design west | architects

	date:	5.28.24
	project:	Nibley 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	 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.
05.06	 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.
05.07	 08 4313 – Aluminum-framed Storefronts Removed doors E104A & E104B from thermal doors.

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05.08	 08 8000 – Glazing 2.04-2.06 - Changed callouts from grey tint to clear glazing
05.09	 09 2119 – Gypsum Board Assemblies 3.03 Finish and Texture paragraph now added and clarifies design intent.
05.10	 A-114.4 – AREA D – REFLECTED CEILING PLAN Removed finish tag P1 in D108
05.11	 A-115.2 – PLAN – LEVEL 01 AREA E - ANNOTATION Frame Type X removed and corrected to Frame Type W
05.12	 A-411 – ENLARGED VIEWS D4 Soap Dispensers added and tagged. Accessories legend updated on item "E" to "wall mounted soap dispenser"
05.13	 A-416 – ENLARGED VIEWS A3 – Enlarged Plan keynotes for the tack boards and digital display have been corrected.
05.14	 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 Contractor

Date



NMS 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:	Nibley Middle School	
SUBJECT:	Addendum #5 – Bid Package #2	

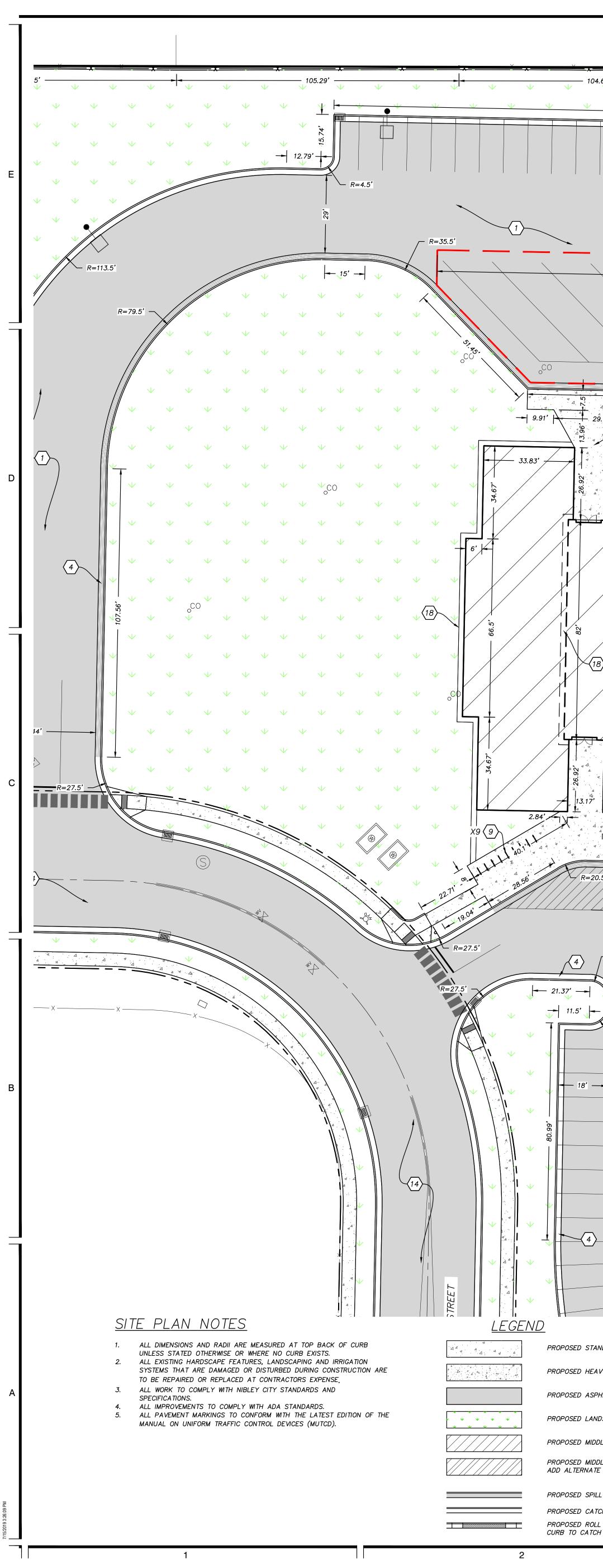
The following additions are provided for Bid Package #2 based on questions provided to the Owner/Architect/Engineers:

- 1. Civil Site Plan Northwest, Sheet C-203.
 - **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

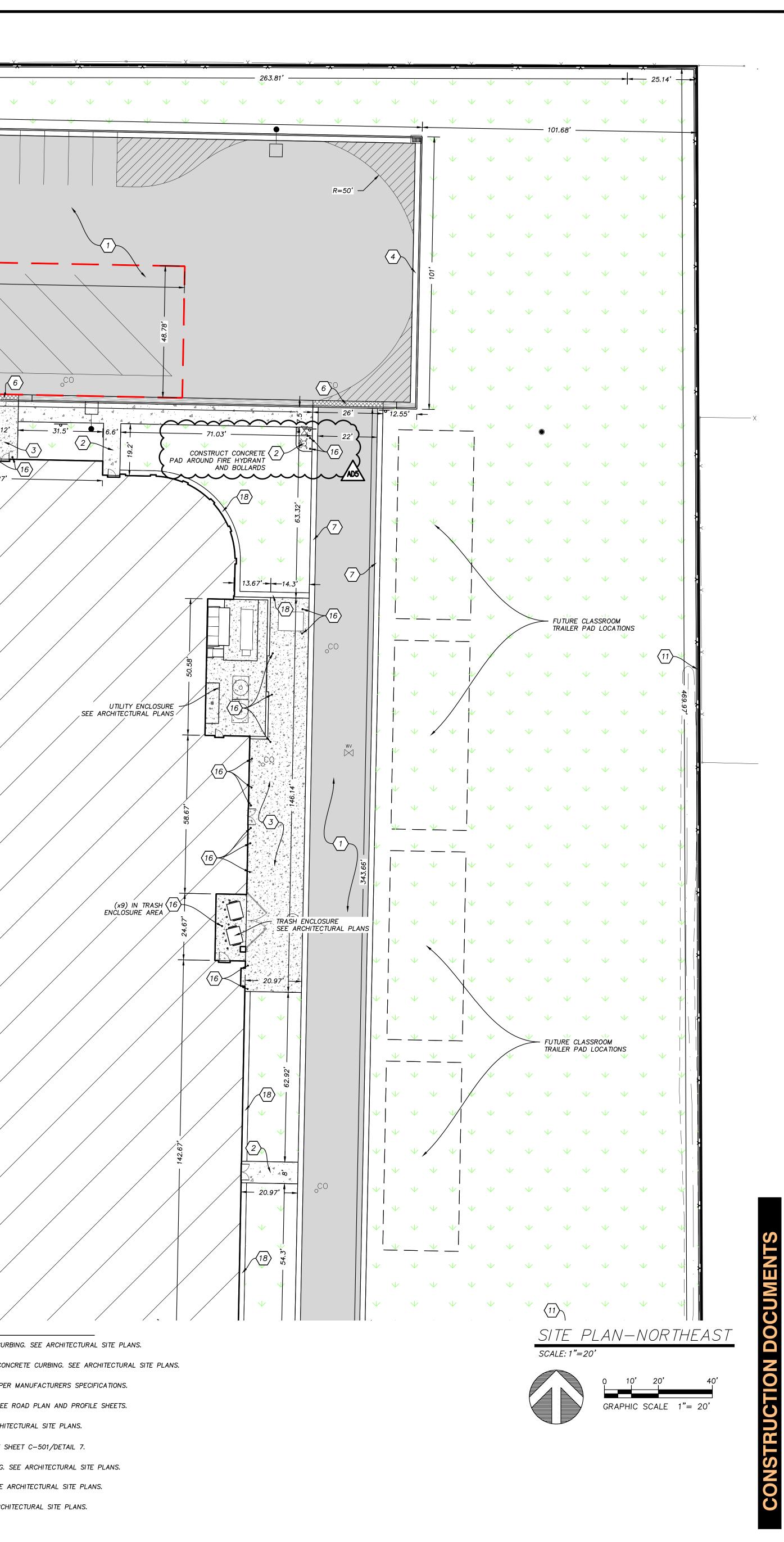
Addendum #5 is hereby issued on May 28, 2024 Cache-Landmark Engineering

Jeremy Jensen E.I.T. Project Manager

Attachment - Civil Sheets C-202 and C-204



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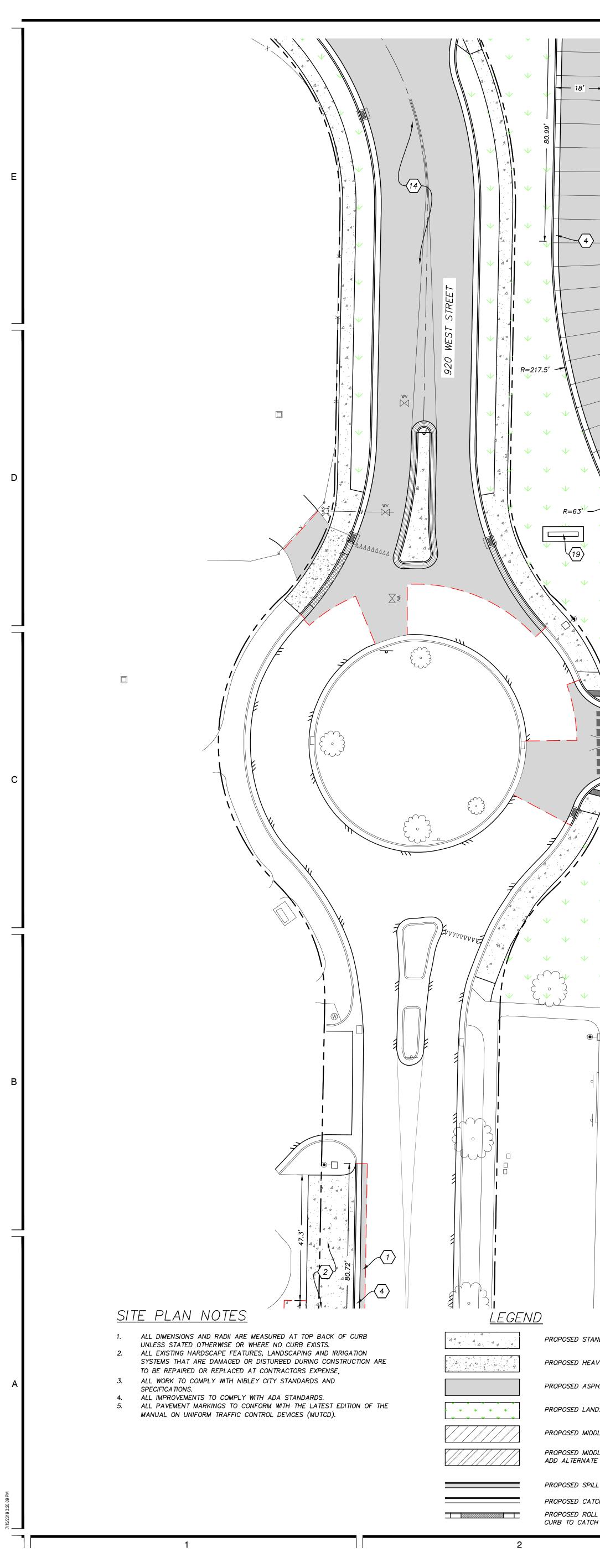


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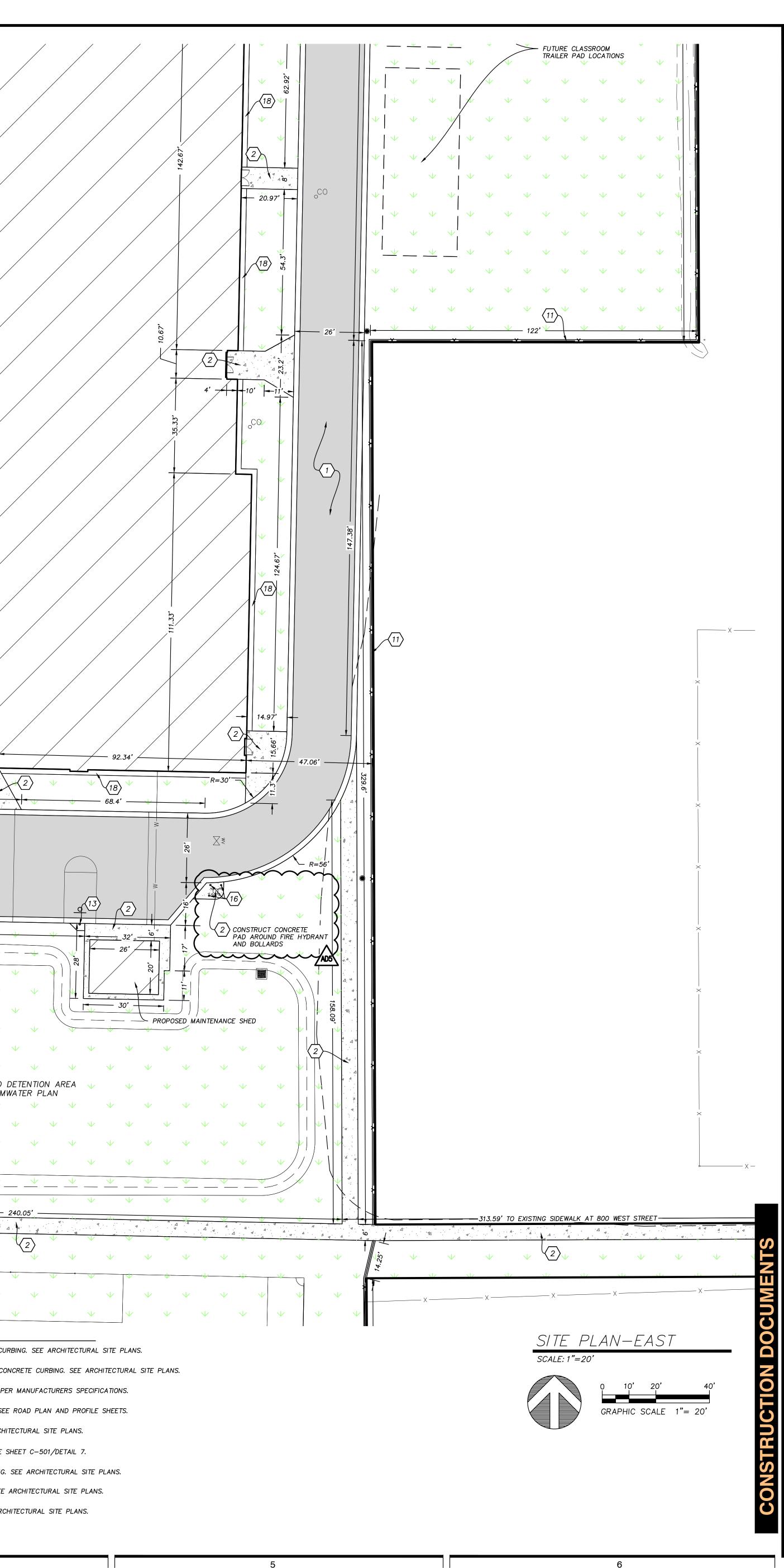
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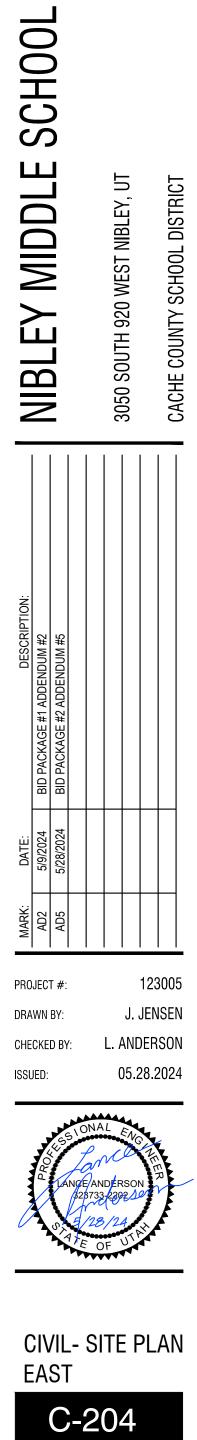


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MEMORANDUM

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:

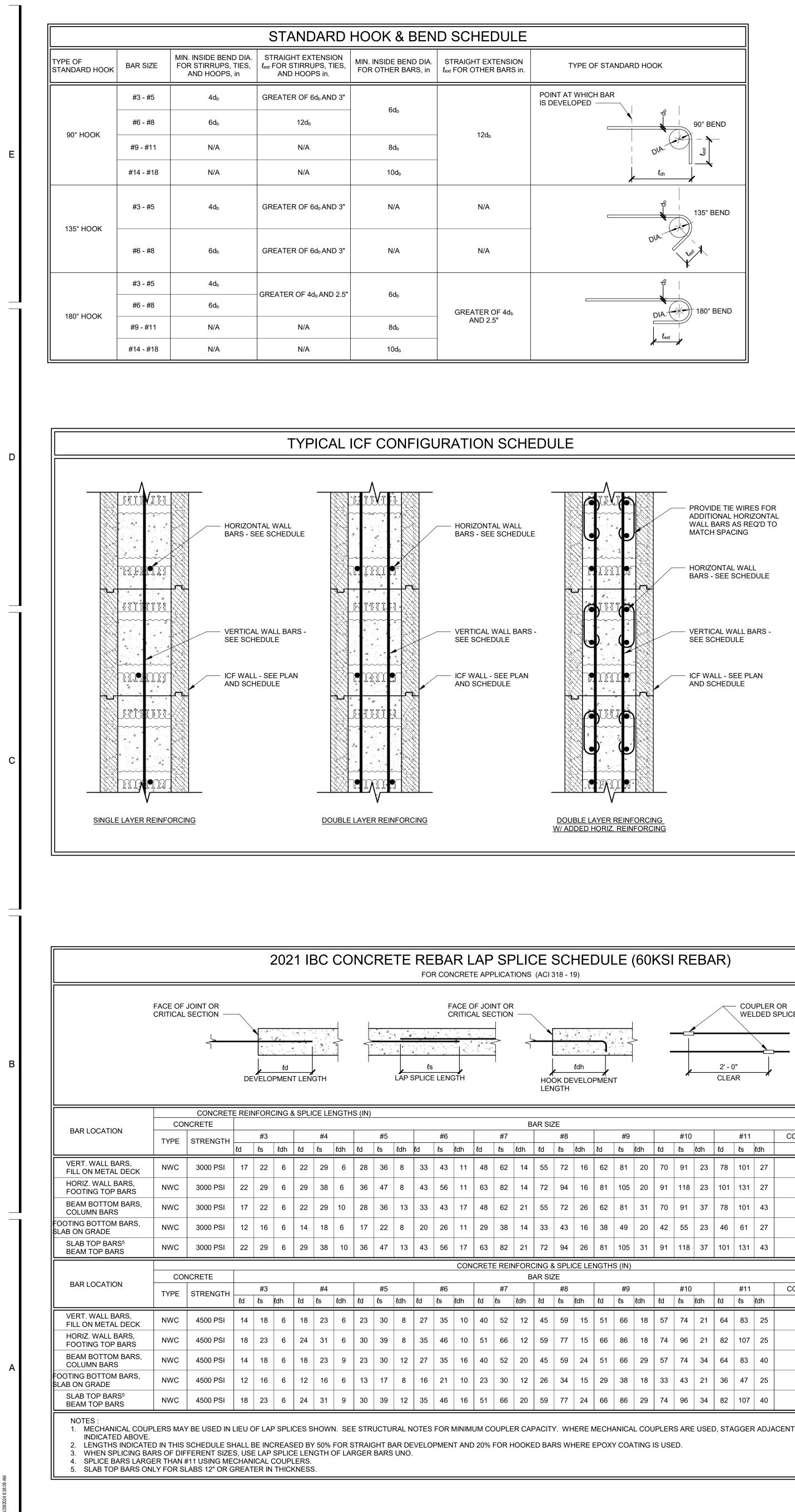
Sheet S-011:

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

Copy to: Design West Architects

Filing: (X) Project File () Other

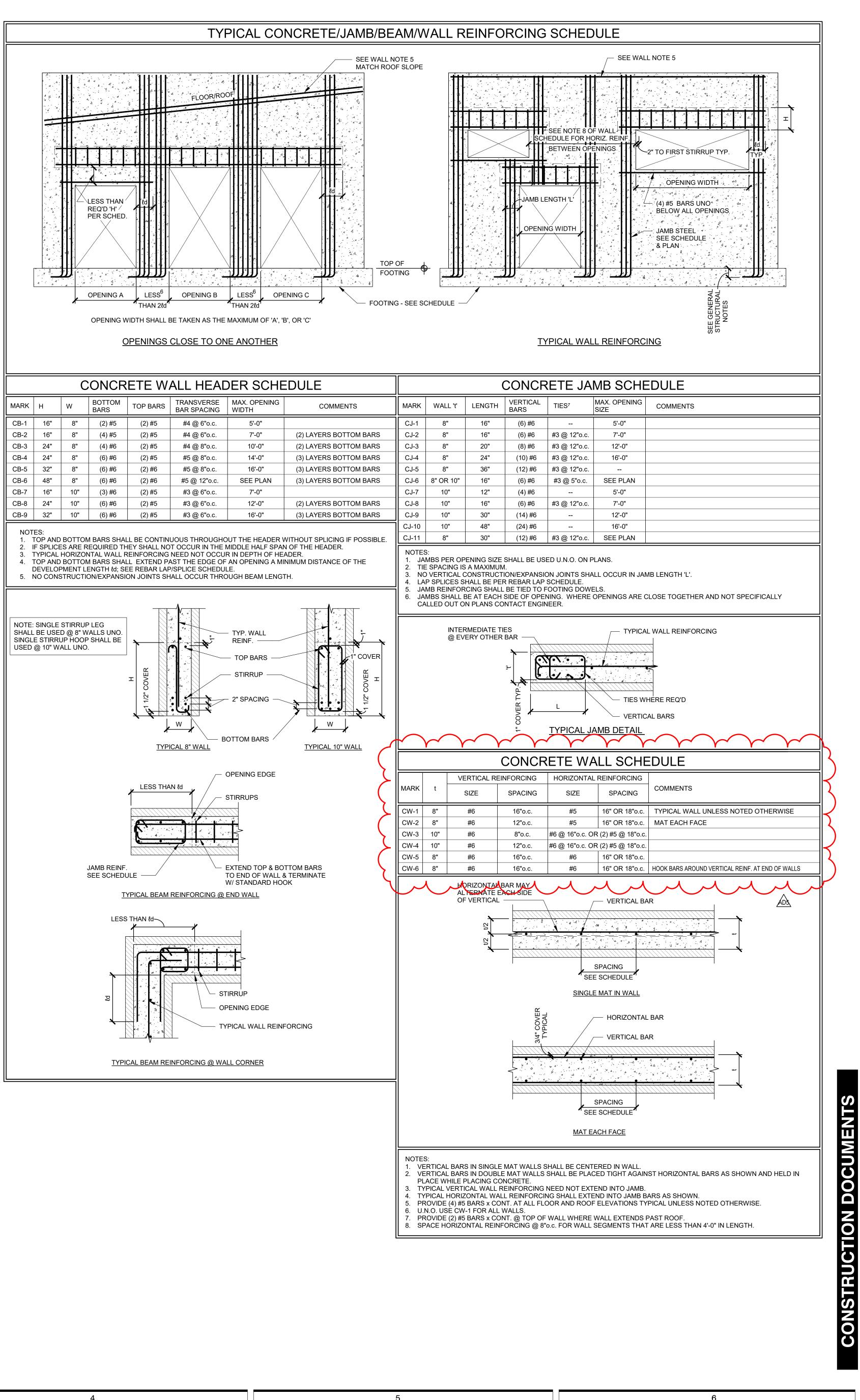
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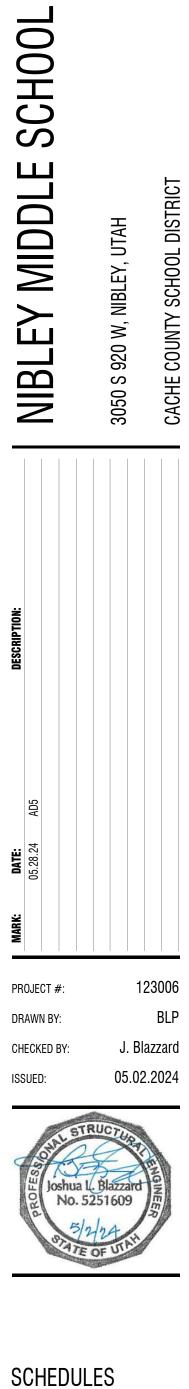
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S-011



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.

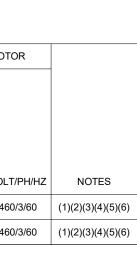
ltem	<u>Comments</u>	
Water Cooler Bottle Filler Emergency Shower Water Heater Water Treatment Cabinet Unit Heaters Boilers Unit Heaters Water Heaters VFD VFD	Manufacturer Oasis Oasis Chicago PVI Clear Water Sterling Commercial Hydronics Lochinvar Sterling Commercial Hydronics Lochinvar Eaton Danfoss	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

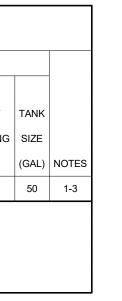
Page 3 of 3

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

AIR HANDLER SCHEDULE	AIR SEPARATOR SCHEDULE		
AIR COMPONENTS ELECTRICAL PHYSICAL LIGHTING CABINET		PHYSICAL AD SYSTEM DIA./	
MANUFACTURER SUPPLY AND LENGTH/ AND AIRFLOW OUTLET WIDTH/HEIGHT ID MODEL NUMBER LOCATION (CFM) FANS COILS VOLT/PH/HZ (IN) (LB)		SS PRESSURE HEIGHT T) (PSIG) (IN) NOTES 3 60 20/45.5 1	
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 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 ASHW-1 TACO 4908AD-125 BOILER ROOM D135 TANK, HIGH EFF, AIR/DIRT 662.9 30% P GLY 3 1,2	3 60 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 18115 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 RTU-6 DAIKIN OAH021GBCM AREA D 8856 SF-RTU-1, RF-RTU-6 CC-RTU-6, HC-RTU-6 120/1/60 356/82/58 681 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	$\begin{array}{c c} 1,2 \\ \hline 1,2 \\ \hline 1,2 \end{array}$		
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 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 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 1723	1,2 1,2 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		
UNIT COMPLETE WITH 20" SEISMIC CURB AND EBTRON AIR FLOW MEASURING STATION ON THE OUTSIDE AIR INLET.			
MAKE-UP AIR HANDLER UNIT SCHE			
HEATING EXTERNAL EXTERNAL EXTERNAL EXTERNAL Image: Control of the state of the sta	MAX MAX		
AIR FLOW PRESSURE AIR TEMP. HEATING HEATING HEATING RATE DROP DB LOAD FUEL	DIMENSIONS OPERATING LXWXH WEIGHT EVAP		
	(IN) (LBS) COOLER HP VOLT/PH/HZ NOTES 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 2 (1) ALL CAPACITIES BASED AT 1,800 FEET ELEVATION. 2	133 X 44 X 45 1700 YES 1.5 460/3/60 (1)(2)(3)(4)(5)(6)		
(2) UNIT COMPLETE VITH 18" SPRING VIBRATION ISOLATED ROOF CURB. MATCH ROOF CURB TO SUPPORT UNIT. (3) SUPPLIED WITH VENT CAP AND 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:			
 (6) TYPE UNIT: 100% OUTSIDE AIR ROOPTOP MARE-OP 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 TEMPERA D) EVAPORATIVE COOLER TO BLOWER FAN TRANSITION.	TURE.		
E) FACTORY MOUNTED DISCONNECT.			
HYDRONIC BOILER SCHE	DULE		
	ELECTRICAL PHYSICAL ERING/ HEAD MOTOR CONTROL STACK WIDTH/		
AND FUEL LOAD FLOW LOAD RATE TE	EMP. WORKING LOSS MOTOR SIZE MOTOR CIRCUIT DIAMETER HEIGHT "F) FLUID (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 5000000 5000 4400000 282.4 126 B-2 CLEAVER-BROOKS CFC-E 5000 BOILER ROOM D135 COND, FORCED, DUAL RET NAT GAS 5000000 5000 4400000 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 .7/160 30% P GLY 5 1 10.73 460/3/60 120/1/60 1@14 80.6/58.7/93.6 1		LLES, REGISTERS AND DIFFUSERS
1. ASME CERTIFIED		ID MANUFACTURER MODEL CD-1 PRICE SPD	30 SQUARE PLAQUE FACE CEILING DIFFUSERS. REMOVABLE FACE, FRAME SHALL E 30 SQUARE PLAQUE FACE CEILING DIFFUSERS. REMOVABLE FACE, FRAME SHALL E 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. COLOR AND FINISH ARCHITECT FROM STANDARD COLORS
CHEMICAL FEED SYSTEM SCHEDULE		CD-2 PRICE SDS 100	2 SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND VANES FOR ONE OR TWO WAY THROW PATTERN. UNITS SHALL HAVE 1" SLOTS PI ENLIM WITH ROUND DUCT CONNECTION. FOR SURFACE OR LAY-IN MOUNTIN
FLUID STATIC	ELECTRICAL PHYSICAL LENGTH/		3 SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND
MANUFACTURER TOTAL FIL PRESSURE AND VOLUME VOLUME PRESSURE RATING	WIDTH/NPTTANKHEIGHTFITTINGSIZE	CD-3 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.
IDMODEL NUMBERLOCATIONTYPEFLUID(GAL)(PSIG)(PSIG)CWT-01WEST CONDENSER WATER TREATMENTCHILLER ROOM C112CHEMICAL FEEDERWATER1688.440	VOLT/PH/HZ ALARM PANEL (IN) (IN) (GAL) NOTES 120/1/60 108/36/66 1 50 1-3	CD-4 PRICE SDS 100	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 UNIT SHALL BE CURVED FACE FOR EXPOSED DUCT MOUNTING AS REQUIRED.
1. PROVIDE THREE DOUBLE WALL CONTAINMENT POLY TANKS: (1) SCALE INHIBITOR, (2) BIOCIDE, ONE INJECTION PUMP PER TANK MOUNTED ON SS 2. WALL MOUNTED CONTROLLER. SOLIDS SEPARATOR BLOW DOWN SHALL BE CONTROLLED BY TOWER TREATMENT CONTROLLER	S SHELF ABOVE TANKS	DL-1 PRICE HCD1	25 DRUM LOUVER SUPPLY GRILLE WITH ROTATABLE DRUM HAVING MECHANISM T VARIABLE VOLUME, STEEL FRAME, ALUMINUM VANES AND DRUM. MOUNTING FI SUNK HOLES FOR DUCT MOUNTING. ADJUSTABLE THROUGH 60 DEGREES.
3. ESTIMATED WEIGHT: 50 LBS.			PERFORATED FACE RETURN AIR UNIT, REMOVABLE FACE & CORE. FRAME SHA
WATER-COOLED CHILLER SCHED	ULE	RG-1 PRICE PDDR	30 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
	LECTRICAL PHYSICAL	RG-2 PRICE 90	30 HEAVY DUTY RETURN GYM GRILLE. PERFORATED FACE RETURN AIR UNIT, REM 30 CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY STEEL OPPOSED BLADE DAMPER. INCLUDING 30° BLADE DEFLECTION. CRATE TYPE CEILING EXHAUST AIR UNIT, WITH OBD. REMOVABLE FACE AND C
MANUFACTURER HEAD	MAXIMUM AND LENGTH/ UNIT CONTROL WIDTH/	EG-1 PRICE 80 SWE-1 PRICE 535	30 BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-I 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILA HAVE 1/2" x 1/2" x 1/2" SQUARES. 30 SIDEWALL RETURN AIR GRILLE. HORIZONTAL STATIONARY 45° DEFLECTION VA
AND LOAD RATE TEMP. WORKING LOSS M	IAX TOTAL TOTAL EFFICIENCY EFFICIENCY CIRCUIT HEIGHT (W MCA MOCP (KW/TON) RATING VOLT/PH/HZ (IN) NOTES	SWR-1 PRICE 535	30 INCH CENTER. COLOR AND FINISH AS SELECTED BY ARCHITECT 30 SIDEWALL RETURN AIR GRILLE. HORIZONTAL STATIONARY 45° DEFLECTION VAINCH CENTER. COLOR AND FINISH AS SELECTED BY ARCHITECT DOUBLE DEFLECTION HIGH SIDEWALL SUPPLY REGISTER. VERTICAL FRONT WARD
CH-1 CARRIER 19MV-21L21K259E35 CHILLER RM MAG BEARING R513A 270 EVAPORATOR 686.9 54/44 30% P GLY 18.2 1 CONDENSER 749 80/90 WATER 14.6	50 252 450 0.542 0.5330 (NPLV) 460/3/60 - 120/1/60 158/52/100 1-7	SWS-1 PRICE 520	30 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 2. UNIT WITH MODULATION CAPACITY DOWN TO 15% OF MAXIMUM LOAD AND RUN AT 55 CHWS AND 59 CHWR		SWS-2 PRICE HCD1 1. PROVIDE CD-1 FOR ALL CEILING SUPPLY DIFFUSE	30 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 4. MINIMUM EVAPORATOR FLOW = 350 GPM, CONDENSER = 375.4 GPM. 		2. PROVIDE RG-1 FOR ALL CEILING RETURN GRILLES 3. PROVIDE EG-1 FOR ALL CEILING EXHAUST GRILLE	
5. UNIT COMPLETE WITH ECONOMIZER. 6. UNIT WITH INLET GUIDE VANES, VFD AND MAGNETIC BEARING COMPRESSORS			
7. PROVIDE WITH MARINE BOX ON CONDENSER WATER INLET.			





3

				AIR			HYDRONIC				RONIC				PHYSICAL		
							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	

• • •	SCHED	 DULE							٦			architects	LOGAN UT 84321 LOGAN UT 84321 SALT LAKE CITY UT 84103
	HYDRONIC				PHYSIC								
							MINIMUM						
NG P. STATIC		NTERING/ LEAVING		HEAD		MINIMUM FACE	NO. ROWS/					esinn west	5
/B PRESSURE	E RATE	TEMP.	VORKING	LOSS	NO.	AREA	FINS PER					3	
) (IN. H2O) 0.6 0.57			FLUID 0% P GLY	(FT) 16.3	COILS	(FT ²) 66.62	INCH 6/10	NOTES					255 SOUTH 300 WEST 795 NORTH 400 WEST
0.6 0.57 0.7 0.56			0% P GLY 0% P GLY	16.3 15.8	2 2	66.62 76.88	6/10 6/10					1	H 300
0.6 0.47	187.6	42/53.8 30	0% P GLY	14.9	2	76.88	6/9					ă	SOUT
1.2 0.67 .1 0.46			0% P GLY 0% P GLY	10.2 12.5	2	42.62 7.5	6/12 5/12					7	255 795
.1 0.46 0.8 0.46			0% P GLY	12.5 14.6	1	7.5 20.12	5/12 5/12						
0.3 0.46	46.8	42/53.7 30	0% P GLY	9.7	2	23.62	6/9						
0.4 0.62			0% P GLY	12.3	1	16.75	8/7					1	
0.8 0.46 0.1 0.5			0% P GLY	15.3 14	2 1	66.62 18.38	6/9 6/9					1	
0.09	23.6 1	160/119.8 30	0% P GLY	3.3	2	65	1/8					1	
0.12			0% P GLY		2	70	1/11					1	
0.19			0% P GLY		2 2	70 41.25	1/12 2/7					1	
0.14		160/129.9 30	0% P GLY	0.2	1	41.25	1/7						40 W. Cache Valley Building 1, Suite B
0.07			0% P GLY		1	19.25	1/7						Logan, UT O: (435)752-5081
0.11			0% P GLY 0% P GLY		1	16.25 16	1/6 1/6					VBFA	www.vbfa.com VBFA Project #: 237
6 0.13 6 0.15			0% P GLY 0% P GLY		1 2	16 65	2/10					1	
0.17	19.3 1	160/121.5 304	0% P GLY	3.3	1	17.5	2/9						
(ENSAT	.– NE			7ER (×تHE[
				U			E DEVICE	PHYSICAL					
MANUFACTU	IRER					INPUT		LENGTH/ WIDTH/	NPT				
AND					L	LOAD EF	FFICIENCY	HEIGHT	FITTING				
			QTY			BTU/H)	(%)	(IN)	. ,	NOTES			
AXIOM NT2 AXIOM NT2		ER ROOM D13		STANDA STANDA		000000		17.5/13.5/8 17.5/13.5/8	1				
AXIOM NT2	<u>_</u>			_									
TOWER	SCHE						,						
		INLET/	ELECTRIC	AL, FAN			OWER	PHYSICAL					
ENTERING		OUTLET HEAD		MOTOF	R MOTO		AND NTROL	OPERATING		NGTH/ IDTH/			
OWLEAVINGTETEMP.			MOTOR	MOTOR SIZE	R MOTO SPEE		IRCUIT	OPERATING		IDTH/ EIGHT		1	
PM) (°F) 10 90/80	FLUID	(FT)	QUAN.	(HP) 15	(RPM	M) VOL	_T/PH/HZ 60 - 120/1/60	(LB)	(11	(IN) NO	NOTES	1	
												NIBLEY MIDDLE	3050 S 920 W NIBLEY, UTAH CACHE COUNTY SCHOOL DISTRICT
	DN TAN	NIN. TANK/	IEDUI		MAXIMUI	JM RELI	PHYS IEF	SICAL			ION DOCUMENTS	MARK: DATE: DESCRIPTION: 2 5-28-2024 Addendum 3 DESCRIPTION: DESCRIPRINE: DESCRIPTION: DESCRIPTION: DESCRIPT	Author

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.

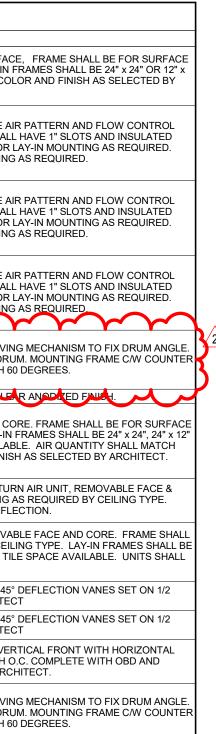
3. PROVIDE BASIN PLATFORM, LADDERS, LADDER EXTENSIONS AS REQUIRED.

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.

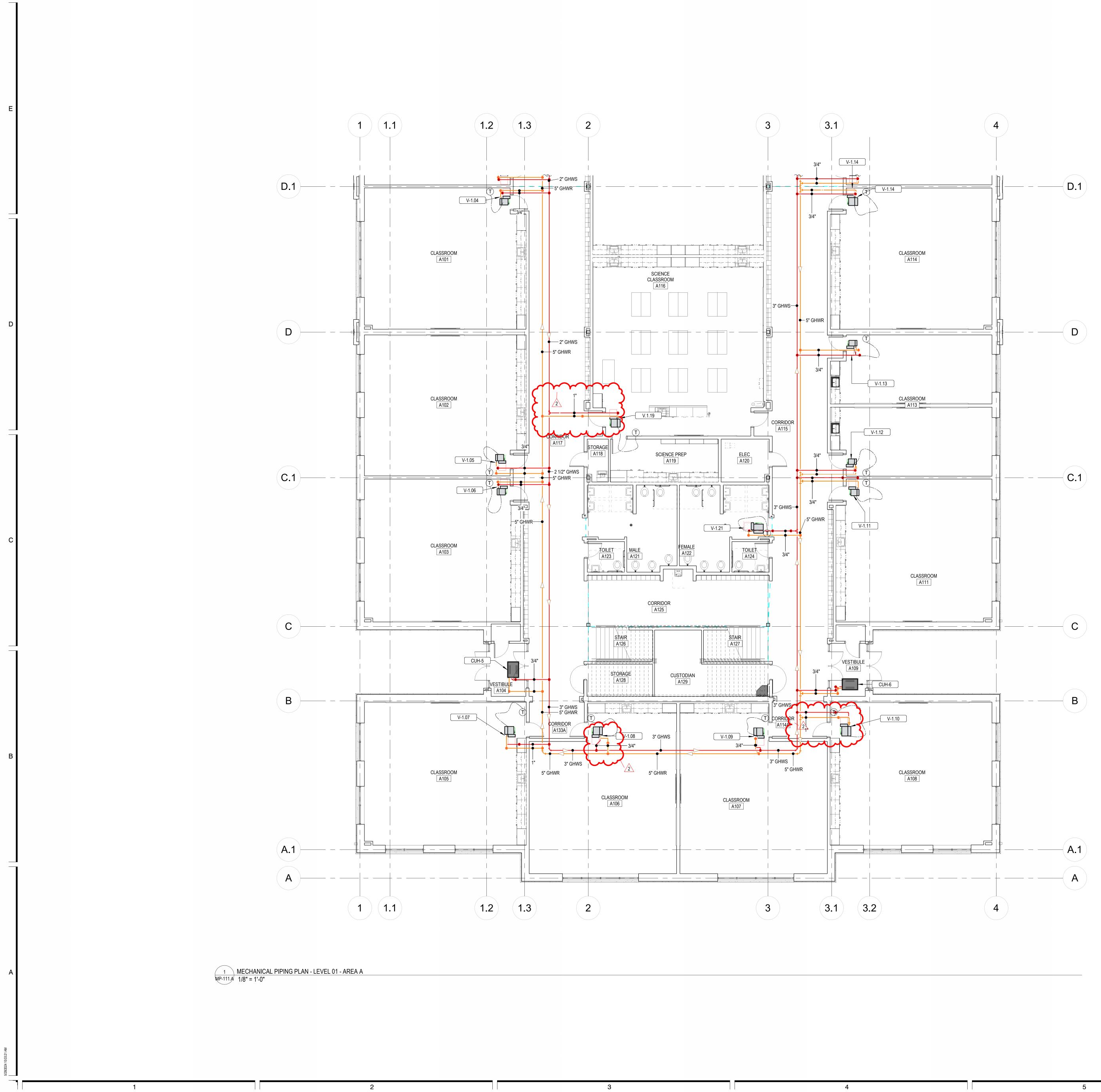
7. UNIT COMPLETE WITH SUMP SWEEPER PIPING, MINIMUM SWEEPER FLOW RATE 89 GPM AT 20 PSI.



				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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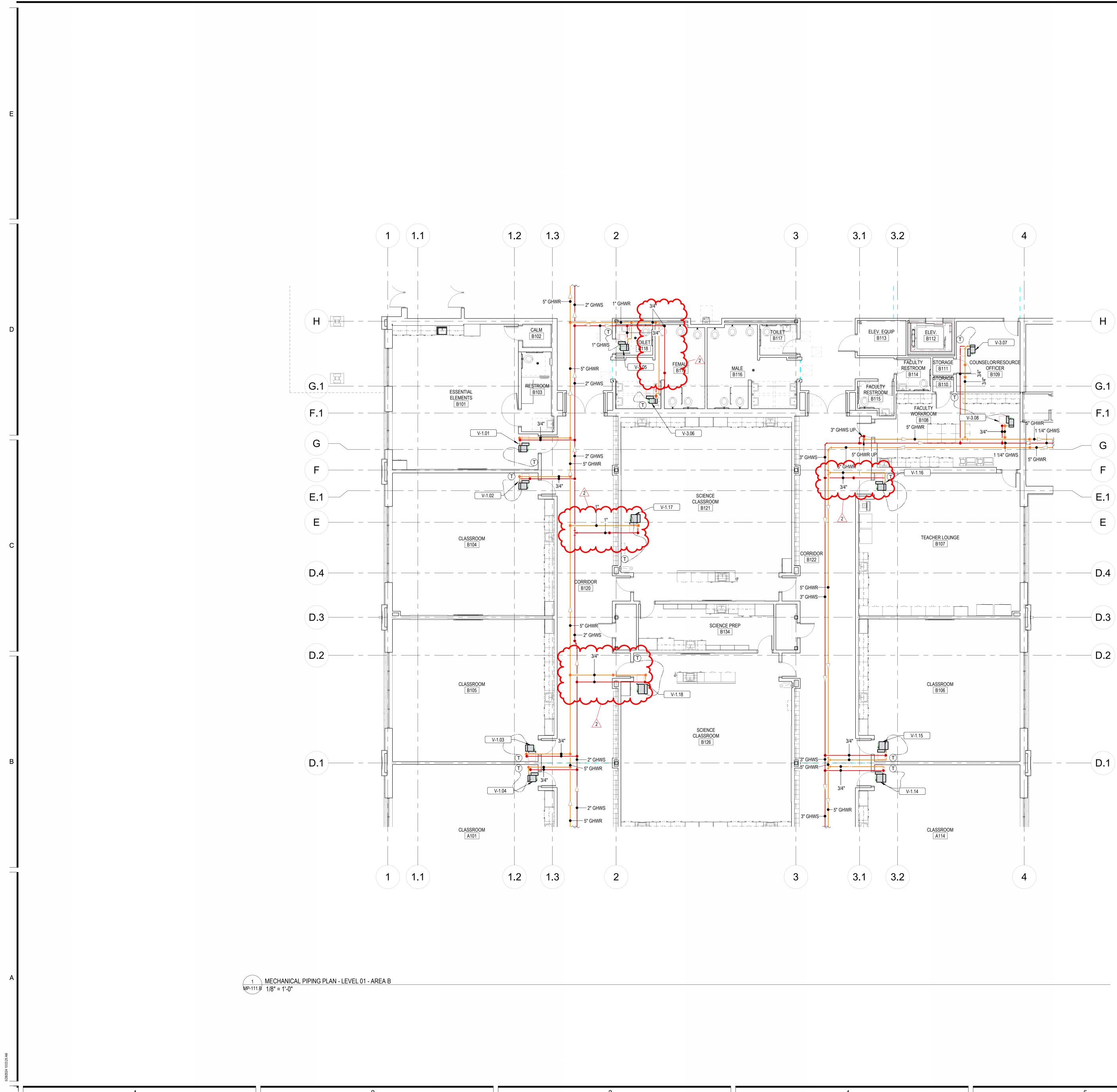
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KEY PLAN

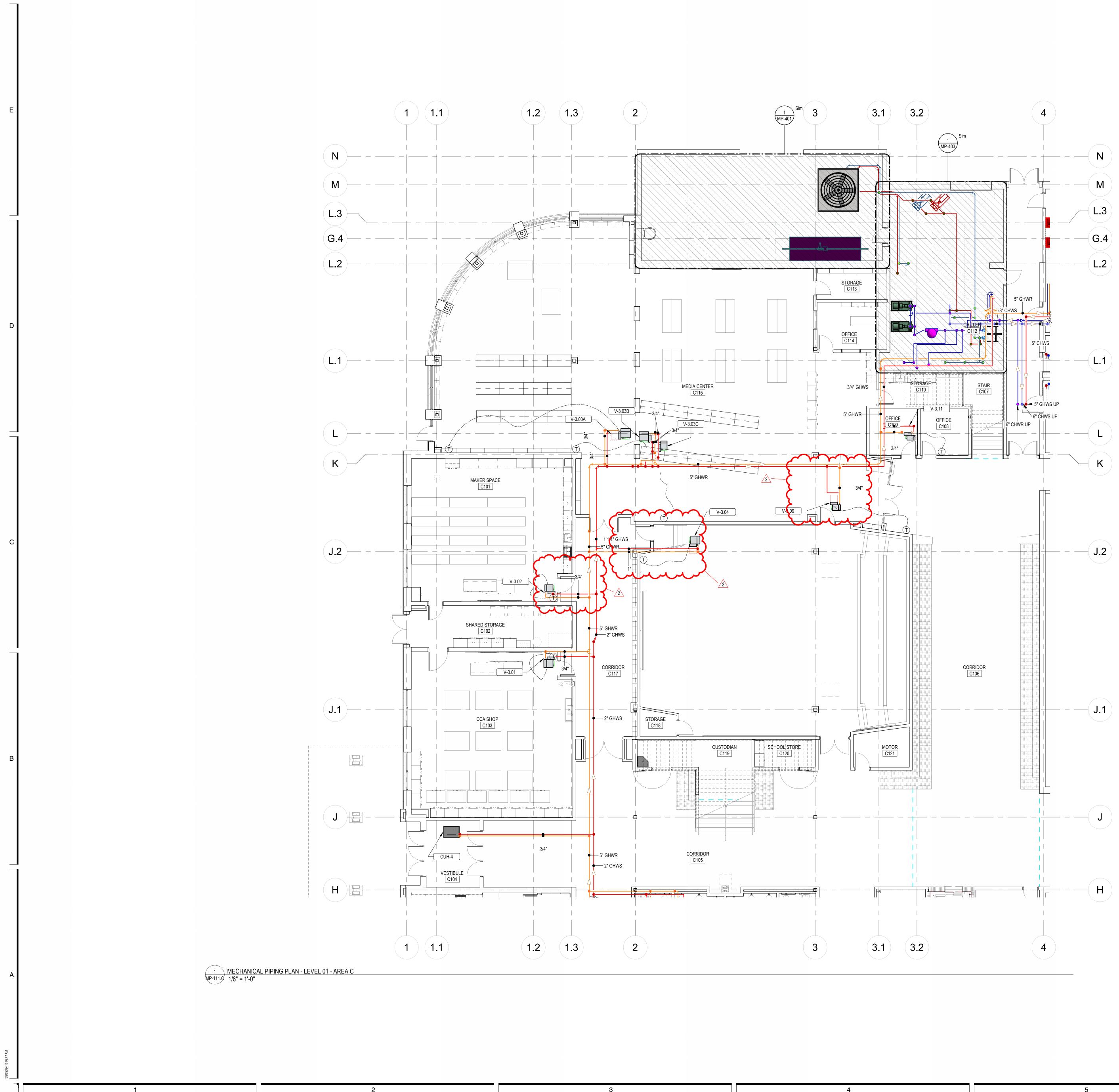




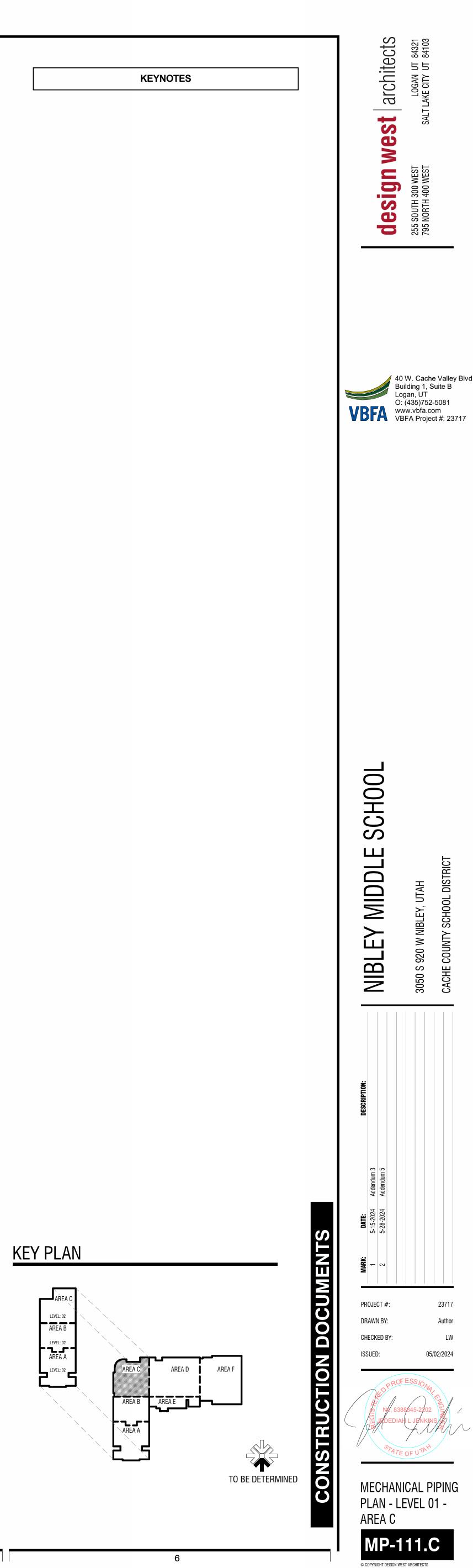


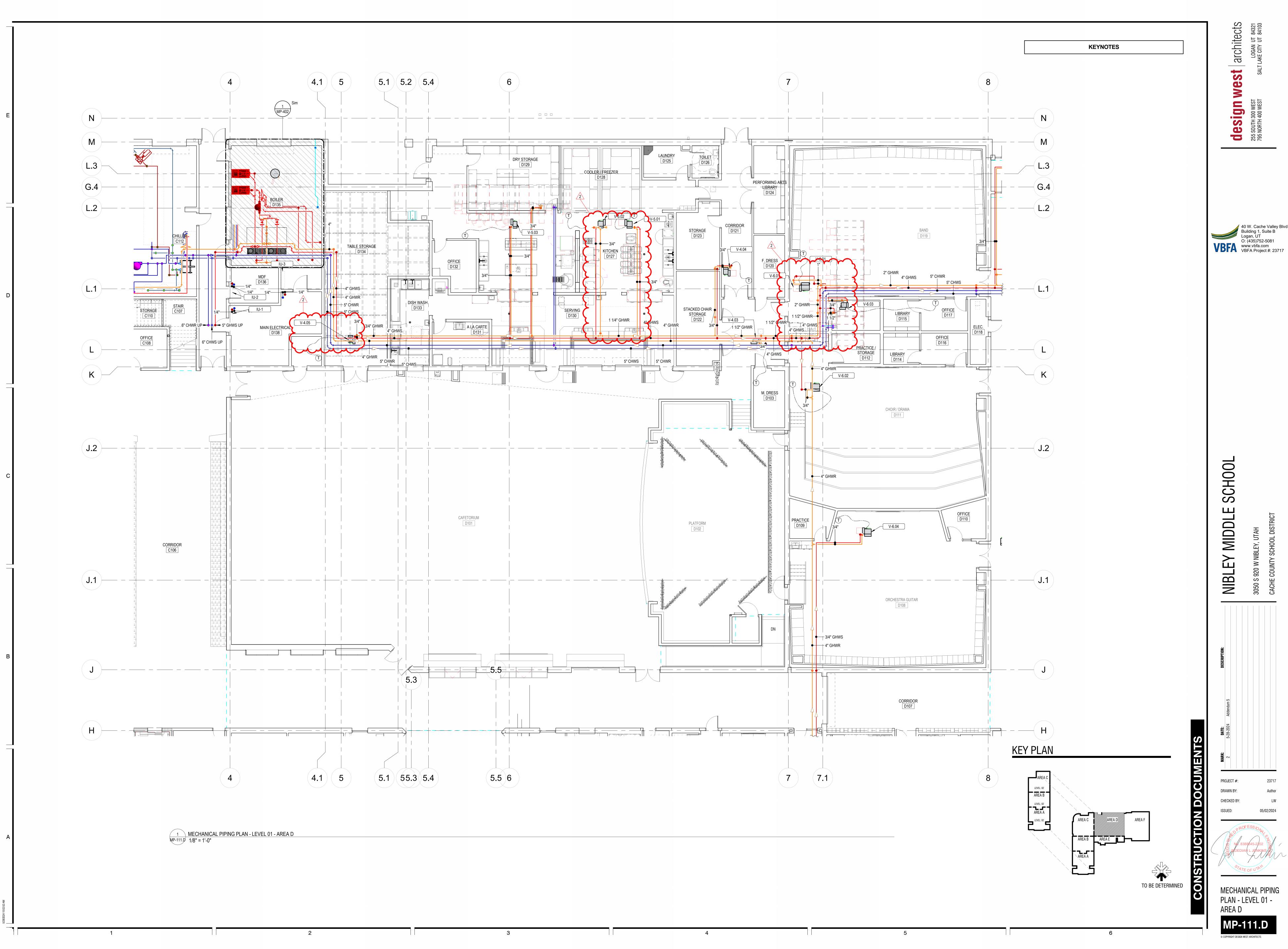
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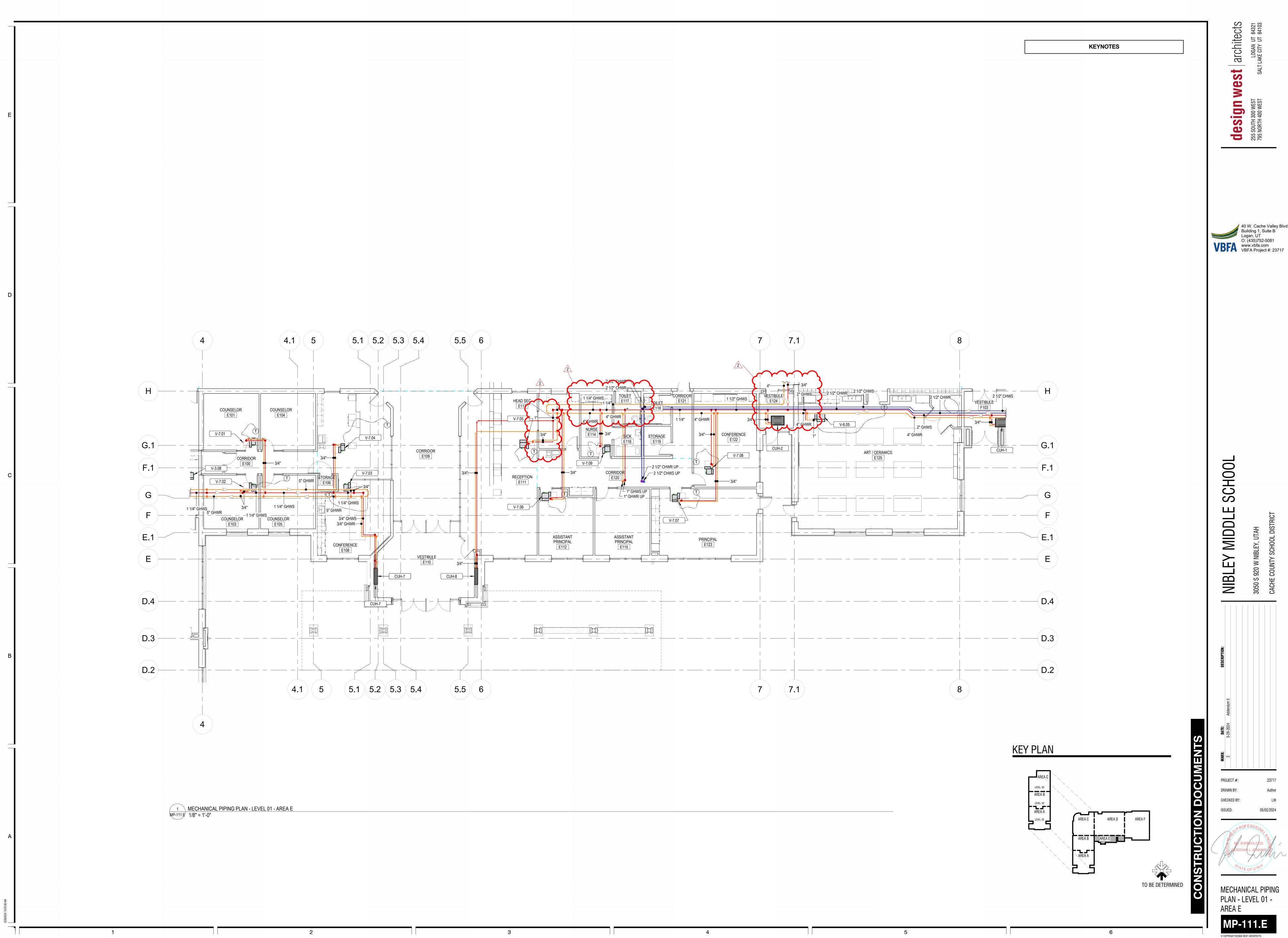


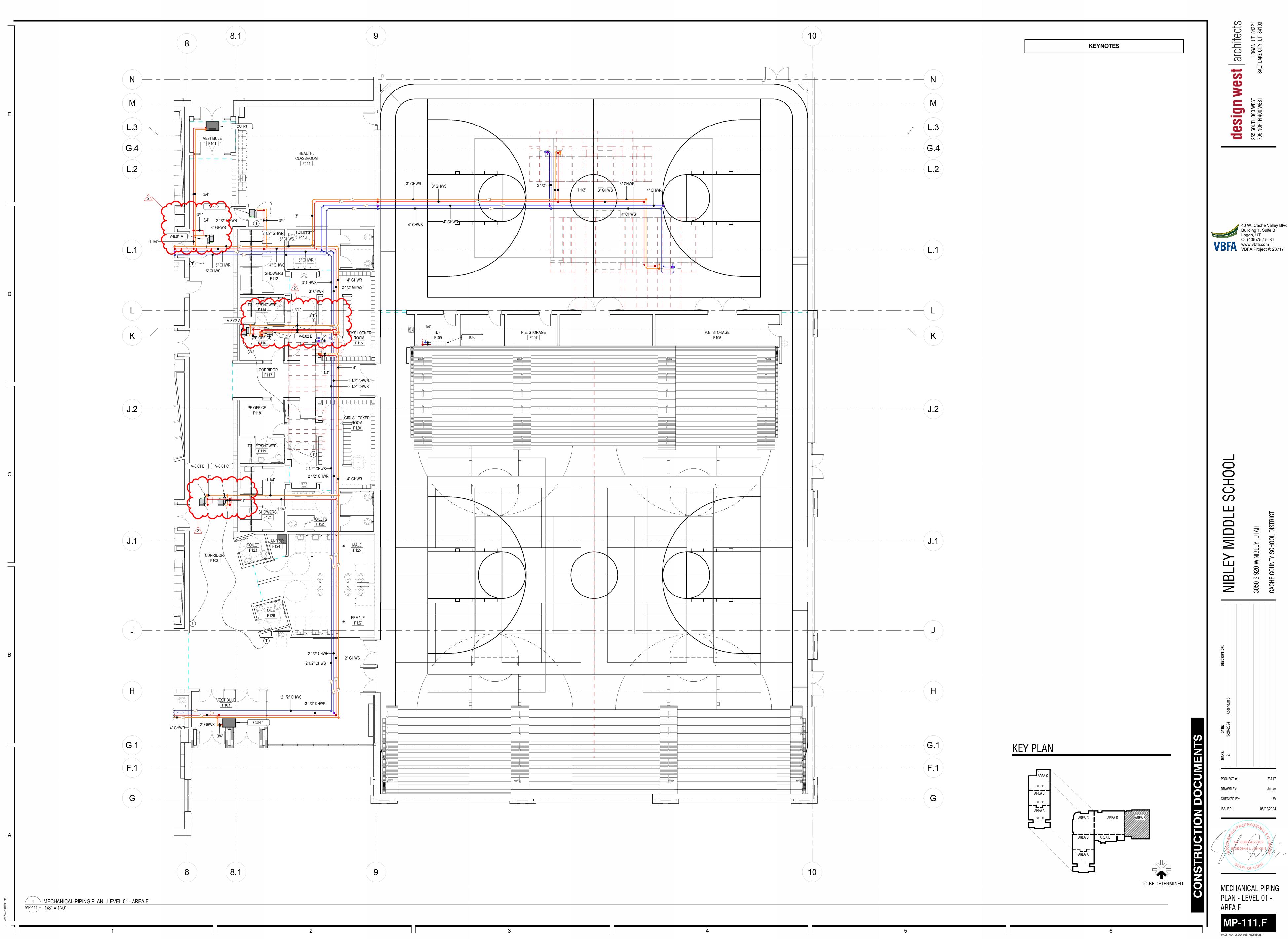


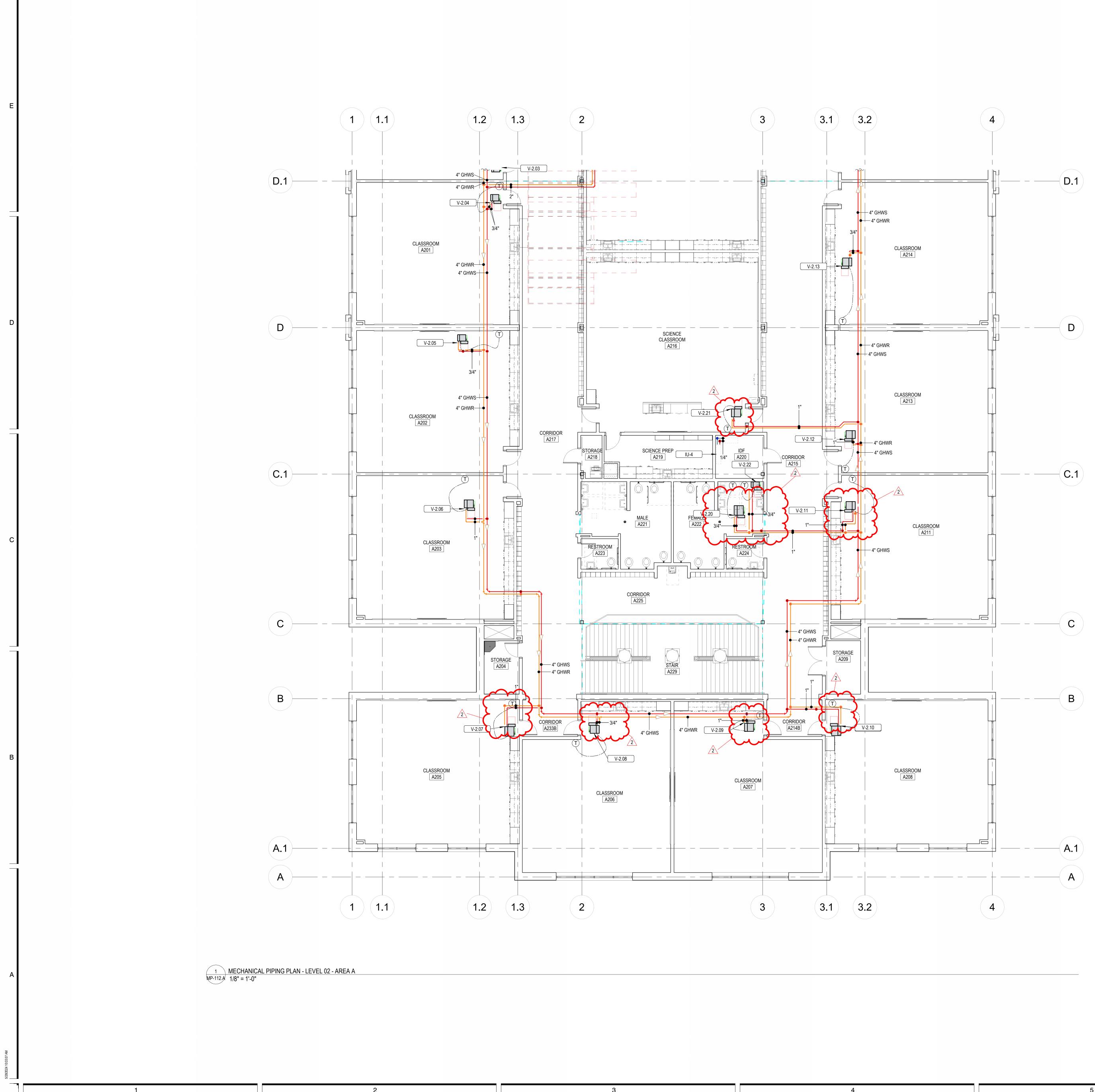




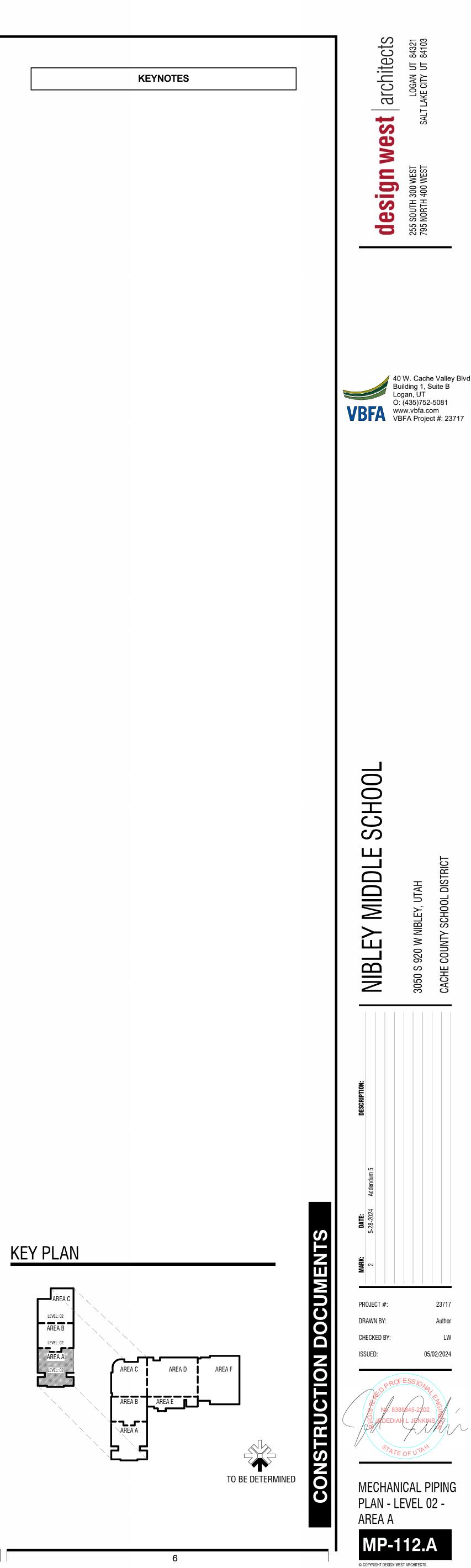


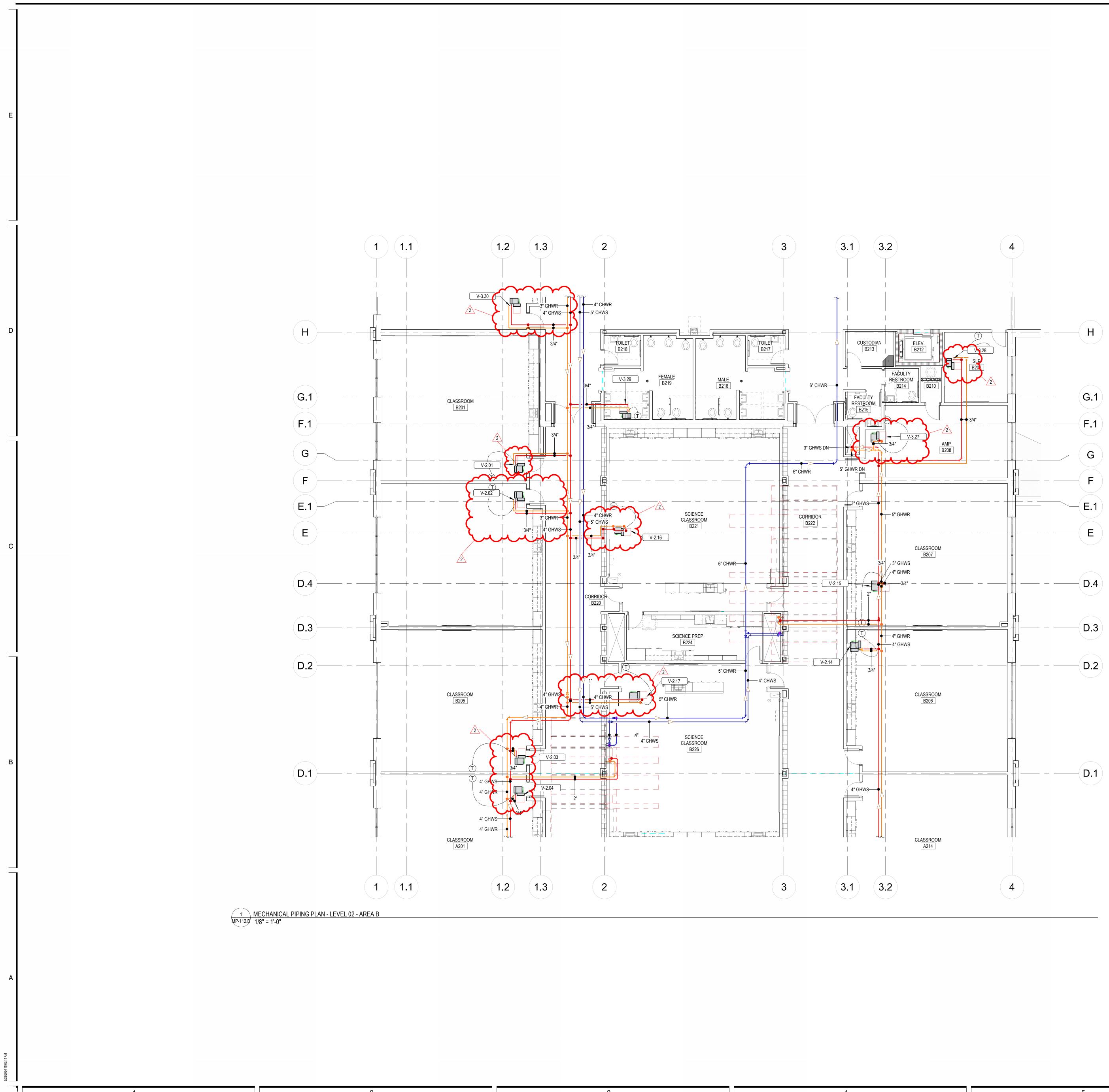




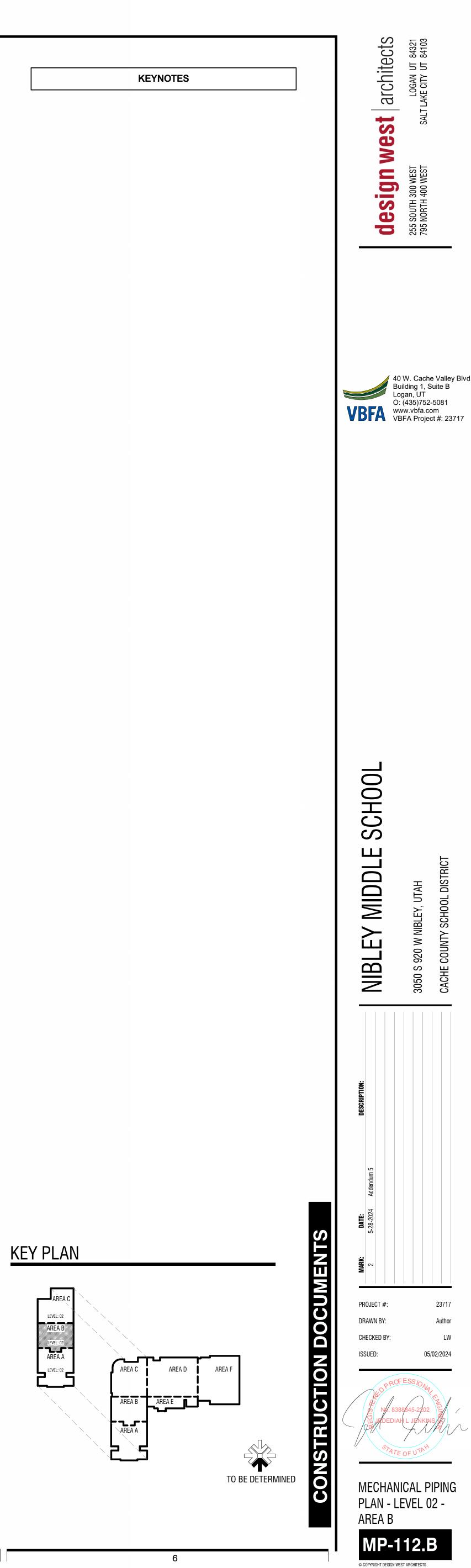


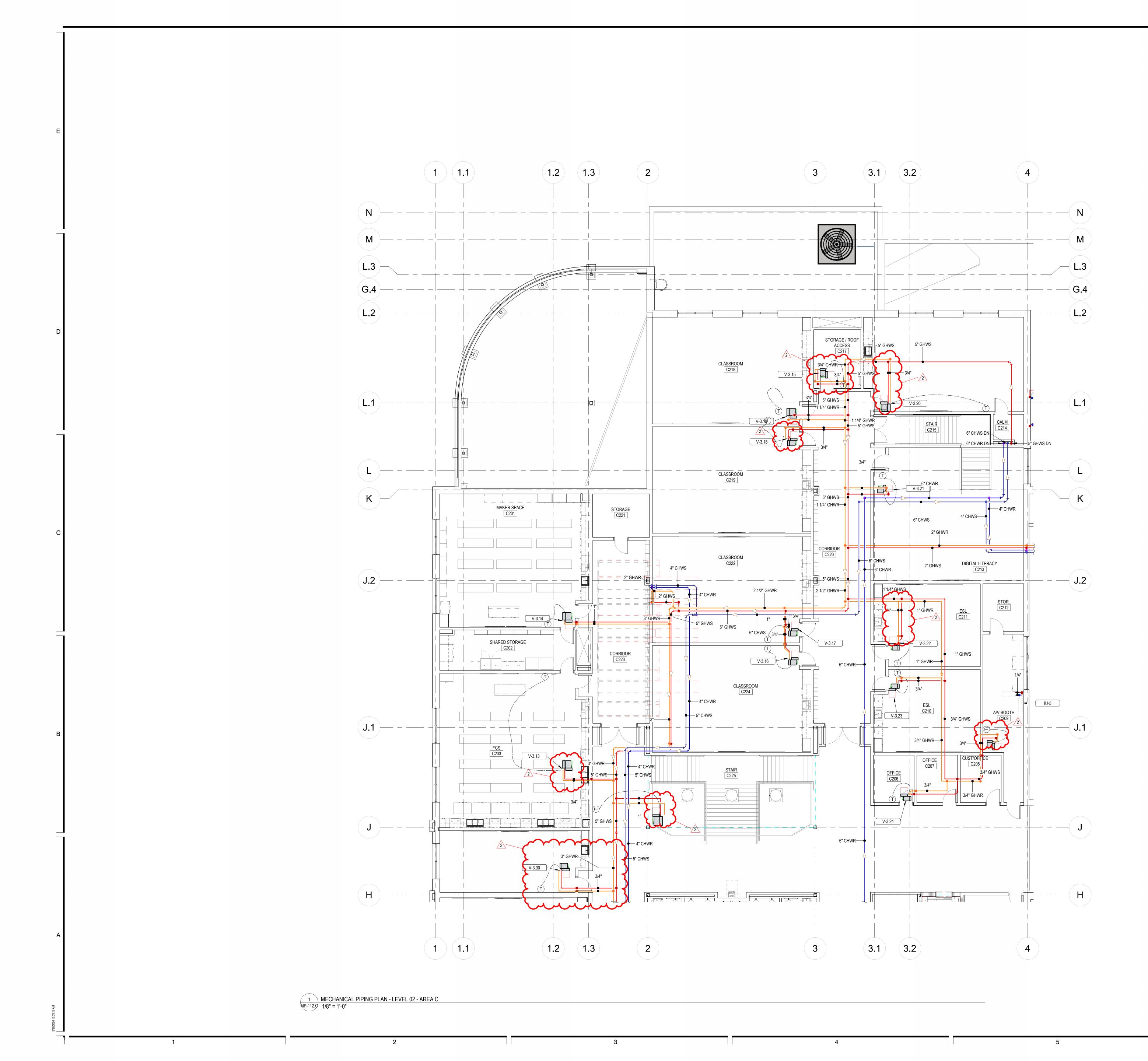




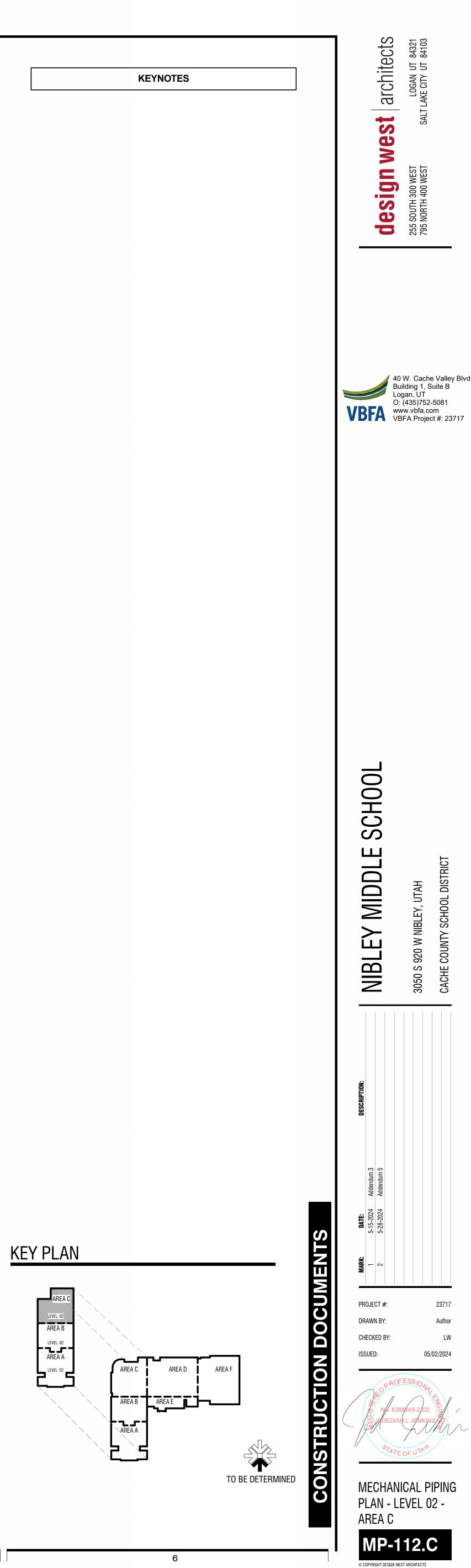














ADDENDUM #05

То:	Stephen Williams, AIA, NCARB	From:	Philip Borup
Company:	Design West Architects	Phone:	801-534-1130
Date:	05/28/2024		
Project	Nibley 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

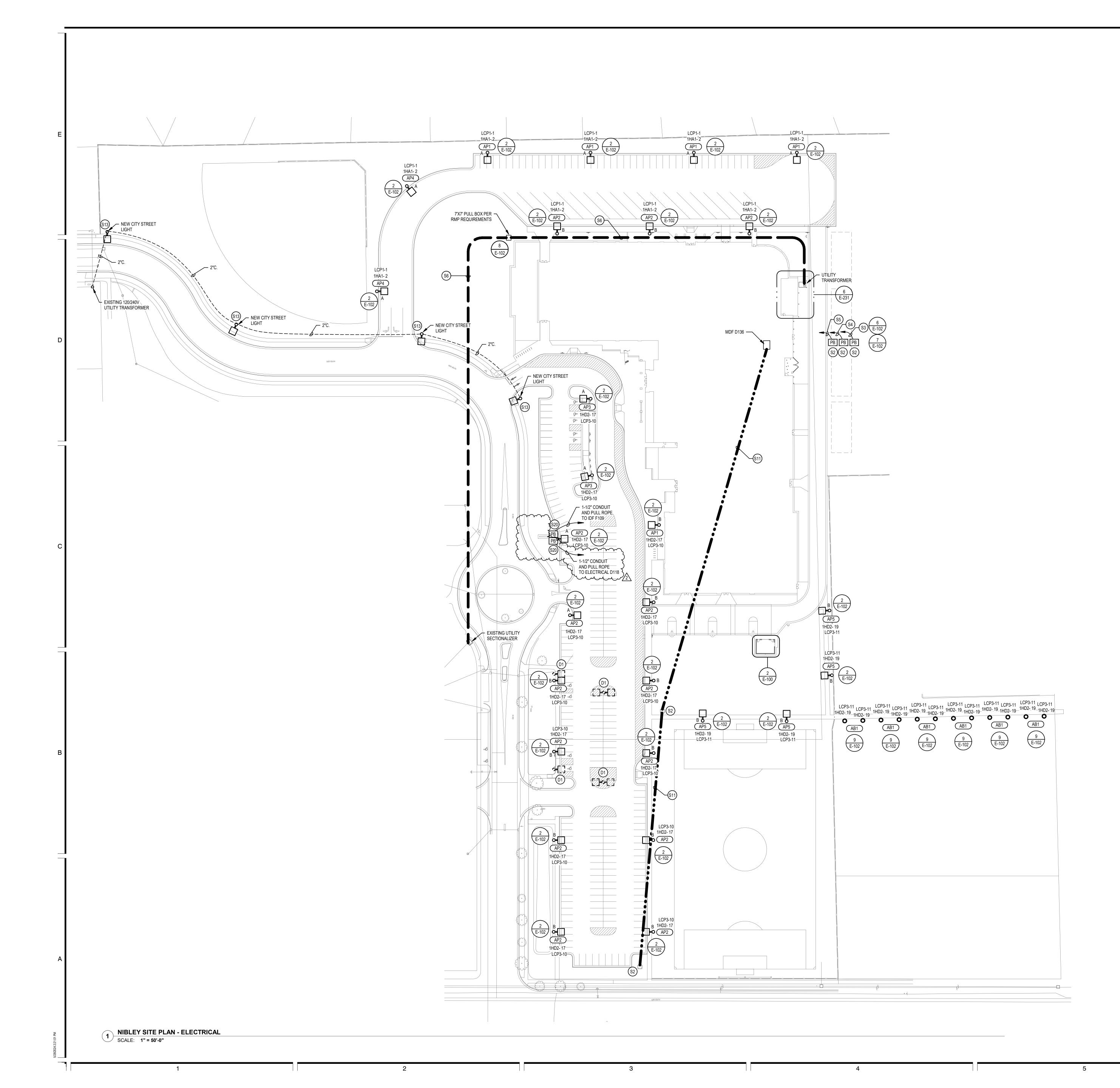
1. Audio system – Cafetorium – equipment list has been updated.

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:

- MINIMUM CONDUIT FOR SITE WORK SHALL BE 1".
- COMMUNICATION CONDUITS.
- PVC TAPE.
- PVC TAPE.

UTILITY COORDINATION REQUIREMENTS:

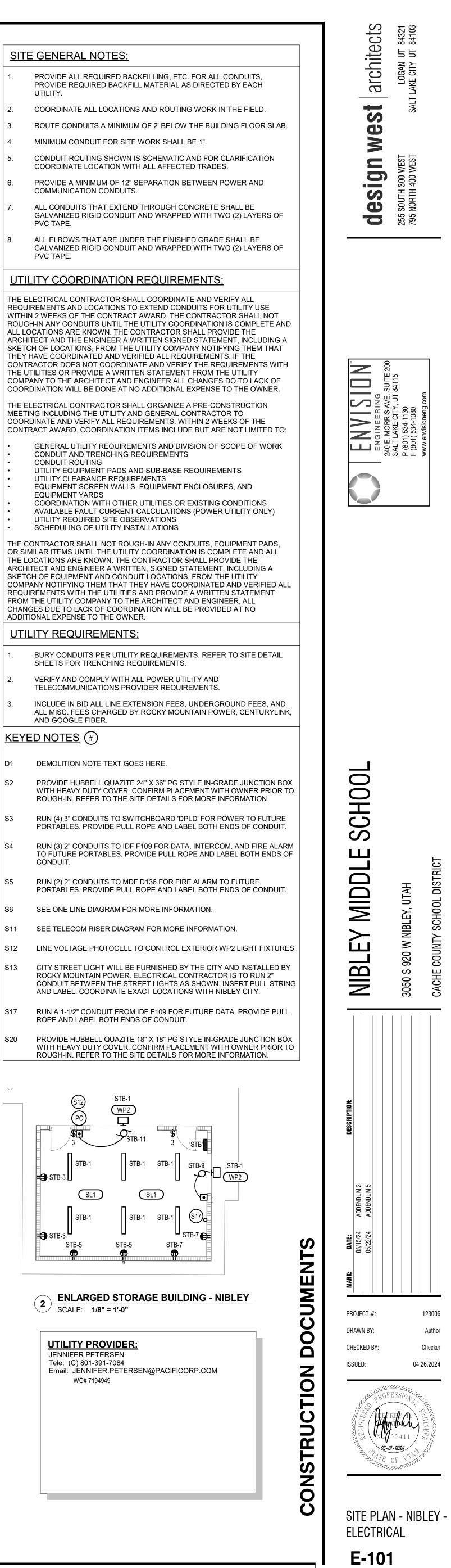
- CONDUIT AND TRENCHING REQUIREMENTS CONDUIT ROUTING UTILITY CLEARANCE REQUIREMENTS
- UTILITY REQUIRED SITE OBSERVATIONS SCHEDULING OF UTILITY INSTALLATIONS

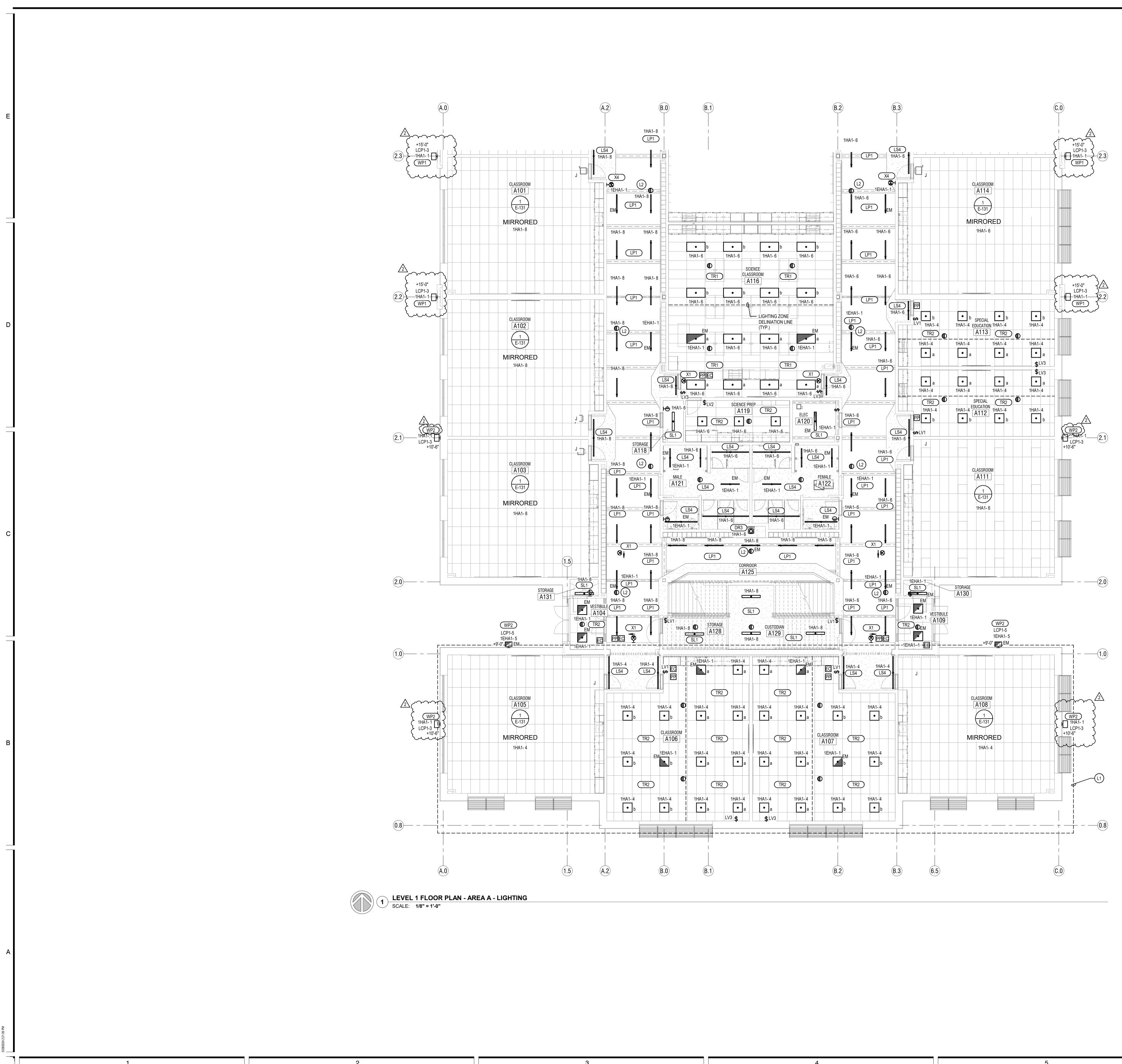
UTILITY REQUIREMENTS:

- SHEETS FOR TRENCHING REQUIREMENTS.
- AND GOOGLE FIBER.

KEYED NOTES (#)

	-
D1	DEMOLITION NOTE TEXT GOES HERE.
S2	PROVIDE HUBBELL QUAZITE 24" X 36" PG STYLE IN-GR WITH HEAVY DUTY COVER. CONFIRM PLACEMENT WIT ROUGH-IN. REFER TO THE SITE DETAILS FOR MORE IN
S3	RUN (4) 3" CONDUITS TO SWITCHBOARD 'DPLD' FOR P PORTABLES. PROVIDE PULL ROPE AND LABEL BOTH E
S4	RUN (3) 2" CONDUITS TO IDF F109 FOR DATA, INTERCO TO FUTURE PORTABLES. PROVIDE PULL ROPE AND LA CONDUIT.
S5	RUN (2) 2" CONDUITS TO MDF D136 FOR FIRE ALARM T PORTABLES. PROVIDE PULL ROPE AND LABEL BOTH E
S6	SEE ONE LINE DIAGRAM FOR MORE INFORMATION.
S11	SEE TELECOM RISER DIAGRAM FOR MORE INFORMAT
S12	LINE VOLTAGE PHOTOCELL TO CONTROL EXTERIOR V
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 NI
S17	RUN A 1-1/2" CONDUIT FROM IDF F109 FOR FUTURE DA ROPE AND LABEL BOTH ENDS OF CONDUIT.
S20	PROVIDE HUBBELL QUAZITE 18" X 18" PG STYLE IN-GR WITH HEAVY DUTY COVER, CONFIRM PLACEMENT WIT

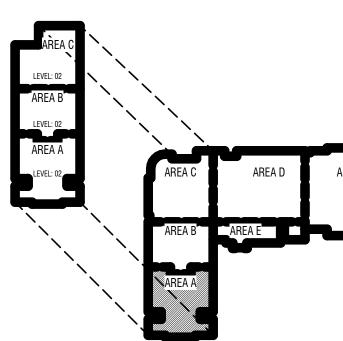




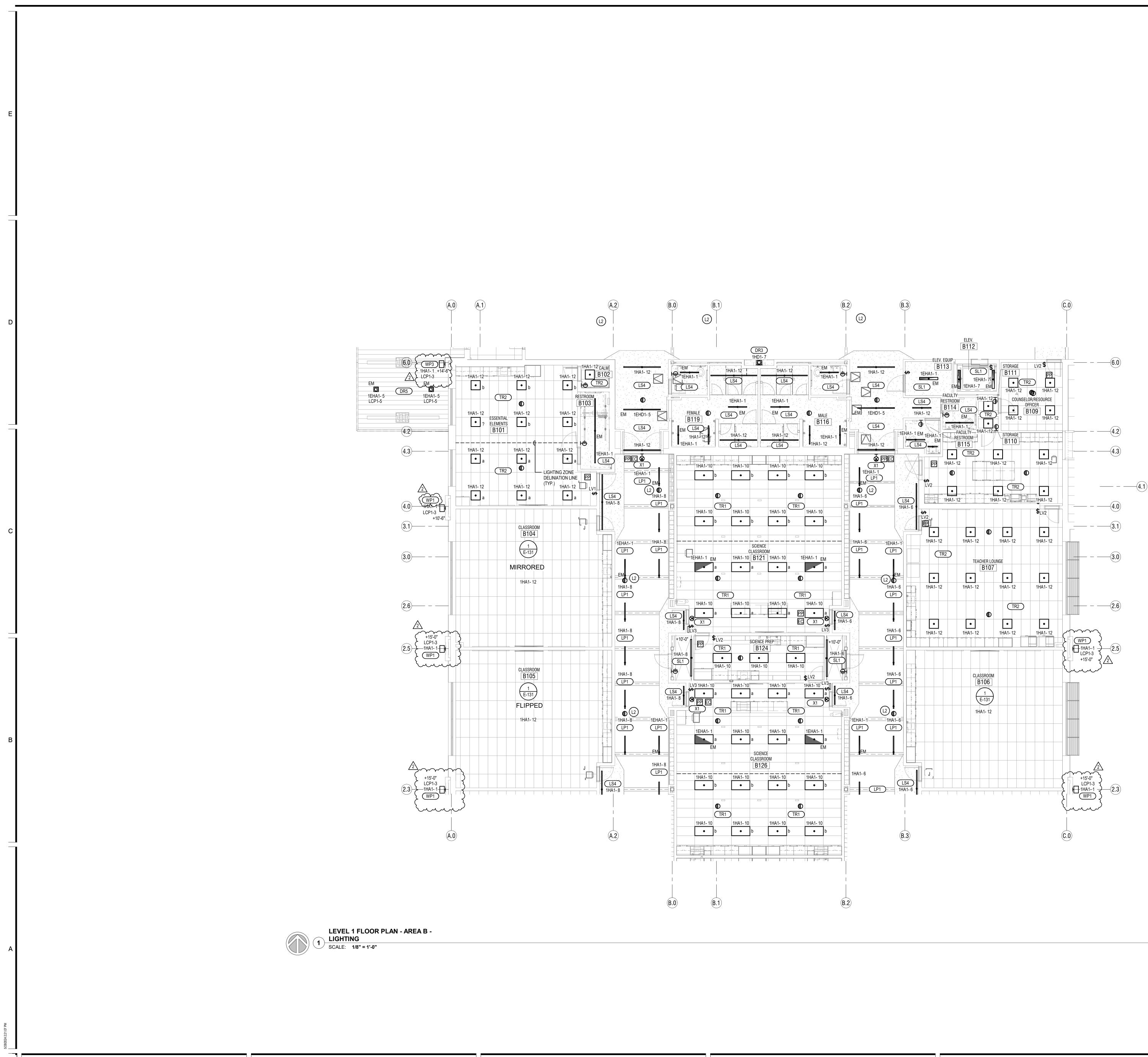
CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH TO INSTALLATION. PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY L BATTERY PACKS. REFER TO ARCHITECTURAL CEILING PLANS FOR EXA ALL LIGHT FIXTURES. PROVIDE AN RFI FOR ANY CON LIGHTING PLANS AND ARCHITECTURAL REFLECTED PRIOR TO ORDERING LIGHT FIXTURES. KEYED NOTES (#) UNDER THE BASE BID, INCLUDE ALL WORK IN THIS / 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
		INBLEY MIDDLE SCHOOL	3050 S 920 W NIBLEY, UTAH	CACHE COUNTY SCHOOL DISTRICT
	CONSTRUCTION DOCUMENTS	ATE	04.2	123006 Author Checker 26.2024
TO BE DETERMINED	CON	LEVEL 1 LIGHTING	- AREA	A -



LIGHTING GENERAL NOTES:

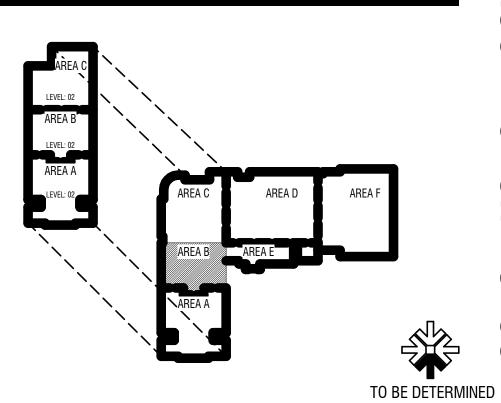
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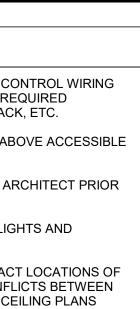
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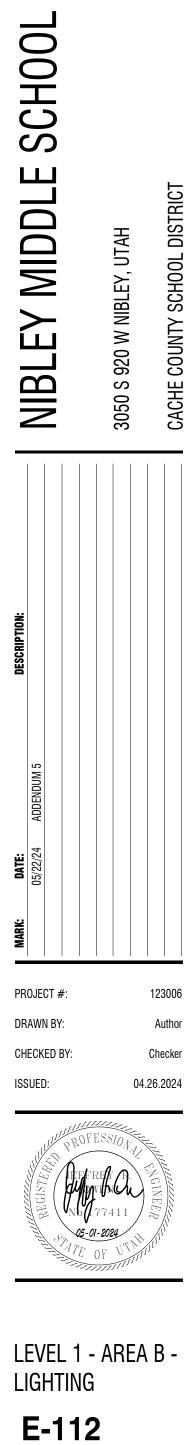
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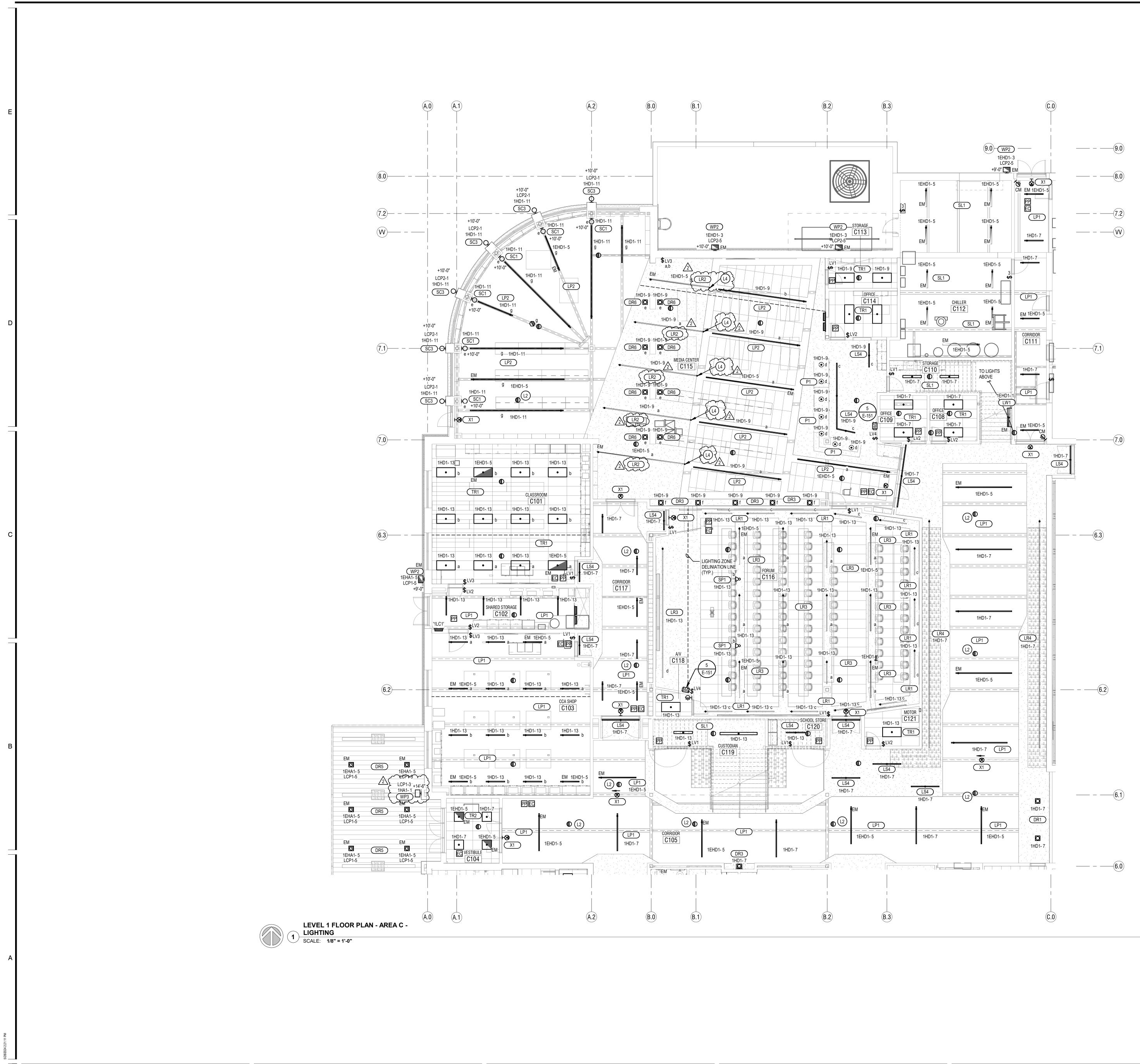
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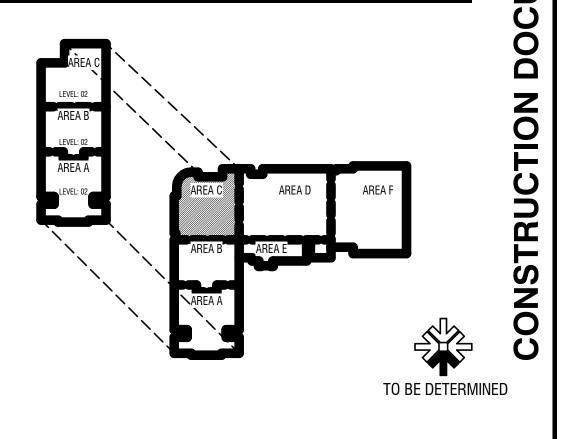
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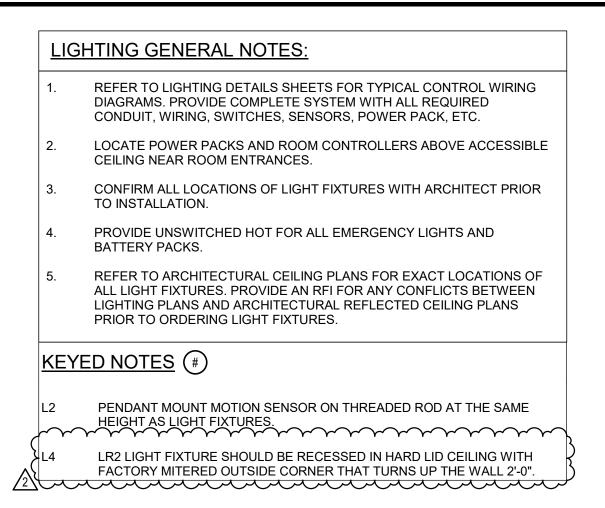


		CONDON, WIKING, SWITCHES, SENSONS, FOWERTA
	2.	LOCATE POWER PACKS AND ROOM CONTROLLERS A CEILING NEAR ROOM ENTRANCES.
	3.	CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH A TO INSTALLATION.
	4.	PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY L BATTERY PACKS.
	5.	REFER TO ARCHITECTURAL CEILING PLANS FOR EXA ALL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

LIGHTING GENERAL NOTES:

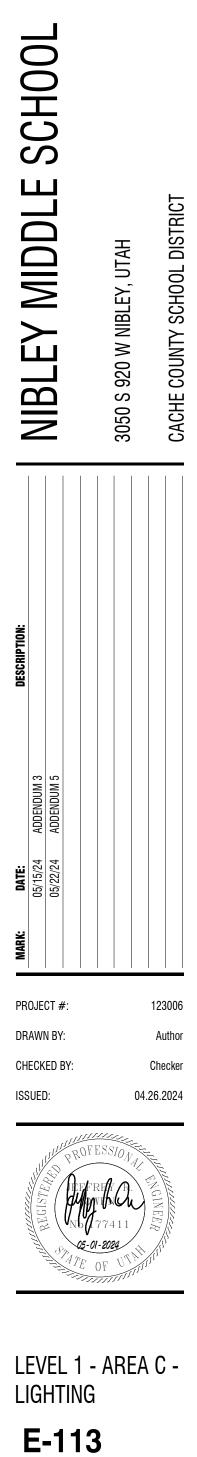
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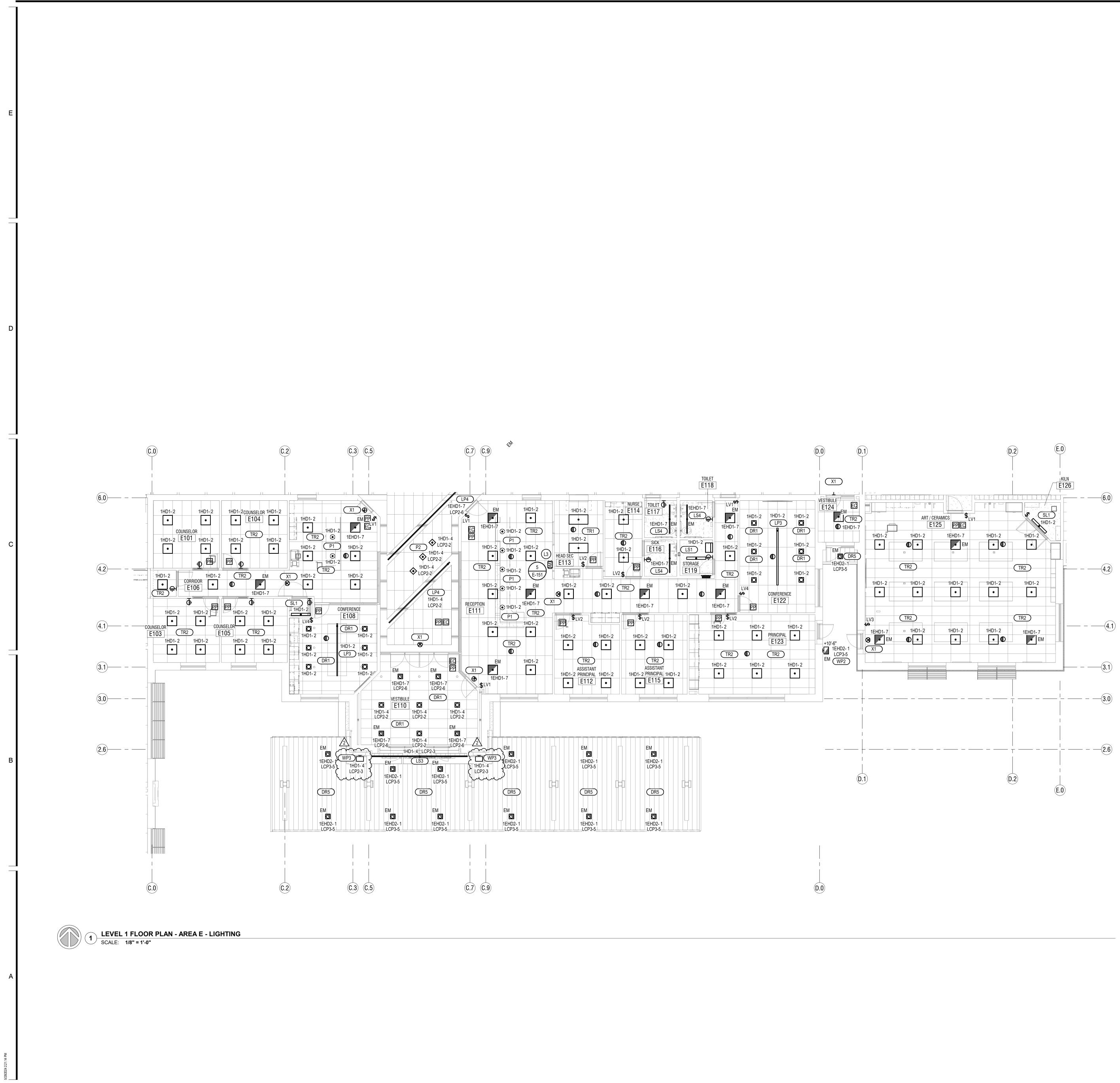






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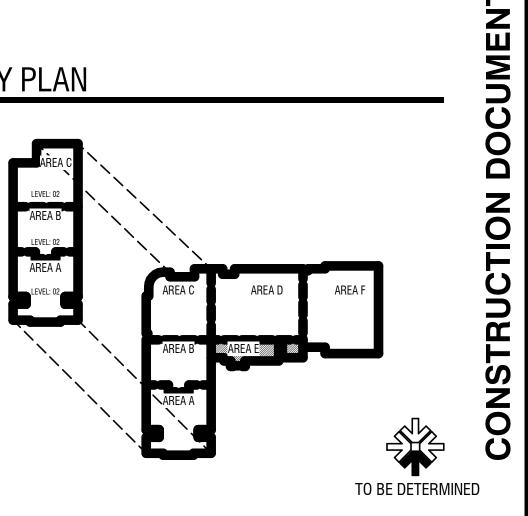
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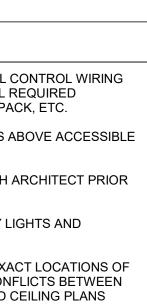
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KEYED NOTES (#)							
L3	DMX CONTROLLER TO CONTROL RGB LIGHTS IN BOTH STAIRS AND RGB LIGHTS IN CORRIDOR C106.						

LIGHTING GENERAL NOTES:

KEY PLAN

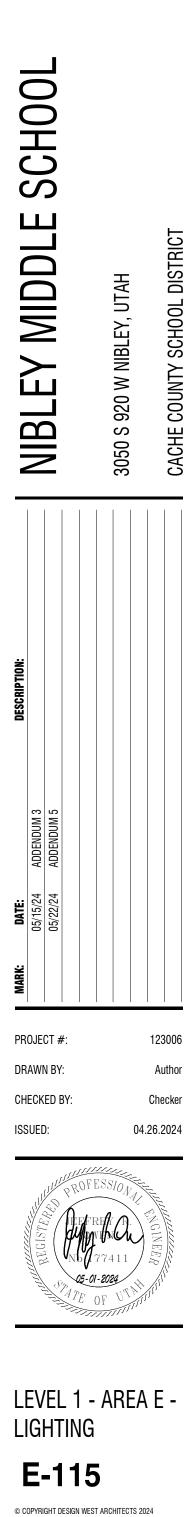


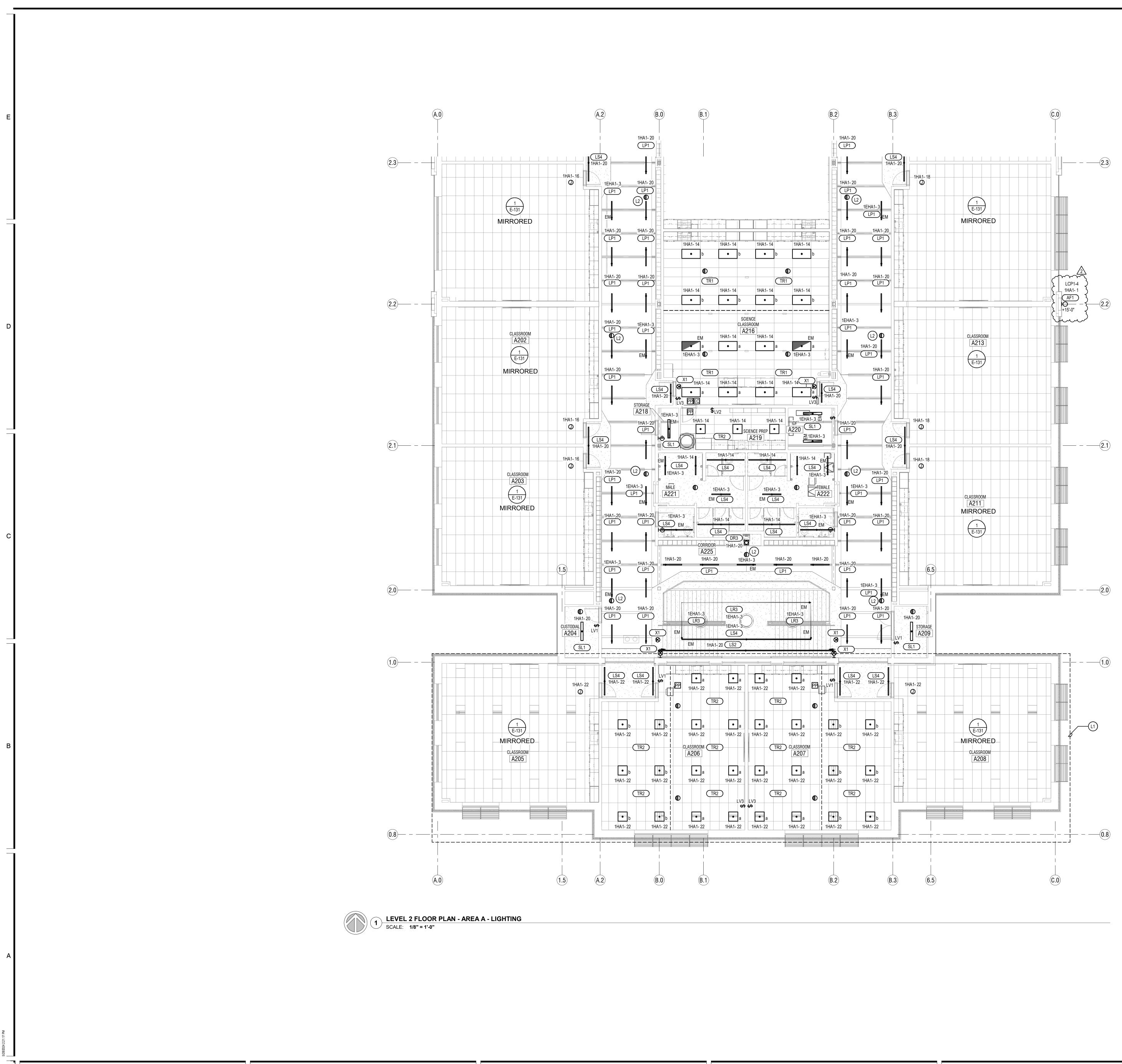
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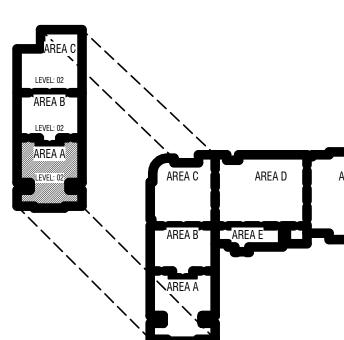








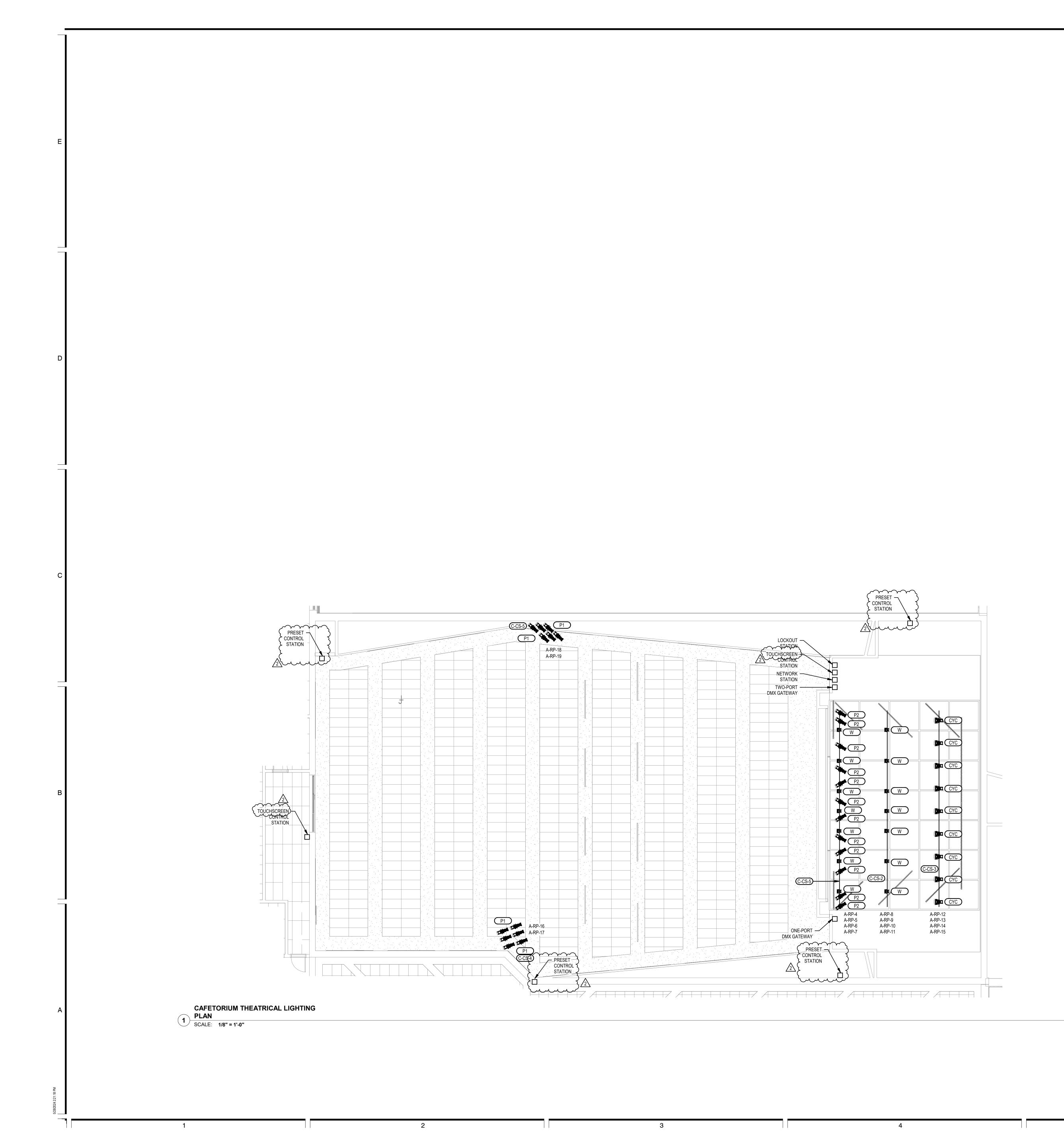
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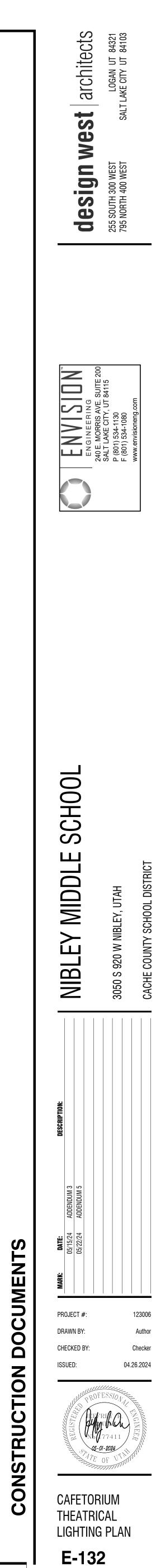


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UNDER THE BASE BID, INCLUDE ALL WORK IN THIS AREA AS SHOWN O THE PLANS. UNDER ALTERNATE #1, THIS AREA WILL BE REMOVED FRO THE PROJECT. PROVIDE A SEPARATE COST TO BE ISSUED AS A CREDI FOR ALL WORK IN THIS AREA AS SHOWN ON THE PLANS.	DM			
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			SA SA) T) (M
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Y PLAN	DOCUMENTS	PROJECT #:		123006 Author
LEVEL: 02		DRAWN BY: CHECKED BY: ISSUED:		Author Checker 26.2024
AREA B	CONSTRUCTION	Martin PRO	FESSIONAL	
AREA C AREA D AREA F	RUC	REGISTERATION	-01-2024	NGINEER
AREA B AREA E	ISN	A STATE	OF UTAN	<u>را، .</u>
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TO BE DETERM	INEU	LIGHTING		





TRICAL I	LIGHT FIX	TURE SCHEDULE
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	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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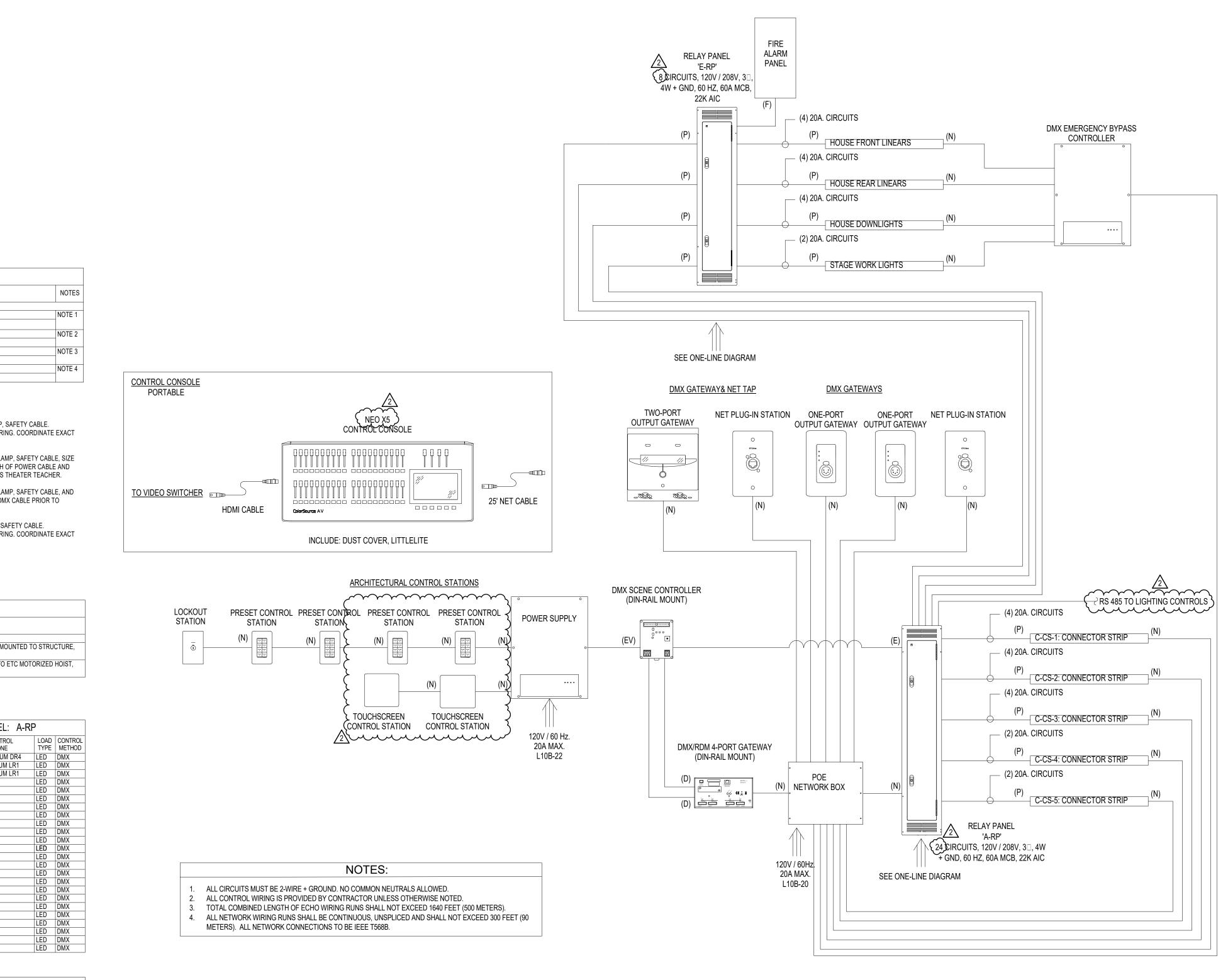
	THEATRICAL CONTROLS
TYPE	DESCRIPTION
	<u>.</u>
C-CS-1, 2, 3	CONNECTOR STRIP: (1) 50' CONNECTOR STRIP, (24) PBG OUTLETS, SURFACE MOUNTED HANGING BRACKETS, (4) SWITCHED CIRCUITS, (1) DMX OUTPUT GATEWAY
C-CS-4, 5	CONNECTOR STRIP: (1) 16' CONNECTOR STRIP, (8) PBG OUTLETS, MOUNTED TO ETC MO HANGING BRACKETS, (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	Ρ
СКТ	CONTROL ZONE	L
1	PROSCENIUM DR4	LE
2 3	CAFETORIUM LR1	LE
	CAFETORIUM LR1	LE
4	C-CS-1	LE
5	C-CS-1	LE
6	C-CS-1	LE
7	C-CS-1	LE
8	C-CS-2	LE
9	C-CS-2	LE
10	C-CS-2	LE
11	C-CS-2	LE
12	C-CS-3	LE
13	C-CS-3	LE
14	C-CS-3	LE
15	C-CS-3	LE
16	C-CS-4	LE
17	C-CS-4	LE
18	C-CS-5	LE
19	C-CS-5	LE
20	SPARE	LE
21	SPARE	LE
22	SPARE	LE
23	SPARE	LE
24	SPARE	LE

WIRING LEGENE							
SYMBOL	WIRE TYPE	9					
(D)	(1) BELDEN 9729	1					
(N)	(1) BELDEN 1583A	1					
(E)	(1) BELDEN 8471 (1) #14 AWG. STRANDED						
(P)	2#12 AWG 1#12 AWG GND. (UPSIZE FOR VOLTAGE DROP)						
(EV)	(1) BELDEN 8471 (1) #14 AWG STRANDED (2) #16 AWG STRANDED						

2



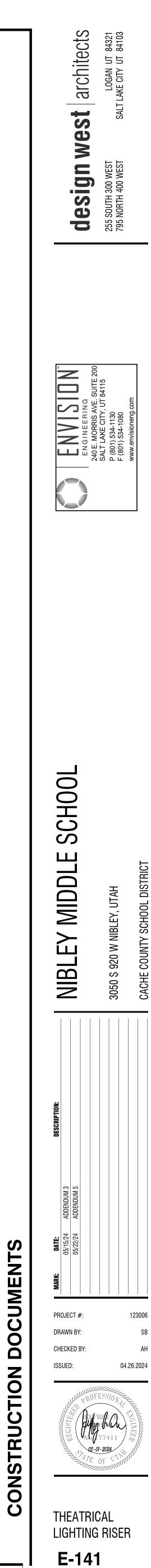
SIGNAL DMX NETWORK 120V POWER

2 COMMONS THEATRICAL LIGHTING RISER DIAGRAM SCALE: NTS

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	DESCRIPTION	LIGHT FIX	LOAD	APPROVED MANUFACTURERS	CATALOG NUMBER / SERIES	(LP3)	 DECORATIVE PENDANT MOUNTED LED LINEAR LIGHT FIXTURE WITH DIRECT / INDIRECT DISTRIBUTION. DIRECT AND INDIRECT LIGHTING ARE TO BE ON SEPARATE SWITCHES. LENGTH AS SHOWN ON DRAWINGS. 	LED 1200 LM / FT DN 400 LM / FT/ UP 0-10V DIMMING 4000 K	277 V 20 W / FT	ECOSENSE AYO	RP2-4-B-09DN/03UP-L40-UNV-D-2C-FRF-SCAB-XX GAZ-CS-B-44-M-PSB-4-X-940-L-L-VL-SB-1D-B-MF-S		
	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		PENDANT-MOUNTED LED LINEAR LIGHT FIXTURE. WITH				Marine S12200		
(AB1)		4000 K		RAGNI LIGHTING	CIK-16-C-42"-35-50-TX-1-S-STANDARD		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 S		
								4000 K		EXTANT ARCH. LIGHTING	HTG-1P-TD-DT-XX-SLO-1250-840-MEODF-VU-D- STANDARD FINISH-AC-XX		
	WALL MOUNTED EXTERIOR LED FLOOD LIGHT FIXTURE	LED 1200 LM	277 V	ECOSENSE	F170-1S-LO-40-8-E1-X-F-C		1" WIDE LINEAR RECESSED LED RGBW LIGHT FIXTURE	LED	277 V	LUMENWERX QTRAN	VIA2P-D-HLO-FH-NA-SW-80-1250-NA-40-**-UNV-D		
(AF1)	WITH 15 X 60 BEAM ANGLE AND FULL SNOOT. MOUNTED ON	1200 LM 0-10 V DIMMING 4000 K	13 W				WITH WHITE LENS AND MUD-IN TRIM. LENGTH AS SHOWN ON DRAWINGS.	400 LM / FT OF WHITE DMX	12 W	OMNI LIGHT	HUE-RGB412-H02-XX OCH-068R-XX-OM APO-XX-I HUE-DMX-CONTROLLER-STANDARD FINISH		
				LUMASCAPE	LS5330 - 15D 840 WH S 13 PS 016			RGBW		KELVIX	HUE-DMX-DECODER		
\sim	NOT USED	-	+		h					XICO			
					3		LINEAR RECESSED LED LIGHT FIXTURE WITH 2.5" W x 2.5" H REGRESSED NOTEH LENGTH AS SHOWN ON CRAWINGS. OUTSIDE 90-DEGREE MITERED CORNER	LED 500 LM / FT 0-10V DIMMING	277 V 5 W / FT	FLUXWERX PMC LIGHTING	NT1-L-02-B-A-40-F2-M-X S9062-D-FL/TRM-40K-070-XX'-SCBA-UNV-OE		
(AF2)					ξ		UP WALL AS SHOWN ON PLANS.	4000 K					
<u>~~~~</u> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							2" WIDE MUD-IN RECESSED LED LINEAR LIGHT	LED	277 V	PINNACLE NULITE	CRD-840-X-SF-2-EL1-1-SCBA RM2-06-L35-UNV-D-1C-FRF-WH-XX'		
	LED POLE MOUNTED LIGHT FIXTURE WITH TYPE 4 DISTRIBUTION, HOUSE SIDE SHIELD AND 20', NON-TAPERED STEEL POLE.	20,000 LM 0-10 V DIMMING	277 V	MCGRAW-EDISON	GLAN-SA2C-740-U-T4-SCBA-SPB2-SSP20 (MCGR, KW)-HSS		FIXTURE. LENGTH AS SHOWN ON DRAWINGS. FACTORY MITERED CORNERS.	800 LM / FT 0-10V DIMMING 4000 K	8 W / FT	AXIS LIGHTING INC.	B2SQRLED-750-80-35-SO-X-W-UNV-DP-1-DF		
		4000 K		GARDCO	OPF-M-A14-740-T4M-AR1-UNV-STANDARD FINISH-HSS					MARK LIGHTING	SL2L LOP *FT FLP GB 80CRI 35K 800LMF MIN1 27 VIA2R-D-HLO-FH-SW-80CRI-750LMF 35K-*FT-UNV-		
(AP1)				LITHONIA	RSX2 LED P3 40K R4 MVOLT SPA HS NLTAIR2 PIRHN DDBXD / SSS 20 4C DM19AS DDBXD		2" WIDE MUD-IN RECESSED RGBW LED LINEAR LIGHT	LED	277 V	PRUDENTIAL	D1-1C-DMF-W BPR02-REC-FLSH-CHR-HO-XX'-SCBA-WWF-LP-S		
				BEACON PRODUCTS, INC.	VP-2-320L-210-4K7-4-UNV-ASQU-SCBA SHD 2-HSS-XXX-SCBA SSSB20-40A-1-B3-SCB	(LR4)	FIXTURE WITH ASYMMETRIC OPTIC. LENGTH AS SHOWN ON DRAWINGS. TIE TO DMX CONTROLLER IN RECEPTION E111.	400 LM / FT OF WHITE DMX	12 W / FT	AXIS LIGHTING INC.	UNV-X7-EDMX		
	LED POLE MOUNTED LIGHT FIXTURE WITH TYPE 4		277 \/					RGBW		MARK LIGHTING DAY-O-LITE	PRFL-24-D-FL-RGBW-LO-X-TRL-W-DIM10		
	LED POLE MOUNTED LIGHT FIXTURE WITH TYPE 4 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-T4-SCBA-SPB2-SSP20 (MCGR, KW)		2" WIDE MUD-IN RECESSED LED LINEAR LIGHT FIXTURE. LENGTH AS SHOWN ON DRAWINGS.	LED 800 LM / FT	277 V 8 W / FT	PRUDENTIAL	BPRO2-REC-FLSH-LED4-SO-XX'-SCBA-WWF-LP-S UNV-X7-DMX		
		4000 K		GARDCO	OPF-M-A14-740-T4M-AR1-UNV-STANDARD FINISH	LR5	FACTORY MITERED CORNERS.	DMX 4000 K		AXIS LIGHTING INC.			
(AP2)				LITHONIA	RSX2 LED P3 40K R4 MVOLT SPA NLTAIR2 PIRHN DDBXD / SSS 20 4C DM19AS DDBXD VP-2-320L-210-4K7-4-UNV-ASQU-SCBA					MARK LIGHTING DAY-O-LITE	PRFL-24-D-FL-40-HO-X-TRL-W-DIM10		
				BEACON PRODUCTS, INC.	VP-2-320L-210-4K7-4-UNV-ASQU-SCBA SSSB20-40A-1-B3-SCB		1" WIDE SURFACE MOUNTED LED LINEAR LIGHT FIXTURE WITH WHITE LENS AND CORNER MOUNT	LED 500 LM / FT	277 V 5 W	QTRAN	ARKA-LL1SW-5.0-35-DRY-STD-DF-1S-BW-CLS-WH SST-ST-XX' DRIVER		
	LED POLE MOUNTED LIGHT FIXTURE WITH TYPE 5	LED	277 V		GLAN-SA2C-740-U-T5-SCBA-SPB2-SSP20 (MCGR,	(LS1)	CHANNEL. LENGTH AS SHOWN ON DRAWINGS.	0-10V DIMMING 4000 K		OMNI LIGHT	GEN2-35-HO-XX OCH-006-XX-OM-APO-XX-E-24		
	DISTRIBUTION AND 20', NON-TAPERED STEEL POLE.	20,000 LM 0-10 V DIMMING	185 W	MCGRAW-EDISON	KW)-HSS					KELVIX	006 I **" DK 35K WHR CP SV ULV CHAC2-F-WH/RB-90-SWS220-5.0-35-		
		4000 K		GARDCO	OPF-M-A14-740-T5M-AR1-UNV-STANDARD FINISH-HSS RSX2 LED P3 40K R5 MVOLT SPA HS NLTAIR2 PIRHN		5" W x 4' L SURFACE MOUNTED LED LINEAR LIGHT	LED	277 V	XICO	1-FI-*FT 0-10V DIMMING		
(AP3)					RSX2 LED P3 40K R5 MVOLT SPA HS NLTAIR2 PIRHN DDBXD / SSS 20 4C DM19AS DDBXD VP-2-320L-210-4K7-5QW-UNV-ASQU SCBA SSSB20		FIXTURE WITH WRAP AROUND LENS.	4000 LM 0-10V DIMMING	40 W	LUMINAIRE	VPF4L LSL *FT MSL4 MIN10 50W 40K MVOLT OP V		
				BEACON PRODUCTS, INC.	VP-2-320L-210-4K7-5QW-UNV-ASQU SCBA SSSB20 40A-1-B3-SCBA			4000 K		HE WILLIAMS	AVX-4-L62/840-CPC-(L50)-DIM-UNV		
	LED POLE MOUNTED LIGHT FIXTURE WITH TYPE 2	LED	277 V		GLAN-SA2C-740-U-T2-SCBA-SPB2-SSP20 (MCGR,		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	185 W	MCGRAW-EDISON	KW)-HSS		LIGHT FIXTURE WITH WHITE LENS.	400 LM / FT 0-10V DIMMING 4000 K	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		א טטטד ת		ACOLYTE LED	CHAC2-W-SCBA-RB-0-SWS265-3.0-40 / DRIVER		
(AP4)					RSX2 LED P3 40K R2 MVOLT SPA HS NLTAIR2 PIRHN 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		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	QTRAN OMNI LIGHT	WIDE-ST-SST-DF-NI-XX' QZ DRIVER GEN2-35-SHO-XX OCH-SCS-XX-OM-AL-APO-XX-E		
	LED POLE MOUNTED LIGHT FIXTURE WITH TYPE 2	LED	277 V		GLAN-SA2C-740-U-T2-SCBA-SPB2-SSP12 (MCGR,	LS4		טטטד ת		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	80 W	MCGRAW-EDISON	KW)-HSS					XICO	NSQ95-S-*FT-MWH-E1-OFL-S80-35-DLAM-75-UNV FD01-NN-RLDB-NN-SC1-		
		4000 K		GARDCO	OPF-M-A14-740-T2M-AR1-UNV-STANDARD FINISH-HSS RSX2 LED P3 40K R2 MVOLT SPA HS NLTAIR2 PIRHN	$\left\{ \begin{array}{c} \\ \end{array} \right\}$	NOT USED						
(AP5)					DDBXD / SSS 12 4C DM19AS DDBXD VP-2-320L-210-4K7-2-UNV-ASQU-SCBA	(LS5)							
				BEACON PRODUCTS, INC.	SHD 2-HSS-XXX-SCBA SSSB20-40A-1-B3-SCB								
	4" ROUND DOWNLIGHT FIXTURE WITH 60-DEGREE	LED	277 V		НСА	22 Jun	4 WALL MOUNTED LED LINEAR LIGHT FIXTURE WITH 2 ~ x 2" PROFILE & WHITE LENS. DIRECT DISTRIBUTION	LED LM / FT	277 13 W / FT	NULITE	RW24-D-STF-12-L40-UNV-D-1-SCBA-XX'		
	BEAM, WHITE TRIM AND REFLECTOR	1500 LM 0-10 V DIMMING 4000 K	15 W	HALO COMM GOTHAM	HC4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW		ONLY	NON-DIMMING 4000 K		BARTCO	BSS214 **' 40 D H WD SN SCBA		
DR1		4000 K		LIGHTOLIER	4RN Z4RDL15940WOCDZ10U	LW1				AXIS LIGHTING	B2SQWDLED-1000-80-40-SO-4-STANDARD FINISH-UNV-DP-1		
				PRESCOLITE	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H					STARTEK	SLIMD-4-1000-SD-40K-80-PW-AWM-U-1C		
			277 V	HALO COMM	HC4		DECORATIVE LED PENDANT MOUNTED LIGHT FIXTURE. 3" W x 12" H	LED 1500 LM	277 V 15 W	OXYGEN	3-653-XXX-4000K		
	4" ROUND DOWNLIGHT FIXTURE. WITH WHITE	LED	15 W	GOTHAM	EVO4SH 40/15 DFR SOL MVOLT EZ1	(P1)		NON-DIMMING	NON-DIMMING		EUREKA		
	4" ROUND DOWNLIGHT FIXTURE. WITH WHITE DEADFRONT LENS FOR SHOWER.	LED 1500 LM 0-10V-DIMMING 4000 K						4000 K	4000 K	4000 1		LINDSLEY	4233-XB LED 40 277V DV C 36 RC SCBA SCBA WH LRD.PN.06.40.10.XX.H12.XX.XX.0-10V
DR2		1500 LM 0-10V-DIMMING		LIGHTOLIER	4RN P4RSL15940MCDZ10U					LINDSLEY CONTECH			
DR2		1500 LM 0-10V-DIMMING		LIGHTOLIER PRESCOLITE	4RN P4RSL15940MCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH- WTACL/LFR-4RD-H		VERTICALLY MOUNTED 4' LONG PENDANT MOUNTED	LED	277 V		LRD.PN.06.40.10.XX.H12.XX.XX.0-10V		
DR2	DEADFRONT LENS FOR SHOWER. 2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE	1500 LM 0-10V-DIMMING 4000 K	277 V		LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-		VERTICALLY MOUNTED 4' LONG PENDANT MOUNTED LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES.		277 V 8 W / FT	CONTECH	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101		
	DEADFRONT LENS FOR SHOWER.	1500 LM 0-10V-DIMMING 4000 K	277 V 8 W	PRESCOLITE	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH- WTACL/LFR-4RD-H	P2	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE	LED 400 LM / FT 0-10V DIMMING		CONTECH	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF		
DR2 DR3	DEADFRONT LENS FOR SHOWER. 2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE	LED 700 LM 0-10V-DIMMING 4000 K	277 V 8 W	PRESCOLITE ALPHABET LITHONIA LIGHTOLIER	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH- WTACL/LFR-4RD-H NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U	P2	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE	LED 400 LM / FT 0-10V DIMMING		CONTECH ECOSENSE	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8		
	DEADFRONT LENS FOR SHOWER. 2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE	LED 700 LM 0-10V-DIMMING 4000 K	277 V 8 W	PRESCOLITE ALPHABET LITHONIA	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH- WTACL/LFR-4RD-H NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW	P2	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE	LED 400 LM / FT 0-10V DIMMING 4000 K LED 200 LM OF WHITE	8 W / FT	CONTECH ECOSENSE	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF		
	DEADFRONT LENS FOR SHOWER. 2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE	1500 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K	277 V 8 W 277 V 20 W	PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET ALPHABET	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH- WTACL/LFR-4RD-H NU3 LDN3 40/10 LO3AR LSS MVOLT UGZ10 TRW 3RN P3RDL07940CDZ10U	P2 SC1	LIGHT FIXTURE WITH 3 LIGHT BARS AND WHITE LENSES.	LED 400 LM / FT 0-10V DIMMING 4000 K	8 W / FT	CONTECH ECOSENSE AYO LIGHTING	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF FINISH-W		
	DEADFRONT LENS FOR SHOWER. 2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE.	1500 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K	8 W 277 V	PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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.	LED 400 LM / FT 0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX	8 W / FT	CONTECH ECOSENSE AYO LIGHTING	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF FINISH-W		
DR3	DEADFRONT LENS FOR SHOWER. 2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE.	1500 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K	8 W 277 V	PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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	LED 400 LM / FT 0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW	8 W / FT 277 V 20 W 277 V	CONTECH ECOSENSE AYO LIGHTING ALPHABET	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W		
DR3	DEADFRONT LENS FOR SHOWER. 2" ROUND DOWNLIGHT FIXTURE. WITH 40-DEGREE BEAM, WHITE TRIM AND REFLECTOR. 4" SQUARE LED WALL WASH DOWNLIGHT FIXTURE.	1500 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED	8 W 277 V 20 W 277 V	PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS I ALPHABET LITHONIA LIGHTOLIER PRESCOLITE PRESCOLITE ALPHABET LIGHTOLIER PRESCOLITE	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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.	LED 400 LM / FT 0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW	8 W / FT	CONTECH ECOSENSE AYO LIGHTING ALPHABET AQUARII	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF 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	DEADFRONT LENS FOR SHOWER. 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	1500 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K	8 W 277 V 20 W	PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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	LED 400 LM / FT 0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW	8 W / FT 277 V 20 W 277 V	CONTECH ECOSENSE AYO LIGHTING ALPHABET AQUARII	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X		
DR3	DEADFRONT LENS FOR SHOWER. 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	1500 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K LED 2000 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	PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET LIGHTOLIER QOTHAM	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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 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.	LED 400 LM / FT 0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W	CONTECH ECOSENSE AYO LIGHTING AYO LIGHTING ALPHABET AQUARII DALS	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAR 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		
DR3 DR4	DEADFRONT LENS FOR SHOWER. 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" 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.	1500 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K LED 2000 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	PRESCOLITE PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H NU3 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 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.	LED 400 LM / FT 0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K	8 W / FT 277 V 20 W 277 V 8 W	CONTECH ECOSENSE AYO LIGHTING AYO LIGHTING AUPHABET AQUARII DALS DALS LIGHTWAY	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF 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 CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF		
DR3 DR4	DEADFRONT LENS FOR SHOWER. 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	1500 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K LED 2000 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	8 W 277 V 20 W 277 V 15 W 277 V 15 W	PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS I ALPHABET LITHONIA LIGHTOLIER PRESCOLITE I ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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 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.	LED 400 LM / FT 0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W	CONTECH ECOSENSE AYO LIGHTING AYO LIGHTING AUPHABET AUPHABET AQUARII DALS DALS I I I I I I I I I I I I I I I I I I I	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF 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 CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF 6CR-TL-L40/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W		
DR3 DR4	DEADFRONT LENS FOR SHOWER. 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	1500 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 2000 LM 0-10V-DIMMING 4000 K LED 1500 LM 0-10V-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	PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE ALPHABET LIGHTOLIER PRESCOLITE PRESCOLITE PRESCOLITE PRESCOLITE PRESCOLITE	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H NU3 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 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 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.	LED 400 LM / FT 0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W	CONTECH ECOSENSE AYO LIGHTING AYO LIGHTING AUPHABET AQUARII AQUARII DALS LIGHTWAY METALUX LITHONIA	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF 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 CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF 6CR-TL-L40/840-STANDARD		
DR3 DR4 DR5	DEADFRONT LENS FOR SHOWER. 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	1500 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K LED 700 LM 0-10V-DIMMING 4000 K LED 2000 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	8 W 277 V 20 W 277 V 15 W 277 V 15 W	PRESCOLITEALPHABETLITHONIALIGHTOLIERCREATIVE SYSTEMSALPHABETLITHONIALIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITE	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H NU3 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 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 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.	LED 400 LM / FT 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	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W	CONTECH ECOSENSE AYO LIGHTING AYO LIGHTING AUPHABET ALPHABET AQUARII AQUARII DALS DALS UNAUY IIGHTWAY IIGHTWAY LIGHTWAY LIGHTWAY LIGHTWAY LUXRITE	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAFFINISH-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 CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF 6CR-TL-1.40/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K		
DR3 DR4 DR5	DEADFRONT LENS FOR SHOWER. 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	1500 LM 0-10V-DIMMING 4000 KLED 700 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 1500 LM 0-10V-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED LED	8 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 20 W 277 V 20 W	PRESCOLITEALPHABETLITHONIALIGHTOLIERCREATIVE SYSTEMSALPHABETLITHONIALIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERJALPHABETGOTHAMLIGHTOLIERJJ </td <td>LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H NU3 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 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 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-</td> <td>SC3</td> <td>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</td> <td>LED 400 LM / FT 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</td> <td>8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W 277 V 12 W / FT 277V</td> <td>CONTECH ECOSENSE AYO LIGHTING AYO LIGHTING AUPHABET ALPHABET AQUARII DALS DALS LIGHTWAY LIGHTWAY HE VILLIAMS COLUMBIA COLUMBIA</td> <td>LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF 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 ASNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF 6CR-TL-1.40/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS</td>	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H NU3 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 NU4-QW-SW-25LM-40K-80-WW-WH-WH-NC-UNV-DIM10 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. LED STRIP LIGHT FIXTURE WITH WHITE LENS. LENGTH AS SHOWN ON THE DRAWINGS. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS	LED 400 LM / FT 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	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W 277 V 12 W / FT 277V	CONTECH ECOSENSE AYO LIGHTING AYO LIGHTING AUPHABET ALPHABET AQUARII DALS DALS LIGHTWAY LIGHTWAY HE VILLIAMS COLUMBIA COLUMBIA	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF 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 ASNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF 6CR-TL-1.40/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS		
DR3 DR4 DR5 DR6	DEADFRONT LENS FOR SHOWER. 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.	1500 LM 0-10V-DIMMING 4000 KLED 700 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 200 LM OF WHITE DMX RGBW	8 W 277 V 20 W 277 V 15 W 277 V 15 W 277 V 20 W	PRESCOLITEALPHABETLITHONIALIGHTOLIERCREATIVE SYSTEMSIALPHABETLITHONIALIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEPRESCOLITEALPHABETGOTHAMLIGHTOLIERPRESCOLITEALPHABETGOTHAMLIGHTOLIERPRESCOLITEALPHABETGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEALPHABETGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITECOTHAMLIGHTOLIERPRESCOLITECOTHAMLIGHTOLIERPRESCOLITECOTHAMLIGHTOLIERPRESCOLITECOTHAMLIGHTOLIERPRESCOLITECOTHAMLIGHTOLIERPRESCOLITECOTHAMLIGHTOLIERPRESCOLITECOTHAMLIGHTOLIERCOTHAMLIGHTOLIERCOTHAMLIGHTOLIERCOTHAMLIGHTOLIERCOTHAMLIGHTOLIERCOTHAMLIGHTOLIERCOTHANCOTHANCOTHANCOTHANCOTHAN<	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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 ASN P4SLW20940WCDZ10U H 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 NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- 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. 2'X4' DECORATIVE LED TROFFER. 1" WIDE LENS	LED 400 LM / FT 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	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W 277 V 12 W / FT 277V	CONTECH CONTECH CONTECH CONTECH COSENSE COSENSE COSENSE COLUMBIA C	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAN 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 LRD.PN.450-LED-01C-4-STANDARD FINISH CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF 6CR-TL-140/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT		
DR3 DR4 DR5	DEADFRONT LENS FOR SHOWER. 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	1500 LM 0-10V-DIMMING 4000 KLED 700 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 1500 LM 0-NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM DMX RGBWLED 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	PRESCOLITEALPHABETLITHONIALIGHTOLIERCREATIVE SYSTEMSALPHABETLITHONIALIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEPRESCOLITEPRESCOLITEPRESCOLITEPRESCOLITEPRESCOLITEPRESCOLITEALPHABETGOTHAMLIGHTOLIERPRESCOLITEPRESCOLITEALPHABETGOTHAMLIGHTOLIERPRESCOLITEALPHABETALPHABETALPHABETALPHABETALPHABETALPHABETALPHABETALPHABETALPHABETALPHABETALPHABETALPHABETALPHABETALPHABETALPHABET	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H NU3 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-H-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ FR-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-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- NU4-RD-RGBW-10LM-35K-90-25D-CL-WH-WH-NC- NU4	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. 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	LED 400 LM / FT 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	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W 277 V 12 W / FT 277V 48 W 277V 277V	CONTECH CONTECH CONTECH CONTECH COUSENSE COSENSE COSEN	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAR 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 4SNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF 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		
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DR3 DR4 DR5 DR6	DEADFRONT LENS FOR SHOWER. 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	1500 LM 0-10V-DIMMING 4000 KLED 700 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 1500 LM NON-DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 1500 LM 0 KLED 1500 LM 0 KLED 1500 LM 0 KLED 1500 LM 0 MX 4000 KLED 1500 LM DMX 4000 K	8 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 20 W 277 V 20 W	PRESCOLITE PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE GOTHAM LIGHTOLIER PRESCOLITE PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE ALPHABET GOTHAM LIGHTOLIER PRESCOLITE GOTHAM LIGHTOLIER PRESCOLITE	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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 LDN4-R0-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 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H OHB-30SE-MFL-UNV-L840-CD-U	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. 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	LED 400 LM / FT 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 1250 LM / FT NON-DIMMING 4000 K	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W 277 V 12 W / FT 277V 48 W 277V 277V	CONTECH ECOSENSE AYO LIGHTING AYO LIGHTING AUPHABET AQUARII AQUARII DALS I METALUX LIGHTWAY I LUXRITE LOUVERS LED LITHONIA GREEN IMAGE I LUXRITE LUXRITE LUXRITE LUXRITE	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAR 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 CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF 6CR-TL-L40/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K LI-GRD-24-CCT LRR24187-4000K LR22187-4000K		
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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. 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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' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE.	LED 400 LM / FT 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 1250 LM / FT NON-DIMMING 4000 K	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W 277 V 8 W 277 V 8 W 277 V 12 W / FT 277V 48 W 277V 33 W 277V 277V	CONTECH ECOSENSE ECOSENSE AYO LIGHTING AYO LIGHTING AUPHABET AQUARII AQUARII DALS I METALUX LIGHTWAY I METALUX LITHONIA REQUURBIA COLUMBIA GREEN IMAGE LUXRITE LOUVERS LED LITHONIA GREEN IMAGE I METALUX I METALUX I	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAF FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-VCBA-VCBA-VCBA-VCBA-VCBA-VCBA-VCBA-V		
DR3 DR4 DR5 DR6 DR7	DEADFRONT LENS FOR SHOWER. 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 60-DEGREE BEAM, WHITE TRIM AND REFLECTOR 1"X4" LED PENDANT HIGH BAY FIXTURE WITH WHITE	1500 LM 0-10V-DIMMING 4000 K IED 700 LM 0-10V-DIMMING 4000 K IED 2000 LM 0-10V-DIMMING 4000 K IED 2000 LM 0-10V-DIMMING 4000 K IED 2000 LM 0-10V-DIMMING 4000 K IED 1500 LM NON-DIMMING 4000 K IED 1500 LM OF WHITE DMX RGBW IED 1500 LM DMX 4000 K IED 1500 LM DMX 4000 K IED 1000 LM / FT	8 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 15 W 277 V 20 W	PRESCOLITEALPHABETLITHONIALIGHTOLIERCREATIVE SYSTEMSALPHABETLITHONIALIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEITHONIAHE WILLIAMS	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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 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 CPHB 48000LM SEF GCL WD MVOLT GZ10 40K 0CH300/840-FA-DIM-UNV	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. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE.	LED 400 LM / FT 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 1250 LM / FT NON-DIMMING 4000 K	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W 277 V 8 W 277 V 8 W 277 V 12 W / FT 277V 48 W 277V 33 W 277V 277V	CONTECH ECOSENSE I AYO LIGHTING AYO LIGHTING ALPHABET AQUARII AQUARII I DALS I I DALS I	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAR FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-VC VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X SWS48-CC SWS48-CC NECW-450-LED-01C-4-STANDARD FINISH 4SNX-48SL-LW-UNV-L840-CD1-U AYC-CHAIN/SET CLX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF 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 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 Z2CGTX-35-L840 ZFPZ33L835-4-DS-UNV-DIM		
DR3 DR4 DR5 DR6 DR7	DEADFRONT LENS FOR SHOWER. 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 WHITE LENS AND IK10 RATING. PENDANT MOUNTED LED LINEAR LIGHT FIXTURE. WITH	1500 LM 0-10V-DIMMING 4000 K IED 700 LM 0-10V-DIMMING 4000 K IED 2000 LM 0-10V-DIMMING 4000 K IED 2000 LM 0-10V-DIMMING 4000 K IED 2000 LM 0-10V-DIMMING 4000 K IED 1500 LM NON-DIMMING 4000 K IED 1500 LM OF WHITE DMX RGBW IED 1500 LM DMX 4000 K IED 1500 LM DMX 4000 K IED 1500 LM DMX 4000 K	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 15 W 277 V 285 W 277 V 285 W 277 V	PRESCOLITEALPHABETLITHONIALIGHTOLIERCREATIVE SYSTEMSALPHABETLITHONIALIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEMETALUXLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEMETALUXLITHONIAHE WILLIAMSCOLUMBIACORELITE	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H NU3 LDN3 40/10 L03AR 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-H NU4-QW-SW-25LM-40K-80-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H 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 NU4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H OHB-30SE-MFL-UNV-L840-CD-U CPHB 48000LM SEF GCL WD MVOLT GZ10 40K 80CRI DWH GH-4-L300/840-FA-DIM-UNV PELA-840-L30-B-ED-U-PM S122DP	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. 2'X2' DECORATIVE LED TROFFER. 1" WIDE LENS AROUND THE PERIMETER OF THE GRID TILE.	LED 400 LM / FT 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 13300 LM 0-10V DIMMING 4000 K LED 3300 LM 0-10V DIMMING 4000 K LED 1000 LM UP	8 W / FT 277 V 20 W 277 V 8 W 277 V 8 W 277 V 8 W 277 V 8 W 277 V 12 W / FT 277V 48 W 277V 33 W 277V 277V	CONTECH ECOSENSE ECOSENSE AYO LIGHTING AYO LIGHTING AUPHABET AQUARII AQUARII DALS I METALUX LIGHTWAY I METALUX LITHONIA REQUURBIA COLUMBIA GREEN IMAGE LUXRITE LOUVERS LED LITHONIA GREEN IMAGE I METALUX I METALUX I	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAR FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-W VN-75-RGBW-18-D-STANDARD FINISH-M-2-N-X LCX VA-75-RGBW-18-D-STANDARD FINISH-M-2-N-X LCX L48 4000LM SEF RDL MVOLT GZ10 40K 80CF GCR-TL-140/840-STANDARD FINISH-DIM-UNV-OW-CS-CM24-S2458/W CSL4-LSCS LR24187-4000K		
DR3 DR4 DR5 DR5 DR6 DR7 HB1	DEADFRONT LENS FOR SHOWER. 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 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.	1500 LM 0-10V-DIMMING 4000 KLED 700 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 2000 LM 0-10V-DIMMING 4000 KLED 200 LM OF WHITE DMX RGBWLED 200 LM OF WHITE DMX RGBWLED 1500 LM 000 KLED 1500 LM 000 KLED 1500 LM 000 KLED 1500 LM 000 KLED 1500 LM 000 KLED 1500 LM 000 KLED 1000 LM 000 KLED 1000 LM 000 K	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 20 W 277 V 285 W 277 V 285 W 277 V 10 W / FT	PRESCOLITE ALPHABET LITHONIA LIGHTOLIER CREATIVE SYSTEMS ALPHABET LITHONIA LIGHTOLIER PRESCOLITE OTHAM LIGHTOLIER PRESCOLITE GOTHAM LIGHTOLIER PRESCOLITE METALUX LITHONIA HE WILLIAMS COLUMBIA CORELITE FINELITE AXIS LIGHTING LUMENWERX	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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-M-15L	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.	LED 400 LM / FT 0-10V DIMMING 4000 K LED 200 LM OF WHITE DMX RGBW LED 1000 LM NON-DIMMING 4000 K LED 1000 LM NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K LED 1250 LM / FT NON-DIMMING 4000 K LED 3300 LM 0-10V DIMMING 4000 K LED 3300 LM 0-10V DIMMING 4000 K	8 W / FT 277 V 20 W 20 W 20 W 20 W 20 W 277 V 8 W 277 V 8 W 277 V 12 W / FT 277 V 48 W 277 V 33 W 2777 X 33 W 2777 V 277 V 33 W	CONTECH CONTEC	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAN FINISH-W BETA-4R-RGBW-10LM-43K-90-25D-SCBA-SCBA-VCBA-VCBA-VCBA-VCBA-VCBA-VCBA-VCBA-V		
DR3 DR4 DR5 DR5 DR6 HB1	DEADFRONT LENS FOR SHOWER. 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 WHITE LENS AND IK10 RATING. PENDANT MOUNTED LED LINEAR LIGHT FIXTURE. WITH	1500 LM 0-10V-DIMMING 4000 K IED 700 LM 0-10V-DIMMING 4000 K IED 2000 LM 0-10V-DIMMING 4000 K IED 2000 LM 0-10V-DIMMING 4000 K IED 2000 LM 0-10V-DIMMING 4000 K IED 1500 LM NON-DIMMING 4000 K IED 1500 LM OF WHITE DMX RGBW IED 1500 LM DMX 4000 K IED 1500 LM DMX 4000 K IED 1000 LM / FT 0-10V DIMMING 4000 K	8 W 277 V 20 W 277 V 20 W 277 V 15 W 277 V 15 W 277 V 285 W 277 V 285 W 277 V	PRESCOLITEPRESCOLITEALPHABETLITHONIALIGHTOLIERCREATIVE SYSTEMSIALPHABETLITHONIALIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEGOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITECOTHAMLIGHTOLIERPRESCOLITEOTHAMLIGHTOLIERPRESCOLITECOLUMBIACOLUMBIAAXIS LIGHTING	LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SH-WTACL/LFR-4RD-H 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 Z4RDL15940WCDZ10U LFR-4RD-M-15L40K8-MD-DM1/LFR-4RD-T-SSWT/ LFR-4RD-H NU4 NU4-QH-SBW-10LM-35K-90-25D-CL-WH-WH-NC- UNV-DMX-RJ45 UNV-DMX-RJ45 UNV-DMX-RJ45 UNV-DMX-RJ45 UNV4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H UNV-DMX-RJ45 UNV-DMX-RJ45 UNV4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H UNV4 LDN4 40/15 LO4AR LSS MVOLT GZ10 TRW 4RN Z4RDL15940WOCDZ10U LFR-4RD-H GH4-L300/840-FA-DIM-UNV PELA-840-L30-B-ED-U-PM GH4-L300/840-FA-DIM-UNV PELA-840-L30-B-ED-U-PM	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.	LED 400 LM / FT 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	8 W / FT 277 V 20 W 20 W 20 W 20 W 20 W 277 V 8 W 277 V 8 W 277 V 12 W / FT 277 V 48 W 277 V 33 W 2777 X 33 W 2777 V 277 V 33 W	CONTECH CONTEC	LRD.PN.06.40.10.XX.H12.XX.XX.0-10V OFG101 Y3-CVS-4'-40K-VLO-UNV-10D-SCBA-MF-44-PSS-8 OPT-CS-3-44-B-PS-X-NL4'-840-VL-VL-1D-STANDAFF 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 SWS48-CC SWS48-CC SWS48-CC SWS48-CC SUS LLL 240/840-STANDARD FINISH SUS SUS LL 24187-4000K LLR24187-4000K 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 Z2CGTX-35-L840 Z2CGTX-35-L840 Z2CGTX-35-L840 Z2CGTX-35-L840 Z2CGTX-35-L840 Z1 Z1 Z2 Z2 Z2 Z2 Z2 Z2 Z2 Z2		

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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	
	SINGLE SIDED LED DIE CAST EXIT SIGN WITH GREEN	Lenn	how	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		EDG 2 GMR	
X4				MULE	MD-A-U-G-WW	
				ERAL NOTES		
	E ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCAT				ANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR	
O BIDDING.	UNTING HEIGHTS AND LOCATIONS OF ALL LIGHT FIXTURES	WITH ARCHITECTURA	L ELEVATIONS AN	D / OR ARCHITECT.		
. REFER TO TH	E SPECIFICATIONS FOR OTHER LIGHT FIXTURE REQUIREM NILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND C	ENTS.			CONFLICT AREAS TO THE ATTENTION OF THE	
	ELECTRICAL ENGINEER PRIOR TO RELEASE.					
RCHITECT AND					DESCRIPTION.	
RCHITECT AND ALL INTERIOR	LIGHT FIXTURES ARE TO BE 3500 K AND ALL EXTERIOR LIG TURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWI					
RCHITECT AND ALL INTERIOR ALL LIGHT FIX ALL LED SOUF	TURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWI RCES MUST MEET L80 AT 50,000 HRS MINIMUM UNLESS OTH	ERWISE NOTED.				
RCHITECT AND ALL INTERIOR ALL LIGHT FIX ALL LED SOUF CONFIRM ALL	TURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWI	ERWISE NOTED. ELEASE.				
ARCHITECT AND 5. ALL INTERIOR 5. ALL LIGHT FIX 7. ALL LED SOUF 3. CONFIRM ALL	TURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWI RCES MUST MEET L80 AT 50,000 HRS MINIMUM UNLESS OTH MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO R	erwise noted. Elease. It minimum.	G REQUIF	REMENTS		
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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.

	LIGHTING CONTROL PANEL SCHEDULE							
		LOCATION:	ELEC A120					
	TRANSFO	RMER VOLTAGE:	277					
		MOUNTING:	SURFACE					
		NEMA TYPE:	NEMA 1					
	RELAY	CIRCUIT	LOAD		METHOD OF	PROGRAMMING		
	NO.	BREAKER	CONTROLLED	POLES	CONTROL	REQUIREMENTS		
	1	1HA1-2	SITE POLE LIGHTING	1	SWITCHED			
	\sim			-1	SWITCHED	\sim		
$2 \langle 2 \rangle \langle 1 \rangle$	3	1HA1-1	VESTIBULE COLUMN LTG	1	SWITCHED			
{	4	1HA1-1	FLAG POLE LIGHT	1	SWITCHED			
Ì	- J	1EHA1-2	EM LTG BUILDING EXTERIOR	$ \rightarrow \rightarrow$	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	И) - TIME OFF (10:00 PM)					
	С		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	D 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 HE FINAL PROGRAMMING OF THE LIGH					

	14014	L MAINENIBY LIGHTING		SWITCHED				
3	1HD1-4	MAIN ENTRY SIGN LIGHTING		SWITCHED				
	m	m		SWITCHED	h			
5	1EHD1-3	EM LTG BUILDING EXTERIOR		SWITCHED]			
6	1EHD1-7	EM LTG CORRIDOR D106	1	SWITCHED				
7		SPARE	1	SWITCHED				
8		SPARE	1					
				<u> </u>	4			
A	`	M) - TIME OFF (7:00 PM), 2 HOUR OVEF	RRIDE A I	LOW VOLTAGE	SWITCH			
B	````	ME ON (5:00 AM) - TIME OFF (10:00 PM)						
<u> </u>	MANUAL ON - TIME OFF (5:30 PM)							
D	MANUAL ON - MANUAL OFF - SWEEP OFF AT END OF DAY (5:30 PM)							
	E TIME ON (7:30 AM) - MANUAL OFF - SWEEP OFF AT END OF DAY (5:30 PM) F PHOTO CELL ON - PHOTO CELL OFF							
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G	_	I - TIMED OFF (9:00 PM), 2 HOUR OVEF						
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		HE FINAL FROGRAMMINING OF THE LIG			IVI.			
		TING CONTROL PANE	L SCH	EDULE				
	PANEL NAME:							
	LOCATION:							
TRANSFO	ORMER VOLTAGE:							
	MOUNTING:							
	NEMA TYPE:	NEMA 1						
RELAY NO.	CIRCUIT BREAKER	LOAD CONTROLLED	POLES	METHOD OF CONTROL	PROGRAMMING			
NO.	11 1	CONTROLLED	POLES	CONTROL				
NO.	11 1							
NO.	11 1	CONTROLLED SPARE		CONTROL SWITCHED SWITCHED				
NO. 1 2 3	11 1	CONTROLLED SPARE SPARE SPARE		CONTROL 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

	LIG	ITING CONTROL PANE	_ SCH	EDULE			
	PANEL NAME:	LCP3					
	LOCATION:	ELEC D118					
TRANSFO	ORMER VOLTAGE:	277					
	MOUNTING:						
	NEMA TYPE:	NEMA 1					
RELAY NO.	CIRCUIT BREAKER	LOAD CONTROLLED	POLES	METHOD OF CONTROL	PROGRAMMIN REQUIREMEN		
1	1HD2-13	AUXILLARY GYM LTG ZONE 'a'		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				
А	TIME ON (6:00 AI	M) - TIME OFF (7:00 PM), 2 HOUR OVER	RRIDE AT	LOW VOLTAGE	SWITCH		
В	TIME ON (5:00 AI	M) - TIME OFF (10:00 PM)					
С	MANUAL ON - TI	ME OFF (5:30 PM)					
D	MANUAL ON - M	ANUAL OFF - SWEEP OFF AT END OF I	DAY (5:30	PM)			
Е	TIME ON (7:30 AI	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 HE FINAL PROGRAMMING OF THE LIGH					

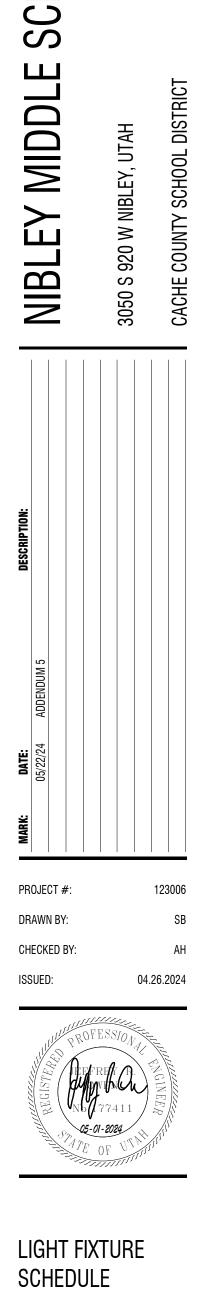
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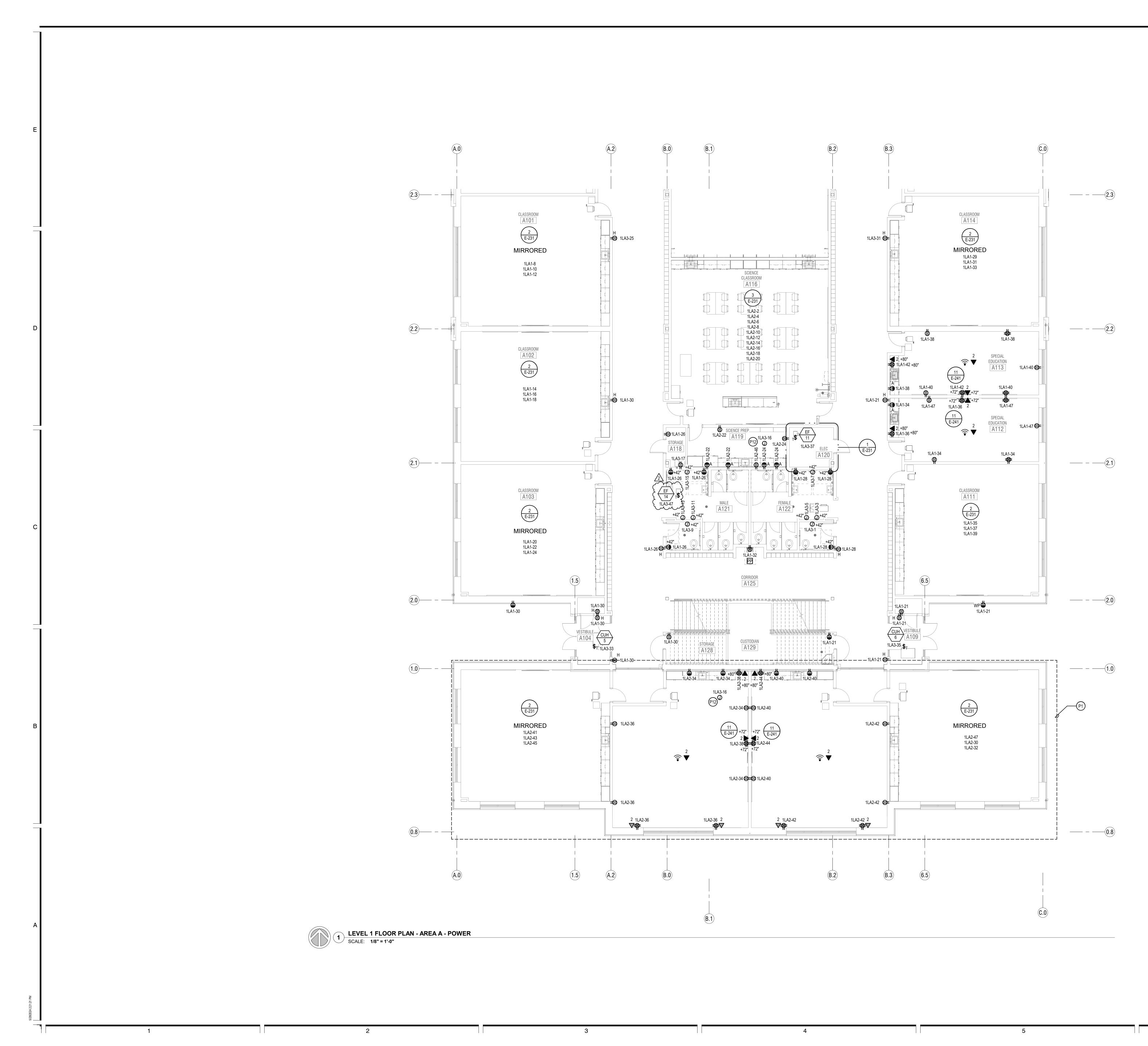


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POWER GENERAL NOTES:

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

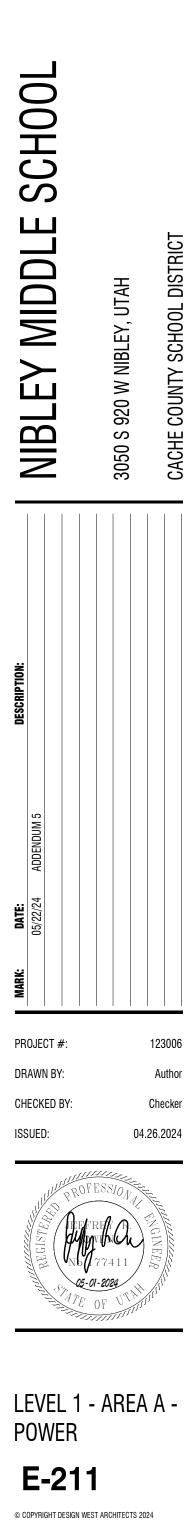
KEYED NOTES (#)

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

ANY SINK SHALL BE
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AREA AS SHOWN ON . BE REMOVED FROM SSUED AS A CREDIT ANS.
E EXACT LOCATION





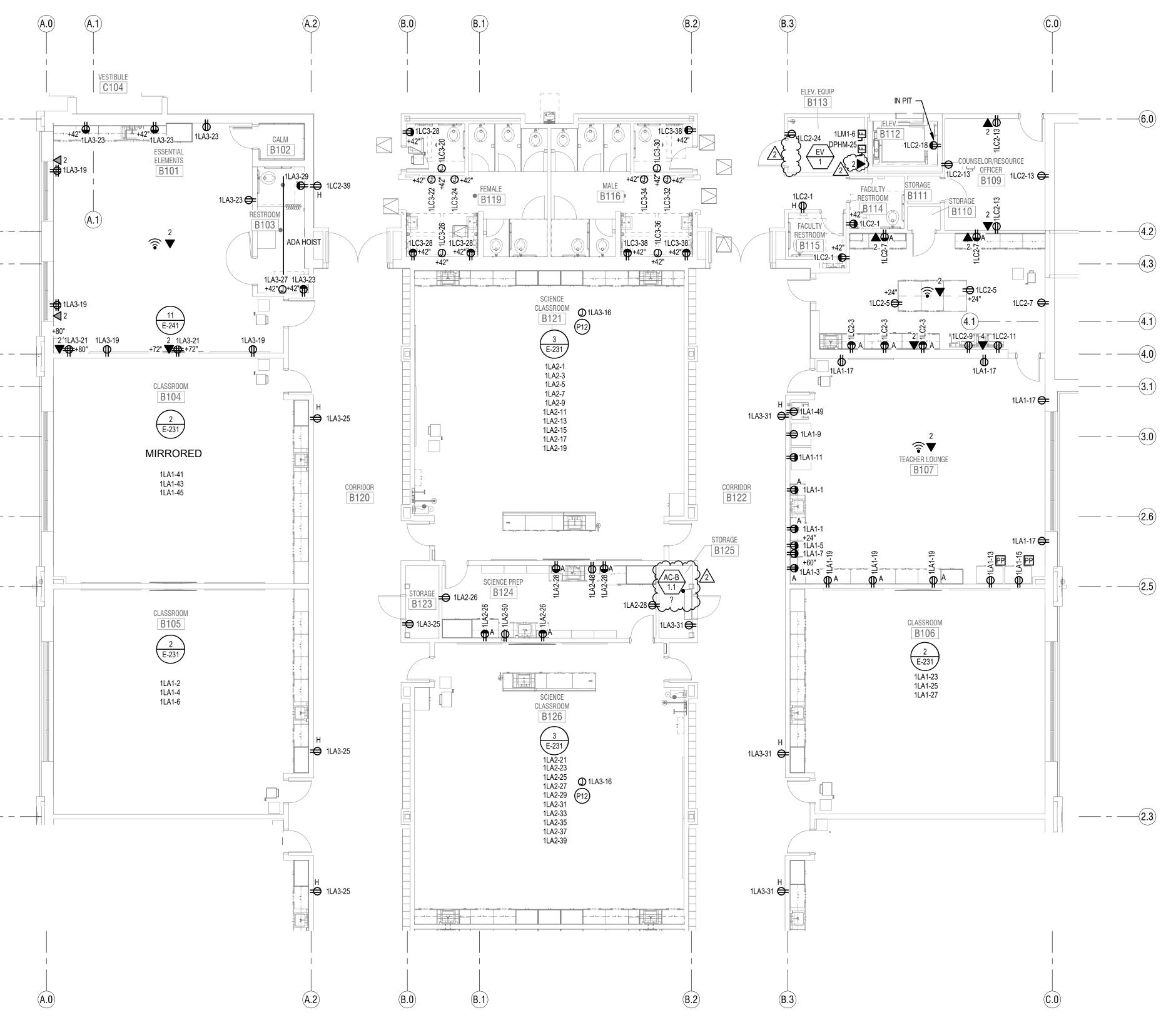


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REA B - POWER

POWER GENERAL NOTES:

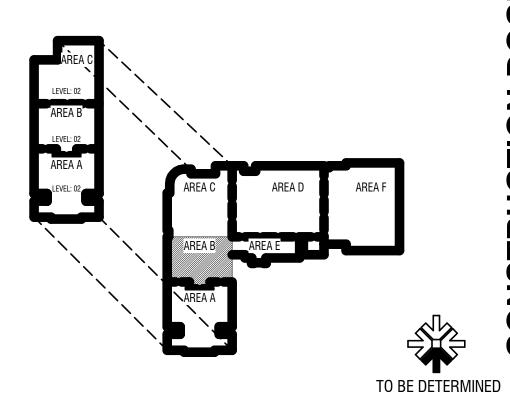
ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY GFCI. THE DIVISION 26 CONTRACTOR SHALL DETERMINE TH OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESEN REPRESENTATION OF DEVICE LOCATIONS AND COND

KEYED NOTES (#)

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

KEY PLAN

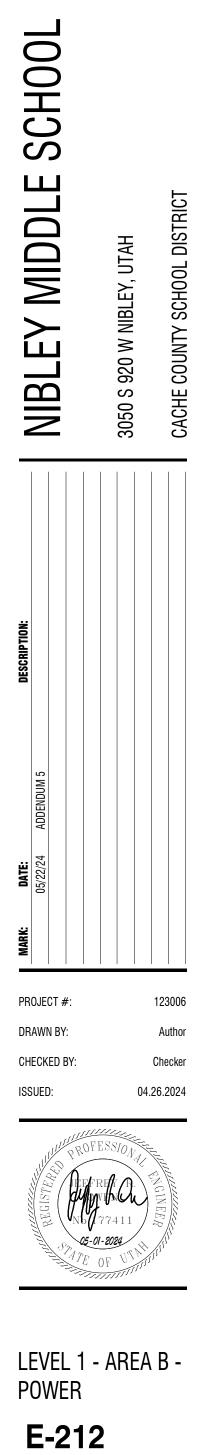
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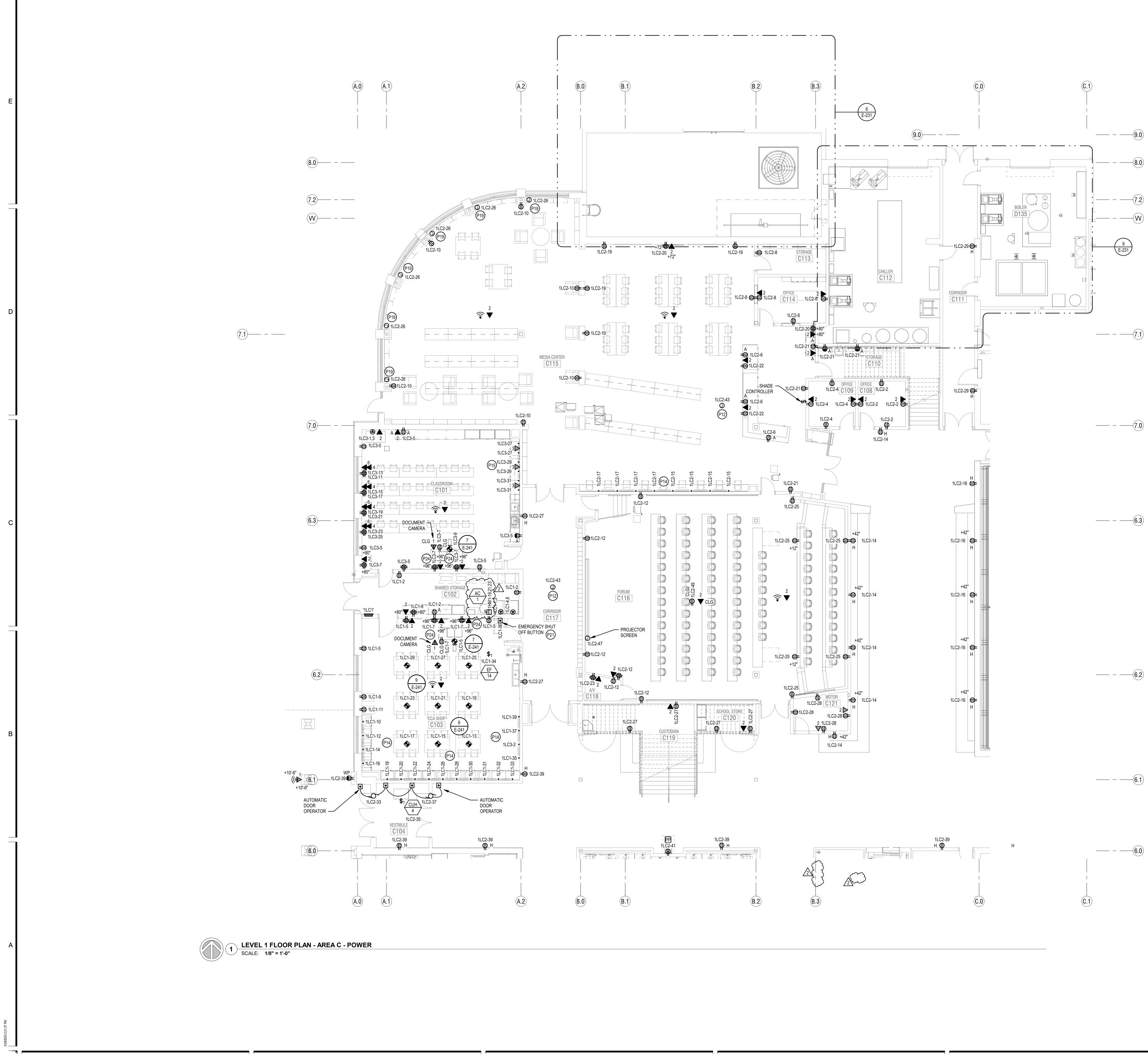
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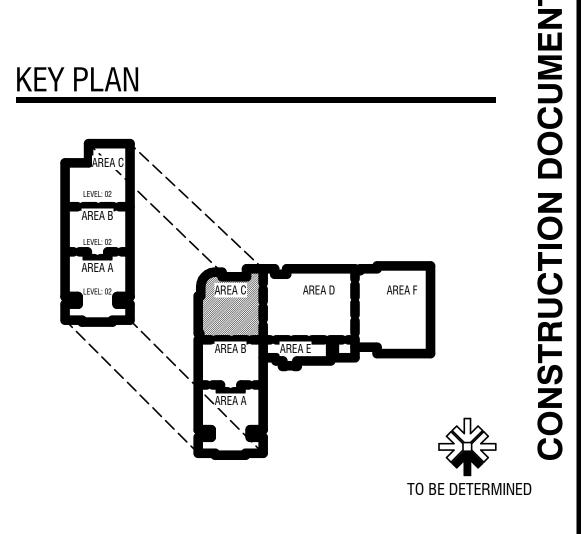


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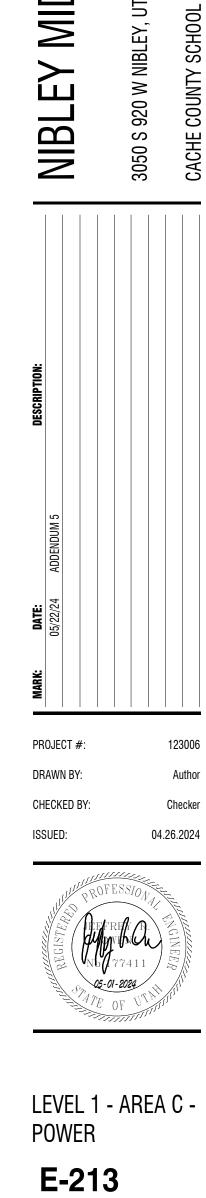
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POWER GENERAL NOTES:

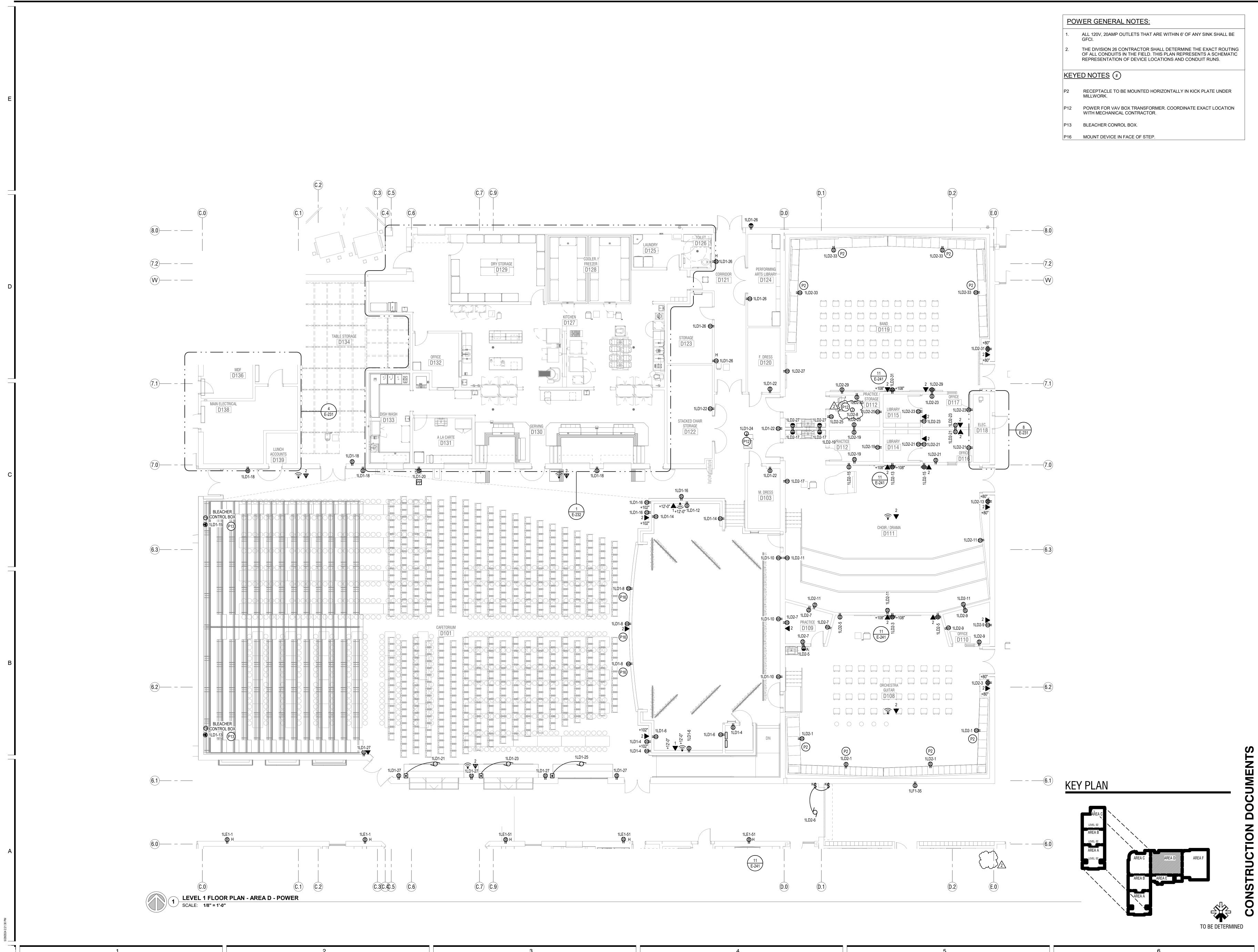
1.	ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF AI GFCI.
2.	THE DIVISION 26 CONTRACTOR SHALL DETERMINE TO OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESE REPRESENTATION OF DEVICE LOCATIONS AND CON
<u>KEYE</u>	DNOTES (#)
P12	POWER FOR VAV BOX TRANSFORMER. COORDINATE WITH MECHANICAL CONTRACTOR.
P14	WIREMOLD.
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.



F ANY SINK SHALL BE E THE EXACT ROUTING ESENTS A SCHEMATIC ONDUIT RUNS. ATE EXACT LOCATION ED THROUGH THE SHADE R TO THE IONAL INFORMATION. LLERS AND SHADE N WITH CLEAR ACT. TIE TO SHUNT TRIP T AND 480V, 3Ø OUTPUT	ENVISION Eventeeling	SUITE 200 84115 255 SOUTH 300 WEST 705 MODELL 400 WEST
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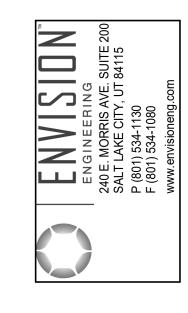


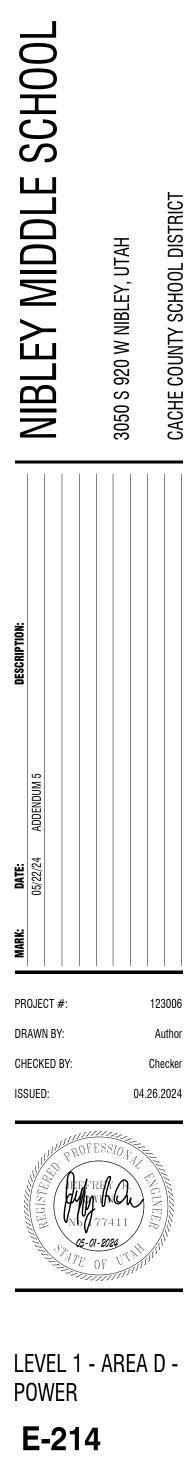
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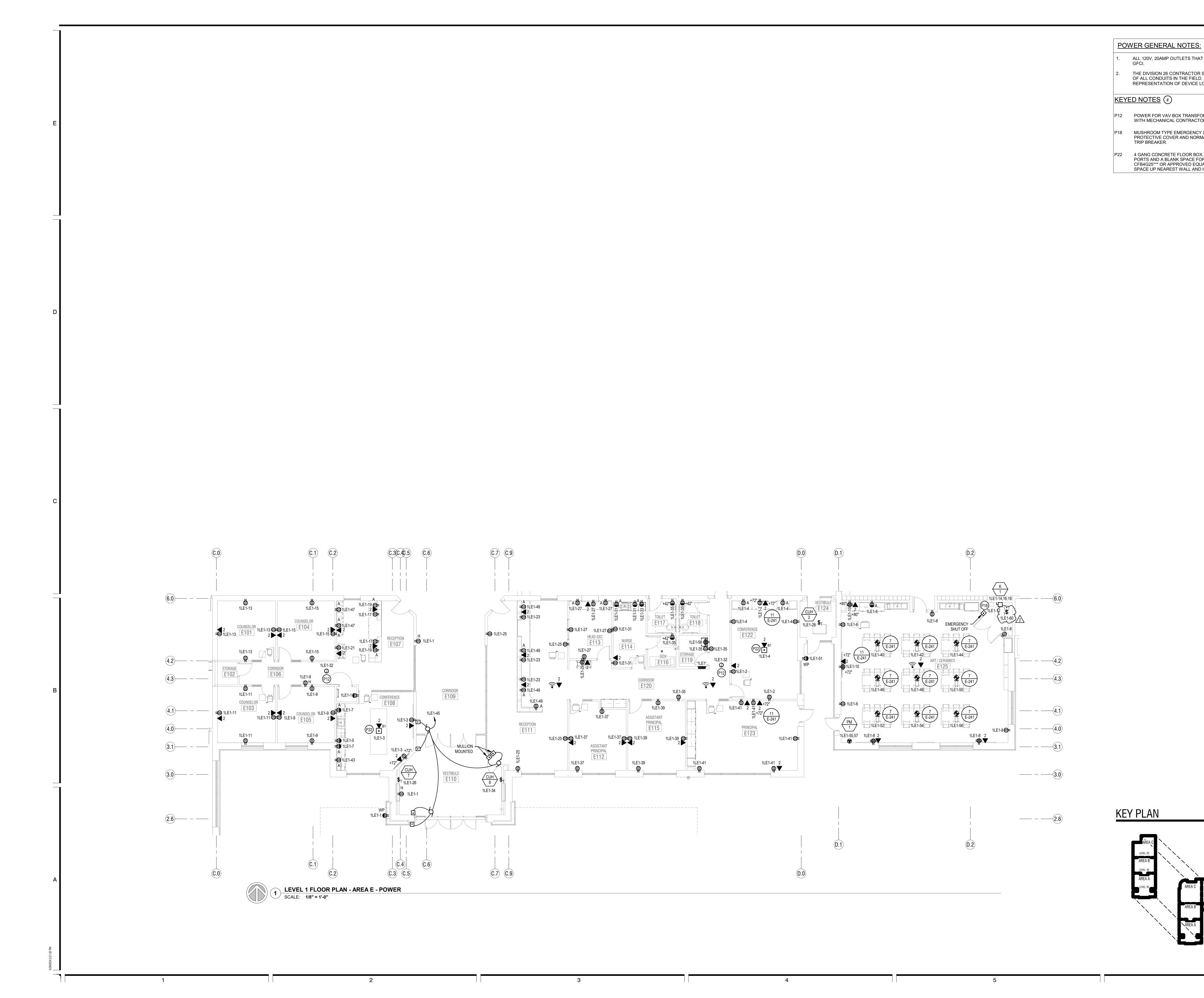
1.	ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF AN GFCI.
2.	THE DIVISION 26 CONTRACTOR SHALL DETERMINE TH OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESE REPRESENTATION OF DEVICE LOCATIONS AND COND
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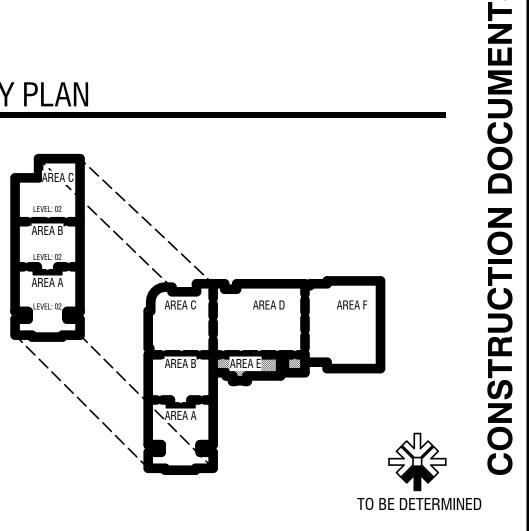


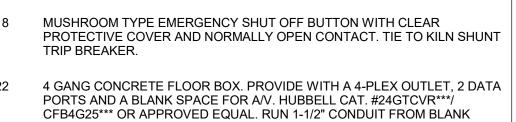






KEY PLAN





GFCI.

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

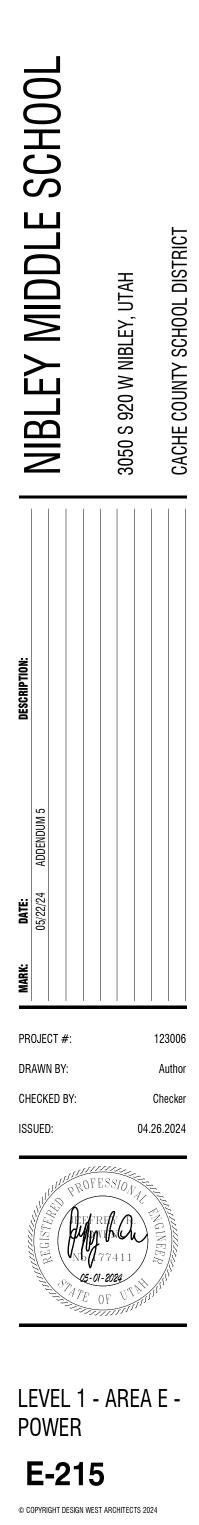
REPRESENTATION OF DEVICE LOCATIONS AND CONDUIT RUNS.

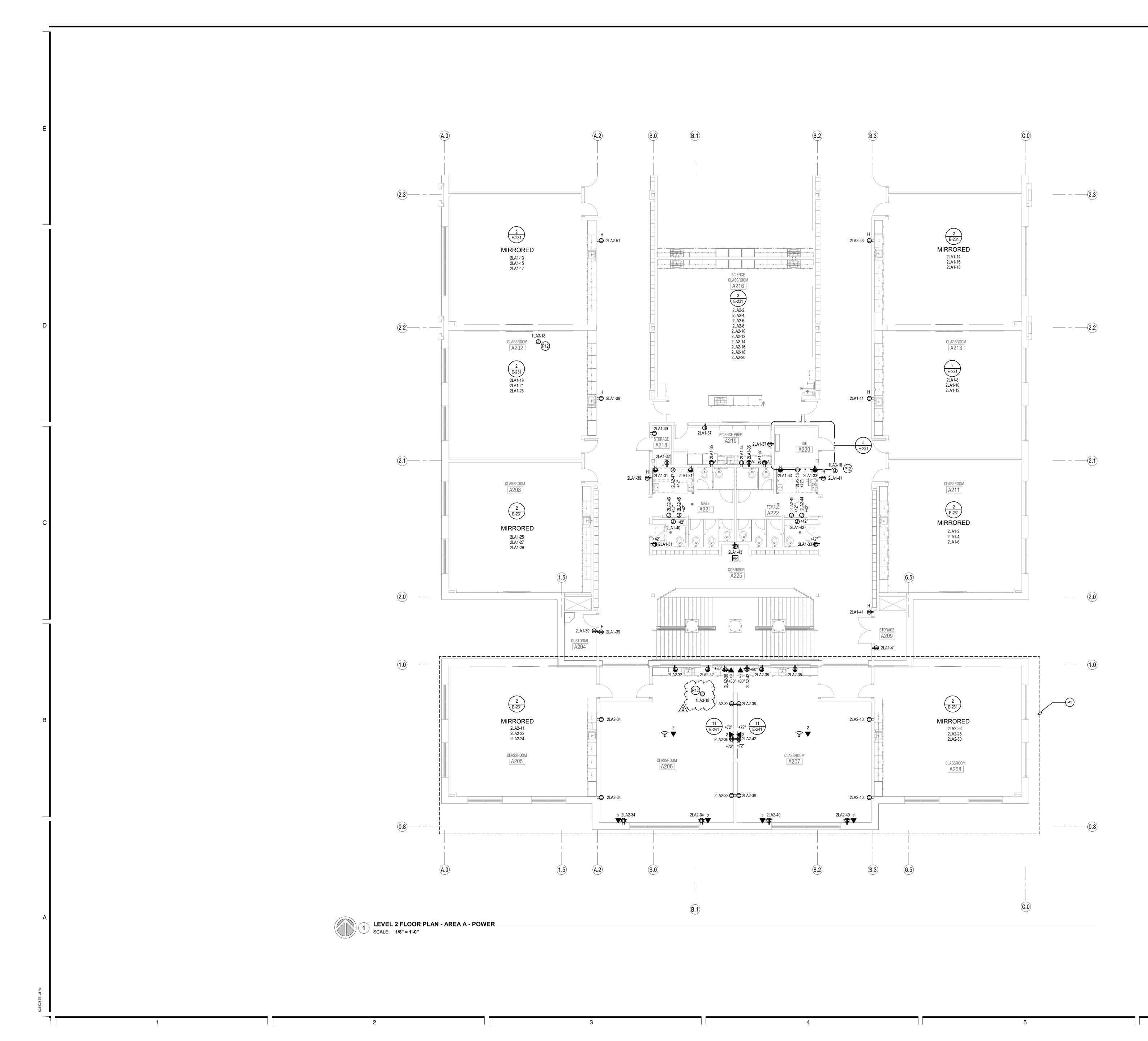
P12 POWER FOR VAV BOX TRANSFORMER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

SPACE UP NEAREST WALL AND INTO ACCESSIBLE CEILING SPACE.











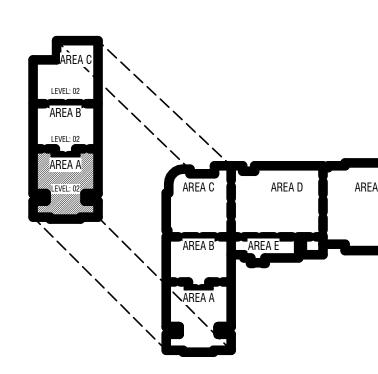
 ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF AN GFCI.
 THE DIVISION 26 CONTRACTOR SHALL DETERMINE TH OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENT REPRESENTATION OF DEVICE LOCATIONS AND CONDUCTIONS

KEYED NOTES (#)

UNDER THE BASE BID, INCLUDE ALL WORK IN THIS ARE
THE PLANS. UNDER ALTERNATE #1, THIS AREA WILL BE
THE PROJECT. PROVIDE A SEPARATE COST TO BE ISSI
FOR ALL WORK IN THIS AREA AS SHOWN ON THE PLAN

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

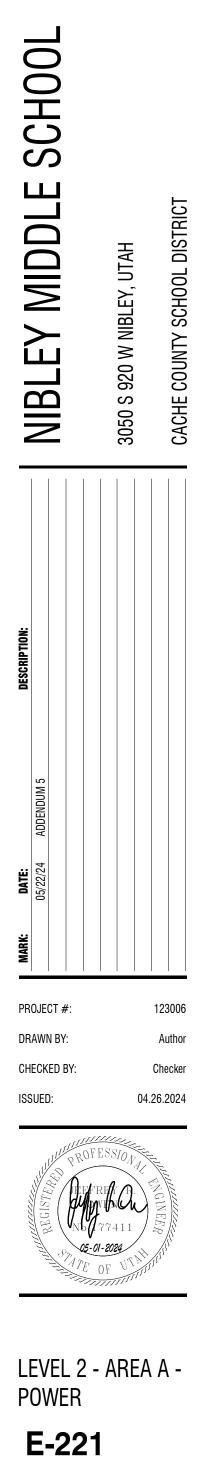
KEY PLAN

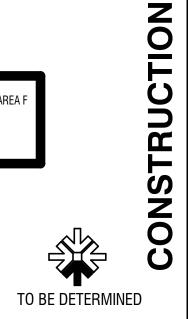


ANY SINK SHALL BE
THE EXACT ROUTING SENTS A SCHEMATIC NDUIT RUNS.
AREA AS SHOWN ON . BE REMOVED FROM SSUED AS A CREDIT ANS.
E EXACT LOCATION





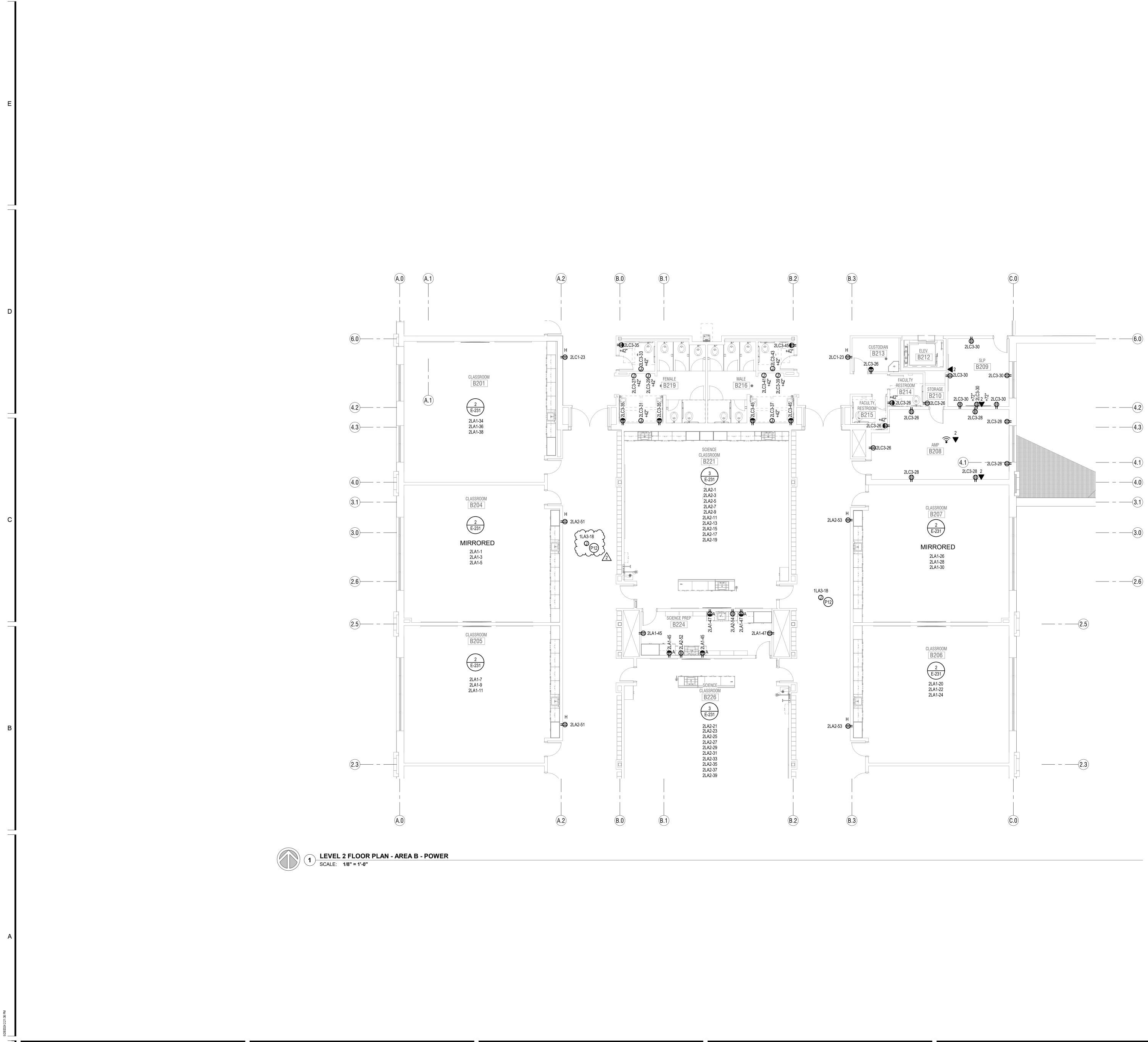




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POWER GENERAL NOTES:

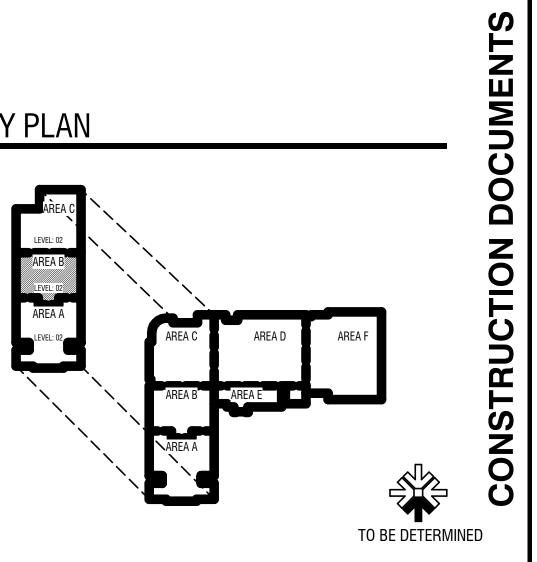
ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY GFCI. THE DIVISION 26 CONTRACTOR SHALL DETERMINE TH OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESEN REPRESENTATION OF DEVICE LOCATIONS AND COND

KEYED NOTES (#)

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

KEY PLAN

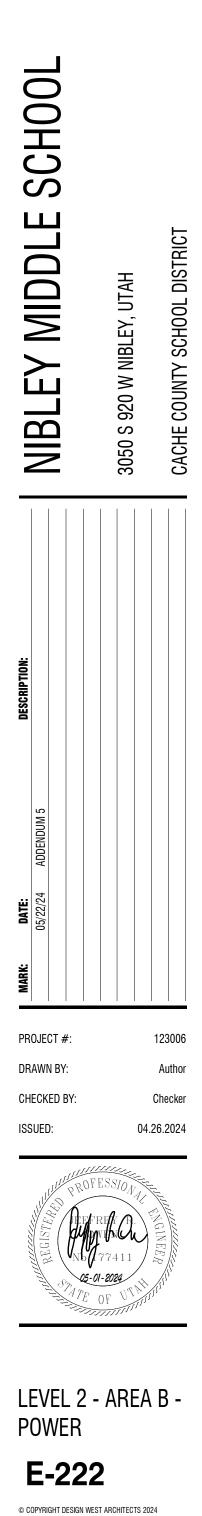
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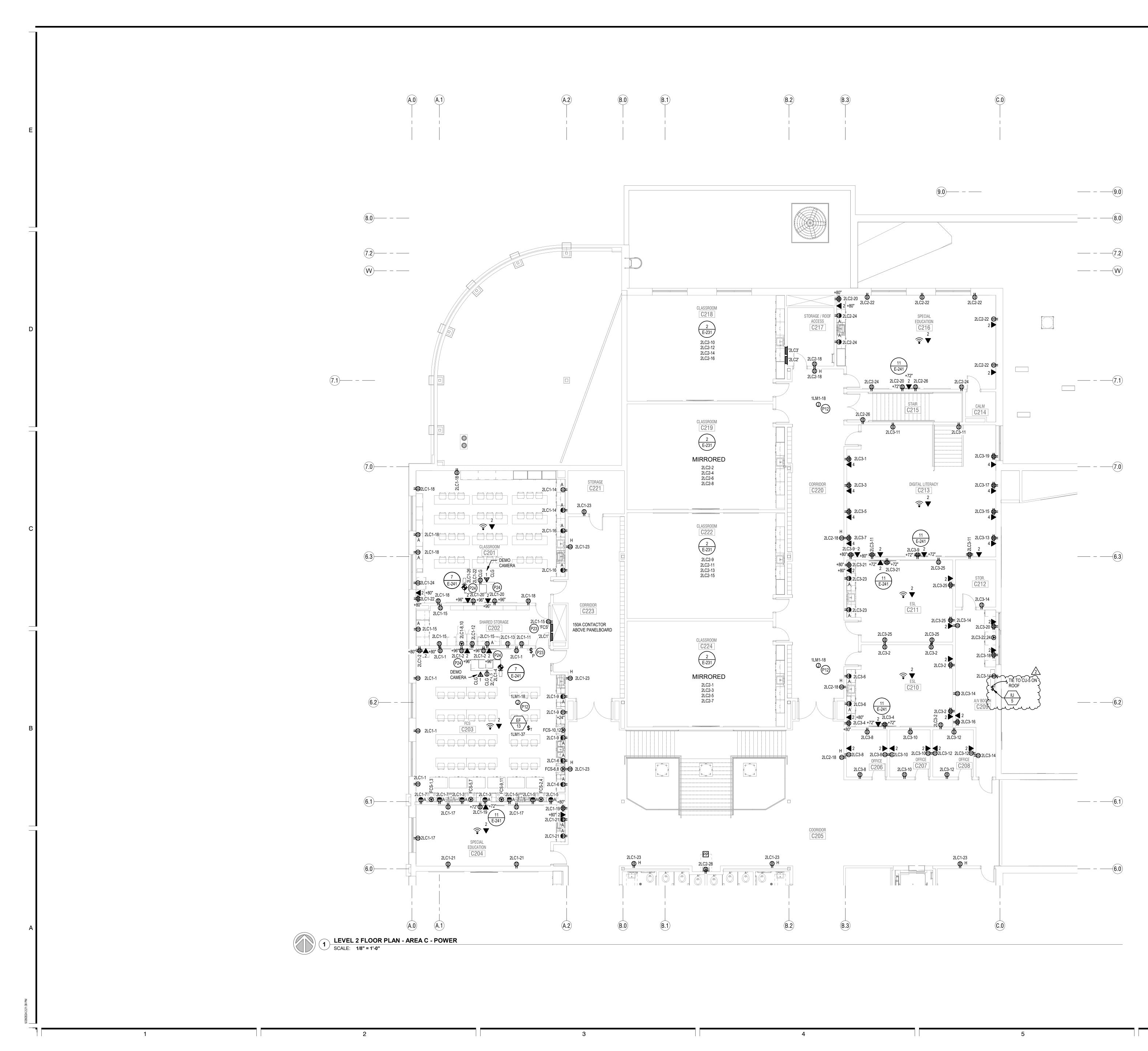


NY SINK SHALL BE	
HE EXACT ROUTING ENTS A SCHEMATIC DUIT RUNS.	
EXACT LOCATION	





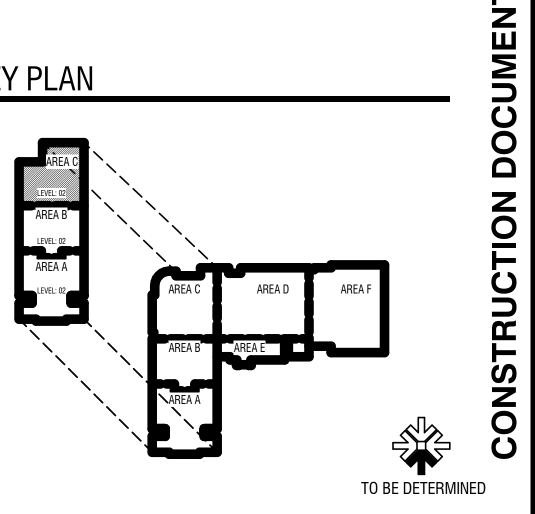




POW	/ER GENERAL NOTES:
1.	ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF AN GFCI.
2.	THE DIVISION 26 CONTRACTOR SHALL DETERMINE TH OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESE REPRESENTATION OF DEVICE LOCATIONS AND COND
<u>KEYE</u>	D NOTES (#)
P12	POWER FOR VAV BOX TRANSFORMER. COORDINATE WITH MECHANICAL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

PROVIDE A 25 KW INVERTER WITH 480V, 3Ø INPUT AND 480V, 3Ø OUTPUT TO POWER EMERGENCY LIGHTING PANELS. P24

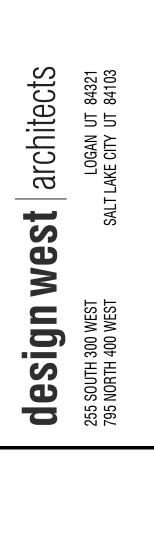
KEY PLAN



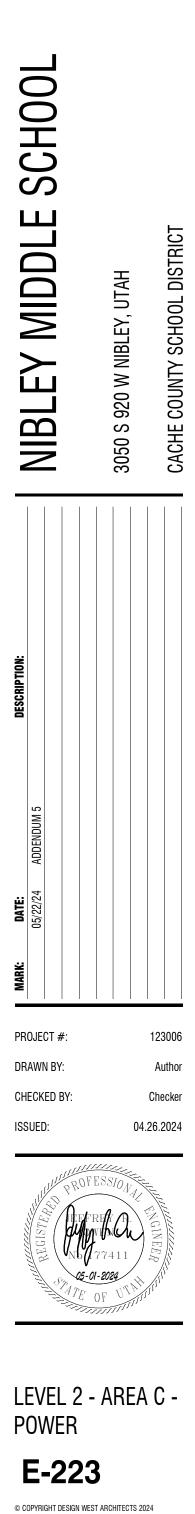
NY SINK SHALL BE
THE EXACT ROUTING ENTS A SCHEMATIC DUIT RUNS.

E EXACT LOCATION

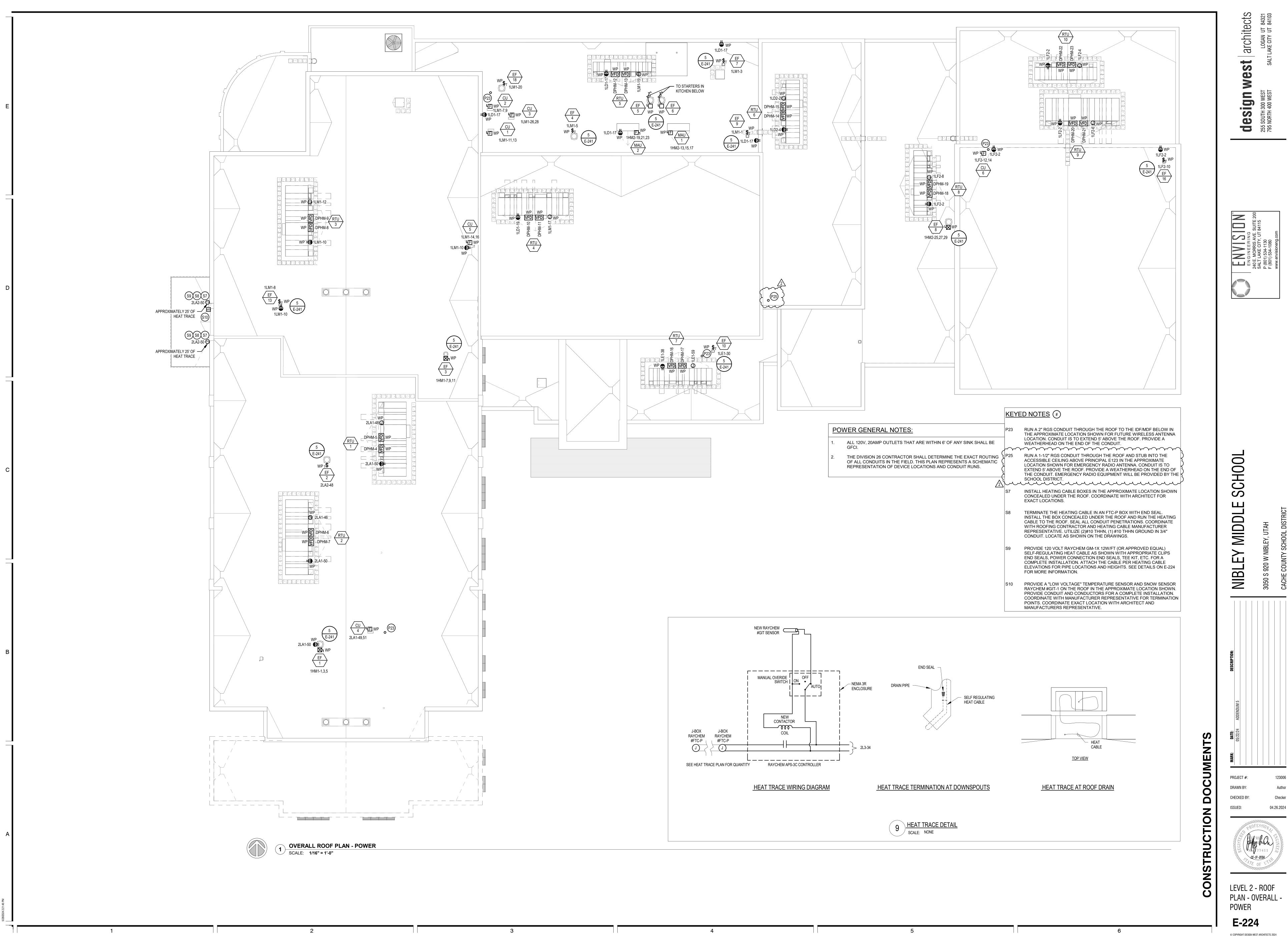
THE IDF/MDF BELOW IN RE WIRELESS ANTENNA ROOF. PROVIDE A



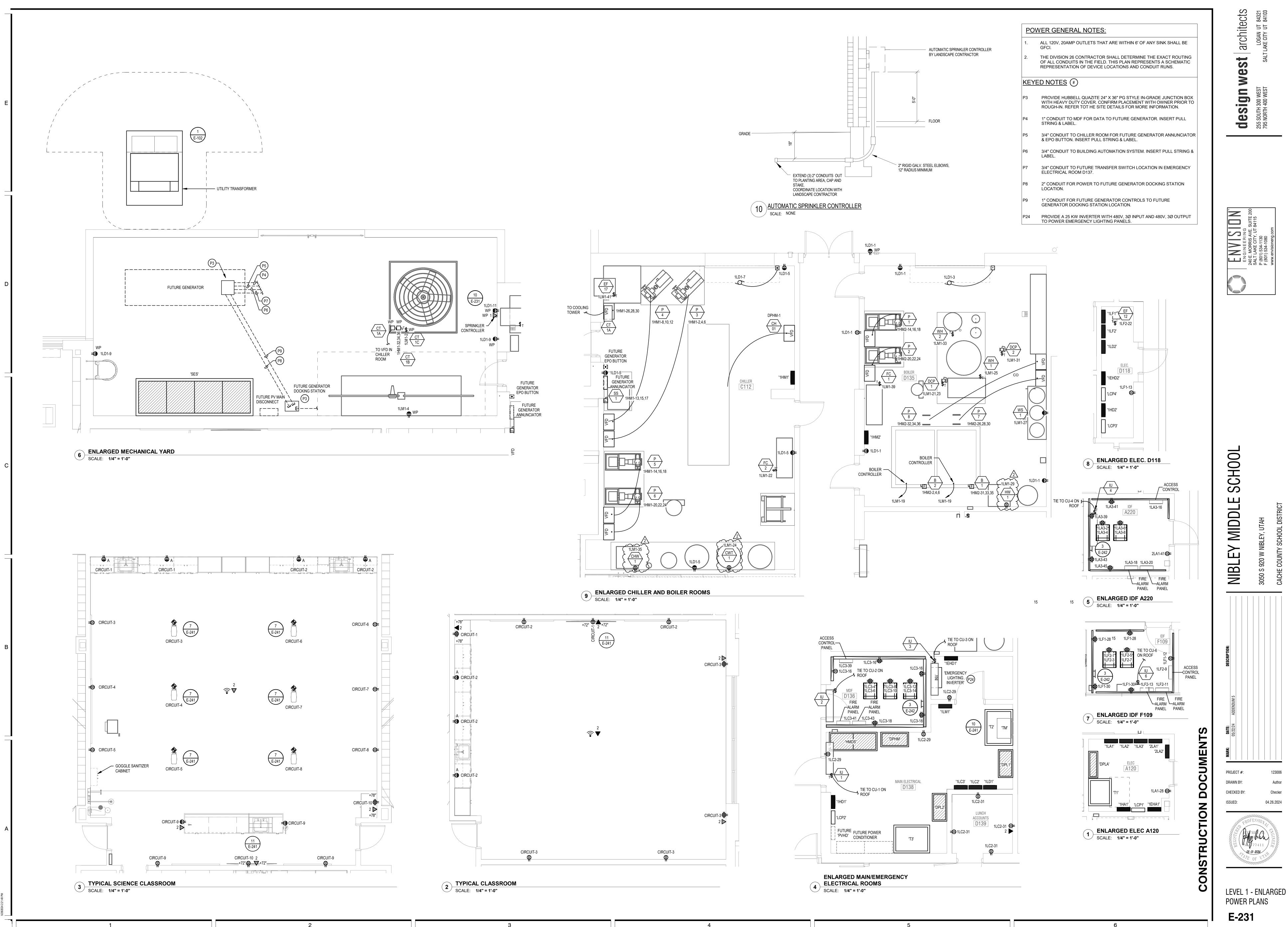


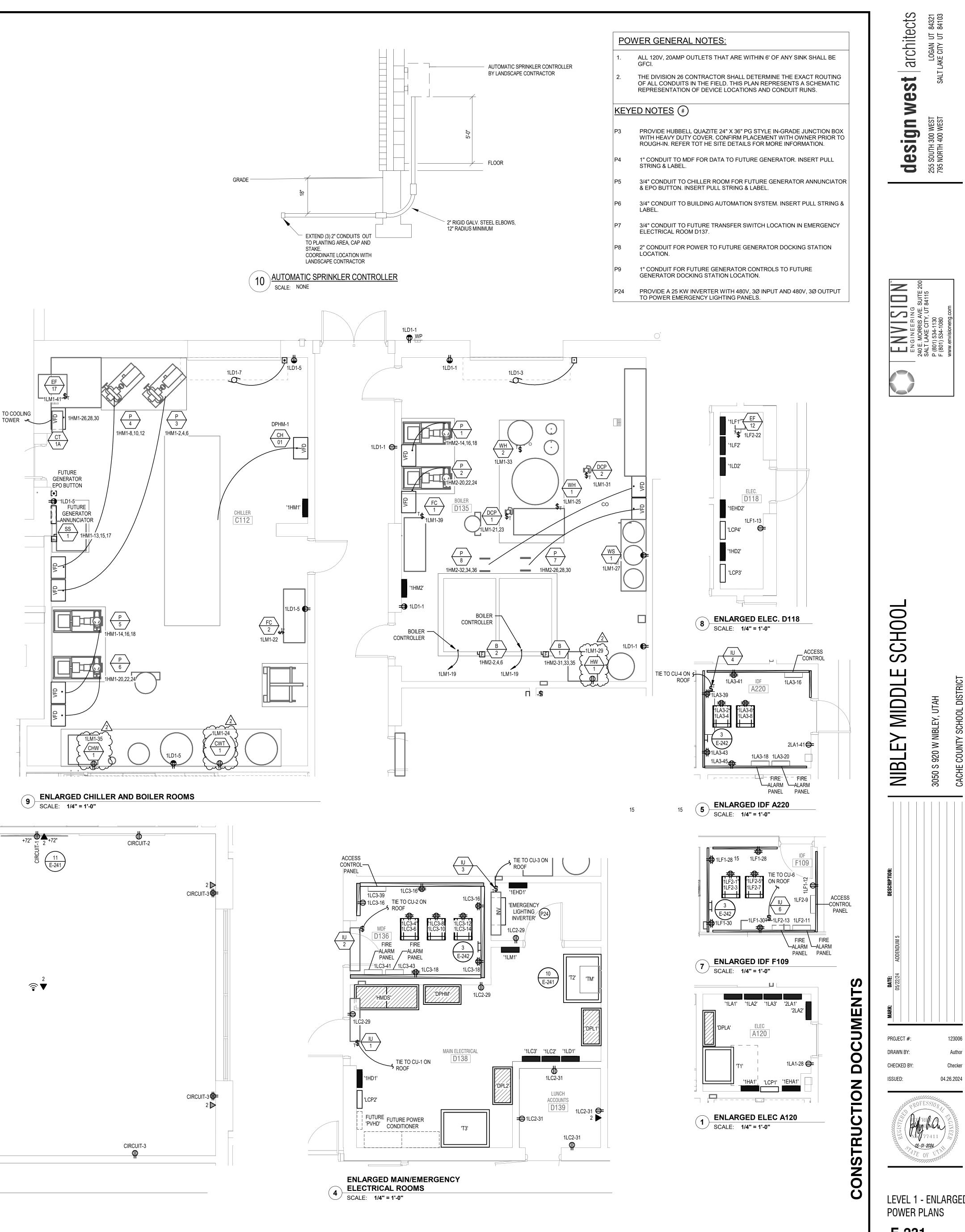


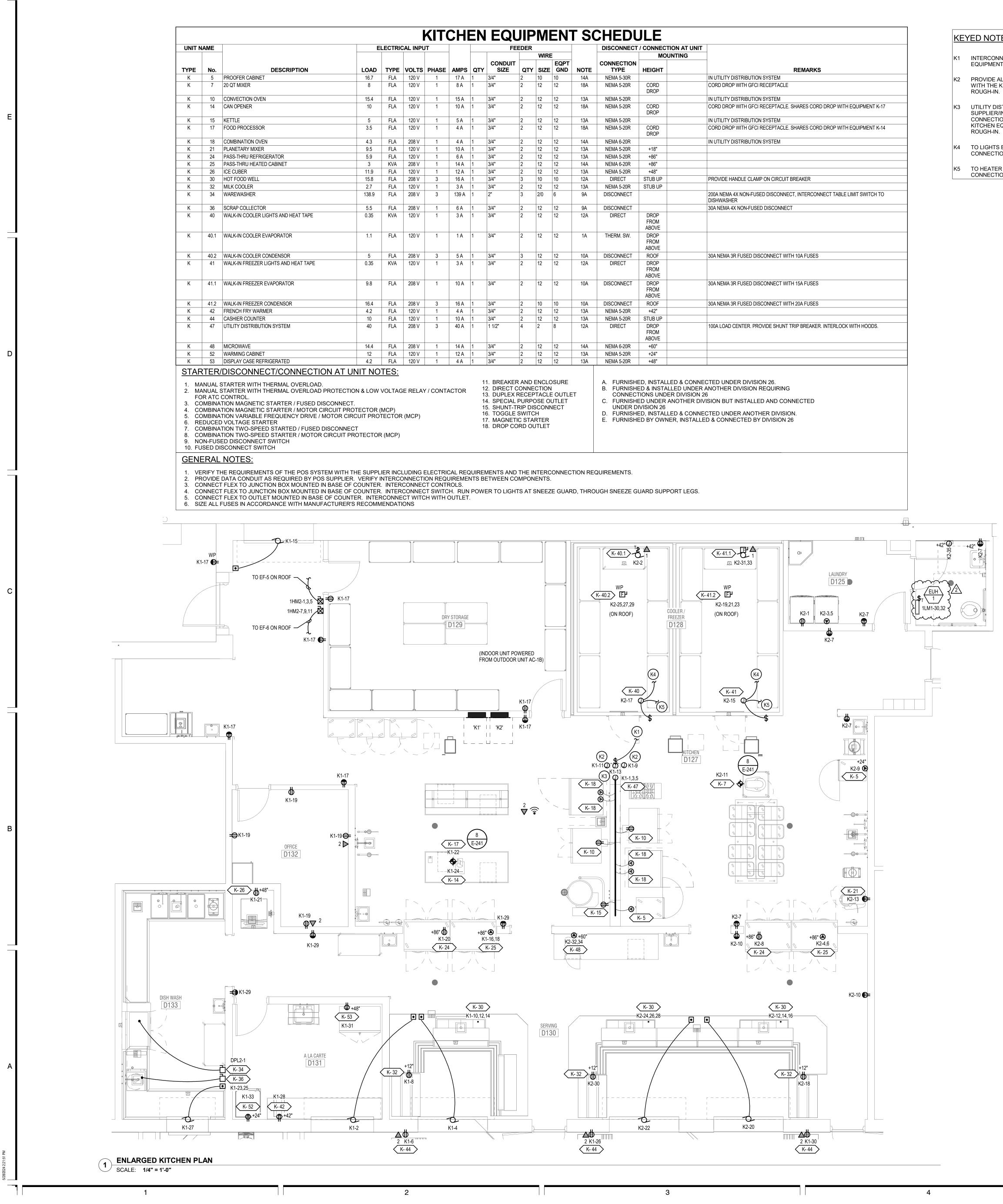
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		<u>KEY</u>	ED NOTES (#)
PC	OWER GENERAL NOTES:	P23	RUN A 2" RGS CONDUIT THROUGH THE ROOF TO THE IDF/MDF BEL(THE APPROXIMATE LOCATION SHOWN FOR FUTURE WIRELESS AN
1.	ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE GFCI.		LOCATION. 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 APPROXIMAT 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 SI 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.







		FEE	DER				DISCONNECT	/ CONNECTION AT UNIT		
F				WIRE				MOUNTING		K1 INT
MPS	QTY	CONDUIT SIZE	QTY	SIZE	EQPT GND	NOTE	CONNECTION TYPE	HEIGHT	REMARKS	EQ
7 A -		3/4"	2	10	10	14A	NEMA 5-30R		IN UTILITY DISTRIBUTION SYSTEM	K2 PR
8 A		3/4"	2	12	12	18A	NEMA 5-20R	CORD DROP	CORD DROP WITH GFCI RECEPTACLE	WI RO
5 A		3/4"	2	12	12	13A	NEMA 5-20R		IN UTILITY DISTRIBUTION SYSTEM	
0 A .		3/4"	2	12	12	18A	NEMA 5-20R	CORD DROP	CORD DROP WITH GFCI RECEPTACLE. SHARES CORD DROP WITH EQUIPMENT K-17	K3 UTI SU
5 A		3/4"	2	12	12	13A	NEMA 5-20R		IN UTILITY DISTRIBUTION SYSTEM	CO KIT
4 A		3/4"	2	12	12	18A	NEMA 5-20R	CORD DROP	CORD DROP WITH GFCI RECEPTACLE. SHARES CORD DROP WITH EQUIPMENT K-14	RO
4 A		3/4"	2	12	12	14A	NEMA 6-20R		IN UTILITY DISTRIBUTION SYSTEM	к4 то
0 A 1		3/4"	2	12	12	13A	NEMA 5-20R	+18"		K4 10 C0
6 A		3/4"	2	12	12	13A	NEMA 5-20R	+86"		
4 A		3/4"	2	12	12	14A	NEMA 6-20R	+86"		К5 ТО
2 A		3/4" 3/4"	2	12	12	13A	NEMA 5-20R	+48" STUB UP		CO
6 A		3/4"	3 2	10	10	12A 13A	DIRECT NEMA 5-20R	STUB UP	PROVIDE HANDLE CLAMP ON CIRCUIT BREAKER	
3 A 39 A		2"	3	12 2/0	12 6	9A	DISCONNECT		200A NEMA 4X NON-FUSED DISCONNECT, INTERCONNECT TABLE LIMIT SWITCH TO DISHWASHER	
6 A		3/4"	2	12	12	9A	DISCONNECT		30A NEMA 4X NON-FUSED DISCONNECT	
3 A		3/4"	2	12	12	12A	DIRECT	DROP FROM ABOVE		
1 A		3/4"	2	12	12	1A	THERM. SW.	DROP FROM ABOVE		
5 A		3/4"	3	12	12	10A	DISCONNECT	ROOF	30A NEMA 3R FUSED DISCONNECT WITH 10A FUSES	
3 A -		3/4"	2	12	12	12A	DIRECT	DROP FROM ABOVE		
0 A -		3/4"	2	12	12	10A	DISCONNECT	DROP FROM ABOVE	30A NEMA 3R FUSED DISCONNECT WITH 15A FUSES	
6 A -		3/4"	2	10	10	10A	DISCONNECT	ROOF	30A NEMA 3R FUSED DISCONNECT WITH 20A FUSES	
4 A		3/4"	2	12	12	13A	NEMA 5-20R	+42"		
0 A (3/4"	2	12	12	13A	NEMA 5-20R	STUB UP		
10 A		1 1/2"	4	2	8	12A	DIRECT	DROP FROM ABOVE	100A LOAD CENTER. PROVIDE SHUNT TRIP BREAKER. INTERLOCK WITH HOODS.	
4 A		3/4"	2	12	12	14A	NEMA 6-20R	+60"		
2 A _		3/4"	2	12	12	13A	NEMA 5-20R	+24"		
4 A 🔤		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

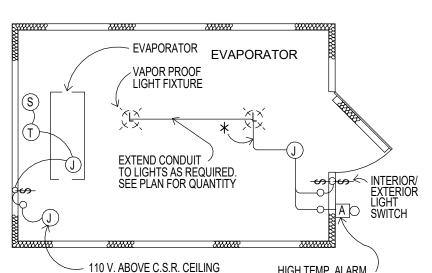
TO LIGHTS BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE ALL WORK AND CONNECTIONS WITH THE KITCHEN EQUIPMENT INSTALLER. TO HEATER BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE ALL WORK AND CONNECTIONS WITH THE KITCHEN EQUIPMENT INSTALLER.

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.

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

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

BUILDING SERVICE TO COMPONENTS.

- 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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FURNISHED LOW TEMP COLD STORAGE ROOM EVAPORATOR TERMINAL EQUIPMENT CONTRACTOR BLOCK, SWITCH, FAN DOOR SWITCH AND COMPRESSOR CONTROL PANEL.

INTERCONNECTING CONDUIT AND WIRING BETWEEN KITCHEN

10. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL

NOTE: ELECTRICAL MOUNTING ALL WALL MOUNT ELECTRICAL RECEPTACLE AND J-BOXES ARE TO BE FLUSH

MOUNTED IN WALLS WITH NO EXPOSED CONDUIT SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.

NOTE: WALK-IN ELECTRICAL

ALL CONDUIT SHALL BE RUN ON THE EXTERIOR CEILING OF ALL COLD STORAGE ROOMS AND SHALL PENETRATE THE CEILING AT A POINT WHERE THE CONDUIT CAN DROP DIRECTLY TO THE POINT OF CONNECTION. UNDER NO CIRCUMSTANCES, WILL ELECTRICAL CONDUIT BE PERMITTED ON THE INTERIOR.

EVAPORATOR, TERMINAL BLOCK, ROOM THERMOSTAT, LIQUID LINE

SOLENOID & ELECTRIC PANEL AT COMPRESSOR RACK SUPPLIED AS

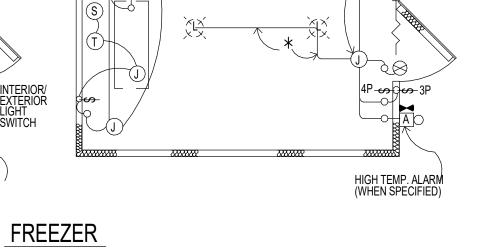
PART OF THE REFRIGERATION SYSTEM. ELECTRICAL DIVISION TO FURNISH & INSTALL CONDUIT, J-BOXES AND WIRING BETWEEN COLI STORAGE ROOM AND COMPRESSOR RACK. SEE PLAN FOR LOCATION.

3000000

HEATER CABLE

VIEWPORT &

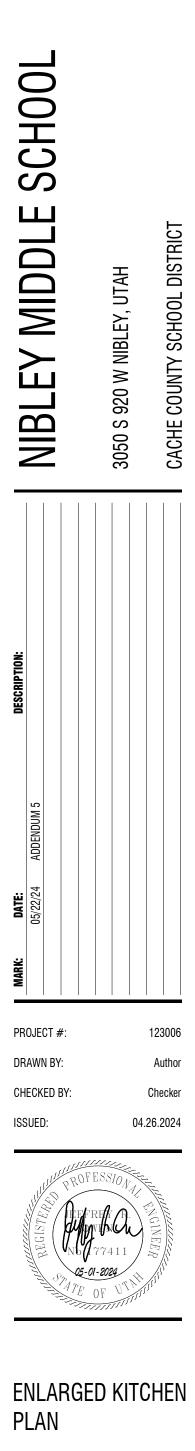
DOOR HEATER



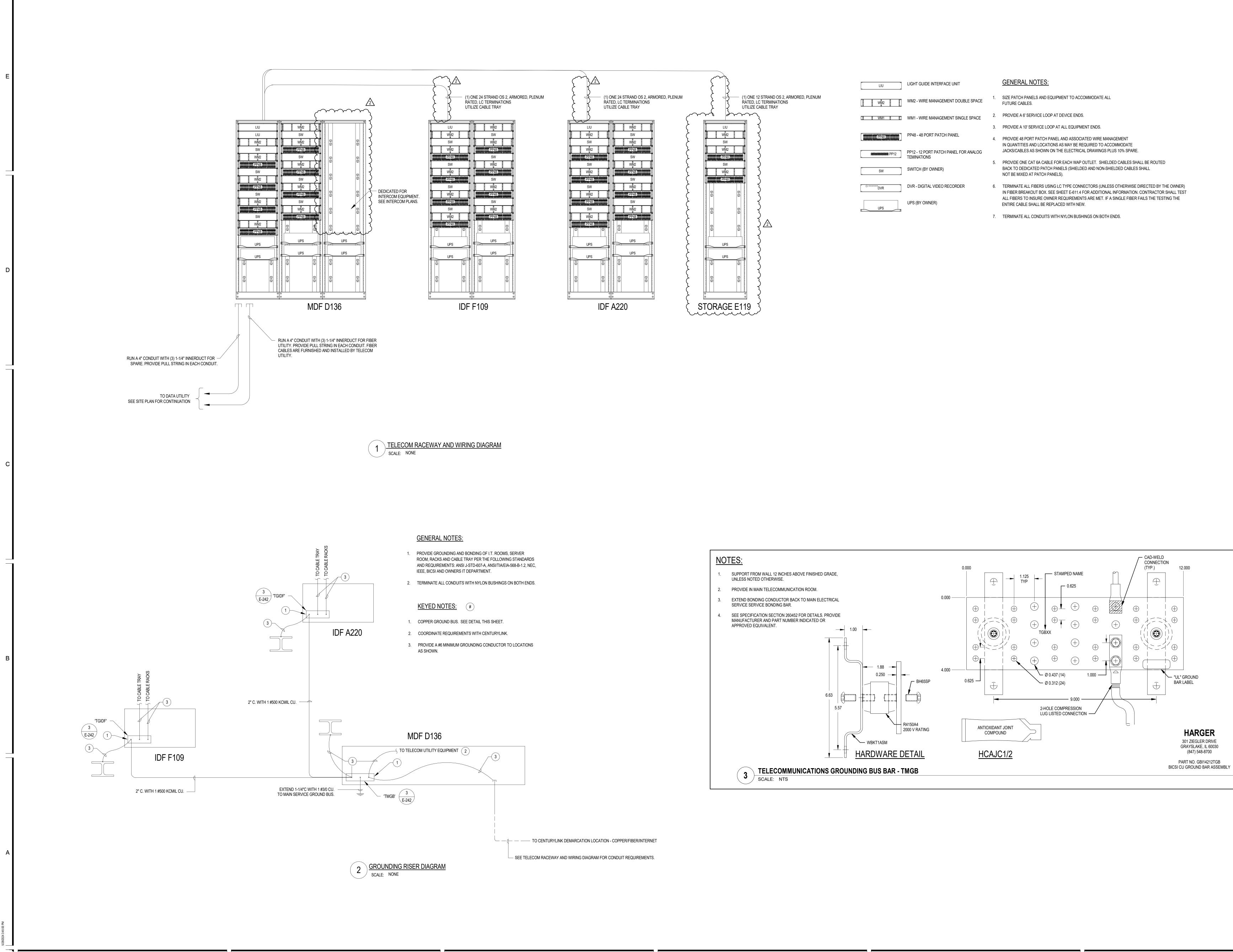








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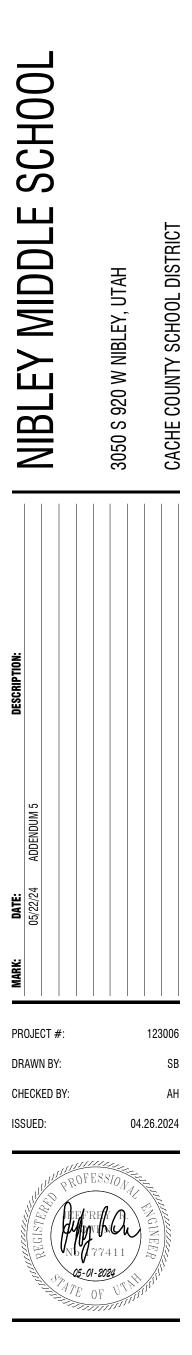
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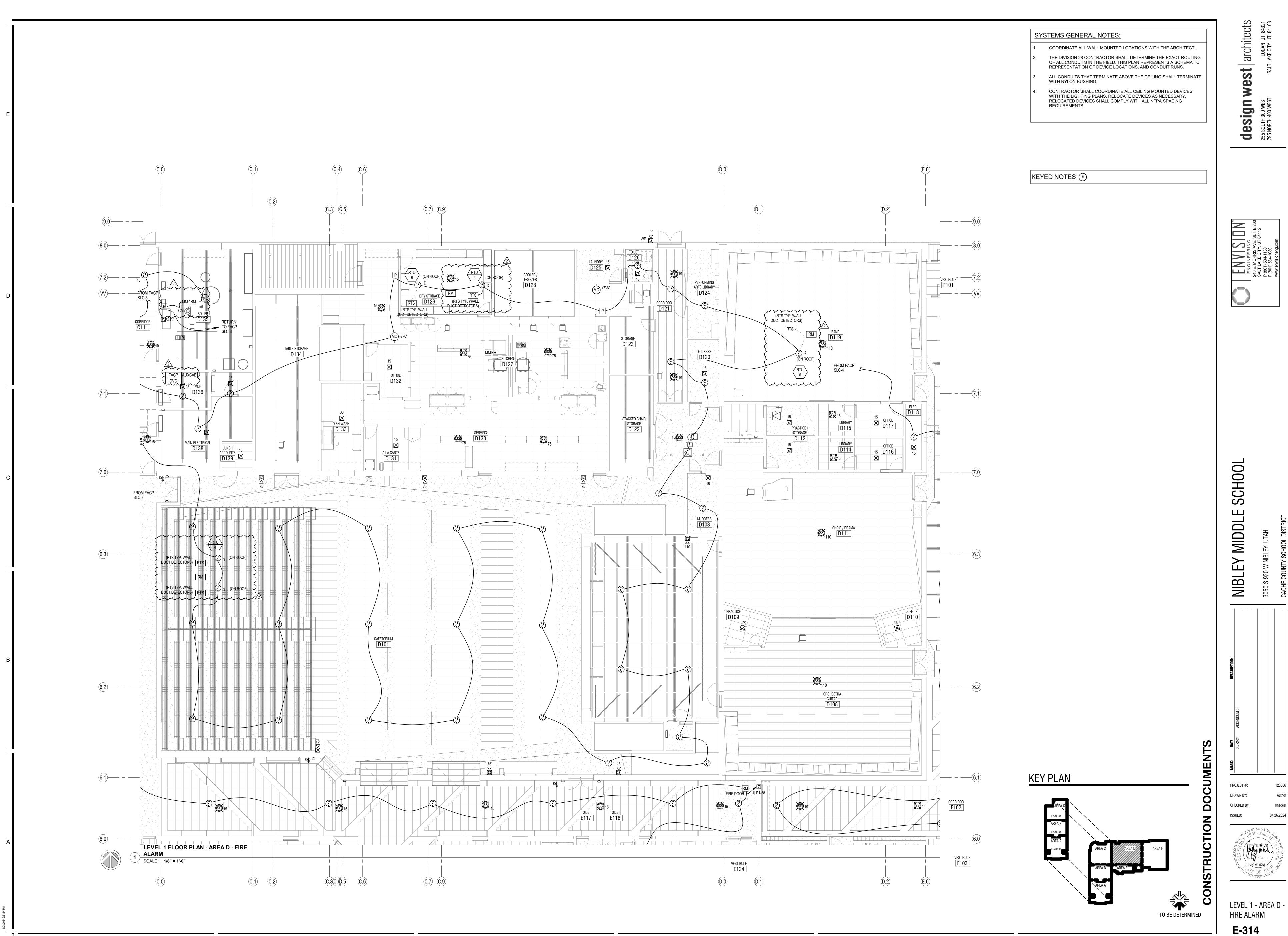


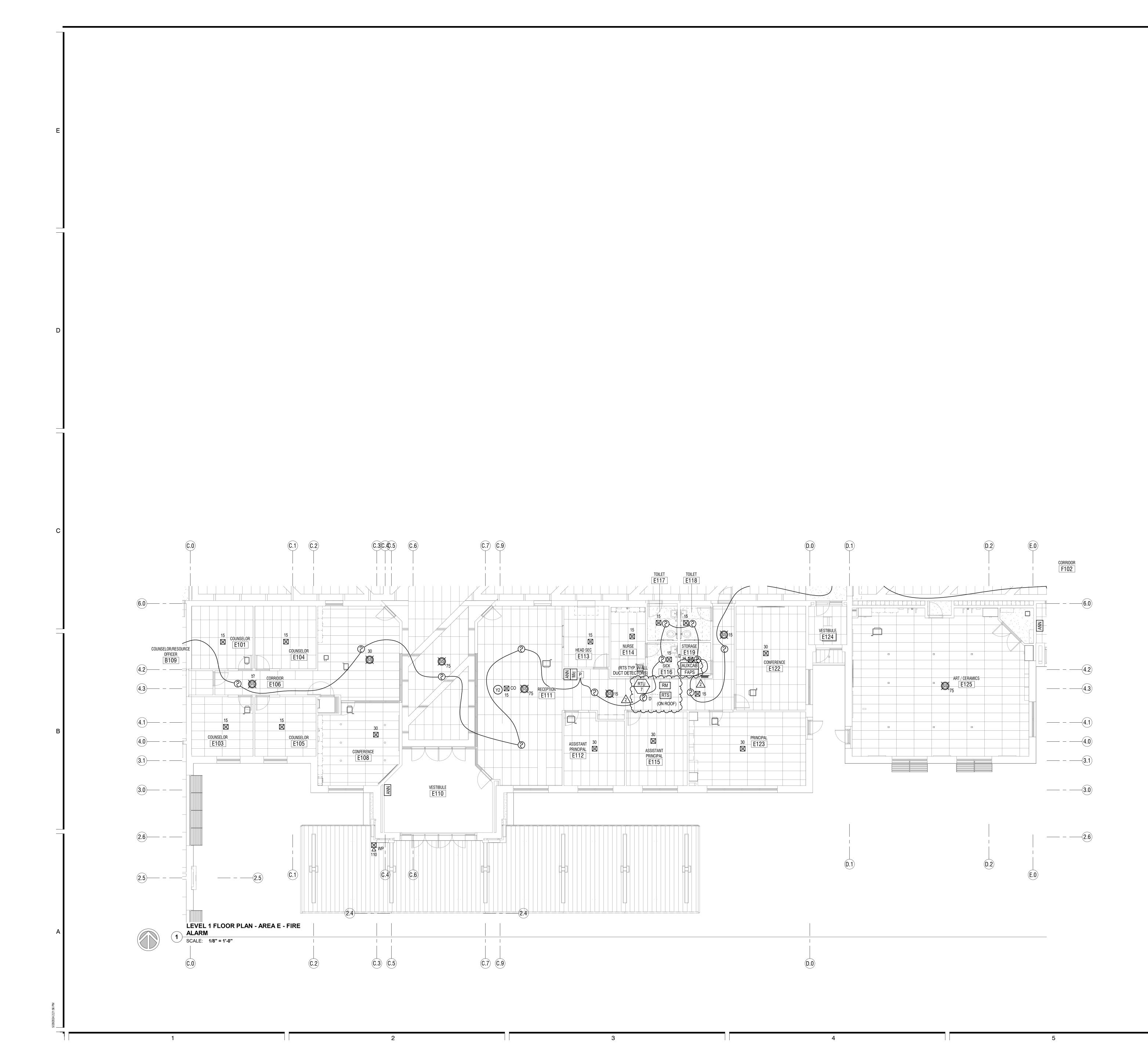
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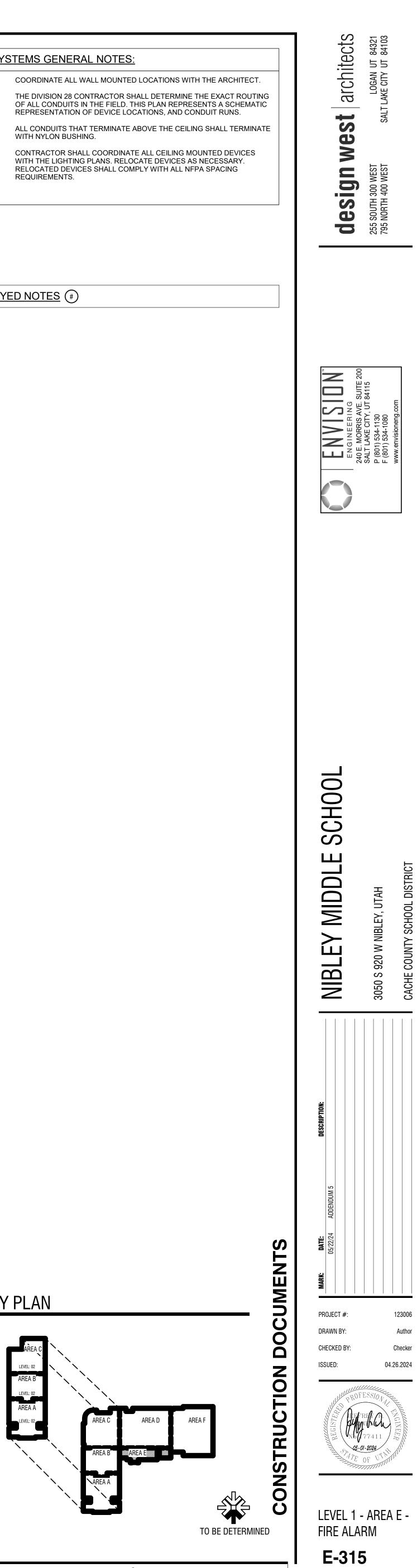


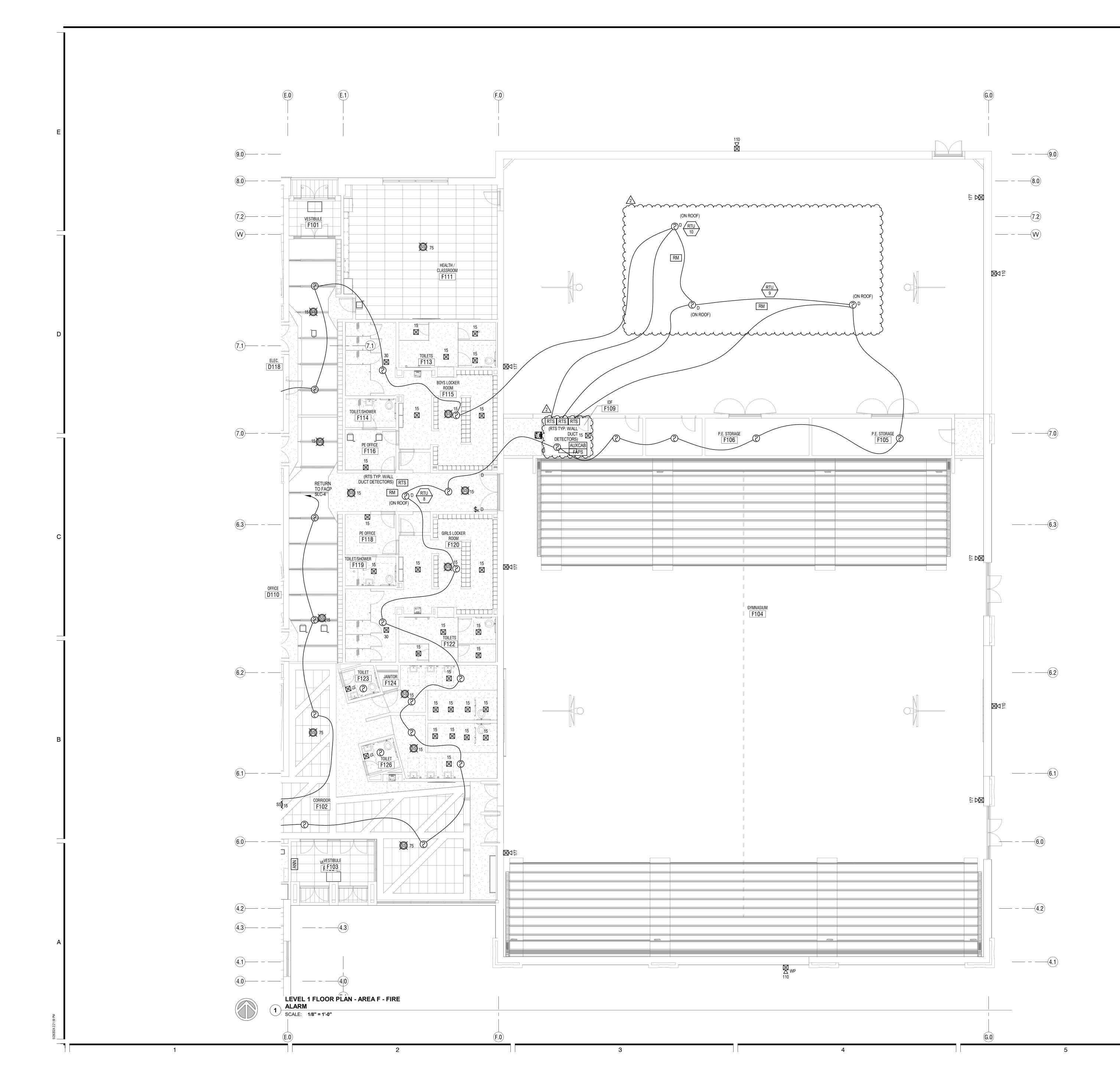


<u>SYS</u>	TEMS GENERAL NOTES:
1.	COORDINATE ALL WALL MOUNTED LOCATIONS WITH
2.	THE DIVISION 28 CONTRACTOR SHALL DETERMINE T OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRES REPRESENTATION OF DEVICE LOCATIONS, AND COM
3.	ALL CONDUITS THAT TERMINATE ABOVE THE CEILIN WITH NYLON BUSHING.
4.	CONTRACTOR SHALL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

KEYED NOTES (#)

KEY PLAN





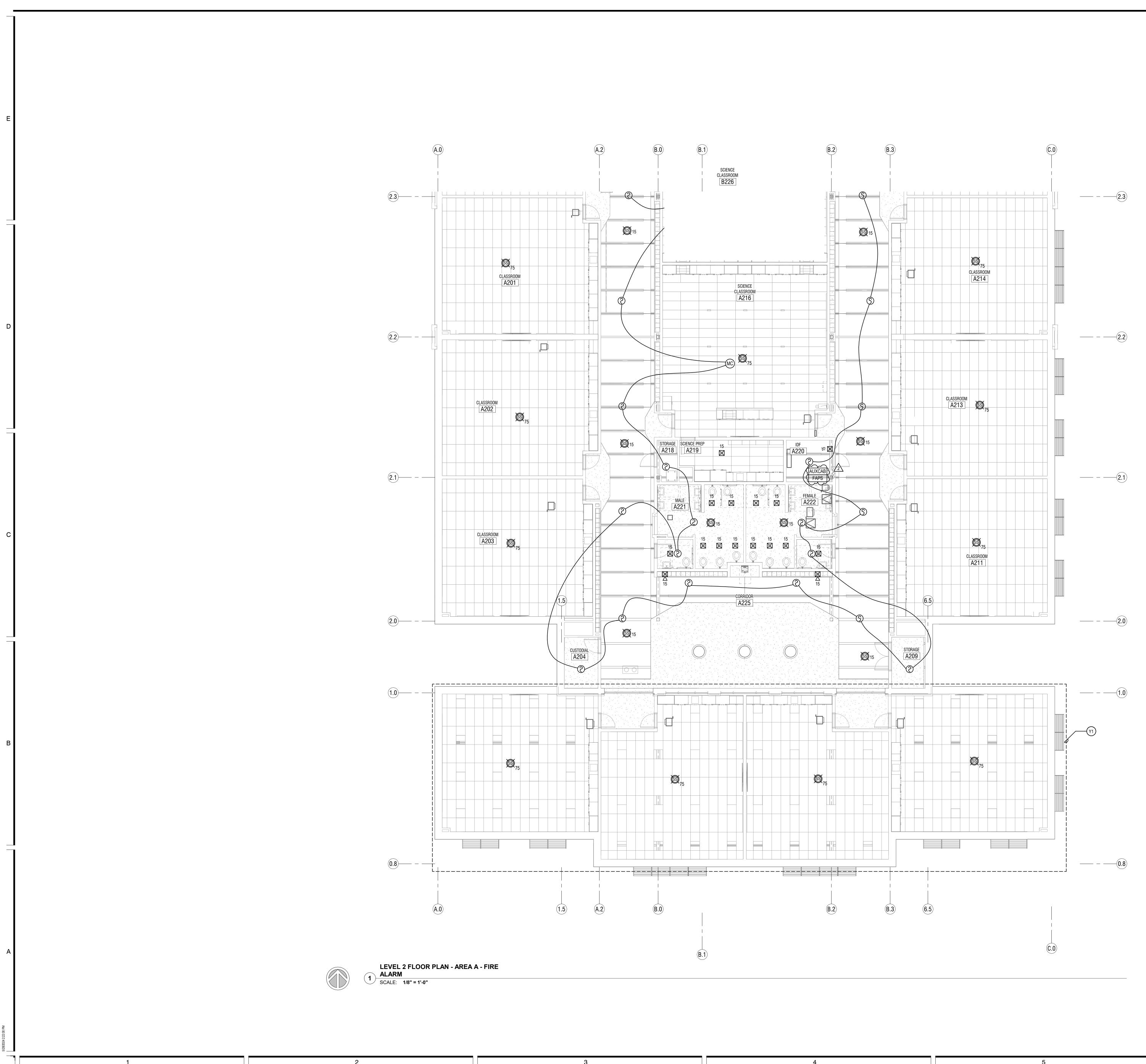
SYSTEMS GENERAL NOTES: REQUIREMENTS. KEYED NOTES (#)

KEY PLAN



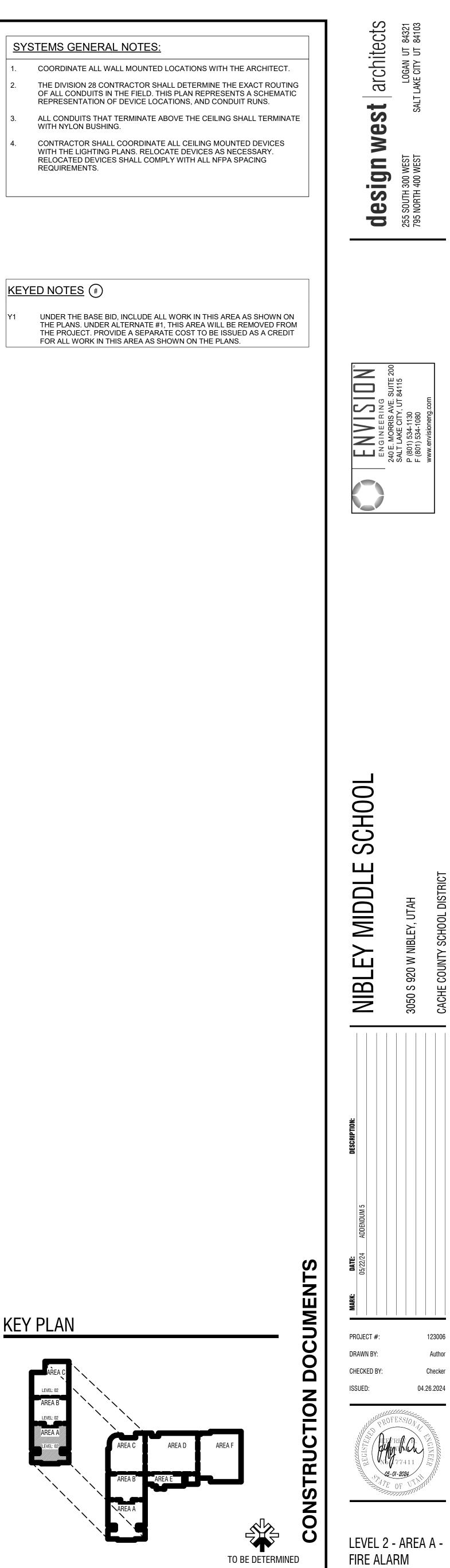
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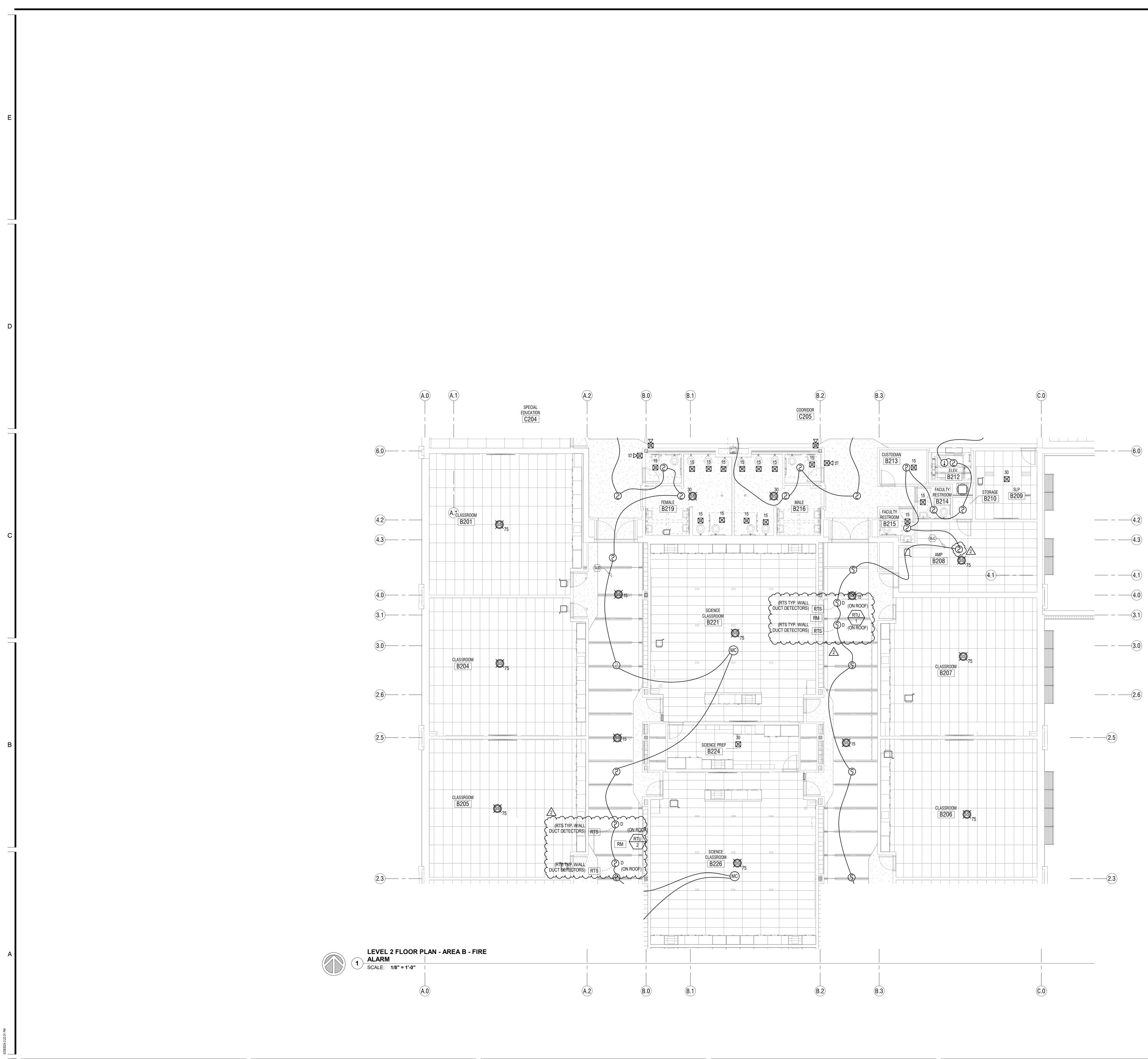


SYSTEMS GENERAL NOTES:

KEY PLAN



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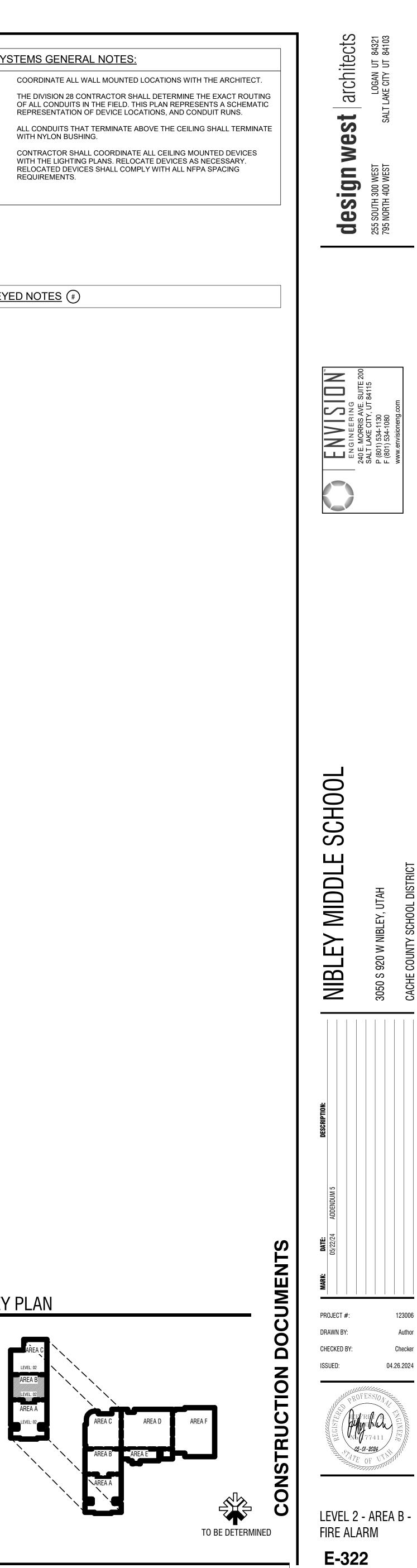
SYSTEMS GENERAL NOTES:

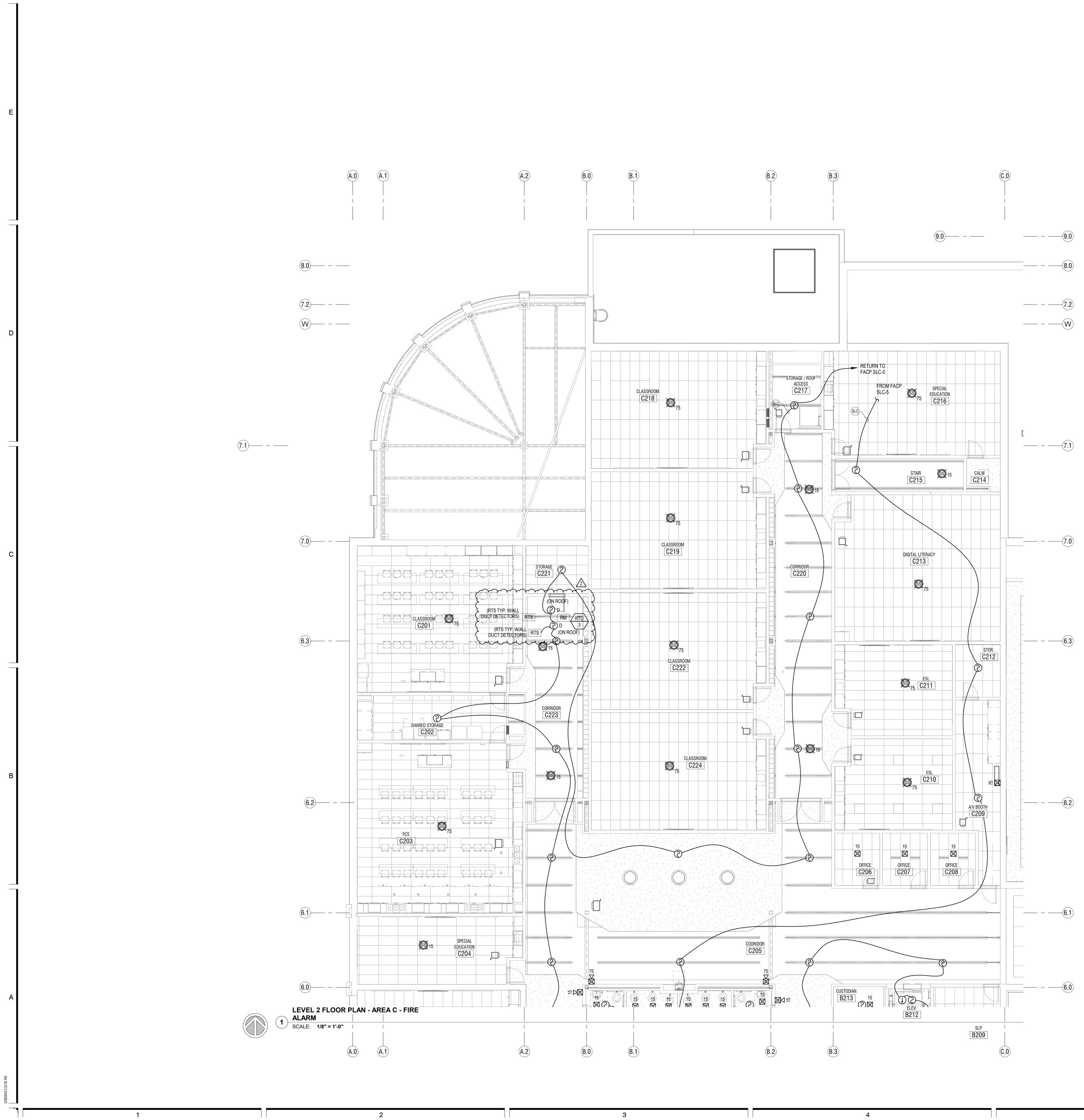
- WITH NYLON BUSHING.

KEYED NOTES (#)

KEY PLAN

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SYSTEMS GENERAL NOTES:

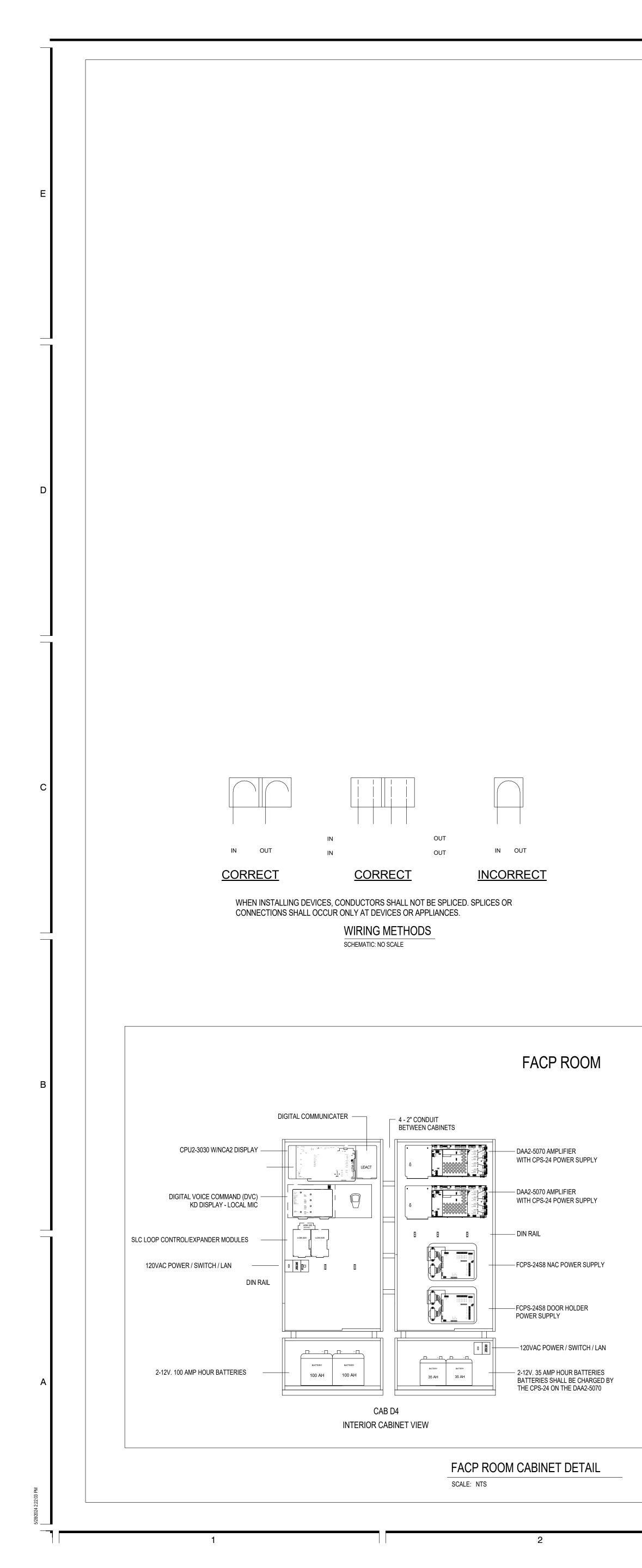
- WITH NYLON BUSHING.

KEYED NOTES (#)

KEY PLAN

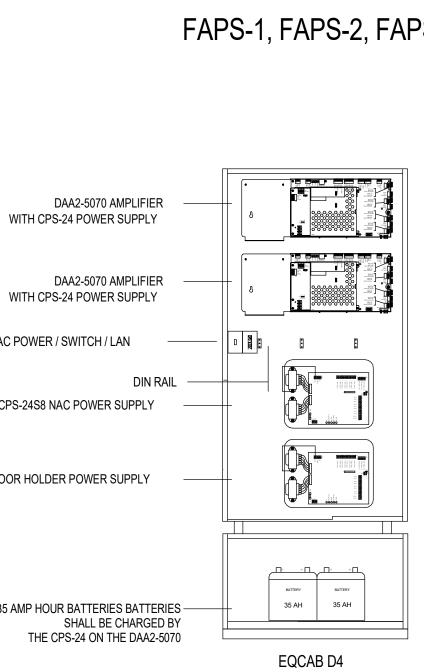
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									Ω.				A SYMBOL LEGEND	
				GNAL		œ		EXITS	E DOORS AIR	SYMBOL	DESCRIPTION	MANUF. & PART #	MAY NOT BE USED ON THIS PROJECT MOUNTING	MOUNT IN
	OPERATIONS			CATOR ORY SIGN		ICATO		ILOCK	X A	FACP	FIRE ALARM CONTROL PANEL	NOTIFIER - ONYX SERIES NFS2-3030	CABINET TOP @ 6'-2"	NOTIFIER - CAB D-4
	MATRIX	E E		VISOR	ATOR		SIGNAL	NN/SXC	NT NA	DVC	DIGITAL VOICE CONTROL PANEL	NOTIFIER - DVC	IN FACP CABINET	IN FACP CABINET
			ILARM	SORY INDI	TROUBLE INDICATOR	GNAL	RVISORY S	AGLOC	GNETICALLY HE KITCHEN HOOD AIR HANDLER U	FAPS	FIRE ALARM POWER SUPPLY CABINET	NOTIFIER - FCPS-24S8 & DAA2-5070	CABINET TOP @ 6'-2"	NOTIFIER - CAB EQ D-4 (NAC POWER SUPPLY & AMPLIFIER)
			IBLE A	BLE		IBLE T	DIBLE	ESS M	MAGNETICALLY WN KITCHEN HO WN AIR HANDLEF	FAAUX	FIRE ALARM DOOR HOLDER POWER	NOTIFIER - FCPS-24S8	IN FAPS CABINET	IN FAPS CABINET WHERE REQUIRED
		LARN E ALAI	E AUD	E SUPI E AUDI		E AUD	IT SUF	EGRI	AM N N	ANN	FIRE ALARM REMOTE ANNUNCIATOR	NOTIFIER - FDU-80	FIELD VERIFY	3 GANG DEEP - MOUNTED FLUSH, 48" TO TOP
		RE AL	TIVATI	CTIVATE CTIVATE	ACTIVATE	ANSM	ANSMI	LEASE	ELEASE IUT DOV	МІС	REMOTE MICROPHONE	NOTIFIER - RM-1	FIELD VERIFY	IN REMOTE ANNUNCIATOR CABINET
	FIRE ALARM INPUT		- V	Ŷ	Ac.	AC AC	Le la	~~~~	Reverses to the second	<u> </u>	SMOKE DETECTOR	NOTIFIER - FSP-851	CEILING	4 SQ. DEEP W/ MUD RING - MOUNTED FLUSH
	SMOKE DETECTORS	<u> </u>	•			•					DUCT SMOKE DETECTOR	NOTIFIER - FSP-851R / DNR	INDICATED DUCT	DNR HOUSING
	HEAT DETECTORS DUCT DETECTORS		•	• •			•		• • •	}	PULL STATION HEAT DETECTOR	NOTIFIER - NBG-12LX NOTIFIER - FSH-851	WALL @ 48" TO CENTER OF BOX CEILING	4 SQ. DEEP W/ SINGLE GANG MUD RING - MOUNTED FLUSH 4 SQ. DEEP W/ MUD RING - MOUNTED FLUSH
	PULL STATIONS					•	•		• • •		BEAM SMOKE DETECTOR-TX/RX	NOTIFIER - BEAM200S	FIELD VERIFY	VERIFY
	WATERFLOW SWITCHES	<u> </u>	•			•					BEAM SMOKE DETECTOR-REFLECTOR	NOTIFIER - BEAM200S	FIELD VERIFY	VERIFY
	VALVE TAMPER SWITCHES	Ž		• •			•				REMOTE TEST SWITCH	NOTIFIER - RTS-151KEY	CEILING MOUNTED NEAR UNIT	SINGLE GANG 2-1/2" DEEP OR MOUNT DIRECTLY TO CEILING
	KITCHEN HOOD	{		• •			•		• •	} <u>₩</u> с	*MULTI CRITERIA DETECTOR W/CO DET.	NOTIFIER - FCO-851	CEILING	4 SQ. DEEP W/ MUD RING - MOUNTED FLUSH
	FIRE ALARM AC POWER FAIL	{			•		•			\$ <u>MM</u>	MONITOR MODULE	NOTIFIER - FMM-1		4 SQ. DEEP - MOUNTED FLUSH
	FIRE ALARM LOW BATTERY						•			K CM	CONTROL MODULE	NOTIFIER - FCM-1		4 SQ. DEEP - MOUNTED FLUSH
							•			S RM	RELAY MODULE	NOTIFIER - FRM-1		4 SQ. DEEP - MOUNTED FLUSH
	GROUND FAULT NAC SHORT CIRCUIT	<u> </u>					•				**SPEAKER / STROBE - CEILING	NOTIFIER - SPSCRV	CEILING	4 SQ. DEEP W/ DOUBLE GANG MUD RING - MOUNTED FLUSH
	LOSS OF AC TO BUILDING								•	SS □	**SPEAKER / STROBE	NOTIFIER - SPSRV	WALL @ 84" TO CENTER OF BOX	4 SQ. DEEP W/ DOUBLE GANG MUD RING - MOUNTED FLUSH
		- L		L.		لمبل			in the second second		**SPEAKER / STROBE (WEATHERPROOF)	NOTIFIER - SPSRK	WALL @ 10' TO CENTER OF BOX	4 SQ. DEEP W/ DOUBLE GANG MUD RING - MOUNTED FLUSH
CIRCUIT/CONDUCTOR	R LEGEND										**STROBE - CEILING MOUNT	NOTIFIER - SCR	CEILING	4 SQ. DEEP W/ SINGLE GANG MUD RING - MOUNTED FLUSH
L1 SLC-1 (1-#14/2 TWISTED	PAIR) 1SLC (CLASS A)										**STROBE	NOTIFIER - SR	WALL @ 84" TO CENTER OF BOX	4 SQ. DEEP W/ SINGLE GANG MUD RING - MOUNTED FLUSH
(12) SLC-2 (1-#14/2 TWISTED												NOTIFIER - SPRV		4 SQ. DEEP W/ DOUBLE GANG MUD RING - MOUNTED FLUSH
 											24VDC MAGNETIC DOOR HOLDERS FIRE/SMOKE DAMPER	ABH - 2500 BY OTHERS	FIELD VERIFY BY OTHERS	WALL MOUNT - DOUBLE GANG/NEW=FLUSH - EXIST.=SURFACE BY OTHERS
(L5) SLC-5 (1-#14/2 TWISTED										F/SD ANSUL	KITCHEN HOOD SYSTEM	BY OTHERS	VERIFY	VERIFY
	S1-1 (CLASS A) ORANGE/BLUE									ZM	RELAY MODULE	NOTIFIER - FZM-1		4 SQ. DEEP - MOUNTED FLUSH
	S1-2 (CLASS A) ORANGE/BLUE S1-3 (CLASS A) ORANGE/BLUE									ABBREVI		ABBREVIATION	DESCRIPTION	
	S2-1 (CLASS A) ORANGE/BLUE									E	EXISTING		MERICAN WIRE GAUGE	L1D100 OR L1M100
	S2-2 (CLASS A) ORANGE/BLUE									G	WITH GUARD / PROTECTIVE COV PENDENT MOUNT		WISTED PAIR WISTED SHIELDED PAIR	(L - DENOTES LOOP #) (D or M - DENOTES DETECTOR OR MODULE #)
	S3-1 (CLASS A) ORANGE/BLUE S3-2 (CLASS A) ORANGE/BLUE									R	RESIDENTIAL (110V) SOUNDER BASE	FPLP FI	RE POWER LIMITED PLENUM RE POWER LIMITED RISER	
	S4-1 (CLASS A) ORANGE/BLUE									WP	WEATHERPROOF			WIRE TYPE ABBREVIATED CONDUCTOR COUNT WIRE SIZE
(N10) NAC-9 (2-#14 THHN) FAP	S4-2 (CLASS A) ORANGE/BLUE									EOL		SPEAKER 2W WATTAGE TAP SETTIN	G ¹ / ₂ W 75 STROBE 30	# OF CABLES (IF OMITTED ONLY 1 CABLE NEEDED)
	STED SHIELDED) AMP1-1/2 (CLASS A) STED SHIELDED) AMP1-3/4 (CLASS A)										ELLIQUAD DETECTOR-FOUR SENSING EL	EMENTS:		
	STED SHIELDED) AMP2-1/2 (CLASS A)										NOXIDE DETECTOR - FLAME DETECTOR			
	STED SHIELDED) AMP3-1/2 (CLASS A)													
	STED SHIELDED) AMP3-3/4 (CLASS A) STED SHIELDED) AMP5-1/2 (CLASS A)									ALL SURFACE		AND-WIREMOLD PN05 OR PN10 LOW-VOLT		
	STED SHIELDED) AMP5-1/2 (CLASS A)										- , , ,	KER-STROBES SHALL BE IN MATCHING WIF		
(16/2 TWI) SPKR CKT. #8 (#16/2 TWI	STED SHIELDED) AMP7-1/2 (CLASS A)									THE RACEWA	Y FINISHES AND ROUTING PRIOR TO INS	TALLATION.		
	STED SHIELDED) AMP7-3/4 (CLASS A) REMOTE MICROPHONE WIRING;													
AUDIO CKT. WIRING; REI	MOTE ANNUNCIATOR WIRING.													
(2-#16/2 TWISTED SHIELD														
												<u>GENERAL NOTES:</u>		
	ED BELDEN 5320UJ, BELDEN 5320UM, OR BETT	ER)										1. POWER-LIMITED AND N		G MUST REMAIN SEPARATED IN CABINET. ALL
 (1-#10/2 TWP ONSHIELDE SYNC CIRCUIT WIRING (((2-#14 THHN STRANDED)) 	CLASS A)	ER)								IOTES:		1. POWER-LIMITED AND N POWER-LIMITED CIRCU	IT WIRING MUST REMAIN AT LEAST	0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT
X2 SYNC CIRCUIT WIRING (CLASS A)) PINK/PURPLE	ER)		-	- ALL SP	EAKER W	RE SHAL	L BE #16	NSTALLATION N /2 TWISTED AN	D SHIELDED.		1. POWER-LIMITED AND N POWER-LIMITED CIRCU WIRING. FURTHERMOR	IT WIRING MUST REMAIN AT LEAST	0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT DWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT
 X2 SYNC CIRCUIT WIRING (0 (2-#14 THHN STRANDED) RX REMOTE TEST SWITCH V A1 AUX-1 (2-#14 SOLID) FAA 	CLASS A)) PINK/PURPLE MIRING (#14/4 AWG) .UX1-1 (AUXILIARY DOOR) RED/BLACK	ER)		-	- ALL SP - ALL FIE	EAKER W	RE SHAL TABLE W	L BE #16. VATTAGE	/2 TWISTED AN	D SHIELDED.	SET TO 1/2 WATT UNLESS	1. POWER-LIMITED AND N POWER-LIMITED CIRCU WIRING. FURTHERMOR CABINET THROUGH DIF	IT WIRING MUST REMAIN AT LEAST E, ALL POWER-LIMITED AND NONPO FERENT KNOCKOUTS AND/OR CON	0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT DWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT
 X2 SYNC CIRCUIT WIRING ((2-#14 THHN STRANDED) (RX) REMOTE TEST SWITCH V (A1) AUX-1 (2-#14 SOLID) FAA (A2) AUX-2 (2-#14 SOLID) FAA 	CLASS A)) PINK/PURPLE WIRING (#14/4 AWG) .UX1-1 (AUXILIARY DOOR) RED/BLACK .UX2-1 (AUXILIARY DOOR) RED/BLACK	ER)		-	- ALL SP - ALL FIE OTHER - ALL SP	EAKER W LD SELEC WISE NOT EAKER/ST	RE SHAL TABLE W ED ON PI ROBES S	L BE #16, VATTAGE LANS. SHALL BE	/2 TWISTED AN E TAPS ON SPE E RED IN COLOI	D SHIELDED. AKERS SHALL BE S R.		 POWER-LIMITED AND N POWER-LIMITED CIRCU WIRING. FURTHERMOR CABINET THROUGH DIF T-TAPPING SHALL NOT 	IT WIRING MUST REMAIN AT LEAST E, ALL POWER-LIMITED AND NONPO FERENT KNOCKOUTS AND/OR CON BE PERMITTED.	0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT DWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT IDUITS.
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THIS IS AN ADDRESSABLE FIRE ALARM SYSTEM. COORDINATE DEVICE ADDRESSES AND MAPPING WITH DAVE FULLMER - CCSD (435) 994-0350.

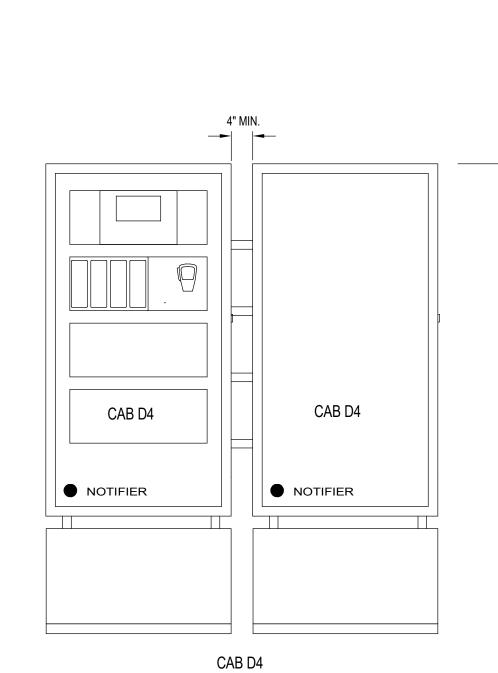


- 120VAC POWER / SWITCH / LAN _____ DIN RAIL FCPS-24S8 NAC POWER SUPPLY -----
- FCPS-24S8 DOOR HOLDER POWER SUPPLY

INTERIOR CABINET VIEW

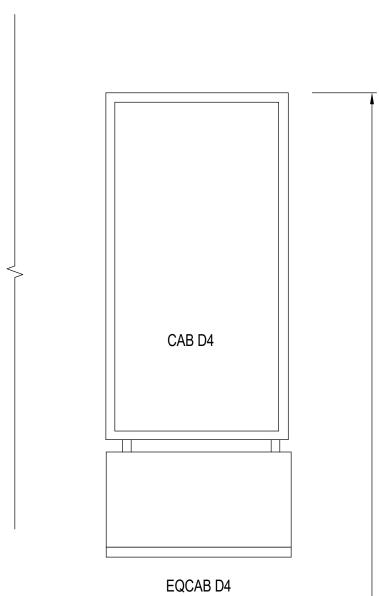
FIRE ALARM POWER SUPPLY CABINET DETAIL SCALE: NTS

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EXTERIOR CABINET VIEW

3



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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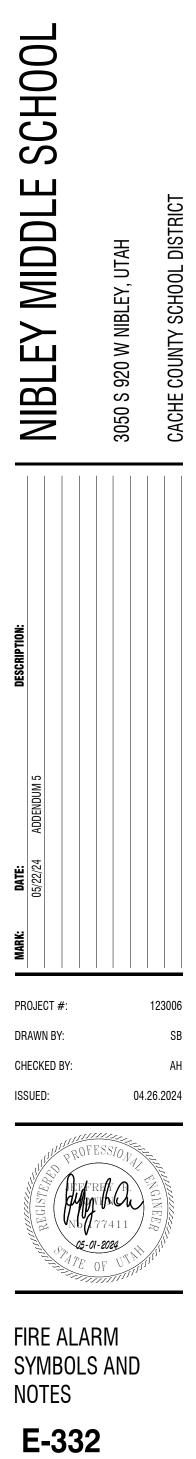
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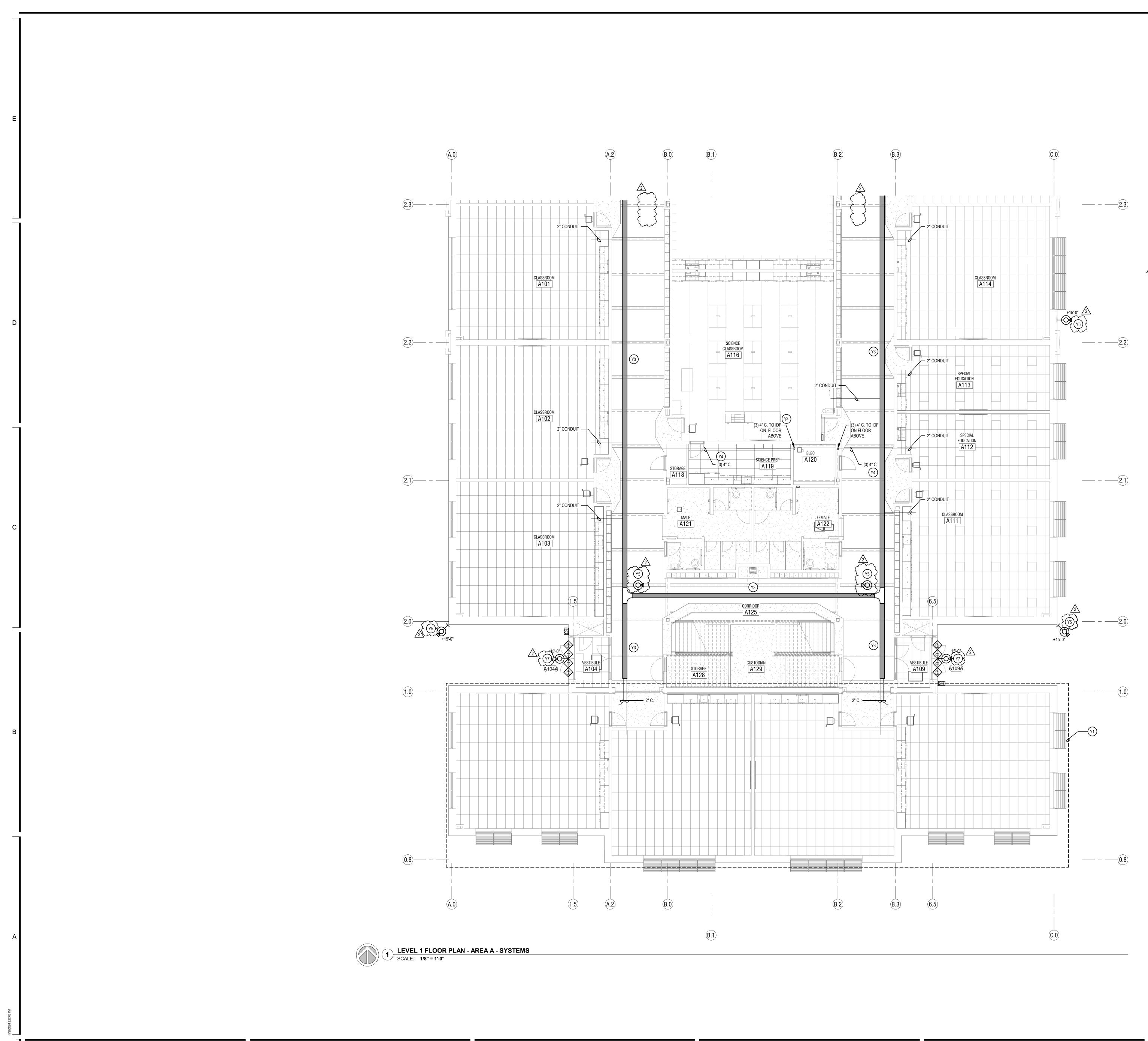
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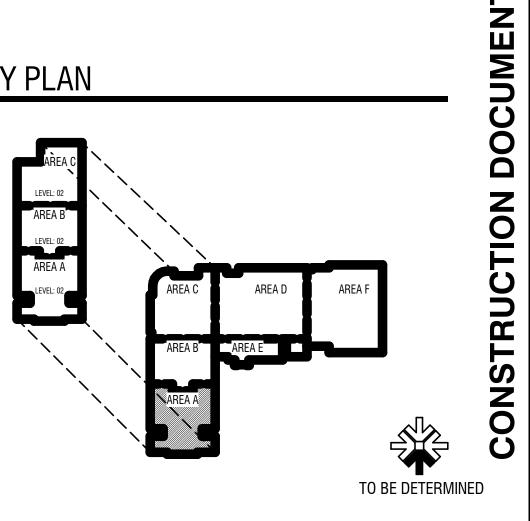


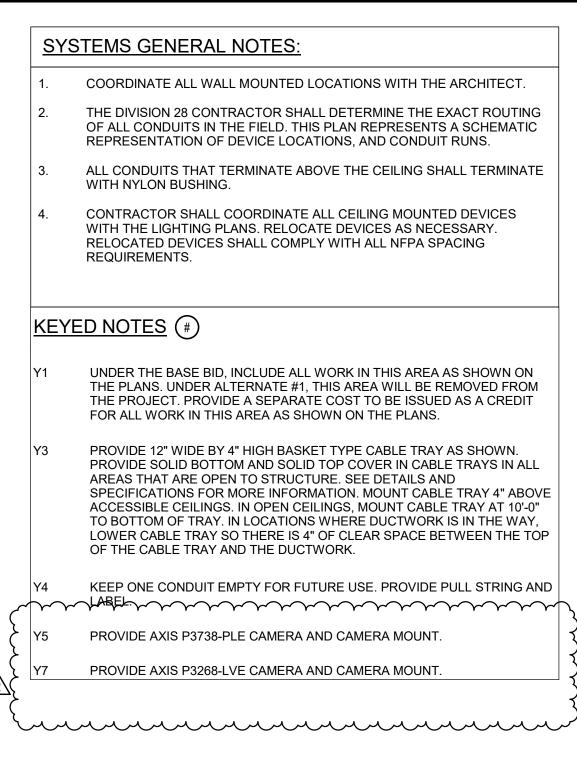




1.	COORDINATE ALL WALL MOUNTED LOCATIONS WI
2.	THE DIVISION 28 CONTRACTOR SHALL DETERMINE OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRE REPRESENTATION OF DEVICE LOCATIONS, AND C
3.	ALL CONDUITS THAT TERMINATE ABOVE THE CEIL WITH NYLON BUSHING.
4.	CONTRACTOR SHALL COORDINATE ALL CEILING M WITH THE LIGHTING PLANS. RELOCATE DEVICES A RELOCATED DEVICES SHALL COMPLY WITH ALL N REQUIREMENTS.
<u>KE</u> Y	<u>ED NOTES</u> (#)
Y1	UNDER THE BASE BID, INCLUDE ALL WORK IN THIS THE PLANS. UNDER ALTERNATE #1, THIS AREA WII THE PROJECT. PROVIDE A SEPARATE COST TO BE FOR ALL WORK IN THIS AREA AS SHOWN ON THE F
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Y1 Y3 Y4	THE PLANS. UNDER ALTERNATE #1, THIS AREA WI THE PROJECT. PROVIDE A SEPARATE COST TO BE FOR ALL WORK IN THIS AREA AS SHOWN ON THE F PROVIDE 12" WIDE BY 4" HIGH BASKET TYPE CABL PROVIDE SOLID BOTTOM AND SOLID TOP COVER I AREAS THAT ARE OPEN TO STRUCTURE. SEE DET SPECIFICATIONS FOR MORE INFORMATION. MOUN ACCESSIBLE CEILINGS. IN OPEN CEILINGS, MOUNT TO BOTTOM OF TRAY. IN LOCATIONS WHERE DUCT LOWER CABLE TRAY SO THERE IS 4" OF CLEAR SP
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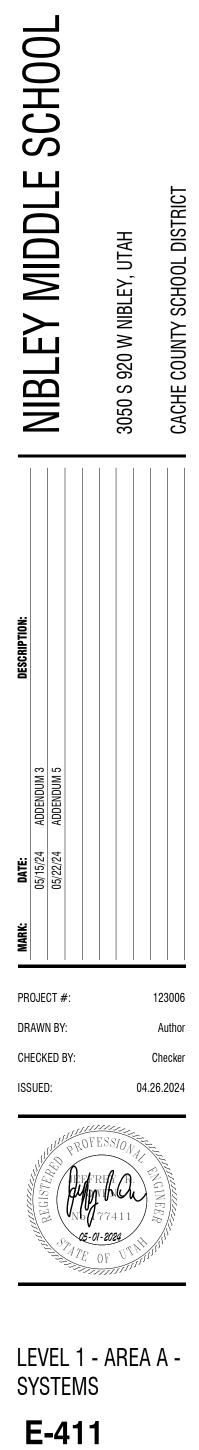
KEY PLAN





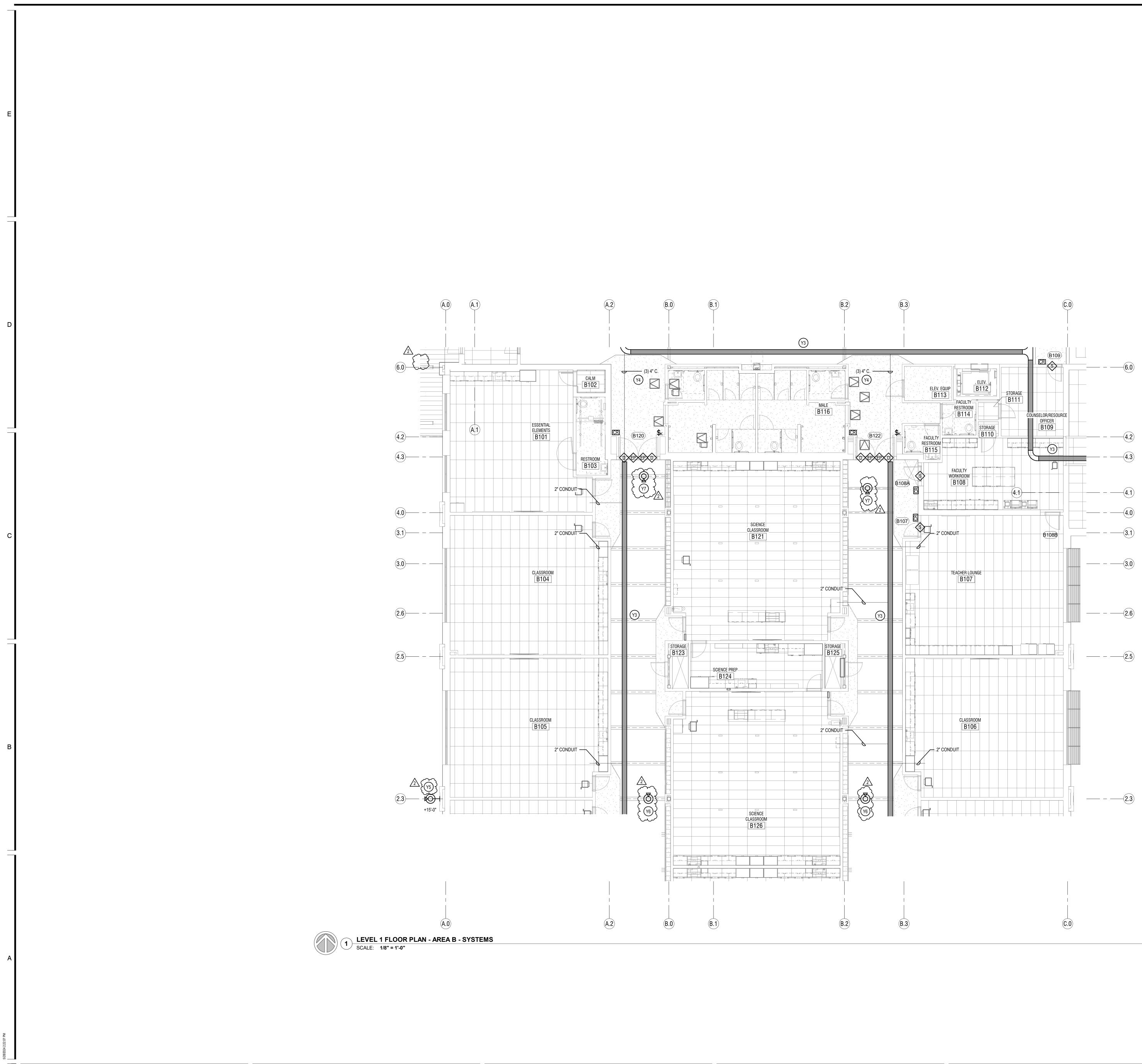




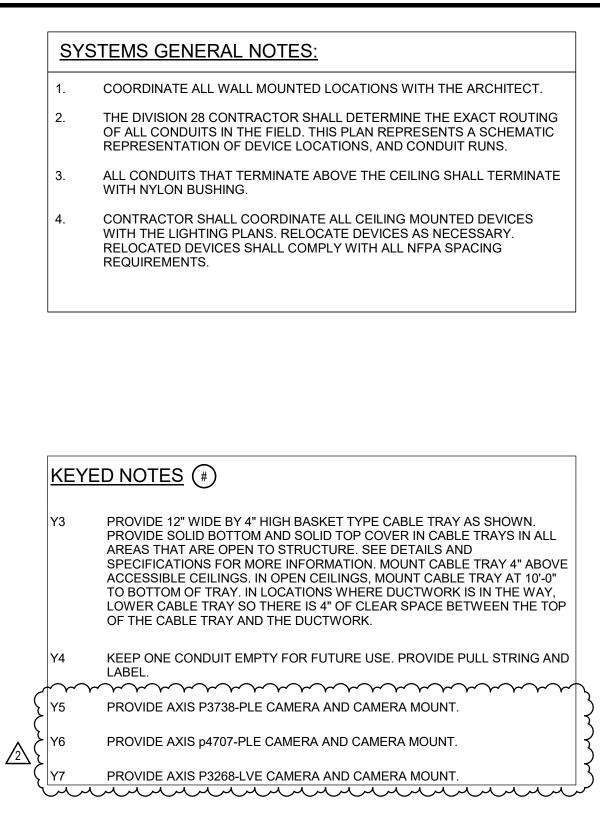


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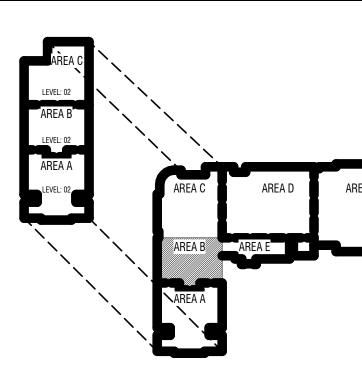




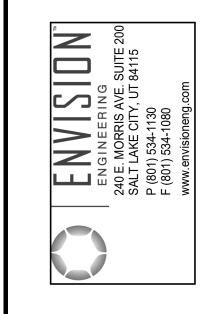
- WITH NYLON BUSHING.

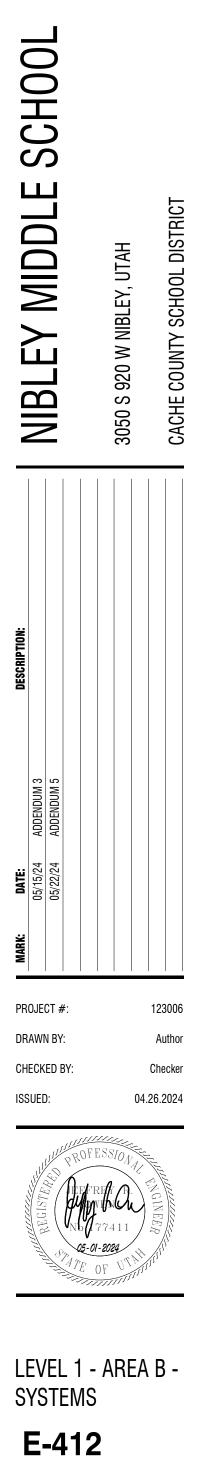












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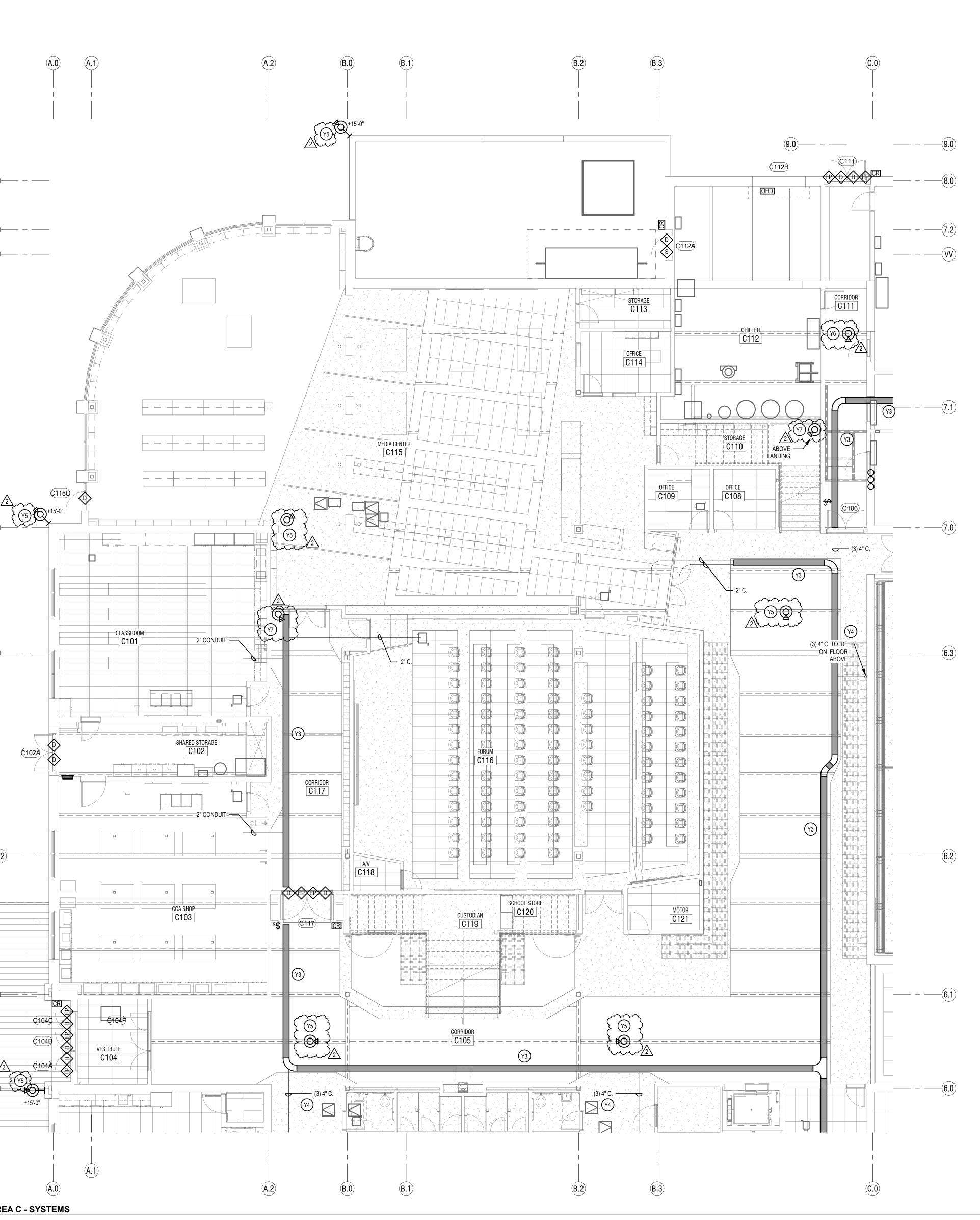
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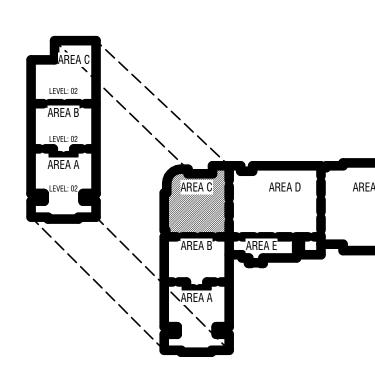


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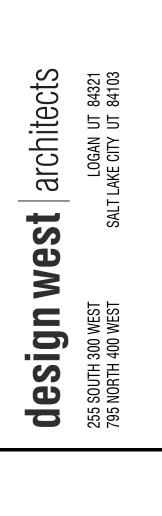
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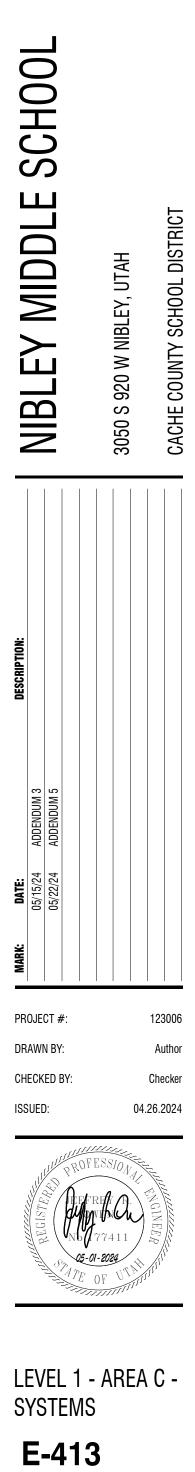
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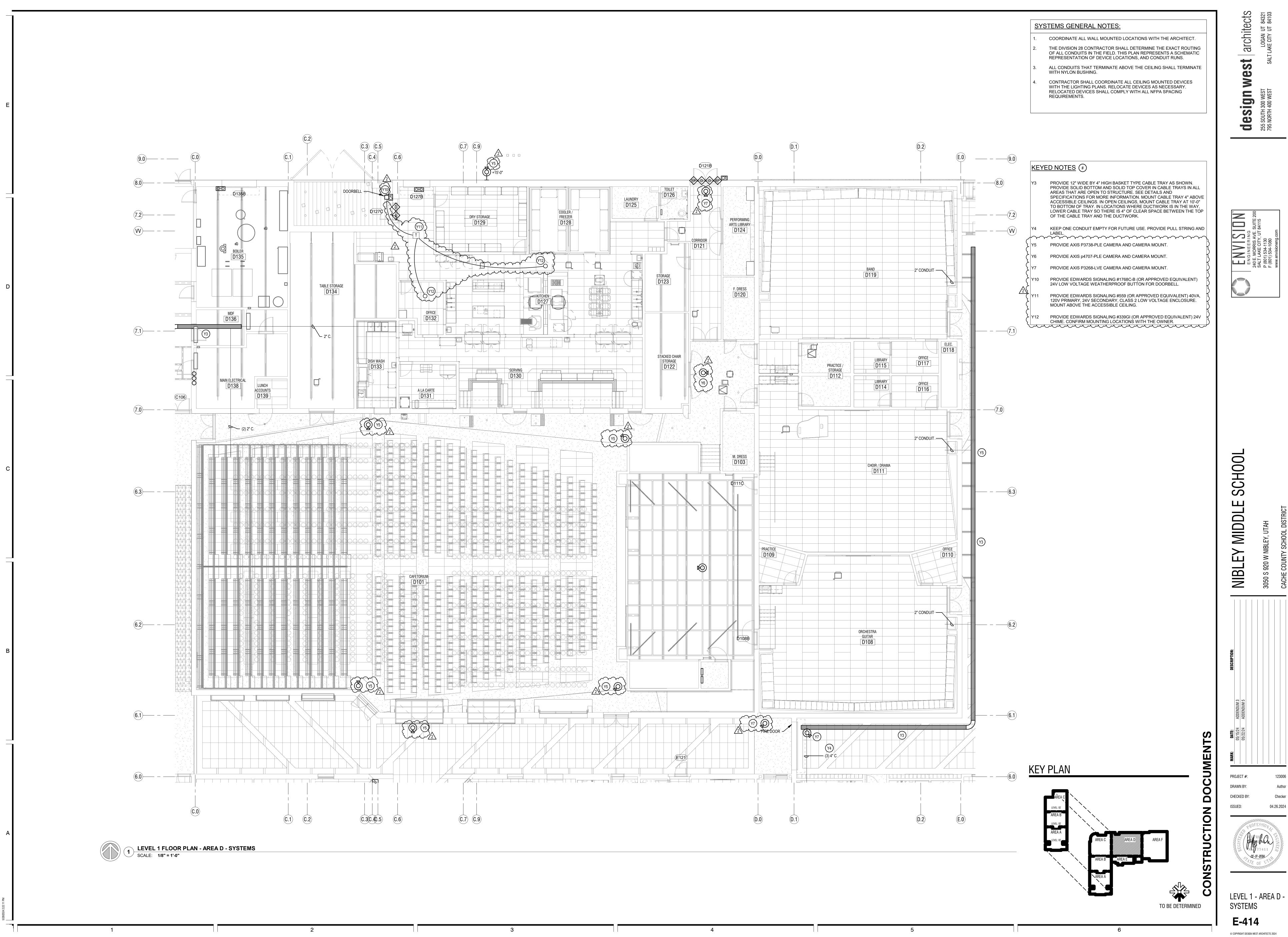
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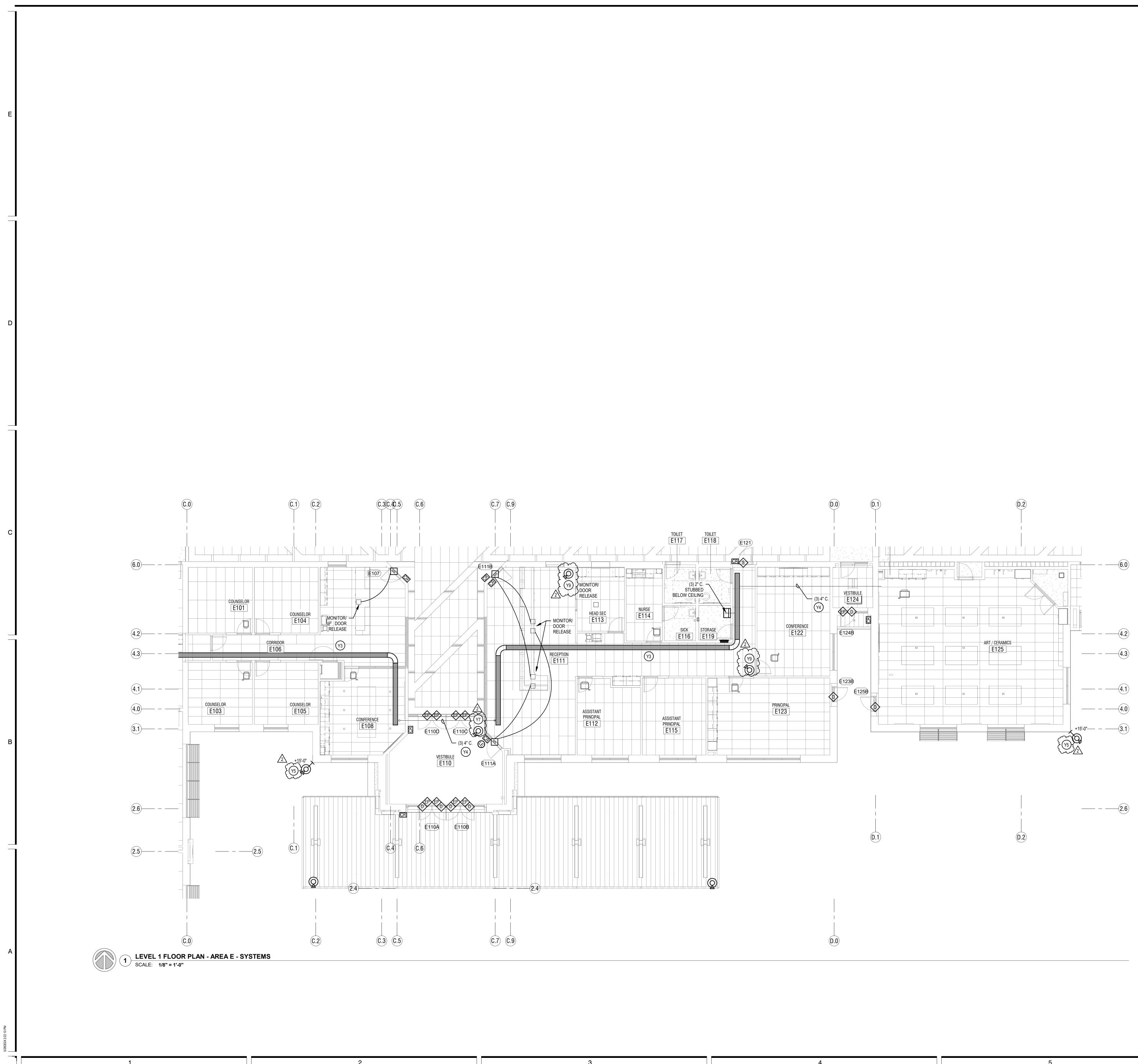
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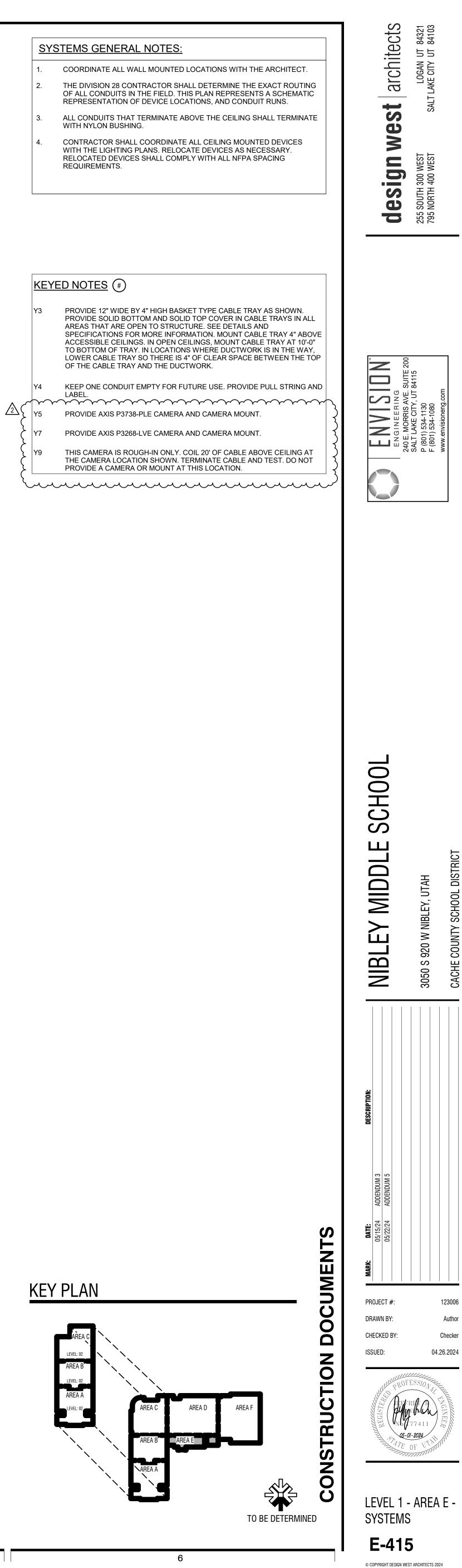
TRUCTION

ONS⁻

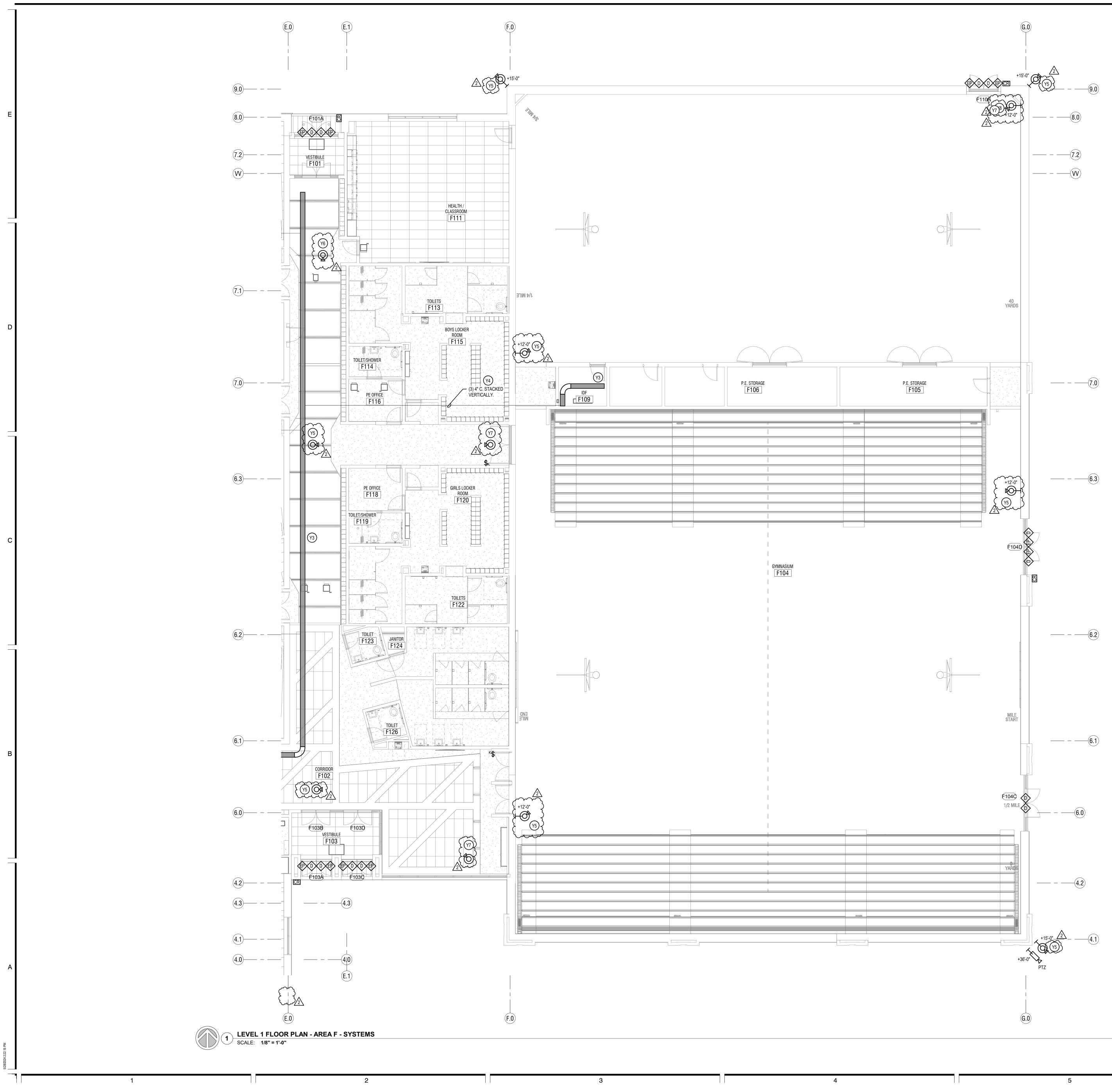
TO BE DETERMINED









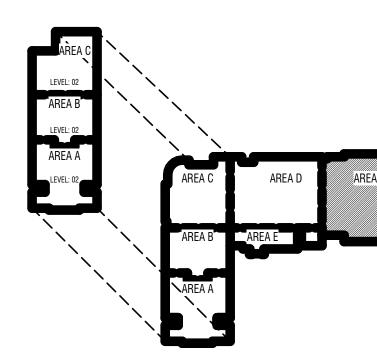


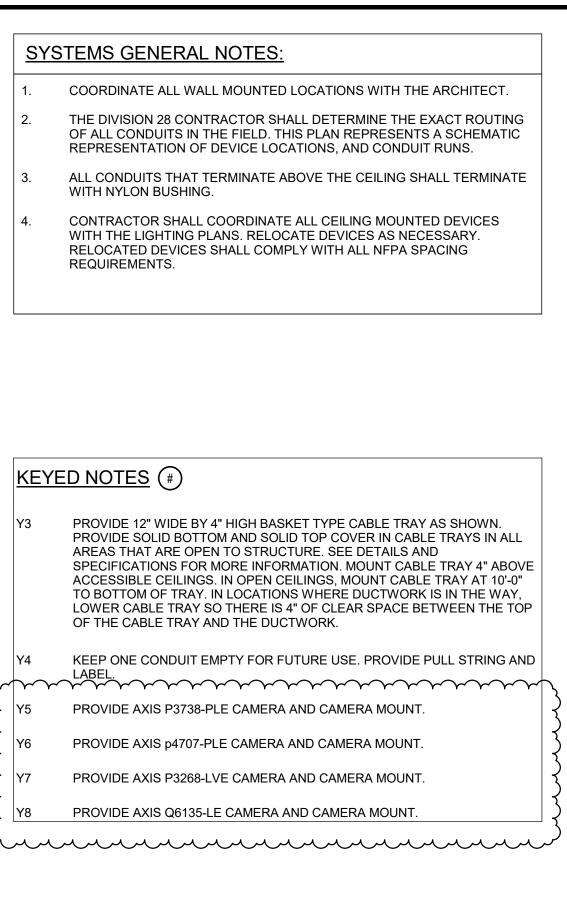
SY	<u> STEMS GENERAL NOTES:</u>
1.	COORDINATE ALL WALL MOUNTED LOCATIONS WITH
2.	THE DIVISION 28 CONTRACTOR SHALL DETERMINE T OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRES REPRESENTATION OF DEVICE LOCATIONS, AND COM
3.	ALL CONDUITS THAT TERMINATE ABOVE THE CEILIN WITH NYLON BUSHING.
4.	CONTRACTOR SHALL COORDINATE ALL CEILING MO WITH THE LIGHTING PLANS. RELOCATE DEVICES AS RELOCATED DEVICES SHALL COMPLY WITH ALL NFF REQUIREMENTS.
KEY	<u>(ED NOTES</u> (#)
KEY Y3	(ED NOTES (#) PROVIDE 12" WIDE BY 4" HIGH BASKET TYPE CABLE PROVIDE SOLID BOTTOM AND SOLID TOP COVER IN AREAS THAT ARE OPEN TO STRUCTURE. SEE DETAIL SPECIFICATIONS FOR MORE INFORMATION. MOUNT ACCESSIBLE CEILINGS. IN OPEN CEILINGS, MOUNT O TO BOTTOM OF TRAY. IN LOCATIONS WHERE DUCTW LOWER CABLE TRAY SO THERE IS 4" OF CLEAR SPAC OF THE CABLE TRAY AND THE DUCTWORK.
	PROVIDE 12" WIDE BY 4" HIGH BASKET TYPE CABLE PROVIDE SOLID BOTTOM AND SOLID TOP COVER IN AREAS THAT ARE OPEN TO STRUCTURE. SEE DETAIL SPECIFICATIONS FOR MORE INFORMATION. MOUNT ACCESSIBLE CEILINGS. IN OPEN CEILINGS, MOUNT O TO BOTTOM OF TRAY. IN LOCATIONS WHERE DUCTW LOWER CABLE TRAY SO THERE IS 4" OF CLEAR SPACE
Y3	PROVIDE 12" WIDE BY 4" HIGH BASKET TYPE CABLE PROVIDE SOLID BOTTOM AND SOLID TOP COVER IN AREAS THAT ARE OPEN TO STRUCTURE. SEE DETAIL SPECIFICATIONS FOR MORE INFORMATION. MOUNT ACCESSIBLE CEILINGS. IN OPEN CEILINGS, MOUNT O TO BOTTOM OF TRAY. IN LOCATIONS WHERE DUCTM LOWER CABLE TRAY SO THERE IS 4" OF CLEAR SPAC OF THE CABLE TRAY AND THE DUCTWORK. KEEP ONE CONDUIT EMPTY FOR FUTURE USE. PROV
Y3 Y4	PROVIDE 12" WIDE BY 4" HIGH BASKET TYPE CABLE PROVIDE SOLID BOTTOM AND SOLID TOP COVER IN AREAS THAT ARE OPEN TO STRUCTURE. SEE DETAIL SPECIFICATIONS FOR MORE INFORMATION. MOUNT ACCESSIBLE CEILINGS. IN OPEN CEILINGS, MOUNT O TO BOTTOM OF TRAY. IN LOCATIONS WHERE DUCTW LOWER CABLE TRAY SO THERE IS 4" OF CLEAR SPAC OF THE CABLE TRAY AND THE DUCTWORK. KEEP ONE CONDUIT EMPTY FOR FUTURE USE. PROV LABEL.

Y7

Y8

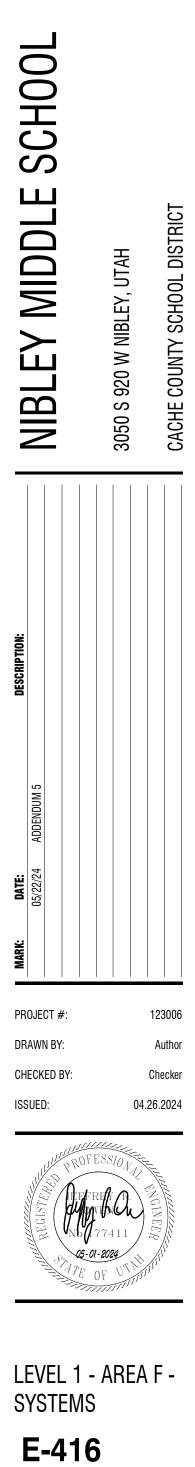
KEY PLAN











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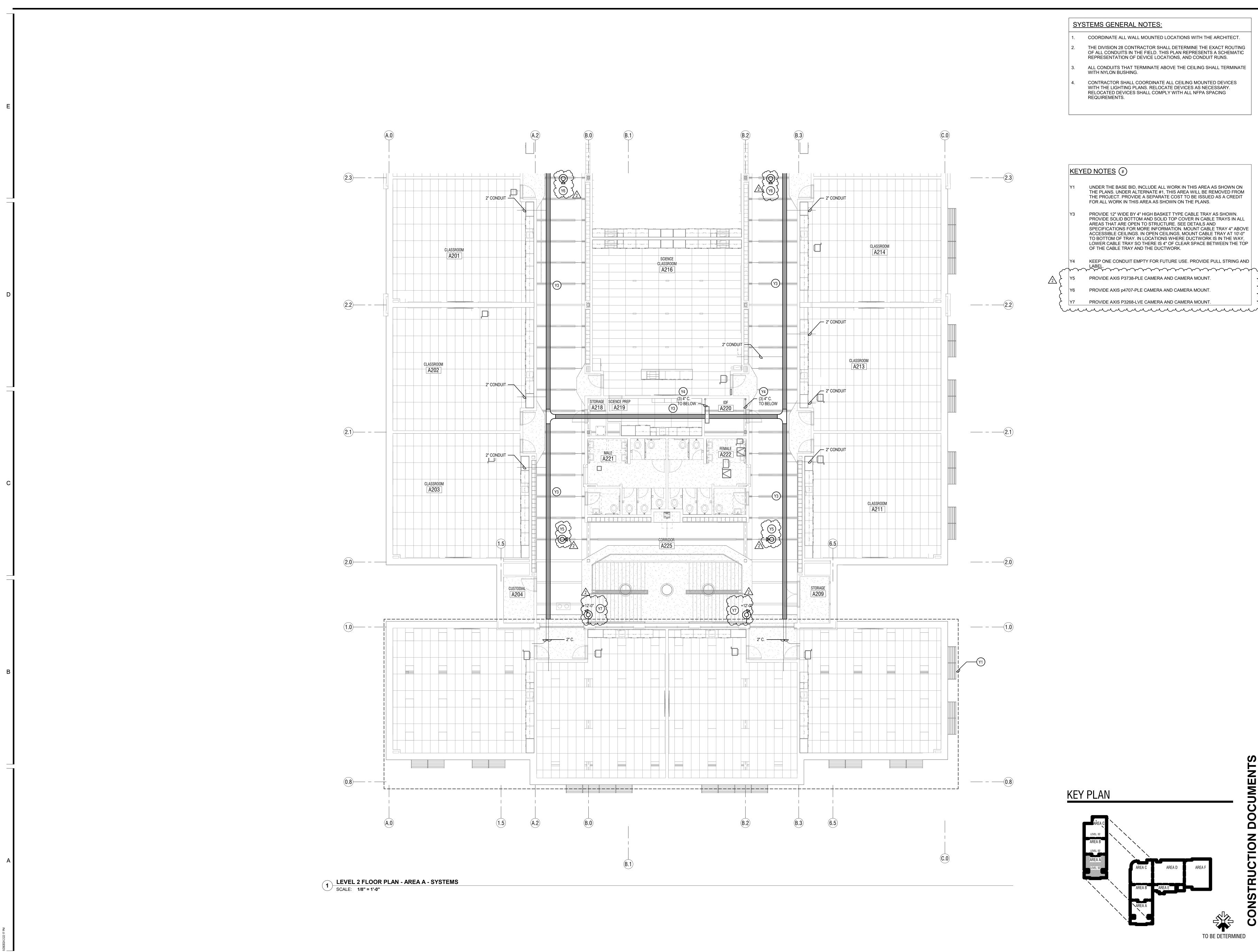
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TRUCTION

<u>SNO</u>

TO BE DETERMINED

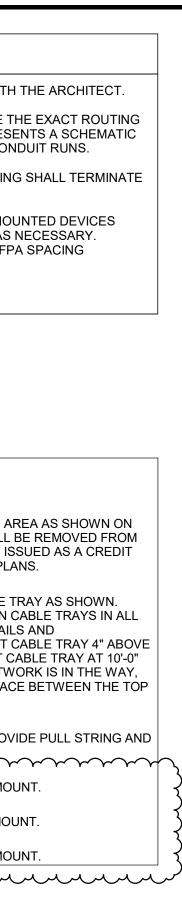


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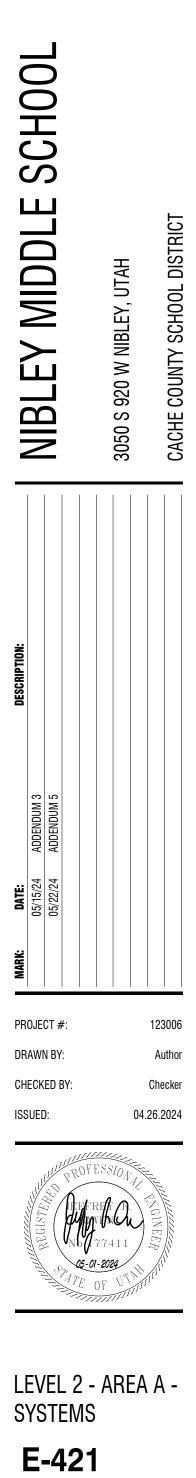
COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.

- ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE
- CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES









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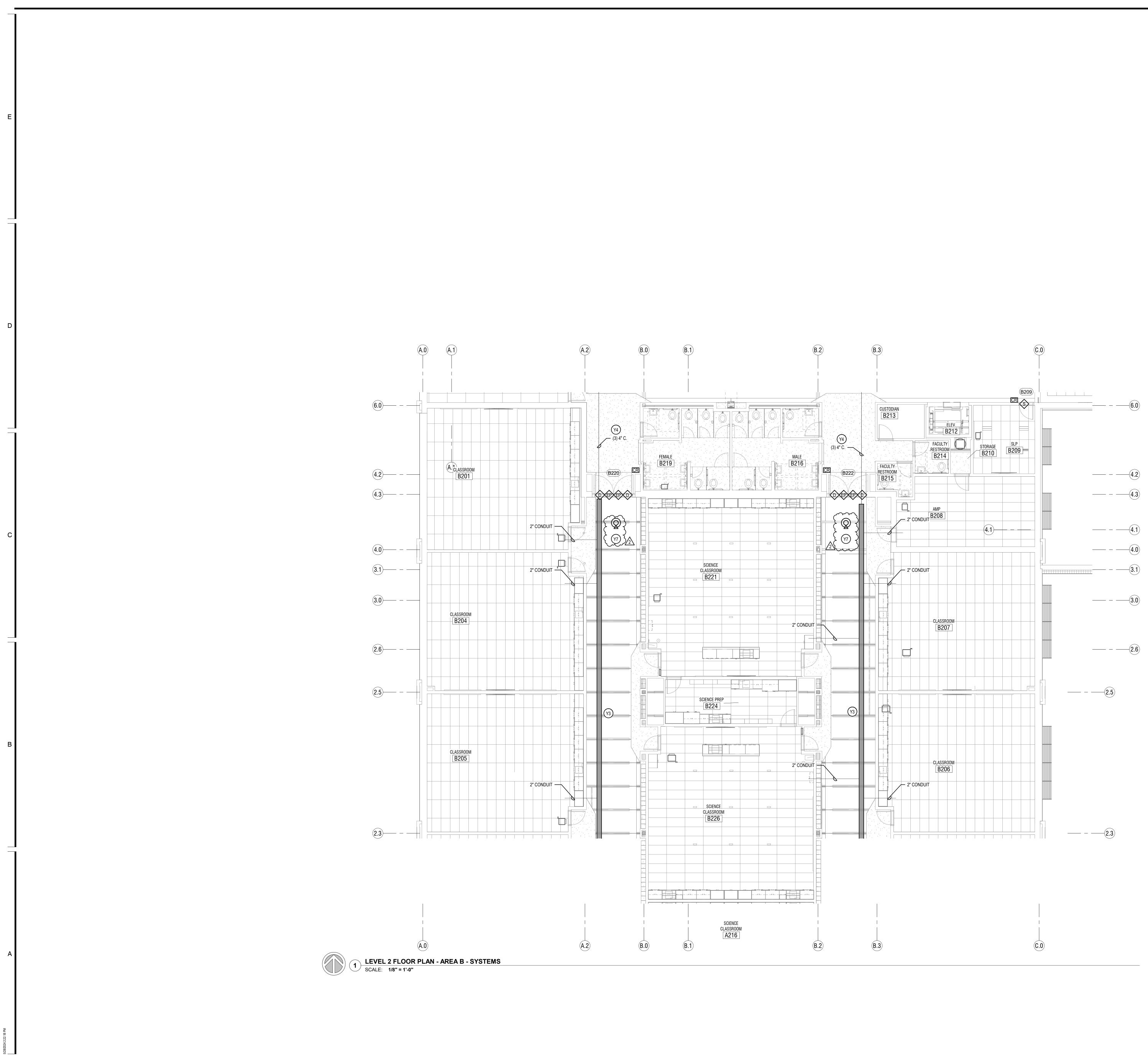
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TO BE DETERMINED

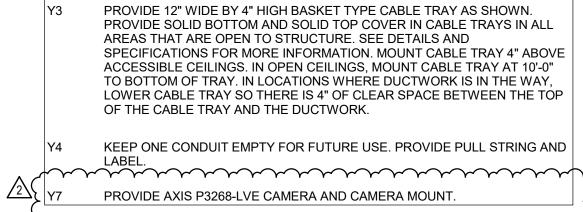


4

SYSTEMS GENERAL NOTES:

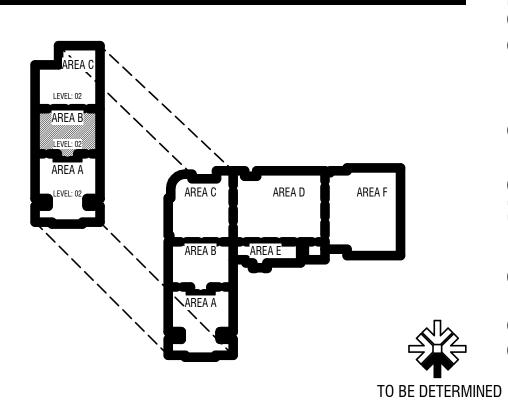
- THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT RUNS.
- ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE WITH NYLON BUSHING.
- CONTRACTOR SHALL COORDINATE ALL CEILING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

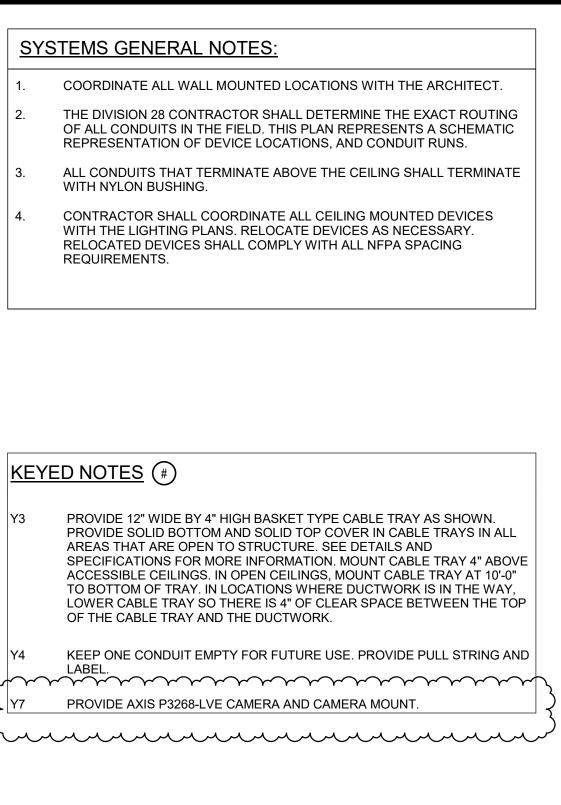
KEYED NOTES (#)



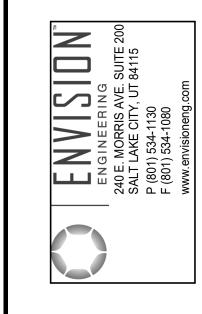
KEY PLAN

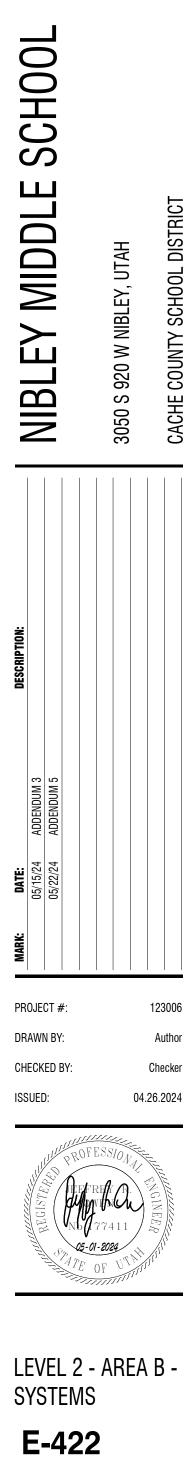
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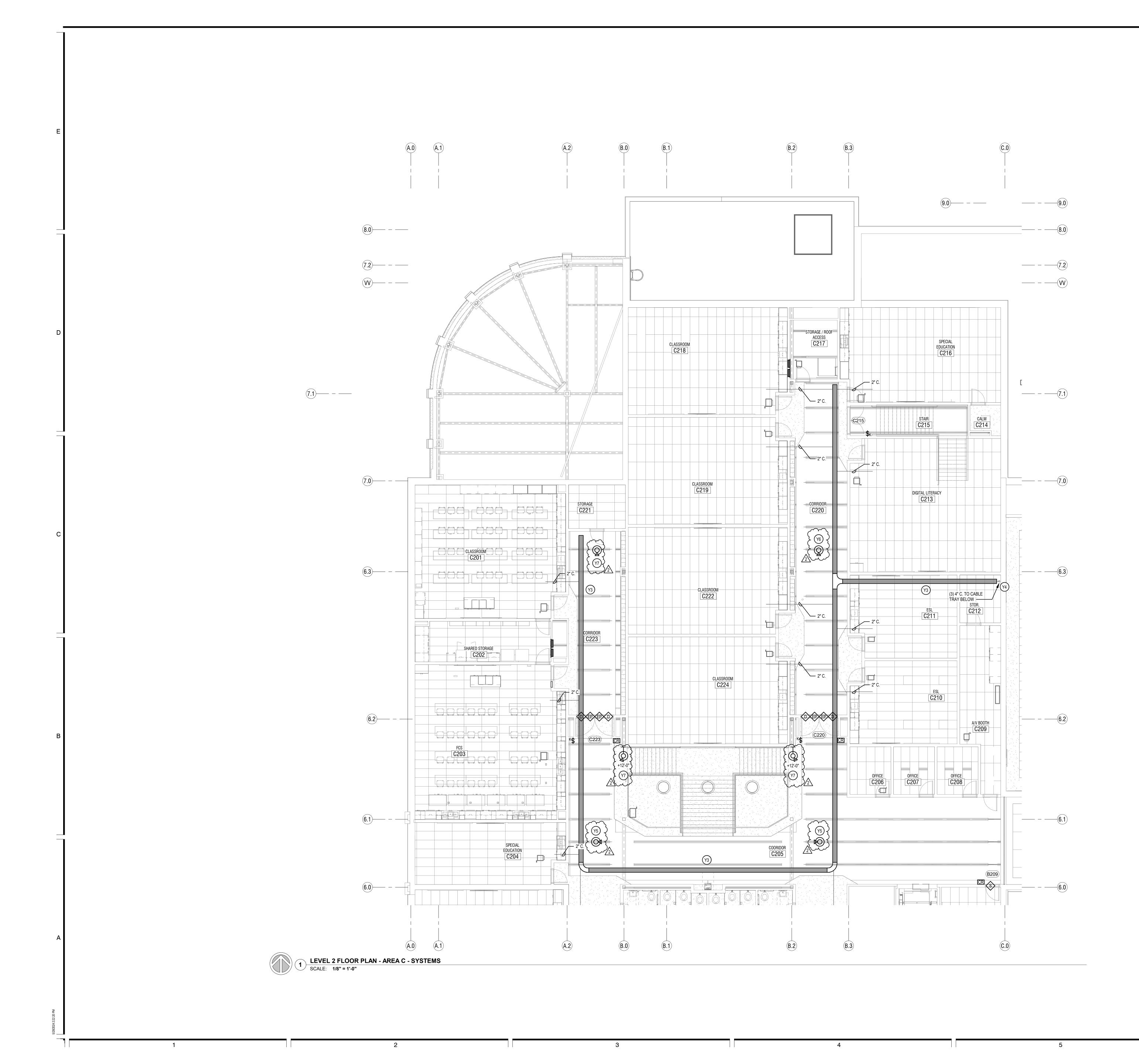
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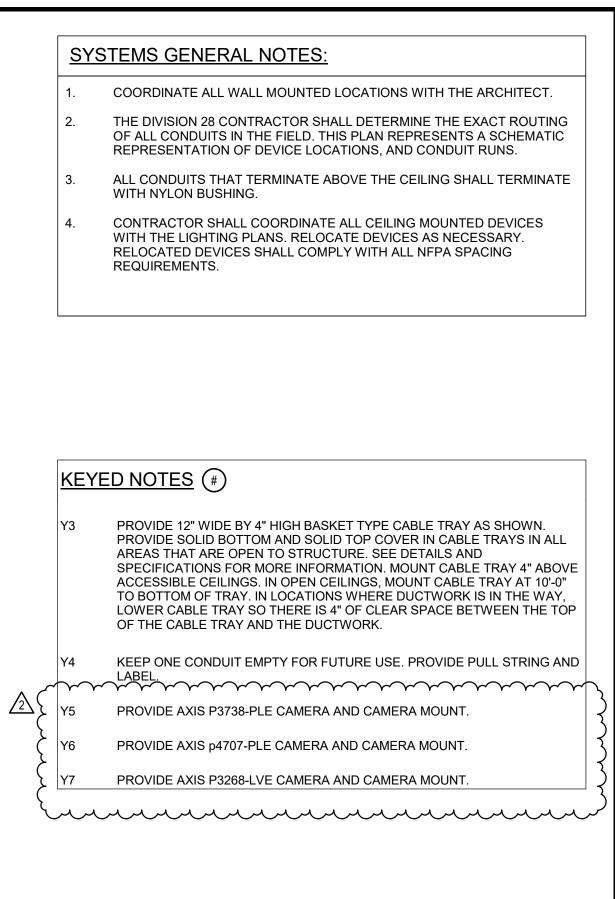
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ONSTRUCTION

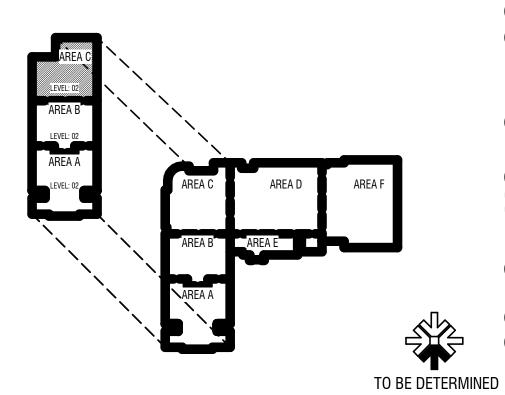
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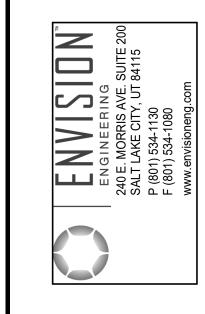
SYSTEMS GENERAL NOTES: WITH NYLON BUSHING. REQUIREMENTS.

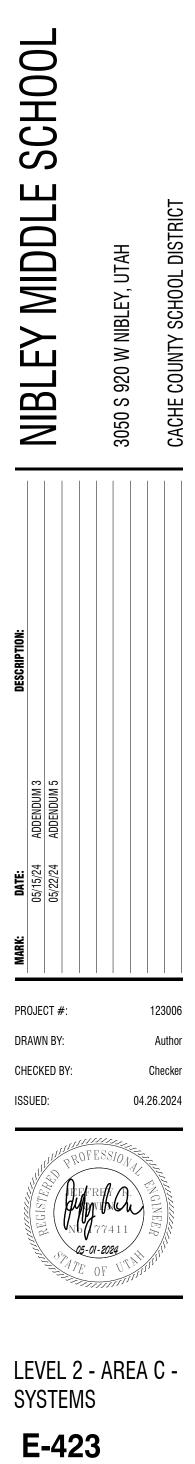


KEY PLAN









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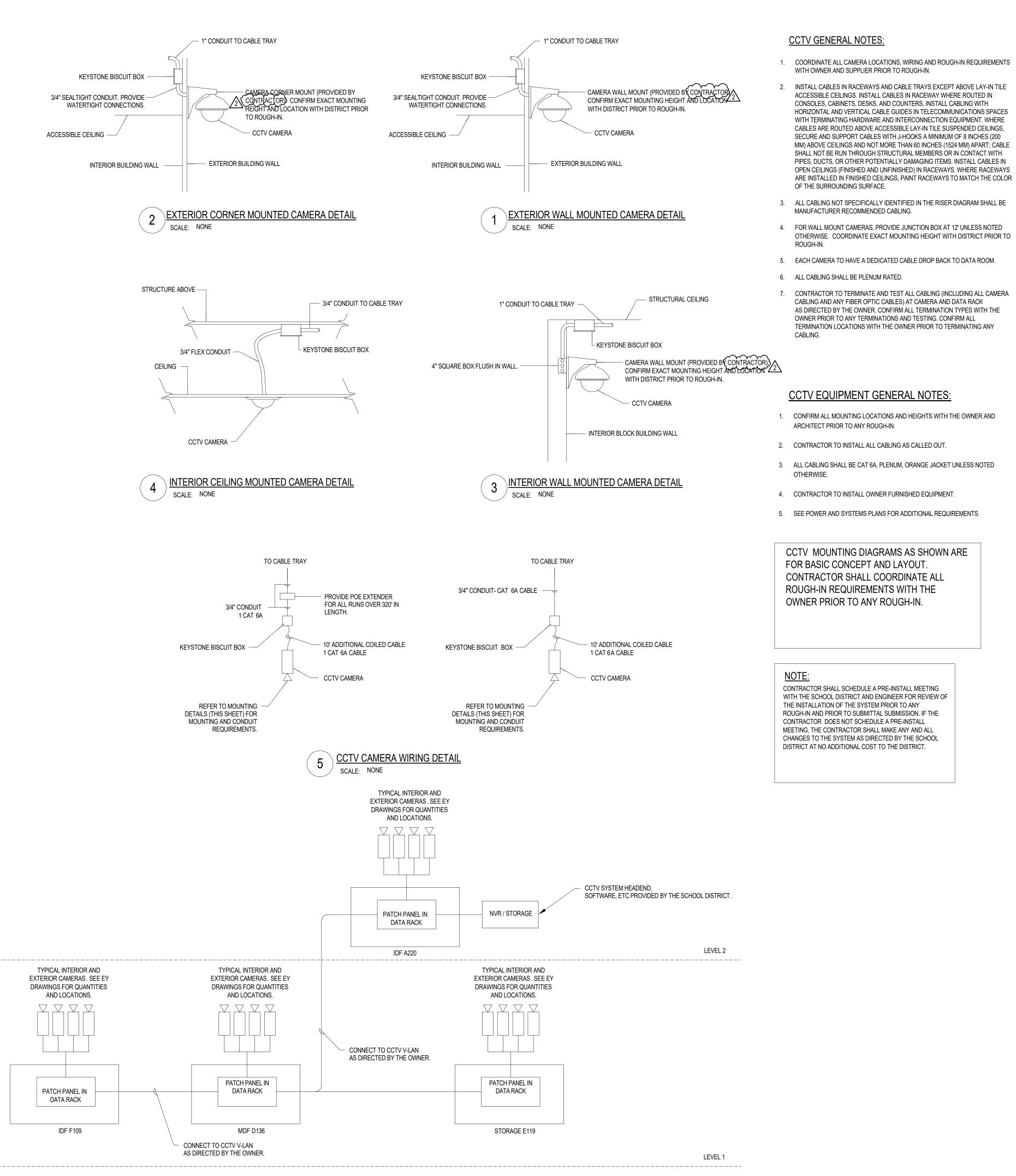
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TRUCTION

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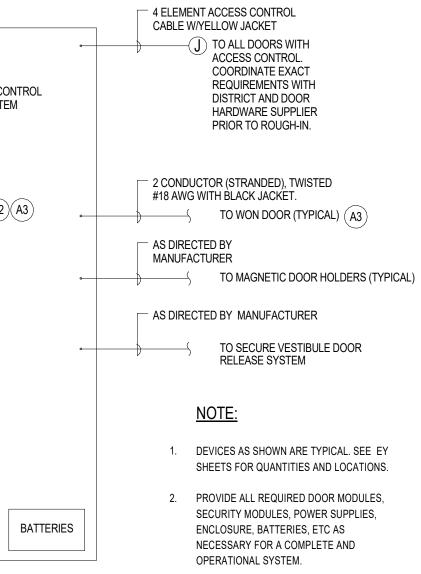
-				
E				
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С	DOORS HELD OPEN BY ELECTRONIC DOOR HOLDERS:	NOTE:		
	DOORS THAT ARE HELD OPEN BY ELECTRONIC DOOR HOLDER SHALL FUNCTION AS FOLLOWS:	CONTRACTOR SHALL SCHEDULE A PRE-INSTALL MEETING WITH THE SCHOOL DISTRICT AND ENGINEER FOR REVIEW OF THE INSTALLATION OF THE SYSTEM PRIOR TO ANY		4 ELEMENT ACCESS CONTROL CABLE W/YELLOW JACKET
	FIRE ALARM UPON ACTIVATION OF THE FIRE ALARM SYSTEM THE DOORS BEING HELD OPEN WITH ELECTRONIC DOOR HOLDERS SHALL RELEASE AND CLOSE.	ROUGH-IN AND PRIOR TO SUBMITTAL SUBMISSION. IF THE CONTRACTOR DOES NOT SCHEDULE A PRE-INSTALL MEETING, THE CONTRACTOR SHALL MAKE ANY AND ALL	ACCESS CONTROL	ACCESS CONTROL. COORDINATE EXACT REQUIREMENTS WITH
	THE FIRE ALARM SYSTEM SHALL NOTIFY THE ACCESS CONTROL SYSTEM THAT THE FIRE ALARM HAS ACTIVATED AND UNLOCK ALL DOORS THAT ARE	CHANGES TO THE SYSTEM AS DIRECTED BY THE SCHOOL DISTRICT AT NO ADDITIONAL COST TO THE DISTRICT.	SYSTEM	DISTRICT AND DOOR HARDWARE SUPPLIER PRIOR TO ROUGH-IN.
	CONTROLLED THROUGH THE ACCESS CONTROL SYSTEM.			☐ 2 CONDUCTOR (STRANDED), TWISTED
	UPON ACTIVATION OF A LOCK DOWN THE ACCESS CONTROL PANEL SHALL LOCK ALL DOORS CONTROLLED BY THE ACCESS CONTROL SYSTEM.		(A1)(A2)(A3)	#18 AWG WITH BLACK JACKET.
	THE ACCESS 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.	5 CONDUCTOR #22 AWG PLENUM RATED CABLE - WITH BLACK JACKET, VIA 3/4" C OR CABLE TRAY		AS DIRECTED BY MANUFACTURER TO MAGNETIC DOOR HO
	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.	TO MAIN TELEPHONE BOARD	DIALER	TO SECURE VESTIBULE I RELEASE SYSTEM
		(2) 4 TWISTED PAIR #24 AWG CATEGORY 6A – BLUE JACKET		NOTE:
		TO DATA RACK	(WEB	1. DEVICES AS SHOWN ARE TYPIC
		4 TWISTED PAIR #24 AWG CATEGORY 6A – BLUE JACKET		2. PROVIDE ALL REQUIRED DOOR
В	ACCESS CONTROL DOOR SEQUENCE OF OPERATIONS EXTERIOR ACCESS CONTROLLED DOORS SHALL FUNCTION AS FOLLOWS:	120V POWER	BATTERIES BATTERIES	SECURITY MODULES, POWER S ENCLOSURE, BATTERIES, ETC / NECESSARY FOR A COMPLETE
	 THE EXTERIOR ACCESS CONTROLLED DOORS SHALL FUNCTION AS DIRECTED BY THE ON HOURS OF OPERATIONS. 	WNER FOR LOCKING AND UNLOCKING DURING NORMAL		OPERATIONAL SYSTEM.
	 THE EXTERIOR ACCESS CONTROLLED DOORS SHALL GO INTO LOCK DOWN MODE AND L / DURESS BUTTON IS PUSHED. PUSHING THE LOCK DOWN BUTTON AGAIN WILL RETURN PRIOR TO THE LOCK DOWN BUTTON BEING PUSHED. 			
	 ONCE THE LOCK DOWN / DURESS BUTTON IS PUSHED AND THE ACCESS CONTROLLED D SYSTEM SHALL CALL THE MONITORING COMPANY AND NOTIFY THE MONITORING COMPA DISPATCH AS PREDETERMINED BY THE OWNER. 		SECURITY / ACCESS CONTRO) SYSTEM GENERAL NOTES
	DOOR ROUGH-IN GENERAL NOTES:		1. ALLOW SUFFICIENT LENGTH OF CABLE FOR	
	1. CONTRACTOR SHALL WORK CLOSELY WITH THE DOOR HARDWARE SUPPLIER AND AC REQUIREMENTS, ROUGH-IN AND WIRING.		2. PLENUM RATED CABLE.	
	 CONTRACTOR SHALL COORDINATE ALL JUNCTION BOX ROUGH-IN LOCATIONS WITH TH SUPPLIER PRIOR TO ANY ROUGH-IN. ALL CABLING TO DEVICES THAT ARE INSTALLED WITHIN DOOR OR ON MULLIONS SHAL INSTALLED ANY ROUGH IN STALLED WITHIN DOOR OR ON MULLIONS SHALL 		 LABEL ALL CABLES AT BOTH ENDS WITH RO COORDINATE ALL REQUIREMENTS WITH WE 	
	INSTALLATION WITH THE WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN.			
	ACCESS CONTROL SYSTEM TO POWER ALL ELECTRIFIED DOOR HARDWARE THROUGH THE	A. REMOTE LINE INTERFACE (RLI): THE MODULE SHALL BE CAPABLE O	E HAVING REMOTE INPLITS	
	ACCESS CONTROL SYSTEM. CONFIRM ALL REQUIREMENTS WITH THE DOOR HARDWARE SUPPLIER. PROVIDE ALL REQUIRED POWER SUPPLIES AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.	FOR LOCK/UNLOCK, PATRON DEVICES (PAT) AND RESET AND SHALL THE LOK THE LINES BETWEEN THE LOK MODULE AND THE RLI SHAL FOR LINE SHORTS, OPEN LINES, AND LINES SHORTED TO GROUND.	L BE WITHIN 5,000 FEET OF L BE FULLY SUPERVISED	
	2. FIRE ALARM SYSTEM TO POWER ALL MAGNETIC DOOR HOLDERS, WHERE CALLED OUT THROUGHFIRE ALARM SYSTEM. CONFIRM ALL REQUIREMENTS WITH THE DOOR HARDWARE SUPPLIER. PROVIDE ALL REQUIRED POWER SUPPLIES AS NECESSARY FOR A	PAT INPUTS SHALL BEHAVE THE SAME AS THE LOCAL INPUTS OF THE EXCEPTION THAT THE RLI PAT INPUT IS NOT IGNORED WHEN THE PARASSERTED. THE RESET INPUT SHALL BE CAPABLE OF RESTORING T	HE SAME NAME WITH THE ANIC INPUT HAS BEEN	
	 HARDWARE SUPPLIER. 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 	ASSERTED. THE RESETTINEDT SHALL BE CAPABLE OF RESTORING T OPERATION FROM THE PANIC AND FIRE MODES PROVIDED THE CAL AND/OR FIRE CONDITION HAS BEEN RESTORED TO THE RLI INPUTS CONTACTS OR THEY CAN BE DRIVEN BY VOLTAGES BETWEEN 12-24	JSE FOR THE PANIC CAN ACTIVATE WITH DRY	
А	AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.	HAS A SEPARATE SELECTOR SWITCH FOR THE DRY CONTACT VS VC LOK MODULE IS FURNISHED WITH THE WON DOOR. REFER TO SPEC ADDITIONAL INFORMATION.	OLTAGE STYLE INPUTS.	
		\sim		
		7 SECURITY SYSTEM / ACCESS CONTROLSYST	EM RISER DIAGRAM	
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5/28/2024 2:22:20 PM				
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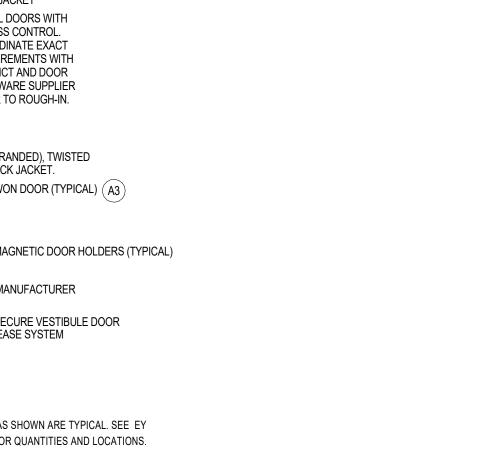




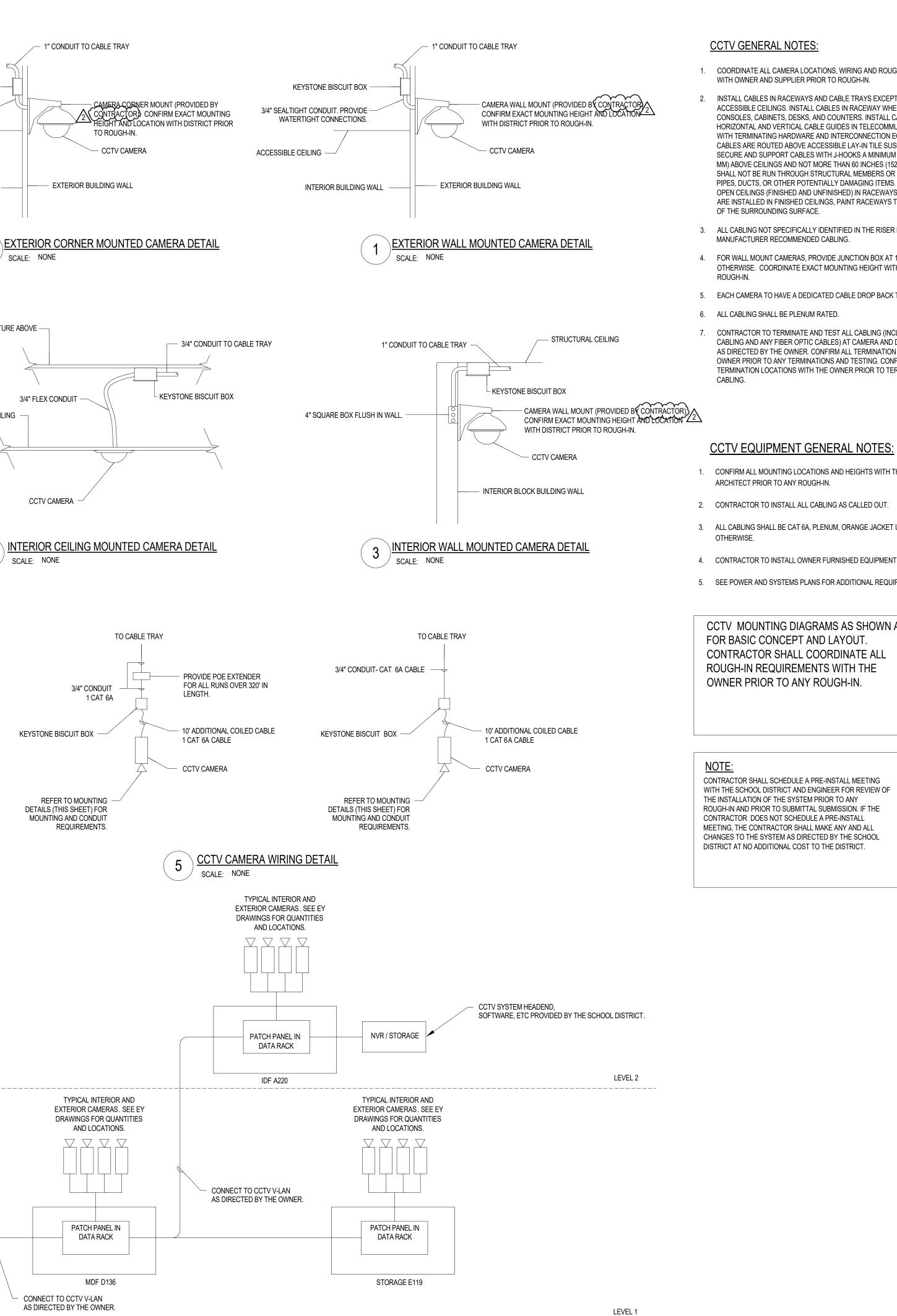
6 <u>CCTV SYSTEM RISER DIAGRAM</u> SCALE: NONE

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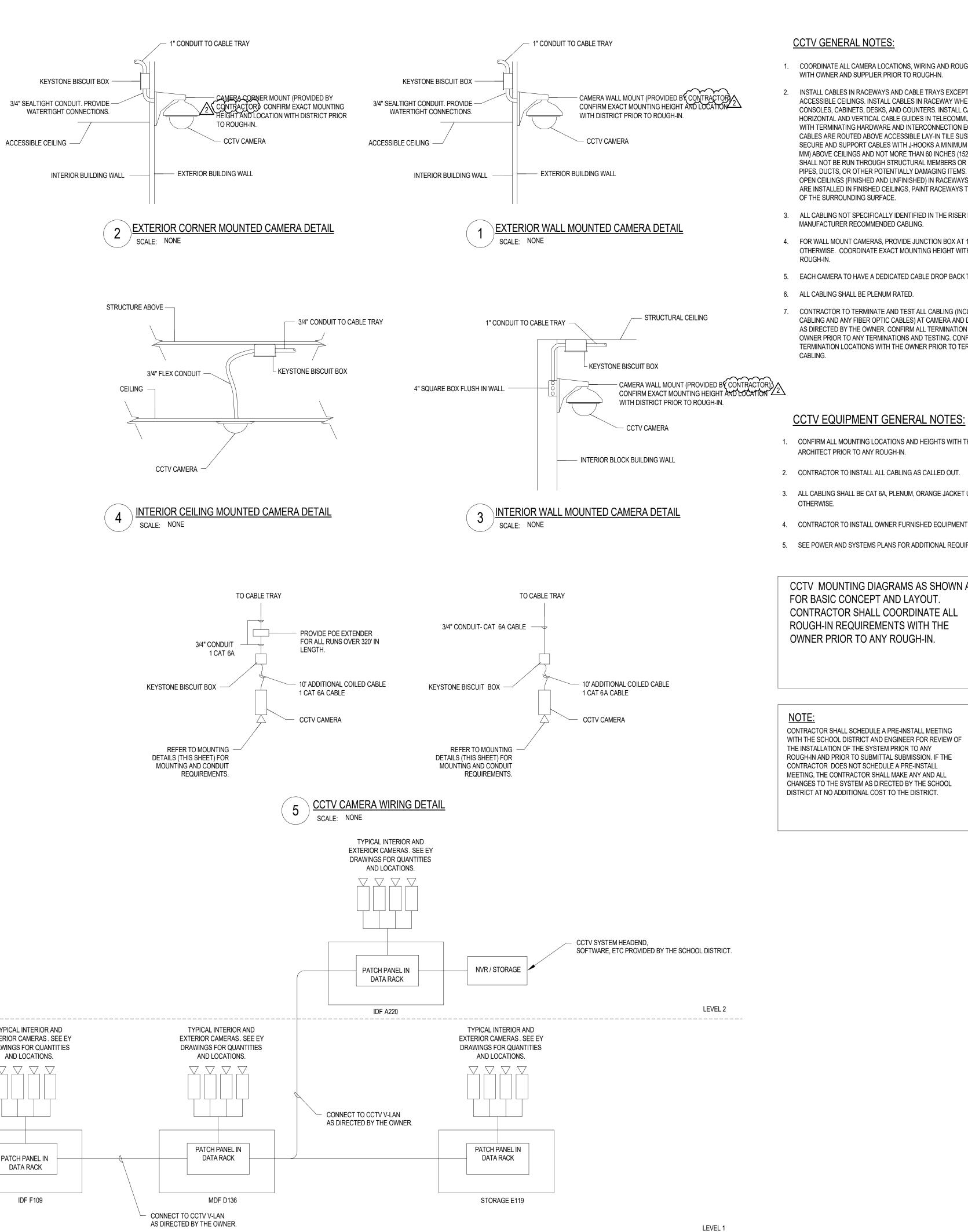


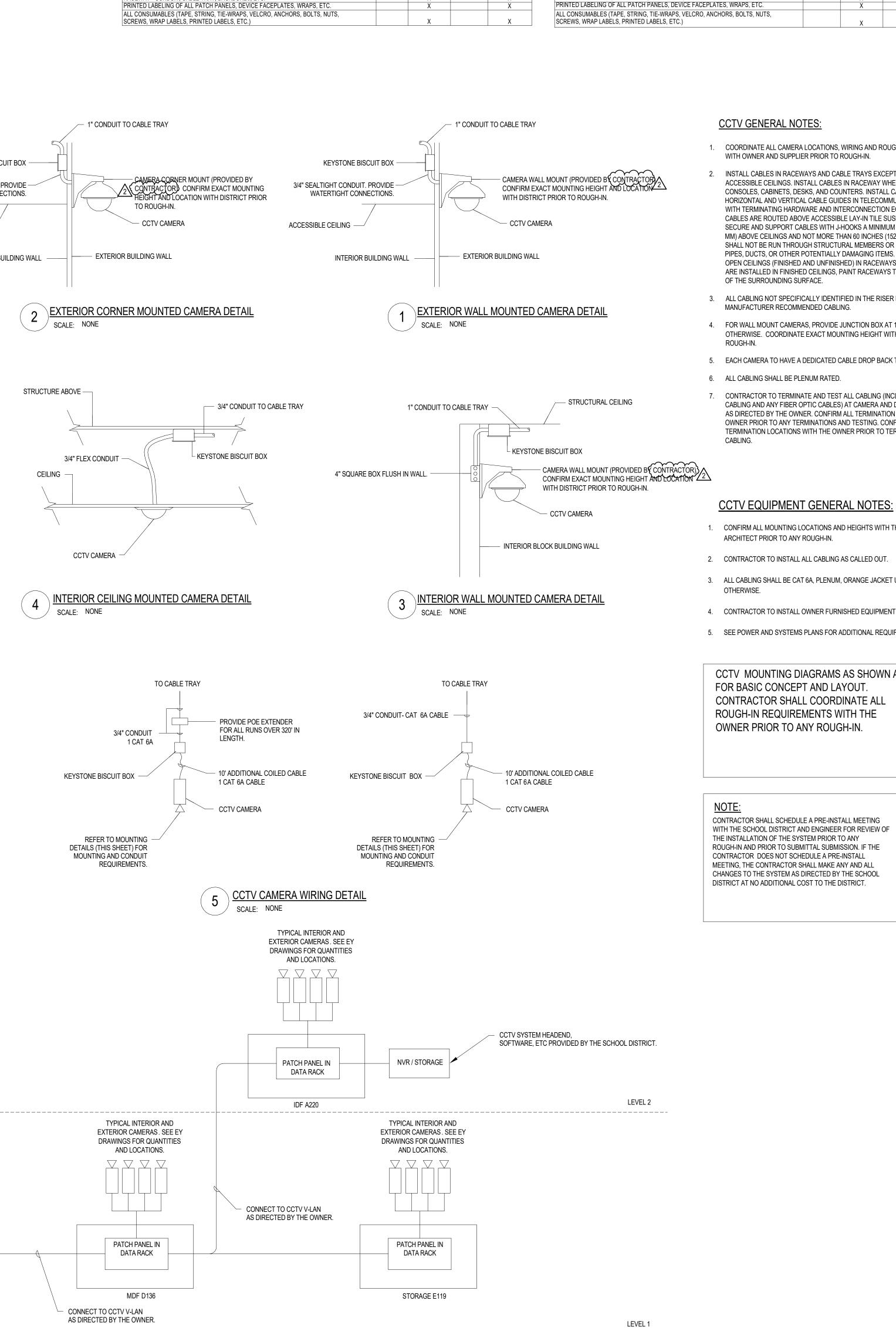


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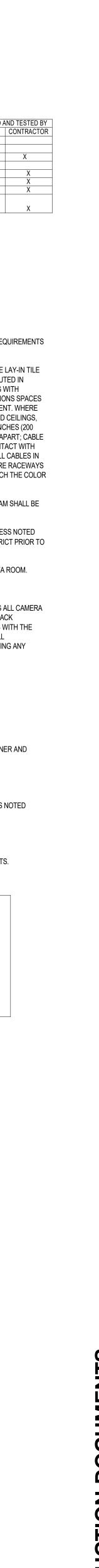






ITEM	FURNISHED /	AND TESTED BY	INSTA	LLED BY
	CCSD	CONTRACTOR	CCSD	CONTRACTOR
FACP, FATP AND NAC PANELS		Х		Х
DEVICES (SMOKE DETECTORS, HORN/STROBES, CARBON MONOXIDE DETECTORS,				
MONITOR MODULES, CONTROL MODULES BASE CONNECTIONS, ETC.)		Х		Х
FIRE ALARM TWISTED PAIR CABLING		Х		Х
RACEWAY - CONDUIT, 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 COORDINA	-	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		Х		Х
JACKET)				
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, SCREWS, WRAP LABELS, PRINTED LABELS, ETC.)		X		

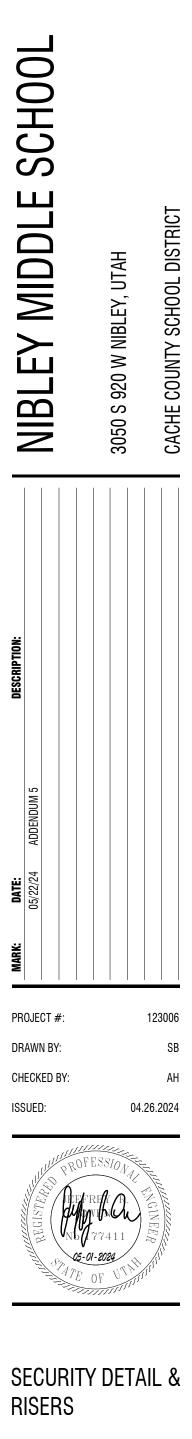
VIDEO SURVEILLANCE SCOPE COORDINA	TION TABLE			
ITEM	FURN	INSTALLED /	ANI	
	CCSD	CONTRACTOR	CCSD	C
SWITCHES	Х		Х	
NVR (NETWORK VIDEO RECORDER) SERVER, MONITORS, ETC.	Х		Х	
SECURITY CAMERAS AND MOUNTS		Х		
SECURITY CAMERA LICENSING 22	Х		Х	
ALL 4-PAIR HORIZONTAL CABLING ORANGE (CAT 6A CABLES)		Х		
RACEWAY - 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		

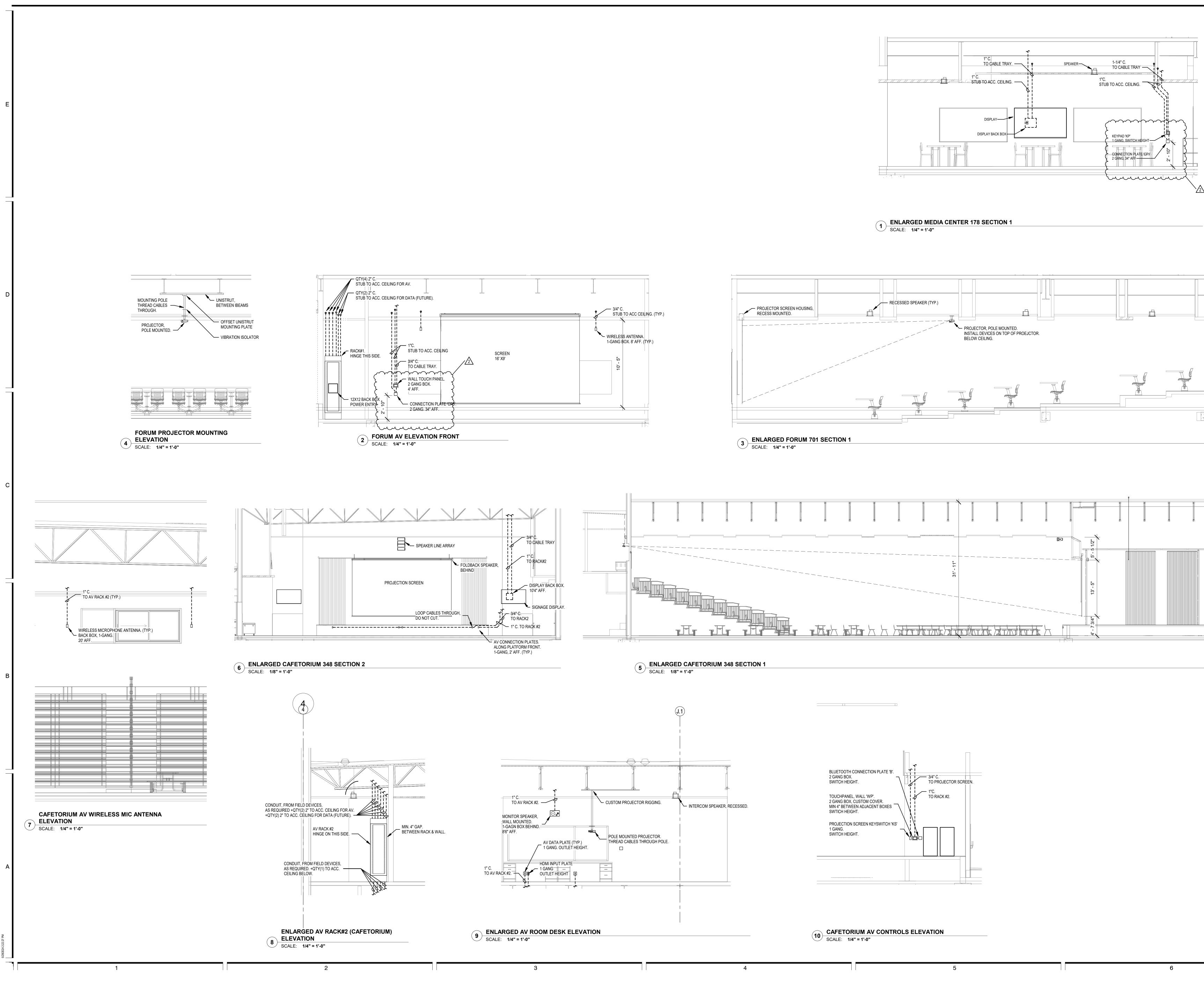




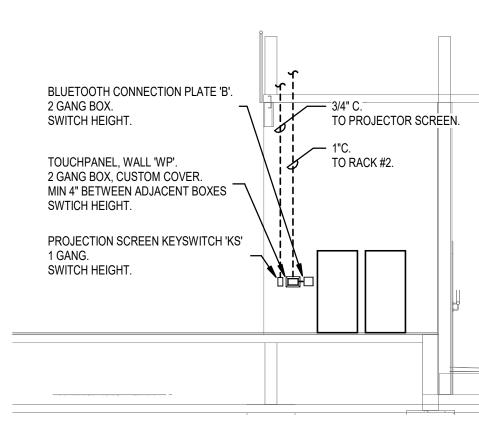








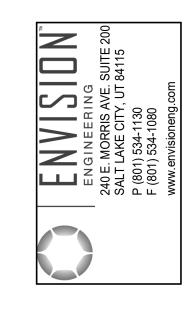


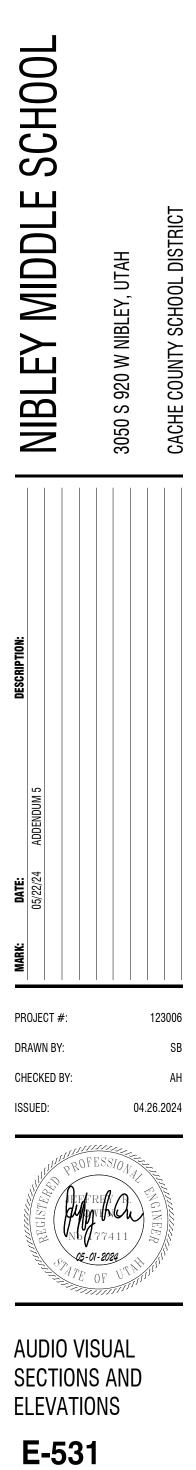


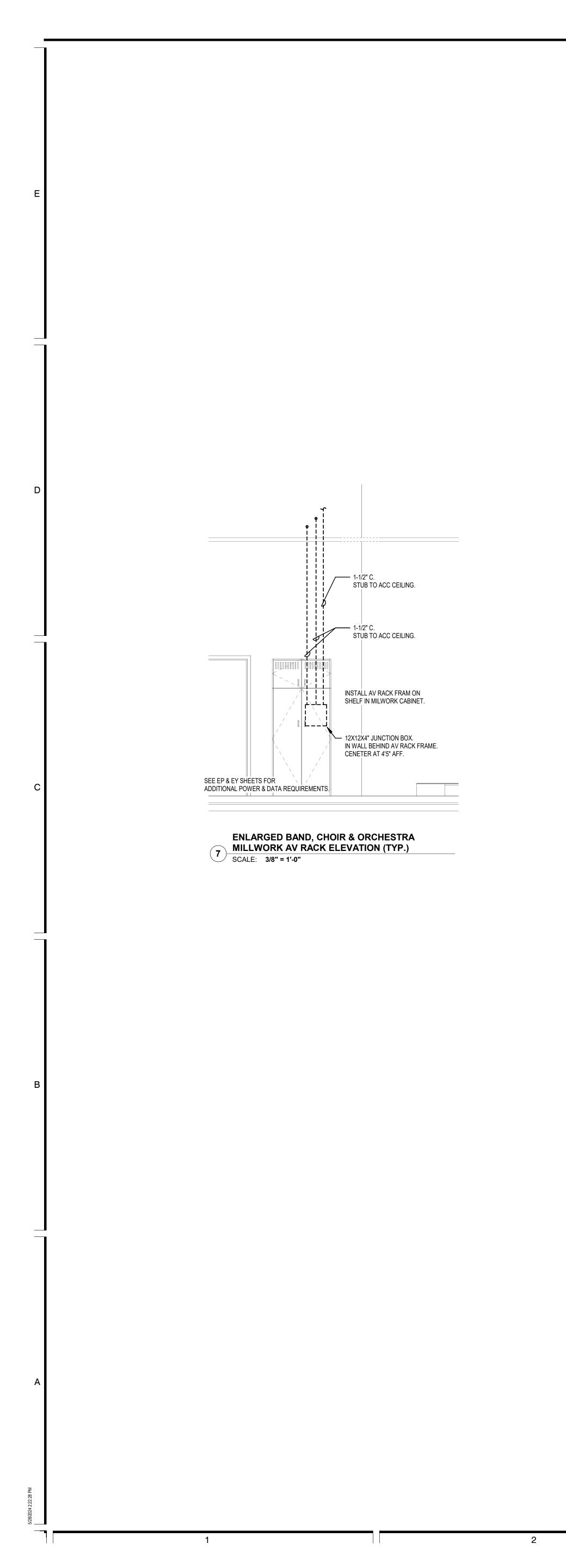




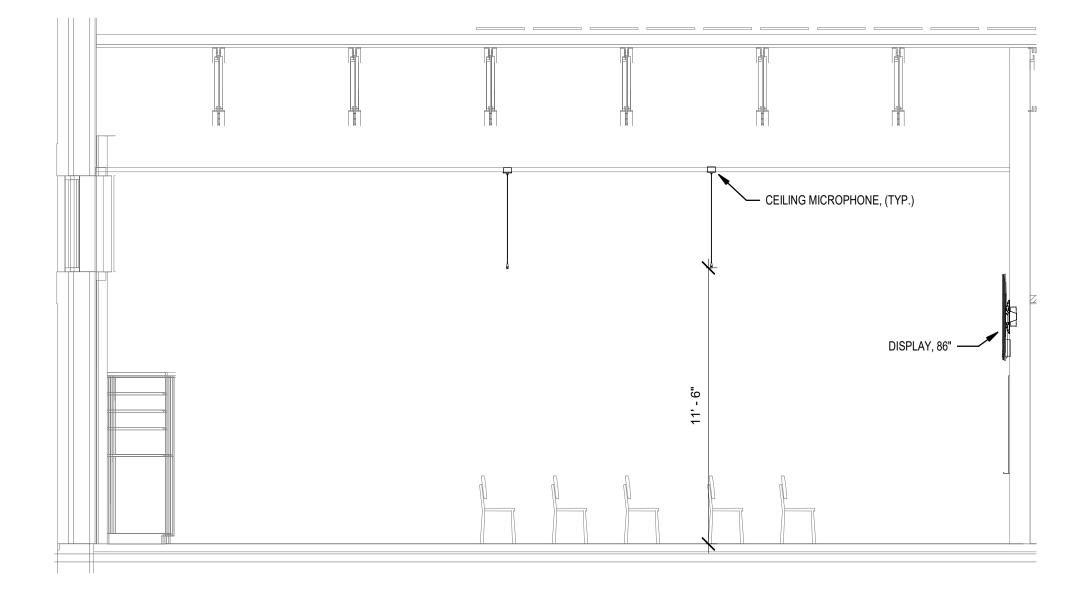
architects LOGAN UT 84321 FLAKE CITY UT 84103 design west 255 SOUTH 300 WEST 795 NORTH 400 WEST SALT SALT





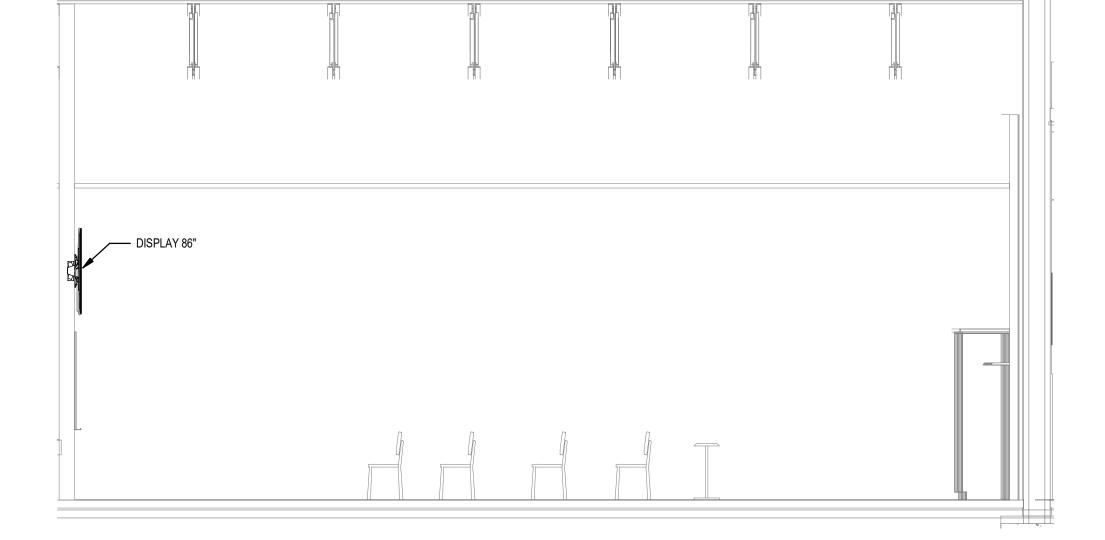


3 ENLARGED BAND SECTION 2 SCALE: 1/4" = 1'-0"

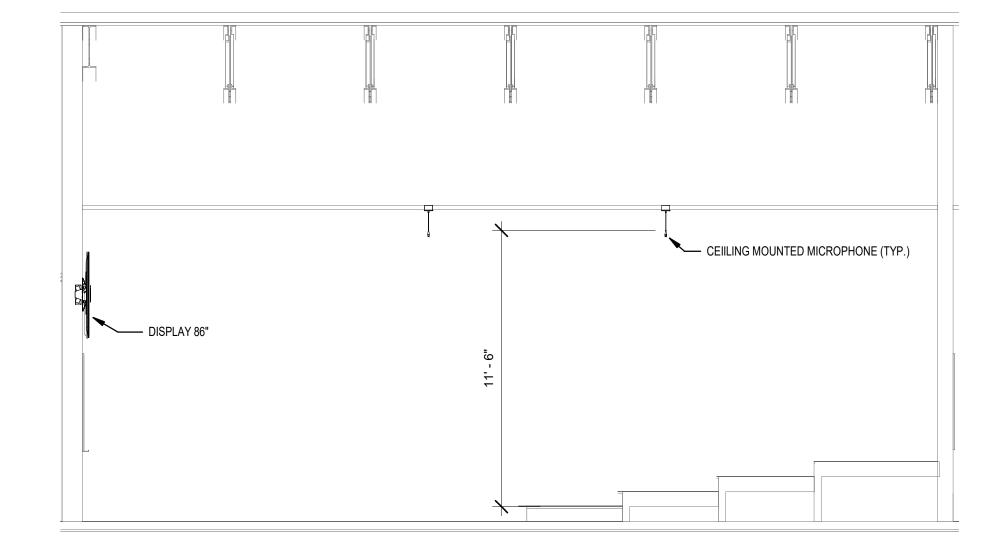


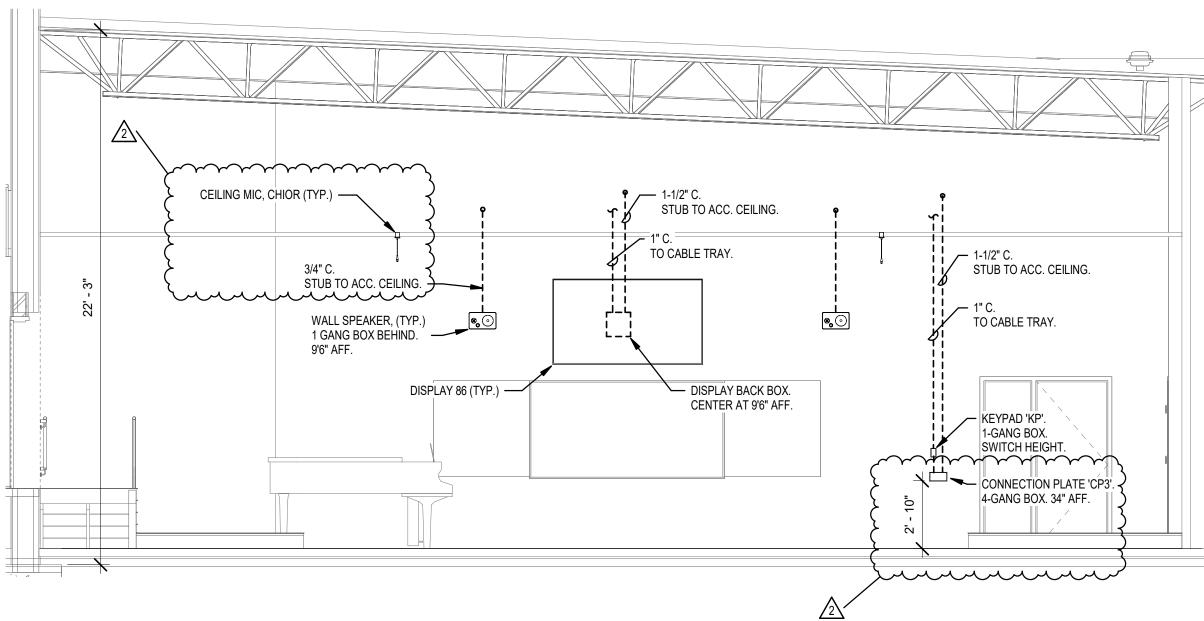
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4 ENLARGED ORCHESTRA SECTION 2 SCALE: 1/4" = 1'-0"

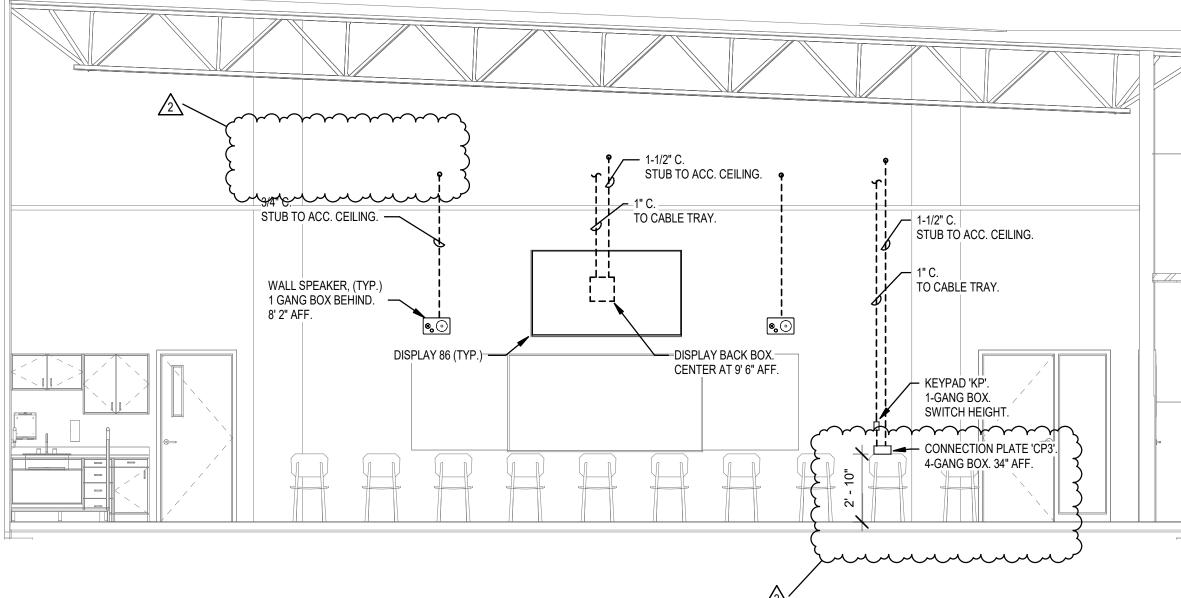


2 ENLARGED CHOIR/DRAMA SECTION 2 SCALE: 1/4" = 1'-0"





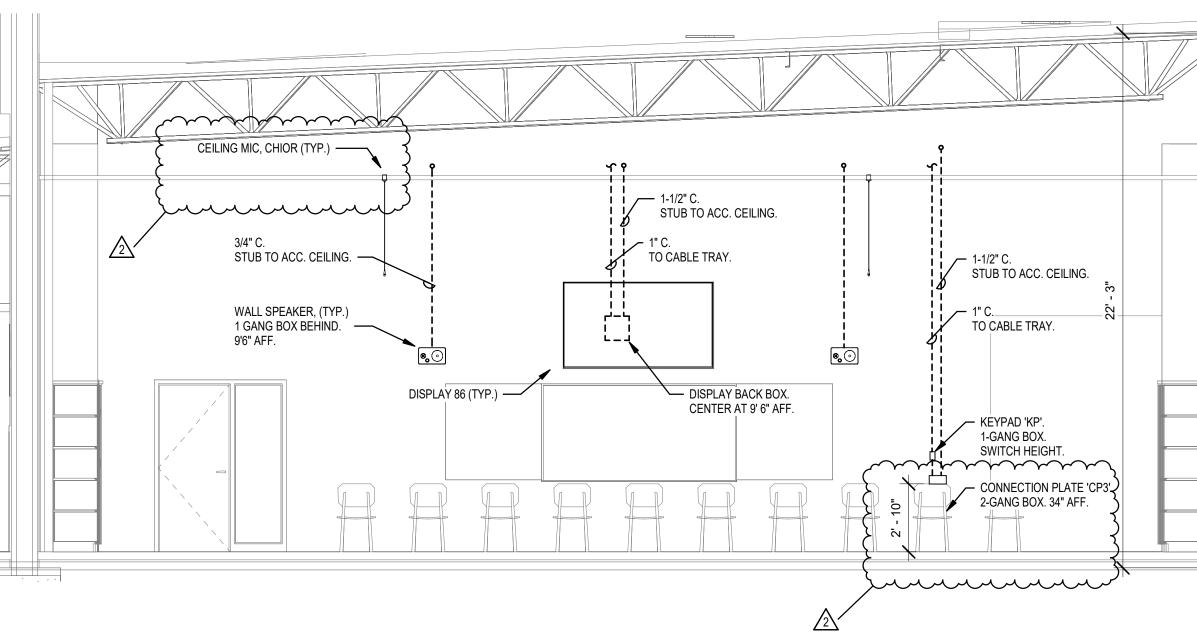
1 ENLARGED CHOIR/DRAMA SECTION 1 SCALE: 1/4" = 1'-0"



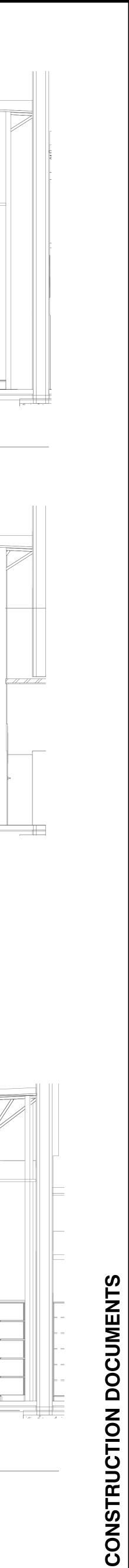
6 ENLARGED ORCHESTRA SECTION 1 SCALE: 1/4" = 1'-0"

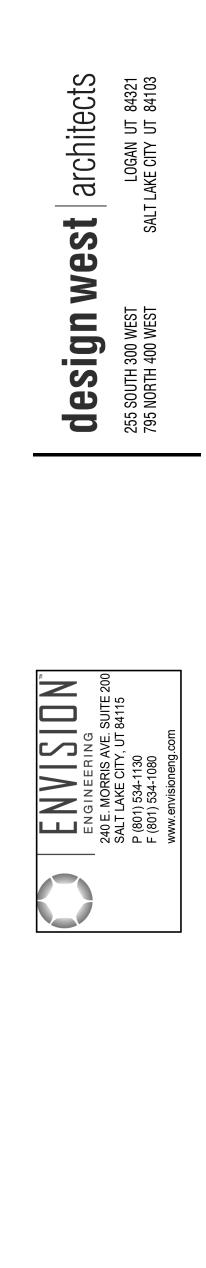
5 ENLARGED BAND SECTION 1 SCALE: 1/4" = 1'-0"

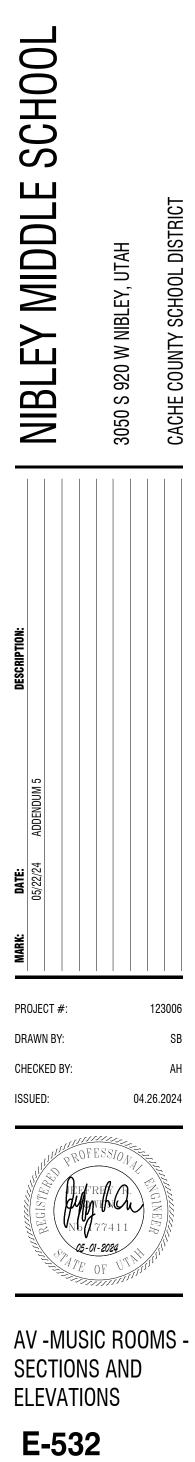
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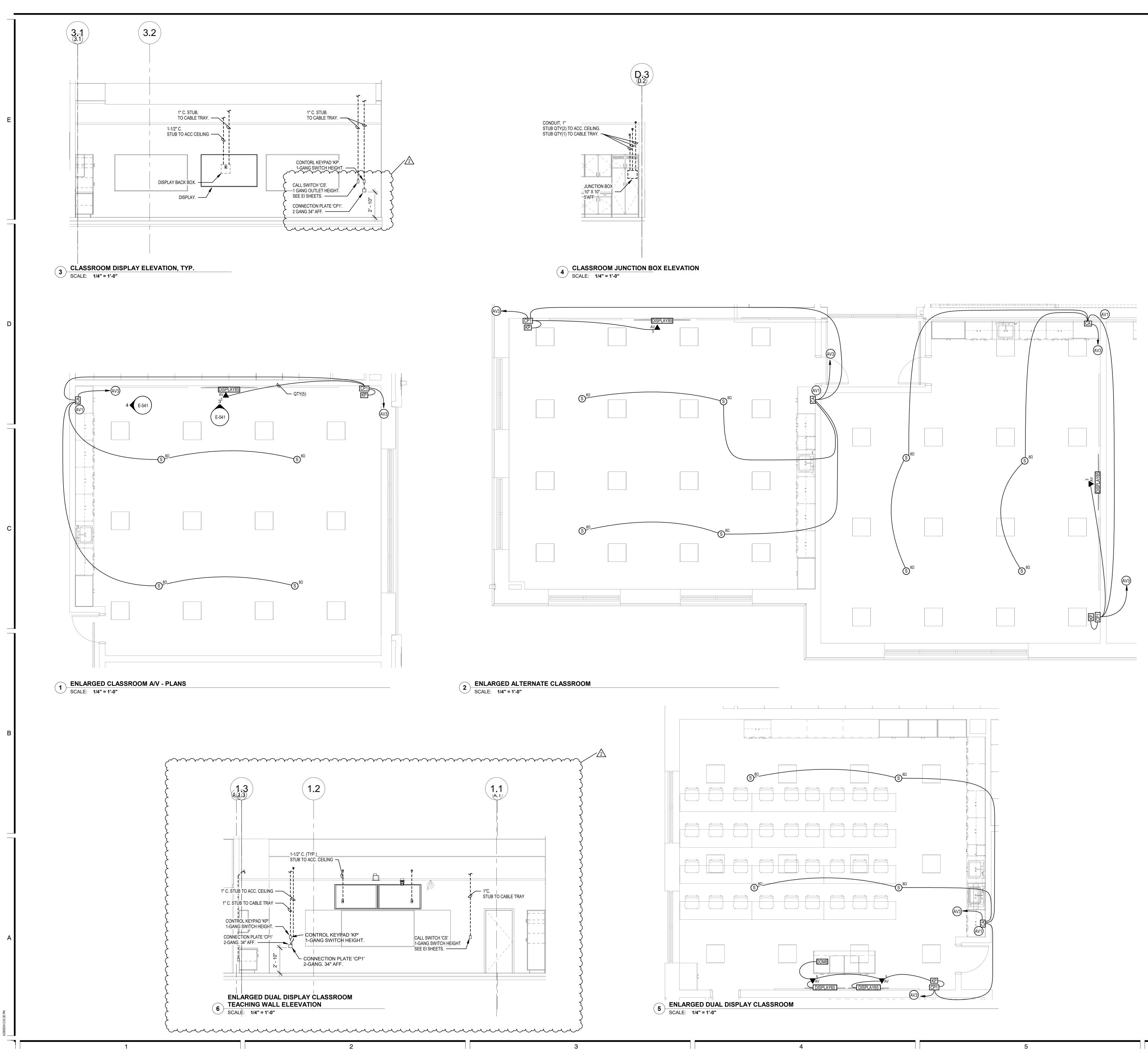


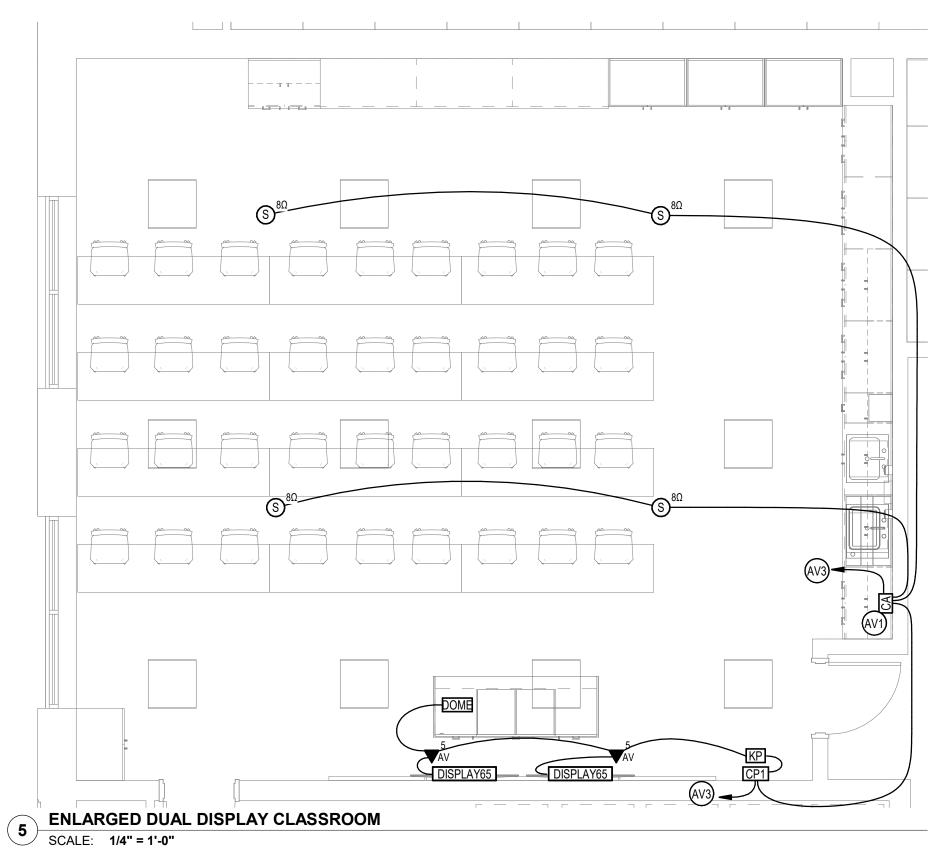
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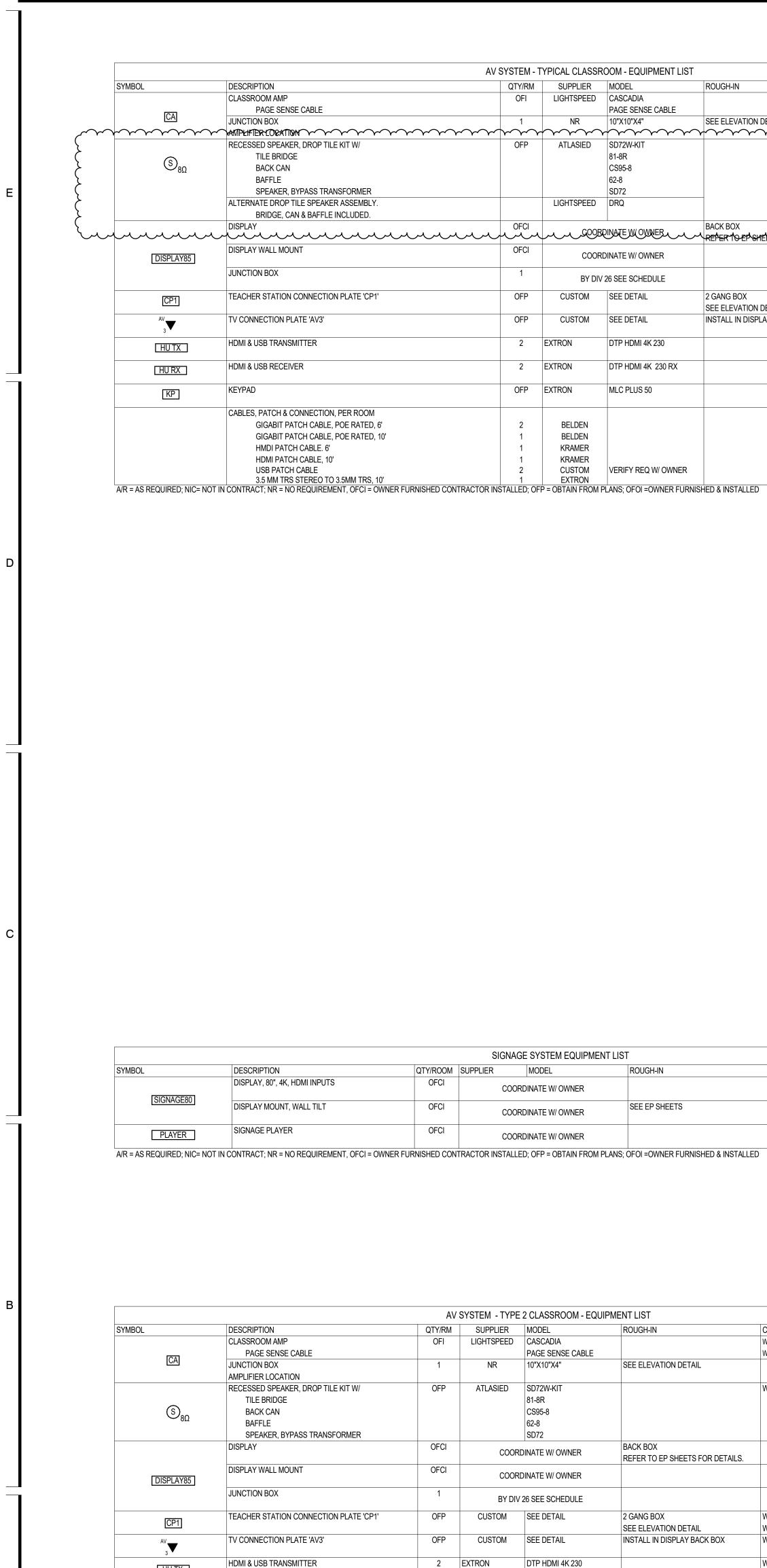






AUE	DIO VISUAL GENERAL NOTES:
	NO CHANGES SHALL BE MADE WITHOUT TH

<u>AU</u> 1. 2. 3. 4.	DIO VISUAL GENERAL NOTES: NO CHANGES SHALL BE MADE WITHOUT THE AV CONSULTANT'S WRITTEN CONSENT. TO MINIMIZE SIGNAL CROSS TALK, GROUP CABLES ACCORDING TO SIGNALS BEING CARRIED. MAINTAIN SEPARATION BETWEEN POWER AND ALL OTHER CABLE GROUPS OF AT LEAST 24", AND 6" BETWEEN ALL OTHER CABLE GROUPS WHEN RUN IN PARALLEL. GROUPS SHALL BE: A. POWER. B. CONTROL. C. VIDEO. D. MIC LEVEL AUDIO CABLES (LESS THAN -20dBM). E. LINE LEVEL AUDIO CABLES (+20dBM TO +20dBM). F. SPEAKER LEVEL CABLES (+20dBM OR GREATER). G. DATA CABLES. PROVIDE #6 AWG THHN WIRE W/ GREEN INSULATION FROM EACH AV EQUIPMENT CABINET TO THE NEAREST MAIN BUILDING GROUND. CONNECT GROUNDING WIRE TO BARE METAL ON EQUIPMENT CABINET. COLORS OF ALL SOUND DEVICES THAT ARE EXPOSED, INCLUDING INPUT AND OUTPUT PLATES, VOLUME CONTROLS, SWITCHES, SPEAKERS, SPEAKER ENCLOSURES, SPEAKER MOUNTING HARDWARE, ETC. SHALL BE REVIEWED AND APPROVED BY OWNER PRIOR TO ORDERING. CABLE ROUTES SHOWN ON DRAWINGS DO NOT ACTUALLY REFLECT THE	design west architects	SALTI
 6. 7. 8. 9. 10. 11. 12. 13. 	 RACEWAYS. THE RACEWAYS SHALL BE DETERMINED IN THE FIELD. LABEL ALL THE WIRELESS HANDHELD MICROPHONES AND BELT PACKS WITH NAMES OR NUMBERS FOR EASY IDENTIFICATION. REFER TO RISER DIAGRAMS AND EQUIPMENT LISTS FOR THE TYPES AND NUMBERS OF WIRES REQUIRED FOR EACH AV DEVICE. SETUP COMPRESSORS AND LIMITERS IN ALL OF THE DSPS TO PROTECT THE AMPLIFIERS AND SPEAKERS. ALSO, SETUP A PASSWORD ON THE DSPS, TO CONTROL THE ACCESS TO THEM. COORDINATE W. OWNER TO DETERMINE APPROPRIATE PASSWORDS. MOCKUP A TYPICAL CLASSROOM AV SYSTEM FIRST, TEST AND TRY OUT ALL THE FUNCTIONS OF THE SYSTEM AND PERFORMANCE OF EACH AV COMPONENT BEFORE PURCHASING EVERYTHING FOR ALL THE CLASSROOMS. EQUALIZE ALL AUDIO SYSTEMS WITH DSP PRIOR TO SYSTEM COMMISSIONING. AUDIO INPUT AND OUTPUT LEVELS SHALL BE BALANCED. EQUALIZERS SHALL BE SET TO THE FOLLOWING PARAMETERS AS MEASURED IN 1/3 OCTAVE BANDS FROM 10HZ TO 2 KHZ. A. FLAT WITHIN PLUS OR MINUS 2 DBA, FROM 71HZ TO 17KHZ. B. SLOPE DOWN ALONG AN APPROXIMATED 3 DBA PER OCTAVE SLOPE FROM 0 TO 71HZ AND 17KHZ AND UP. USE SEPARATE CHANNEL FOR EACH ASSISTIVE LISTENING SYSTEM 'ALS' IN THE FACILITY. PROGRAM ALL RECEIVERS, REGARDLESS OF WHICH 'ALS' THEY ARE ASSOCIATED WITH SO THAT USERS' MAY SELECT ANY OF THE AVAILABLE CHANNELS. ALL CABLES IN PLENUM SPACES SHALL BE PLENUM RATED. WHEN NON- PLENUM CABLE IS SPECIFIED, IN PLENUM SPACES, INTEGRATOR SHALL SUBSTITUTE PLENUM CABLE. 		240 E. MORRIS AVE. SUITE 200 SALT LAKE CITY, UT 84115 P (801) 534-1130 F (801) 534-1080 www.envisioneng.com
AV1 AV3	INSTALL JUNCTION BOX, 10" X 10" IN WALL BEHIND CABINET, AT 18" AFF. UNLESS OTHERWISE NOTED, PROVIDE QTY. (3) 1" C. TO ACC. CEILING. TO DATA RACK IN NEAREST MDF/IDF CLOSET.	NIBLEY MIDDLE SCHOOL	3050 S 920 W NIBLEY, UTAH CACHE COUNTY SCHOOL DISTRICT
	CONSTRUCTION DOCUMENTS	Indiana and a securition: Indiana and a securit	ed plans - -



HDMI & USB TRANSMITTER HU TX HDMI & USB RECEIVER HU RX KEYPAD & CONTROLLER KP

1

2 EXTRON 2 EXTRON DTP HDMI 4K 230 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 CUSTOM VERIFY REQ W/ OWNER 2 3.5 MM TRS STEREO TO 3.5MM TRS, 10' EXTRON 1 EXTRON MLC PLUS 50 A/R = AS REQUIRED; NIC= NOT IN CONTRACT; NR = NO REQUIREMENT; OFCI = OWNER FURNISHED CONTRACTOR INSTALLED; OFP = OBTAIN FROM PLANS; OFOI = OWNER FURNISHED &

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

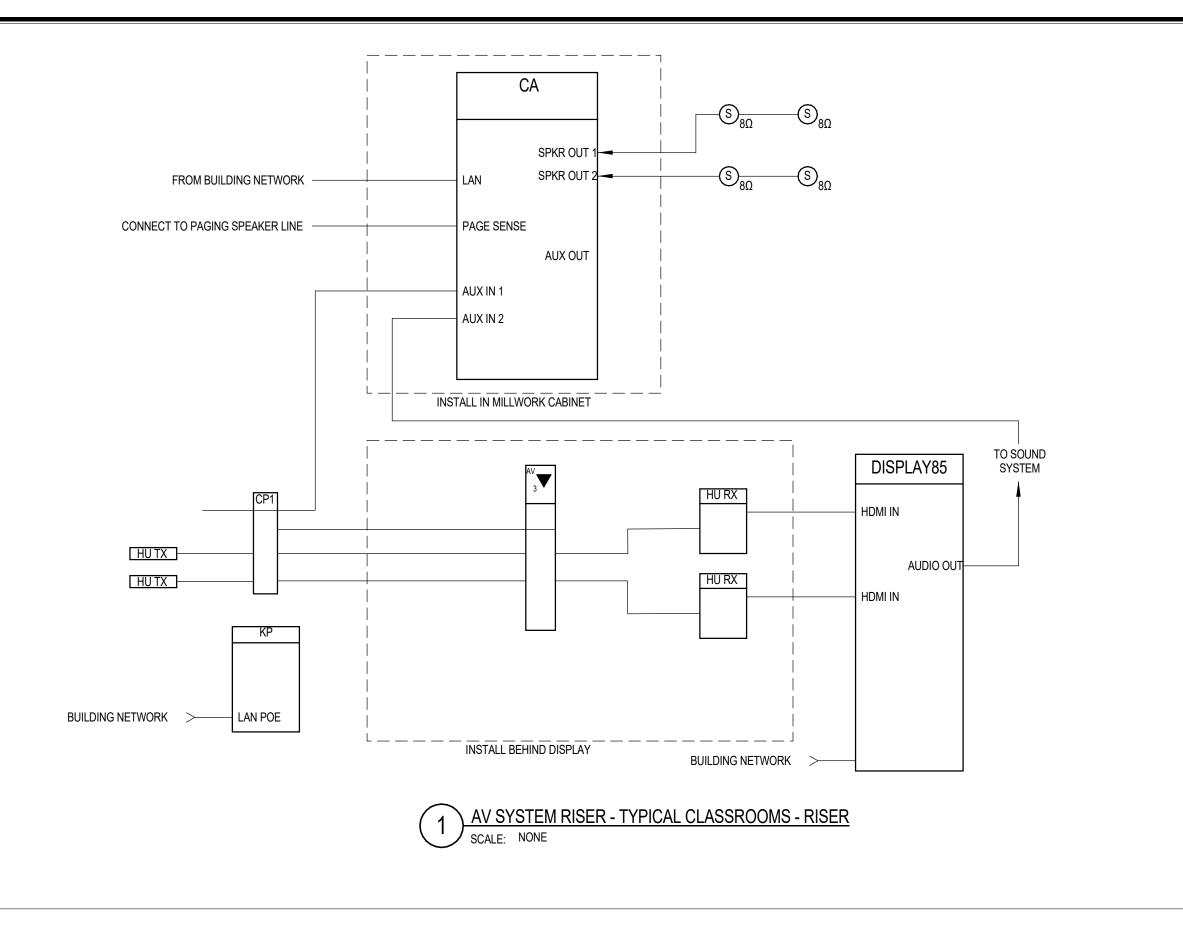
IENT LIST	
ROUGH-IN	CABLE
	WEST PENN 454
	WEST PENN 254346 - YELLOW
SEE ELEVATION DETAIL	
	WEST PENN 25225B
BACK BOX	
REFER TO EP SHEETS FOR DETAILS.	
2 GANG BOX	WEST PENN 254346
SEE ELEVATION DETAIL	WEST PENN 445
INSTALL IN DISPLAY BACK BOX	WEST PENN 254346
	WEST PENN 254346
	WEST PENN 254346
1-GANG BOX	
1" C. TO ACCESSIBLE CEILING SPACE	
NS; OFOI =OWNER FURNISHED & INSTALLED	

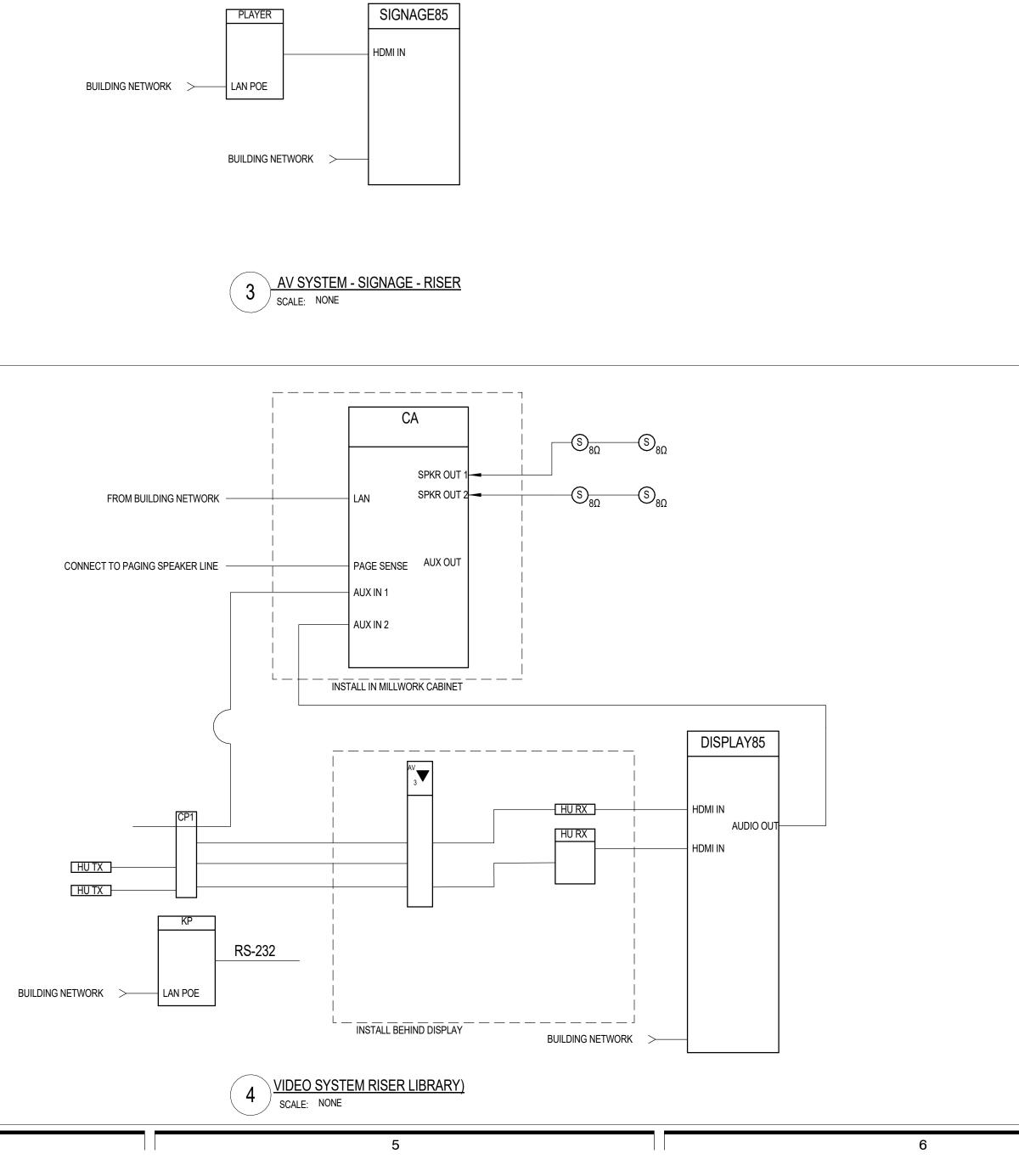
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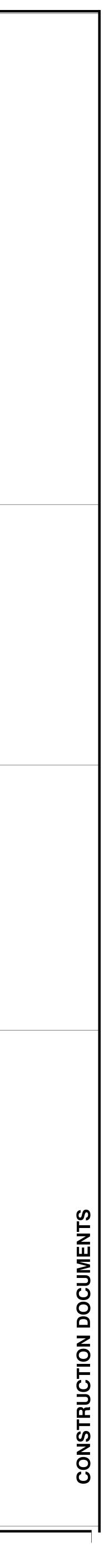
GENERAL SYSTEM NOTES:

1. CLASSROOMS HAVE 8 OHM SPEAKERS.

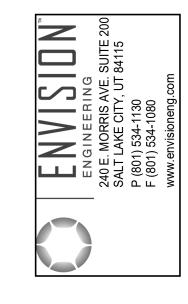
- 2. COORDINATE WITH OWNER TO DETERMINE WHICH HDBASET DATA DROP TO CONNECT HU TX & HU RX TO. RUN CABLES FOR ALL CONNECTIONS.
- 3. PROVIDE RS-232 CONTROL OF CEILING MOUNTED DOCUMENT CAMERA & ETHERNET CONTROL OF DISPLAY TO PROVIDE ON/OFF, AND SOURCE SELECTION.

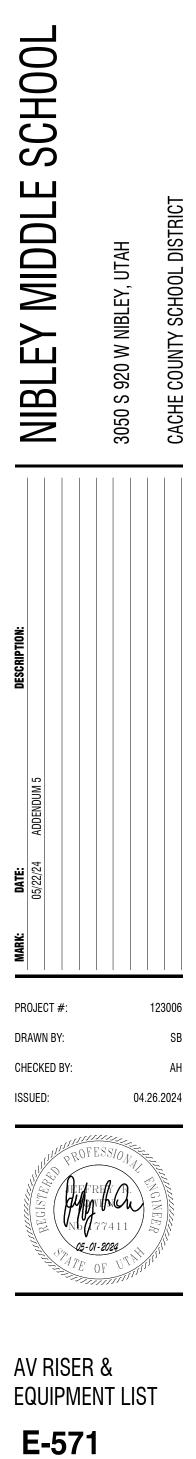






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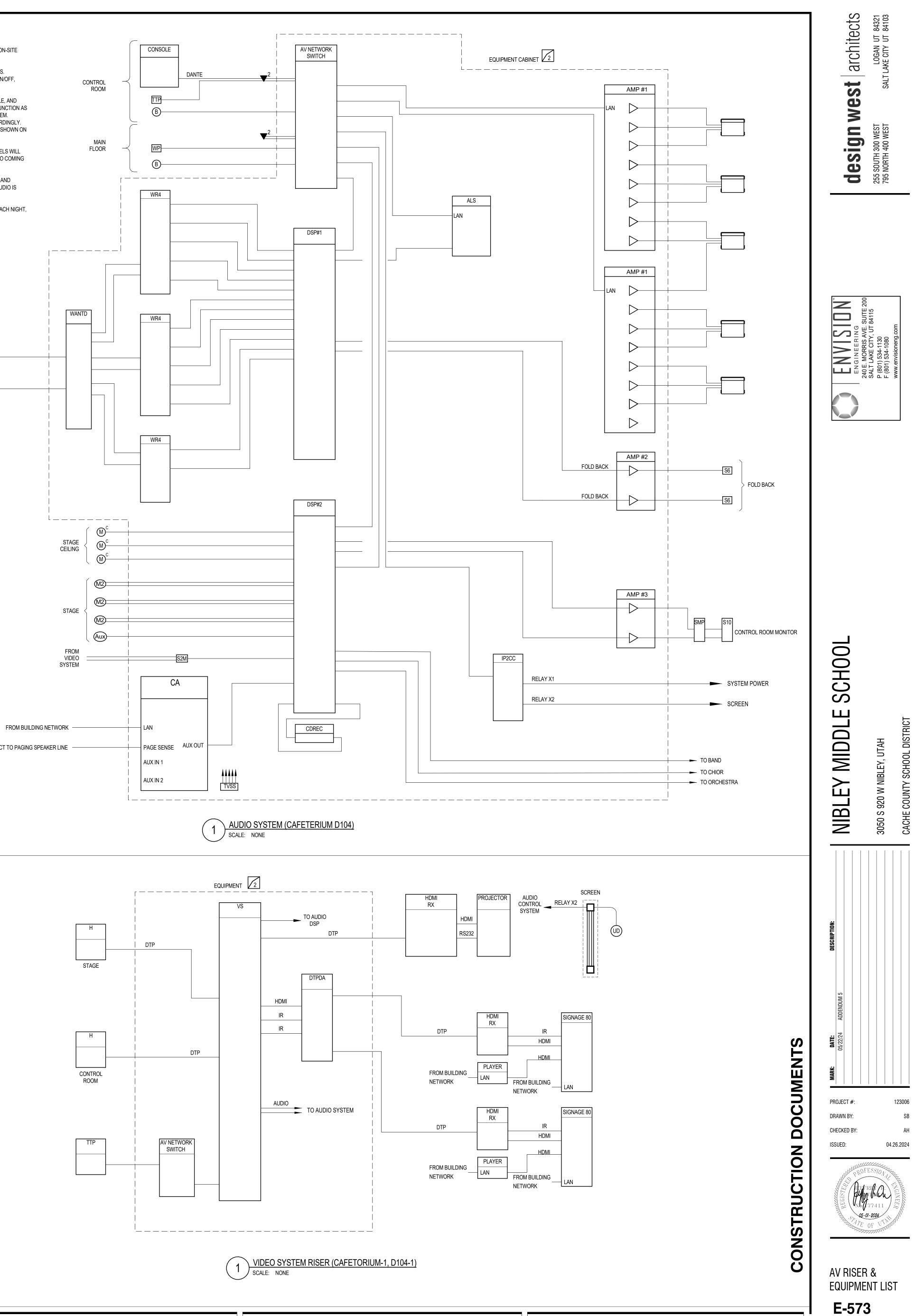
			AUDIO SYSTEM -	CAFETORIUM - EQUIP	PMENT LIST	
SYMBOL	DESCRIPTION	QTY/ROOM	1 SUPPLIER	MODEL	ROUGH-IN	CABLE
	EQUIPMENT RACK, 46RU, 28" D. X 23.5" W.	1	MIDDLE ATLANTIC	SR-46-28	12X12X6" BACK BOX IN WALL	
	FRONT DOOR	1		PFD-46		
2	VERTICAL POWER STRIP	1		PD-2420SC-NS	SEE DETAIL	
	RACK MOUNT DRAWER	1		UD3		
	VERTICAL CABLE LACING STRIP	4		LACE-44-OWP		
	HORIZONTAL LACING BAR	A/R		LBP-2A		
			-			-
TVSS	POWER CONDITIONER	A/R	FURMAN	CN-2400S	INSTALL IN RACK	
	MIGBOPHONEJUPUIDUAL AN AN AN AN AN		PBQ-CQL ~~~~	WB10131 ~ ~ ~	I JAANG 23" DEEP	WEST PEDIN 452 on on on on on on
					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 NC3
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		
	HANDHELD MIC	2	SHURE	ULXD2/SM58	STORE EQUIPMENT IN RACK.	
	BODY PACK TRANSMITTER & MIC	10	SHURE	ULXD1/MX153		
	TABLE TOP MICROPHONE CHARGER	6	SHURE	SBC220		
	TABLE TOP BATTERY CHARGER	1	SHURE	SBC800		
	SPARE BATTERIES	8	SHURE	SB900B		
	REMOTE ANTENNA MOUNTING KIT	2	SHURE	UA505		
DSP	DSP, AUDIO W/ REQUIRED UCI, SCRIPTING, AND DANTE LICENSES	A/R	Q-SYS	CORE 110F V2		WEST PENN 254246 WEST PENN 454
AV NETWORK		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						
AMP#3	AMP #3	1	CROWN	DCI 2/300		WEST PENN 227
S6	FOLD BACK SPEAKER	2	COMMUNITY	I2-W8	1-GANG 3" DEEP BOX	WEST PENN 227
30	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
500	PANEL MOUNT 4 POLE SPEAKON	1	NEUTRIK	NL4	1" C THROUGHOUT	
S10	MONITOR SPEAKER	1	EV	SX100+WE		
	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					3/4" C. THROUGHOUT	
Aux	AUX INPUT	OFP	RDL		1-GANG 3" DEEP BOX	WEST PENN 25291B
	LINE ARRAY SPEAKER	5	Q-SYS	WL3082	3/4" C. THROUGHOUT DEEP 1-GANG BOX	WEST PENN 25210
	CABLE CONNECTOR	A/R	NEUTRIK	NL8FC		
1						
	ARRAY FRAME	1	Q-SYS	AF3082-S		
	PULL BACK BAR	1	Q-SYS	PB3082		
S6	CLASSROOM AMPLIFIER	OFCI	LIGHTSPEED	CASCADIA	INSTALL IN RACK	WEST PENN 454

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		
	HDMI INPUT, WALL	A/R	EXTRON	DTP T HWP 4K 331 D	1-GANG 3" DEEP	WEST PENN 254246F
Н					(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
				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		
	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

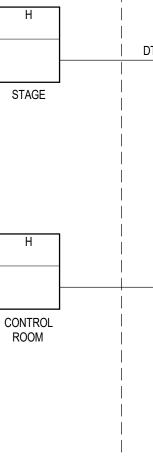
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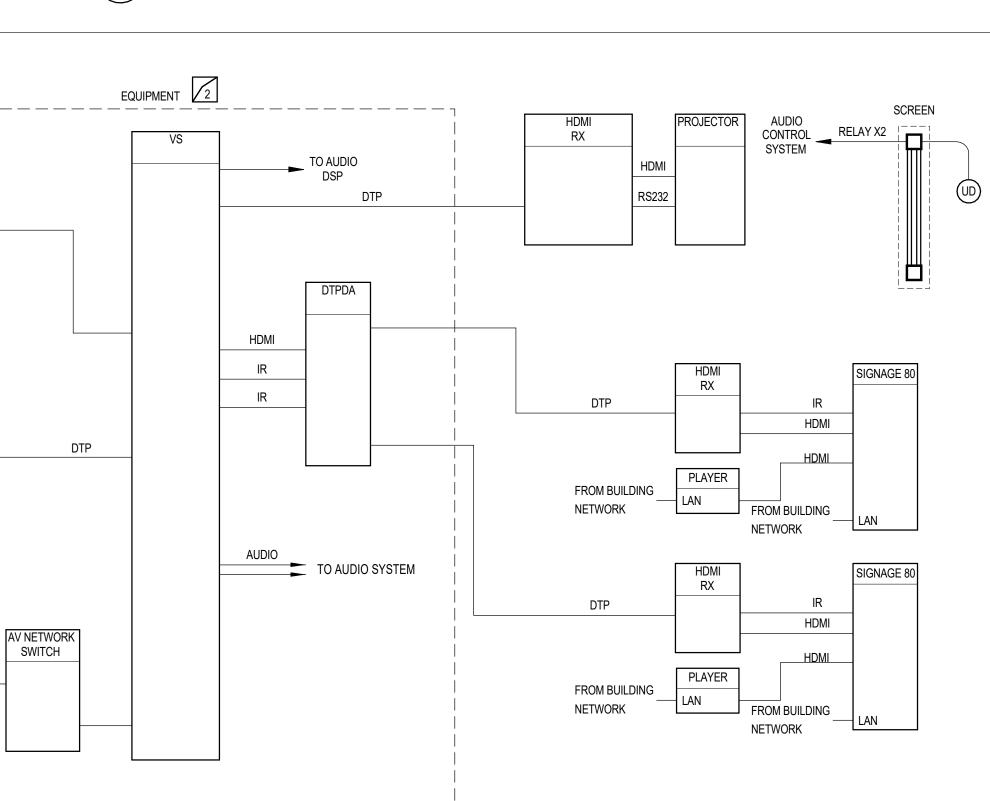
- 1. THE SPEAKER COVERAGE SETTINGS SHALL BE OPTIMIZED ON-SITE DURING THE INSTALLATION.
- 2. PROGRAM THE TOUCH PANEL TO CONTROL AUDIO VOLUMES. AUDIO/VIDEO SOURCE SELECTIONS, PROJECTOR POWER ON/OFF, PROJECTION SCREEN UP/DOWN.
- 3. PROGRAM THE DIGITAL PROCESSORS, THE MIXING CONSOLE, AND AUTOMANUAL SWITCH 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.

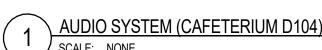


CONNECT TO PAGING SPEAKER LINE









			AV SYSTEM	- GYM - EQUIPMENT LIST		
IBOL	DESCRIPTION	QTY	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		
$\overline{3}$	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		
	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		 RICAN-TIME.COM/GET-QUOTE-GUARD-BUILDER	
		2	OR EQUAL		\\\GAN+TIME.GOM/GET-QUUTE-GUARD-BUILDEK 	
	DIGITAL SIGNAL PROCESSOR, W/	1	Q-SYS	CORE 110F V2		WEST PENN 25225
	UCI. SCRIPTING AND DANTE LICENSES	A/R	4-010	JOINE HIVE VZ		WEST PENN 23225
DSP	AUDIO IO EXPANSION					
		A/R		QIO-ML4I, QIO-LO4, QIO-ML2X2		WEST PENN 254346
\sim		-A/R			\sim	$\qquad \qquad $
	~ KELAY CONTOL MODULE ~ ~ ~ ~ ~ ~ ~ ~	A/R	GLOBAL CACHE	ITACH IP2CC		
TVSS	POWER CONDITIONER & SEQUENCER	1	FURMAN	CN-2400S	INSTALL IN RACK	
	AMPHRER KOLARKELAN AN AN AN AN	~ ~ ~		Anoudinal at at at a	MARTALLIMARACK	hit other high and
AMP#1						
	PORTABLE EQUIPMENT				PROVIDE TO OWNER. AND STORE IN RACK	
	MIC STAND	2	ATLAS IED	MS-203		
	MIC STAND BOOM	2	ATLAS IED	PB21XEB		
	HANDHELD MIC. WIRED	2	SHURE	BETA 58A	DRAWER	
					DRAWER	
	MICROPHONE CORD, 25'	2				
		2	AUDIO TECHNICA	A 103 14-00		
	WALL PLATE, TOUCH SCREEN CONTROLLER	OFP		T00 70 00	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		
J	FRMT A RECEIVER, IN RACK	1	RDL	TX-TPR2A		
	1-GANG WIRE COVER	1	NR	NR		
	SPEAKER, MAIN FLOOR	OFP	COMMUNITY	R-35COAX	1-GANG BOX	WEST PENN 25225B
O	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	
ALS	ASSISTIVE LISTNING SYSTEM, 2 CH	1	LISTEN	LW-100P-02		
	RECEIVERS	4		LWR-1020		
S2M	STEREO TO MONO	A/R	EDCOR	S2M		
AV SWITCH	AV SWTICH, 30 PORT, POE+, 300w	1	NEI GEAR AVLINE	GSM4230P (OR EQUAL)		GIGABIT PATCH CABLES, LEN AS REQUIRED
	MICROPHONE & AUX INPUT PLATE	OFP	RDL	D-J3M	1 GANG BOX	WEST PENN 454
MA					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
	PANEL MOUNT XLR JACK					
	R 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
			JEE DETAIL			
	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						
	ZONE MODULE	1	LIGHTSPEED	CASCADIA		
CA						

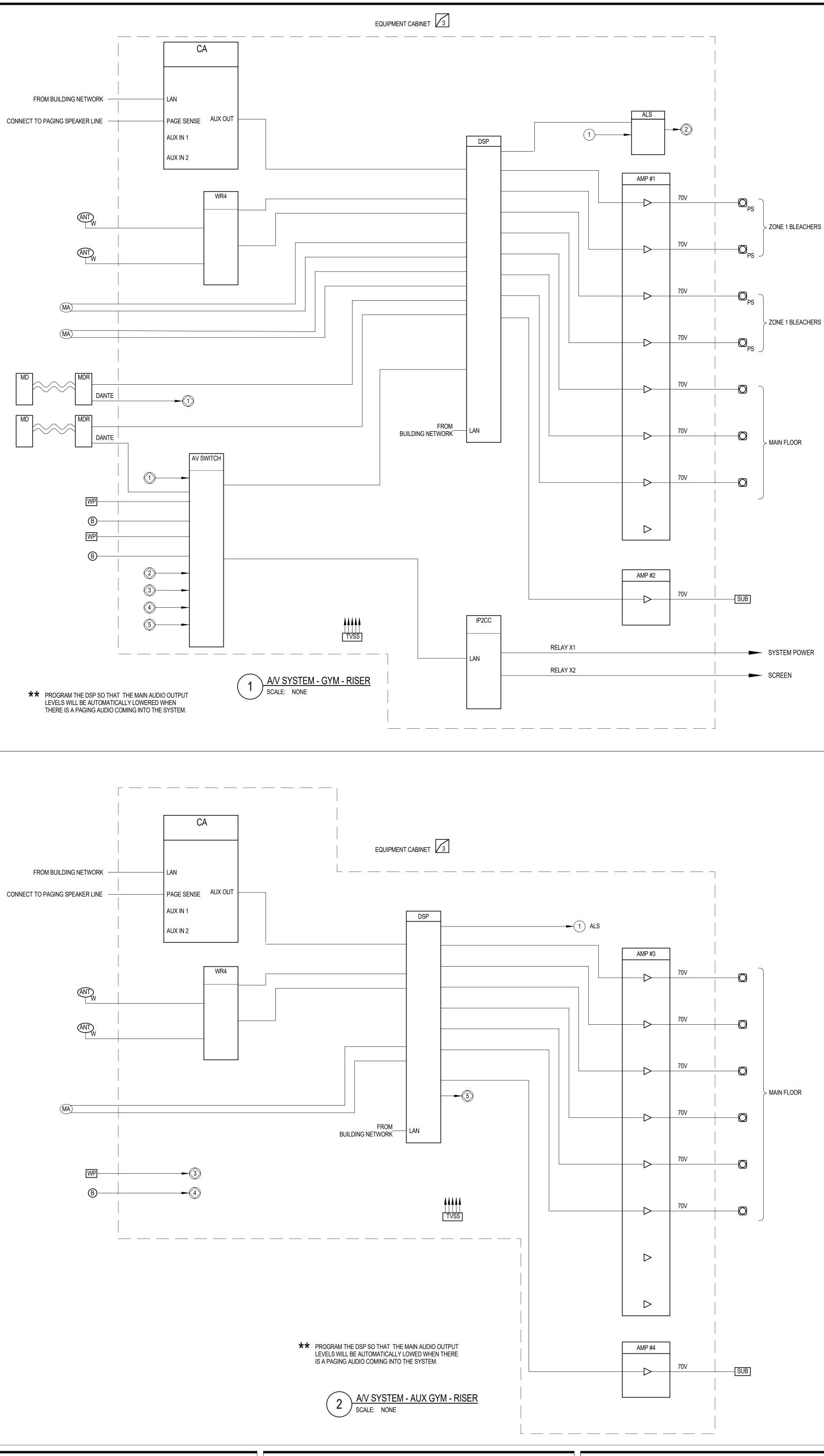
			AV SYSTEM	- GYM SCREEN - EQUIF	PMENT LIST		
SYMBOL	DESCRIPTION	QTY/ROOM	SUPPLIER	MODEL	ROUGH-IN	CABLE	
	PROJECTOR SCREEN, WALL MOUNT, MOTORIZED, 110V	1	DRAPER	CL510			
	216" X 121-1/2", W/						
	LOW VOLTAGE CONTROL INTERFACE	1		LVC-IV			
	ROCKER AND KEY SWITCH	1		KS1/SS-1R			

MBOL	DESCRIPTION	QTY	SUPPLIER	MODEL	RC
	EQUIPMENT RACK, 46RU, 28" D. X 23.5" W.		1	SPECIFIED AS PART OF G	
3				SPECIFIED AS PART OF C	5111/010
	WIRELESS MICROPHONE SYSTEM				QT
	RECEVIER, 4CH	1	SHURE	ULXD4QGV=-G50	3/4
WR4	1/2 WAVE ANTENNA	2	INCLUDED		INS
	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	CUSTOM - HTTPS://WWW.A	MERICA
			OR EQUAL		
DSP	DIGITAL SIGNAL PROCESSOR, W/	1	Q-SYS	CORE 110F V2	
DOF	UCI, SCRIPTING AND DANTE LICENSES	A/R			
	AUDIO IO EXPANSION	A/R		QIO-ML4I, QIO-LO4, QIO-ML	2X2
	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	05
	WALL PLATE, TOUCH SCREEN CONTROLLER	OFP	0.01/0	T00 70 00	SE
WP	WALL PLATE	1/PLATE	Q-SYS	TSC-70-G3	
	BACK BOX, AND COVER	1/PLATE	FSR	WB-PSTSC-70-G3	05
•	BLUETOOTH CONNECTION PLATE	OFP		D DT(A	SE
B	BLUETOOTH, FRMT A		RDL	D-BT1A	
			RDL	TX-TPR2A	
	1-GANG WIRE COVER	1	NR	NR	1.0
O	SPEAKER, MAIN FLOOR	OFP	COMMUNITY	R-35COAX	1-0
	SURFACED, WHITE, 200W EACH SPEAKER, SUB	OFP OFP	CUSTOM COMMUNITY	FLYING HARDWARE	3/4
SUB	SPEAKER, SUD	UFF	COMMUNITY	130-11300	
AMP#4	AMPLIFER, 70V, FOR SUB	1	BIAMP	ALC-404D	INS
ALS ASISTIVE LISTNING SYSTEM, 2 CH			1	SPECIFIED AS PART OF G	GYM SYS
	RECEIVERS		EDCOR		
S2M	STEREO TO MONO	A/R	EDGOK	S2M	
AV SWITCH	AV SWTICH, 30 PORT, POE+, 300w	0501		SPECIFIED AS PART OF G	GYM SYS
ZONE MODULE	ZONE MODULE	OFCI	LIGHTSPEED	CASCADIA	

1

S; OFOI =	OWNER FURNISHED & INSTALLED	

1	ST	
	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	
1 :	SYSTEM	
1 :	SYSTEM	
15	; OFOI =OWNER FURNISHED & INSTALLED	



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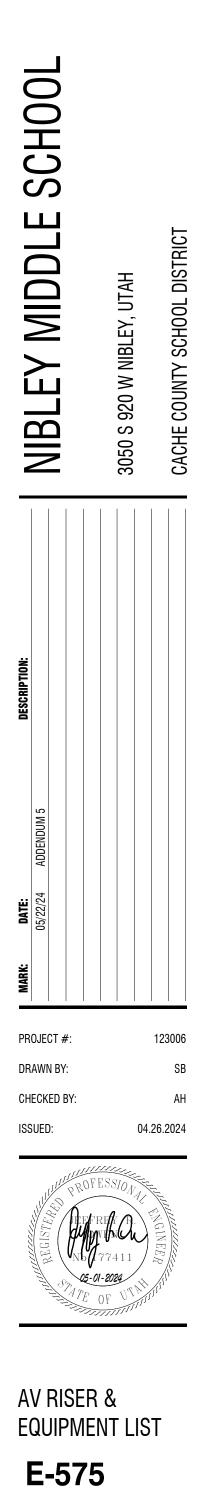
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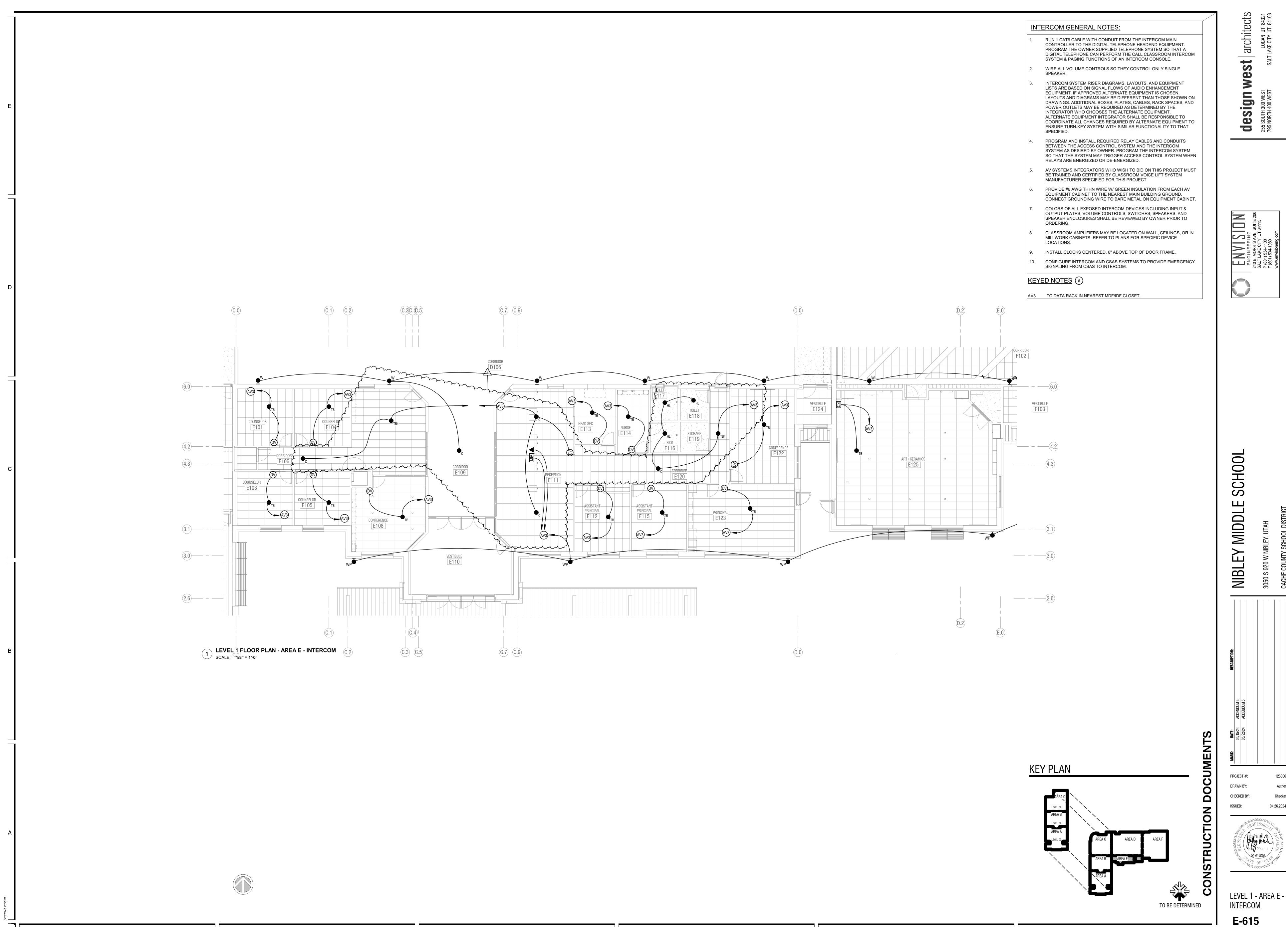
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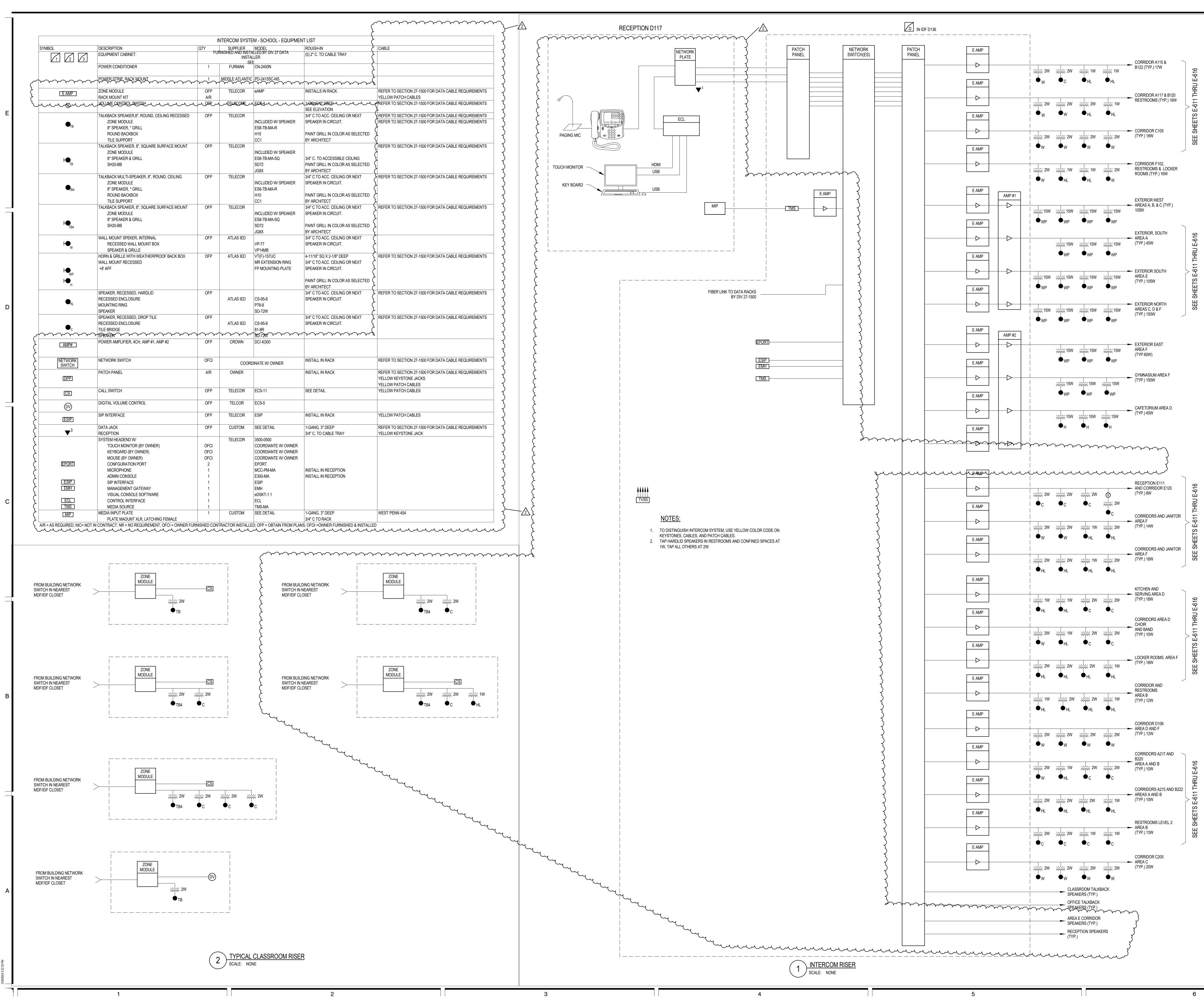
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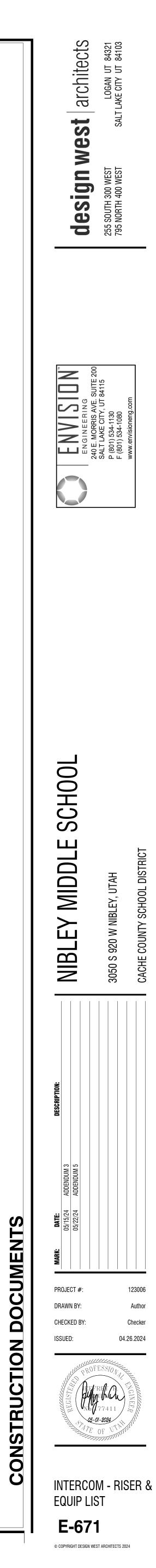












SECTION 07 5400 THERMOPLASTIC (KEE) MEMBRANE ROOFING - BASE BID

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	ASTM D1149	No effect	
Solar Reflectance Index (SRI)	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.

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. Deck sheathing.
- E. 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. 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. Visible Light Transmittance (VLT): 32% to 64% percent, nominal.
- 5. Solar Heat Gain Coefficient (SHGC): 0.19 to 0.27, nominal.
- 6. Visible Light Reflectance, Outside: 64 percent, nominal.
- 7. Glazing Method: Dry glazing method, gasket glazing.
- 8. 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.
- 9. Spacer Color: Black.
- 10. Edge Seal:
- 11. Color: Black.
- 12. Purge interpane space with dry air, hermetically sealed.
- 13. Basis of Design Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle.
- 14. 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.
- 15. Inboard Lite: Heat-strengthened float glass, 1/4 inch thick.
- 16. Other Manufacturers: Provide either the product identified as "Basis of Design" or an equivalent product of another acceptable manufacturer.
- 17. 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.

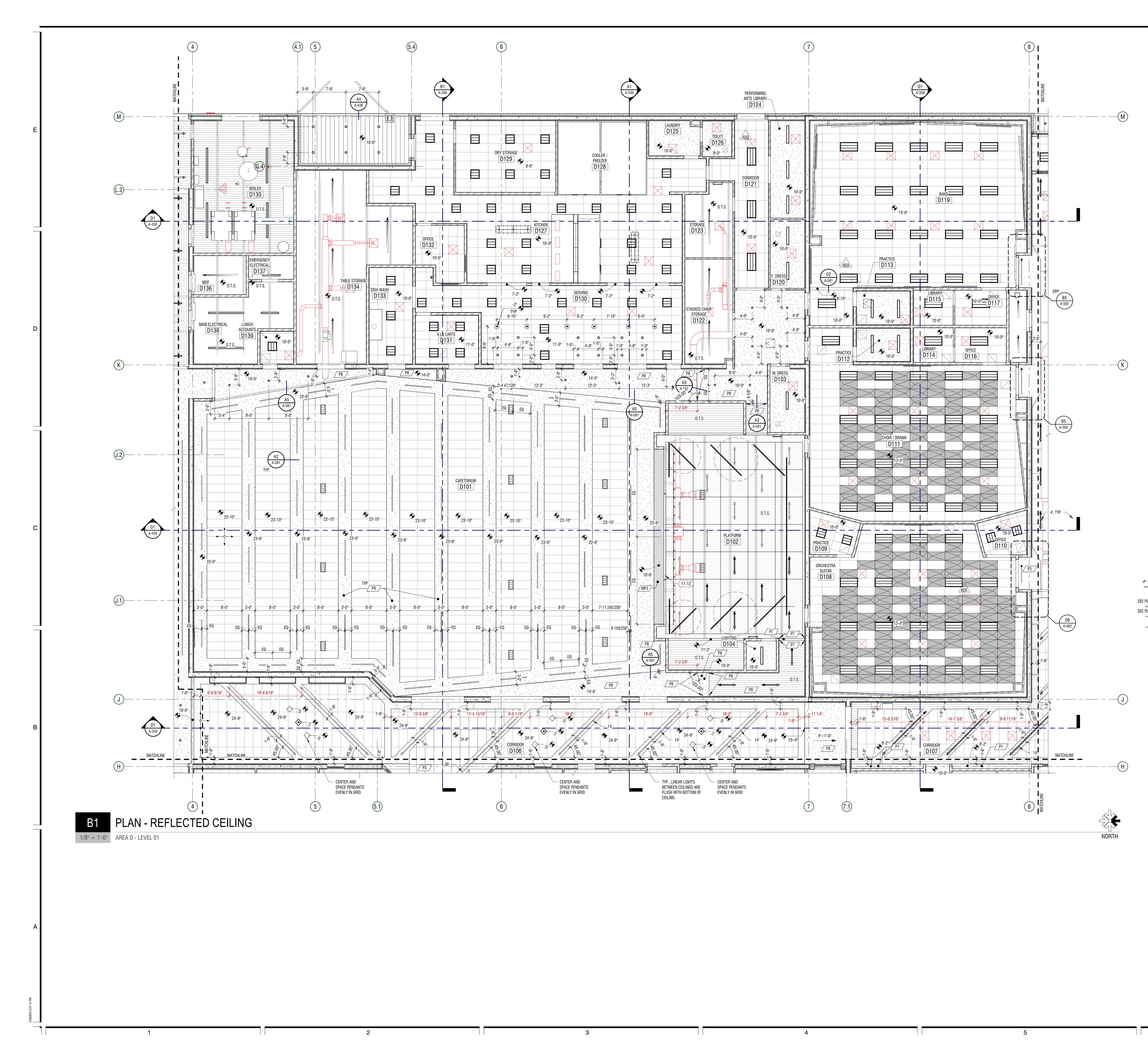
3.03 FINISH AND TEXTURE

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

3.04 INSTALLATION OF TRIM AND ACCESSORIES

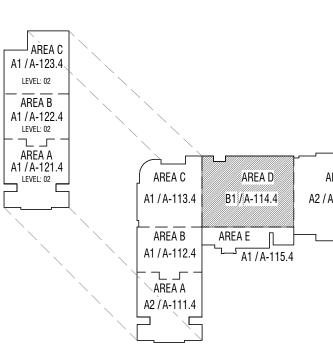
- A. Control Joints: Place control joints consistent with lines of building spaces and as indicated.
 - 1. Not more than 30 feet apart on walls and ceilings over 50 feet long.
 - 2. At exterior soffits, not more than 30 feet apart in both directions.
- B. Corner Beads: Install at external corners, using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

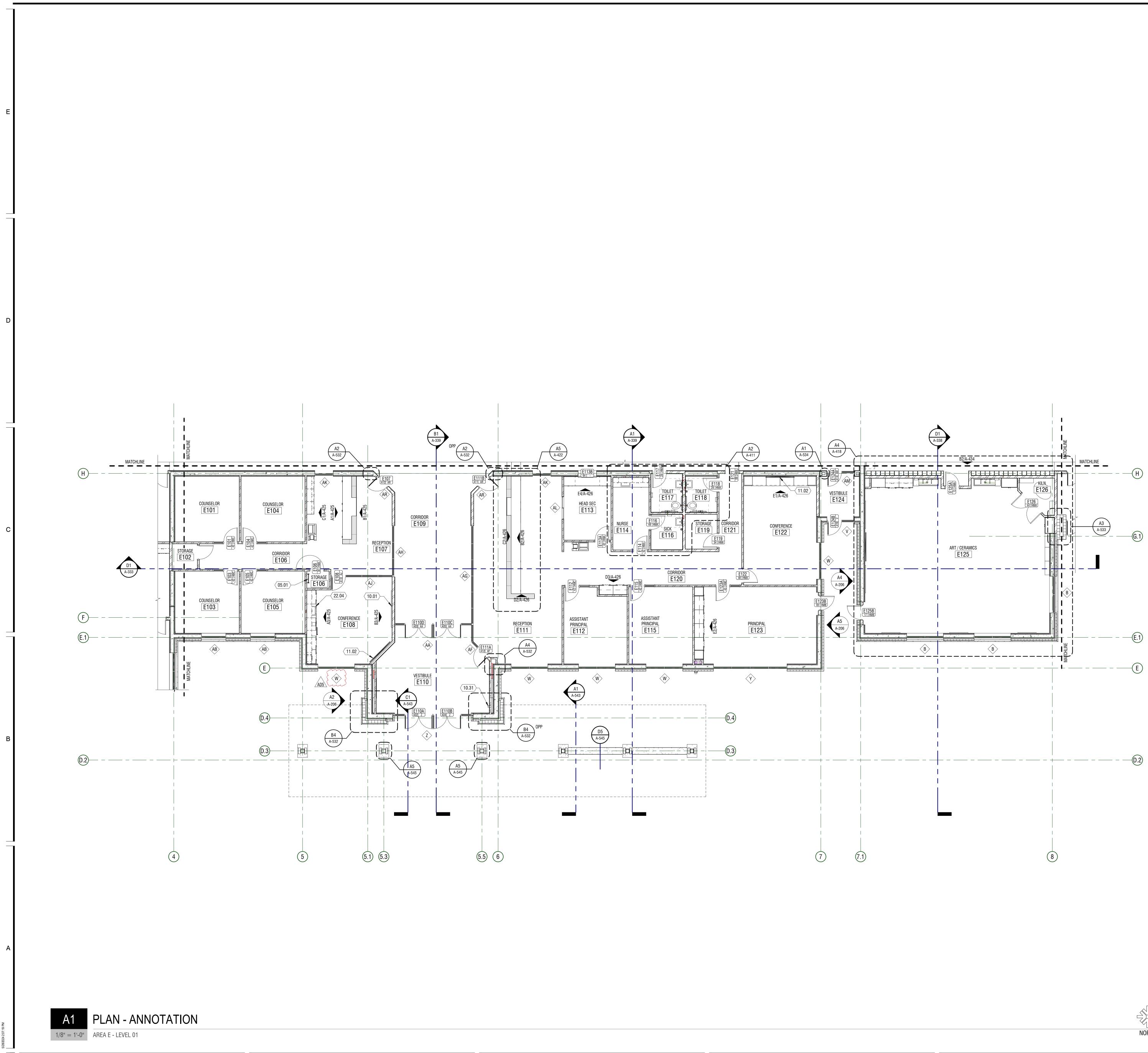
END OF SECTION 09 2116



GENER	AL NOTES		architects	N UT 84321 / UT 84103
	THE FIRST TWO NUMBERS REPRESENT THE RELATED CSI MASTER FORMAT DIVISION. T OF NUMBERS REPRESENTS AN IDENTIFYING MARK VALUE. NOT ALL VALUES MAY BE N THE DOCUMENT SET.		arch	LOGAN SALT LAKE CITY
KEYNOTES LISTE LIST WILL DIFFE	KEYNOTES RETAIN THEIR ASSIGNED VALUE UNIVERSALLY THROUGHOUT THE SET. THE ED BELOW, REPRESENT THE KEYNOTES FOUND AND UTILIZED ON THIS SHEET AND EACH R RESPECTIVE TO ITS' SHEET. THEREFORE, BASED ON ACTUAL KEYNOTES UTILIZED ON A DRAWINGS, GAPS IN THE SEQUENCING WILL OCCUR.		est	SAL
2. CONTRACTOR SI NOTIFY ARCHITE	HALL COORDINATE LAY-OUT OF STRUCTURAL, MECHANICAL, SPRINKLER AND ELECTRICAL. ICT OF ANY CONFLICTS.		n we	VEST NEST
TO/FROM FACE (TO FACE OF FINI APPROVAL OF TI	IMENSIONS ARE TO/FROM FACE OF STUD / MASONRY. ALL EXTERIOR DIMENSIONS ARE DF GRID/FOUNDATION. DIMENSIONS MARKED 'CLEAR' OR 'CLR' ARE FROM FACE OF FINISH SH AND SHALL BE MAINTAINED AND CANNOT BE FIELD ADJUSTED WITHOUT PRIOR HE ARCHITECT. ND FOR FINISH LEGEND		lesig	5 SOUTH 300 WEST 5 NORTH 400 WEST
5. CEILING HEIGHT	IS B.O. FINISHED CEILING HEIGHT ABOVE FINISHED FLOOR S SPECIFYING "EQ" = EQUAL LENGTH OR WIDTH TO FILL REMAINDER OF LENGTH REQUIRED		D	255 795
7. CEILINGS WITH I OF ROOM	NO DIRECT MEASUREMENTS, ASSUME CEILING TO BE EQUALLY DISTANCED ON ALL SIDES			
9. LIGHT FIXTURES	EN TO STRUCTURE AREAS ARE DIMENSIONED FROM WALL <u>OR</u> CENTERLINE OF ROOM WITH NO DIMENSIONS ARE TO BE CENTERED ON ROOM UNLESS OTHERWISE NOTED			
11. FIXTURES ON GF	N A.C.T. TO BE CENTERED IN GRID UNLESS OTHERWISE NOTED RID SHALL BE IN LINE WITH GRID CENTER ON CENTER UNLESS OTHERWISE NOTED			
ELECTRICAL ANI	S PER FINISH PLANS, COORDINATE MANUAL AND POWER LOCATIONS WITH THE D FINISH PLANS. HEADS, MOTION DETECTORS, LIGHT SENSORS, ETC. ARE TO BE CENTERED IN THE PANEL.			
15. OPEN TO STRUC MECHANICAL, PI PROVIDED A CLE	1 SHEETS SERIES A-800 INDICATED WITH: Constant TURE CEILINGS TO HAVE GYPSUM AT WALLS EXTEND UP INTO FLUTES OF DECK, ANY LUMBING OR STRUCTURAL PENETRATIONS THROUGH WALLS SHALL BE ENCLOSED, EAN FINISH TIGHT AROUND FIXTURES, BEAMS, PIPES, DUCTS, ETC.			
KEYNO	IES			
MARK 11.12	DESCRIPTION WALL MOUNTED MOTERIZED PROJECTION SCREEN			
LEGEN	D			
MATERIALS				
	4'-0" x 4'-0" SUSPENDED ACOUSTICAL LAY-IN CEILING SYSTEM			
	PAINTED GYPSUM BOARD CEILINGS TYPICAL, U.N.O. EXPOSED STRUCTURE TO			
	RECIEVE 1-HR CEMENTITIOUS SPRAY 8'-0" x 4'-0" PAINTED TO MATCH DECK			
	ACOUSTIC TECTUM PANEL ATTACHED TO DECK (NO EXPOSED FASTENERS) PREFINISHED METAL SOFFIT			
			JC	
SYMBOLS	2'x2' / 2'x4' TROFFERS		SCHOOL	
0	RECESSED FIXTURE		SC	
SEE PLAN	SUSPENDED HIGHBAY FIXTURE)LE	RICT
	SUSPENED LINEAR FIXTURES		NIBLEY MIDDLE	3050 S 920 W NIBLEY, UTAH CACHE COUNTY SCHOOL DISTRICT
	SURFACE MOUNTED LINEAR FIXTURES RECESSED LINEAR FIXTURES		∠ ≻	920 W NIBLEY, UTAH COUNTY SCHOOL DIS
	⇒ 8' LINEAR WALL SCONCE		3LE	S 920 W
	SQUARE LED LIGHTS		II	3050 (
	2x4 CEILING SOUND DIFFUSER PANEL			
) , , ,	ADJUSTABLE TRACK LIGHTING / DECORATIVE PENDANT LIGHTS			
	MOUNTED LAY IN LIGHT FIXTURE		DESCRIPTION:	
	AIR GRILLES/ACCESS PANELS: EXHAUST SUPPLY / FRESH			
	RETURN / RELIEF ACCESS PANEL		UM 03 UM 05	
 ↑			ADDENDUM 03 ADDENDUM 05	
•	DENOTES CENTER OF ACT TILE AND DIRECTION FOR LAYOUT	S	DATE: MAY 2024 MAY 2024	
↓ ▼		EN	MARK: AD3 AD5	
KEY PL	AN	DCUMENTS	PROJECT #:	123006
	EAC	00	DRAWN BY: Checked by:	FRANKS RIGBY
A1 / A-1 LEVEL: AREA A1 / A-1		NC	ISSUED:	05.02.2024
LEVEL: — — AREA _ A1 / A-1		CONSTRUCTION	STATE	OF UTAU
	⁰² AREA C AREA D AREA F A1 / A-113.4 B1 //A-114.4 A2 / A-116.4	RU	STEPHEN 5/2 9842	M WILLIAMS
	AREA B AREA E AI / A-112.4 AI / A-115.4	ISI	CHNSED	ARCHI
	AREA A A2 /A-111.4	S	PLAN - LE	EVEL 01 -
			AREA D - REFLECTI	ED CEILING
	6	I	A-114	
	-		© COPYRIGHT DESIGN WES	T ARCHITECTS 2024







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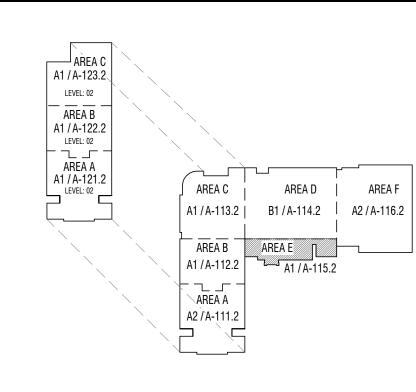
GENERAL NOTES

- 1. <u>KEYNOTES:</u> *#* THE FIRST TOW NUMBERS REPRESENT THE RELATED CSI MASTER FORMAT DIVISON. THE SECOND SET OF NUMBERS REPRESENT AN IDENTIFING MARK VALUE. NOT ALL MAY BE USED OR OCCURE IN THE DOCUMENT SET. ADDITIONALLY, KEYNOTES RETAIN THEIR ASSIGNED VALUE UNIVERSALLY THROUGHOUT THE SET. THE
- KEYNOTES LISTED BELOW, REPRESENT THE KEYNOTES FOUND AND UTLISED ON THIS SHEET AND EACH LIST WILL DIFFER RESPECTIVE TO IT'S SHEET. THEREFORE, BASED ON ACTUAL KEYNOTES UTILIZED ON A GIVEN SHEET OF DRAWINGS, GAPS IN THE SEQUENCING WILL OCCUR. 2. CONTRACTOR SHALL VERIFY LAY-OUT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL.
- 3. ALL INTERIOR DIMENSIONS ARE TO/FROM FACE OF STUD / MASONRY. ALL EXTERIOR DIMENSIONS ARE TO / FROM FACE OF GRID / FOUNDATION. DIMENSIONS MARKED 'CLEAR' OR 'CLR' ARE FROM FACE OF FINISH TO FACE OF FINISH AND SHALL BE MAINTAINED AND CANNOT BE FIELD ADJUSTED WITHOUT PRIOR APPROVAL OF THE ARCHITECT.
- 4. HOLLOW METAL FRAME AND ALUMINUM WINDOW TYPES ARE SHOWN ON SHEET SERIES A-570. DIMENSIONS TO FRAMES WILL BE TO OUTSIDE EDGE OF FRAME. SEE BOTH THE FLOOR PLAN AND EXTERIOR ELEVATIONS FOR ALL WINDOW TYPE REFERENCES
- 5. SEE FINISH PLANS FOR SIGNAGE LOCATION, SIGNAGE SYMBOL
- SOUND WALLS
- 7. FEC = FIRE EXTINGUISHER IN SEMI-RECESSED CABINET 8. A1/A-101 INDICATES INTERIOR ROOM ELEVATIONS ON SHEET REFERENCED
- 9. SEE SITE PLANS FOR EXTERIOR STAIRS, RAILING AND RAMP DETAILS
- 10. ROLLER SHADES PER FINISH PLANS
- 11. BID ALTERNATE 1 SHEETS SERIES A-800 INDICATED WITH:

KEYNOTES

#		
MARK	DESCRIPTION	
05.01	WALL MOUNTED LADDER WITH LOCKED ACCESS GATE	
10.01	WHITEBOARD 8'-0" X 4'-0". HIDDEN TAKLESS PAPER HOLDER ON TO TRAY ON BOTTOM	
10.31	KNOX BOX	
11.02	WALL MOUNTED DIGITAL DISPLAY - SEE DETAIL E1/A-591 FOR MOU PROVIDED, CONTRACTOR INSTALLED	
22.04	SINK	

KEY PLAN



5

 architects

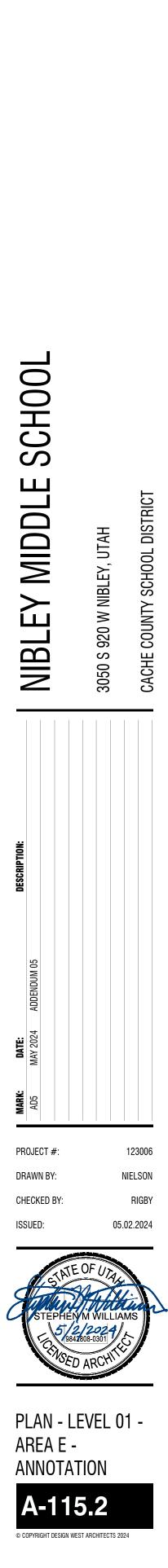
 LOGAN UT 84321

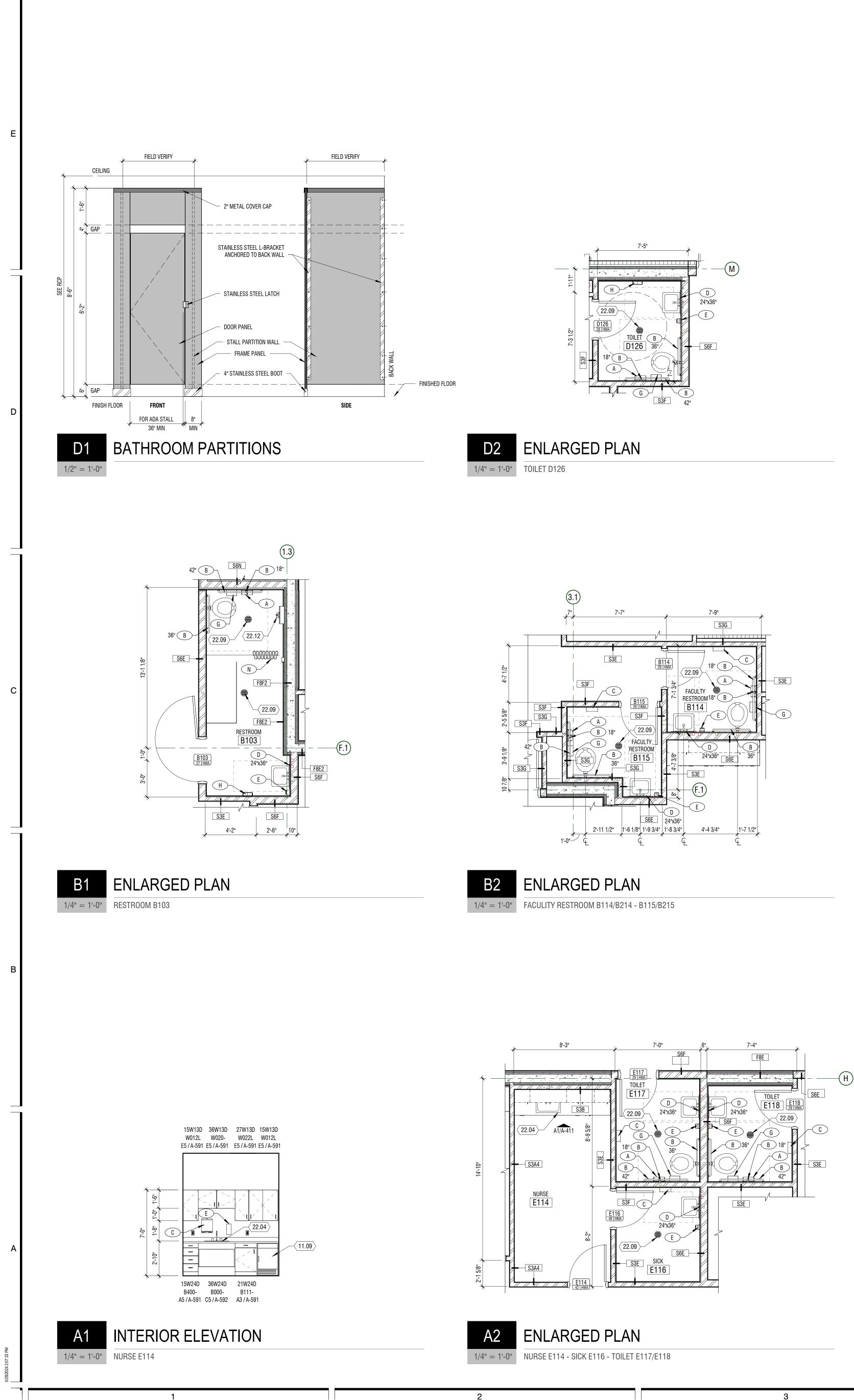
 LAKE CITY UT 84103
 _____ St Ð \geq **ESOUTH 300 WEST** 5 NORTH 400 WEST **d** 255 795 6. SEE SHEET SERIES G-004 & A-612 FOR ALL FIRE WALLS, SMOKE WALLS, WALLS TO CEILING LEVEL,

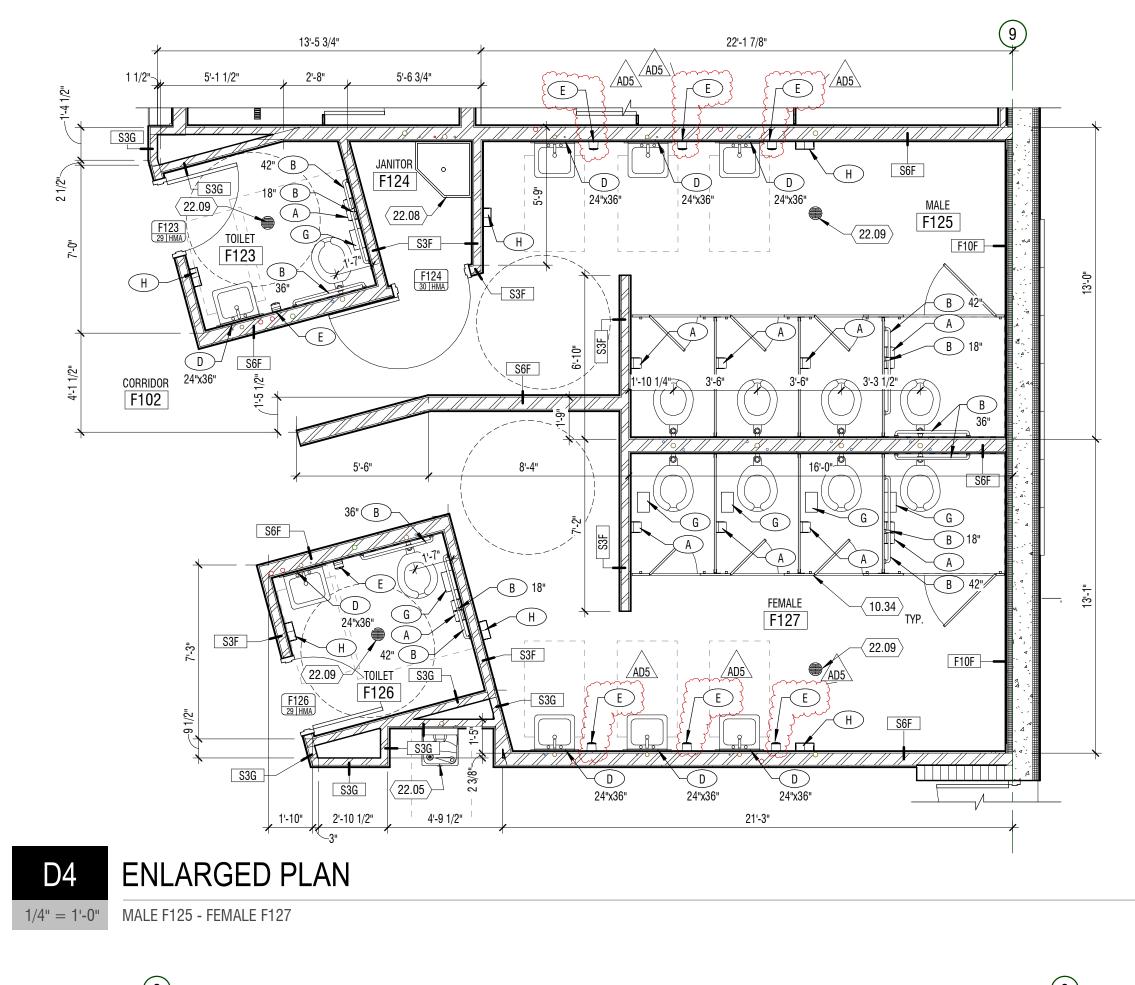
TOP AND MARKER

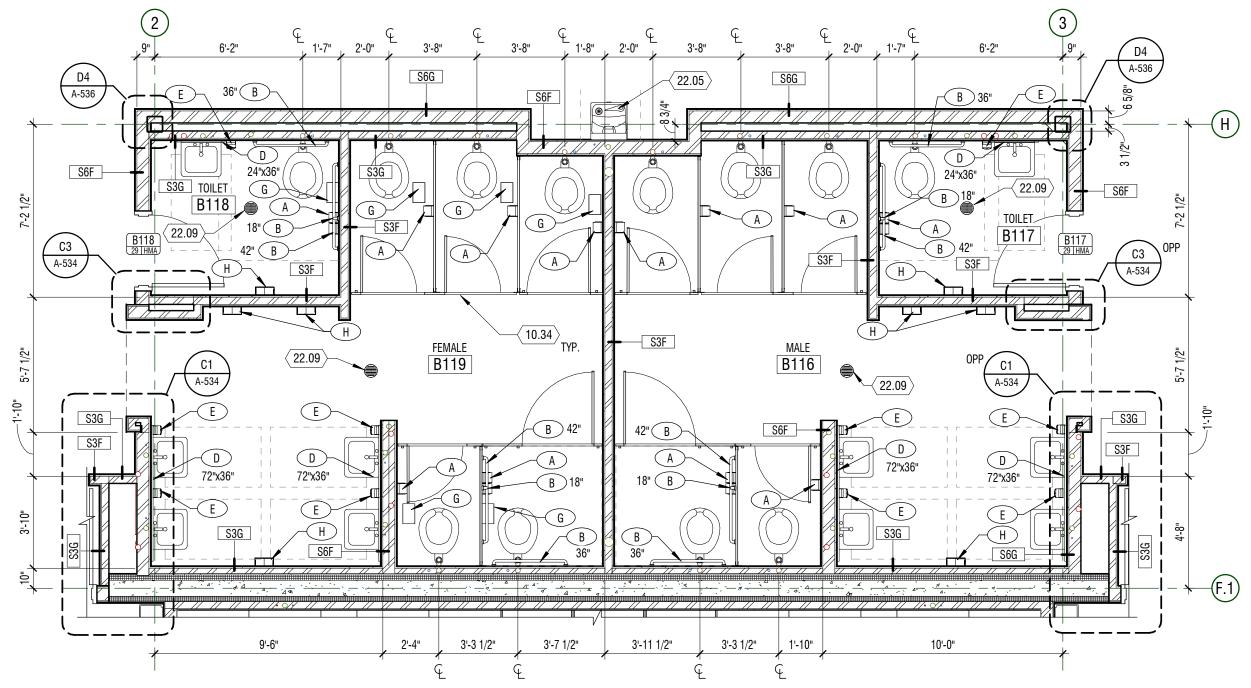
OUNTING. OWNER

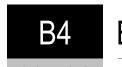
MD \mathbf{O} **CONSTRUCTION DO**





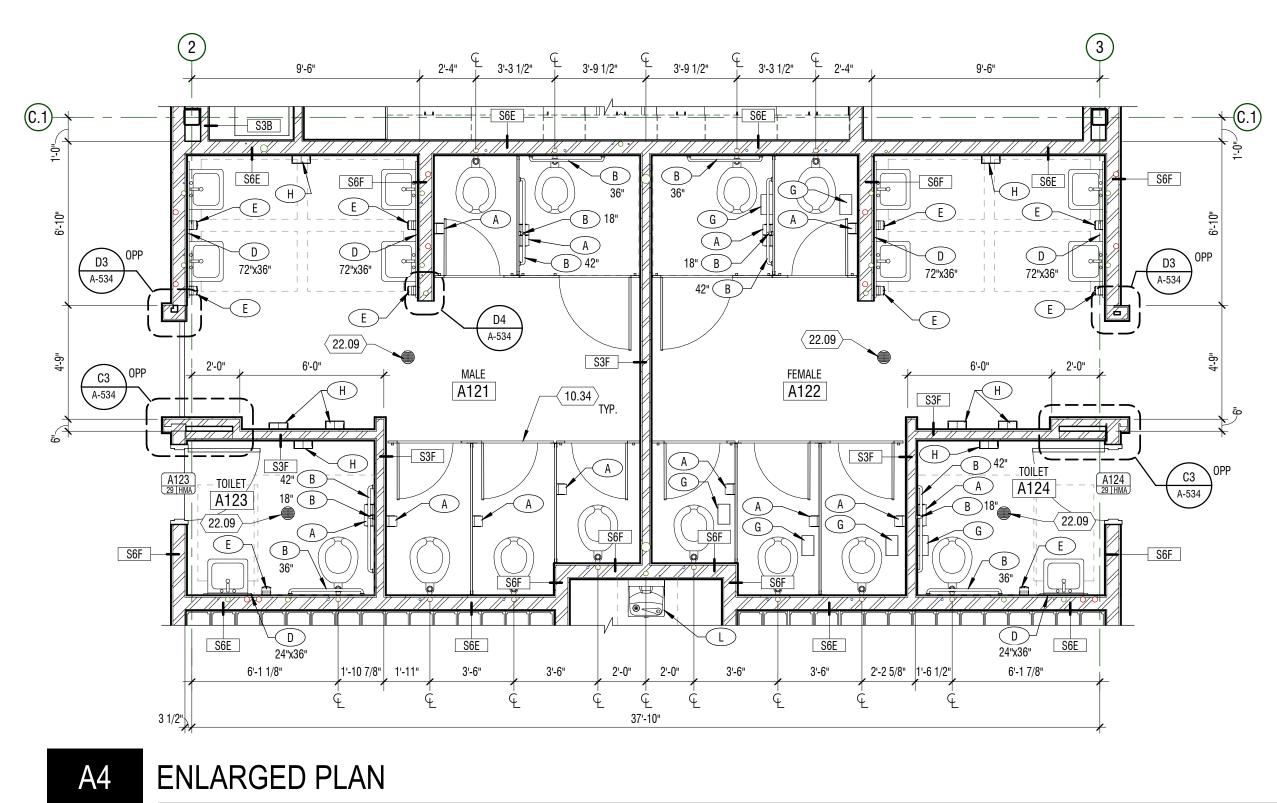






B4 ENLARGED PLAN

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



5

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

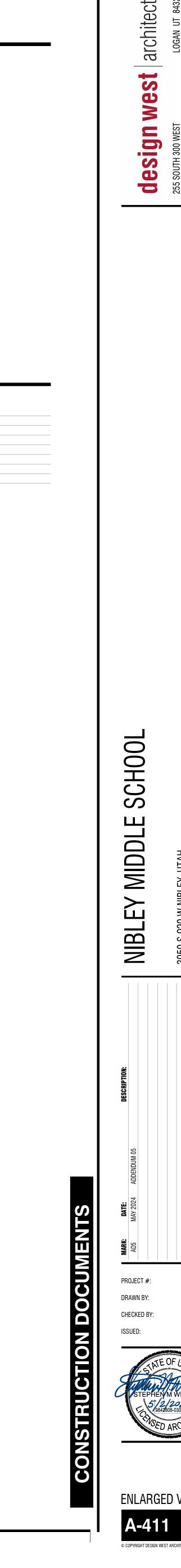
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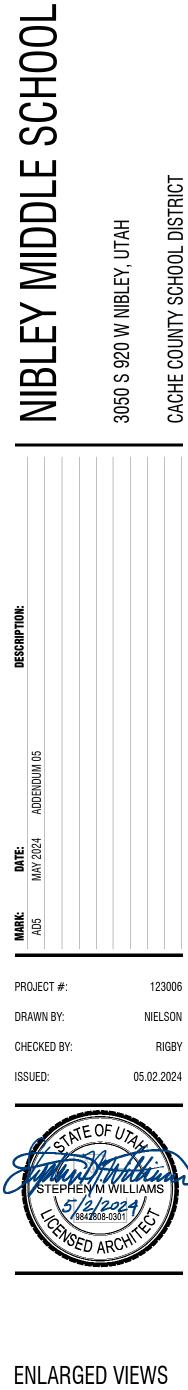
	\bigcirc	TOILET TISSUE DISPENSER OWNER FURNISHED, CONTRACTOR INSTALLED
	B	GRAB BAR LENGTH INDICATED ON PLAN
	\bigcirc	PAPER TOWEL DISPENSER OWNER FURNISHED, CONTRACTOR INSTALLED
		MIRROR SIZE INDICATED ON PLAN
<u>aa</u> 5	E	WALL MOUNTED SOAP DISPENSER OWNER FURNISHED, CONTRACTOR INSTALLED
	F	FEMININE 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

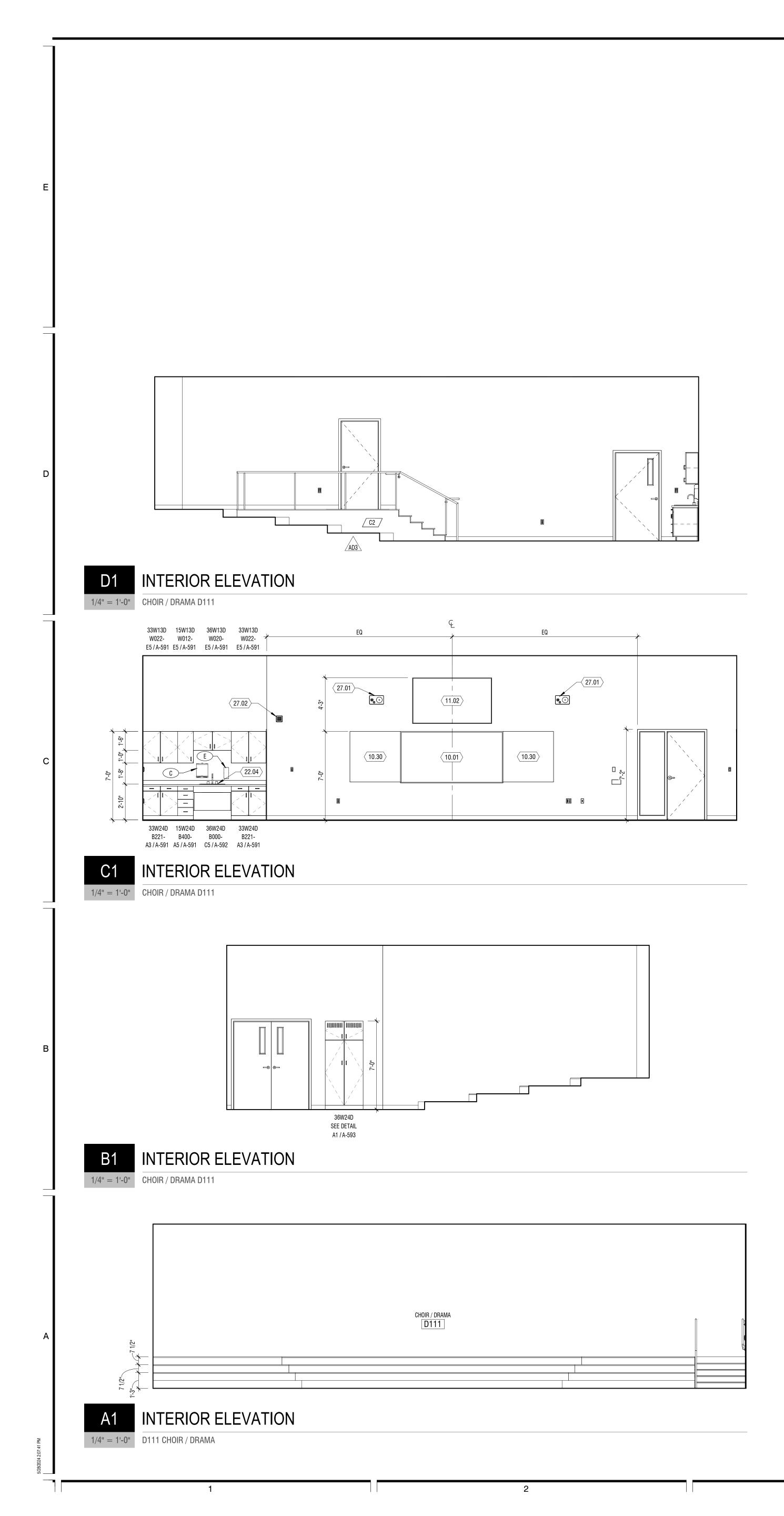
#	
IARK	DESCRIPTION
0.34	PARTITIONS - SEE DETAIL D1/A-411
1.09	DISHWASHER - OWNER PROVIDED, CONTRACTOR INSTALLED
2.04	SINK
2.05	DRINKING FOUNTAIN
2.08	MOP SINK
2.09	FLOOR DRAIN - SLOPE FLOOR TO DRAIN
2.12	SHOWER HEAD

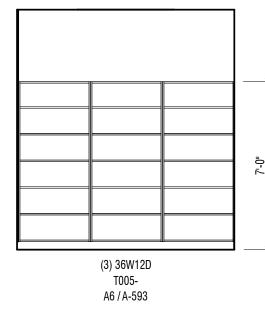


design westarchitects255 SOUTH 300 WESTLOGAN UT 84321255 SOUTH 400 WESTSALT LAKE CITY UT 84103



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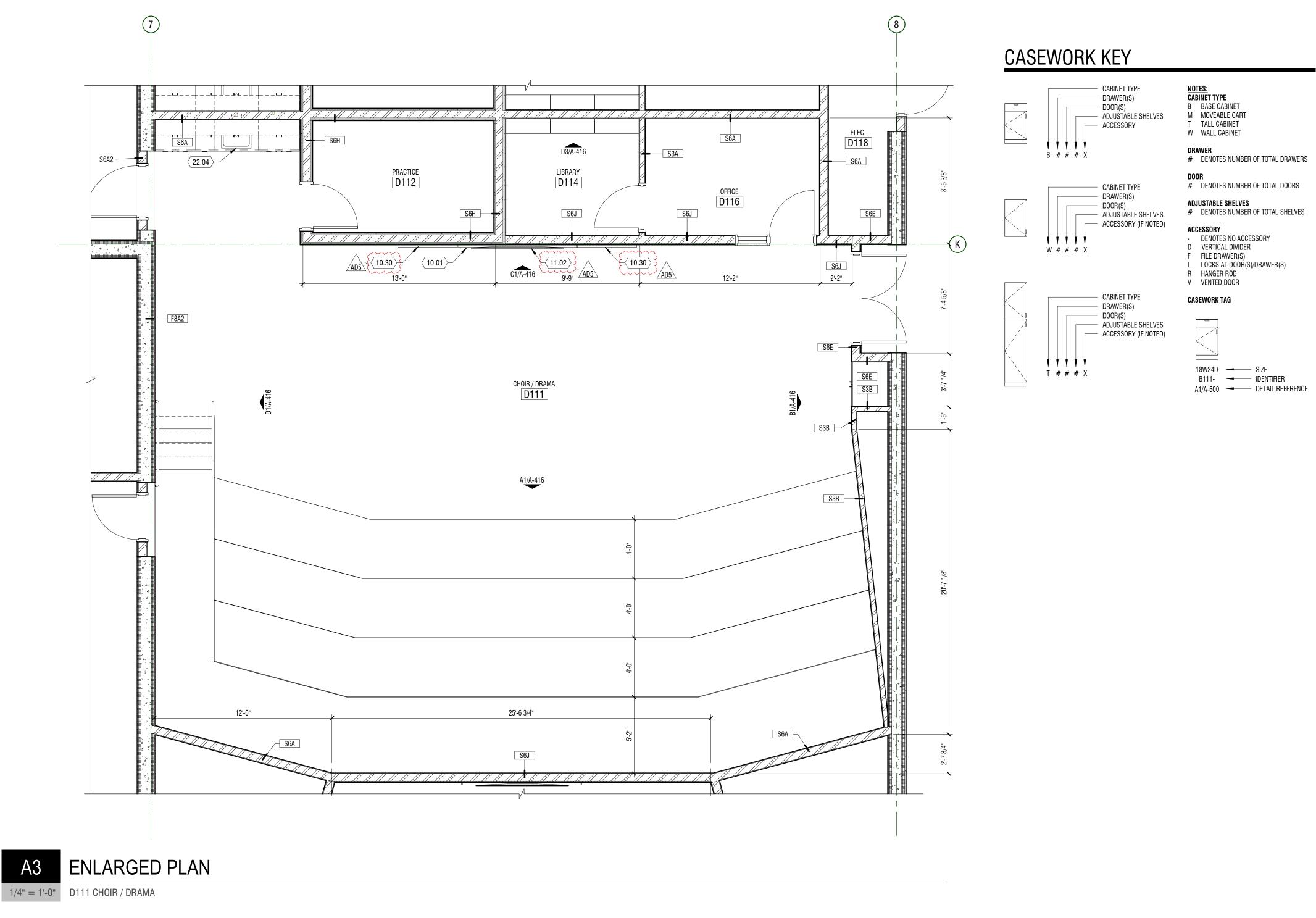


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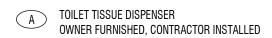
D3 INTERIOR ELEVATION





A3

ACCESSORIES



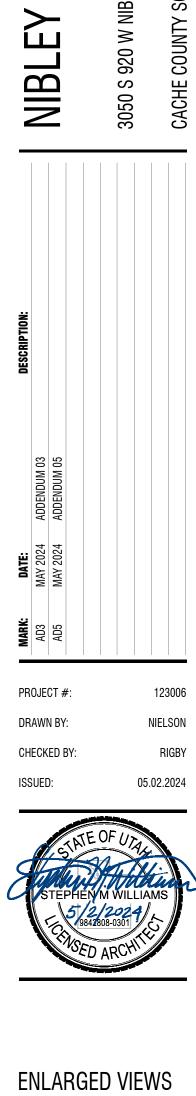
- B GRAB BAR LENGTH INDICATED ON PLAN
- C PAPER TOWEL DISPENSER OWNER FURNISHED, CONTRACTOR INSTALLED
- AD5 D MIRROR SIZE INDICATED ON PLAN
 - D5 WALL MOUNTED SOAP DISPENSER OWNER FURNISHED, CONTRACTOR INSTALLED
 - F FEMININE NAPKIN VENDOR
 - G FEMININE NAPKIN DISPOSAL
 - H ELECTRIC HAND DRYER
 - J DIAPER 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





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

R MOUNTING OWNER

IN TOP AND MARKER



SCHOOL

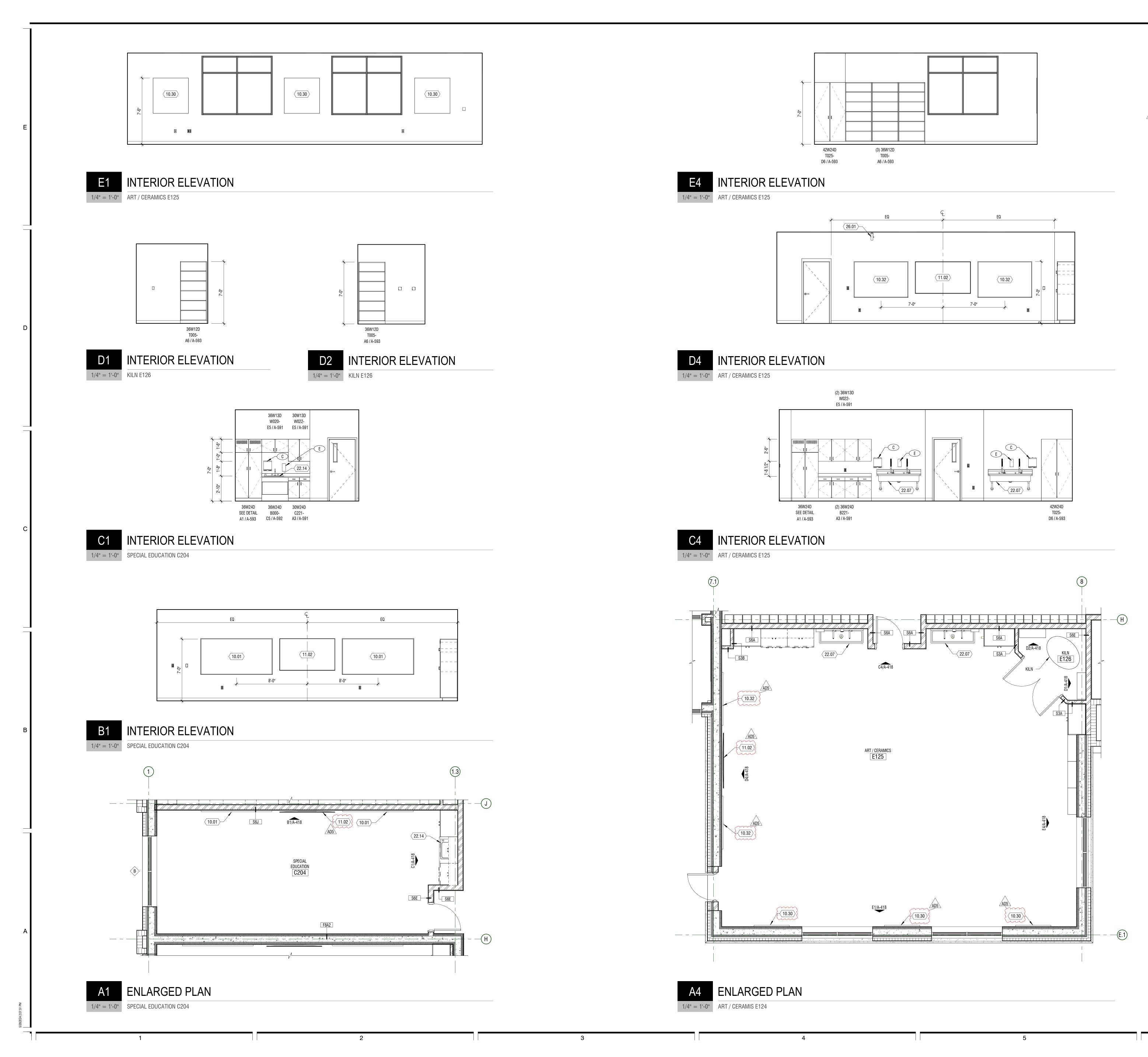
MIDDLE

DIS CO

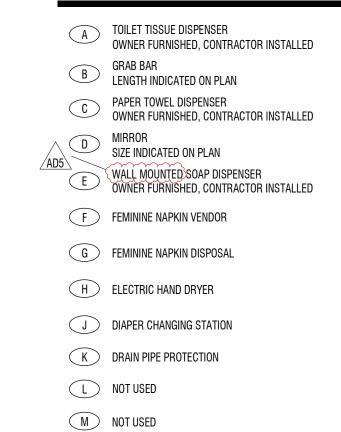
Ъ

123006 RIGBY

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ACCESSORIES



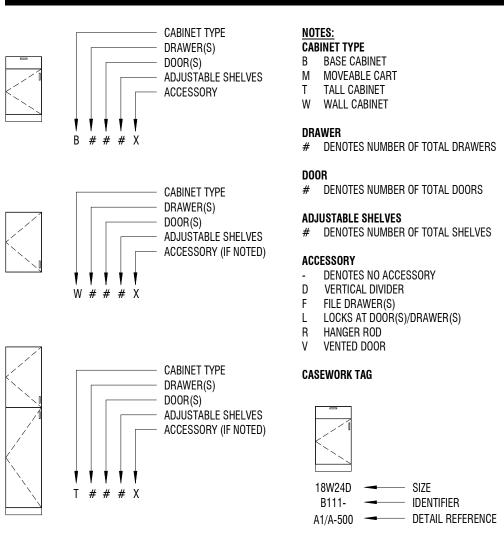
KEYNOTES

N SHOWER CURTAIN

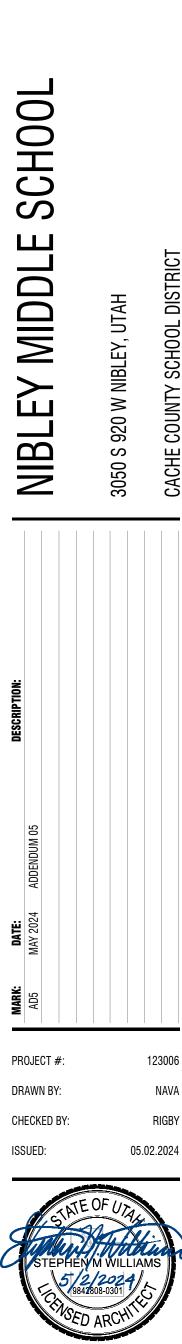
P SHOWER SEAT

(#	\rangle
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)
10.32	WHITEBOARD 6'-0" X 4'-0". HIDDEN TAKLESS PAPER HOLDER ON TRAY ON BOTTOM
11.02	AD5 WALL MOUNTED DIGITAL DISPLAY - SEE DETAIL E1/A-591 FOR MO
22.07	TROUGH WASH SINK
22.14	SINK W/BUBBLER
26.01	CEILING MOUNTED POWER CORD DROP - SEE ELECTRICAL

CASEWORK KEY







IN TOP AND MARKER

IN TOP AND MARKER

MOUNTING OWNER } mm

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



ENLARGED VIEWS A-418

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