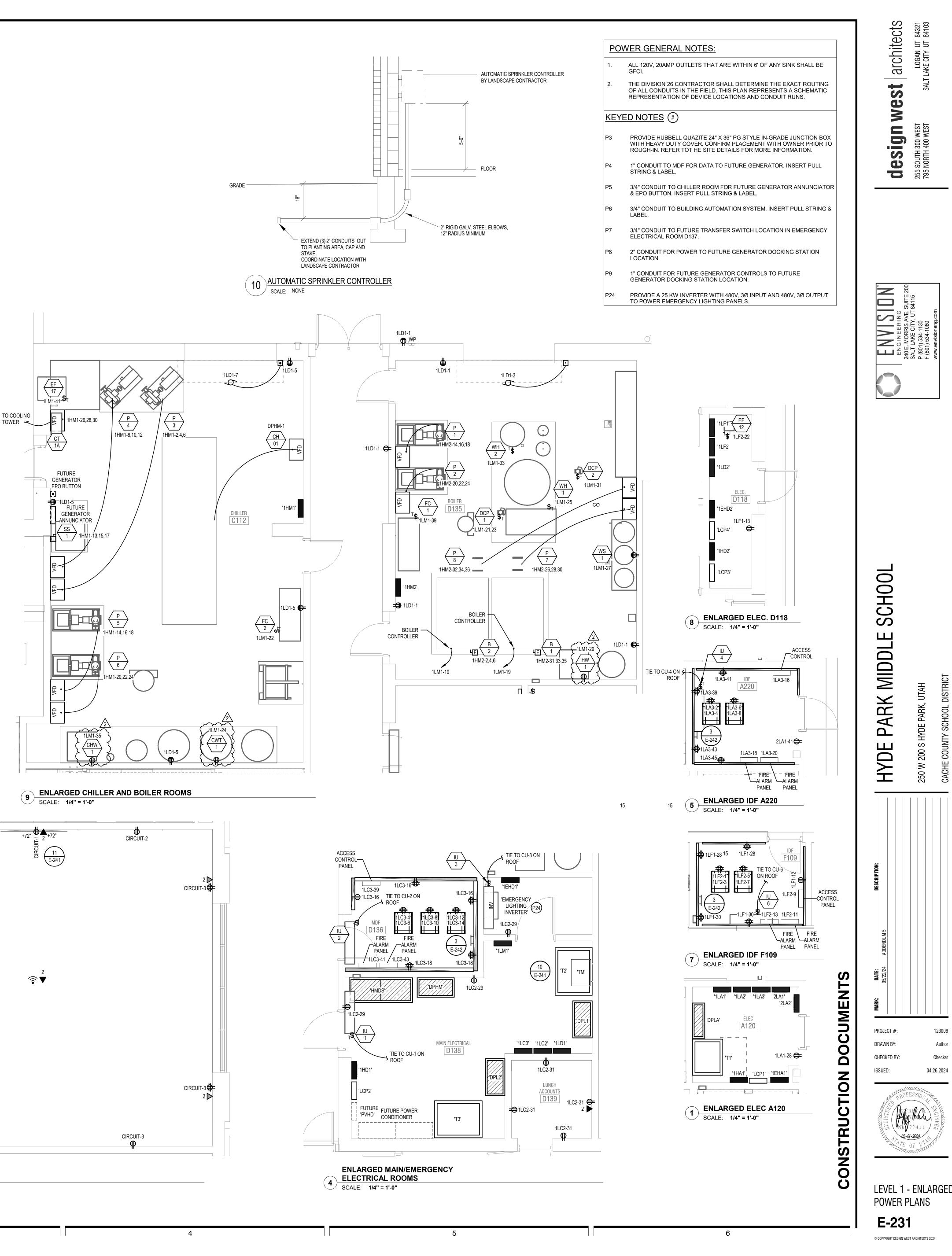


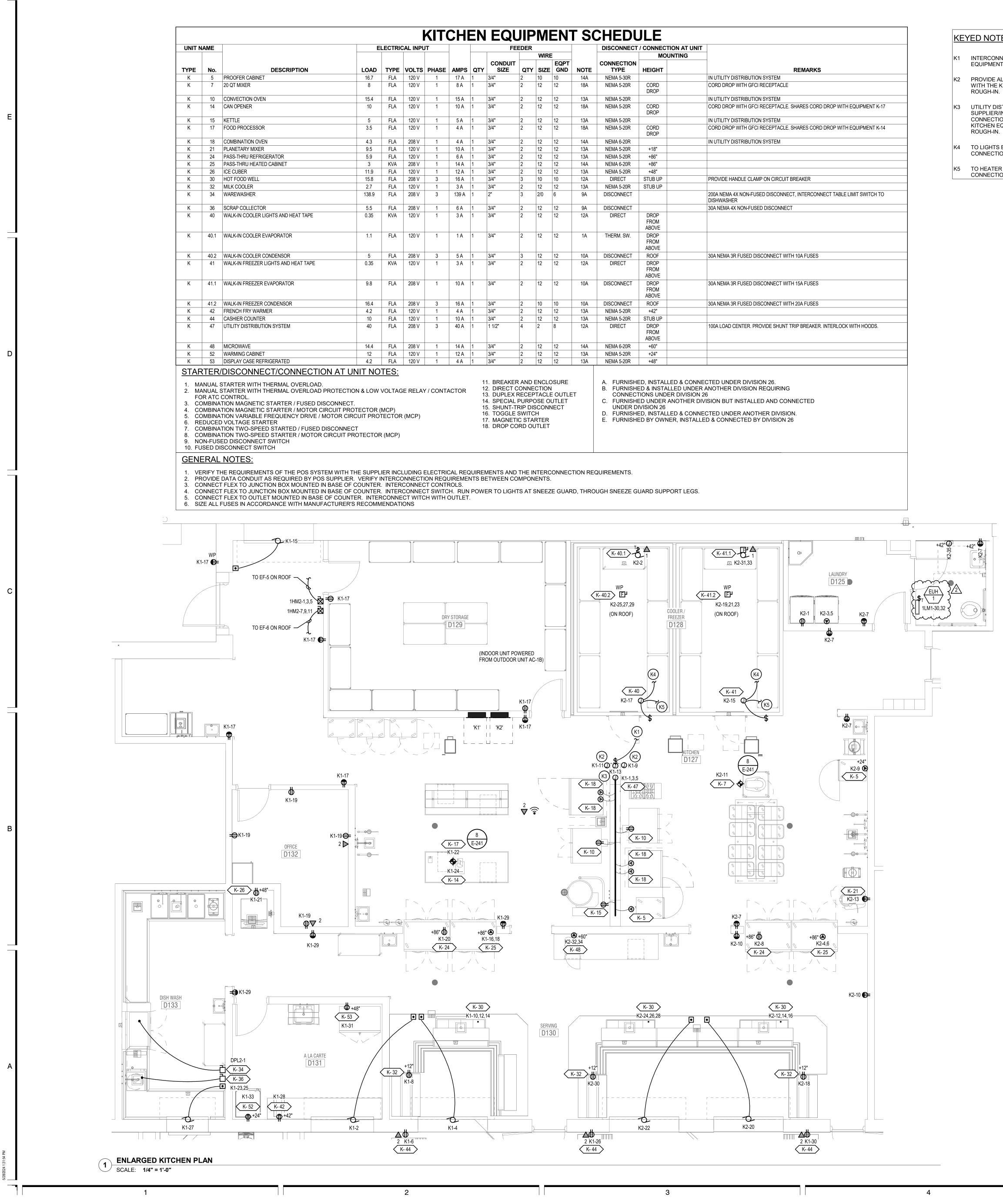












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				WIRE				MOUNTING		K1 INT		
MPS	QTY	CONDUIT SIZE	QTY	SIZE	EQPT GND	NOTE	CONNECTION TYPE	HEIGHT	REMARKS	EQ		
7 A	1	3/4"	2	10	10	14A	NEMA 5-30R		IN UTILITY DISTRIBUTION SYSTEM	K2 PR		
8 A	1	3/4"	2	12	12	18A	NEMA 5-20R	CORD DROP	CORD DROP WITH GFCI RECEPTACLE	WI RO		
5 A	1	3/4"	2	12	12	13A	NEMA 5-20R		IN UTILITY DISTRIBUTION SYSTEM			
0 A	1	3/4"	2	12	12	18A	NEMA 5-20R	CORD DROP	CORD DROP WITH GFCI RECEPTACLE. SHARES CORD DROP WITH EQUIPMENT K-17	K3 UT SU		
5 A	1	3/4"	2	12	12	13A	NEMA 5-20R		IN UTILITY DISTRIBUTION SYSTEM	CO		
4 A	1	3/4"	2	12	12	18A	NEMA 5-20R	CORD DROP	CORD DROP WITH GFCI RECEPTACLE. SHARES CORD DROP WITH EQUIPMENT K-14	KIT RO		
4 A	1	3/4"	2	12	12	14A	NEMA 6-20R		IN UTILITY DISTRIBUTION SYSTEM			
0 A 0	1	3/4"	2	12	12	13A	NEMA 5-20R	+18"		K4 TO CO		
6 A	1	3/4"	2	12	12	13A	NEMA 5-20R	+86"				
4 A	1	3/4"	2	12	12	14A	NEMA 6-20R	+86"		К5 ТО		
2 A	1	3/4"	2	12	12	13A	NEMA 5-20R	+48"		CO		
6 A	1	3/4"	3	10	10	12A	DIRECT	STUB UP	PROVIDE HANDLE CLAMP ON CIRCUIT BREAKER			
3 A 39 A	1	3/4" 2"	2 3	12 2/0	12 6	13A 9A	NEMA 5-20R DISCONNECT	STUB UP	200A NEMA 4X NON-FUSED DISCONNECT, INTERCONNECT TABLE LIMIT SWITCH TO DISHWASHER			
6 A	1	3/4"	2	12	12	9A	DISCONNECT		30A NEMA 4X NON-FUSED DISCONNECT			
3 A	1	3/4"	2	12	12	12A	DIRECT	DROP FROM ABOVE				
1 A	1	3/4"	2	12	12	1A	THERM. SW.	DROP FROM ABOVE				
5 A	1	3/4"	3	12	12	10A	DISCONNECT	ROOF	30A NEMA 3R FUSED DISCONNECT WITH 10A FUSES			
3 A	1	3/4"	2	12	12	12A	DIRECT	DROP FROM ABOVE				
0 A	1	3/4"	2	12	12	10A	DISCONNECT	DROP FROM ABOVE	30A NEMA 3R FUSED DISCONNECT WITH 15A FUSES			
6 A	1	3/4"	2	10	10	10A	DISCONNECT	ROOF	30A NEMA 3R FUSED DISCONNECT WITH 20A FUSES			
4 A	1	3/4"	2	12	12	13A	NEMA 5-20R	+42"				
0 A	1	3/4"	2	12	12	13A	NEMA 5-20R	STUB UP				
10 A	1	1 1/2"	4	2	8	12A	DIRECT	DROP FROM ABOVE	100A LOAD CENTER. PROVIDE SHUNT TRIP BREAKER. INTERLOCK WITH HOODS.			
4 A	1	3/4"	2	12	12	14A	NEMA 6-20R	+60"				
2 A	1	3/4"	2	12	12	13A	NEMA 5-20R	+24"				
4 A 🛛	1	3/4"	2	12	12	13A	NEMA 5-20R	+48"				

ED NOTES X

NTERCONNECT TO EXHAUST SYSTEM. COORDINATE ALL WORK WITH THE KITCHEN EQUIPMENT INSTALLER AND MECHANICAL CONTRACTOR PRIOR TO ANY ROUGH-IN. PROVIDE ALL REQUIRED CONNECTIONS TO HOOD LIGHTS. COORDINATE ALL WORK WITH THE KITCHEN EQUIPMENT INSTALLER AND HOOD INSTALLER PRIOR TO ANY ROUGH-IN.

JTILITY DISTRIBUTION SYSTEM IS PROVIDED BY THE KITCHEN EQUIPMENT SUPPLIER/INSTALLER. ELECTRICAL CONTRACTOR TO PROVIDE FEEDER AND FEEDER CONNECTIONS. ALL ASSOCIATED OUTLETS ARE PROVIDED AND INSTALLED BY THE KITCHEN EQUIPMENT SUPPLIER/INSTALLER. COORDINATE ALL WORK PRIOR TO ANY

TO LIGHTS BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE ALL WORK AND CONNECTIONS WITH THE KITCHEN EQUIPMENT INSTALLER. O HEATER BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE ALL WORK AND CONNECTIONS WITH THE KITCHEN EQUIPMENT INSTALLER.

KITCHEN ELECTRICAL NOTES:

- COORDINATE EXACT LOCATION, TERMINATIONS, AND MOUNTING HEIGHTS WITH EQUIPMENT MANUFACTURER DRAWINGS AND OWNER IN FIELD PRIOR TO ANY INSTALLATION. REFER TO THE EQUIPMENT INSTALLATION DRAWINGS FOR ADDITIONAL INFORMATION.
- VERIFY ALL MOUNTING HEIGHTS PRIOR TO INSTALLATION WITH THE EQUIPMENT INSTALLER/SUPPLIER.
- CONTRACTOR SHALL COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER FOR EACH SPECIFIC MODEL AND PIECE OF EQUIPMENT. PROVIDE ELECTRICAL SERVICE AS REQUIRED.
- 4. ALL COVER PLATES IN THE KITCHEN SHALL BE STAINLESS STEEL.
- THE CONTRACTOR SHALL PROVIDE ALL DISCONNECT SWITCHES, STARTERS, ETC. AS REQUIRED BY NEC. VERIFY ALL ELECTRICAL REQUIREMENTS WITH THE EQUIPMENT INSTALLER/SUPPLIER PRIOR TO ROUGH-IN. 6. THE ELECTRICAL CONTRACTOR TO PROVIDE ALL HARDWIRED CONNECTIONS TO EQUIPMENT.
- PROVIDE WATERTIGHT FITTINGS, BOXES, COUPLINGS, ETC. IN ALL PREP AREAS THAT ARE EXPOSED TO SPRAY DOWN.
- ANY CONNECTION TO EQUIPMENT SHALL BE MADE USING SEALTIGHT CONDUIT AND WATERTIGHT FITTINGS. ALL DISCONNECT SWITCHES LOCATED IN THE KITCHEN AREAS SHALL BE RATED FOR SPRAY DOWN, NEMA 4X
- STAINLESS STEEL. 0. ALL EQUIPMENT ROUGH-IN REQUIREMENTS SHALL BE COORDINATED WITH THE EQUIPMENT SUPPLIER PRIOR TO ANY
- ROUGH-IN. CONTRACTOR TO OBTAIN CUT SHEETS FOR EACH PIECE OF EQUIPMENT FROM THE EQUIPMENT SUPPLIER AND VERIFY EXACT ROUGH-IN LOCATIONS. IF THE CONTRACTGOR DAILS TO COORDINATE THE LOCATIONS WITH THE SUPPLIER, THE CONTRACTOR FIX THE ROUGH-IN AT NO ADDITIONAL COST TO THE OWNER.

10. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL

SWITCH AND COMPRESSOR CONTROL PANEL.

NOTE: WALK-IN ELECTRICAL

NOTE: ELECTRICAL MOUNTING

INTERCONNECTING CONDUIT AND WIRING BETWEEN KITCHEN

FURNISHED LOW TEMP COLD STORAGE ROOM EVAPORATOR

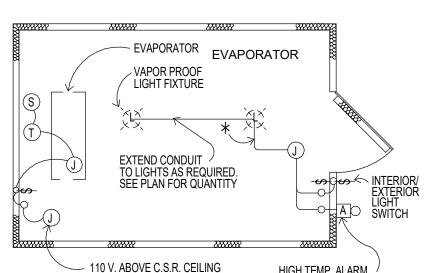
WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

ALL CONDUIT SHALL BE RUN ON THE EXTERIOR CEILING OF ALL COLD

TERMINAL EQUIPMENT CONTRACTOR BLOCK, SWITCH, FAN DOOR

ELECTRICAL NOTES

- 1. ELECTRICAL PLAN SHOWS ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWINGS FOR CONSTRUCTION.
- 2. ELECTRICAL SYSTEM IS DESIGNED FOR 120/208 VOLTS, 3 PHASE, 60 HERTZ, 4 WIRE SYSTEM.
- 3. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL JUNCTION BOXES, RECEPTACLES, COVER PLATES, PULL BOXES, CONDUIT AND WIRING EXCEPT WHERE NOTED. RECEPTACLES AND COVER PLATES SHALL BE BRUSHED STAINLESS STEEL FURNISHED BY ELECTRICAL DIVISION.
- 4. ALL CONDUIT RUNS INDICATED FOR REFRIGERATION LINES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION. CONDUIT SHALL HAVE 12" (600MM) MINIMUM RADIUS BENDS.
- 5. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL VAPOR PROOF VENTILATOR LIGHTS COMPLETE WITH LAMPS. INTERCONNECTING CONDUIT, WIRING WITH WALL SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION.
- ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND INTERCOM JACKS AND TEMPERATURE MONITORING SYSTEM ETC. SHALL BE LOCATED BY THE ELECTRICAL ENGINEER/ ARCHITECT AND AS REQUIRED BY CODE.
- PRE-FABRICATED COLD STORAGE ROOMS ARE FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR COMPLETE WITH SPLICE BOXES, LIGHT FIXTURES, LAMPS, LIGHT SWITCHES AND DOOR HEATERS. ELECTRICAL DIVISION TO INSTALL SAME AND SHALL FURNISH AND INSTALL INTERCONNECTING CONDUIT, WIRING SEAL OFFS, SEALANT AND MAKE FINAL CONNECTIONS.



HIGH TEMP. ALARM VERIFY KW EVAPORATOR MOTORS (WHEN SPECIFIED)

REFRIGERATOR

- (J) JUNCTION BOX
- THERMOSTAT
- (S) LIQUID LINE SOLENOID
- EYS & NIPPLE FOR CEILING PENETRATION TO SPLICE BOX
- HEATED VACUUM VENT
- C.S.R. COLD STORAGE ROOM * EMT RIGID CONDUIT
- RUN ABOVE C.S.R. CEILING BY ELEC

DIVISION (TYP) 110 V. ABOVE COLD STORAGE

- ROOM CEILING
- KW LIGHTS (EACH) KW VIEWPORT & DOOR HEATER (FREEZER)
- KW HIGH TEMP. ALÁRM (WHEN SPECIFIED)

NOTES:

- LIGHT FIXTURES, SWITCH BOXES, SWITCHES, & SPLICE BOXES ARE FURNISHED LOOSE WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL ALL ITEMS FURNISHED
- CONDUIT & WIRING. EVAPORATORS FOR COLD STORAGE ROOM ARE FURNISHED & INSTALLED COMPLETE WITH ROOM THERMOSTAT, LIQUID LINE SOLENOID & DISCONNECT SWITCH. ELECTRICAL DIVISION TO PROVIDE INTERCONNECTING CONDUIT & WIRING FORM BUILDING SERVICE TO ALL

LOOSE INCLUDING ALL INTERCONNECTING

COMPONENTS. ELECTRICAL DIVISION TO PROVIDE ALL BUILDING SERVICES INCLUDING J-BOXES, INTERCONNECTING CONDUIT & WIRING FROM

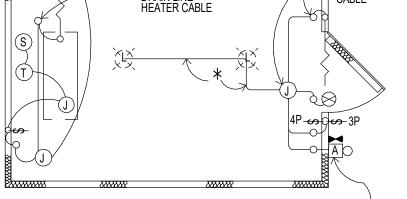
BUILDING SERVICE TO COMPONENTS.

20000000 20000000 3000000 VIEWPORT & DOOR HEATER HEATER CABLE

EVAPORATOR, TERMINAL BLOCK, ROOM THERMOSTAT, LIQUID LINE

SOLENOID & ELECTRIC PANEL AT COMPRESSOR RACK SUPPLIED AS

PART OF THE REFRIGERATION SYSTEM. ELECTRICAL DIVISION TO FURNISH & INSTALL CONDUIT, J-BOXES AND WIRING BETWEEN COLI STORAGE ROOM AND COMPRESSOR RACK. SEE PLAN FOR LOCATION.



HIGH TEMP. ALARM (WHEN SPECIFIED)

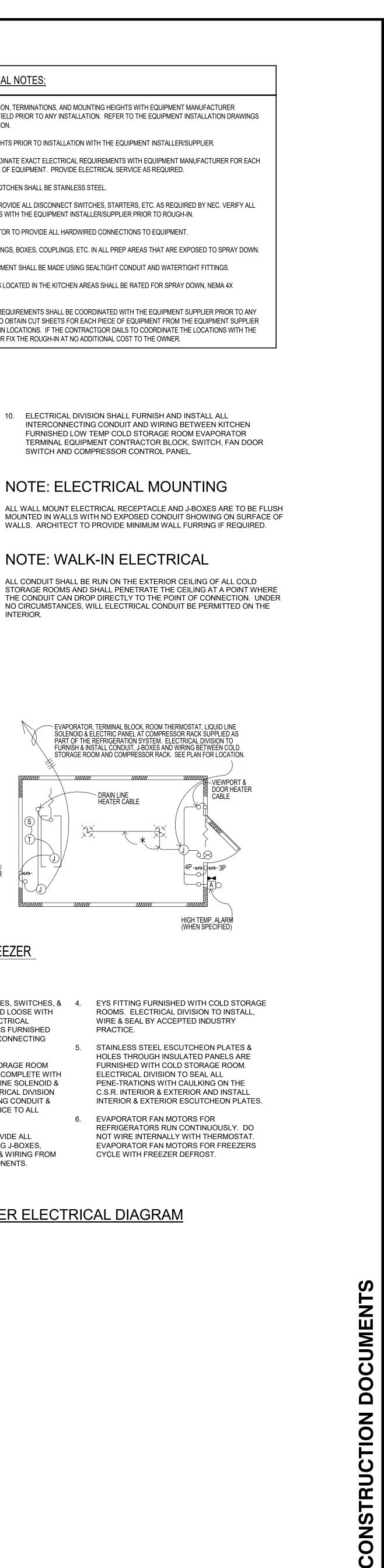
FREEZER

INTERIOR.

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- 4. EYS FITTING FURNISHED WITH COLD STORAGE ROOMS. ELECTRICAL DIVISION TO INSTALL, WIRE & SEAL BY ACCEPTED INDUSTRY PRACTICE.
- STAINLESS STEEL ESCUTCHEON PLATES & HOLES THROUGH INSULATED PANELS ARE FURNISHED WITH COLD STORAGE ROOM. ELECTRICAL DIVISION TO SEAL ALL PENE-TRATIONS WITH CAULKING ON THE C.S.R. INTERIOR & EXTERIOR AND INSTALL INTERIOR & EXTERIOR ESCUTCHEON PLATES.
- 6. EVAPORATOR FAN MOTORS FOR REFRIGERATORS RUN CONTINUOUSLY. DO NOT WIRE INTERNALLY WITH THERMOSTAT. EVAPORATOR FAN MOTORS FOR FREEZERS CYCLE WITH FREEZER DEFROST.

TYPICAL COOLER/FREEZER ELECTRICAL DIAGRAM



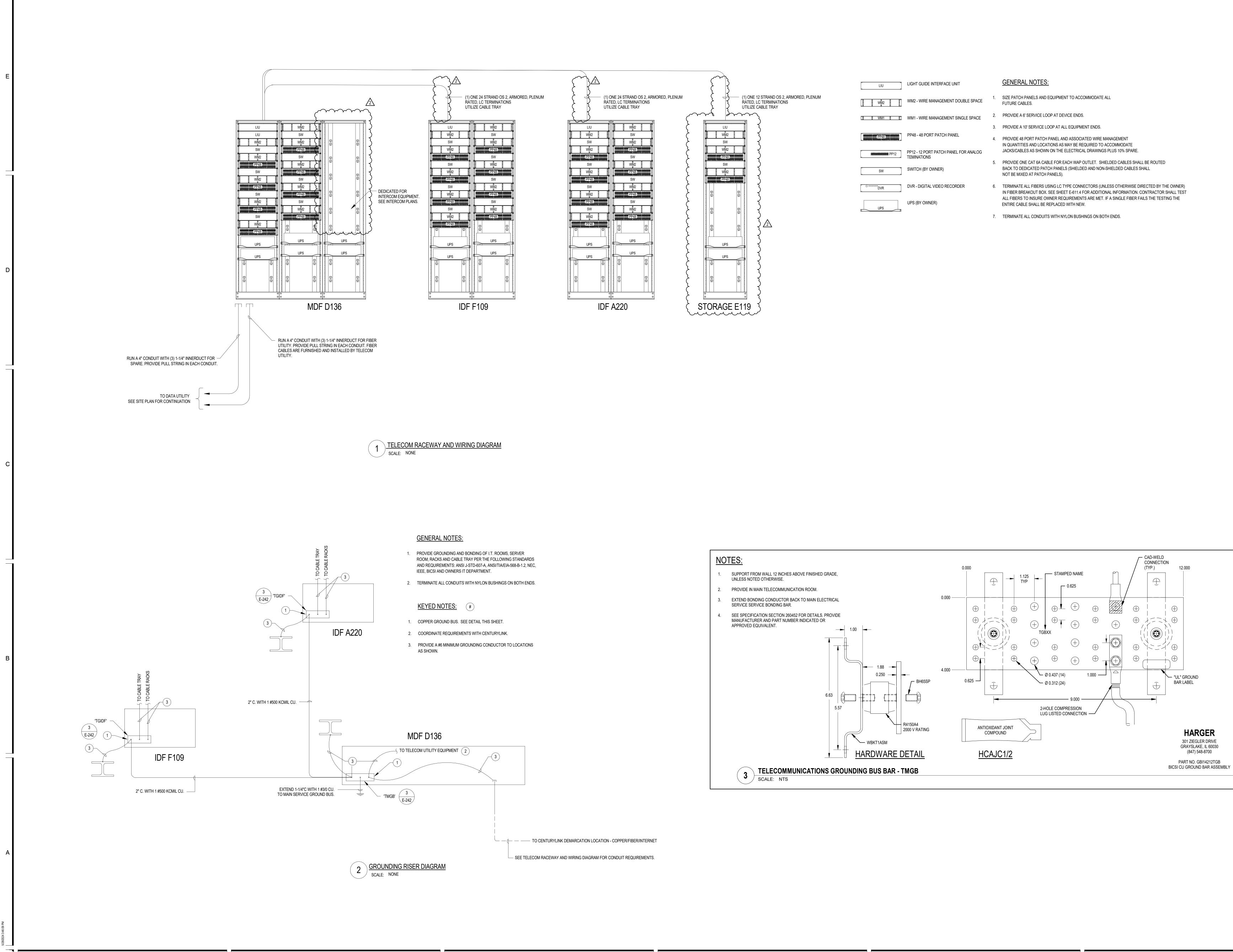


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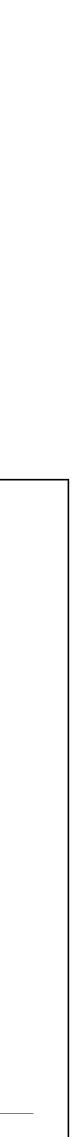
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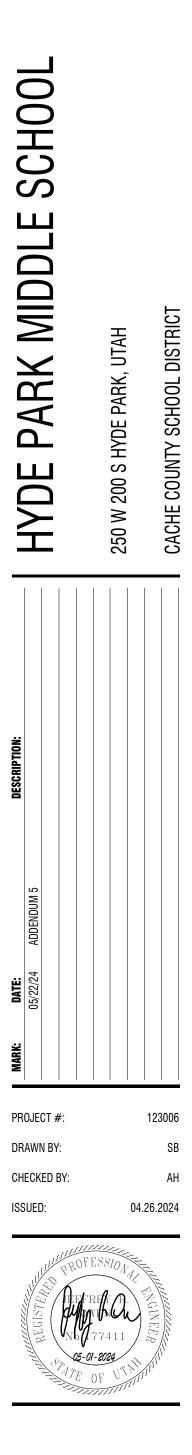
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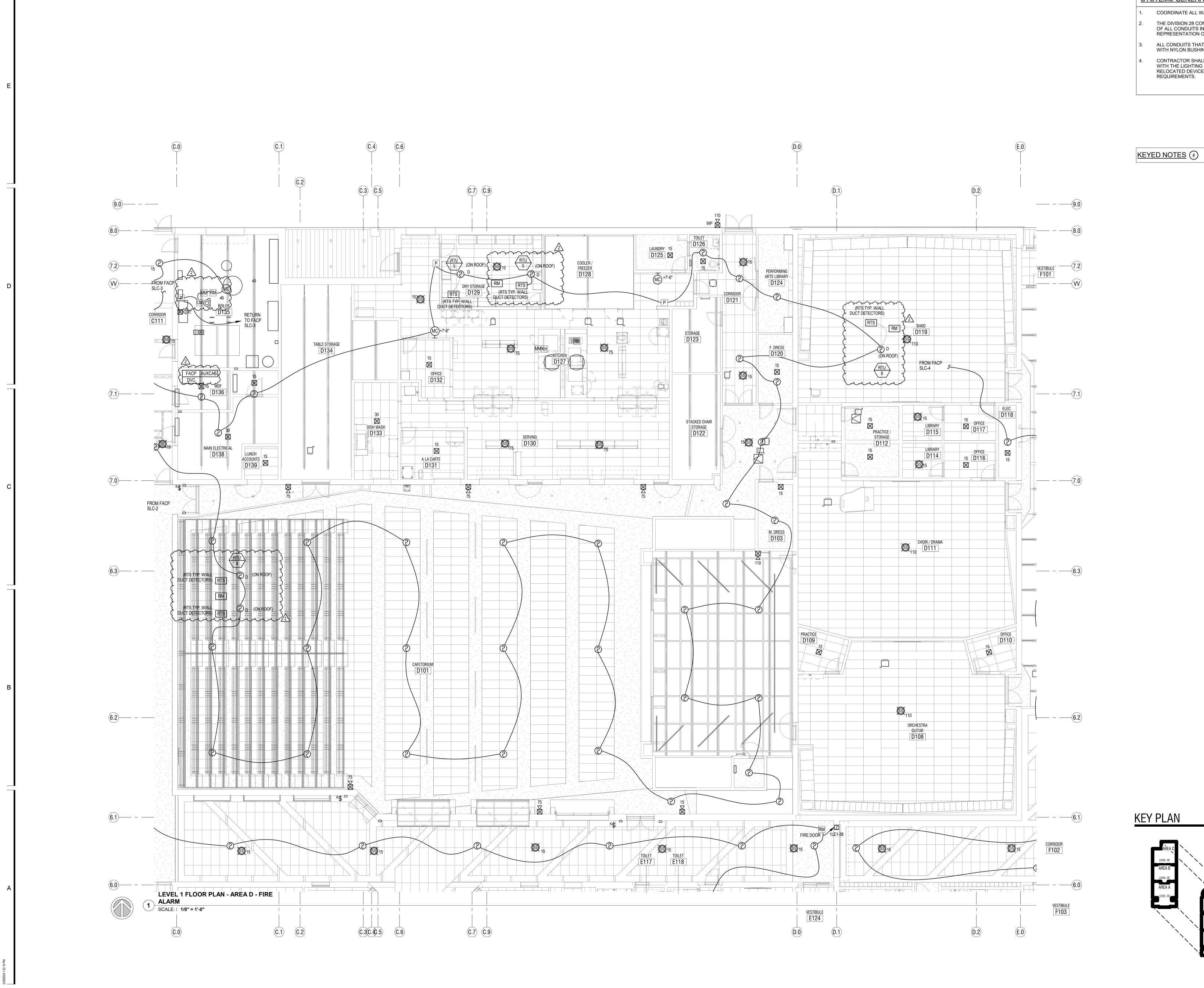


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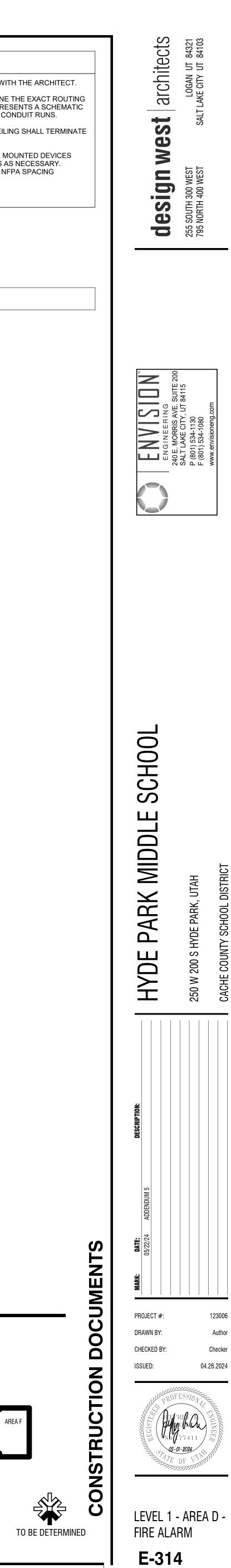


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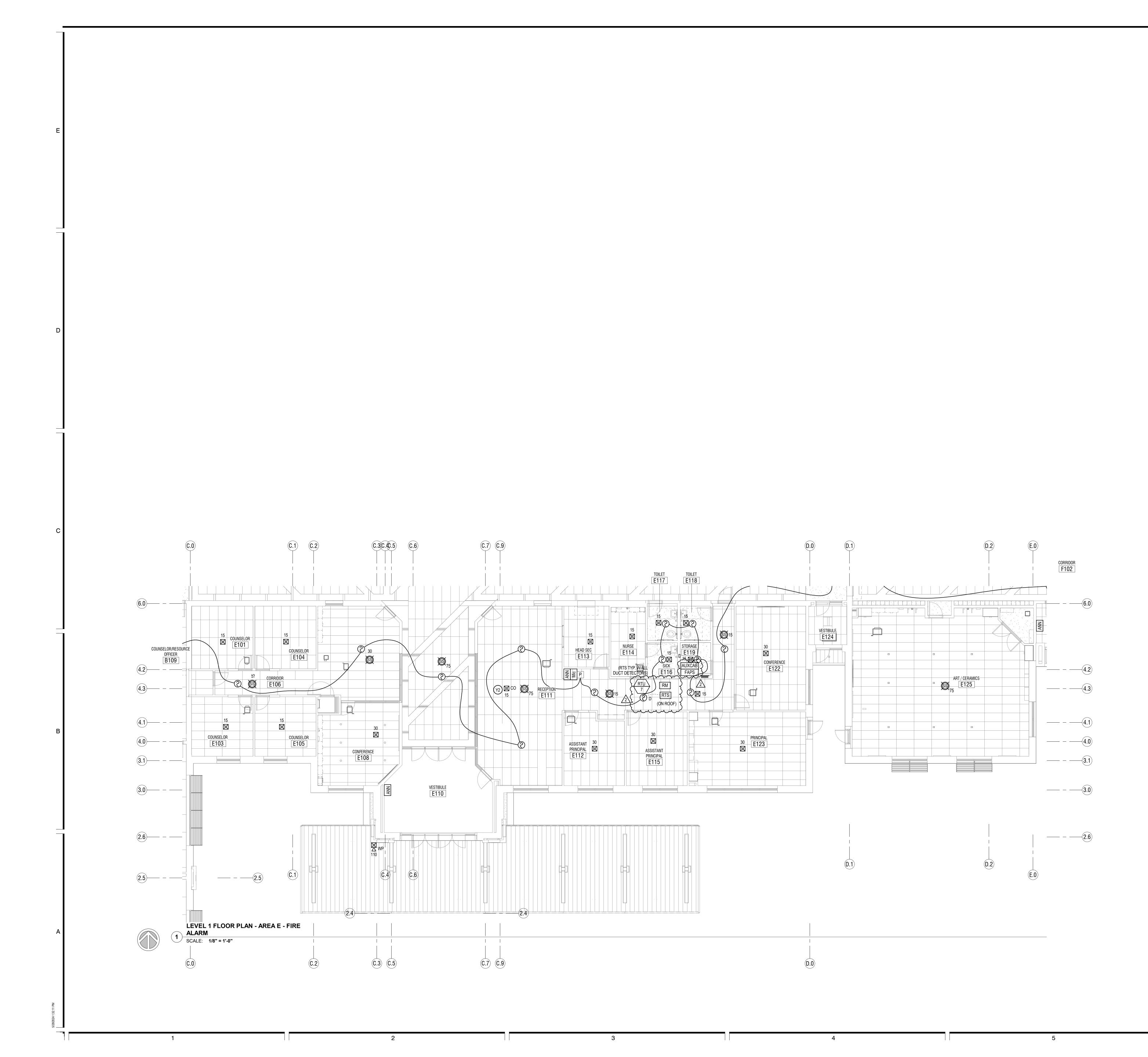
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SYSTEMS GENERAL NOTES:

- COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.
 THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT RUNS.
- ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE WITH NYLON BUSHING.
- . CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE LIGHTING PLANS. RELOCATE DEVICES AS NECESSARY. RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SPACING REQUIREMENTS.



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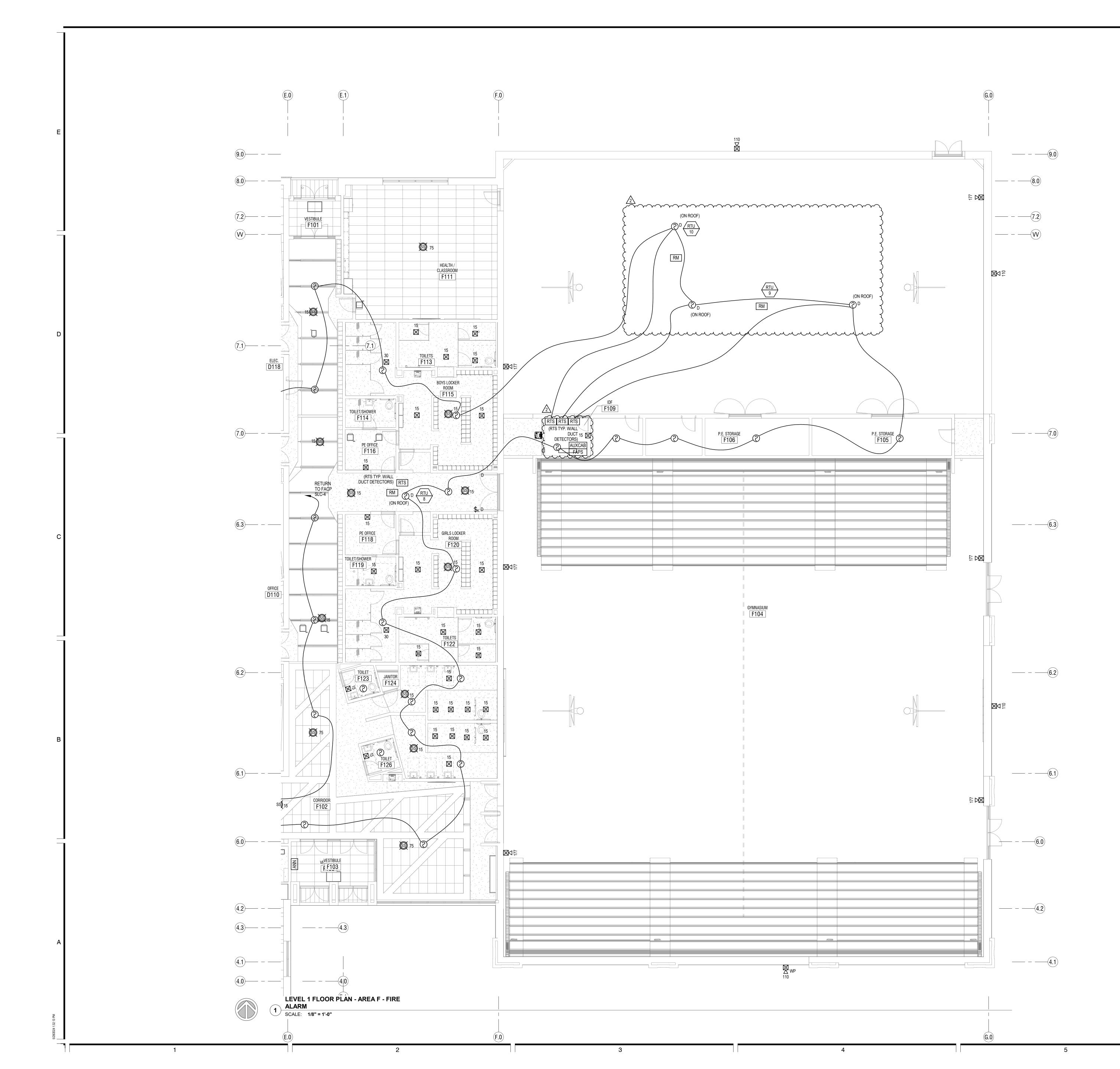


<u>SYS</u>	TEMS GENERAL NOTES:
1.	COORDINATE ALL WALL MOUNTED LOCATIONS WITH
2.	THE DIVISION 28 CONTRACTOR SHALL DETERMINE T OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRES REPRESENTATION OF DEVICE LOCATIONS, AND CON
3.	ALL CONDUITS THAT TERMINATE ABOVE THE CEILIN WITH NYLON BUSHING.
4.	CONTRACTOR SHALL COORDINATE ALL CEILING MO WITH THE LIGHTING PLANS. RELOCATE DEVICES AS RELOCATED DEVICES SHALL COMPLY WITH ALL NFP REQUIREMENTS.

KEYED NOTES (#)

KEY PLAN





SYSTEMS GENERAL NOTES: REQUIREMENTS. KEYED NOTES (#)

KEY PLAN

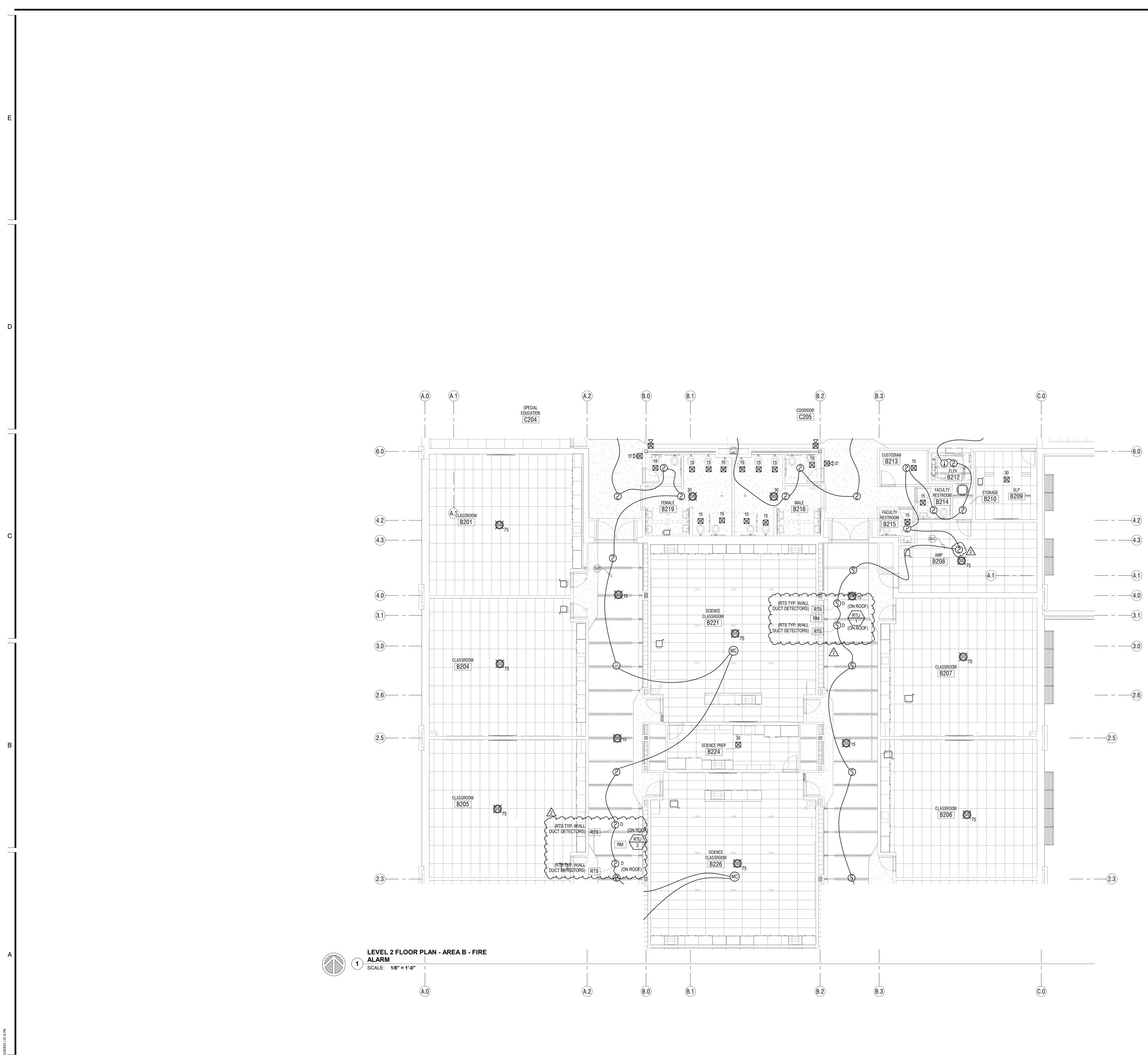




SYSTEMS GENERAL NOTES:

KEY PLAN





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SYSTEMS GENERAL NOTES:

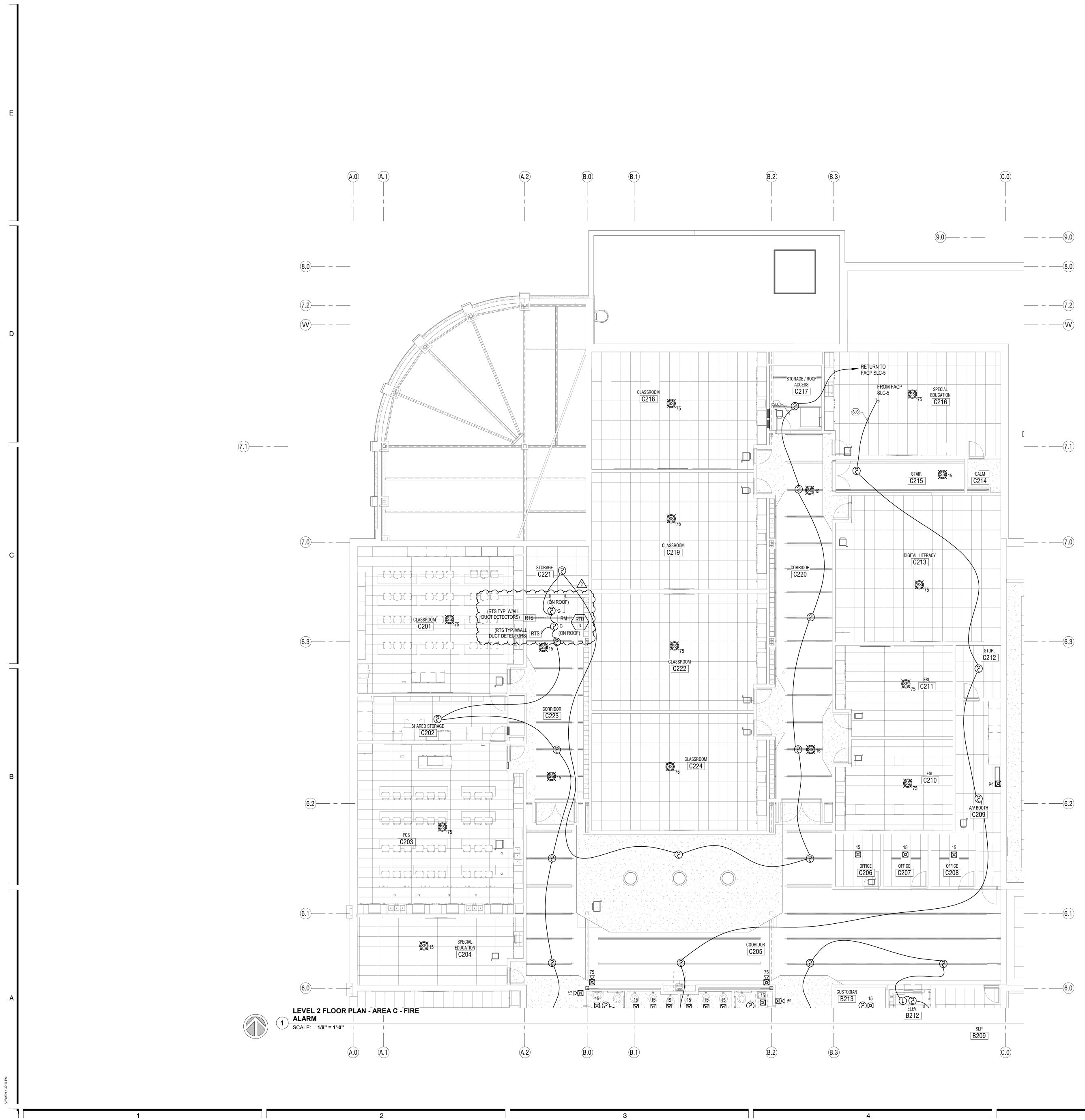
- WITH NYLON BUSHING.

KEYED NOTES (#)

KEY PLAN

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SYSTEMS GENERAL NOTES:

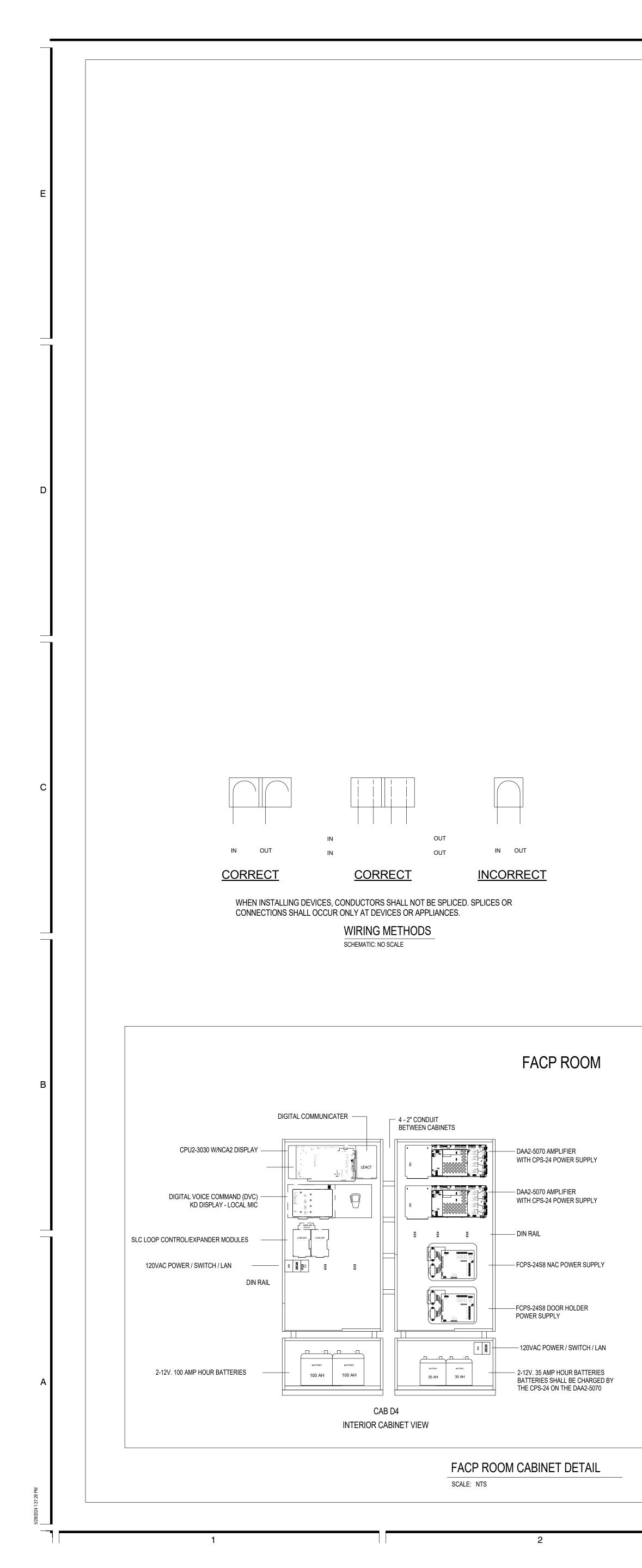
- WITH NYLON BUSHING.

KEYED NOTES (#)

KEY PLAN

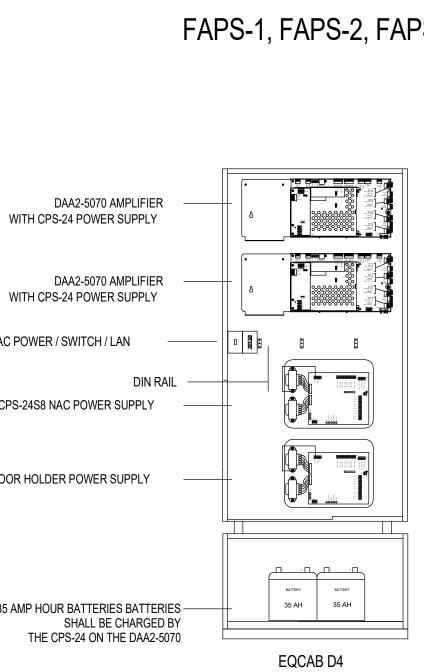
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								S RS							I SYMBOL LEGEND	
				GNAL	£			EXIT DOO		SYMBC	1	DESCRIPTION		NOTE: ALL SYMBOLS	MAY NOT BE USED ON THIS PROJECT	MOUNT IN
	OPERATIONS		NO KO	V SIGN	ICATOR			NLOCK	- D	FACP	_	ALARM CONTROL PANEL		- ONYX SERIES NFS2-3030	CABINET TOP @ 6'-2"	NOTIFIER - CAB D-4
	MATRIX	SR	NDICAT	VISOR		SIGNAL	F	CKS/UN	DOWN KITCHEN HOOD MAKE DOWN AIR HANDLER UNITS	DVC] DIGIT	AL VOICE CONTROL PANEL	NOTIFIER	- DVC		IN FACP CABINET
			ALARM SORY IN	SUPER	BLE TROUBL	GNAL SORY S	SIGNA	AGLO0	DOWN KITCHEN HOOD DOWN AIR HANDLER UI	FAPS] FIRE	ALARM POWER SUPPLY CABINET	NOTIFIER	- FCPS-24S8 & DAA2-5070	CABINET TOP @ 6'-2"	NOTIFIER - CAB EQ D-4 (NAC POWER SUPPLY & AMPLIFIER)
					JUBLE 1	ARM SI	OUBLE	RESS M	ITCHE	FAAUX		ALARM DOOR HOLDER POWER		- FCPS-24S8	IN FAPS CABINET	IN FAPS CABINET WHERE REQUIRED
		LARN TE ALA	TE AUD		TE AUD		IT TRO	E EGR E MAG	X NWC	ANN		ALARM REMOTE ANNUNCIATOR	NOTIFIER		FIELD VERIFY	3 GANG DEEP - MOUNTED FLUSH, 48" TO TOP
			CTIVATE CTIVATE		CTIVATE	RANSN	FRANSMIT	ELEAS	SHUT DO	MIC			NOTIFIER		FIELD VERIFY	
_	FIRE ALARM INPUT SMOKE DETECTORS		\sim	h			$\uparrow \neg \uparrow$) DD		KE DETECTOR	NOTIFIER NOTIFIER	- FSP-851 - FSP-851R / DNR	CEILING INDICATED DUCT	4 SQ. DEEP W/ MUD RING - MOUNTED FLUSH DNR HOUSING
_	HEAT DETECTORS					•		•••) <u>P</u>		STATION		- NBG-12LX	WALL @ 48" TO CENTER OF BOX	4 SQ. DEEP W/ SINGLE GANG MUD RING - MOUNTED FLUSH
_	DUCT DETECTORS					•						DETECTOR	NOTIFIER		CEILING	4 SQ. DEEP W/ MUD RING - MOUNTED FLUSH
	PULL STATIONS	$\left\{ \bullet \right\}$	•			•		• •			RX BEAN	I SMOKE DETECTOR-TX/RX	NOTIFIER	- BEAM200S	FIELD VERIFY	VERIFY
	WATERFLOW SWITCHES					•		• •		\rightarrow	BEAN	I SMOKE DETECTOR-REFLECTOR	NOTIFIER	- BEAM200S	FIELD VERIFY	VERIFY
_	VALVE TAMPER SWITCHES KITCHEN HOOD					•) RTS	REMO	DTE TEST SWITCH	NOTIFIER	- RTS-151KEY	CEILING MOUNTED NEAR UNIT	SINGLE GANG 2-1/2" DEEP OR MOUNT DIRECTLY TO CEILING
-	FIRE ALARM AC POWER FAIL	$\overline{\boldsymbol{\zeta}}$		_								I CRITERIA DETECTOR W/CO DET.	NOTIFIER		CEILING	4 SQ. DEEP W/ MUD RING - MOUNTED FLUSH
	FIRE ALARM LOW BATTERY	5					•) MM			NOTIFIER			4 SQ. DEEP - MOUNTED FLUSH
	OPEN CIRCUIT	-{					•			CM CM RM		rol module	NOTIFIER			4 SQ. DEEP - MOUNTED FLUSH 4 SQ. DEEP - MOUNTED FLUSH
	GROUND FAULT	<pre>{</pre>			• •							AKER / STROBE - CEILING	NOTIFIER		CEILING	4 SQ. DEEP W/ DOUBLE GANG MUD RING - MOUNTED FLUSH
	NAC SHORT CIRCUIT	<u> </u>										AKER / STROBE	NOTIFIER		WALL @ 84" TO CENTER OF BOX	4 SQ. DEEP W/ DOUBLE GANG MUD RING - MOUNTED FLUSH
	LOSS OF AC TO BUILDING		a h			L] **SPE/	AKER / STROBE (WEATHERPROOF)	NOTIFIER	- SPSRK	WALL @ 10' TO CENTER OF BOX	4 SQ. DEEP W/ DOUBLE GANG MUD RING - MOUNTED FLUSH
CIRCUIT/CONDUCTO												DBE - CEILING MOUNT	NOTIFIER	- SCR	CEILING	4 SQ. DEEP W/ SINGLE GANG MUD RING - MOUNTED FLUSH
(L1) SLC-1 (1-#14/2 TWISTED										X	**STR	DBE	NOTIFIER	- SR	WALL @ 84" TO CENTER OF BOX	4 SQ. DEEP W/ SINGLE GANG MUD RING - MOUNTED FLUSH
(L2) SLC-2 (1-#14/2 TWISTED										SP<] **SPE/	AKER	NOTIFIER	- SPRV		4 SQ. DEEP W/ DOUBLE GANG MUD RING - MOUNTED FLUSH
(L3) SLC-3 (1-#14/2 TWISTED										DH	24VD	C MAGNETIC DOOR HOLDERS	ABH - 250	0	FIELD VERIFY	WALL MOUNT - DOUBLE GANG/NEW=FLUSH - EXIST.=SURFACE
(L4) SLC-4 (1-#14/2 TWISTED (L5) SLC-5 (1-#14/2 TWISTED										F/SD		SMOKE DAMPER	BY OTHER		BY OTHERS	BY OTHERS
	PS1-1 (CLASS A) ORANGE/BLUE									ANSUL		HEN HOOD SYSTEM	BY OTHER		VERIFY	VERIFY
	PS1-2 (CLASS A) ORANGE/BLUE									ZM		Y MODULE	NOTIFIER		IN FACP CABINET	4 SQ. DEEP - MOUNTED FLUSH
	PS1-3 (CLASS A) ORANGE/BLUE PS2-1 (CLASS A) ORANGE/BLUE										VIATION	DESCRIPTION EXISTING		ABBREVIATION	DESCRIPTION IERICAN WIRE GAUGE	L1D100 OR L1M100
	PS2-2 (CLASS A) ORANGE/BLUE										G	WITH GUARD / PROTECTIVE COV	ER	TWP TV	VISTED PAIR	(L - DENOTES LOOP #) (D or M - DENOTES DETECTOR OR MODULE #)
	PS3-1 (CLASS A) ORANGE/BLUE										R	PENDENT MOUNT RESIDENTIAL (110V)		FPLP FI	VISTED SHIELDED PAIR RE POWER LIMITED PLENUM	
	PS3-2 (CLASS A) ORANGE/BLUE PS4-1 (CLASS A) ORANGE/BLUE										S VP	SOUNDER BASE WEATHERPROOF				WIRE TYPE ABBREVIATED
	PS4-2 (CLASS A) ORANGE/BLUE										OL	END OF LINE RESISTOR END OF LINE RELAY		SPEAKER 2W WATTAGE TAP SETTING	T5 STROBE 30	WIRE SIZE # OF CABLES (IF OMITTED ONLY 1 CABLE NEEDED)
	VISTED SHIELDED) AMP1-1/2 (CLASS A)											AD DETECTOR-FOUR SENSING ELI	EMENTS:			
	VISTED SHIELDED) AMP1-3/4 (CLASS A) VISTED SHIELDED) AMP2-1/2 (CLASS A)											DETECTOR - FLAME DETECTOR THERMAL DETECTOR				
	VISTED SHIELDED) AMP3-1/2 (CLASS A)															
	VISTED SHIELDED) AMP3-3/4 (CLASS A) VISTED SHIELDED) AMP5-1/2 (CLASS A)									ALL SURF	CE MOUN	<u>SYSTEM INSTALLATION IN EXISTIN</u> T CABLE RUNS SHALL BE IN LEGR/	AND-WIREMC	DLD PN05 OR PN10 LOW-VOLT		
	VISTED SHIELDED) AMP5-3/4 (CLASS A)											DEVICES, SPEAKERS, AND SPEAK EEP DEVICE BOXES. INSTALLING (
(\$9) SPKR CKT. #8 (#16/2 TW	VISTED SHIELDED) AMP7-1/2 (CLASS A)									THE RACE	WAY FINIS	HES AND ROUTING PRIOR TO INST				
												HES AND ROUTING FRIOR TO INST	ALLATION.			
S10 SPKR CKT. #9 (#16/2 TW	, , ,												ALLATION.			
LOC HARNESS WIRING AUDIO CKT. WIRING; RE	; REMOTE MICROPHONE WIRING; EMOTE ANNUNCIATOR WIRING.															
LOC HARNESS WIRING AUDIO CKT. WIRING; RE (2-#16/2 TWISTED SHIEL (X1) DIGITAL AUDIO LOOP (D	; REMOTE MICROPHONE WIRING; EMOTE ANNUNCIATOR WIRING. LDED, 1-#14/2 AWG) DAL) WIRING (CLASS A)													ENERAL NOTES:		
LOC HARNESS WIRING AUDIO CKT. WIRING; RE (2-#16/2 TWISTED SHIEL (X1) DIGITAL AUDIO LOOP (D	; REMOTE MICROPHONE WIRING; EMOTE ANNUNCIATOR WIRING. LDED, 1-#14/2 AWG) DAL) WIRING (CLASS A) DED BELDEN 5320UJ, BELDEN 5320UM, OR BETTER;													POWER-LIMITED AND NO		S MUST REMAIN SEPARATED IN CABINET. ALL
 LOC HARNESS WIRING AUDIO CKT. WIRING; RE (2-#16/2 TWISTED SHIEL DIGITAL AUDIO LOOP (D (1-#16/2 TWP UNSHIELD SYNC CIRCUIT WIRING ((2-#14 THHN STRANDED 	; REMOTE MICROPHONE WIRING; EMOTE ANNUNCIATOR WIRING. LDED, 1-#14/2 AWG) DAL) WIRING (CLASS A) DED BELDEN 5320UJ, BELDEN 5320UM, OR BETTER; (CLASS A) D) PINK/PURPLE			AE	DITIONAL	FIRE ALA	<u>RM SYS</u>	TEM INST	ALLATION N					POWER-LIMITED AND NO POWER-LIMITED CIRCU WIRING. FURTHERMORE	T WIRING MUST REMAIN AT LEAST (E, ALL POWER-LIMITED AND NONPO	0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT
V1 LOC HARNESS WIRING AUDIO CKT. WIRING; RE (2#16/2 TWISTED SHIEL X1 DIGITAL AUDIO LOOP (D (1-#16/2 TWP UNSHIELD X2 SYNC CIRCUIT WIRING ((2-#14 THHN STRANDED (RX) REMOTE TEST SWITCH	; REMOTE MICROPHONE WIRING; EMOTE ANNUNCIATOR WIRING. LDED, 1-#14/2 AWG) DAL) WIRING (CLASS A) DED BELDEN 5320UJ, BELDEN 5320UM, OR BETTER; (CLASS A) D) PINK/PURPLE			- /	LL SPEAK	ER WIRE	SHALL E	3E #16/2 T	FWISTED ANI	<u>DTES:</u>) SHIELDED.	E SET TO			POWER-LIMITED AND NO POWER-LIMITED CIRCU WIRING. FURTHERMORE	T WIRING MUST REMAIN AT LEAST (0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT
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THIS IS AN ADDRESSABLE FIRE ALARM SYSTEM. COORDINATE DEVICE ADDRESSES AND MAPPING WITH DAVE FULLMER - CCSD (435) 994-0350.

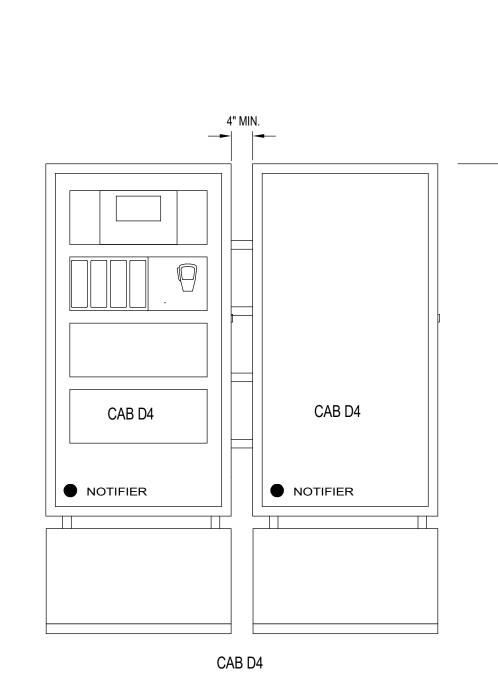


- 120VAC POWER / SWITCH / LAN DIN RAIL FCPS-24S8 NAC POWER SUPPLY -----
- FCPS-24S8 DOOR HOLDER POWER SUPPLY

INTERIOR CABINET VIEW

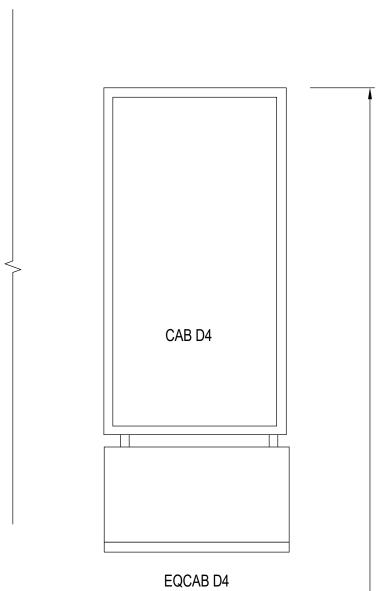
FIRE ALARM POWER SUPPLY CABINET DETAIL SCALE: NTS

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EXTERIOR CABINET VIEW

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EXTERIOR CABINET VIEW

- <u>~ Keu</u> 13. WIRE. PROVIDE LABEL FOR EACH.
- FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES SHALL BE SET TO: WATTAGE TAP SETTINGS ON ALL VOICE EVACUATION SPEAKERS SHALL BE SET
- 15. TO 1/2 WATT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL FIRE ALARM SYSTEM 'J' BOX COVERS AND CONDUIT MUST BE
- 16. DUCT SMOKE DETECTOR LOCATIONS MUST BE APPROVED BY CCSD DAVE FULLMER (435) 994-0350 PRIOR TO INSTALLATION.

- 17. ALL SPEAKERS, STROBES AND SPEAKER STROBES SHALL BE IN COLOR.
- 18.

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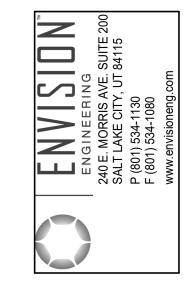
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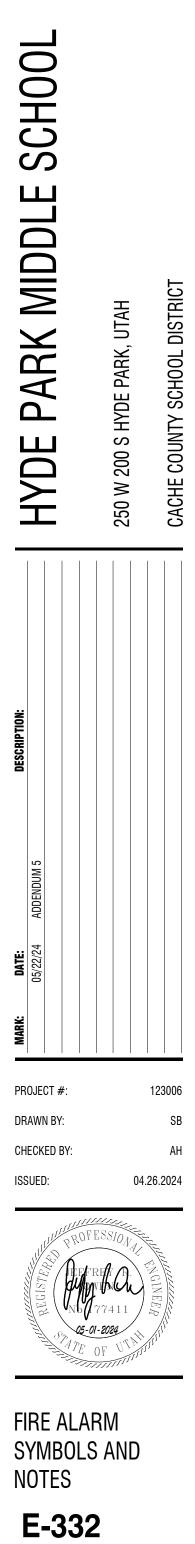
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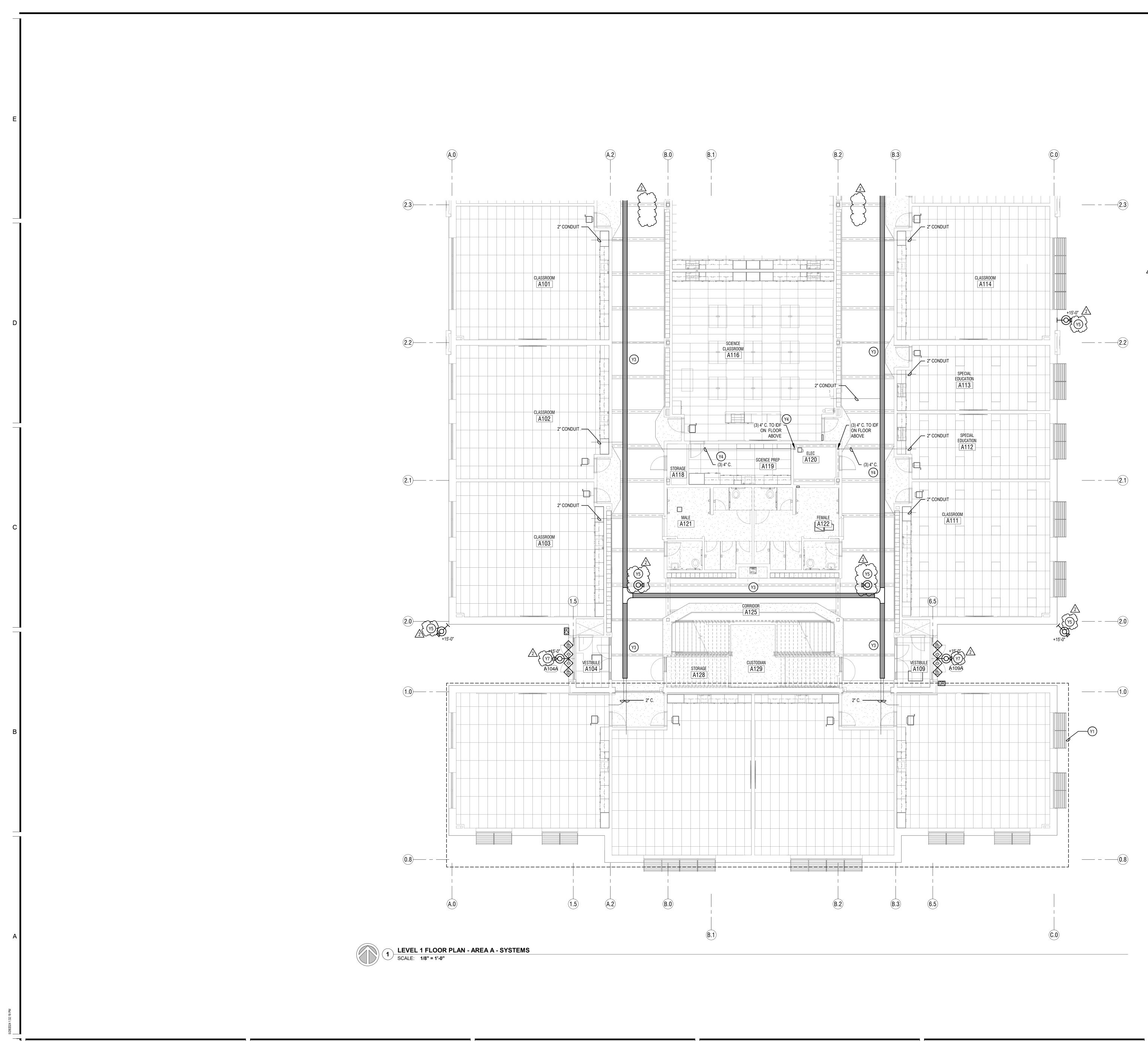
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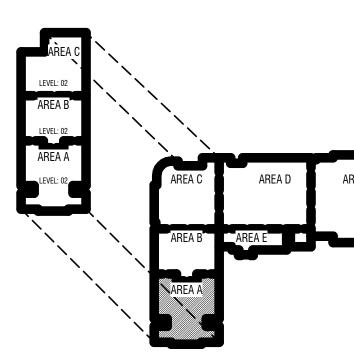
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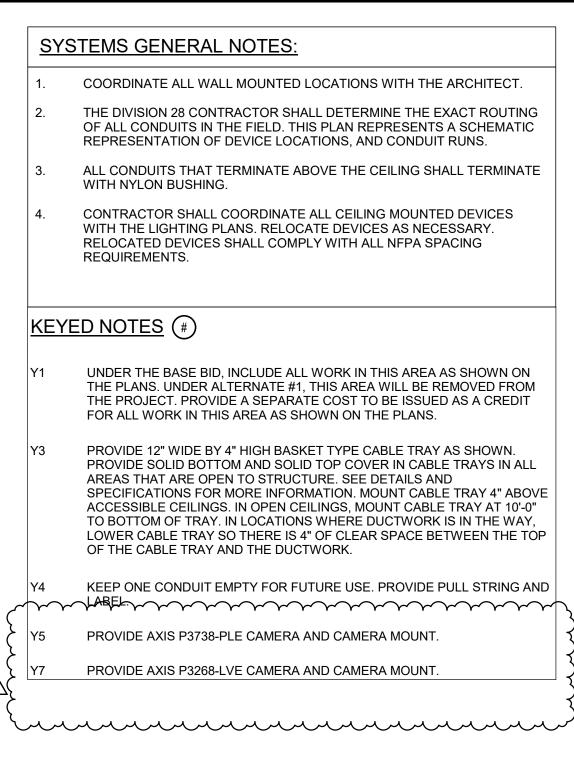
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1.	COORDINATE ALL WALL MOUNTED LOCATIONS WITH
2.	THE DIVISION 28 CONTRACTOR SHALL DETERMINE TH OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESE REPRESENTATION OF DEVICE LOCATIONS, AND CONE
3.	ALL CONDUITS THAT TERMINATE ABOVE THE CEILING WITH NYLON BUSHING.
4.	CONTRACTOR SHALL COORDINATE ALL CEILING MOU WITH THE LIGHTING PLANS. RELOCATE DEVICES AS N RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA REQUIREMENTS.
KEY	<u>ED NOTES</u> (#)
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Y1 Y3	UNDER THE BASE BID, INCLUDE ALL WORK IN THIS AR THE PLANS. UNDER ALTERNATE #1, THIS AREA WILL B THE PROJECT. PROVIDE A SEPARATE COST TO BE ISS FOR ALL WORK IN THIS AREA AS SHOWN ON THE PLAN PROVIDE 12" WIDE BY 4" HIGH BASKET TYPE CABLE TH PROVIDE SOLID BOTTOM AND SOLID TOP COVER IN C/ AREAS THAT ARE OPEN TO STRUCTURE. SEE DETAILS SPECIFICATIONS FOR MORE INFORMATION. MOUNT C/ ACCESSIBLE CEILINGS. IN OPEN CEILINGS, MOUNT CA TO BOTTOM OF TRAY. IN LOCATIONS WHERE DUCTWO LOWER CABLE TRAY SO THERE IS 4" OF CLEAR SPACE OF THE CABLE TRAY AND THE DUCTWORK.
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KEY PLAN

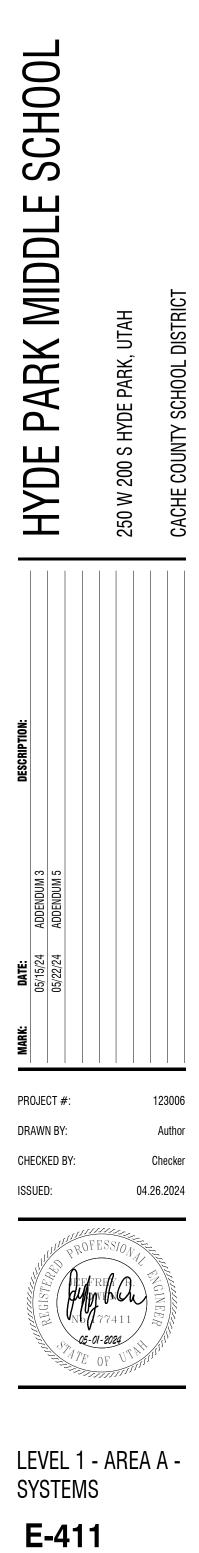
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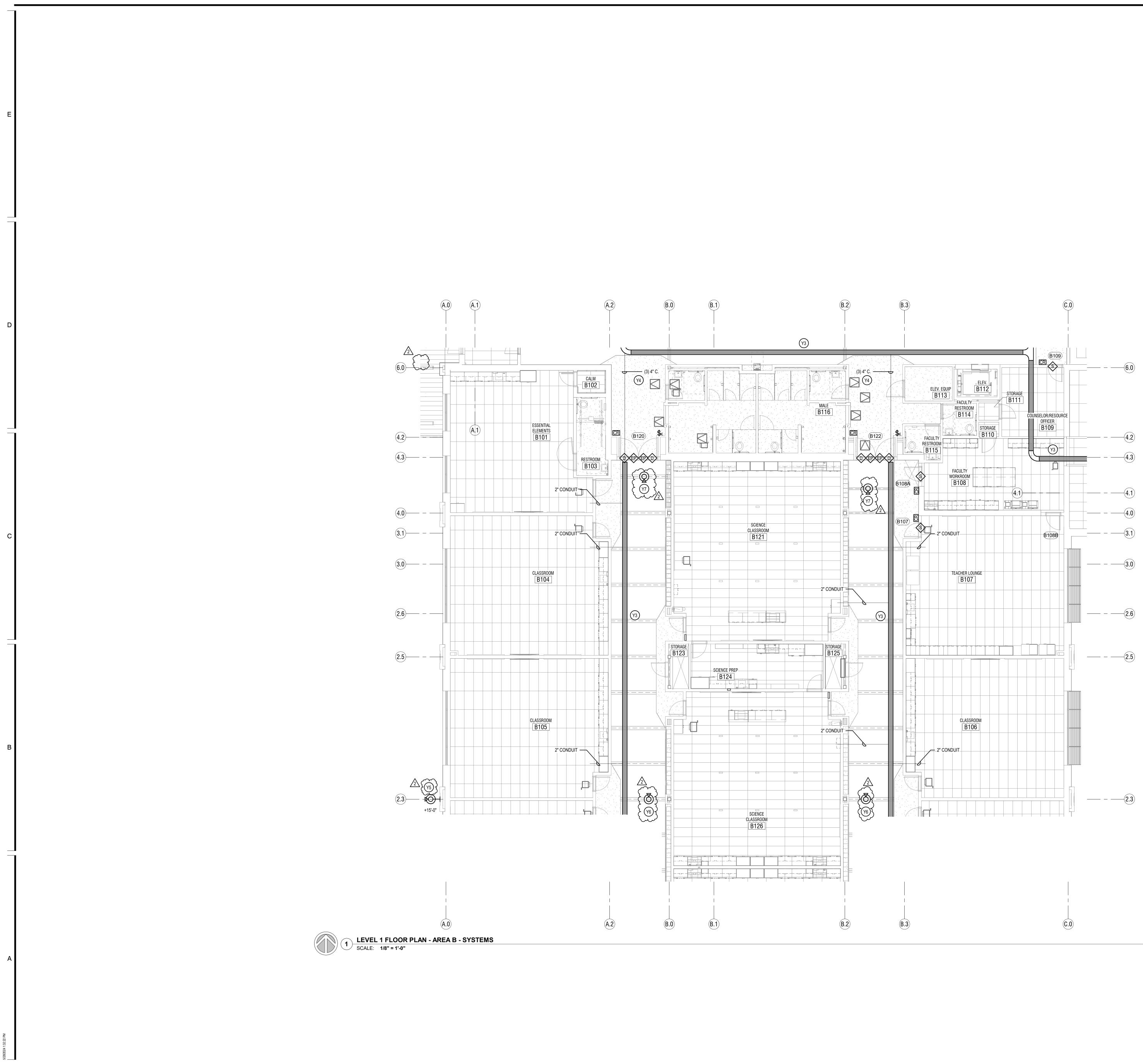




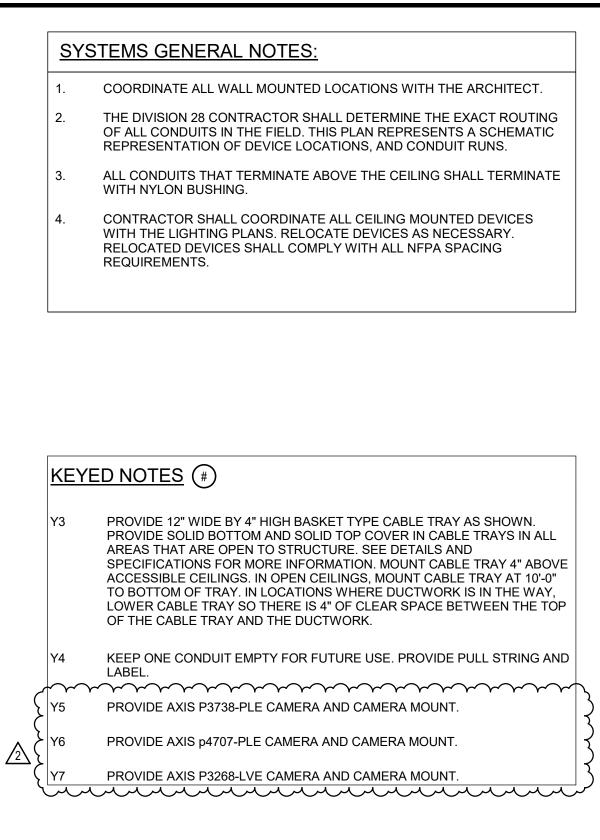


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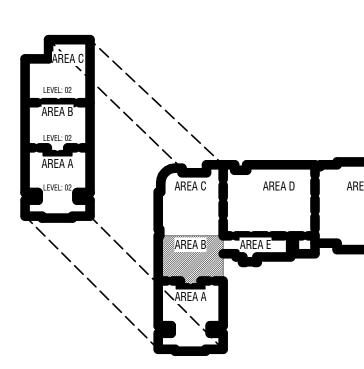
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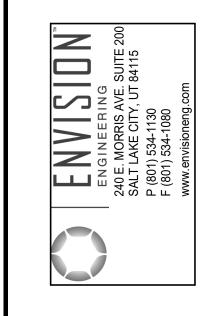
- WITH NYLON BUSHING.

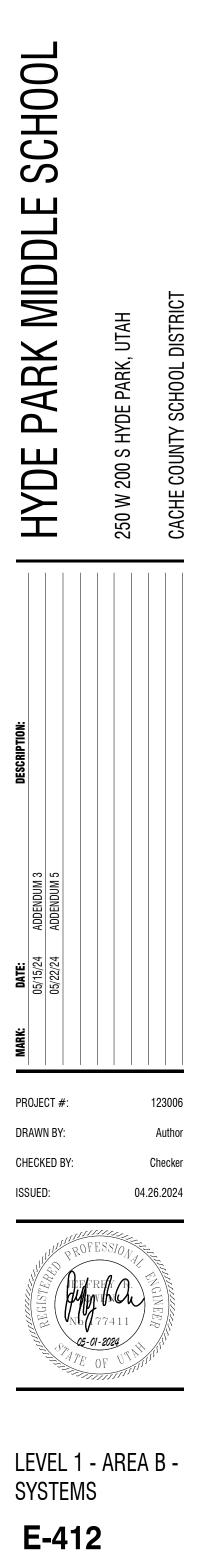












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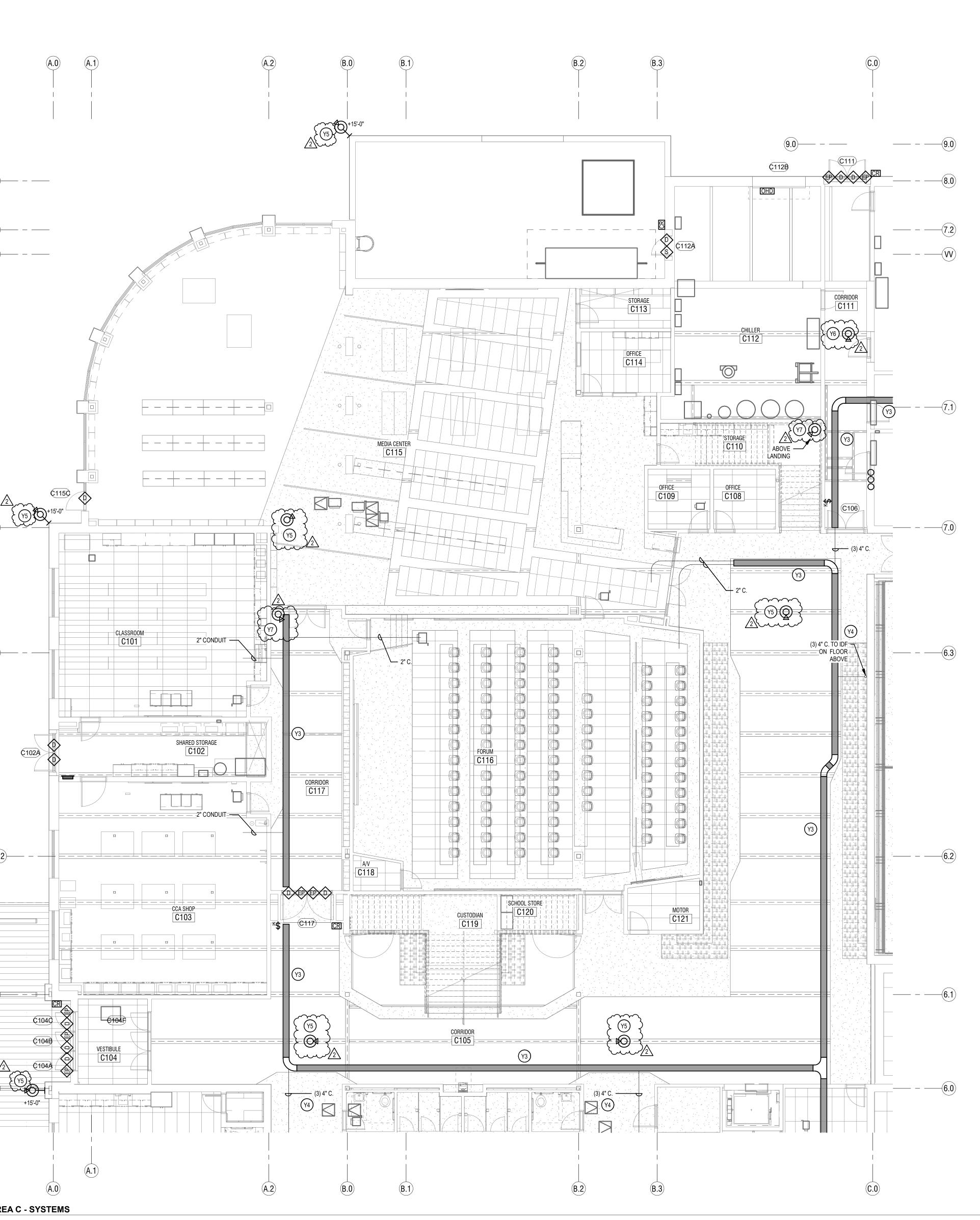
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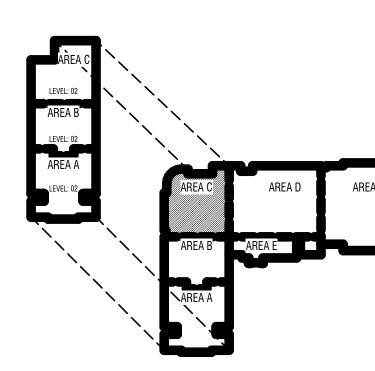
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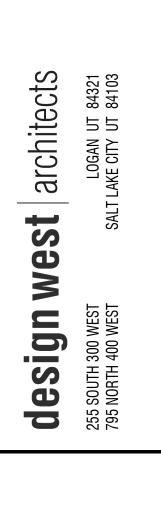
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Y3	PROVIDE 12" WIDE BY 4" HIGH BASKET TYPE CAE PROVIDE SOLID BOTTOM AND SOLID TOP COVEF AREAS THAT ARE OPEN TO STRUCTURE. SEE DE SPECIFICATIONS FOR MORE INFORMATION. MOL ACCESSIBLE CEILINGS. IN OPEN CEILINGS, MOU TO BOTTOM OF TRAY. IN LOCATIONS WHERE DU LOWER CABLE TRAY SO THERE IS 4" OF CLEAR S
Y3 Y4 Ƴ∽∽	PROVIDE 12" WIDE BY 4" HIGH BASKET TYPE CAE PROVIDE SOLID BOTTOM AND SOLID TOP COVEF AREAS THAT ARE OPEN TO STRUCTURE. SEE DE SPECIFICATIONS FOR MORE INFORMATION. MOU ACCESSIBLE CEILINGS. IN OPEN CEILINGS, MOU TO BOTTOM OF TRAY. IN LOCATIONS WHERE DU LOWER CABLE TRAY SO THERE IS 4" OF CLEAR S OF THE CABLE TRAY AND THE DUCTWORK. KEEP ONE CONDUIT EMPTY FOR FUTURE USE. P
KEY Y3 Y4 Ƴ∽ Y5 Y6	PROVIDE 12" WIDE BY 4" HIGH BASKET TYPE CAE PROVIDE SOLID BOTTOM AND SOLID TOP COVEF AREAS THAT ARE OPEN TO STRUCTURE. SEE DE SPECIFICATIONS FOR MORE INFORMATION. MOU ACCESSIBLE CEILINGS. IN OPEN CEILINGS, MOU TO BOTTOM OF TRAY. IN LOCATIONS WHERE DU LOWER CABLE TRAY SO THERE IS 4" OF CLEAR S OF THE CABLE TRAY AND THE DUCTWORK. KEEP ONE CONDUIT EMPTY FOR FUTURE USE. P

KEY PLAN

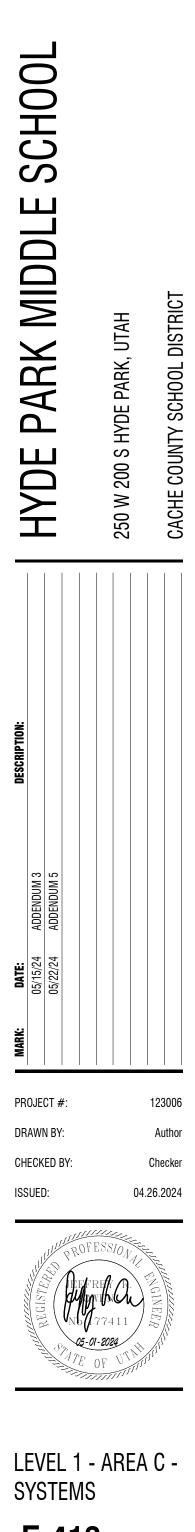
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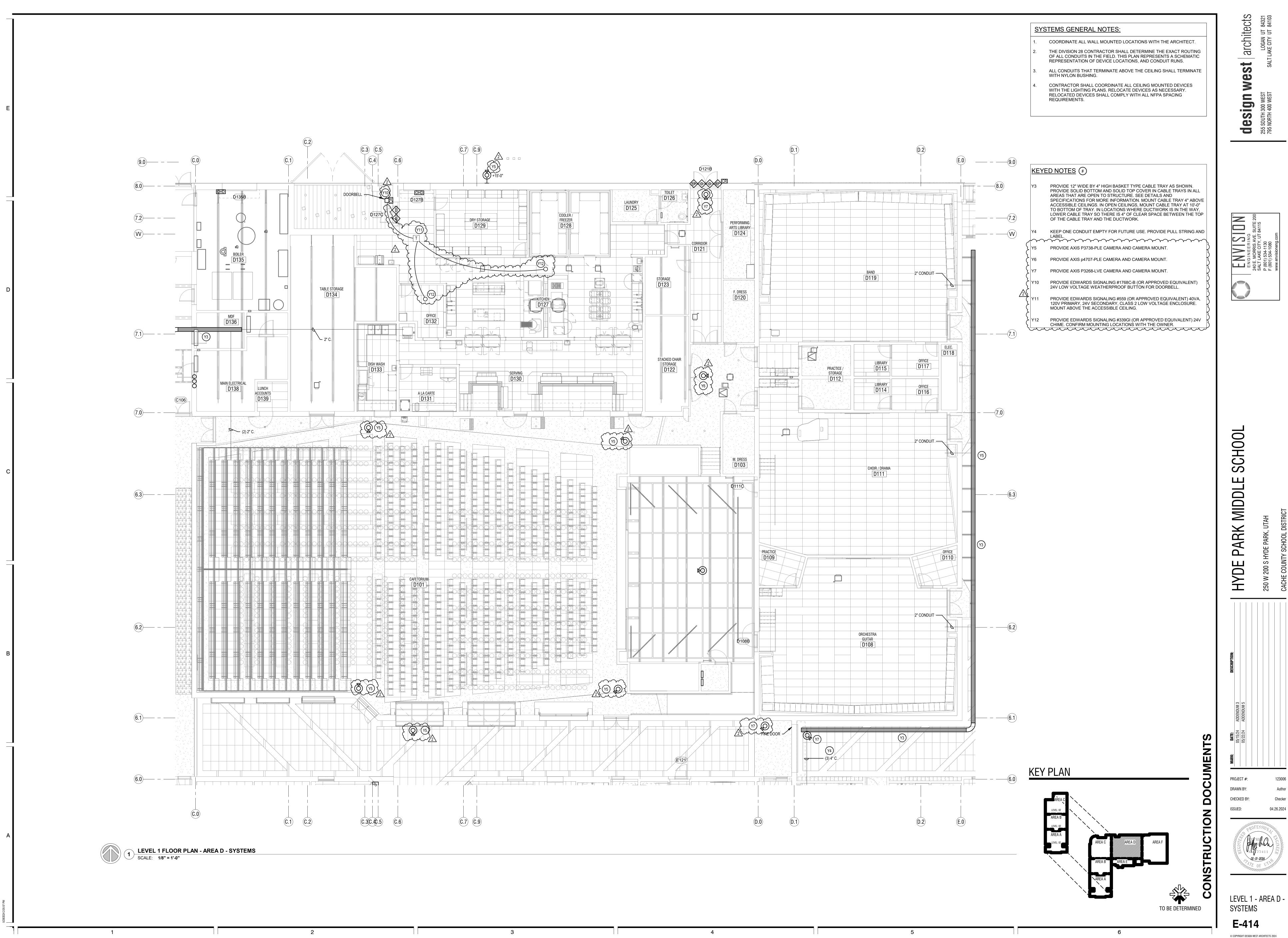
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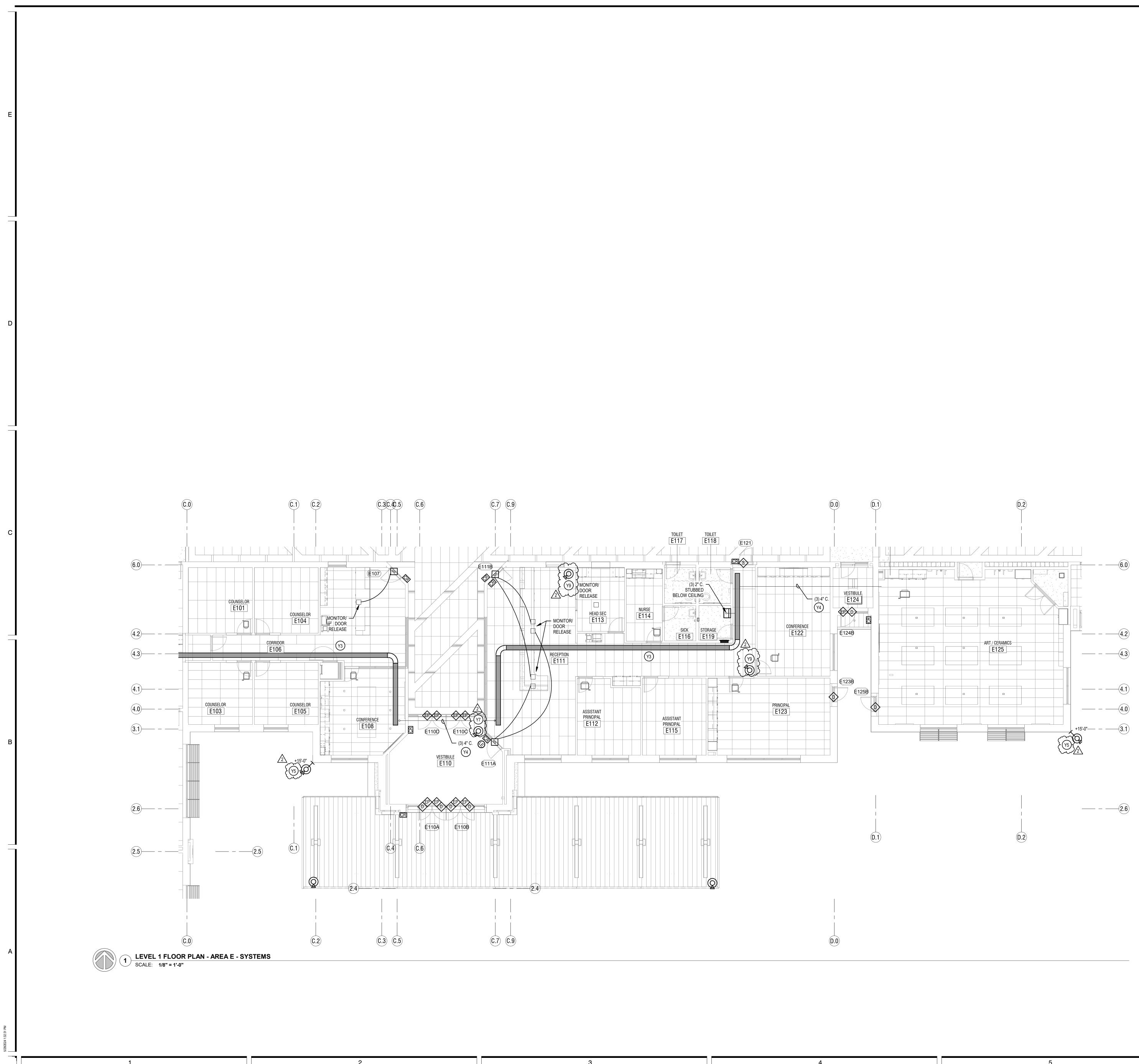
DO

TRUCTION

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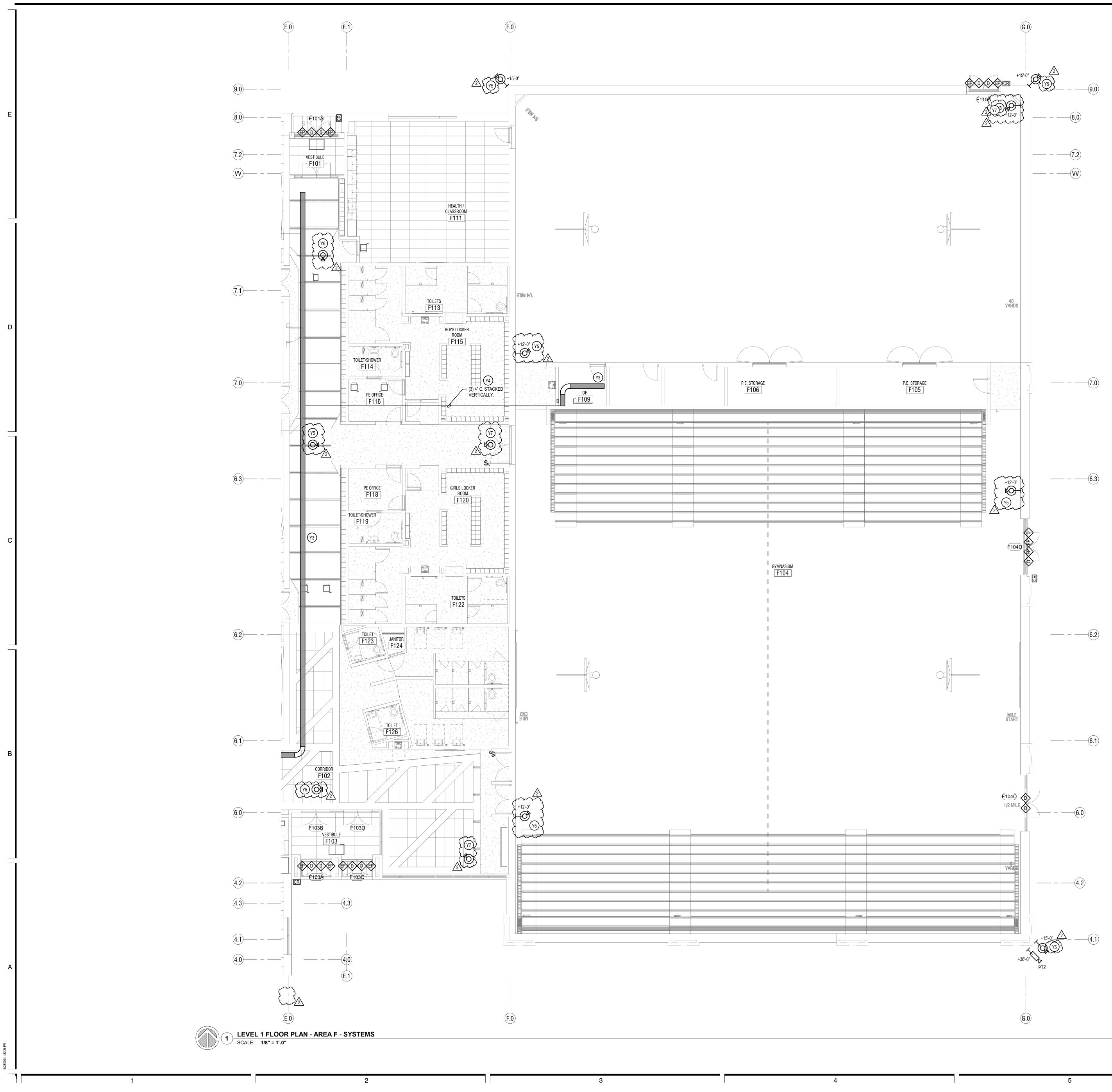
TO BE DETERMINED







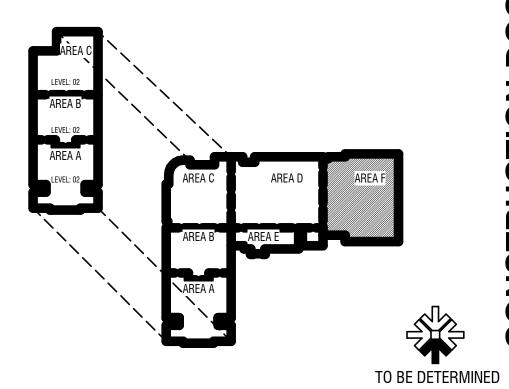


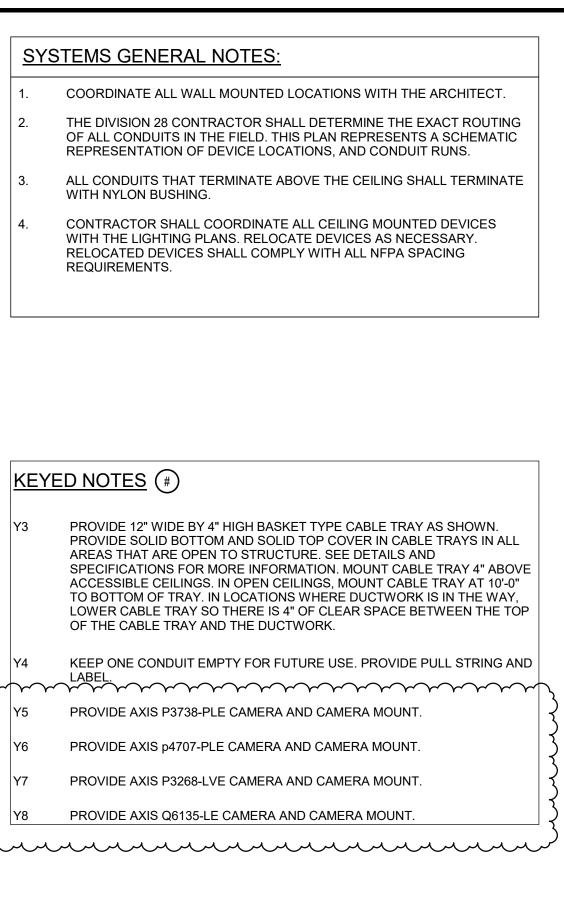


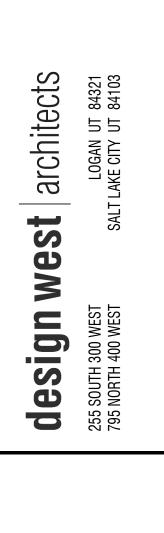
<u>SYS</u> 1. 2. 3. 4.	TEMS GENERAL NOTES: COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE E OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SH WITH NYLON BUSHING. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTE WITH THE LIGHTING PLANS. RELOCATE DEVICES AS NECH RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SP REQUIREMENTS.
2. 3.	THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE E OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SH WITH NYLON BUSHING. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTE WITH THE LIGHTING PLANS. RELOCATE DEVICES AS NECH RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SP
3.	OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SH WITH NYLON BUSHING. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTE WITH THE LIGHTING PLANS. RELOCATE DEVICES AS NECH RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SP
-	WITH NYLON BUSHING. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTE WITH THE LIGHTING PLANS. RELOCATE DEVICES AS NECH RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SP
4.	WITH THE LIGHTING PLANS. RELOCATE DEVICES AS NECH RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SP
KEYE	D NOTES (#)
Y3	PROVIDE 12" WIDE BY 4" HIGH BASKET TYPE CABLE TRAY PROVIDE SOLID BOTTOM AND SOLID TOP COVER IN CABL AREAS THAT ARE OPEN TO STRUCTURE. SEE DETAILS AN SPECIFICATIONS FOR MORE INFORMATION. MOUNT CABL ACCESSIBLE CEILINGS. IN OPEN CEILINGS, MOUNT CABLE TO BOTTOM OF TRAY. IN LOCATIONS WHERE DUCTWORK LOWER CABLE TRAY SO THERE IS 4" OF CLEAR SPACE BE OF THE CABLE TRAY AND THE DUCTWORK.
Y4	KEEP ONE CONDUIT EMPTY FOR FUTURE USE. PROVIDE F
Y5	PROVIDE AXIS P3738-PLE CAMERA AND CAMERA MOUNT.
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Y6	PROVIDE AXIS p4707-PLE CAMERA AND CAMERA MOUNT.
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Y8

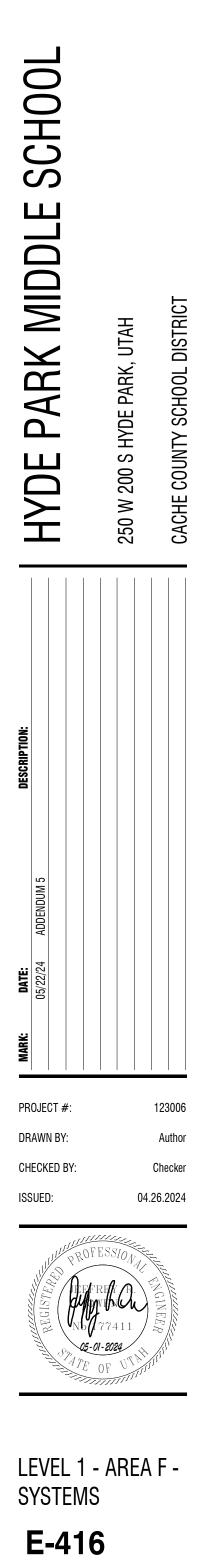
KEY PLAN











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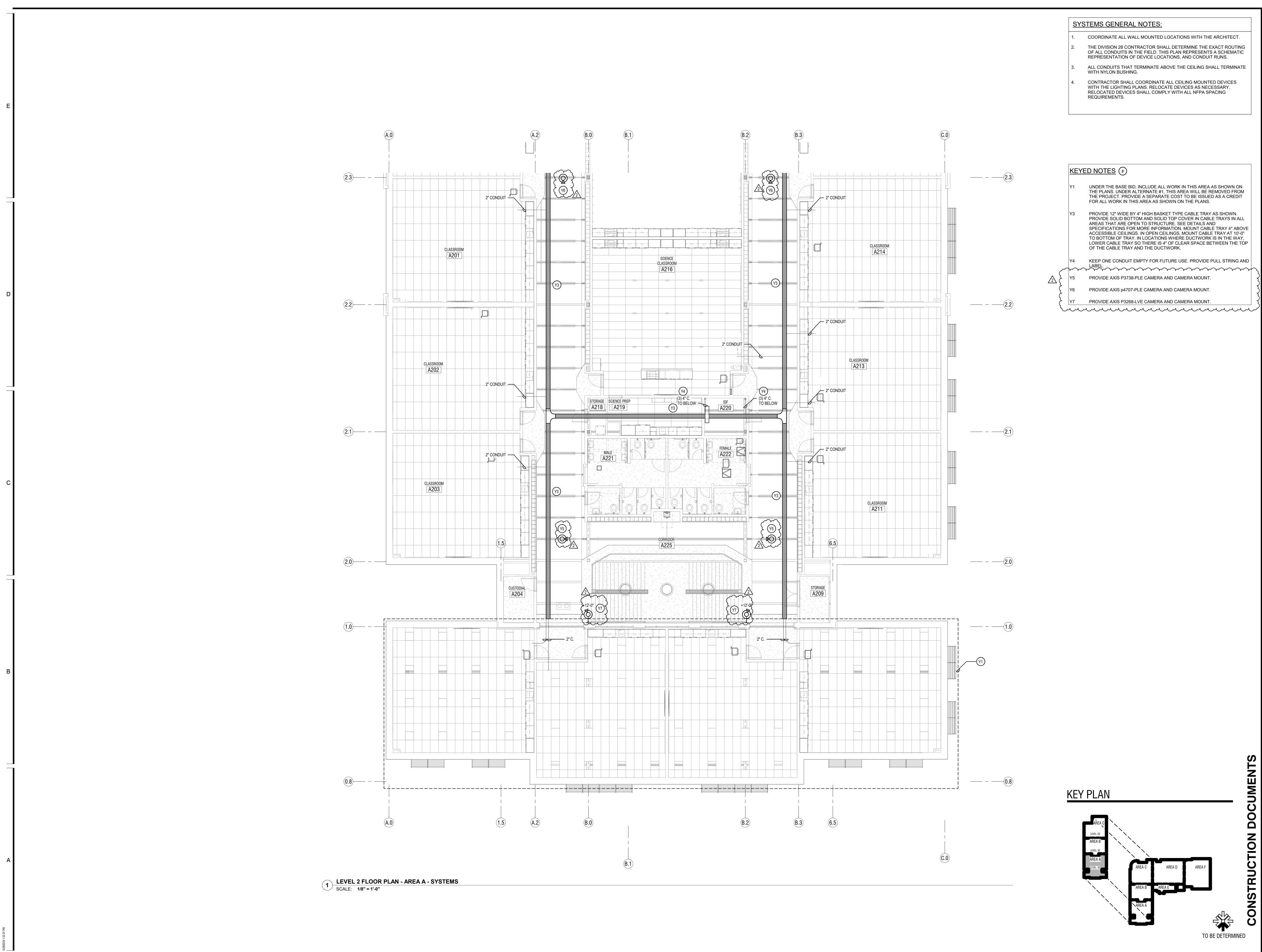
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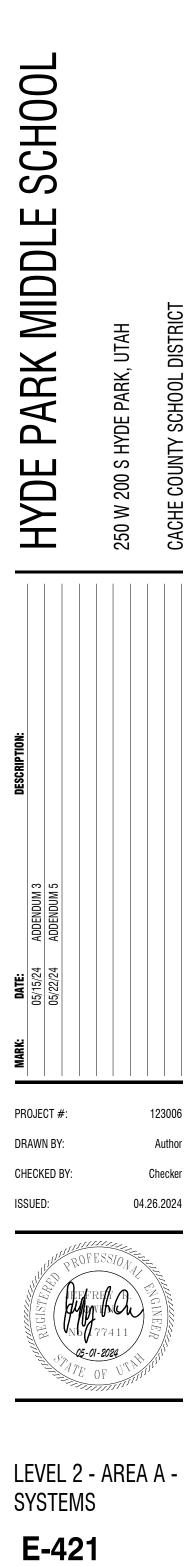
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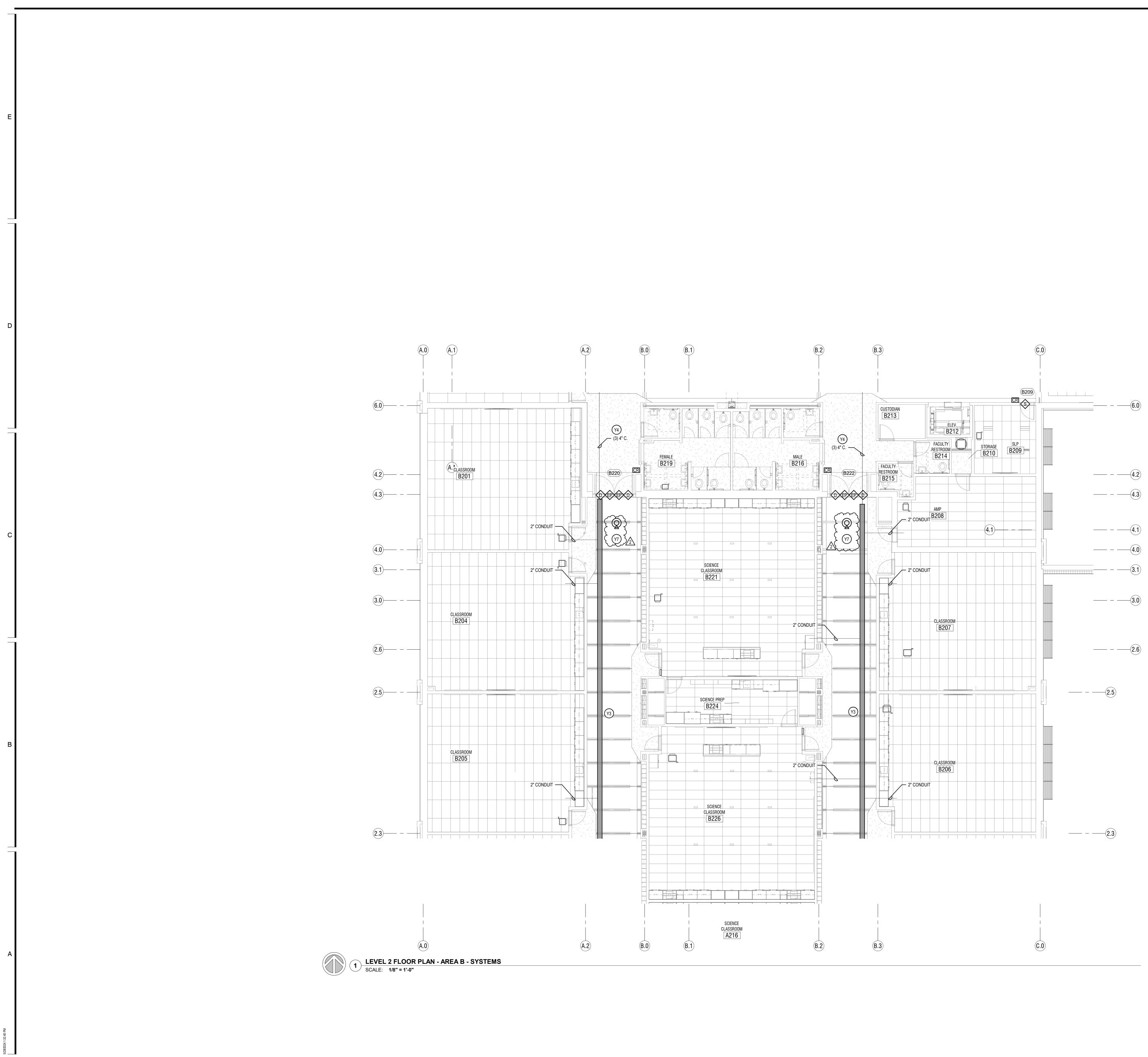










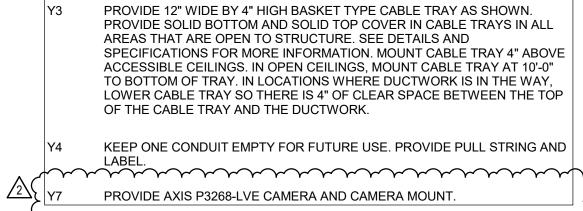


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SYSTEMS GENERAL NOTES:

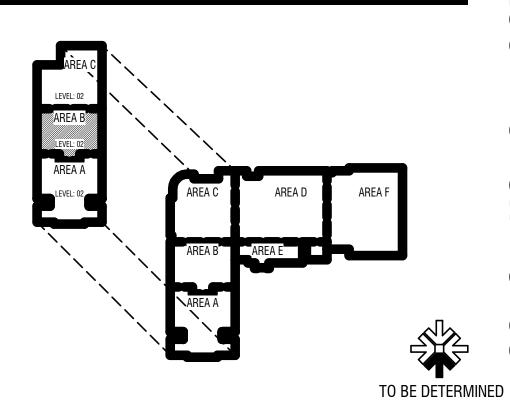
- THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT RUNS.
- ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE WITH NYLON BUSHING.
- CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE LIGHTING PLANS. RELOCATE DEVICES AS NECESSARY. RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SPACING REQUIREMENTS.

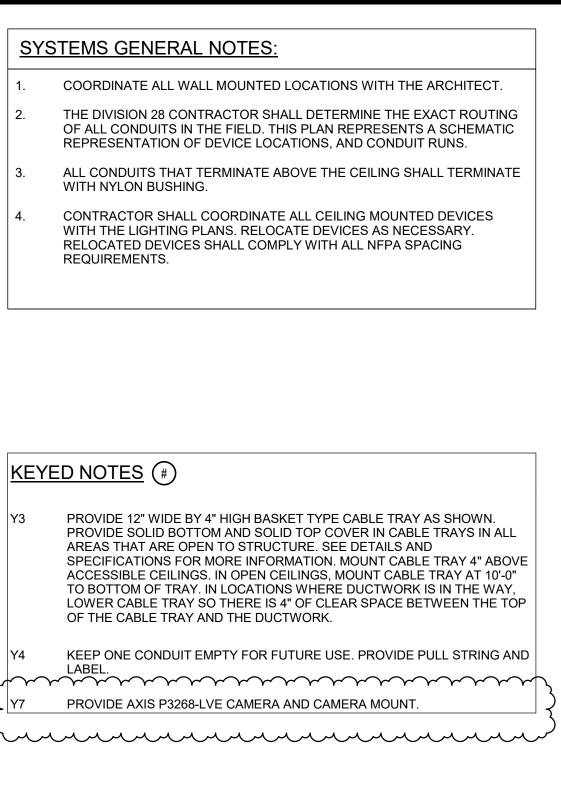
KEYED NOTES (#)



KEY PLAN

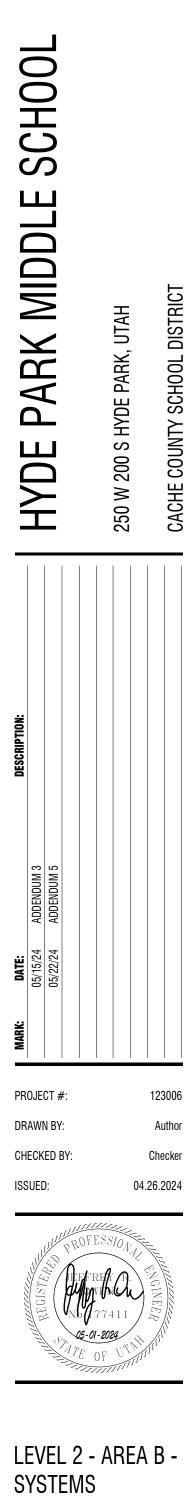
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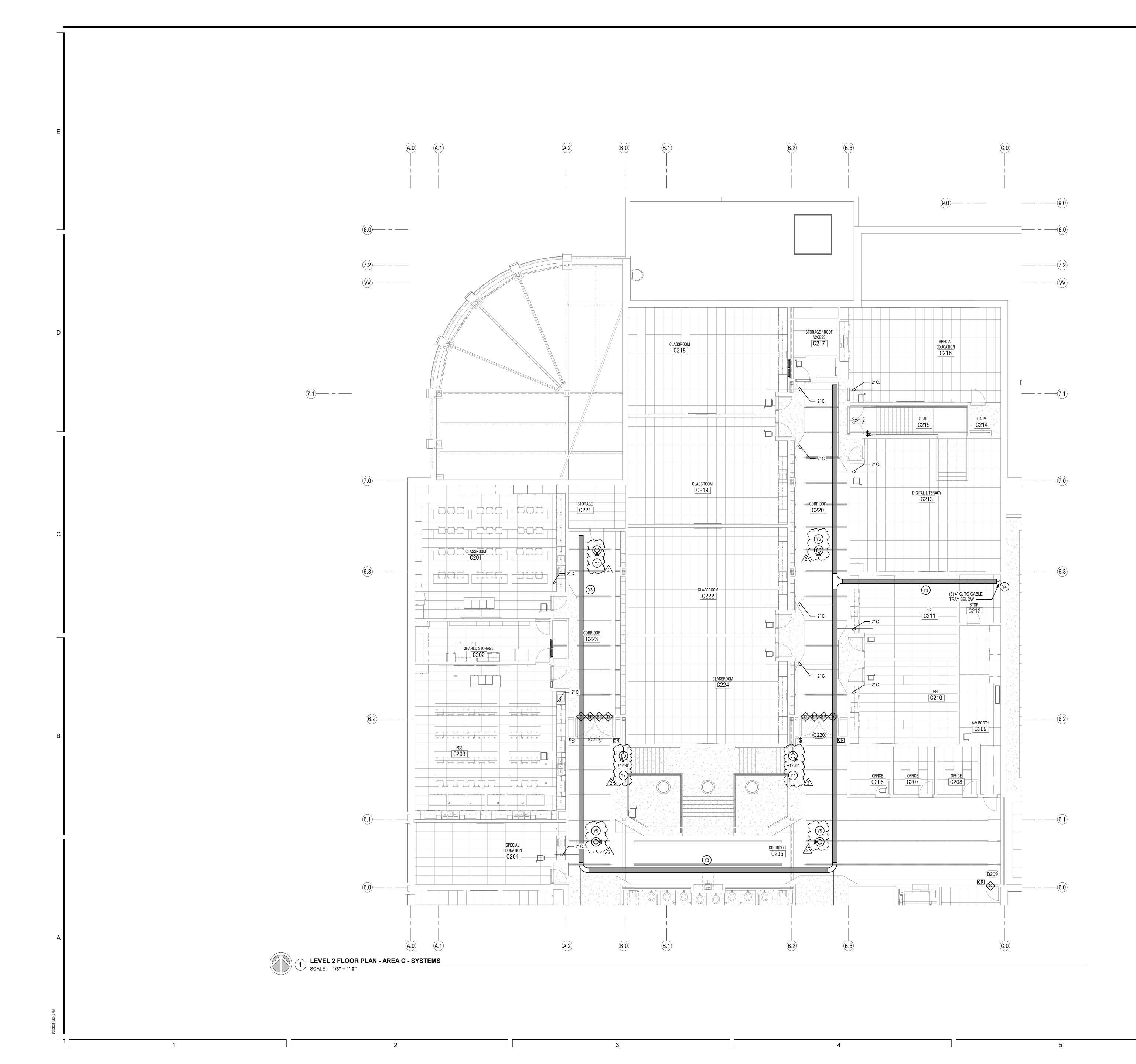
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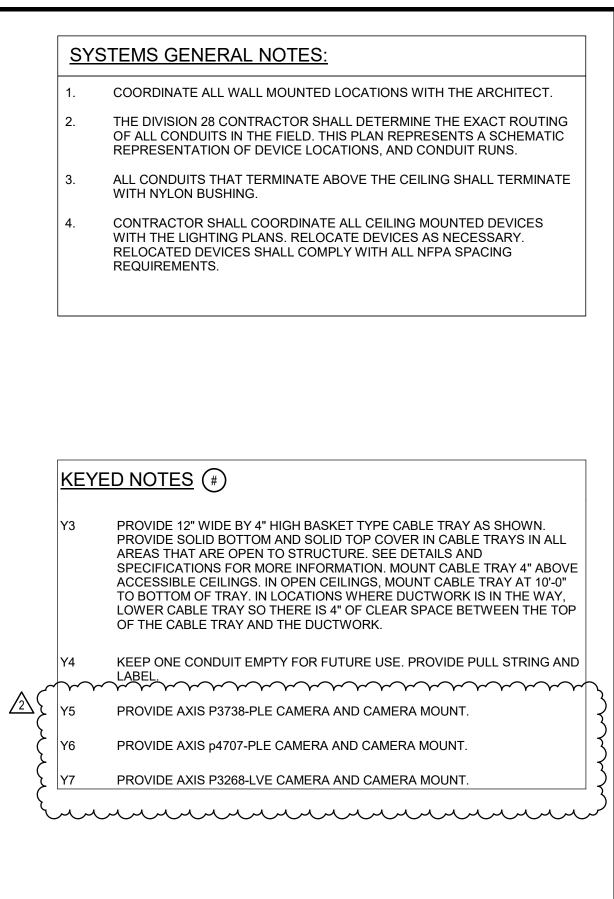
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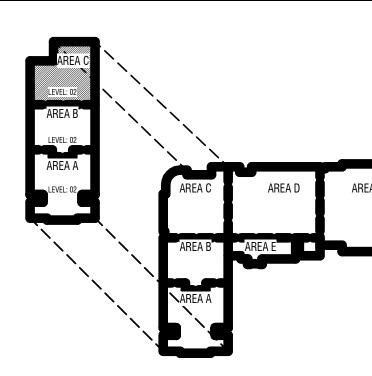




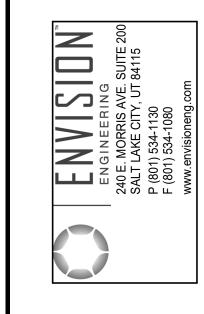
SYSTEMS GENERAL NOTES: WITH NYLON BUSHING. REQUIREMENTS.

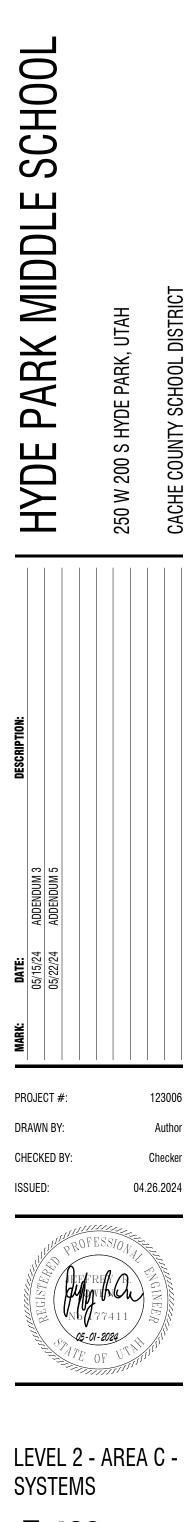


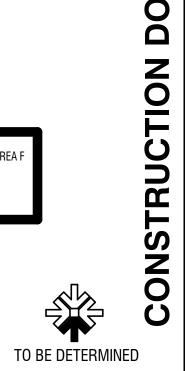












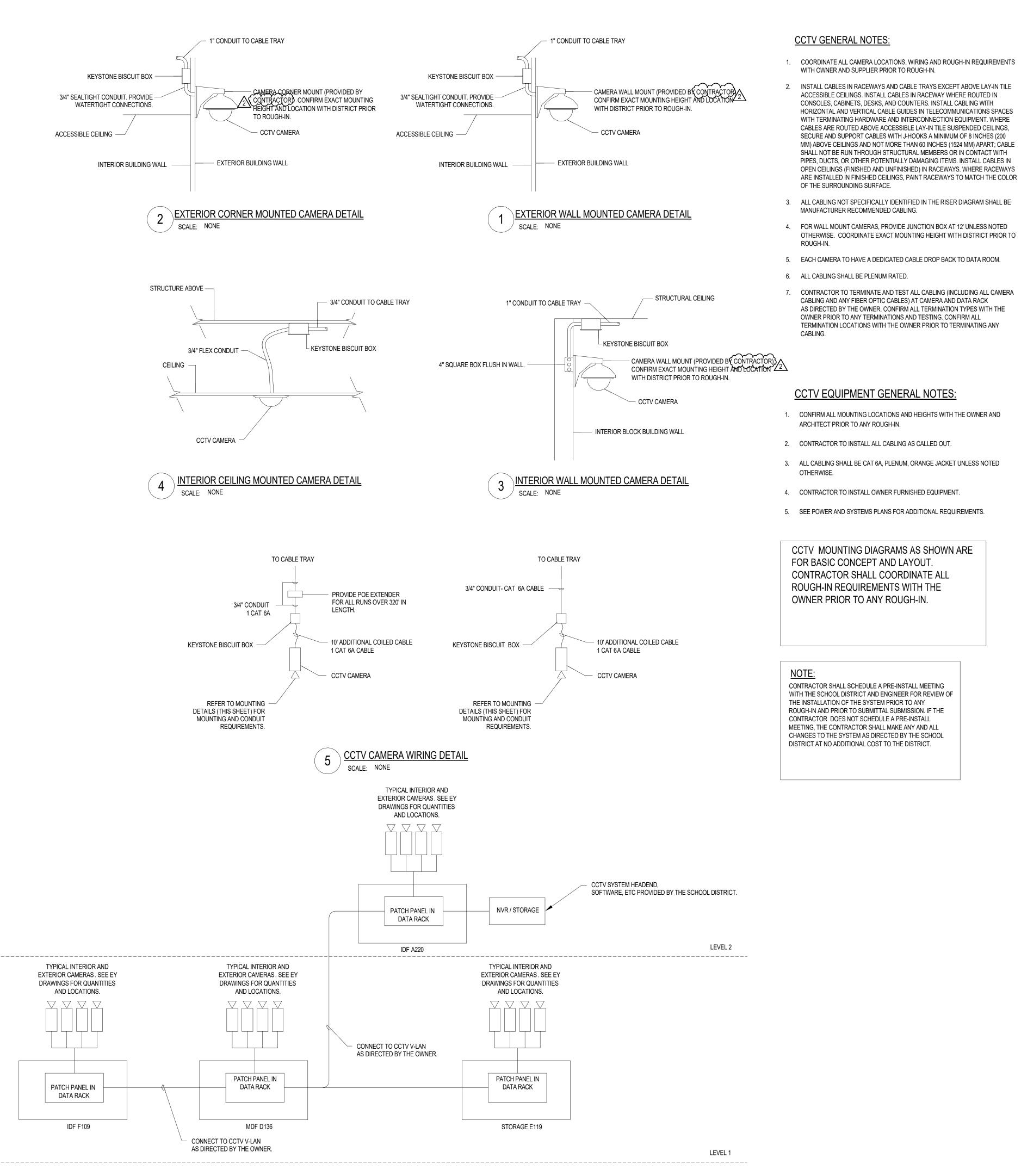
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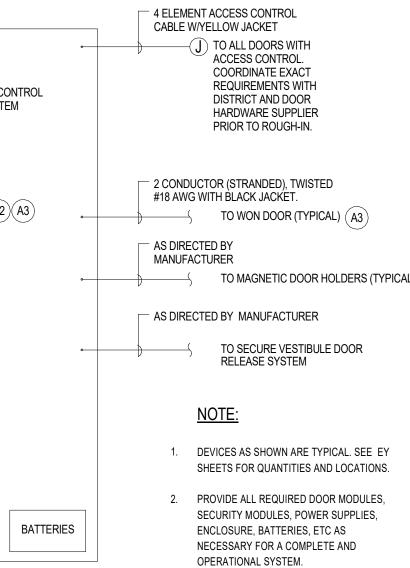
E				
D				
С	DOORS THAT ARE HELD OPEN BY ELECTRONIC DOOR HOLDERS: DOORS THAT ARE HELD OPEN BY ELECTRONIC DOOR HOLDER SHALL FUNCTION AS FOLLOWS: FIRE ALARM UPON ACTIVATION OF THE FIRE ALARM SYSTEM THE DOORS BEING HELD OPEN WITH ELECTRONIC DOOR HOLDERS SHALL RELEASE AND CLOSE. THE FIRE ALARM SYSTEM SHALL NOTIFY THE ACCESS CONTROL SYSTEM THAT THE FIRE ALARM HAS ACTIVATED AND UNLOCK ALL DOORS THAT ARE CONTROLLED THROUGH THE ACCESS CONTROL SYSTEM. LOCK DOWN UPON ACTIVATION OF A LOCK DOWN THE ACCESS CONTROL SYSTEM. THE ALCREASE CONTROLLED BY THE ACCESS CONTROL SYSTEM. THE ALCESS CONTROL SYSTEM SHALL NOTIFY THE FIRE ALARM SYSTEM THAT A LOCK DOWN HAS BEEN INITIATED AND RELEASE ALL DOOR HELD OPEN WITH ELECTRONIC DOOR HOLDERS. THE FIRE ALARM SYSTEM AND ACCESS CONTROL SYSTEM INTEGRATORS SHALL WORK CLOSELY TOGETHER AND WITH THE DISTRICT TO PROVIDE THE REQUIRED PROGRAMMING AND INPUTS SO DOORS FUNCTION AS STATED ABOVE.	NOTE: Contractor shall schedule a pre-install meeting with the school district and engineer for review of the installation of the system prior to any rough-in and prior to submittal submission. If the contractor does not schedule a pre-install meeting, the contractor shall make any and all changes to the system as directed by the school district at no additional cost to the district. KEYPAD - OWNER PROVIDED Image: Sconductor #22 AWG PLENUM RATED CABLE WITH BLACK JACKET, VIA 3/4" C OR CABLE TRAY	ACCESS CONTROL SYSTEM	4 ELEMENT ACCESS CONTROL CABLE W/YELLOW JACKET J TO ALL DOORS WITH ACCESS CONTROL. COORDINATE EXACT REQUIREMENTS WITH DISTRICT AND DOOR HARDWARE SUPPLIER PRIOR TO ROUGH-IN. 2 CONDUCTOR (STRANDED), TWISTED #18 AWG WITH BLACK JACKET. J TO WON DOOR (TYPICAL AS DIRECTED BY MANUFACTURER J TO MAGNETIC DOOR HO AS DIRECTED BY MANUFACTURER J TO SECURE VESTIBULE I RELEASE SYSTEM
B	 ACCESS CONTROL DOOR SEQUENCE OF OPERATIONS EXTERIOR ACCESS CONTROLLED DOORS SHALL FUNCTION AS FOLLOWS: THE EXTERIOR ACCESS CONTROLLED DOORS SHALL FUNCTION AS DIRECTED BY THE OW HOURS OF OPERATIONS. THE EXTERIOR ACCESS CONTROLLED DOORS SHALL GO INTO LOCK DOWN MODE AND LO / DURESS BUTTON IS PUSHED. PUSHING THE LOCK DOWN BUTTON AGAIN WILL RETURN / PRIOR TO THE LOCK DOWN VIDHESS BUTTON IS PUSHED. ONCE THE LOCK DOWN / DURESS BUTTON IS PUSHED AND THE ACCESS CONTROLLED DO SYSTEM SHALL CALL THE MONITORING COMPANY AND NOTIFY THE MONITORING COMPAN DISPATCH AS PREDETERMINED BY THE OWNER. DOOR ROUGH-IN GENERAL NOTES: CONTRACTOR SHALL WORK CLOSELY WITH THE DOOR HARDWARE SUPPLIER AND ACC REQUIREMENTS, ROUGH-IN AND WIRING. CONTRACTOR SHALL COORDINATE ALL JUNCTION BOX ROUGH-IN LOCATIONS WITH THI SUPPLIER PRIOR TO ANY ROUGH-IN. ALL CABLING TO DEVICES THAT ARE INSTALLED WITHIN DOOR OR ON MULLIONS SHALL NATION WITH THE THE WINDOW SYSTEM INSTALLED BEDRIOR TO ANY POLICI IN 	OCK ALL EXTERIOR DOORS ONCE THE LOCK DOWN ALL THE EXTERIOR DOORS THE STATE OF FUNCTION OORS ARE IN LOCK DOWN MODE, THE NY THAT THE SCHOOL IS IN LOCK DOWN AND CESS CONTROL SYSTEM SUPPLIER FOR DOOR NE OWNER AND ACCESS SYSTEM CONTROL SYSTEM	WEB BATTERIES BA	TERMINATION AT EACH END. OM NUMBER.
5/28/2024 1:32:43 PM	 INSTALLATION WITH THE WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. ACCESS CONTROL SYSTEM TO POWER ALL ELECTRIFIED DOOR HARDWARE THROUGH THE ACCESS CONTROL SYSTEM. CONFIRM ALL REQUIREMENTS WITH THE DOOR HARDWARE SUPPLIER. PROVIDE ALL REQUIRED POWER SUPPLIES AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. FIRE ALARM SYSTEM TO POWER ALL MAGNETIC DOOR HOLDERS, WHERE CALLED OUT THROUGHTHE ALARM SYSTEM. CONFIRM ALL REQUIREMENTS WITH THE DOOR HARDWARE SUPPLIE. PROVIDE ALL REQUIRED POWER SUPPLIES AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. ACCESS CONTROL SYSTEM TO CONTROL ALL WON DOORS AS CALLED OUT. CONFIRM ALL REQUIREMENTS WITH THE DOOR SUPPLIER. PROVIDE ALL REQUIRED DOOR CONTROLLERS AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. 	OLKEYED NOTES: A# 1. REMOTE LINE INTERFACE (RLI): THE MODULE SHALL BE CAPABLE OF FOR LOCK/UNLOCK, PATRON DEVICES (PAT) AND RESET AND SHALL THE LOK THE LINES BETWEEN THE LOK MODULE AND THE RLI SHALL FOR LINE SHORTS, OPEN LINES, AND LINES SHORTED TO GROUND. TAT INPUTS SHALL BEHAVE THE SAME AS THE LOCAL INPUTS OF THE EXCEPTION THAT THE RLI PAT INPUT IS NOT IGNORED WHEN THE PAN ASSERTED. THE RESET INPUT SHALL BE CAPABLE OF RESTORING TH OPERATION FROM THE PANIC AND FIRE MODES PROVIDED THE CAUSA AND/OR FIRE CONDITION HAS BEEN RESTORED TO THE RLI INPUTS OF CONTACTS OR THEY CAN BE DRIVEN BY VOLTAGES BETWEEN 12-24 HAS A SEPARATE SELECTOR SWITCH FOR THE DRY CONTACT VS VOLOK MODULE IS FURNISHED WITH THE WON DOOR. REFER TO SPECIADITIONAL INFORMATION. SECURITY SYSTEM / ACCESS CONTROLSYSTE SCALE: NONE	HAVING REMOTE INPUTS BE WITHIN 5,000 FEET OF . BE FULLY SUPERVISED THE LOCK/UNLOCK AND E SAME NAME WITH THE NIC INPUT HAS BEEN HE DOOR TO NORMAL SE FOR THE PANIC CAN ACTIVATE WITH DRY DC VOLTS. EACH CIRCUIT ILTAGE STYLE INPUTS. FICATION 083513 FOR	
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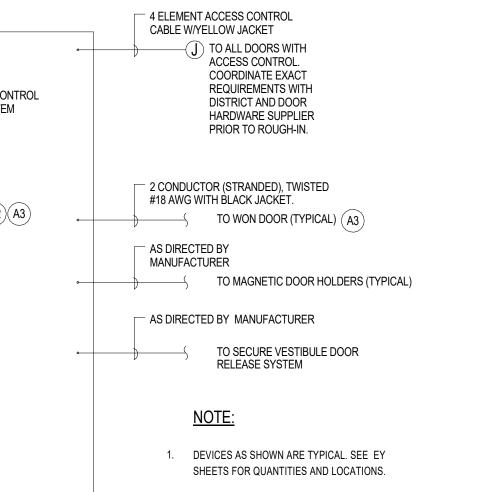


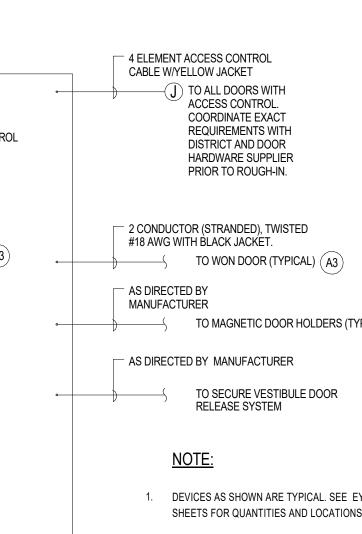


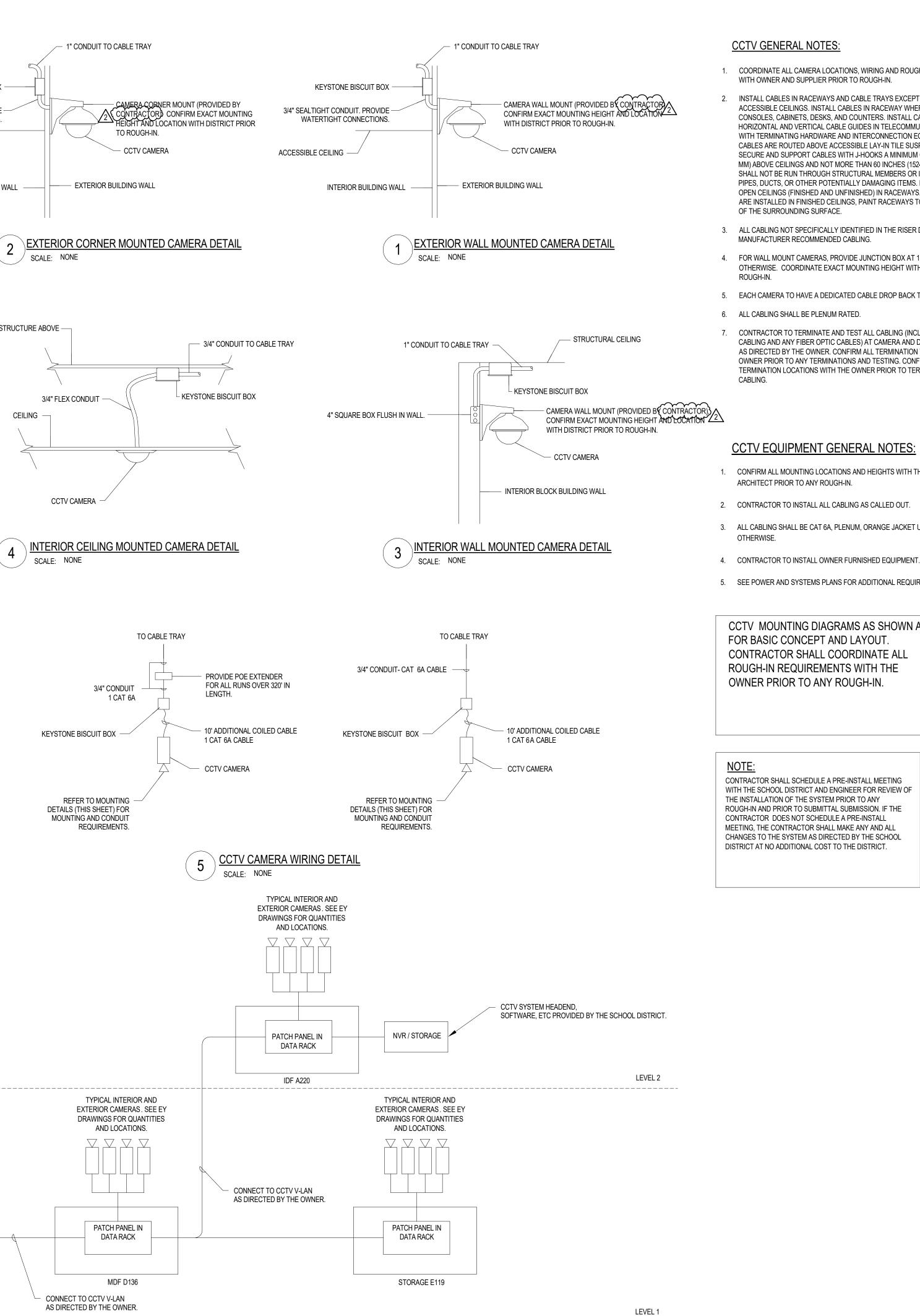
6 <u>CCTV SYSTEM RISER DIAGRAM</u> SCALE: NONE

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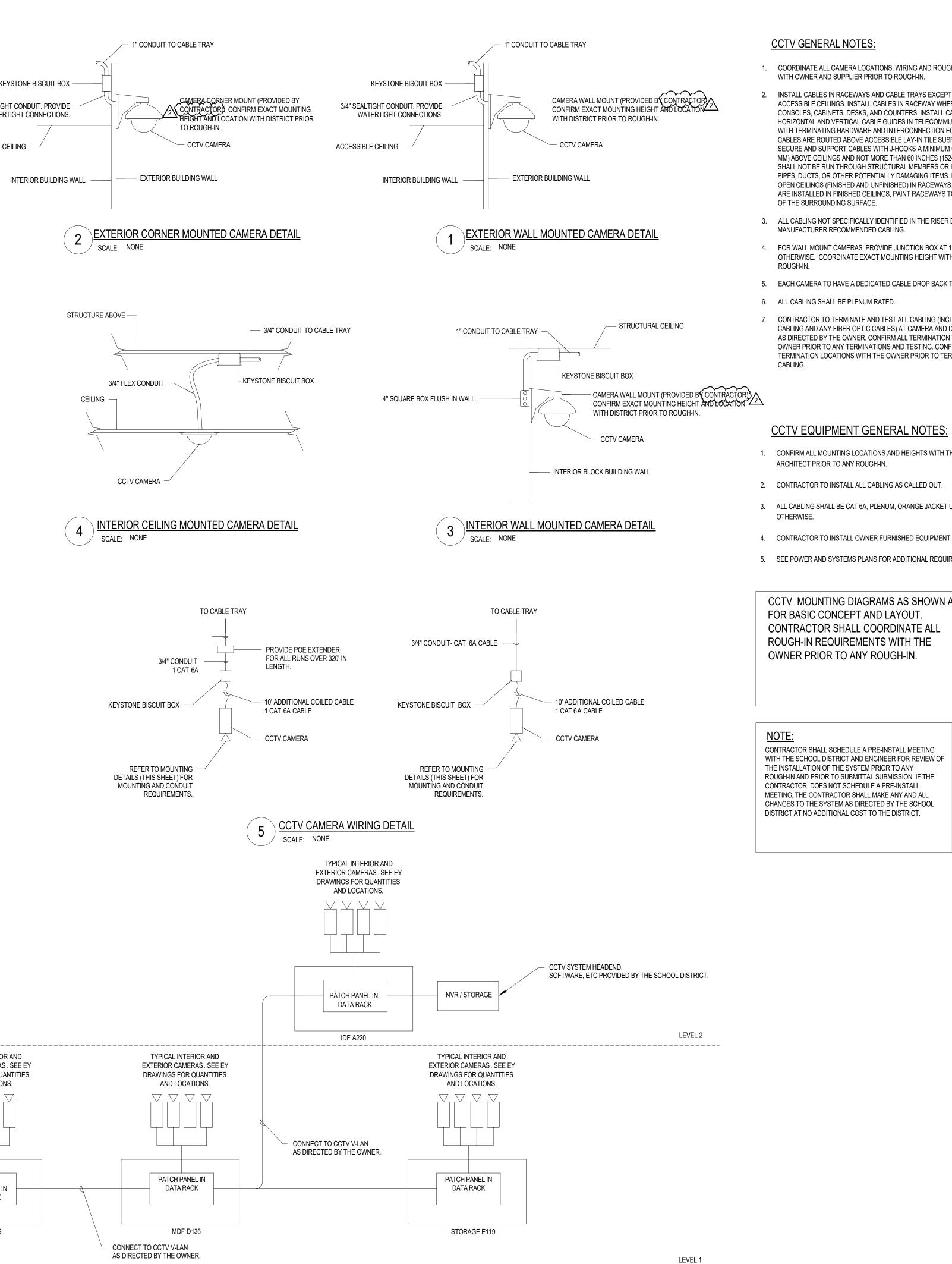


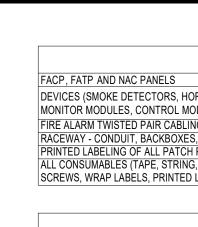






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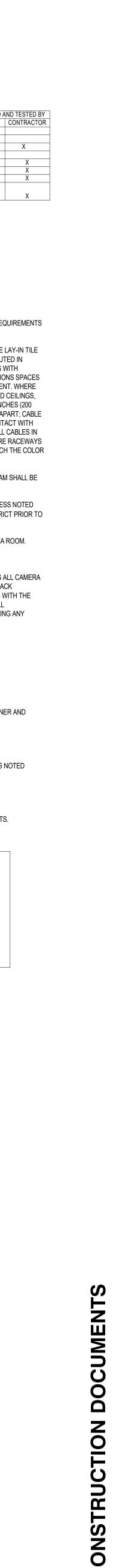




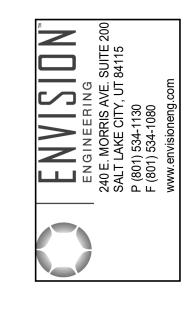


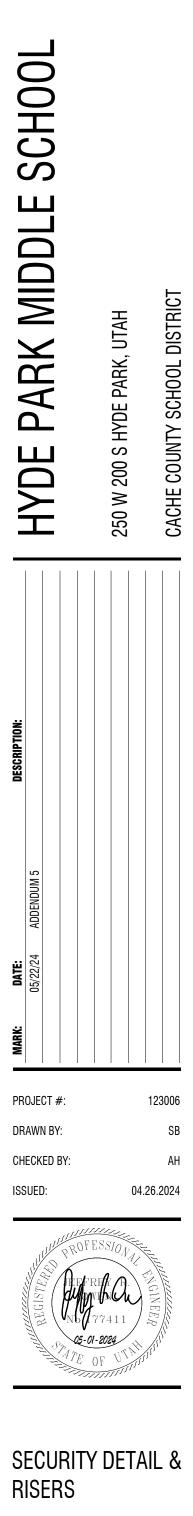
ITEM	FURNISHED /	AND TESTED BY	INSTALLED BY	
	CCSD	CONTRACTOR	CCSD	CONTRACTOR
FACP, FATP AND NAC PANELS		Х		Х
DEVICES (SMOKE DETECTORS, HORN/STROBES, CARBON MONOXIDE DETECTORS,				
MONITOR MODULES, CONTROL MODULES BASE CONNECTIONS, ETC.)		Х		Х
FIRE ALARM TWISTED PAIR CABLING		Х		Х
RACEWAY - CONDUIT, BACKBOXES, ETC.		Х		Х
PRINTED LABELING OF ALL PATCH PANELS, DEVICE FACEPLATES, WRAPS, ETC.		Х		Х
ALL CONSUMABLES (TAPE, STRING, TIE-WRAPS, VELCRO, ANCHORS, BOLTS, NUTS,				
SCREWS, WRAP LABELS, PRINTED LABELS, ETC.)		Х		Х
ACCESS CONTROLS SCOPE COORDINAT	-	SHED BY	INSTALLED A	AND TESTED BY
	CCSD	CONTRACTOR	CCSD	CONTRACTOR
SWITCHES	X		Х	
PANELS		Х		Х
CARD READER AND HARDWARE CABLING (4 ELEMENT ACCESS CONTROL CABLE, YELLOW JACKET)		Х		X
RACEWAY - CONDUIT, CABLE TRAY, BACKBOXES, ETC.		Х		Х
PRINTED LABELING OF ALL PATCH PANELS, DEVICE FACEPLATES, WRAPS, ETC.		Х		Х
ALL CONSUMABLES (TAPE, STRING, TIE-WRAPS, VELCRO, ANCHORS, BOLTS, NUTS,		v		v
SCREWS, WRAP LABELS, PRINTED LABELS, ETC.)		Х		Х

VIDEO SURVEILLANCE SCOPE COORDINA	TION TABLE			
ITEM	FURN	SHED BY	INSTALLED A	ANI
	CCSD	CONTRACTOR	CCSD	C
SWITCHES	Х		Х	
NVR (NETWORK VIDEO RECORDER) SERVER, MONITORS, ETC.	X		Х	
SECURITY CAMERAS AND MOUNTS		Х		
SECURITY CAMERA LICENSING 22	Х		Х	
ALL 4-PAIR HORIZONTAL CABLING ORANGE (CAT 6A CABLES)		Х		
RACEWAY - CONDUIT, CABLE TRAY, BACKBOXES, ETC.		Х		
PRINTED LABELING OF ALL PATCH PANELS, DEVICE FACEPLATES, WRAPS, ETC.		Х		
ALL CONSUMABLES (TAPE, STRING, TIE-WRAPS, VELCRO, ANCHORS, BOLTS, NUTS, SCREWS, WRAP LABELS, PRINTED LABELS, ETC.)		x		



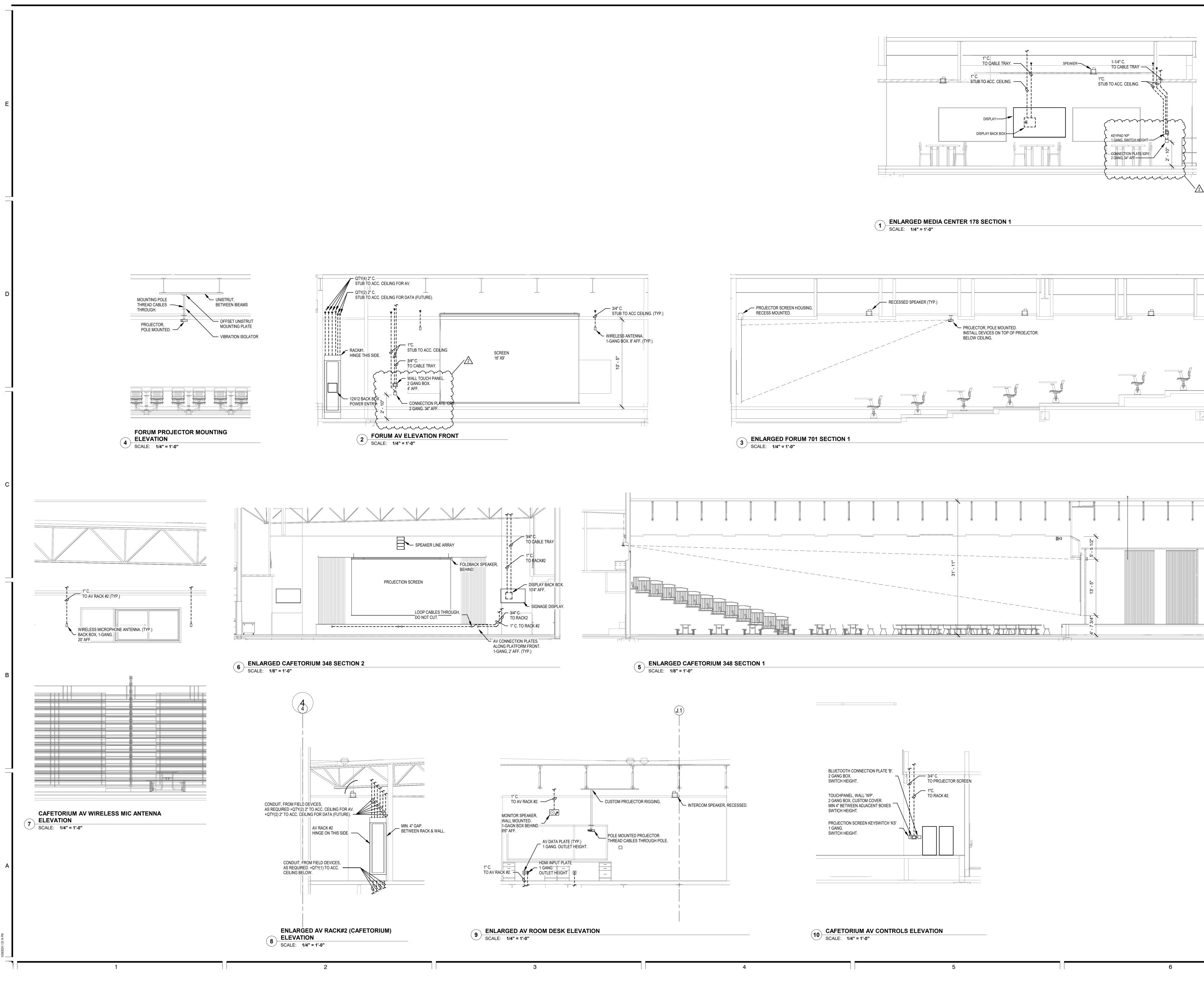




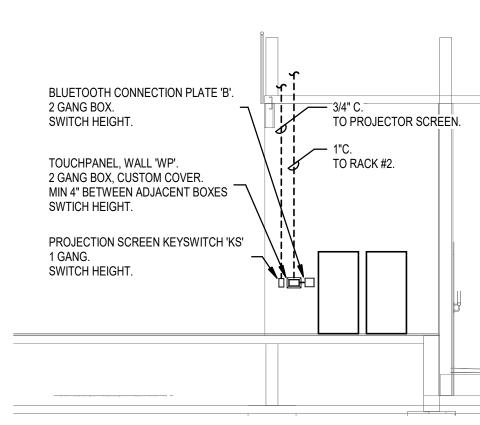


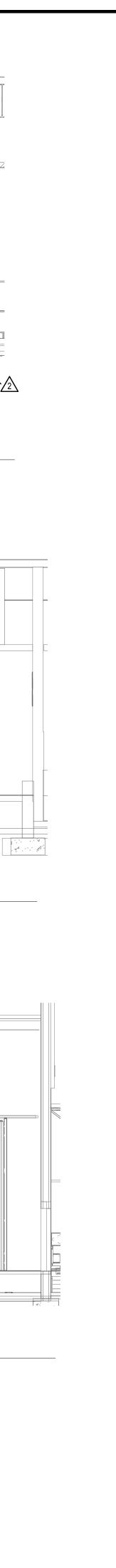
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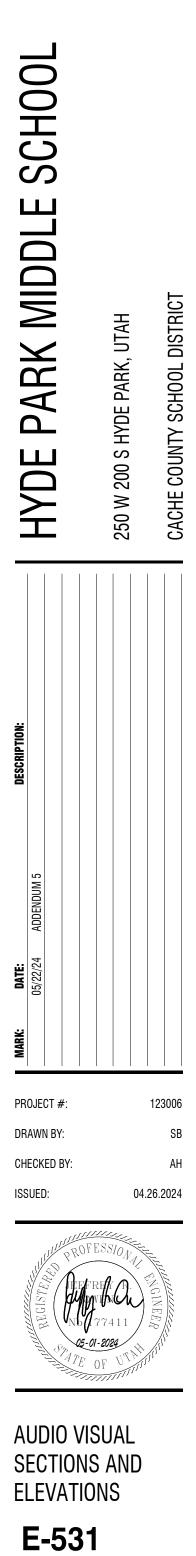


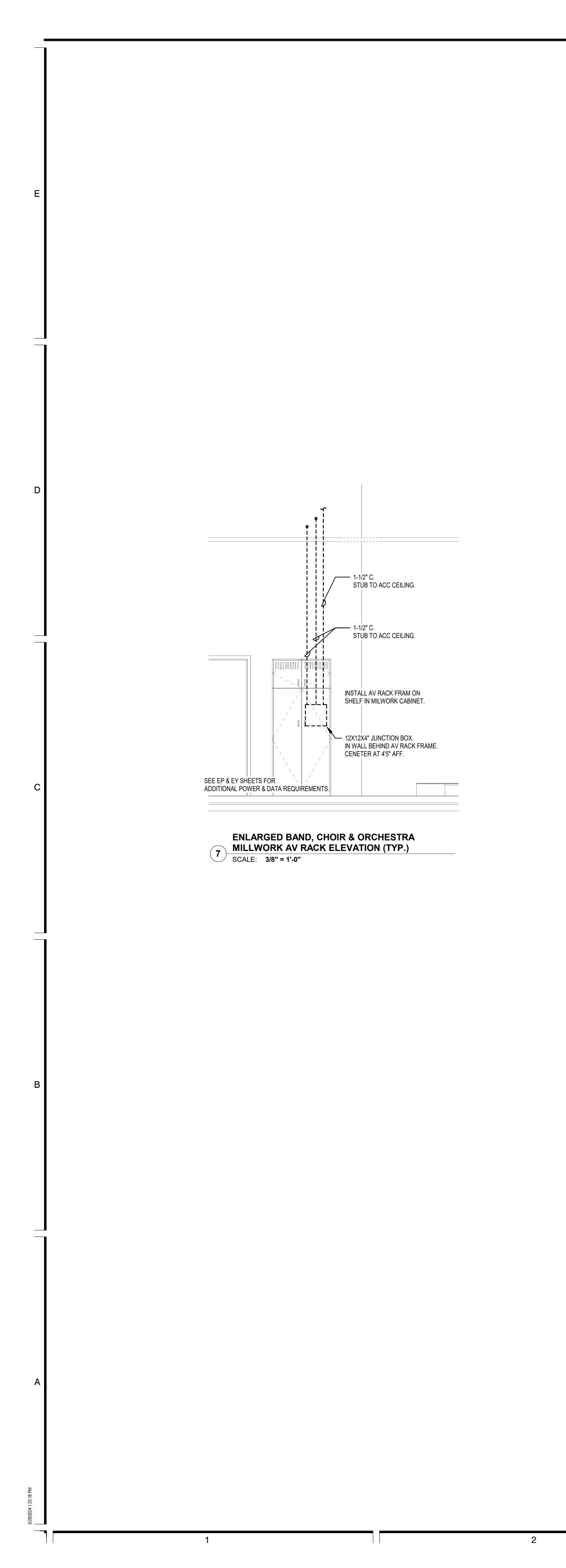




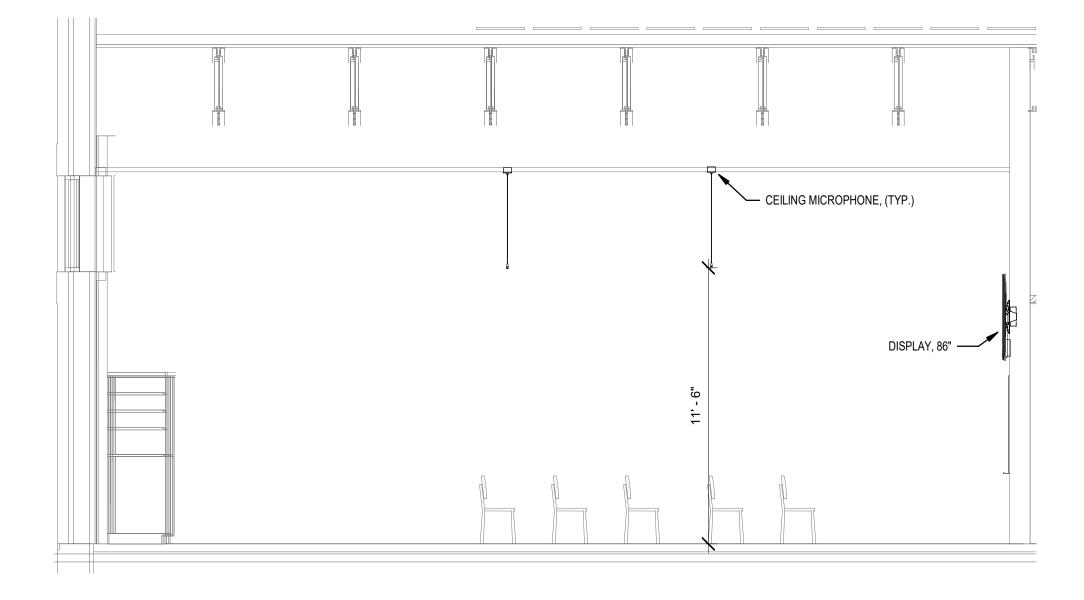
architects LOGAN UT 84321 FLAKE CITY UT 84103 design west 255 SOUTH 300 WEST 795 NORTH 400 WEST SALT SALT





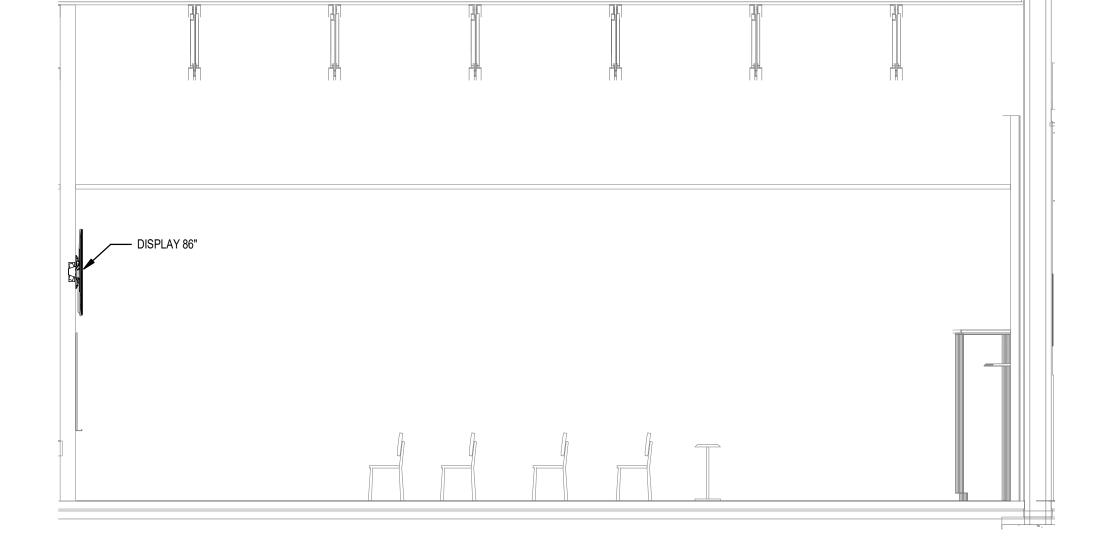


3 ENLARGED BAND SECTION 2 SCALE: 1/4" = 1'-0"

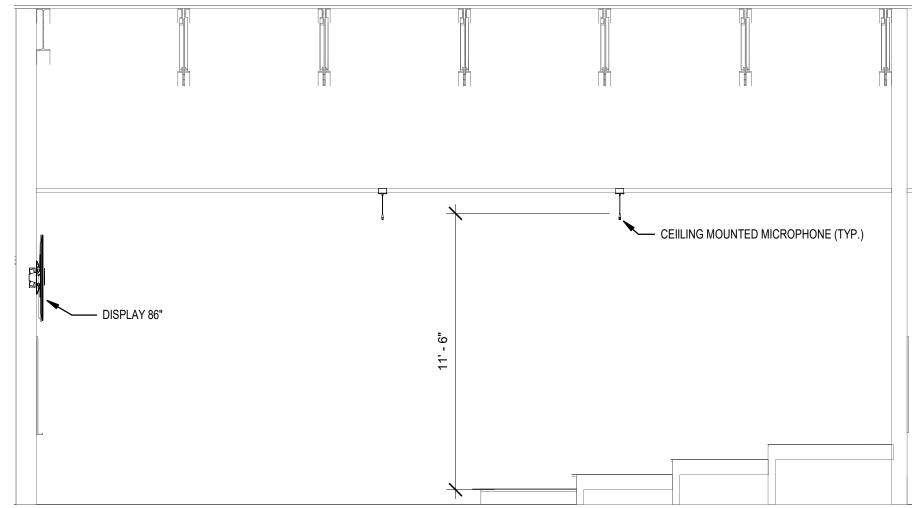


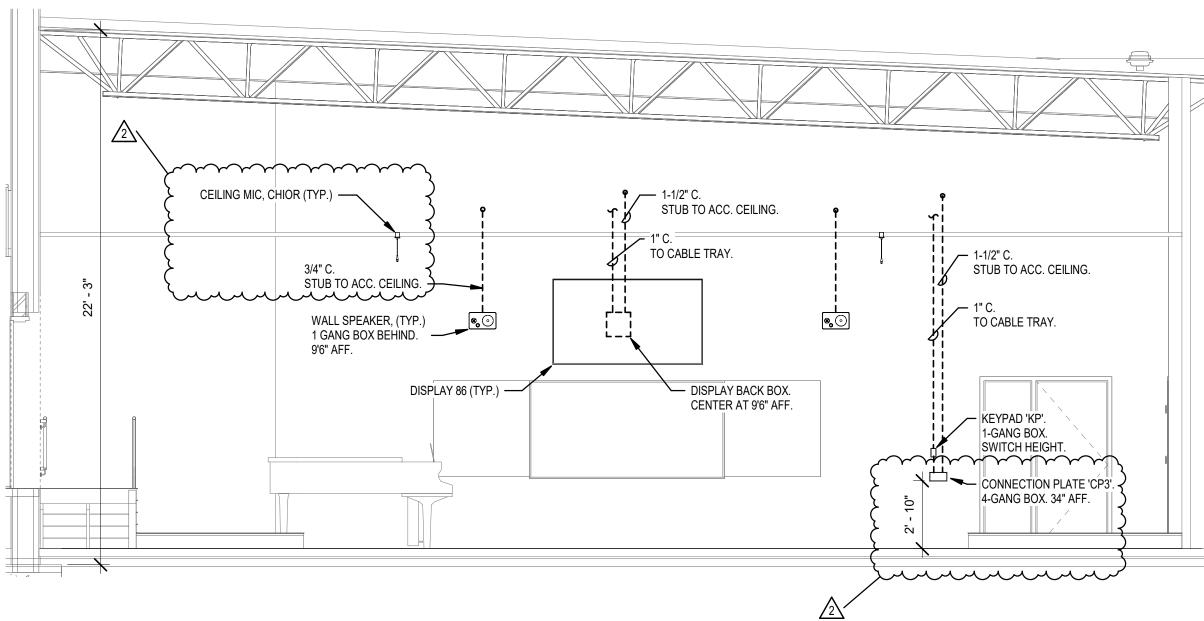
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ENLARGED ORCHESTRA SECTION 2 4 ENLARGED ORCH SCALE: 1/4" = 1'-0"

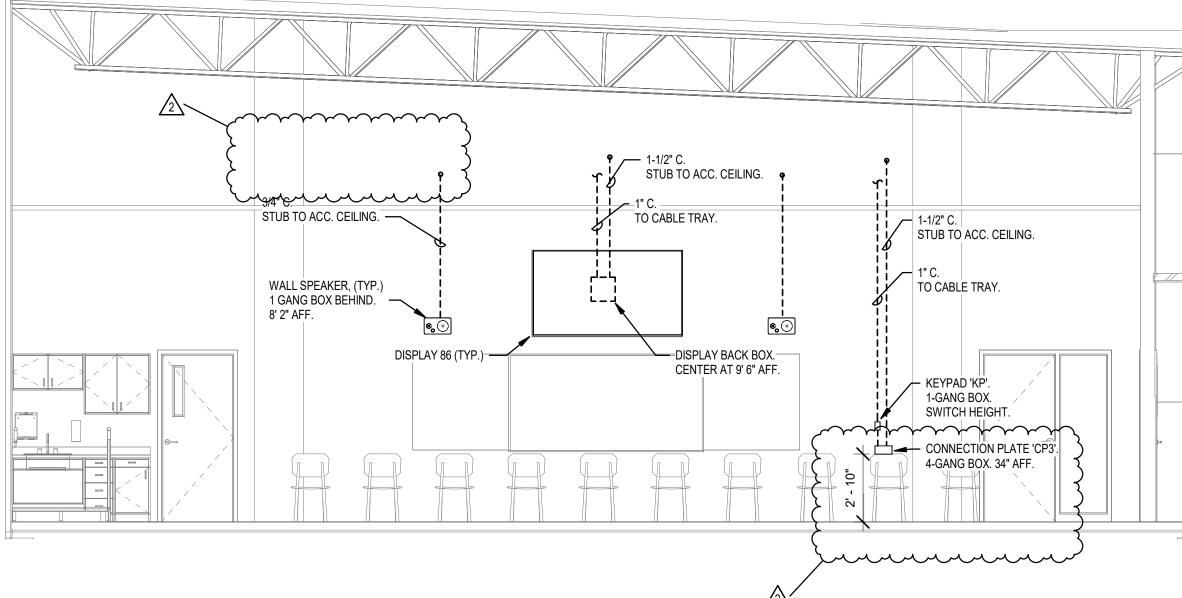


2 ENLARGED CHOIR/DRAMA SECTION 2 SCALE: 1/4" = 1'-0"



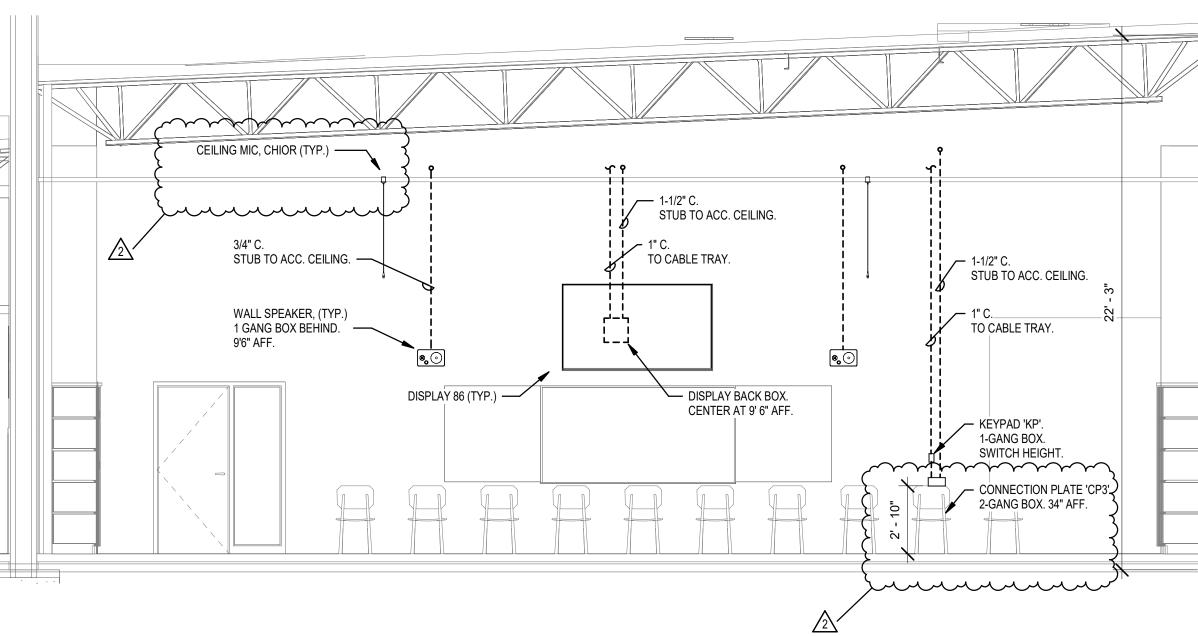


ENLARGED CHOIR/DRAMA SECTION 1 1 ENLARGED CHO SCALE: 1/4" = 1'-0"

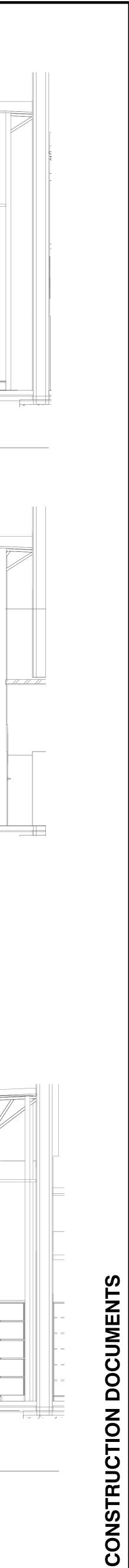


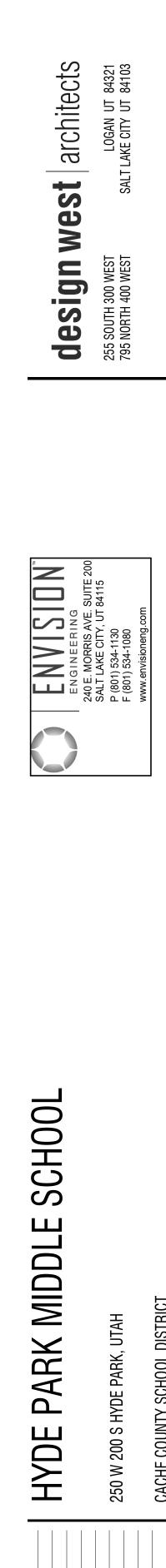
6 ENLARGED ORCHESTRA SECTION 1 SCALE: 1/4" = 1'-0"

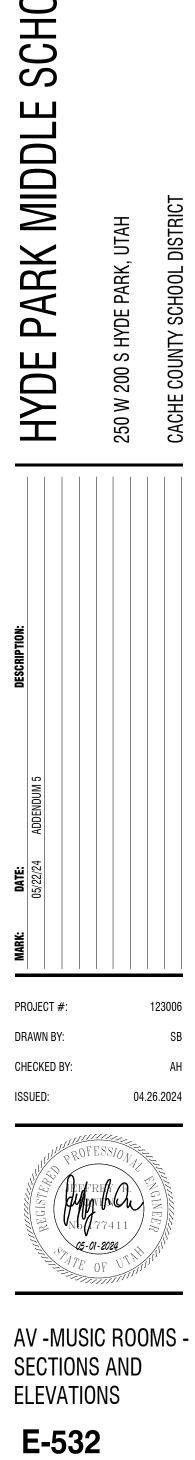
5 ENLARGED BAND SECTION 1 SCALE: 1/4" = 1'-0"

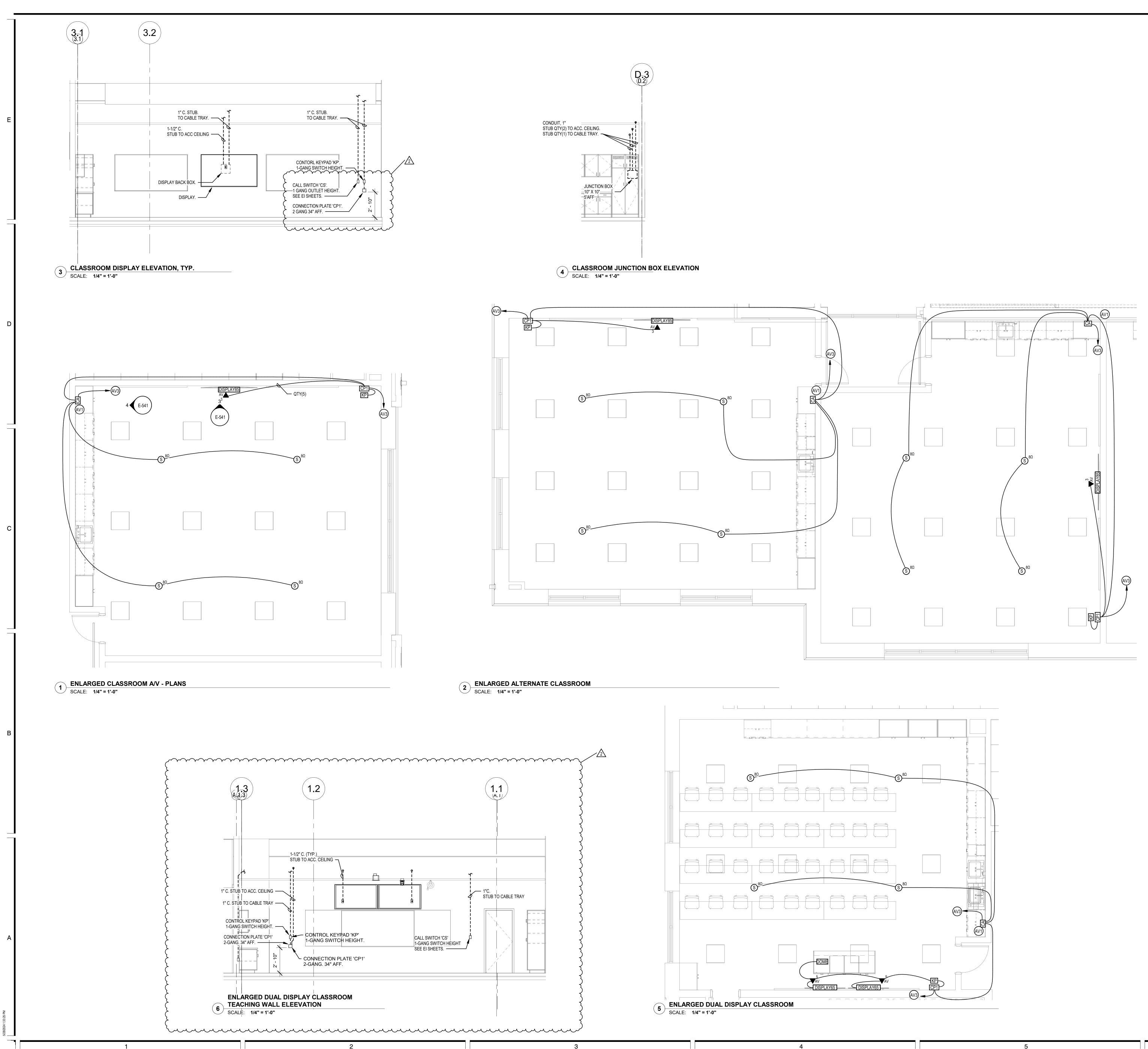


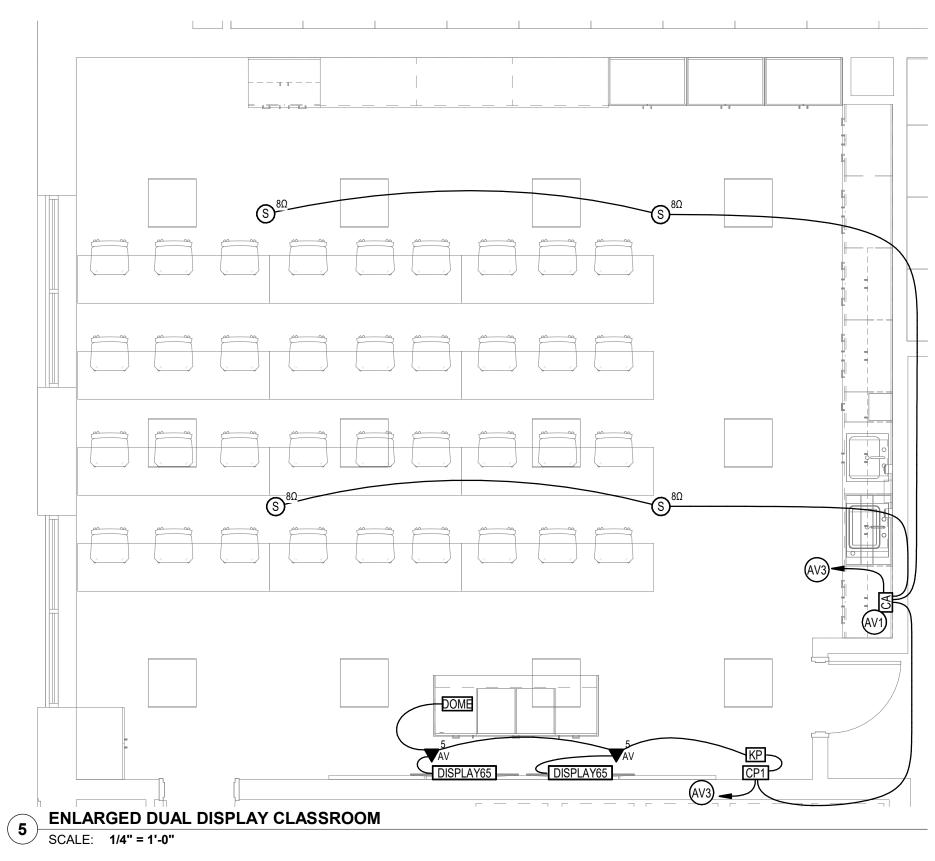
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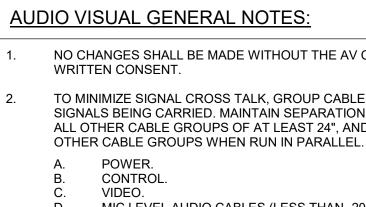










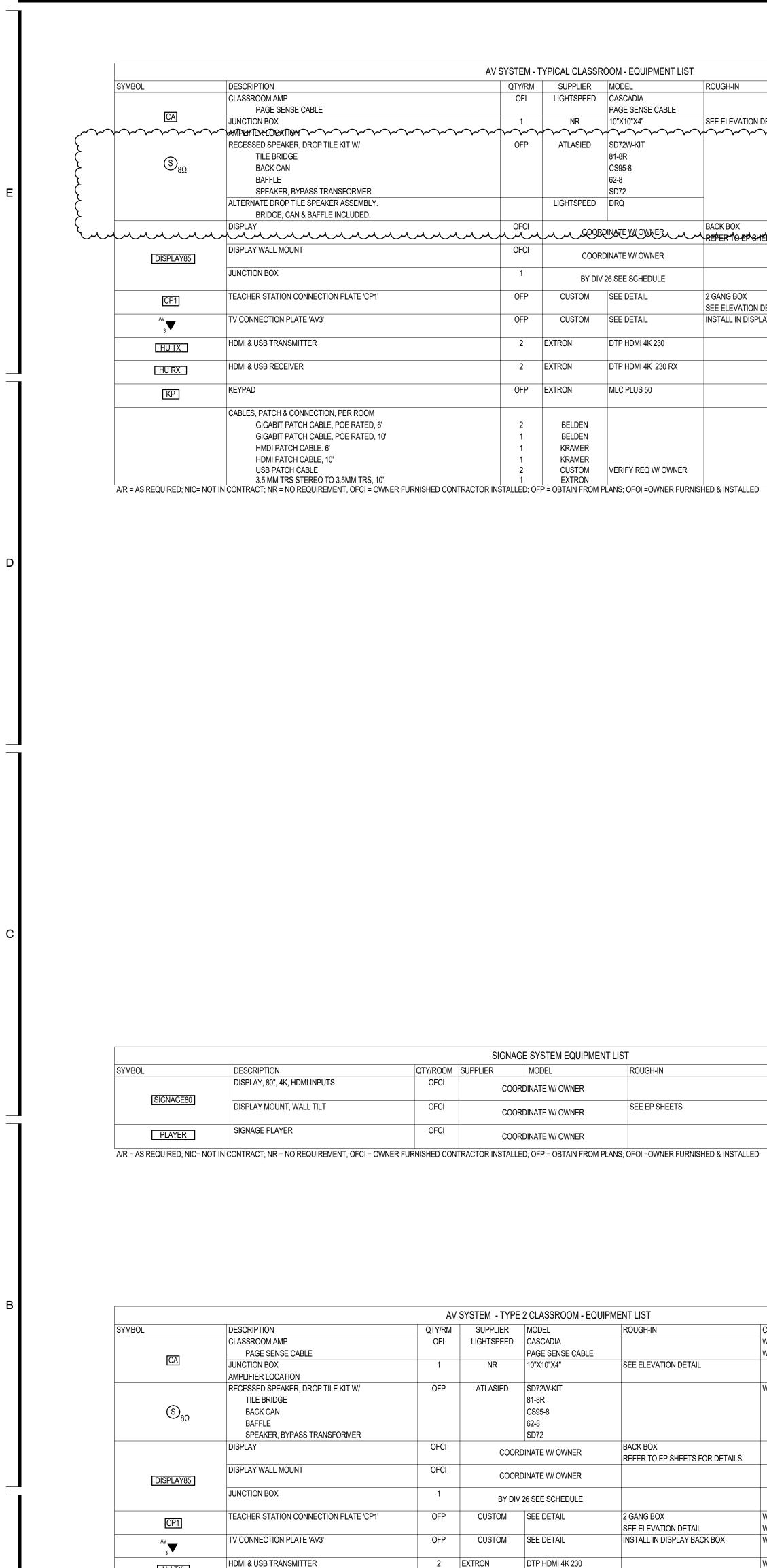


- MIC LEVEL AUDIO CABLES (LESS THAN -200 LINE LEVEL AUDIO CABLES (-200BM TO +200 SPEAKER LEVEL CABLES (+20dBM OR GRE DATA CABLES.
- PROVIDE #6 AWG THHN WIRE W/ GREEN INSULAT EQUIPMENT CABINET TO THE NEAREST MAIN BUI CONNECT GROUNDING WIRE TO BARE METAL ON
- COLORS OF ALL SOUND DEVICES THAT ARE EXPO AND OUTPUT PLATES, VOLUME CONTROLS, SWIT SPEAKER ENCLOSURES, SPEAKER MOUNTING HA
- BE REVIEWED AND APPROVED BY OWNER PRIOR CABLE ROUTES SHOWN ON DRAWINGS DO NOT A
- RACEWAYS. THE RACEWAYS SHALL BE DETERMIN LABEL ALL THE WIRELESS HANDHELD MICROPHC WITH NAMES OR NUMBERS FOR EASY IDENTIFICA
- REFER TO RISER DIAGRAMS AND EQUIPMENT LIS NUMBERS OF WIRES REQUIRED FOR EACH AV DE
- SETUP COMPRESSORS AND LIMITERS IN ALL OF T THE AMPLIFIERS AND SPEAKERS. ALSO, SETUP A DSPS, TO CONTROL THE ACCESS TO THEM. COOF DETERMINE APPROPRIATE PASSWORDS.
- MOCKUP A TYPICAL CLASSROOM AV SYSTEM FIR ALL THE FUNCTIONS OF THE SYSTEM AND PERFO COMPONENT BEFORE PURCHASING EVERYTHING CLASSROOMS.
- EQUALIZE ALL AUDIO SYSTEMS WITH DSP PRIOR 10. COMMISSIONING. AUDIO INPUT AND OUTPUT LEVELS SHALL BE BAL SHALL BE SET TO THE FOLLOWING PARAMETERS
- OCTAVE BANDS FROM 10HZ TO 2 KHZ, FLAT WITHIN PLUS OR MINUS 2 DBA, FROM Α.
- SLOPE DOWN ALONG AN APPROXIMATED В. SLOPE FROM 0 TO 71HZ AND 17KHZ AND U USE SEPARATE CHANNEL FOR EACH ASSISTIVE L IN THE FACILITY. PROGRAM ALL RECEIVERS, REG
- 'ALS' THEY ARE ASSOCIATED WITH SO THAT USER THE AVAILABLE CHANNELS.
- ALL CABLES IN PLENUM SPACES SHALL BE PLENU 13. PLENUM CABLE IS SPECIFIED, IN PLENUM SPACES SUBSTITUTE PLENUM CABLE.

KEYED NOTES

- INSTALL JUNCTION BOX, 10" X 10" IN WALL BEHIND AV1 UNLESS OTHERWISE NOTED, PROVIDE QTY. (3) 1"
- AV3 TO DATA RACK IN NEAREST MDF/IDF CLOSET.

/ CONSULTANT'S LES ACCORDING TO DN BETWEEN POWER AND ND 6" BETWEEN ALL L. GROUPS SHALL BE: 20dBM). 20dBM). 20dBM). 20dBM). 20dBM). 20dBM). 20dBM). 20dBM.	design west architects	255 SOUTH 300 WEST LOGAN UT 84321 795 NORTH 400 WEST SALT LAKE CITY UT 84103	
NONES AND BELT PACKS CATION. ISTS FOR THE TYPES AND DEVICE. THE DSPS TO PROTECT A PASSWORD ON THE ORDINATE W. OWNER TO IRST, TEST AND TRY OUT FORMANCE OF EACH AV NG FOR ALL THE R TO SYSTEM ALANCED. EQUALIZERS RS AS MEASURED IN 1/3 OM 71HZ TO 17KHZ. D 3 DBA PER OCTAVE O UP. LISTENING SYSTEM 'ALS' GARDLESS OF WHICH ERS' MAY SELECT ANY OF NUM RATED. WHEN NON- ES, INTEGRATOR SHALL	ENVISION ENGINEERING 240 E. MORRIS AVE. SUITE 200	SALT LAKE CITY, UT 84115 P (801) 534-1130 F (801) 534-1080	www.envisioneng.com
1" C. TO ACC. CEILING.	HYDE PARK MIDDLE SCHOOL	250 W 200 S HYDE PARK, UTAH	CACHE COUNTY SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS	INDERIOR INDERIORI IN	SSSIONAL TANK	123006 SB AH 26.2024



HDMI & USB TRANSMITTER 2 EXTRON HU TX HDMI & USB RECEIVER 2 EXTRON HU RX CABLES, PATCH & CONNECTION, PER ROOM GIGABIT PATCH CABLE, POE RATED, 6' BELDEN 2 GIGABIT PATCH CABLE, POE RATED, 10' BELDEN 1 KRAMER HMDI PATCH CABLE. 6' 1 HDMI PATCH CABLE, 10' KRAMER 1 USB PATCH CABLE 2

1

CUSTOM VERIFY REQ W/ OWNER 3.5 MM TRS STEREO TO 3.5MM TRS, 10' EXTRON 1 EXTRON MLC PLUS 50 KEYPAD & CONTROLLER 1-GANG BOX KP 1" C. TO ACCESSIBLE CEILING A/R = AS REQUIRED; NIC= NOT IN CONTRACT; NR = NO REQUIREMENT; OFCI = OWNER FURNISHED CONTRACTOR INSTALLED; OFP = OBTAIN FROM PLANS; OFOI = OWNER FURNISHED &

DTP HDMI 4K 230 RX

2

JGH-IN	CABLE	
	WEST PENN 454	
	WEST PENN 254346 - YELLOW	
ELEVATION DETAIL		
$\sim \sim $		7
	WEST PENN 25225B	ł
		7
		4
		4
		7
		4
		4
KBOX		7
ir bux Er 10-ep sheets for Details:		ىر
EK TO EP SHEETS FOR DETAILS.		
ANG BOX	WEST PENN 254346	
ELEVATION DETAIL	WEST PENN 445	
TALL IN DISPLAY BACK BOX	WEST PENN 254346	

GENERAL SYSTEM NOTES:

1. CLASSROOMS HAVE 8 OHM SPEAKERS.

- 2. COORDINATE WITH OWNER TO DETERMINE WHICH HDBASET DATA DROP TO CONNECT HU TX & HU RX TO. RUN CABLES FOR ALL CONNECTIONS.
- 3. PROVIDE ETHERNET CONTROL OF DISPLAY TO PROVIDE ON/OFF, AND SOURCE SELECTION.

1. THIS RISER & EQUIPMENT LIST APPLY TO: 1.1. TYPICAL CLASSROOMS 1.2. SPECIAL EDUCATION CLASSROOMS

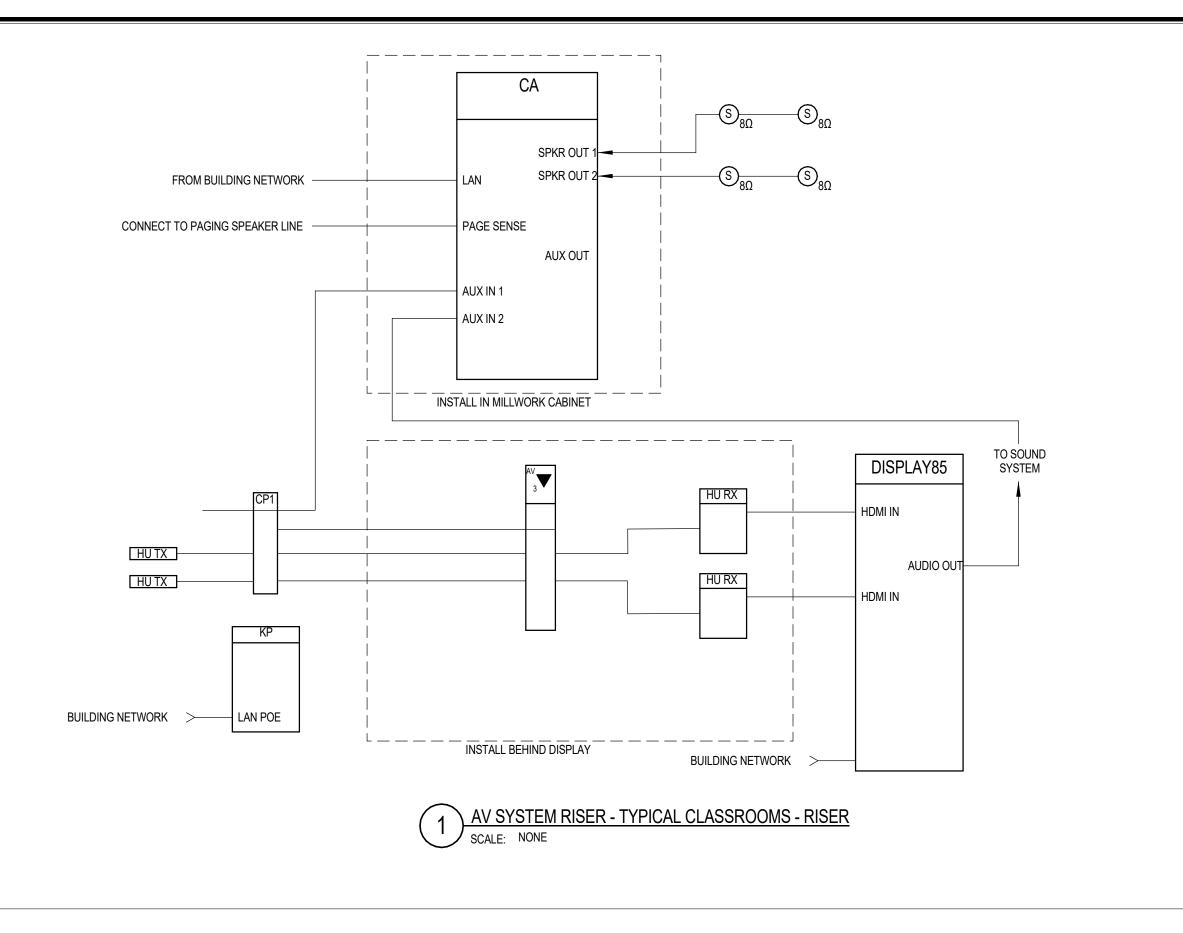
CABLE
EXTRON HDMI PRO SERIES
EXTRON HDMI PRO SERIES

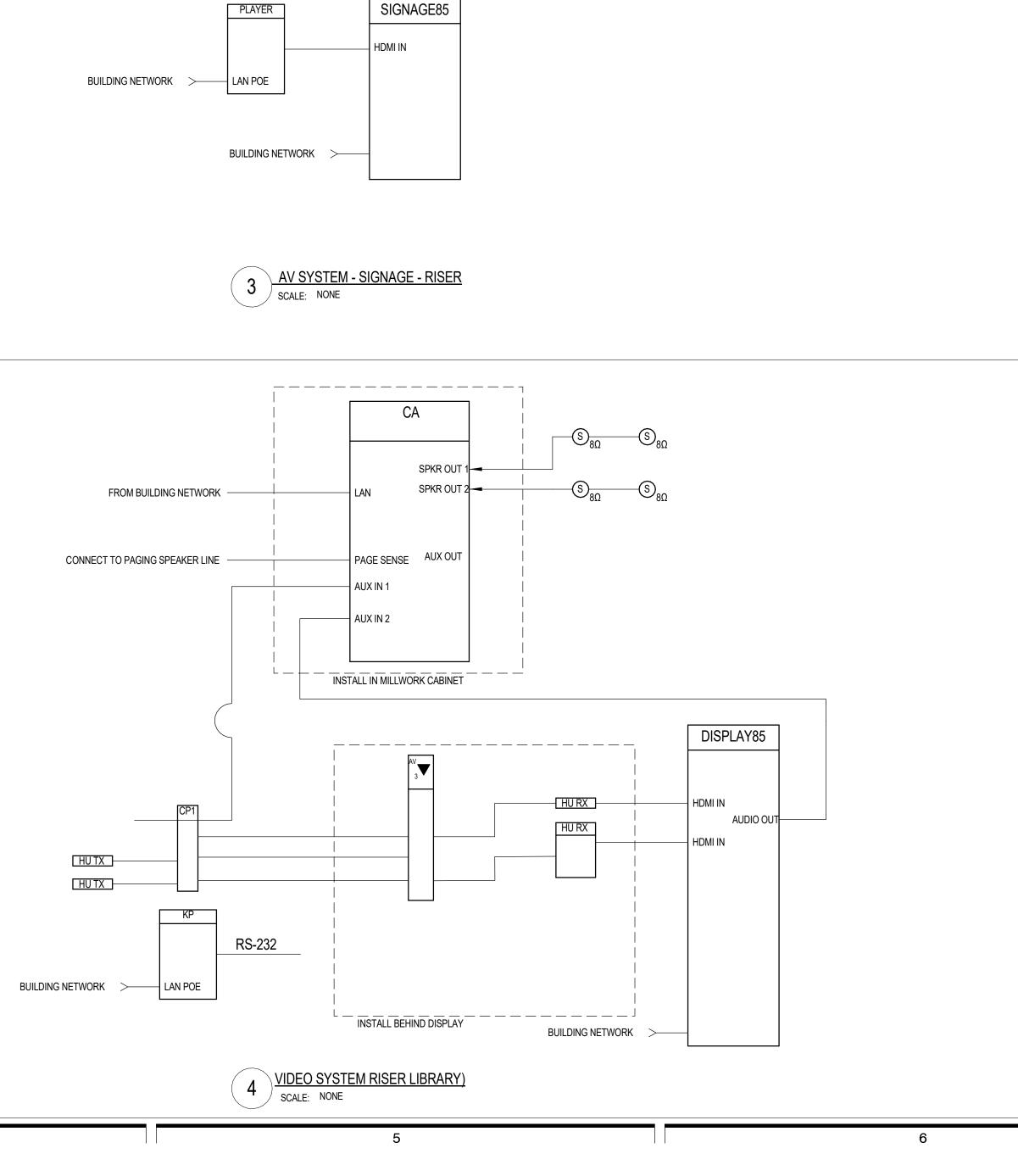
	CABLE
	WEST PENN 454
	WEST PENN 254346 - YELLOW
	WEST PENN 25225B
DETAILS.	
	WEST PENN 254346
	WEST PENN 445
BOX	WEST PENN 254346
	WEST PENN 254346
	WEST PENN 254346
NG SPACE	
0 & INSTALLED	

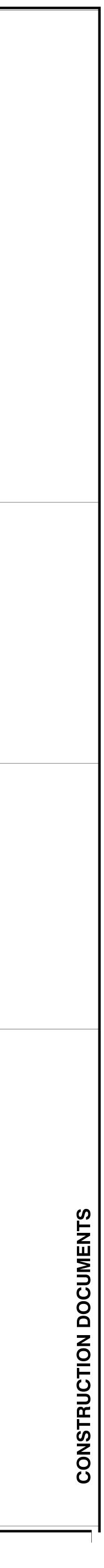
GENERAL SYSTEM NOTES:

1. CLASSROOMS HAVE 8 OHM SPEAKERS.

- 2. COORDINATE WITH OWNER TO DETERMINE WHICH HDBASET DATA DROP TO CONNECT HU TX & HU RX TO. RUN CABLES FOR ALL CONNECTIONS.
- 3. PROVIDE RS-232 CONTROL OF CEILING MOUNTED DOCUMENT CAMERA & ETHERNET CONTROL OF DISPLAY TO PROVIDE ON/OFF, AND SOURCE SELECTION.







architects 843 841 11 LI IGAN CITY AKE _____ 5 Ð N lesign west west 300 400 프 프 SS 0 255 795 ENGINEERING 240 E. MORRIS AVE. SUITE 200 SALT LAKE CITY, UT 84115 P (801) 534-1080 F (801) 534-1080 S \geq 250

CH00 S MIDD \checkmark \mathbf{C} 4 Δ НУD 123006 PROJECT #: CHECKED BY: AH 04.26.2024 ISSUED 05-01-2024 AV RISER & EQUIPMENT LIST

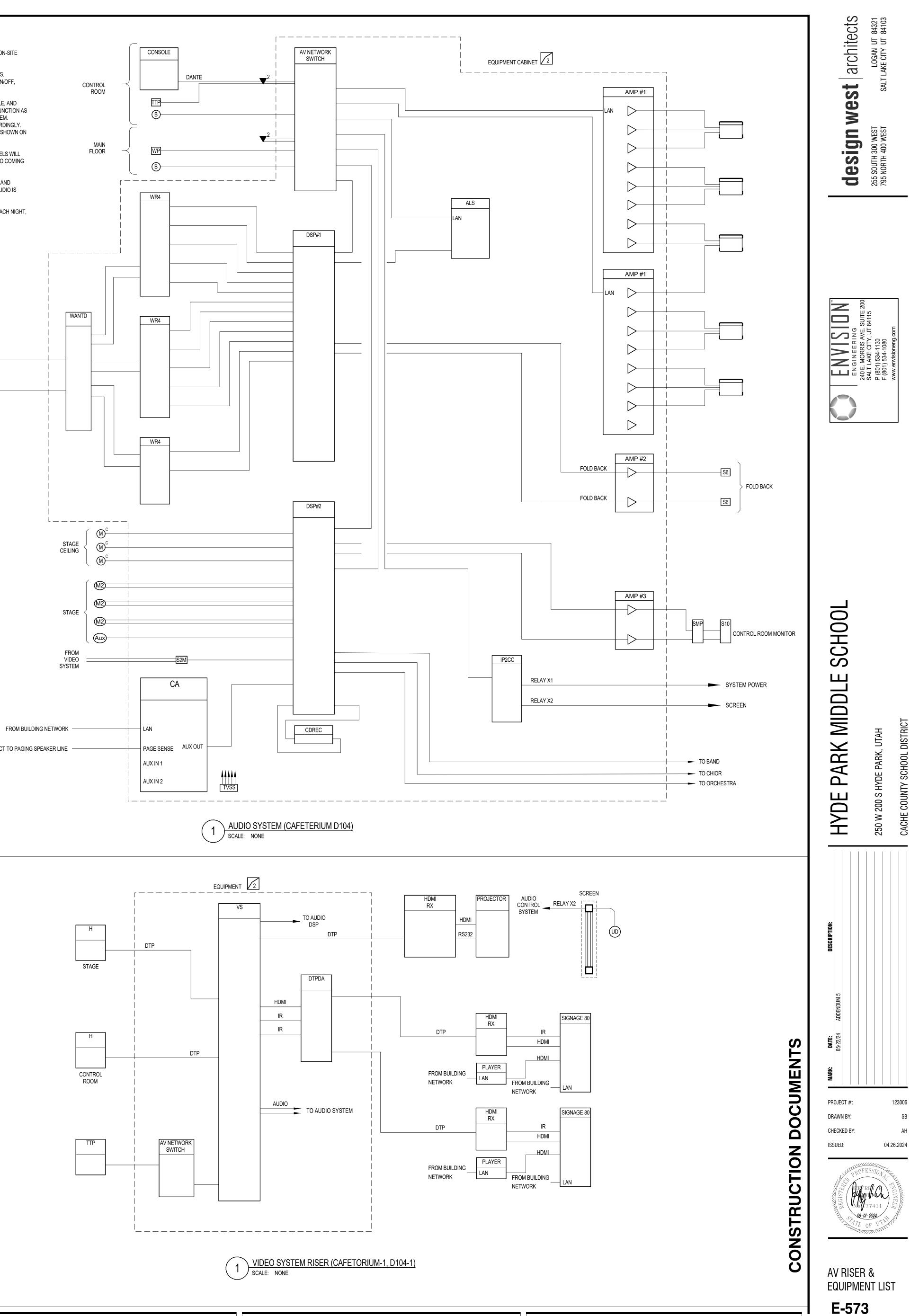
			AUDIO SYSTEM -	CAFETORIUM - EQUIP	PMENT LIST	
SYMBOL	DESCRIPTION		1 SUPPLIER	MODEL	ROUGH-IN	CABLE
	EQUIPMENT RACK, 46RU, 28" D. X 23.5" W.	1	MIDDLE ATLANTIC		12X12X6" BACK BOX IN WALL	
	FRONT DOOR	1		PFD-46		
2	VERTICAL POWER STRIP	1		PD-2420SC-NS	SEE DETAIL	
	RACK MOUNT DRAWER	1		UD3		
	VERTICAL CABLE LACING STRIP	4		LACE-44-OWP		
	HORIZONTAL LACING BAR	A/R		LBP-2A		
$ \ \ \ \ \ \ \ \ \ \ \ \ \ $		- AVR	-			
TVSS	POWER CONDITIONER	A/R	FURMAN	CN-2400S	INSTALL IN RACK	
	A MICROPHONE INPUTADUALA A A A A A A A A A A A A A A A A A A	A AR ~	A PBO-COA ~~~~~	WB10131 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	JEGANGUS" DEEP	WEST PENN 452 and and and and and and an
					3/4"CM THROUGHOUT	
					SEE ELEVATION	
[CDREC]	BLUETOOTH RECEIEVER	OFP	RDL	DD-BTN44	SEE DETAILS	WEST PENN 254346
	CD RECORDER	1	TASCAM	SS-CDR-200		
B						
	WIRELESS MICROPHONE SYSTEM				QTY(2) 1-GANG BOX FOR ANTENNA W/	GIGABIT PATCH CABLE - CONNECT TO AV NETWORK
WR4	RECEVIER, 4CH	3	SHURE	ULXD4QGV=-G50	3/4" C. TO RACK.	WEST PENN 454 INSTALLED MIC CABLE, W NEUTRIK NC3M
ANT),	1/2 WAVE ANTENNA	2	SHURE	UA844+ SWB	INSTALL TRANSMITTER IN RACK.	WEST PENN 810
	REMOTE ANTENNA MOUNTING KIT	2	SHURE	UA505		
WANTD	POWERED ANTENNA DISTRIBUTOR	1	SHURE	UA844+ SWB		
		2	SHURE	ULXD2/SM58	STORE EQUIPMENT IN RACK.	
	BODY PACK TRANSMITTER & MIC	10	SHURE	ULXD1/MX153		
	TABLE TOP MICROPHONE CHARGER TABLE TOP BATTERY CHARGER	0	SHURE	SBC220 SBC800		
	SPARE BATTERIES	8	SHURE	SB900B		
	REMOTE ANTENNA MOUNTING KIT	2	SHURE	UA505		
	DSP, AUDIO W/	A/R	Q-SYS	CORE 110F V2		WEST PENN 254246
	REQUIRED UCI. SCRIPTING. AND DANTE LICENSES					WEST PENN 454
	AV NETWORK SWTICH, 24X1G, POE+, 300W	1	NETGEAR AV LINE	GSM4230P		WEST PENN 254246
SWITCH						GIGBIT PATCH CABLES
	ASSISTIVE LISTENING SYSTEM, 2 CH, DANTE ENABLED		LISTEN			GIGBIT PATCH CABLES
ALS	SERVER	1		LW-150P-02-D		
	RECEIVERS	4		LW-200P-04		
[CONSOLE]	MIXING CONSOLE, 32CH	1	SOUND CRAFT	SI PERFORMER 3		GIGBIT PATCH CABLES
	DANTE CARD	1		DANTE CARD D		
AMP#1	AMP #1, 8 CH, 8K W	2	Q-SYS	CX-Q 8K8		WEST PENN 227
	AMP #2	1	CROWN	DCI 2/600		WEST PENN 227
AMP#2	Γινη π2	I.	onown	20012/000		
AMP#3	AMP #3	1	CROWN	DCI 2/300		WEST PENN 227
	FOLD BACK SPEAKER	2	COMMUNITY	I2-W8	1-GANG 3" DEEP BOX	WEST PENN 227
S6	SPEAKER FLYING HARDWARE	A/R	CUSTOM	CUSTOM	3/4" C. THROUGHOUT	
SMP	MONITOR SPEAKER CONNECTION PLATE	OFP	CUSTOM	SEE DETAIL	1 GANG BOX	WEST PENN 227
OWF	PANEL MOUNT 4 POLE SPEAKON	1	NEUTRIK	NL4	1" C THROUGHOUT	
S10	MONITOR SPEAKER	1	EV	SX100+WE		
510	MOUNTING HARDWARE	AR	CUSTOM	CUSTOM		
S2M	STEREO TO MON	A/R	EDCOR	S2M		
▼ ²	NETWORK JACK	2	CUSTOM	SINGLE GANG WITH	1-GANG 3" DEEP BOX	WEST PENN 254246
• 	CEILING MICROPHONE	OFP	AUDIO TECHNICA	2 RJ45 U853AW	3/4" C. THROUGHOUT DEEP 3", 1-GANG BACK BOX	WEST PENN 25291B
™c				0000,00	3/4" C. THROUGHOUT	
Aux	AUX INPUT	OFP	RDL		1-GANG 3" DEEP BOX 3/4" C. THROUGHOUT	WEST PENN 25291B
	LINE ARRAY SPEAKER	5	Q-SYS	WL3082	DEEP 1-GANG BOX	WEST PENN 25210
	CABLE CONNECTOR	A/R	NEUTRIK	NL8FC		
				450000.0		
		1	Q-SYS	AF3082-S		
	PULL BACK BAR CLASSROOM AMPLIFIER	1 OFCI	Q-SYS LIGHTSPEED	PB3082 CASCADIA	INSTALL IN RACK	WEST PENN 454
S6						

L	DESCRIPTION	QTY	SUPPLIER	MODEL	ROUGH-IN	CABLE
	SURFACE MOUNTED SCREEN 160"X284" 12" BLACK DROP	1	DA-LITE	CUSTOM 38701		
	16:9 PROFESSIONAL ELECTROL, MATT WHITE					
	BLACK SCREEN CASE, PROJECTOR					
	SCREEN SURFACE FACING AUDIENCE					
	THREE POSITION CONTROL SWITCH	1	DA-LITE	AS RECOMMENDED BY	1-GANG 3" DEEP	AS RECOMMENDED BY MANUFACTURER
UD				DA-LITE	3/4" CONDUIT THROUGHOUT	
G					SWITCH HEIGHT	
	LOW VOLTAGE CONTROLLER	1	DA-LITE	LVC-IV		
Н	HDMI INPUT, WALL	A/R	EXTRON	DTP T HWP 4K 331 D	1-GANG 3" DEEP	WEST PENN 254246F
					(2) 3/4"C. TO EQUIPMENT CABINET #2	
HDMI RX	HDMI RECEIVER, BEHIND DISPLAYS	A/R	EXTRON	DTP R HWP 4K 331 D	1-GANG, 3" DEEP	WEST PENN 254246F
		A/R			3/4" C. TO EQUIPMENT CABINET #2	WEST PENN 25591
VS	HDMI SWITCHER & CONTROL PROCESSOR	A/R	EXTRON	DTP CROSS POINT 82 4K		EXTRON HDMI PRO
10				IPCP MA70		
DTPDA	DTP DA, 4 PORTS	1	EXTRON	DTP HD DA4 4K 230		EXTRON HDMI PRO
DII DA						EXTRON XTP DTP 24P
TTP	TOUCH PANEL, 5", TABLE TOP	1	EXTRON	TLP PRO 525T		WEST PENN 254246F
AV NETWORK SWITCH	AV NETWORK SWTICH	1	NETGEAR	AV LINE GSM4212PX		WEST PENN 254246
	SHARED WITH SIGNAGE SYSTEM	2				
SIGNAGE80						
	PROJECTOR. 16:9, 16K LUMENS W/LENS	1	PANASONIC	PT-RQ18K		EXTRON HDMI PRO
	LENS	1	PANASONIC	ET-D3LET30		
ļ	PROJECTOR MOUNT, MICRO ADJUSTABLE	1	CHIEF	VCTU		
	INTEFACE PLATE	1	CHIEF	HCUW (INCLUDED)		
	CEILING MOUNTING	1	CUSTOM	CUSTOM		
	POLE	A/R	CUSTOM	CUSTOM		
	RIGGING	A/R	CUSTOM	CUSTOM		
	VIBRATION ISSOLATOR	1	MIDDLE ATLANTIC	CMA347		

2

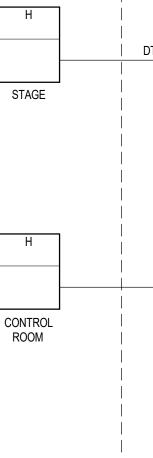
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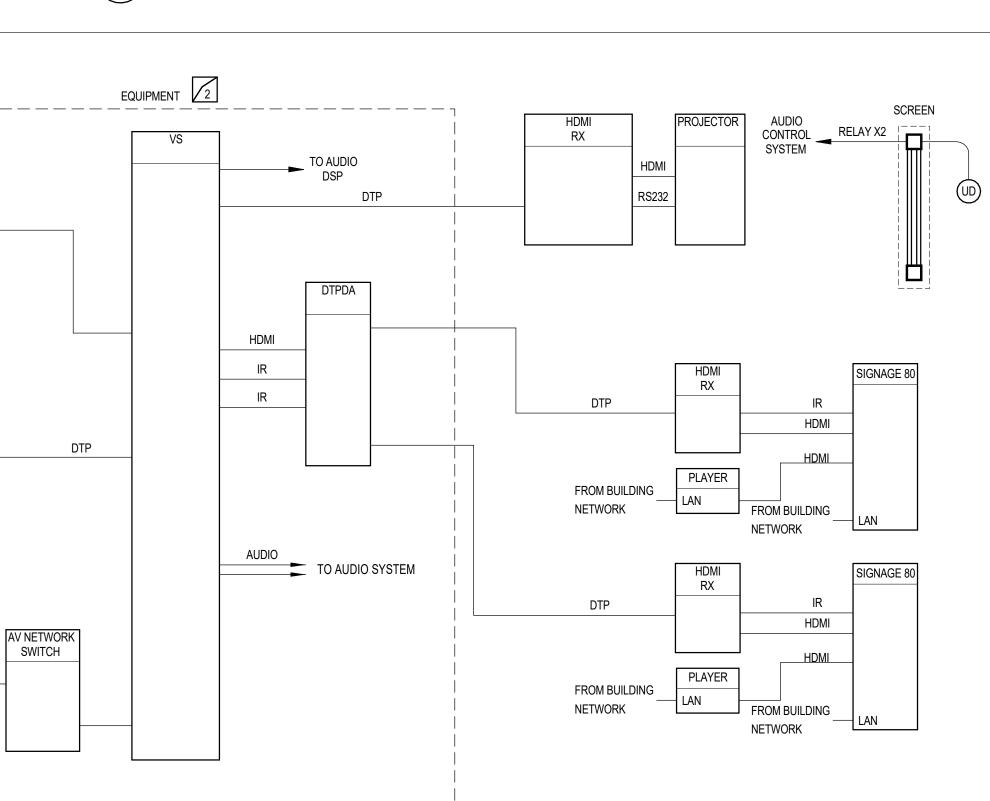
- 1. THE SPEAKER COVERAGE SETTINGS SHALL BE OPTIMIZED ON-SITE DURING THE INSTALLATION.
- 2. PROGRAM THE TOUCH PANEL TO CONTROL AUDIO VOLUMES. AUDIO/VIDEO SOURCE SELECTIONS, PROJECTOR POWER ON/OFF, PROJECTION SCREEN UP/DOWN.
- 3. PROGRAM THE DIGITAL PROCESSORS, THE MIXING CONSOLE, AND AUTOMANUAL SWITCH SO THAT THE AUDIO SYSTEM MAY FUNCTION AS EITHER AN AUTO MIXING SYSTEM OR MANUAL MIXING SYSTEM. PROGRAM LED'S ON THE SWITCH TO BE ON AND OFF ACCORDINGLY. ALSO PROVIDE CUSTOM LABELS ON THE SWITCH AS BEING SHOWN ON THE SWITCH DETAIL.
- 4. PROGRAM THE DSP SO THAT THE MAIN AUDIO OUTPUT LEVELS WILL BE AUTOMATICALLY LOWED THEN THERE IS A PAGING AUDIO COMING INTO THE SYSTEM.
- 5. CONFIGURE PLATFROM 'WP' TO PROVIDE SYSTEM ON/OFF, AND AUTO/MANUAL MODES. WHEN IN MANUAL MODE, SYSTEM AUDIO IS ROUTED THROUGH MIXING CONSOLE IN AV BOOTH.
- 6. CONFIGURE SYSTEM TO TURN SYSTEMS OFF AT 12:30 AM EACH NIGHT, AND RESET ALL SYSTEM ROUTINGS, LEVELS TO DEFAULT.

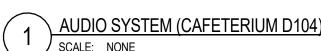


CONNECT TO PAGING SPEAKER LINE









			AV SYSTEM	1 - GYM - EQUIPMENT LIST		
OL	DESCRIPTION	QTY	SUPPLIER	MODEL	ROUGH-IN	CABLE
	EQUIPMENT RACK, 46RU, 28" D. X 23.5" W. FRONT DOOR	1	MIDDLE ATLANTIC	SR-46-28 PFD-46	12X12X6" BACK BOX IN WALL	
	VERTICAL POWER STRIP	1		PD-2420SC-NS	SEE DETAIL	
$\overline{3}$	RACK MOUNT DRAWER	1		UD3		
	VERTICAL CABLE LACING STRIP	4		LACE-44-OWP		
	HORIZONTAL LACING BAR	A/R		LBP-2A		
	BLANK PANEL	A/R		NR		
	WIRELESS MICROPHONE SYSTEM				QTY(2) 1-GAGN BOX FOR ANTENNA W/	GIGABIT PATCH CABLE - CONNECT TO AV NETWORK
	RECEVIER. 4CH	1	SHURE	ULXD4QGV=-G50	3/4" C. TO RACK.	WEST PENN 225 INSTALLED MIC CABLE, W NEUTRIK NC3MXX-B
WR4	1/2 WAVE ANTENNA	2	INCLUDED		INSTALL TRANSMITTER IN RACK.	WEST PENN 810
	HANDHELD MIC	2	SHURE	ULXD2/SM58	STORE EQUIPMENT IN RACK.	
	BODY PACK TRANSMITTER	2	SHURE	ULXD1/MX153		
	BATTERY CHARGING STATION	2	SHURE	SBC200		
	SPARE BATTERIES	4	SHURE	SB900B		
	SHELF FOR CHAGING STATION, (3RU)	1	NR	NR		
	REMOTE ANTENNA MOUNTING KIT	2	SHURE	UA505		
	1/8" THICK PLEXI-GLASS ANTENNA CONVER	2	AMERICAN TIME		I RICAN-TIME.COM/GET-QUOTE-GUARD-BUILD	FR/
		-	OR EQUAL			
	DIGITAL SIGNAL PROCESSOR. W/	1	Q-SYS	CORE 110F V2		WEST PENN 25225
	UCI, SCRIPTING AND DANTE LICENSES	A/R	Q-010			WEST PENN 23225 WEST PENN454
DSP	AUDIO IO EXPANSION	A/R		QIO-ML4I, QIO-LO4, QIO-ML2X2		WEST PENN454 WEST PENN 254346
	GPIO EXPANSION GPIO EXPANSION	A/R		QIO-ML41, QIO-LO4, QIO-ML272 QIO-GP8X8		
\sim	RELAY CONTOL MODULE		GLOBAL CACHE		$\rightarrow \rightarrow $	
	POWER CONDITIONER & SEQUENCER	A/R	FURMAN	CN-2400S	INSTALL IN RACK	
TVSS	FUWER CONDITIONER & SEQUENCER			011-24000		
AMP#1	AMPLIKER, YOLYO'SHAMEL	m	MCROWH	DOHO400	MISTALL HIRACK	WESPPENN 25225
	PORTABLE EQUIPMENT				PROVIDE TO OWNER, AND STORE IN RACH	
	MIC STAND	2	ATLAS IED	MS-203		
	MIC STAND BOOM	2	ATLAS IED	PB21XEB		
	HANDHELD MIC, WIRED	2	SHURE	BETA 58A	DRAWER	
	MICROPHONE CORD, 25'	2	AUDIO TECHNICA			
	MIC CORD 50'	2	AUDIO TECHNICA	AT8314-50		
	WALL PLATE, TOUCH SCREEN CONTROLLER	OFP			SEE DETAIL	WEST PENN 254345
WP	WALL PLATE	1/PLATE	Q-SYS	TSC-70-G3		
	BACK BOX, AND COVER	1/PLATE	FSR	WB-PSTSC-70-G3		
	BLUETOOTH CONNECTION PLATE	OFP			SEE DETAIL	WEST PENN 254345
B	BLUETOOTH, FRMT A		RDL	D-BT1A		
U	FRMT A RECEIVER, IN RACK	1	RDL	TX-TPR2A		
	1-GANG WIRE COVER	1	NR	NR		
0	SPEAKER, MAIN FLOOR	OFP	COMMUNITY	R-35COAX	1-GANG BOX	WEST PENN 25225B
\bigcirc	SURFACED, WHITE, 200W EACH	OFP	CUSTOM	FLYING HARDWARE	3/4" C. THROUGHOUT	
	SPEAKER, BLEACHERS, WHITE 200 W. 70V	OFP	COMMUNITY	IC6-2082T26	CUSTOM MOUNTING	WEST PENN 25225B
	SAFETY CABLE EYEBOLT MOUNT		CUSTOM	CUSTOM	IP81152	
- PS	HORIZONTAL MOUNTING BRACKET			IUB2082W		
	SPEAKER, SUB	OFP	COMMUNITY	IS8-115W		WEST PENN 25227B
SUB						
AMP#2	AMPLIFER, 70V, FOR SUB	1	BIAMP	ALC-404D	INSTALL IN RACK	
		A		LW 100D 02		
ALS	ASSISTIVE LISTNING SYSTEM, 2 CH	1	LISTEN	LW-100P-02		
	RECEIVERS	4	FDOOD	LWR-1020		
S2M	STEREO TO MONO	A/R	EDCOR	S2M		
		A				
AV SWITCH	AV SWTICH, 30 PORT, POE+, 300w	1		GSM4230P (OR EQUAL)		GIGABIT PATCH CABLES, LEN AS REQUIRED
	MICROPHONE & AUX INPUT PLATE	OFP	RDL	D-J3M	1 GANG BOX	WEST PENN 454
					3/4" C THROUGHOUT	
	MICROPHONE & DANTE BLEACHER CONNECTION PLATE	OFP	SEE DETAIL			CUSTOM XLR PATCH CABLE
	PANELMOUNT ETHERCON COUPLER					LAIRD ETHERCON PATCH CABLE CAT6-EC-XXX, DENOTES LENGTH
D MD	PANEL MOUNT, XLR JACK					
	XLR PATCH CABLE	1/PLATE	CUSTOM			CANARE L-2TS
	LOCKING 3 PIN XLR MALE		NEUTRIK	NC3MXX-EMC		
	LOCKING 3 PIN XLR FEMALE		NEUTRIK	NC3FXX-EMC		
	MICROPHONE & DANTE REAR BLEACHER PLATE	OFP	SEE DETAIL			CUSTOM XLR PATCH CABLE
	PANELMOUNT ETHERCON JACK					
	PANEL MOUNT, XLR COUPLER, MAKE TO FEMALE					
	IP CONTACT CLOSURE MODULE	OFP	GLOBAL CACHE	ITACH IP2CC		GIGBIT PATCH CABLE, POE RATED
IP2CC						
CA	ZONE MODULE	1	LIGHTSPEED	CASCADIA		
I CA I		1	1		1	

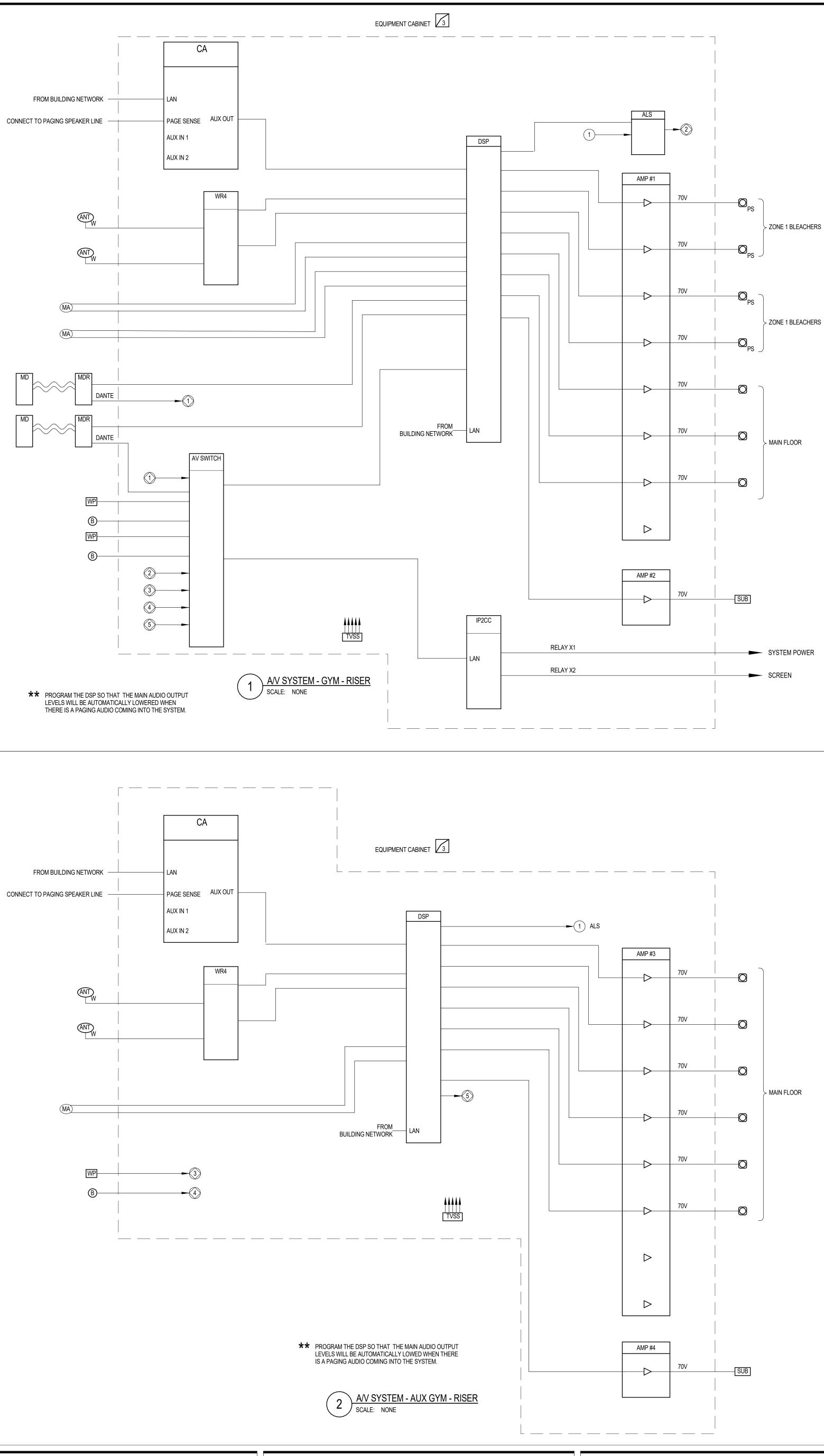
			AV SYSTEM	- GYM SCREEN - EQUIF	PMENT LIST		
SYMBOL	DESCRIPTION	QTY/ROOM	SUPPLIER	MODEL	ROUGH-IN	CABLE	
	PROJECTOR SCREEN, WALL MOUNT, MOTORIZED, 110V	1	DRAPER	CL510			
	216" X 121-1/2", W/						
	LOW VOLTAGE CONTROL INTERFACE	1		LVC-IV			
	ROCKER AND KEY SWITCH	1		KS1/SS-1R			

SYMBOL	DESCRIPTION	QTY	SUPPLIER	MODEL	RC
3	EQUIPMENT RACK, 46RU, 28" D. X 23.5" W.			SPECIFIED AS PART OF GYN	
	WIRELESS MICROPHONE SYSTEM				QT
	RECEVIER, 4CH	1	SHURE	ULXD4QGV=-G50	3/4
WR4	1/2 WAVE ANTENNA	2	INCLUDED		INS
VVIX4	HANDHELD MIC	1	SHURE	ULXD2/SM58	ST
	BODY PACK TRANSMITTER	1	SHURE	ULXD1/MX153	
	BATTERY CHARGING STATION	1	SHURE	SBC200	
	SPARE BATTERIES	2	SHURE	SB900B	
	SHELF FOR CHAGING STATION, (3RU)	1	NR	NR	
	REMOTE ANTENNA MOUNTING KIT	2	SHURE	UA505	
	1/8" THICK PLEXI-GLASS ANTENNA CONVER	2	AMERICAN TIME OR EQUAL	CUSTOM - HTTPS://WWW.AME	RICA
	DIGITAL SIGNAL PROCESSOR, W/	1	Q-SYS	CORE 110F V2	
DSP	UCI, SCRIPTING AND DANTE LICENSES	A/R			
	AUDIO IO EXPANSION	A/R		QIO-ML4I, QIO-LO4, QIO-ML2X2	2
	GPIO EXPANSION	A/R	QIO-GP8X8	QIO-GP8X8	
	RELAY CONTOL MODULE	A/R	GLOBAL CACHE	ITACH IP2CC	
TVSS	POWER CONDITIONER & SEQUENCER	1	FURMAN	CN-1800S	INS
AMP#3	AMPLIFER, 70V 8 CHANEL	1	CROWN	DCI\2400	INS
	PORTABLE EQUIPMENT				PR
	MIC STAND	2	ATLAS IED	MS-203	
	MIC STAND BOOM	2	ATLAS IED	PB21XEB	
	HANDHELD MIC, WIRED	2	SHURE	BETA 58A	DR
	MICROPHONE CORD, 25'	2	AUDIO TECHNICA	AT8314-25	
	MIC CORD 50'	2	AUDIO TECHNICA	AT8314-50	
	WALL PLATE, TOUCH SCREEN CONTROLLER	OFP			SE
WP	WALL PLATE	1/PLATE	Q-SYS	TSC-70-G3	
	BACK BOX, AND COVER	1/PLATE	FSR	WB-PSTSC-70-G3	
	BLUETOOTH CONNECTION PLATE	OFP		WB-10100-70-00	SE
	BLUETOOTH, FRMT A		RDL	D-BT1A	
B	FRMT A RECEIVER, IN RACK	1	RDL	TX-TPR2A	
	1-GANG WIRE COVER	1	NR	NR	
	SPEAKER, MAIN FLOOR	OFP	COMMUNITY	R-35COAX	1-0
Ø	SURFACED, WHITE, 200W EACH	OFP	CUSTOM	FLYING HARDWARE	3/4
SUB	SPEAKER, SUB	OFP	COMMUNITY	IS8-115W	
AMP#4	AMPLIFER, 70V, FOR SUB	1	BIAMP	ALC-404D	INS
ALS	ASISTIVE LISTNING SYSTEM, 2 CH			SPECIFIED AS PART OF GYN	1000
	RECEIVERS				
S2M	STEREO TO MONO	A/R	EDCOR	S2M	
AV SWITCH	AV SWTICH, 30 PORT, POE+, 300w			SPECIFIED AS PART OF GYN	I SYS
ZONE MODULE	ZONE MODULE	OFCI	LIGHTSPEED	CASCADIA	

1

S; OFOI =	OWNER FURNISHED & INSTALLED	

IST		
	ROUGH-IN	CABLE
1 SYSTEM		
	QTY(2) 1-GANG BOX FOR ANTENNA W/ 3/4" C. TO RACK. INSTALL TRANSMITTER IN RACK. STORE EQUIPMENT IN RACK.	GIGABIT PATCH CABLE - CONNECT TO AV NETWORK WEST PENN 225 INSTALLED MIC CABLE, W NEUTRIK NC3MXX-B
R	CAN-TIME.COM/GET-QUOTE-GUARD-BUILDER/	
2		
	INSTALL IN RACK	
	INSTALL IN RACK	
	PROVIDE TO OWNER, AND STORE IN RACK	
	SEE DETAIL	WEST PENN 4246AF
	SEE DETAIL	WEST PENN 4246AF
	1-GANG BOX 3/4" C. THROUGHOUT	WEST PENN 25225B
	INSTALL IN RACK	
I SYSTEM		
1 :	SYSTEM	
15	; OFOI =OWNER FURNISHED & INSTALLED	



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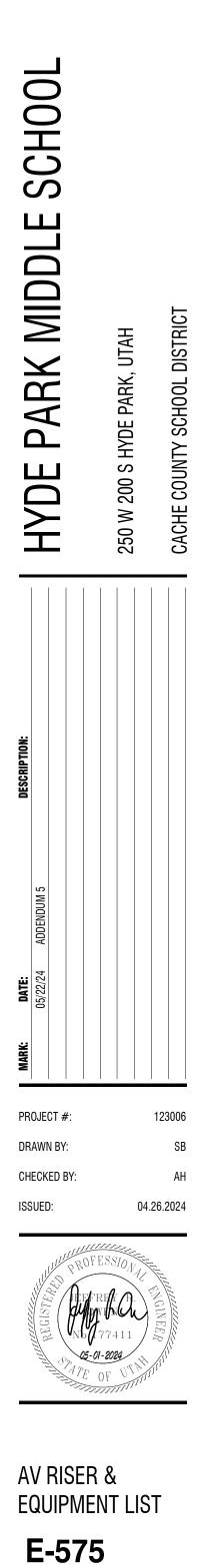
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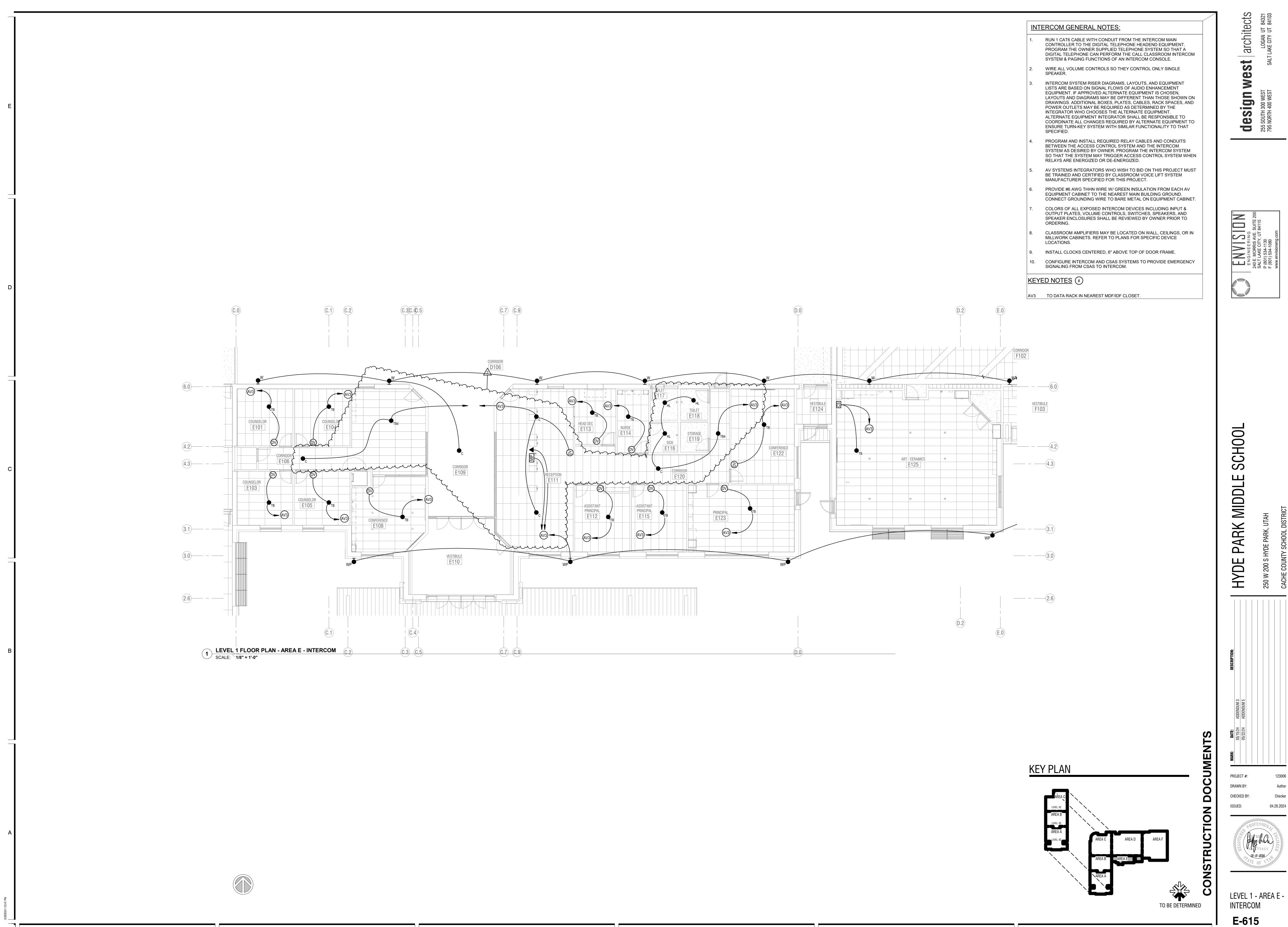
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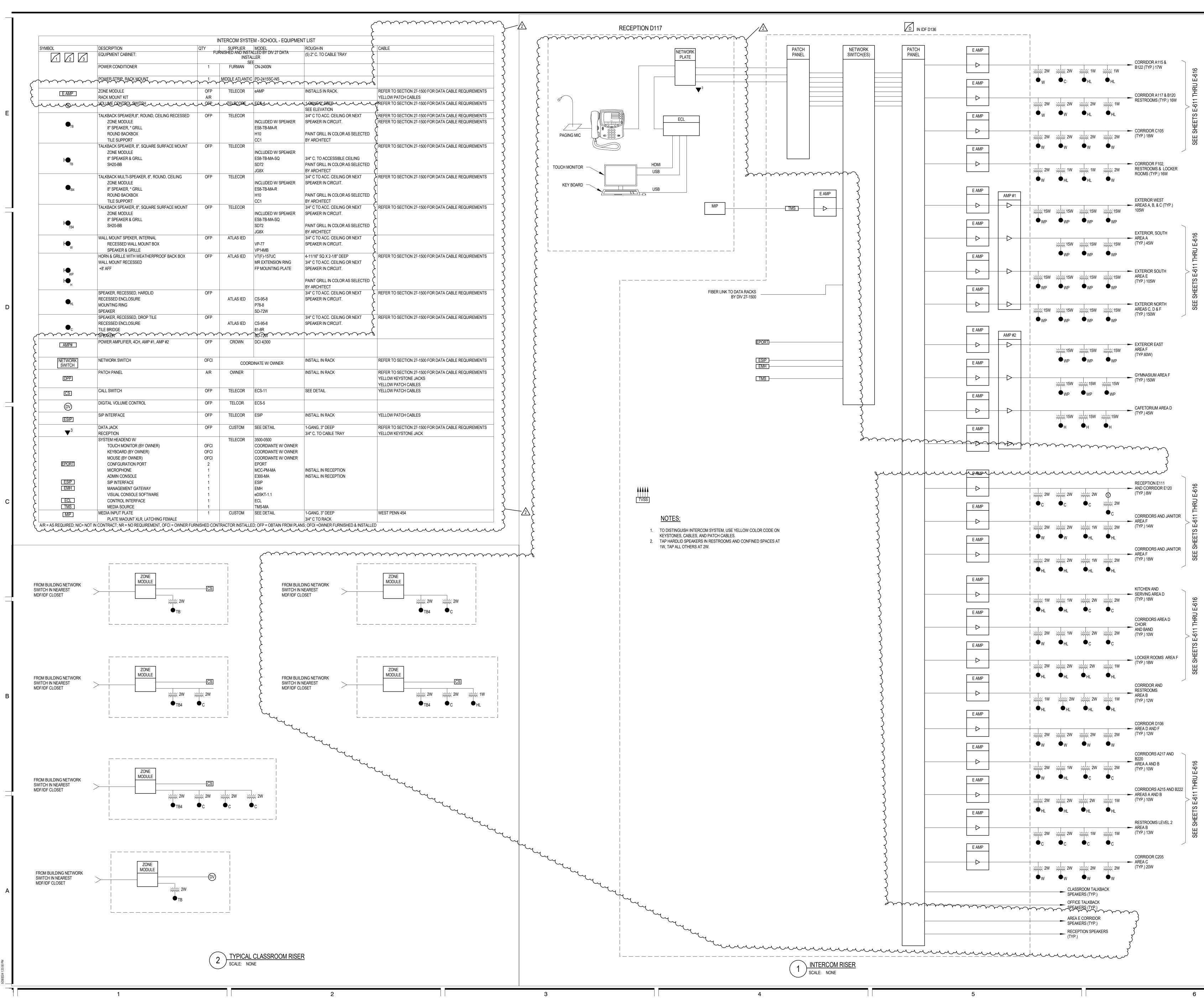
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END OF SECTION 00 0110

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SECTION 07 1713 BENTONITE PANEL WATERPROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Bentonite clay waterproofing panels and accessories.

1.02 RELATED REQUIREMENTS

A. Section 07 2100 - Thermal Insulation: Rigid insulation board used as protection board.

1.03 REFERENCE STANDARDS

A. NRCA (WM) - The NRCA Waterproofing Manual; 2021.

1.04 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate required flashings, sealing at openings.
- C. Certificate: Certify that products meet or exceed specified requirements.
- D. Manufacturer's Installation Instructions: Indicate special preparation of substrate, panel attachment methods, and perimeter conditions requiring special attention.
- E. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing work of the type specified and with at least five years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Maintain bentonite products dry. Protect with waterproof cover.

1.07 FIELD CONDITIONS

A. Maintain ambient temperatures above 40 degrees F for 24 hours before and during application.

1.08 WARRANTY

- A. See Section 01 7800 Closeout Submittals, for additional warranty requirements.
- B. Provide five year manufacturer warranty for waterproofing failing to resist penetration of water.
 - 1. Exception: Where such failures are the result of structural failures of building. Hairline cracking of concrete due to temperature change or shrinkage is not considered a structural failure.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis of Design: Carlisle Coatings and Waterproofing, CCW MiraCLAY.
- B. Other Acceptable Manufacturers Bentonite Panel Waterproofing:
 - 1. Carlisle Coatings and Waterproofing, Inc; CCW MiraCLAY: www.carlisleccw.com/#sle.
 - 2. Substitutions: See Section 01 6000 Product Requirements.

2.02 MATERIALS

- A. Bentonite: Granulated pure, dry, bentonite clay comprised of 90 percent minimum sodium montmorillonite; 90 percent minimum passing No. 20 mesh sieve and 10 percent maximum passing No. 200 mesh sieve.
- B. Waterproofing system accessories supplied by waterproofing membrane manufacturer to include but not be limited to:
 - 1. Sealant: Sealant is used for detailing at terminations and penetrations. Also used to fill minor voids in concrete and as a fillet in angle changes.
 - 2. Granules: Granules used for horizontal to vertical transitions and for detailing at seams and slab penetrations.

- 3. Waterstop: Waterstop at cold concrete pours and between pre-cast concrete panels where they occur.
- 4. Membrane to Substrate Fasteners: Fasteners, of the type and length suitable for the substrate, shall be used in conjunction with washers, of at least 1" diameter to attach the geotextile/bentonite clay waterproofing membrane to the substrate.
- 5. The Geotextile/Bentonite membrane shall consist of geotextile panels of sodium bentonite clay sandwiched between two layers of needle-punched woven and non-woven polypropylene fabrics.
- 6. Drainage Composite: As recommended by the manufacturer for each condition.
- 7. Perimeter Drainage System: Where required.
- C. Geotextile-Faced Panels: One layer of non-woven polypropylene geotextile fabric, center core filled with self healing, self expanding bentonite clay granules and one layer of woven polypropylene geotextile fabric; all layers needlepunched together with high-strength polypropylene yarn.

2.03 ACCESSORIES

- A. Fasteners: Galvanized nails.
- B. Adhesive: Manufacturer's recommended type.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify substrate surfaces are smooth and durable; free of matter detrimental to application of waterproofing system.
- C. Verify that items that penetrate surfaces to receive waterproofing are securely installed.

3.02 PREPARATION

- A. Clean and prepare surfaces to receive waterproofing in accordance with manufacturer's instructions.
- B. Remove concrete fins, projections, and form ties.
- C. Fill holes, cracks, honeycombs at least 1/8 inch thick, extending 3 inches, minimum, beyond defect.

3.03 INSTALLATION - GENERAL

- A. Location: At elevator pit only.
- B. Install panels in accordance with manufacturer's instructions and NRCA (WM) applicable requirements.
- C. Prevent geotextile/bentonite clay waterproofing membrane from hydrating before being covered with overburden. When threat of rain is imminent or backfill is not immediate, geotextile/bentonite clay waterproofing membrane should be covered with polyethylene sheeting.
- D. Cut panels parallel to corrugations to prevent bentonite loss.
- E. Seal construction joints with joint seal.

3.04 INSTALLATION - VERTICAL SURFACES

- A. Install single-ply panels with masonry nails, starting at base of foundation.
- B. Fold panels around corners with corrugations vertical, and install unfolded panels with corrugations horizontal.
- C. Lap adjoining panels 1-1/2 inches.
- D. Install one extra layer of panels at external corners.

3.05 INSTALLATION - BELOW SLABS UNDER HYDROSTATIC CONDITIONS

A. Install polyethylene sheet over subgrade; lap joints 4 inches.

- B. Lay single-ply panels in slab form, and align panels with edge of slab; do not lay panels over pile caps or footings supporting slab edges, and stagger joints of adjoining panel rows.
- C. Lap joints 1-1/2 inch, minimum, and secure laps to prevent displacement.
- D. Extend panels up vertical surfaces at least 12 inches and to overlap vertically applied bentonite panels.
- E. Install joint seal in 1 inch high beads around penetrations through panels and 1/2 inch high beads around chair legs not placed on pads; cover beads with polyethylene sheet collars, cut to size.
- F. Lay joint seal continuously along and around protrusions, penetrations, and at abutting walls; secure to prevent movement.

3.06 PROTECTION

- A. Do not permit traffic over unprotected or uncovered waterproofing.
- B. Cover installed waterproofing with temporary polyethylene sheeting; remove sheeting just before backfilling begins.

END OF SECTION 07 1713

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SECTION 07 5400 THERMOPLASTIC (KEE) MEMBRANE ROOFING - BASE BID

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Mechanically Fastened Membrane Roofing System.
 - 2. Roof Insulation.
 - 3. Vapor Retarder.
 - 4. FiberClad Coated Metal
 - 5. Tapered Roof Insulation
 - 6. Coverboard
 - 7. Walkways
- B. Related Sections:
 - 1. Division 01 General Conditions.
 - 2. Division 06 Wood, Plastics, and Composites.
 - 3. Division 07 Thermal and Moisture Protection.
 - 4. Division 22 Plumbing.
 - 5. Division 23 HVAC.

1.02 REFERENCES

- A. Comply with all References in effect, most active, or latest version as of the date of the Contract Documents.
- B. American Society of Civil Engineers (ASCE) (www.asce.org) 7 Minimum Design Loads for Buildings and Other Structures.
- C. ASTM International (ASTM) (www.astm.org):
 - 1. C578 Standard Specification for Preformed Cellular Polystyrene Thermal Insulation.
 - 2. C1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
 - 3. C1278 Standard Specification for Fiber-Reinforced Gypsum Panel.
 - 4. C1289 Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
 - 5. C1549 Standard Test Method for Determination of Solar Reflectance near Ambient Temperature Using a Portable Solar Reflectometer.
 - 6. D751 Standard Test Methods for Coated Fabrics
 - 7. D882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting
 - 8. D1149 Standard Test Methods for Rubber Deterioration Cracking in an Ozone Controlled Environment.
 - 9. D1204 Standard Test Method for Linear Dimensional Changes for Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature.
 - 10. D2136 Standard Test Method for Coated Fabrics Low-Temperature Bend Test.
 - 11. D4397 Standard specification for Polyethylene sheeting for construction, industrial and agricultural applications.
 - 12. D4434 Standard Specification for Poly (Vinyl Chloride) Sheet Roofing.
 - 13. D5635 Standard Test Method for Dynamic Puncture Resistance of Roofing Membrane Specimens.
 - 14. D6754 Standard Specification for Ketone Ethylene Ester Based Sheet Roofing.
 - 15. E108 Standard Test Methods for Fire Tests of Roof Coverings.
 - 16. E1980 Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces.
- D. Energy Star (www.energystar.gov) Qualified Products.
- E. Factory Mutual Insurance Co. (FM) (www.fmglobal.com):
 - 1. 4470 Approval Standard for Single-Ply, Polymer-Modified Bitumen Sheet, Built-Up Roof (BUR) and Liquid Applied Roof Assemblies for Use in Class 1 and Noncombustible Roof

Deck Construction.

- 2. Property Loss Prevention Data Sheet 1-28 Design Wind Loads.
- 3. Property Loss Prevention Data Sheet 1-49 Perimeter Flashing.
- F. National Roofing Contractors Association (NRCA) Roofing and Waterproofing Manual.
- G. NSF/ANSI 347 Sustainability Assessment for Single Ply Membranes.
- H. 2010 Americans with Disabilities Act. (ADAAG) (www.ada.gov).
- I. 2015 International Building Code. (2015 IBC).

1.03 PERFORMANCE REQUIREMENTS

- A. General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.
- B. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing membrane manufacturer based on testing and field experience.
- C. FMG Listing: Provide roofing membrane, base flashings, and component materials that comply with requirements in FMG 4450 and FMG 4470 as part of a membrane roofing system and that are listed in FMG's "Approval Guide" for Class 1 or noncombustible construction, as applicable. Identify materials with FMG markings.
 - 1. Fire/Windstorm Classification: Class 1A-90.
 - 2. Hail Resistance: MH.
- D. Roofing System Design: Provide a membrane roofing system that is identical to systems that have been successfully tested by a qualified testing and inspecting agency to resist the factored design uplift pressures calculated according to SPRI's "Wind Load Design Guide for Fully Adhered and Mechanically Fastened Roofing Systems."

1.04 SUBMITTALS

- A. Under provisions of Division 01.
- B. Product Data: For each type of product indicated.
- C. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other Work.
 - 1. Base flashings and membrane terminations.
 - 2. Tapered insulation, including slopes.
 - 3. Insulation fastening patterns.
- D. Samples for Verification: For the following products:
 - 1. 12 by 12 inch square of sheet roofing, of color specified, including T-shaped side and end lap seam.
 - 2. 12 by 12-inch square of roof insulation.
 - 3. 12 by 12-inch (300-by-300-mm) square of walkway pads or rolls.
 - 4. 12 inch (300-mm) length of metal termination bars.
 - 5. Six (6) fasteners of each type.
- E. Installer Certificates: Signed by roofing system Manufacturer certifying that Installer is approved, authorized, or licensed by manufacturer to install roofing system.
- F. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
 1. Submit evidence of meeting performance requirements.
- G. Qualification Data: For Installer and manufacturer.
- H. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for components of roofing system.
- I. Maintenance Data: For roofing system to include in maintenance manuals.
- J. Warranties: Special warranties specified in this Section.

K. Inspection Report: Copy of roofing system Manufacturer's inspection report of completed roofing installation.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system Manufacturer to install Manufacturer's product and that is eligible to receive Manufacturer's warranty.
- B. Manufacturer Qualifications: A qualified manufacturer with 20 Years experience manufacturing the same membrane without formulation changes. The roofing membrane formulation and system shall be identical to that used for this Project, per applicable change, by law. The membrane and accessories must be produced by the warranted manufacturer. No Private Label Products will be accepted.
- C. Source Limitations: Obtain components for membrane roofing system approved by roofing membrane manufacturer.
- D. Fire-Test-Response Characteristics: Provide membrane roofing materials with the fire-testresponse characteristics indicated as determined by testing identical products per test method below by UL, FMG, or another testing and inspecting agency acceptable to authorities having jurisdiction. Materials shall be identified with appropriate markings of applicable testing and inspecting agency.
 - 1. Exterior Fire-Test Exposure: Class A; ASTM E108, for application and roof slopes indicated.
- E. Pre-installation Conference: Conduct conference at Project site. Comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to roofing system including, but not limited to, the following:
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions. Note: Contractor shall have written manufacturer specifications, roof drawings, roof drawing notes and scope of work of work on site during the construction period.
 - 3. Review and finalize a construction schedule and verification of material availability.
 - 4. Review structural loading limitations, prior to loading.
 - 5. Review all details, including base flashings, special details, roof drainage, roof penetration schedule, equipment curb and any conditions that will affect the roofs construction or integrity.
 - 6. Review Contractors Risk Management Plan and OSHA approved Safety Program
 - 7. Review roof observation and repair procedures during and after roof installation.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 - 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.

1.07 PROJECT CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.08 WARRANTY

- A. Special Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.
 - 1. Special warranty includes roofing membrane, base flashings, roofing membrane accessories, roof insulation, fasteners, walkway products and other components of membrane roofing system.
 - 2. Warranty Period: Twenty (20) Year NDL, Non-Prorated, from date of Substantial Completion.
 - 3. Warranty shall include a 1inch Hail Warranty and shall have no exclusions for ponding conditions.
- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering Work of this Section, including all components of membrane roofing system such as roofing membrane, base flashing, roof insulation, fasteners, cover boards, substrate boards, vapor retarders, roof pavers, and walkway products, for the following warranty period:
 - 1. Warranty Period: Two (2) years from date of Substantial Completion.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Design Basis: Contract Documents and are based on products by:
 - 1. Seaman Corporation Fibertite. (www.fibertite.com).
 - a. ASTM D6754, Ketone Ethylene Ester (KEE) Sheet Roofing, FiberTite-SM Membrane.
- B. Substitutions: Under provisions of Division 01:
 - 1. Approved Equal: Submitting Manufacturers will be subject to compliance with stated requirements. Substitution request must be submitted 10 days prior to bid date. Provide products, by the manufacturer, that meet or exceed the stated manufacturers qualifications, performance requirements, fire test requirements, physical properties and warranty requirements.
 - a. Thickness: 45 mils (1.1 mm), nominal.
 - b. Color: Off White/ Thermal Tan.
 - c. Inter-ply Reinforcement to be 18 x 19 / 840 X 1,000 denier with reinforced polyester knit fabric that includes an adhesive coating that promotes a molecular bond between the base fabric and the top and bottom membrane facer films.
 - d. Maximum sheet width 6 feet (or up to 74 inches).
 - 2. Substitution request must comply with the following minimum physical properties, Substitutes will only be considered if properties are provided in the same format, as below, for comparison purposes.

a.	Test Method Result		
	Thickness (nominal)	ASTM D751	0.045 (1.14mm)
	Breaking Strength	ASTM D751 Grab	375 x 350 lbs
	Tensile Strength	ASTM D882	8500 psi (598 kgf/cm2)
	Tear Strength	ASTM D751	100 lbs (445 N)
	Dynamic Puncture	ASTM D5635	25 joules
	Low Temperature Flex	ASTM D2136	-40 degrees F
	Dimensional Stability	ASTM D1204	<1.0%
	Seam Strength	ASTM D751	100% of fabric strength
	Coating Adhesion	ASTM D751	Cannot initiate coating peel

Hydrostatic Resistance	ASTM D751	750 psi (46 kgf/cm2)
Oil Resistance	MIL-C-20696C	No swelling, cracking, or leaking
Ozone Resistance Solar Reflectance Index (SRI)	ASTM D1149	No effect
	ASTM E1980	98.54

3. All Manufacturers submitting for an approved substitution must produce a membrane which contains the solid state polymer "KEE" or Elvaloy component.

2.02 AUXILIARY MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with membrane roofing.
 - 1. Liquid-type auxiliary materials shall meet VOC limits of authorities having jurisdiction.
- B. Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as KEE sheet membrane.
- C. Bonding Adhesive: Manufacturers standard solvent based bonding adhesive, for membrane and for base flashing applications.
- D. Insulation Adhesive: Manufacturers approved low rise or Two-Part Polyurethane Insulation Adhesive.
- E. Manufacturer's standard predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.
- F. Fasteners: Factory-coated steel fasteners and metal plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.
- G. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips, and other accessories, as required and approved by the manufacturer.
- H. FiberClad coated, heat weldable sheet metal capable of being formed into a variety of shapes and profiles. 24 gauge. G90 galvanized metal sheet with a 20 mil (0.5 mm) coating. 4 ft by 8 ft (1.2 m x)
 - 1. m) or 4 ft by 10 ft (1.2 m x 3.0 m).
- I. Wall Vents: 24 gauge galvanized or PVC clad steel. Net free area of 39.6 sq.in. each. Shall be shaped to keep out rain water. Shall have 1/8 inch or finer bug screen.
- J. Sump Pans: Install a prefabricated insulation sumped drain, 36 by 36 inch min. at each roof drain, overflow drain, and reinforce, per Manufacturers approved detail requirement.

2.03 ROOF INSULATION

- A. General: Provide preformed roof insulation boards that comply with requirements and referenced standards, selected from manufacturer's standard sizes and of thicknesses indicated.
- B. Polyisocyanurate Board Insulation: ASTM C1289, Type II, 20 psi, felt or glass-fiber mat facer on both major surfaces.
- C. Equivalent products by following Manufacturers are acceptable:
 - 1. Atlas Roofing Corp. (www.atlasroofing.com).
 - 2. Hunter Panels. (www.hpanels.com).
 - 3. Substitutions: As approved by the Membrane Manufacturer and under provisions of Division 01.
- D. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated utilizing Polyisocyanurate Insulation.
 - 1. EPS insulation type II, ASTM 578, is an acceptable alternate for tapered insulation at cricket conditions only.
 - a. Density: 1.50 pcf minimum.

2.04 INSULATION ACCESSORIES

- A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatible with membrane roofing.
- B. Fasteners: Factory-coated steel fasteners and metal or plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.
- C. Sump Pans: Install a prefabricated insulation sumped drain, 36 by 36 inch min. at each roof drain, overflow drain, and reinforce, per Manufacturers approved detail requirement.

2.05 COVER BOARDS

- A. Cover Board: Glass mat faced gypsum panels, ASTM C1177/C1177M, fire resistant type, 5/8 inch thick.
 - 1. See Section 09 2116 Gypsum Board Assemblies
 - a. Location: See parapet walls and cap details in drawings.

2.06 WALKWAYS

A. Flexible Walkways: Install contrasting color flexible walkways, fully adhered and acceptable to the membrane roofing system manufacturer, warranted for the duration-equal to the specified system warranty.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:
 - 1. Verify that roof openings and penetrations are in place and set and braced and that roof drains are securely clamped in place.
 - 2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations, terminations and that nailers match thicknesses of insulation.
 - 3. Verify that surface plane flatness and fastening of steel roof deck comply with requirements in Division 5 Section "Steel Decking."

3.02 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- C. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

3.03 INSULATION INSTALLATION

- A. Coordinate installing membrane roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
- B. Comply with membrane roofing system manufacturer's written instructions for installing roof insulation.
- C. Install tapered insulation under area of roofing to conform to slopes indicated.
- D. Install insulation under area of roofing to achieve required LTTR R Value of 34.0 Min. Install two equal layers of insulation, with joints of each succeeding layer staggered from joints of previous layer, half lapped in each direction.
- E. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.

- F. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch with insulation.
 - 1. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
 - 2. Fasten insulation according to requirements in FMG's "Approval Guide" for specified Windstorm Resistance Classification.
 - 3. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof.
- G. Sump Pans: Install a prefabricated insulation sumped drain, 36 by 36 inch min. at each roof drain, overflow drain, and reinforce, per Manufacturers approved detail requirement.

3.04 MECHANICALLY FASTENED ROOFING MEMBRANE INSTALLATION

- A. Install roofing membrane over area to receive roofing according to roofing system manufacturer's written instructions. Unroll roofing membrane and allow relaxing before installing.
- B. Start installation of roofing membrane in presence of roofing system manufacturer's technical personnel.
- C. Accurately align roofing membranes and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- D. Mechanically fasten roofing membrane securely at terminations, penetrations, and perimeter of roofing.
- E. Apply roofing membrane with side laps shingled with slope of roof deck where possible.
- F. Seams: Clean seam areas, overlap roofing membrane, and hot-air weld side and end laps of roofing membrane according to manufacturer's written instructions to ensure a watertight seam installation.
 - 1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of roofing membrane.
 - 2. Verify field strength of seams a minimum of twice daily, repair seam sample areas, label with date / location and retain for manufacturers technical manager's review.
 - 3. Repair tears, voids, and lapped seams in roofing membrane that does not meet requirements.
- G. Spread sealant or mastic bed over deck drain flange at deck drains and securely seal roofing membrane in place with clamping ring.
- H. In-Splice Attachment: Secure one edge of roofing membrane using fastening plates or metal battens centered within membrane splice and mechanically fasten roofing membrane to roof deck. Field-splice seam.

3.05 BASE FLASHING INSTALLATION

- A. Install sheet flashings and preformed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.
- B. Apply solvent-based bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply bonding adhesive to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with sheet flashing.
- D. Clean seam areas and overlap and firmly roll sheet flashings into the adhesive. Weld side and end laps to ensure a watertight seam installation.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.06 WALKWAY INSTALLATION

A. Flexible Walkways: Install walkway products in locations indicated. Heat weld to substrate or adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

3.07 FIELD QUALITY CONTROL

- A. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion and submit report to Architect.
 - 1. Notify Architect or Owner 72 hours in advance of date and time of inspection.
- B. Repair or remove and replace components of membrane roofing system where test results or inspections indicate that they do not comply with specified requirements.
- C. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.08 PROTECTING AND CLEANING

- A. Protect membrane roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove membrane roofing system that does not comply with requirements, repair substrates, and repair or reinstall membrane roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

3.09 ROOFING INSTALLER'S WARRANTY

- A. WHEREAS of , herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:
 - 1. Owner:
 - 2. Address:
 - 3. Building Name/Type:
 - 4. Address:
 - 5. Area of Work:
 - 6. Acceptance Date:
 - 7. Warranty Period:
 - 8. Expiration Date:
- B. AND WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,
- C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.
- D. This Warranty is made subject to the following terms and conditions:
 - 1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. lightning;
 - b. peak gust wind speed exceeding 70 mph (m/sec);
 - c. fire;
 - d. failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
 - e. faulty construction of parapet walls, copings, chimneys, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
 - f. vapor condensation on bottom of roofing; and

- g. Activity on roofing by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
- 2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designated.
- 3. Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from leaks or faults or defects of work.
- 4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Roofing Installer to perform said alterations, Warranty shall not become null and void unless Roofing Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
- 5. During Warranty Period, if original use of roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray-cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void on date of said change, but only to the extent said change affects work covered by this Warranty.
- 6. Owner shall promptly notify Roofing Installer of observed, known, or suspected leaks, defects, or deterioration and shall afford reasonable opportunity for Roofing Installer to inspect work and to examine evidence of such leaks, defects, or deterioration.
- 7. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of roofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.
- E. IN WITNESS THEREOF, this instrument has been duly executed this day of, .
 - 1. Authorized Signature:
 - 2. Name:
 - 3. Title:

END OF SECTION 07 5400

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SECTION 07 5419 SINGLE-PLY PVC THERMOPLASTIC ROOFING - BID ALTERNATE #2

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Mechanically attached PVC thermoplastic roofing membrane.
- B. Insulation, flat and tapered.
- C. Vapor retarder.
- D. Roofing cant strips, stack boots, roofing expansion joints, and walkway pads.

1.02 RELATED REQUIREMENTS

A. Section 07 6200 - Sheet Metal Flashing and Trim: Counterflashings, reglets and _____.

1.03 REFERENCE STANDARDS

- A. ASCE 7 Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- B. ASTM C578 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2023.
- C. ASTM C1177/C1177M Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2017.
- D. ASTM C1289 Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2023a.
- E. ASTM D4434/D4434M Standard Specification for Poly(Vinyl Chloride) Sheet Roofing; 2021.
- F. FM DS 1-28 Wind Design; 2015, with Editorial Revision (2024).
- G. FM DS 1-29 Roof Deck Securement and Above-Deck Roof Components; 2016, with Editorial Revision (2022).
- H. NRCA (RM) The NRCA Roofing Manual; 2024.

1.04 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements for submittal procedures.
- B. Product Data: Provide manufacturer's written information listed below.
 - 1. Product data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.
- C. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and paver layout.
- D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- E. Warranty:
 - 1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
 - 2. Submit installer's certification that installation complies with all warranty conditions for the waterproof membrane.
- F. Installer's qualification statement.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system Manufacturer to install Manufacturer's product and that is eligible to receive Manufacturer's warranty.
- B. Manufacturer Qualifications: A qualified manufacturer with 20 Years experience manufacturing the same membrane without formulation changes. The roofing membrane formulation and system shall be identical to that used for this Project, per applicable change, by law. The membrane and accessories must be produced by the warranted manufacturer. No Private Label Products will be accepted.

- C. Source Limitations: Obtain components for membrane roofing system approved by roofing membrane manufacturer.
- D. Fire-Test-Response Characteristics: Provide membrane roofing materials with the fire-testresponse characteristics indicated as determined by testing identical products per test method below by UL, FMG, or another testing and inspecting agency acceptable to authorities having jurisdiction. Materials shall be identified with appropriate markings of applicable testing and inspecting agency.
 - 1. Exterior Fire-Test Exposure: Class A; ASTM E108, for application and roof slopes indicated.
- E. Pre-installation Conference: Conduct conference at Project site. Comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to roofing system including, but not limited to, the following:
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions. Note: Contractor shall have written manufacturer specifications, roof drawings, roof drawing notes and scope of work of work on site during the construction period.
 - 3. Review and finalize a construction schedule and verification of material availability.
 - 4. Review structural loading limitations, prior to loading.
 - 5. Review all details, including base flashings, special details, roof drainage, roof penetration schedule, equipment curb and any conditions that will affect the roofs construction or integrity.
 - 6. Review Contractors Risk Management Plan and OSHA approved Safety Program.
 - 7. Review roof observation and repair procedures during and after roof installation.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.
- B. Protect products in weather protected environment, clear of ground and moisture.
- C. Protect foam insulation from direct exposure to sunlight.

1.07 FIELD CONDITIONS

- A. Do not apply roofing membrane during unsuitable weather.
- B. Do not apply roofing membrane when ambient temperature is below 40 degrees F or above _____ degrees F.
- C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- D. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

1.08 WARRANTY

- A. See Section 01 7800 Closeout Submittals for additional warranty requirements.
- B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.
 - 1. Warranty Term: 20 years.
 - 2. For repair and replacement include costs of both material and labor in warranty.
 - 3. Exceptions NOT Permitted:
 - a. Damage due to wind of speed greater than 56 mph but less than 90 mph.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis of Design: Carlisle SynTec: www.carlisle-syntec.com/#sle.
- B. Substitutions: See Section 01 6000 Product Requirements.

2.02 ROOFING APPLICATIONS

- A. PVC Membrane Roofing: One ply membrane, mechanically fastened, over insulation.
- B. Roofing Assembly Performance Requirements and Design Criteria:
 - 1. Wind Uplift:
 - a. Designed to withstand wind uplift forces calculated with ASCE 7.
 - b. Design Wind Speed: In accordance with local building code and authorities having jurisdiction (AHJ).

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

- A. Membrane:
 - 1. Material: Polyvinyl chloride (PVC) complying with ASTM D4434/D4434M.
 - 2. Reinforcing: Internal fabric.
 - 3. Thickness: 60 mils (0.060 inch), minimum.
 - 4. Sheet Width: Factory fabricated into largest sheets possible.
 - 5. Color: White.
 - 6. Products:
 - a. Carlisle SynTec Systems; SureFlex PVC.
- B. Seaming Materials: As recommended by membrane manufacturer.
- C. Membrane Fasteners: As recommended and approved by membrane manufacturer.
 - 1. Carlisle SynTec Systems; HP-X Fastener: #15 threaded fastener with #3 Phillips drive. Use with Carlisle SynTec Systems Piranha Fastening Plate for mechanically fastened membrane systems on steel or plywood decks.
- D. Vapor Retarder: Material approved by roof manufacturer complying with requirements of fire rating classification; compatible with roofing and insulation materials.
 - 1. Fire-retardant adhesive.
- E. Flexible Flashing Material: Same material as membrane.

2.04 COVER BOARDS

- A. Cover Board: Glass mat faced gypsum panels, ASTM C1177/C1177M, fire resistant type, 5/8 inch thick.
 - 1. Product: See Section 09 2116 Gypsum Board Assemblies
 - a. Location: See parapet walls and cap details in drawings.

2.05 INSULATION

- A. Polyisocyanurate (ISO) Board Insulation: Complies with ASTM C1289, Type II, Class 2
 1. Grade and Compressive Strength: Grade 2, 20 psi, minimum.
- B. Expanded Polystyrene (EPS) Board Insulation: Complies with ASTM C578, Type II, is an acceptable alternate for tapered insulation at cricket conditions only.
 - 1. Location: Crickets only
 - 2. Density: 1.5 pcf minimum

2.06 ACCESSORIES

- A. Prefabricated Flashing Accessories:
 - 1. Corners and Seams: Same material as membrane, in manufacturer's standard thicknesses.
 - 2. Penetrations: Same material as membrane, with manufacturer's standard cut-outs, rigid inserts, clamping rings, and flanges.

- 3. Walkway Rolls: Sure-Flex Heat Weldable Walkway Rolls; 80 mils (0.080 inch) thick; gray membrane.
- 4. Contour Rib Profile: Manufacturer's standard extruded PVC; 1-1/4 inch tall, 2-1/8 inch wide, 3/8 inch profile.
- 5. Miscellaneous Flashing: Non-reinforced PVC membrane; 80 mils (0.080 inch) thick, in manufacturer's standard lengths and widths.
- B. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.
- C. Membrane Adhesive: As recommended by membrane manufacturer.1. Products:
- D. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.
- E. Sealants: As recommended by membrane manufacturer.
 - 1. Products:
- F. Cleaner: Manufacturer's standard, clear, solvent-based cleaner.
- G. Edgings and Terminations: Manufacturer's standard edge and termination accessories.
 - 1. Snap-On Edge System:
 - 2. Anchor Bar Fascia System:
 - 3. Drip Edge:
 - 4. Coping:
 - 5. PVC Coated Sheet Metal.
 - 6. Termination Bar.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces and site conditions are ready to receive work.
- B. Verify deck is supported and secure.
- C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- D. Verify deck surfaces are dry and free of snow or ice.
- E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

3.02 INSTALLATION - GENERAL

- A. Perform work in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.
- B. Do not apply roofing membrane during unsuitable weather.
- C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
- D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

3.03 INSTALLATION - GENERAL

- A. Perform work in accordance with manufacturer's instructions.
- B. Do not apply roofing membrane during unsuitable weather.
- C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
- D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

3.04 INSULATION INSTALLATION

- A. Attachment of Insulation:
 - 1. Mechanically fasten insulation to deck in accordance with roofing manufacturer's instructions and Factory Mutual requirements.
- B. Lay subsequent layers of insulation with joints staggered minimum 6 inches from joints of preceding layer.
- C. Lay boards with edges in moderate contact without forcing, and gap between boards no greater than 1/4 inch. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
- D. Do not apply more insulation than can be completely waterproofed in the same day.

3.05 MEMBRANE APPLICATION

- A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
- B. Shingle joints on sloped substrate in direction of drainage.
- C. Seam Welding:
 - 1. Seam Welding: Overlap edges and ends and seal seams by heat welding, minimum 2 inches.
 - 2. Cover all seams with manufacturer's recommended joint covers.
 - 3. Probe all seams once welds have thoroughly cooled. (Approximately 30 minutes.)
 - 4. Repair all deficient seams within the same day.
 - 5. Seal cut edges of reinforced membrane after seam probe is complete.
- D. Mechanical Attachment:
 - 1. Apply membrane and mechanical attachment devices in accordance with manufacturer's instructions.
- E. At intersections with vertical surfaces:
 - 1. Extend membrane over cant strips and up a minimum of 4 inches onto vertical surfaces.
 - 2. Fully adhere flexible flashing over membrane and up to nailing strips.
- F. Coordinate installation of roof drains and sumps and related flashings.
- G. Daily Seal: Install daily seal per manufacturers instructions at the end of each work day. Prevent infiltration of water at incomplete flashings, terminations, and at unfinished membrane edges.

3.06 FIELD QUALITY CONTROL

- A. See Section 01 4000 Quality Requirements for general requirements for field quality control and inspection.
- B. Require site attendance of roofing and insulation material manufacturers daily during installation of the Work.

3.07 CLEANING

- A. See Section 01 7000 Execution and Closeout Requirements for additional requirements.
- B. Remove bituminous markings from finished surfaces.
- C. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.
- D. Repair or replace defaced or damaged finishes caused by work of this section.

3.08 PROTECTION

A. Protect installed roofing and flashings from construction operations.

B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION 07 5419

SECTION 08 4313 ALUMINUM-FRAMED STOREFRONTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Aluminum-framed storefront, with vision glass.
- B. Aluminum doors and frames.
 - 1. **NOTE:** On doors receiving exit devices no universal preps are allowed and the doors shall be prepared specifically for the exit device functions as scheduled.
- C. Weatherstripping.

1.02 RELATED REQUIREMENTS

- A. Section 08 4229 Automatic Entrances.
- B. Section 08 7100 Door Hardware: Hardware items other than specified in this section.
- C. Section 08 8000 Glazing: Glass and glazing accessories.

1.03 REFERENCE STANDARDS

- A. AAMA CW-10 Care and Handling of Architectural Aluminum from Shop to Site; 2015.
- B. AAMA 611 Voluntary Specification for Anodized Architectural Aluminum; 2020.
- C. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.
- D. ASTM B221M Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.
- E. ASTM E283/E283M Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2019.
- F. ASTM E330/E330M Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014 (Reapproved 2021).

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate with installation of other components that comprise the exterior enclosure.
- B. Preinstallation Meeting: Conduct a preinstallation meeting one week before starting work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements for submittal procedures.
- B. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, door hardware, and internal drainage details.
- C. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related work, expansion and contraction joint location and details, and field welding required.
 - 1. **NOTE**: On doors receiving exit devices no universal preps are allowed and the doors shall be prepared specifically for the exit device functions as scheduled.
- D. Samples: Submit two samples 2 by 4 inches in size illustrating finished aluminum surface, glass, glazing materials.
- E. Manufacturer's Certificate: Certify that the products supplied meet or exceed the specified requirements.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.

- B. Installer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.
- C. Prior to ordering aluminum doors, frames and hardware, provide a mock-up of a pair of entrance doors with the scheduled hardware found in the Project Manual. Upon written approval of the mock-up by the Owner, Architect and their Consultants and after submittal review and acceptance and after the pre-installation meeting as required by this Section, aluminum doors and frames may be fabricated and hardware may be ordered.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Handle products of this section in accordance with AAMA CW-10.
- B. Protect finished aluminum surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond to aluminum when exposed to sunlight or weather.

1.08 FIELD CONDITIONS

A. Do not install sealants when ambient temperature is less than 40 degrees F. Maintain this minimum temperature during and 48 hours after installation.

1.09 WARRANTY

- A. See Section 01 7800 Closeout Submittals for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.
- C. Provide five year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking.

PART 2 PRODUCTS

2.01 BASIS OF DESIGN -- FRAMING FOR INSULATING GLAZING

- A. Center-Set Style, Thermally-Broken:
 - 1. Basis of Design: Kawneer: Trifab VersaGlaze 451T Framing System at exterior openings; www.kawneer.com.
 - 2. Vertical Mullion Dimensions: 2 inches wide by 4-1/2 inches deep.
- B. Center-Set Style, Not Thermally-Broken:
 - 1. Basis of Design: Kawneer: Trifab VersaGlaze 451 Framing System at interior openings and interior vestibule doors; www.kawneer.com.
 - 2. Vertical Mullion Dimensions: 2 inches wide by 4-1/2 inches deep.
- C. Substitutions: See Section 01 6000 Product Requirements.

2.02 BASIS OF DESIGN -- SWINGING DOORS

- A. Wide Stile, Single Glazing:
 - 1. Basis of Design: Kawneer: 500 Standard Entrance System at interior openings including interior vestibule doors; www.kawneer.com.
 - 2. Thickness: 1-3/4 inches.
- B. Wide Stile, Insulating Glazing, Not Thermally-Broken
 - 1. Basis of Design: Kawneer: 500 Standard Entrance System at exterior openings for Not Thermally-Broken; Kawneer 500T Insulpour for Thermally-Broken; www.kawneer.com.
 - 2. Thickness: 1-3/4 (at Not Thermal-Broken) and 2-1/4" (at Thermal-Broken) inches.
- C. Substitutions: See Section 01 6000 Product Requirements.
 - 1. For any product not identified as "Basis of Design", submit information as specified for substitutions.

2.03 MANUFACTURERS

- A. Aluminum-Framed Storefront and Doors:
 - 1. EFCO Corporation; ____: www.efcocorp.com/#sle.
 - 2. Kawneer North America; ____: www.kawneer.com/#sle.
 - 3. Manko Window Systems, Inc; ____: www.mankowindows.com/#sle.
 - 4. Oldcastle BuildingEnvelope; _____: www.oldcastlebe.com/#sle.

- 5. Tubelite, Inc; ____: www.tubeliteinc.com/#sle.
- 6. YKK AP America Inc; _____: www.ykkap.com/#sle.
- 7. Substitutions: See Section 01 6000 Product Requirements.

2.04 ALUMINUM-FRAMED STOREFRONT

- A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
 - 1. Finish Color: As select by architect from manufactures full range of colors.
 - 2. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors and hardware; fasteners and attachments concealed from view; reinforced as required for imposed loads.
 - 3. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
 - 4. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
 - 5. Expansion/Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F over a 12 hour period without causing detrimental effect to system components, anchorages, and other building elements.
 - 6. Movement: Allow for movement between storefront and adjacent construction, without damage to components or deterioration of seals.
 - 7. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.
 - 8. Maintain continuous air barrier and/or vapor retarder seal throughout assembly, primarily in line with inside pane of glazing and inner sheet of infill panel, and heel bead of glazing compound.
- B. Performance Requirements
 - 1. Wind Loads: Design and size components to withstand the specified load requirements without damage or permanent set, when tested in accordance with ASTM E330/E330M, using loads 1.5 times the design wind loads and 10 second duration of maximum load.
 - a. Member Deflection: Limit member deflection to flexure limit of glass in any direction, with full recovery of glazing materials.
 - 2. Air Leakage: 0.06 cfm/sq ft maximum leakage of storefront wall area when tested in accordance with ASTM E283/E283M at 1.57 psf pressure difference.

2.05 COMPONENTS

- A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
 - 1. Framing members for interior applications need not be thermally broken.
 - 2. Glazing Stops: Flush.
- B. Glazing: See Section 08 8000.
- C. Swing Doors: Glazed aluminum.
 - 1. Thickness: 1-3/4 and 2-1/4 inches inches.
 - 2. Top Rail: 5 inches wide.
 - 3. Vertical Stiles: 5 inches wide.
 - 4. Bottom Rail: 10 inches wide.
 - 5. Glazing Stops: Square.
 - 6. Finish: Same as storefront.

2.06 MATERIALS

- A. Extruded Aluminum: ASTM B221 (ASTM B221M).
- B. Fasteners: Stainless steel.
- C. Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements.

2.07 FINISHES

- A. Class I Color Anodized Finish: AAMA 611 AA-M12C22A42 Integrally colored anodic coating not less than 0.7 mils thick.
- B. Color: As selected by Architect from manufacturer's full range.
- C. Touch-Up Materials: As recommended by coating manufacturer for field application.

2.08 HARDWARE

- A. Other Door Hardware: See Section 08 7100.
- B. Weatherstripping: Wool pile, continuous and replaceable; provide on all doors.
- C. Sill Sweep Strips: Resilient seal type, retracting, of neoprene; provide on all doors.
- D. Automatic Door Operators and Actuators: See Section 08 4229.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify dimensions, tolerances, and method of attachment with other work.
- B. Verify that storefront wall openings and adjoining water-resistive and/or air barrier seal materials are ready to receive work of this section.

3.02 INSTALLATION

- A. Install wall system in accordance with manufacturer's instructions.
- B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
- C. Provide alignment attachments and shims to permanently fasten system to building structure.
- D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.
- E. Provide thermal isolation where components penetrate or disrupt building insulation.
- F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.
- G. Where fasteners penetrate sill flashings, make watertight by seating and sealing fastener heads to sill flashing.
- H. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- I. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.

3.03 TOLERANCES

- A. Maximum Variation from Plumb: 0.06 inch per 3 feet non-cumulative or 0.06 inch per 10 feet, whichever is less.
- B. Maximum Misalignment of Two Adjoining Members Abutting in Plane: 1/32 inch.

3.04 ADJUSTING

A. Adjust operating hardware and sash for smooth operation.

3.05 CLEANING

- A. Remove protective material from pre-finished aluminum surfaces.
- B. Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths, and take care to remove dirt from corners and to wipe surfaces clean.

3.06 PROTECTION

A. Protect installed products from damage until Date of Substantial Completion.

END OF SECTION 08 4313

SECTION 08 8000 GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Insulating glass units.
- B. Glazing units.
- C. Glazing compounds.

1.02 RELATED REQUIREMENTS

- A. Section 07 2500 Weather Barriers.
- B. Section 07 9200 Joint Sealants: Sealants for other than glazing purposes.
- C. Section 08 1113 Hollow Metal Doors and Frames: Glazed lites in doors and borrowed lites.
- D. Section 08 1416 Flush Wood Doors: Glazed lites in doors.
- E. Section 08 3200 Sliding Glass Doors: Glazing provided by door manufacturer.
- F. Section 08 4229 Automatic Entrances: Glazing provided as part of door assembly.
- G. Section 08 4313 Aluminum-Framed Storefronts: Glazing provided as part of storefront assembly.
- H. Section 10 2800 Toilet, Bath, and Laundry Accessories: Mirrors.

1.03 REFERENCE STANDARDS

- A. 16 CFR 1201 Safety Standard for Architectural Glazing Materials; Current Edition.
- B. ANSI Z97.1 American National Standard for Safety Glazing Materials Used in Buildings -Safety Performance Specifications and Methods of Test; 2015 (Reaffirmed 2020).
- C. ASCE 7 Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- D. ASTM C864 Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2019).
- E. ASTM C920 Standard Specification for Elastomeric Joint Sealants; 2018.
- F. ASTM C1036 Standard Specification for Flat Glass; 2021.
- G. ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.
- H. ASTM C1193 Standard Guide for Use of Joint Sealants; 2016 (Reapproved 2023).
- I. ASTM C1376 Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass; 2021a.
- J. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.
- K. ASTM E1300 Standard Practice for Determining Load Resistance of Glass in Buildings; 2016.
- L. ASTM E2190 Standard Specification for Insulating Glass Unit Performance and Evaluation; 2019.
- M. GANA (SM) GANA Sealant Manual; 2008.
- N. ITS (DIR) Directory of Listed Products; Current Edition.
- O. NFRC 100 Procedure for Determining Fenestration Product U-factors; 2023.
- P. NFRC 200 Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence; 2023.
- Q. NFRC 300 Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems; 2023.

R. UL (DIR) - Online Certifications Directory; Current Edition.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by each of the affected installers.

1.05 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements for submittal procedures.
- B. Product Data on Insulating Glass Unit, Glazing Unit, and Plastic Film Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
- C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
- D. Samples: Submit one samples 12 by 12 inch in size of glass units, showing coloration.
- E. Samples: Submit 2 inch long bead of glazing sealant, color as selected.
- F. Certificate: Certify that products of this section meet or exceed specified requirements.
- G. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

1.07 FIELD CONDITIONS

- A. Do not install glazing when ambient temperature is less than 40 degrees F.
- B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.08 WARRANTY

- A. See Section 01 7800 Closeout Submittals for additional warranty requirements.
- B. Insulating Glass Units: Provide a five (5) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including providing products to replace failed units.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Float Glass Manufacturers:
 - 1. Guardian Glass, LLC; ____: www.guardianglass.com/#sle.
 - 2. Pilkington North America Inc; _____: www.pilkington.com/na/#sle.
 - 3. Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle.
- B. Mirrored Glass Manufacturers:
 - 1. Pilkington North America Inc; Pilkington Mirropane Transparent Mirror: www.pilkington.com/na/#sle.
 - 2. Substitutions: See Section 01 6000 Product Requirements.

2.02 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

- A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
 - 1. Design Pressure: Calculated in accordance with ASCE 7.
 - 2. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.

- 3. Seismic Loads: Design and size glazing components to withstand seismic loads and sway displacement in accordance with the requirements of ASCE 7
- 4. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
- 5. Glass thicknesses listed are minimum.
- B. Weather-Resistive Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure water-resistive barrier, vapor retarder, and/or air barrier.
 - 1. In conjunction with weather barrier related materials described in other sections, as follows:
 - a. Water-Resistive Barriers: See Section 07 2500.
 - 2. To maintain a continuous vapor retarder and/or air barrier throughout glazed assembly from glass pane to heel bead of glazing sealant.
- C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
 - 1. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
 - 2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
 - 3. Solar Optical Properties: Comply with NFRC 300 test method.

2.03 GLASS MATERIALS

- A. Float Glass: Provide float glass based glazing unless otherwise indicated.
 - 1. Annealed Type: ASTM C1036, Type I Transparent Flat, Class 1 Clear, Quality Q3.
 - 2. Kind HS Heat-Strengthened Type: Complies with ASTM C1048.
 - 3. Kind FT Fully Tempered Type: Complies with ASTM C1048.
 - 4. Fully Tempered Safety Glass: Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.
 - 5. Thicknesses: As indicated; provide greater thickness as required for exterior glazing wind load design.

2.04 INSULATING GLASS UNITS

- A. Manufacturers:
 - 1. Glass: Any of the manufacturers specified for float glass.
- B. Insulating Glass Units: Types as indicated.
 - 1. Durability: Certified by an independent testing agency to comply with ASTM E2190.
 - Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
 - 3. Metal-Edge Spacers: Aluminum, bent and soldered corners.
 - 4. Spacer Color: Bronze.
 - 5. Edge Seal:
 - a. Dual-Sealed System: Provide polyisobutylene sealant as primary seal applied between spacer and glass panes, and silicone, polysulfide, or polyurethane sealant as secondary seal applied around perimeter.
 - 6. Color: Black.
 - 7. Purge interpane space with dry air, hermetically sealed.
 - 8. Capillary Tubes: Provide tubes from air space for insulating glass units without inert type gas that have a change of altitude greater than 2500 feet between point of fabrication and point of installation to permit pressure equalization of air space.
 - a. Breather Tubes: Seal or crimp breather tubes upon installation in accordance with insulating glass fabricator's requirements.
 - b. Inert gas may be installed in the field into air space in accordance with insulating glass fabricator's and installer's requirements.
- C. Type IG-1 Insulating Glass Units: Vision glass, double glazed.

- 1. Applications: Exterior glazing unless otherwise indicated.
- 2. Space between lites filled with air.
- 3. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 - a. Tint: Clear.
 - b. Coating: Self-cleaning type, on #1 surface.
 - c. Coating: Low-E (passive type), on #2 surface.
- 4. Inboard Lite: Annealed float glass, 1/4 inch thick, minimum. a. Tint: Clear.
- 5. Total Thickness: 1 inch.
- 6. Thermal Transmittance (U-Value), Summer Center of Glass: 26, nominal.
- 7. Visible Light Transmittance (VLT): 32% to 64% percent, nominal.
- 8. Solar Heat Gain Coefficient (SHGC): 0.19 to 0.27, nominal.
- D. Type IG-3 Insulating Glass Units: Spandrel glazing.
 - 1. Applications: Exterior spandrel glazing unless otherwise indicated.
 - 2. Space between lites filled with air.
 - 3. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 - a. Tint: Clear.
 - b. Coating: Same as on vision units, on #2 surface.
 - 4. Inboard Lite: Heat-strengthened float glass, 1/4 inch thick.
 - a. Tint: Clear.
 - b. Opacifier Color: as selected by architect from manufactures full range.
 - 5. Total Thickness: 1 inch.
 - 6. Thermal Transmittance (U-Value), Summer Center of Glass: _____, nominal.
- E. Type IG-5 Insulating Glass Units: Safety glazing.
 - 1. Applications:
 - a. Glazed lites in exterior doors.
 - b. Glazed sidelights and panels next to doors.
 - c. Other locations required by applicable federal, state, and local codes and regulations.
 - d. Other locations indicated on drawings.
 - 2. Space between lites filled with air.
 - 3. Glass Type: Same as Type IG-1 except use fully tempered float glass for both outboard and inboard lites.
 - 4. Tint: Clear.
 - 5. Total Thickness: 1 inch.
 - 6. Thermal Transmittance (U-Value), Summer Center of Glass: 26, nominal.
 - 7. Visible Light Transmittance (VLT): 32% to 64% percent, nominal.
 - 8. Solar Heat Gain Coefficient (SHGC): 0.19 to 0.27, nominal.
 - 9. Visible Light Reflectance, Outside: 64 percent, nominal.
- F. Type IG-6 Insulating Glass Units: Obscured glass and Vision glass, double glazed.
 - 1. Applications: Exterior glazing unless otherwise indicated. To be installed at exterior windows of toilet rooms and locker rooms.
 - 2. Space between lites filled with air.
 - 3. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 - a. Tint: Clear.
 - b. Coating: Self-cleaning type, on #1 surface.
 - c. Coating: Low-E (passive type), on #2 surface.
 - 4. Inboard Lite: Obscured float glass, 1/4 inch thick, minimum. a. Tint: Clear.
 - 5. Total Thickness: 1 inch.
 - 6. Thermal Transmittance (U-Value), Summer Center of Glass: 26, nominal.
 - 7. Visible Light Transmittance (VLT): 32% to 64% percent, nominal.
 - 8. Solar Heat Gain Coefficient (SHGC): 0.19 to 0.27, nominal.

2.05 BASIS OF DESIGN - INSULATING GLASS UNITS

- A. Basis of Design Insulating Glass Units: Vision glazing, with low-e coating.
 - 1. Applications: Exterior insulating glass glazing unless otherwise indicated.
 - 2. Space between lites filled with air.
 - 3. Total Thickness: 1 inch.
 - 4. Thermal Transmittance (U-Value), Summer Center of Glass: 26, nominal.
 - 5. Visible Light Transmittance (VLT): 32% to 64% percent, nominal.
 - 6. Solar Heat Gain Coefficient (SHGC): 0.19 to 0.27, nominal.
 - 7. Visible Light Reflectance, Outside: 64 percent, nominal.
 - 8. Glazing Method: Dry glazing method, gasket glazing.
 - 9. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
 - 10. Spacer Color: Black.
 - 11. Edge Seal:
 - 12. Color: Black.
 - 13. Purge interpane space with dry air, hermetically sealed.
 - 14. Basis of Design Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle.
 - 15. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
 - a. Low-E Coating: Vitro Architectural Glass (formerly PPG Glass) Solarban 70 glass on #2 surface.
 - b. Glass: Clear.
 - 16. Inboard Lite: Heat-strengthened float glass, 1/4 inch thick.
 - 17. Other Manufacturers: Provide either the product identified as "Basis of Design" or an equivalent product of another acceptable manufacturer.
 - 18. Substitution Procedures: See Section 01 6000 Product Requirements.

2.06 GLAZING UNITS

- A. Type G-2 Monolithic Interior Vision Glazing:
 - 1. Applications: Interior glazing unless otherwise indicated.
 - 2. Glass Type: Annealed float glass.
 - 3. Tint: Clear.
 - 4. Thickness: 1/4 inch, nominal.
- B. Type G-3 Monolithic Safety Glazing: Non-fire-rated.
 - 1. Applications:
 - a. Glazed lites in doors, except fire doors.
 - b. Glazed sidelights to doors, except in fire-rated walls and partitions.
 - c. Other locations required by applicable federal, state, and local codes and regulations.
 - d. Other locations indicated on drawings.
 - 2. Glass Type: Fully tempered safety glass as specified.
 - 3. Tint: Clear.
 - 4. Thickness: 1/4 inch, nominal.
 - 5. Manufacturers:
 - a. Capital Glass; www.capitolglassco.com.
 - b. Substitutions: See Section 01 6000 Product Requirements.
- C. Type M-1 Transparent One-Way Mirror: Mirror quality float glass with pyrolytic (hard coat) type coating located on high light level surface of glass; ASTM C1376.
 - 1. Applications: Locations as indicated on drawings.
 - 2. Thickness: 1/4 inch.
 - 3. Glass Tint: Clear .
 - 4. Glass Type: Fully tempered.
 - 5. Manufacturers:

- a. Pilkington North America Inc; Pilkington Mirropane Transparent Mirror: www.pilkington.com/na/#sle.
- b. Substitutions: See Section 01 6000 Product Requirements.

2.07 GLAZING COMPOUNDS

- A. Type GC-2 Butyl Sealant: Single component; ASTM C920 Grade NS, Class 12-1/2, Uses M and A, Shore A hardness of 10 to 20; black color.
- B. Type GC-5 Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; nonbleeding, nonstaining; ASTM C920 Type S, Grade NS, Class 25, Uses M, A, and G; with cured Shore A hardness range of 15 to 25; _____ color.
- C. Manufacturers:
 - 1. Dow Corning Corporation: www.dowcorning.com/construction/#sle.Dow Corning Corporation: www.dowcorning.com/construction/#sle.
 - 2. Tremco Commercial Sealants & Waterproofing; Proglaze: www.tremcosealants.com/#sle.
 - 3. Substitutions: See Section 01 6000 Product Requirements.

2.08 ACCESSORIES

- A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.
- B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Continuous by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.
- C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.
 - 1. Width: As required for application.
 - 2. Thickness: As required for application.
 - 3. Spacer Rod Diameter: As required for application.
- D. Glazing Splines: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.
- E. Glazing Clips: Manufacturer's standard type.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

- A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
- B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.
- C. Verify that sealing between joints of glass framing members has been completed effectively.

3.02 PREPARATION

- A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.
- B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.

- B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.
- C. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.
- D. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, and paint.

3.04 INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)

- A. Application Exterior and/or Interior Glazed: Set glazing infills from either the exterior or the interior of the building.
- B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
- D. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

3.05 INSTALLATION - WET/DRY GLAZING METHOD (PREFORMED TAPE AND SEALANT)

- A. Application Exterior Glazed: Set glazing infills from the exterior of the building.
- B. Cut glazing tape to length and set against permanent stops, 3/16 inch below sight line. Seal corners by butting tape and dabbing with butyl sealant.
- C. Apply heel bead of butyl sealant along intersection of permanent stop with frame ensuring full perimeter seal between glass and frame to complete the continuity of the air and vapor seal.
- D. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- E. Rest glazing on setting blocks and push against tape and heel bead of sealant with sufficient pressure to attain full contact at perimeter of pane or glass unit.
- F. Install removable stops, with spacer strips inserted between glazing and applied stops 1/4 inch below sight lines.
 - 1. Place glazing tape on glazing pane of unit with tape flush with sight line.
- G. Fill gap between glazing and stop with _____ type sealant to depth equal to bite of frame on glazing, but not more than 3/8 inch below sight line.
- H. Apply cap bead of ______ type sealant along void between the stop and the glazing, to uniform line, flush with sight line. Tool or wipe sealant surface smooth.

3.06 INSTALLATION - WET/DRY GLAZING METHOD (TAPE AND SEALANT)

- A. Application Interior Glazed: Set glazing infills from the interior of the building.
- B. Cut glazing tape to length and install against permanent stops, projecting 1/16 inch above sight line.
- C. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- D. Rest glazing on setting blocks and push against tape to ensure full contact at perimeter of pane or unit.
- E. Install removable stops, spacer shims inserted between glazing and applied stops at 24 inch intervals, 1/4 inch below sight line.
- F. Fill gaps between pane and applied stop with _____ type sealant to depth equal to bite on glazing, to uniform and level line.
- G. Carefully trim protruding tape with knife.

3.07 CLEANING

- A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
- B. Remove nonpermanent labels immediately after glazing installation is complete.

- C. Clean glass and adjacent surfaces after sealants are fully cured.
- D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

3.08 PROTECTION

A. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION 08 8000

SECTION 09 2116 GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Acoustic sound putty packs
- B. Gypsum sheathing.
- C. Gypsum wallboard.

1.02 RELATED REQUIREMENTS

- A. Section 01 6116 Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 06 1000 Rough Carpentry: Wood blocking product and execution requirements.
- C. Section 07 2100 Thermal Insulation: Acoustic insulation.
- D. Section 07 2500 Weather Barriers: Water-resistive barrier over sheathing.
- E. Section 07 8400 Firestopping: Top-of-wall assemblies at fire-resistance-rated walls.
- F. Section 07 9200 Joint Sealants: Sealing acoustical gaps in construction other than gypsum board or plaster work.

1.03 REFERENCE STANDARDS

- A. AISI S100 North American Specification for the Design of Cold-Formed Steel Structural Members; 2016, with Supplement (2020).
- B. AISI S220 North American Standard for Cold-Formed Steel Nonstructural Framing; 2020.
- C. AISI S240 North American Standard for Cold-Formed Steel Structural Framing; 2015, with Errata (2020).
- D. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- E. ASTM A1003/A1003M Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members; 2015.
- F. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board; 2023.
- G. ASTM C1177/C1177M Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2017.
- H. ASTM C1280 Standard Specification for Application of Exterior Gypsum Panel Products for Use as Sheathing; 2018 (Reapproved 2023).
- I. ASTM C1396/C1396M Standard Specification for Gypsum Board; 2017.
- J. ASTM C1629/C1629M Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels; 2023.
- K. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.
- L. GA-216 Application and Finishing of Gypsum Panel Products; 2021.
- M. GA-600 Fire Resistance and Sound Control Design Manual; 2021.

1.04 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements for submittal procedures.
- B. Product Data:
 - 1. Provide manufacturer's data on partition head to structure connectors, showing compliance with requirements.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing gypsum board installation and finishing, with minimum five years of experience.

PART 2 PRODUCTS

2.01 METAL FRAMING MATERIALS

- A. Steel Sheet: ASTM A1003/A1003M, subject to the ductility limitations indicated in AISI S220 or equivalent.
- B. Manufacturers Metal Framing, Connectors, and Accessories:
 - 1. Clarkwestern Dietrich Building Systems LLC; None N/A: www.clarkdietrich.com/#sle.
 - 2. Jaimes Industries; None N/A: www.jaimesind.com/#sle.
 - 3. Marino; None N/A: www.marinoware.com/#sle.
 - 4. Phillips Manufacturing Co; None N/A: www.phillipsmfg.com/#sle.
 - 5. SCAFCO Corporation; None N/A: www.scafco.com/#sle.
 - 6. Steel Construction Systems; None N/A: www.steelconsystems.com/#sle.
 - 7. Substitutions: See Section 01 6000 Product Requirements.
- C. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection and prevent rotation of studs while maintaining structural performance of partition.
 - 1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI S100.
 - 2. Material: ASTM A653/A653M steel sheet, SS Grade 50/340, with G60/Z180 hot-dipped galvanized coating.
 - 3. Provide components as listed in ICC Evaluation Service for use in ESR-1042 fire-rated and sound rated at head of partition joint systems indicated on drawings.
 - 4. Deflection, Sound, and Firestop Track:
 - a. Provide mechanical anchorage devices as described above that accommodate deflection while maintaining the fire-rating of the wall assembly.

2.02 BOARD MATERIALS

- A. Manufacturers Gypsum-Based Board:
 - 1. American Gypsum Company; None N/A: www.americangypsum.com/#sle.
 - 2. CertainTeed Corporation; None N/A: www.certainteed.com/#sle.
 - 3. Continental Building Products; None N/A: www.continental-bp.com/#sle.
 - 4. Georgia-Pacific Gypsum; None N/A: www.gpgypsum.com/#sle.
 - 5. National Gypsum Company; None N/A: www.nationalgypsum.com/#sle.
 - 6. PABCO Gypsum; None N/A: www.pabcogypsum.com/#sle.
 - 7. USG Corporation; None N/A: www.usg.com/#sle.
 - 8. Substitutions: See Section 01 6000 Product Requirements.
- B. Impact Resistant Wallboard:
 - 1. Application: Install at wood and metal shops, drama, and weight room.
 - 2. Surface Abrasion: Level 3, minimum, when tested in accordance with ASTM C1629/C1629M.
 - 3. Indentation: Level 1, minimum, when tested in accordance with ASTM C1629/C1629M.
 - 4. Soft Body Impact: Level 3, minimum, when tested in accordance with ASTM C1629/C1629M.
 - 5. Hard Body Impact: Level 2, minimum, when tested in accordance with ASTM C1629/C1629M.
 - 6. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
 - 7. Type: Fire-resistance-rated Type X, UL or WH listed.
 - 8. Thickness: 5/8 inch.
 - 9. Edges: Tapered.
- C. Backing Board For Non-Wet Areas: Water-resistant gypsum backing board as defined in ASTM C1396/C1396M; sizes to minimum joints in place; ends square cut.
 - 1. Application: at all window jambs and sills, restrooms, and within 2 feet of all plumbing fixtures including drinking fountains or electric water coolers.
 - 2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.

- 3. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
- 4. Type X Thickness: 5/8 inch.
- 5. Edges: Tapered.
- 6. Products:
 - a. Gold Bond Building Products, LLC provided by National Gypsum Company; Gold Bond XP Fire-Shield Gypsum Board: www.goldbondbuilding.com/#sle.
 - b. Substitutions: See Section 01 6000 Product Requirements.
- D. Ceiling Board: Special sag resistant gypsum ceiling board as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
 - 1. Application: ceilings in wet areas, unless otherwise indicated.
 - 2. Thickness: 5/8 inch.
 - 3. Edges: Tapered.
- E. Exterior Sheathing Board: Sizes to minimize joints in place; ends square cut.
 - 1. Application: Exterior sheathing, unless otherwise indicated.
 - 2. Glass Mat Faced Sheathing: Glass mat faced gypsum substrate as defined in ASTM C1177/C1177M.
 - 3. Core Type: Regular.
 - 4. Regular Board Thickness: 1/2 inch.
 - 5. Edges: Square.
- F. Exterior Soffit Board: Exterior gypsum soffit board as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
 - 1. Application: Ceilings and soffits in protected exterior areas, unless otherwise indicated.
 - 2. Types: Regular, in locations indicated.
 - 3. Regular Type Thickness: 5/8 inch.
 - 4. Edges: Tapered.
- G. Roof Cover Board
 - 1. Application: Parapets, unless otherwise indicated.
 - 2. Type Thickness: 5/8 inch
 - 3. Products:
 - a. Georgia-Pacific Gypsum; Densdeck Prime, www.gpgypsum.com/#sle.
 - b. Substitutions: See Section 01 6000 Product Requirements
 - 4. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion- resistance provisions in FM Global 4470, designed for fastening substrate board to roof deck.

2.03 GYPSUM BOARD ACCESSORIES

- A. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced. Thickness: 3-1/2" inch.
- B. Acoustic Putty Packs installed at back boxes in sound rated walls and at interior of exterior fured walls. Products by 3M, Hilti, or equivilent.
- C. Water-Resistive Barrier: See Section 07 2500.
- D. Beads, Joint Accessories, and Other Trim: ASTM C1047, galvanized steel or rolled zinc, unless noted otherwise.
 - 1. Corner Beads: Low profile, for 90 degree outside corners.
 - 2. Expansion Joints:
 - a. Type: V-shaped metal with factory-installed protective tape.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

3.02 BOARD INSTALLATION

- A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.
- B. Single-Layer Nonrated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.
- C. Double-Layer Non-Rated: Use gypsum board for first layer, placed parallel to framing or furring members, with ends and edges occurring over firm bearing. Place second layer perpendicular to framing or furring members. Offset joints of second layer from joints of first layer.
- D. Exposed Gypsum Board in Interior Wet Areas: Seal joints, cut edges, and holes with waterresistant sealant.
- E. Exterior Sheathing: Comply with ASTM C1280. Install sheathing vertically, with edges butted tight and ends occurring over firm bearing.
 - 1. Paper-Faced Sheathing: Immediately after installation, protect from weather by application of water-resistive barrier.
- F. Exterior Soffits: Install exterior soffit board perpendicular to framing, with staggered end joints over framing members or other solid backing.

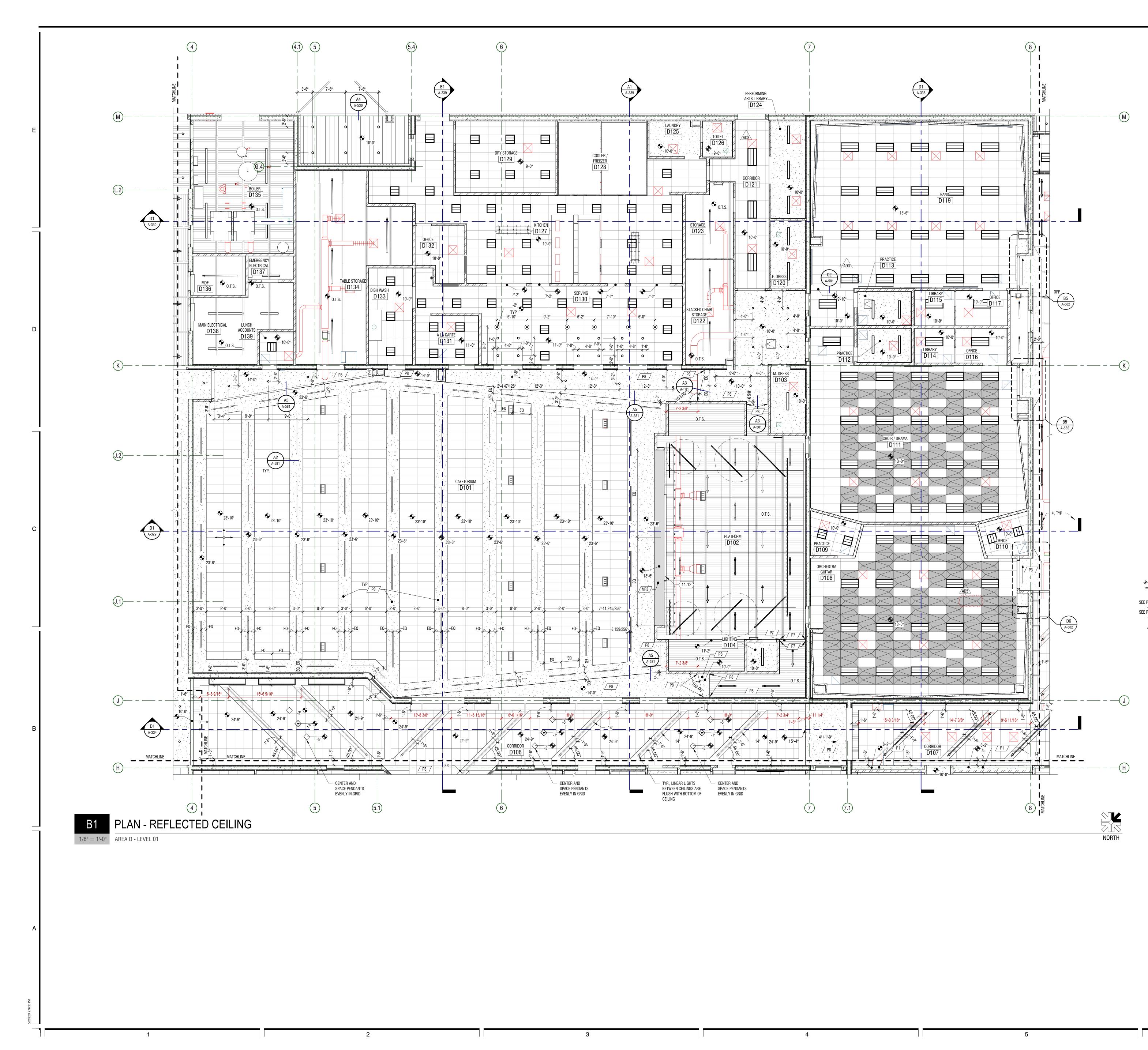
3.03 FINISH AND TEXTURE

- A. Finish Level: Level 4
- B. Texture: None

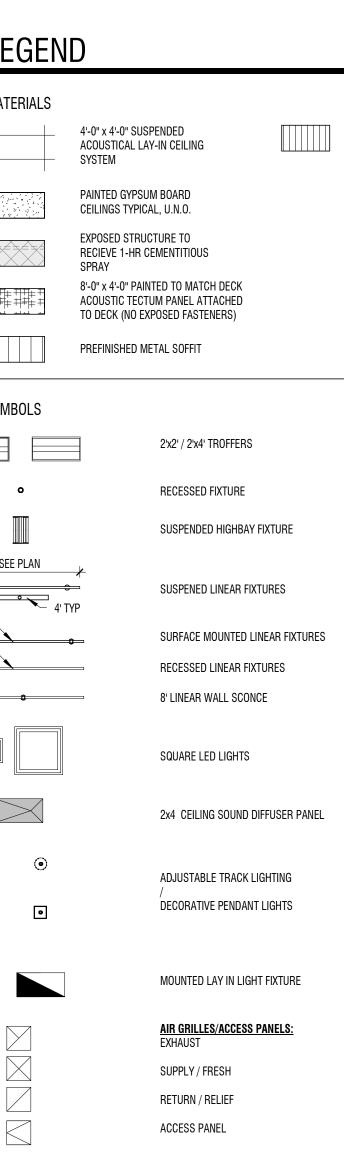
3.04 INSTALLATION OF TRIM AND ACCESSORIES

- A. Control Joints: Place control joints consistent with lines of building spaces and as indicated.
 - 1. Not more than 30 feet apart on walls and ceilings over 50 feet long.
 - 2. At exterior soffits, not more than 30 feet apart in both directions.
- B. Corner Beads: Install at external corners, using longest practical lengths.
- C. Edge Trim: Install at locations where gypsum board abuts dissimilar materials.

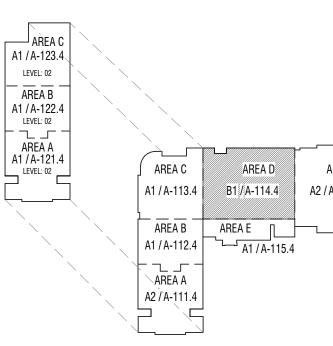
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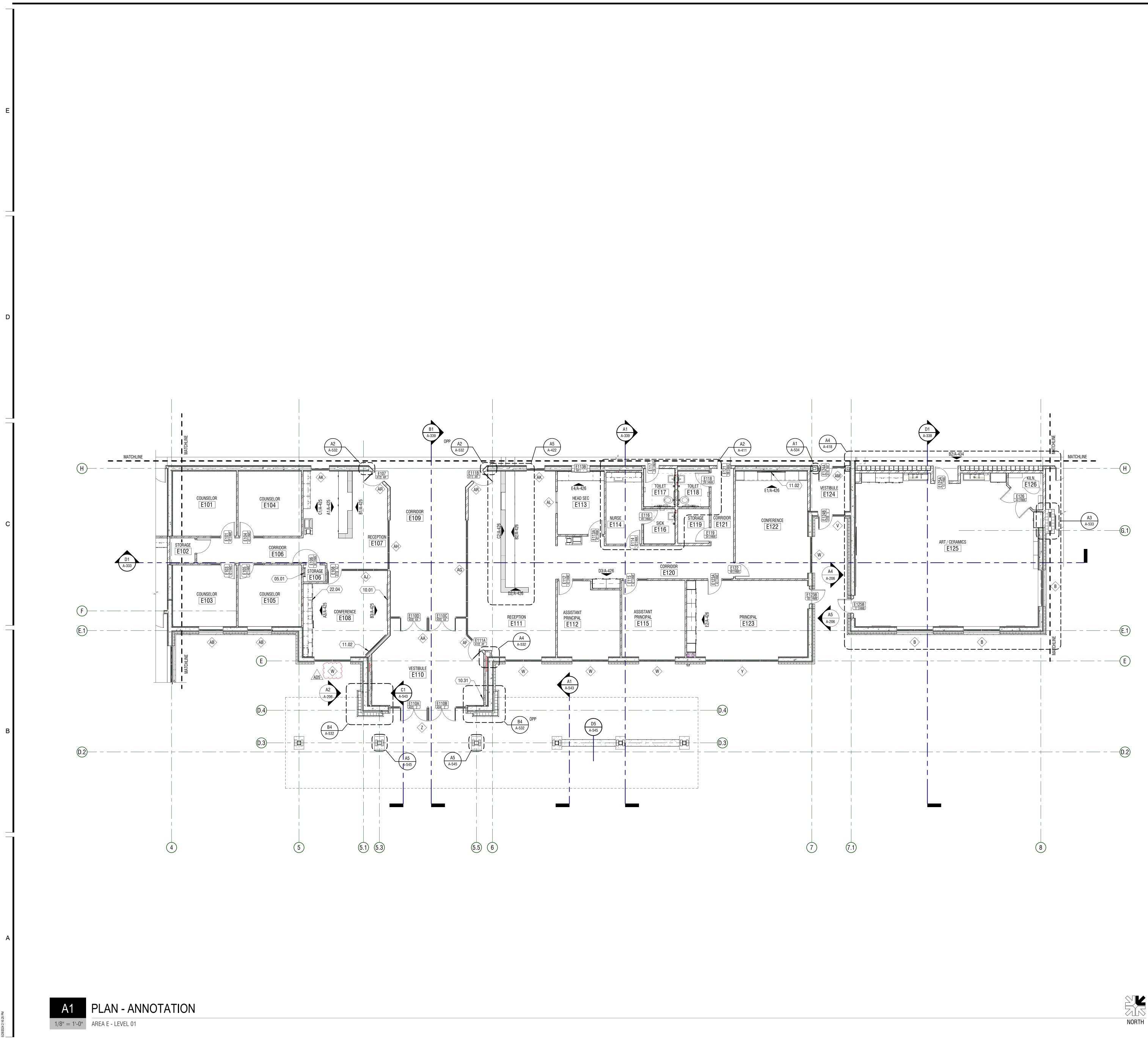


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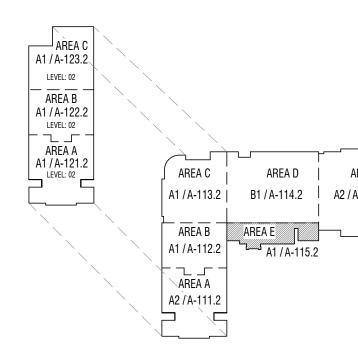






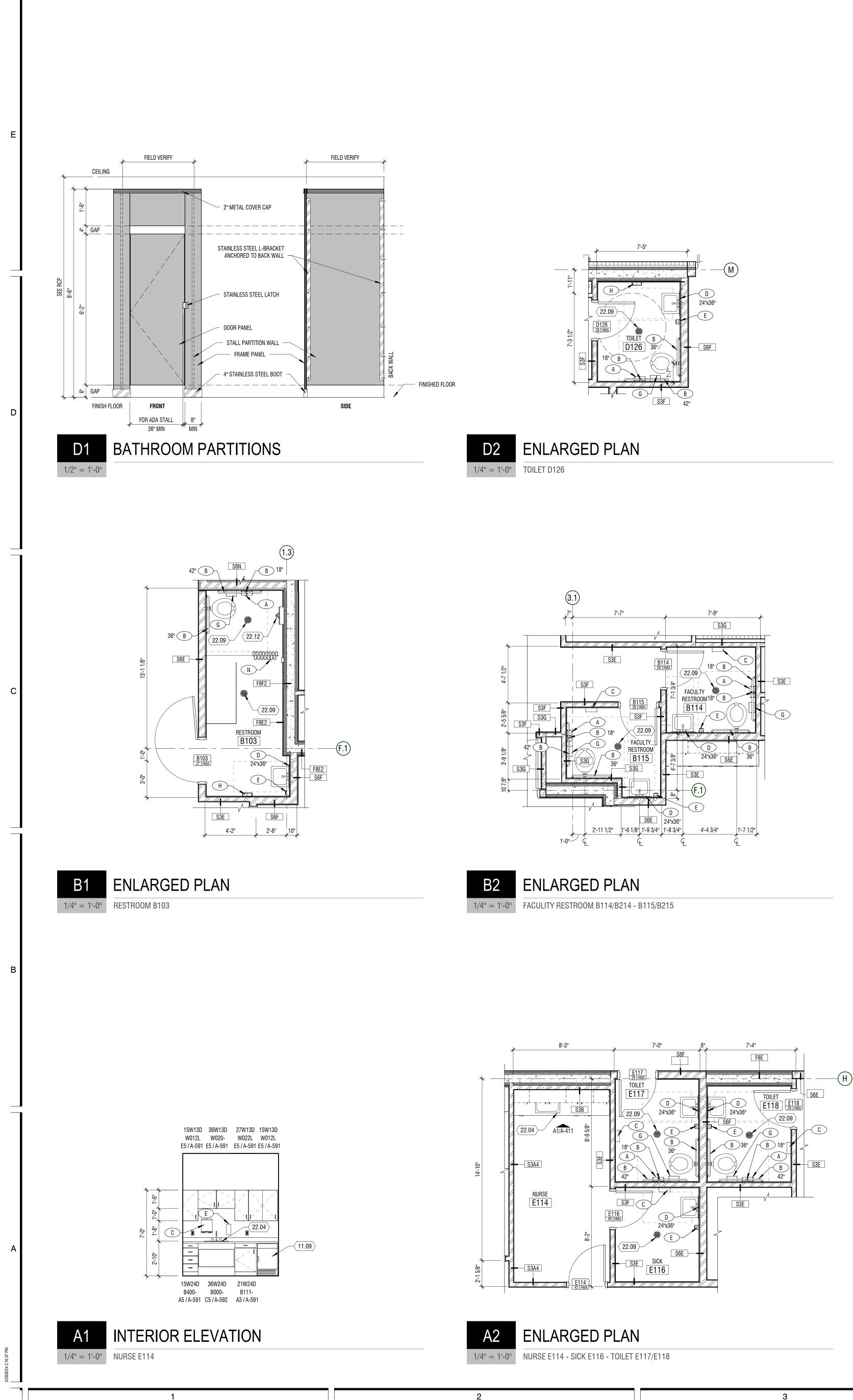


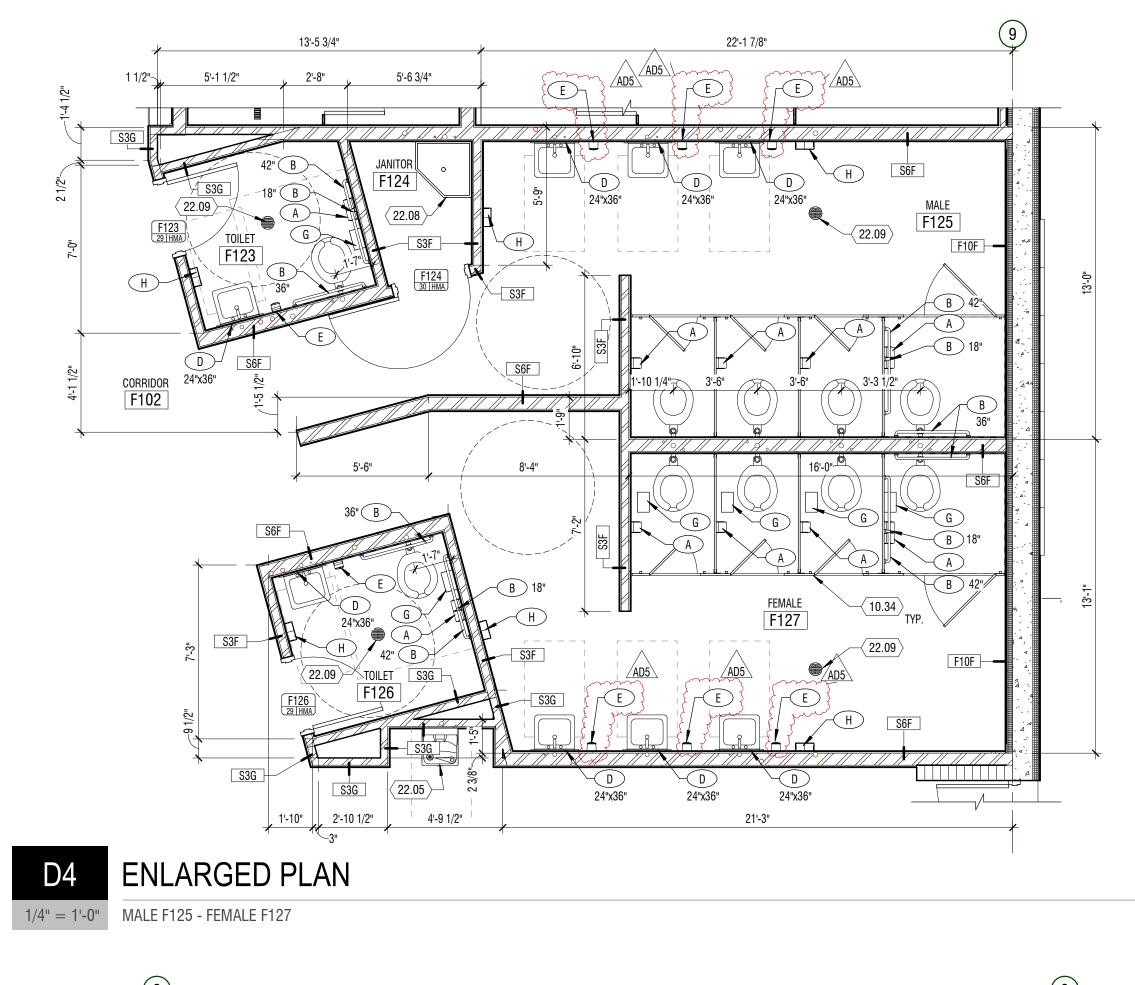
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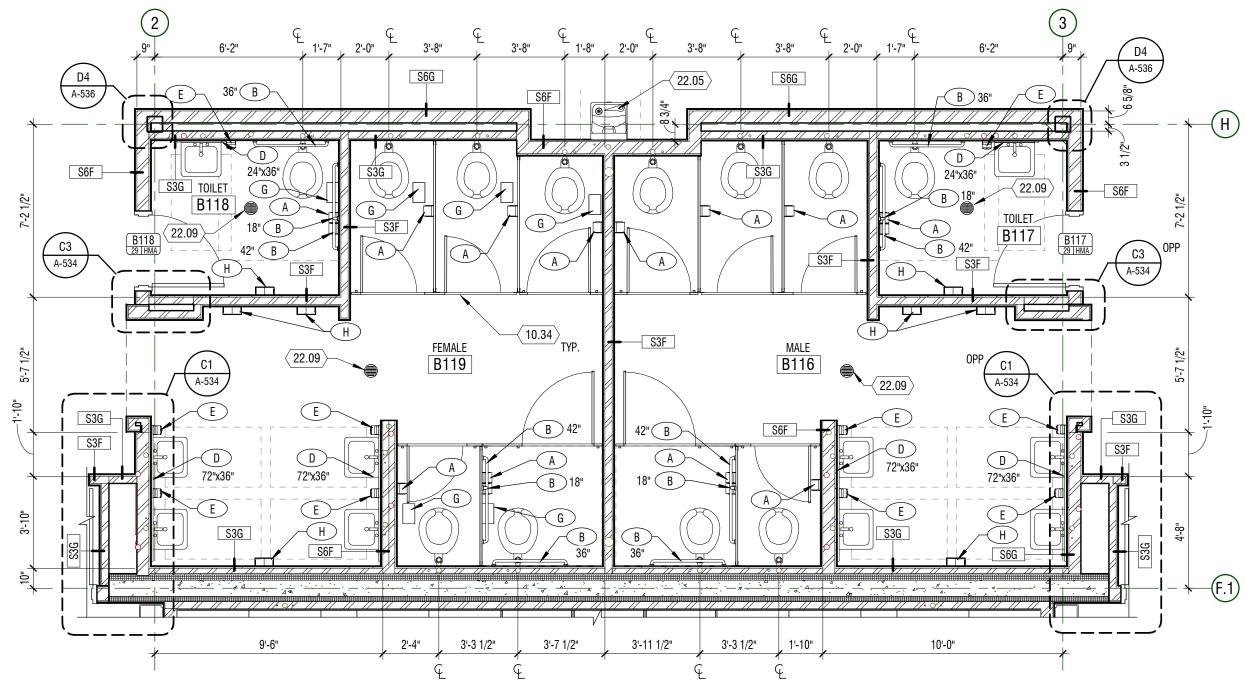


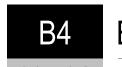
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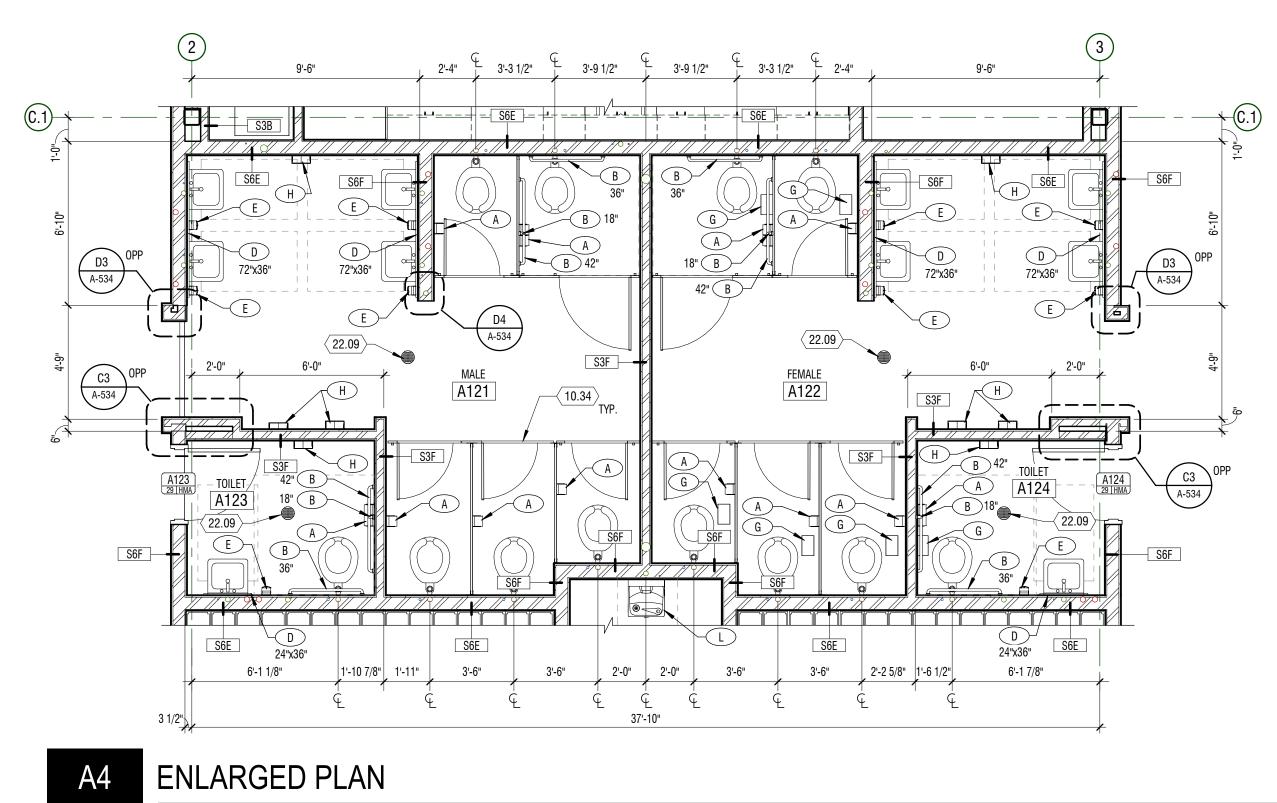






B4 ENLARGED PLAN

1/4" = 1'-0" MALE B116/B216 - FEMALE B119/B219



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1/4" = 1'-0" MALE A121/A221 - FEMALE A122/A222

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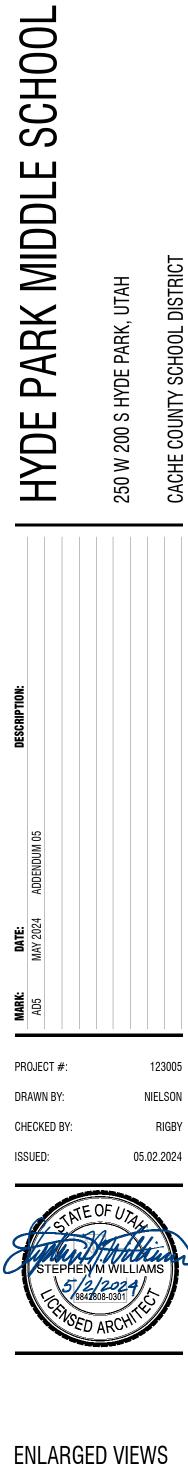
	A	TOILET TISSUE DISPENSER OWNER FURNISHED, CONTRACTOR INSTALLED
	B	GRAB BAR LENGTH INDICATED ON PLAN
	\bigcirc	PAPER TOWEL DISPENSER OWNER FURNISHED, CONTRACTOR INSTALLED
		MIRROR SIZE INDICATED ON PLAN
<u>a de</u>	E	WALL MOUNTED SOAP DISPENSER OWNER FURNISHED, CONTRACTOR INSTALLED
	F	FEMININE NAPKIN VENDOR
	G	FEMININE NAPKIN DISPOSAL
	H	ELECTRIC HAND DRYER
	J	DIAPER CHANGING STATION
	K	DRAIN PIPE PROTECTION
		NOT USED
	M	NOT USED
	\bigcirc	SHOWER CURTAIN
	P	SHOWER SEAT

KEYNOTES

#	
IARK	DESCRIPTION
0.34	PARTITIONS - SEE DETAIL D1/A-411
1.09	DISHWASHER - OWNER PROVIDED, CONTRACTOR INSTALLED
2.04	SINK
2.05	DRINKING FOUNTAIN
2.08	MOP SINK
2.09	FLOOR DRAIN - SLOPE FLOOR TO DRAIN
2.12	SHOWER HEAD

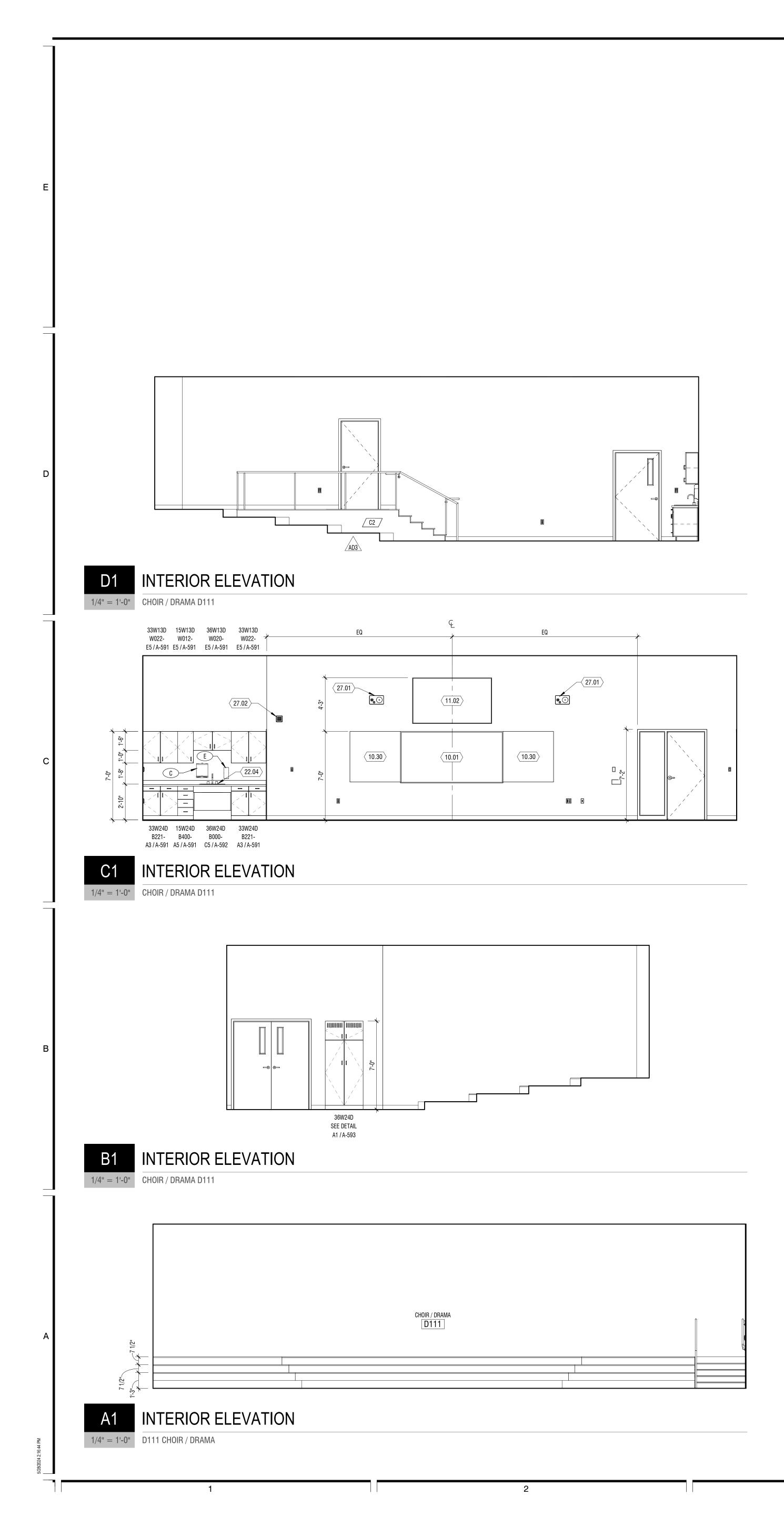


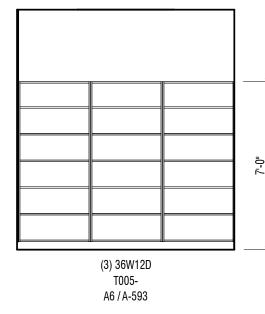




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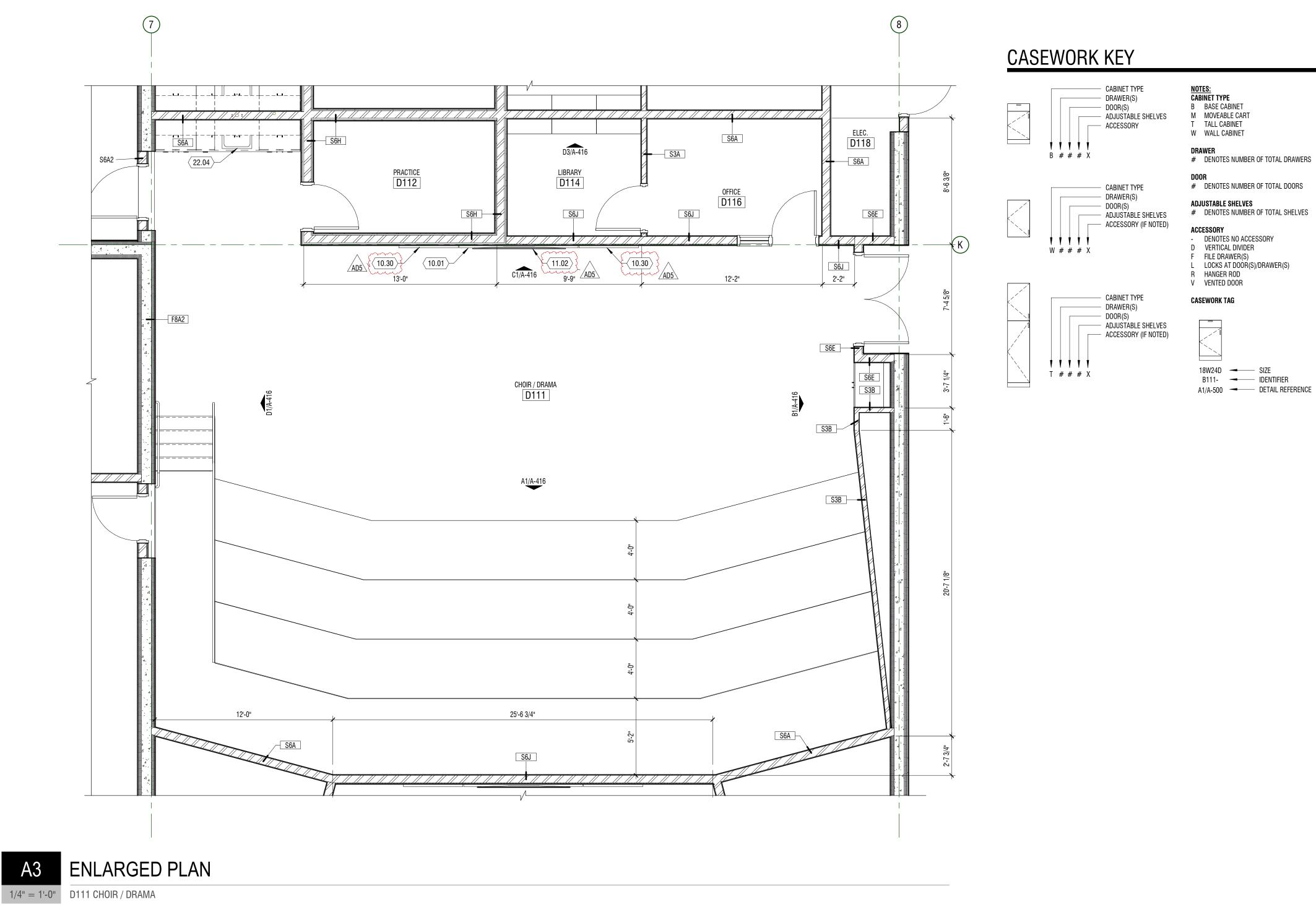


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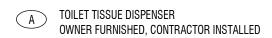
D3 INTERIOR ELEVATION





A3

ACCESSORIES



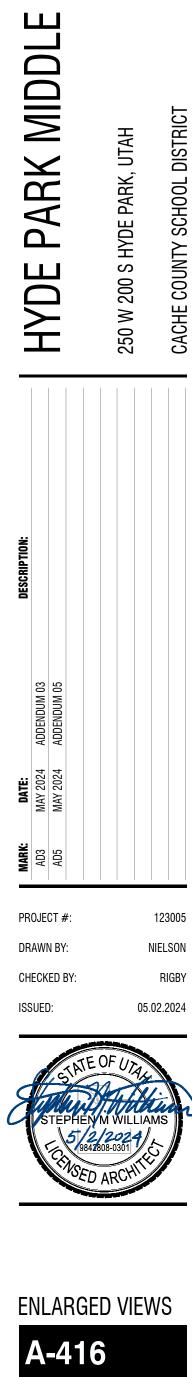
- B GRAB BAR LENGTH INDICATED ON PLAN
- C PAPER TOWEL DISPENSER OWNER FURNISHED, CONTRACTOR INSTALLED
- AD5 D MIRROR SIZE INDICATED ON PLAN
 - D5 WALL MOUNTED SOAP DISPENSER OWNER FURNISHED, CONTRACTOR INSTALLED
 - F FEMININE NAPKIN VENDOR
 - G FEMININE NAPKIN DISPOSAL
 - H ELECTRIC HAND DRYER
 - J DIAPER CHANGING STATION
 - K DRAIN PIPE PROTECTION L NOT USED

 - M NOT USED
 - N SHOWER CURTAIN P SHOWER SEAT

KEYNOTES

(#)	
MARK	DESCRIPTION
10.01	WHITEBOARD 8'-0" X 4'-0". HIDDEN TAKLESS PAPER HOLDER ON TRAY ON BOTTOM
10.30	4'-0" x 4'-0" ACOUSTIC FELT TACK BOARD (FRAMELESS)
11.02	AD5 VALL MOUNTED DIGITAL DISPLAY - SEE DETAIL E1/A-591 FOR M
22.04	SINK
27.01	SPEAKER
27.02	SPEAKER TALKBACK





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SCHOOL

DENOTES NUMBER OF TOTAL SHELVES

L LOCKS AT DOOR(S)/DRAWER(S)

DOOR # DENOTES NUMBER OF TOTAL DOORS

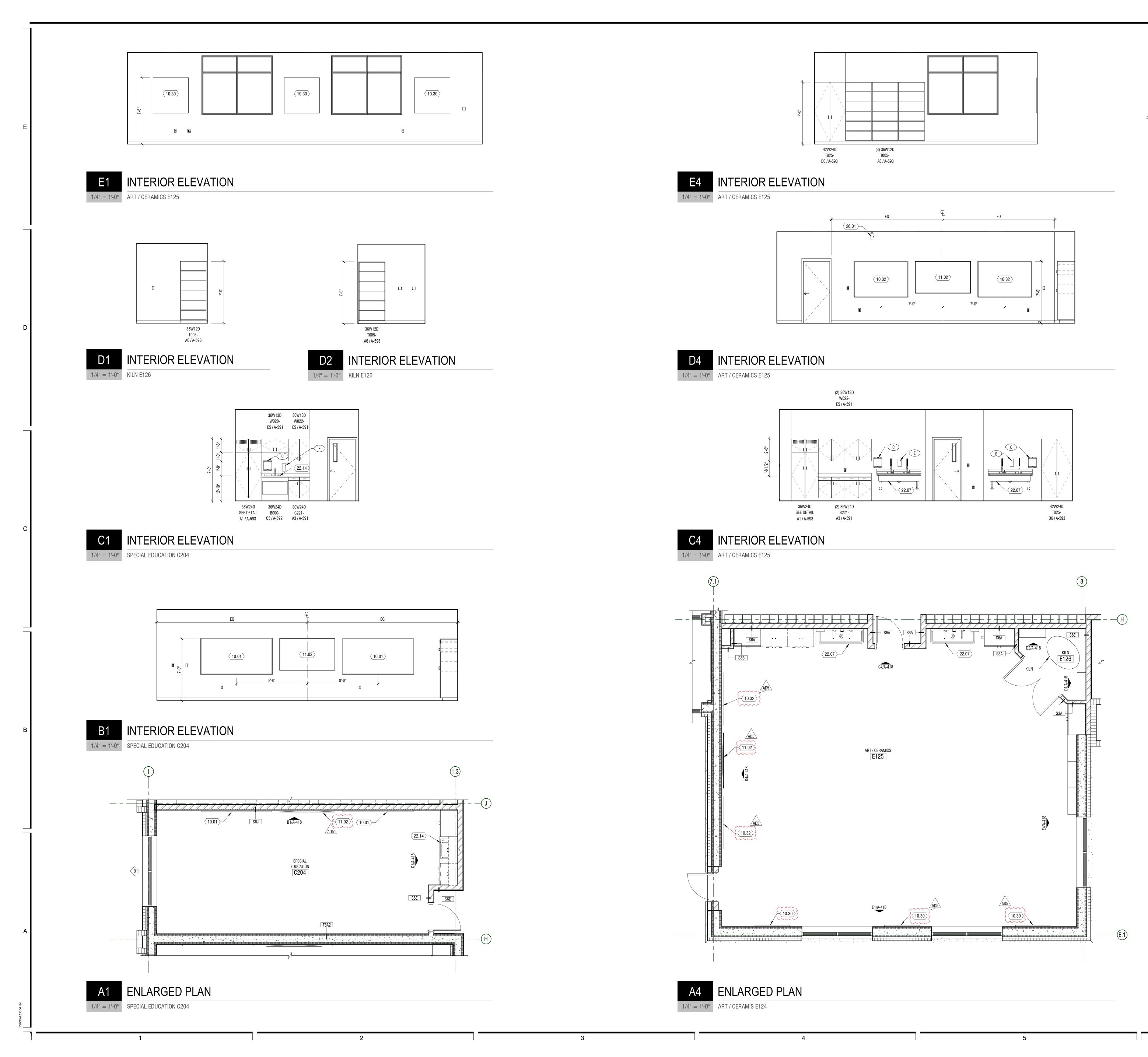
DRAWER # DENOTES NUMBER OF TOTAL DRAWERS

R MOUNTING OWNER

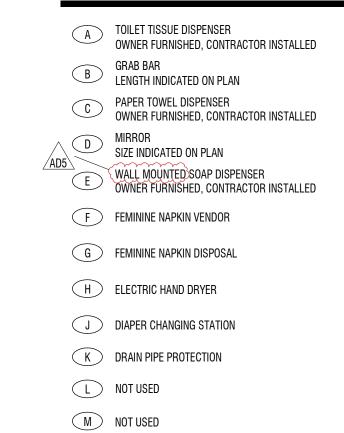
IN TOP AND MARKER



Architects LOGAN UT 84321 TLAKE CITY UT 84103 _____ St Ð design 255 SOUTH 300 WEST 795 NORTH 400 WEST



ACCESSORIES



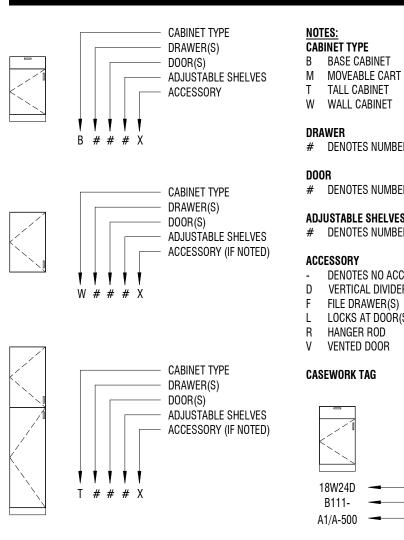
KEYNOTES

N SHOWER CURTAIN

P SHOWER SEAT

(#)	\rangle
MARK	DESCRIPTION
10.01	WHITEBOARD 8'-0" X 4'-0". HIDDEN TAKLESS PAPER HOLDER ON TO TRAY ON BOTTOM
10.30	4'-0" x 4'-0" ACOUSTIC FELT TACK BOARD (FRAMELESS)
10.32	WHITEBOARD 6'-0" X 4'-0". HIDDEN TAKLESS PAPER HOLDER ON TO TRAY ON BOTTOM
11.02	AD5 WALL MOUNTED DIGITAL DISPLAY - SEE DETAIL E1/A-591 FOR MOU PROVIDED, CONTRACTOR INSTALLED
22.07	TROUGH WASH SINK
22.14	SINK W/BUBBLER
26.01	CEILING MOUNTED POWER CORD DROP - SEE ELECTRICAL

CASEWORK KEY



		design west architects	255 SOUTH 300 WEST LOGAN UT 84321 795 NORTH 400 WEST SALT LAKE CITY UT 84103
P AND MARKER P AND MARKER MING OWNER MING OWNER MI		INDE PARK MIDDLE SCHOOL	250 W 200 S HYDE PARK, UTAH
	CONSTRUCTION DOCUMENTS	STEPHEN 5	