FLOOR BOX SCHEDULE DESCRIPTION CATALOG N MULTI-SERVICE RECESSED TWO-COMPARTMENT FLOOR BOXES WITH (2)

WIREMOLD RFB2E-OG-RFB6DP-X I-GANG COMPARTMENTS FOR POWER. PROVIDE ROUND LOW PROFILE AND BEVELED EDGE COVER; INCLUDE MUDCAP, DEVICE PLATES, BLANK PLATES, MOUNTING BRACKETS, SPACERS AND COVER ASSEMBLIES. PROVIDE FLUSH TILE ASSEMBLIES. PROVIDE A MINIMUM OF (2) DUPLEX RECEPTACLES. **ABBREVIATIONS INDEX** DESCRIPTION DESCRIPTION ABBREV. ALTERNATING CURRENT MICROPHONE ABOVE FINISH FLOOR MINIMUM AMPS INTERRUPTING CAPACITY MOUNTING MTG AMPS METER MTR MOTOR AMPERE NOT APPLICABLE ANNUNCIATOR NORMALLY CLOSED AUTOMATIC TRANSFER SWITCH NATIONAL ELECTRICAL CODE AUXILIARY NATIONAL ELECT. MANUFAC. ASSOC. NFPA NATIONAL FIRE PROTECTION ASSOC. AMERICAN WIRE GAUGE BARE COPPER NOT IN CONTRACT

OS & Y

RECEP

SPKR

SWGR

VA/R

XFMR SW

RLA

NORMALLY OPENED

OUTSIDE SCREW & YOKE

PHASE FAILURE RELAY

POTENTIAL TRANSFORMER

ROCKY MOUNTAIN POWER

TELEPHONE TERMINAL BOARD

TELEPHONE TERMINAL CABINET

UNINTERRUPTED POWER SUPPLY

POLYVINYL CHLORIDE CONDUIT

NOT TO SCALE

PUSHBUTTON

PANEL

RELOCATE

RECEPTACLE

REQUIREMENT

RATED LOAD AMPS

ROOT MEAN SQUARE

SERVICE ENTRANCE

SPECIFICATIONS

SELECTOR SWITCH

SWITCHBOARD

SWITCHGEAR

TELEVISION

VOLT METER

WATTS

WITHOUT

UNDERGROUND

VOLT (KV-KILOVOLT)

WATTHOUR METER

WEATHERPROOF

TRANSFER SWITCH

EXPLOSION PROOF

TRANSFORMER

SINGLE-PHASE

TWO-POLE

THREE-POLE

FOUR-POLE

PHASE

VOLT-AMPS/REACTIVE

TYPICAL

SPEAKER

SWITCH

POWER FACTOR

BELOW FINISH GRADE

CABLE TELEVISION

COMPUTER TERMINAL

COMPLETE WITH

DIRECT CURRENT

OTHERWISE NOTED

EXPLOSION PROOF

FOOT CANDLE

HORSE POWER

JUNCTION BOX

KILOVOLT

KILOVARS

KILOWATT

LIGHTING

MAXIMUM

MAIN BUS

ISOLATED GROUND

KILOVOLT AMPERES

LOCKED ROTOR AMPS

MOTOR CONTROL CENTER

1000 CIRCULAR MILLS

MANUFACTURER

GROUND

EMPTY CONDUIT

CURRENT TRANSFORMER

EXISTING TO REMAIN, UNLESS

ELECTRICAL METALLIC TUBING

FIRE ALARM CONTROL PANEL

GROUND FAULT INTERRUPTER

GALVANIZED RIGID CONDUIT

INTERNATIONAL FIRE CODE

INTERMEDIATE METALLIC CONDUIT

EMERGENCY GENERATOR

COMMUNITY ANTENNA TELEVISION

CABINET

CEILING

COPPER

CONTRACTOR CONDUIT ONLY

IUMBER	
X-XX-6CTC2XX	NOTES:
	1. SEE FIXTURE S

SCHEDULE FOR TYPE. MOUNTING AND WATTAGE. . HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR

. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS. 4. SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED. 5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V. 6. HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.

7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.

13. FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.

DIGITAL DAYLIGHT SENSOR

FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND

OTHER DEVICES, REFER TO DIAGRAMS

CEILING PROJECTION SYSTEM CEILING BOX

PLUGMOLD

DOORBELL CHIME

PANELBOARD

FLOOR BOX - SEE SCHEDULE

POKE THRU - SEE SCHEDULE

MAIN DISTRIBUTION PANEL

EQUIPMENT CEILING RACK

TELEPHONE DEMARCATION BOARD

12. COORDINATE WITH DOOR HARDWARE SUPPLIER.

SYMBOL LEGEND

14. ARROWS SHOWN ON DEVICE INDICATE AIMING DIRECTION. 15. CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG 16. MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR

IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS. FRONT OF RACK.

SET OF DRAWINGS.

NOTES

HEIGHT

AS NOTED

AS NOTED

TO SUIT

EQUIP.

+46" 2.

+60" 5. 6.

+60" 5. 6.

+60" 5. 6.

+46" 2. 4.

+60" 6. 7.

+60" 6. 7.

+66" 6.

CEILING SPEC.

CEILING SPEC.

CEILING SPEC.

+46" 2. 4.

+46" 2. 4.

+46" 2 4

+46" 2. 4.

+46" 2. 4.

+46" 2. 4.

+46" 2. 4.

+46"

CEILING

+46"

AS NOTED

CEILING

+46" OR AS

NOTED

ABOVE

FLOOR

FLOOR

CEILING

CEILING SPEC.

+90" 2.

2. SEE

2. 4. SEE

DIAGRAM, SPEC.

DIAGRAM, SPEC.

MOUNT AS

2. SEE SPEC

SEE DIAGRAM,

SEE DIAGRAM,

SEE DIAGRAM,

AS NOTED SEE DIAGRAM, SPEC. 26 2726

PER MFR.

SEE DIAGRAM,

ABOVE SEE DIAGRAM.

ABOVE SEE DIAGRAM,

ABOVE SEE DIAGRAM,

+46" 2.

+72" 6.

+18" 6.

8. DOUBL 9. DEVICE DRAWI 10. SUBSC 11. SOLID	LE ARROWS INDICATES A DOUBLE FACE UNIT. ES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK S NGS AND ELEVATIONS FOR HEIGHT. CRIPT INDICATES NEMA CONFIGURATION. BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BE INDICATES INSTALLED IN CEILING.				17. INSTALL DE 18. DASHED LIN 19. SPEAKER T 20. MOUNTING	P DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS. EVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. NE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FROM BE MOUNTED IN HORIZONTAL POSITION. HEIGHT IS TO BOTTOM OF DISPLAY. BOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET
STANDARD MC	DUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS					
GENERAL						
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES		SYMBOL	DESCRIPTION
	ONE CIRCUIT, HOME RUN TO PANEL	HEIGH		1		EQUIPMENT PANEL, SEE DRAWINGS
	2 CIRCUIT, HOME RUN TO PANEL					CABLE TRAY
	3 CIRCUIT, HOME RUN TO PANEL					GROUND BUS BAR
	CONDUIT RUN CONCEALED IN WALL OR CEILING				X	LIGHT FIXTURE (LETTER DESIGNATES TYPE)
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND				$\frac{X}{X}$	EQUIPMENT NUMBER
	CONDUIT UP				X	ARCHITECTURAL ROOM NUMBER
	CONDUIT DOWN					DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE
	CONDUIT STUB LOCATION	CAP			X	SCHEDULE DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE
	CONDUIT / CIRCUIT CONTINUATION	CONDUIT				SCHEDULE / LEGEND
MI II TIDI E SVS	STEM SYMBOLS					
(R)	RECEPTACLE SWITCH PACK	ABOVE		П	J F	JUNCTION BOX ('F' IN FLOOR)
——————————————————————————————————————	DUDLEY DECEDTACLE UPPER OUTLET	CEILING +18" OR	2. 9.			MOTOR OUTLET
$\overline{}$	SIMPLEX RECEPTACLE SWITCH CONTROLLED	+18" OR	2. 9.		•	PUSHBUTTON
$\overline{}$	DUPLEX RECEPTACLE	AS NOTED +18" OR	2. 9. 11.			NON-FUSED DISCONNECT SWITCH
		AS NOTED	9.	} }	F)	FUSED DISCONNECT SWITCH
$A \longrightarrow A$	DUPLEX RECEPTACLE 5mA GFCI CIRCUIT BREAKER PROTECTED		13.		B	BREAKER DISCONNECT SWITCH
G G	RECEPTACLE	+24" OR			\$	SINGLE POLE SWITCH
₩P	WEATHERPROOF RECEPTACLE	AS NOTED +18" OR	2. 9.		<u>\$</u> \$ [™]	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT
<u> </u>	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	AS NOTED +18" OR	2. 9.	} })	LIGHT
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	AS NOTED +18" OR	2. 9. 11.			MAGNETIC STARTER
	FOURPLEX RECEPTACLE	AS NOTED +18" OR	2. 9. 11.			MAGNETIC STARTER / DISCONNECT COMBINATION
	GROUND FAULT INTERRUPTER FOURPLEX RECEPT	AS NOTED	2. 9.		VFD	VARIABLE FREQUENCY DRIVE
LIGHTING						
	CEILING LIGHT FIXTURE	CEILING	1.		PP	POWER PACK
<u> </u>	WALL LIGHT FIXTURE	AS NOTED	1.		RC X	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.		EP	EMERGENCY LIGHTING CONTROL UNIT
$\bigcirc\rangle$	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.		\$ ³	THREE-WAY SWITCH
0	LIGHT FIXTURE	AS NOTED	1.		\$4	FOUR-WAY SWITCH
0	EGRESS LIGHT FIXTURE	AS NOTED	1.		\$ ^K	KEY OPERATED SWITCH
• -I)()>	AREA LIGHT POLE AND FIXTURE POST TOP LIGHT POLE AND FIXTURE	CONCRETE BASE	1. 14. SEE DIAGRAM	1	\$ °	SWITCH WITH PILOT LIGHT
	BOLLARD	CONCRETE BASE	1. 14. SEE DIAGRAM		\$ ^D	VARIABLE INTENSITY SWITCH
	STEP LIGHT FIXTURE	AS NOTED	1.		\$ TM	TIMER SWITCH
0	IN-GRADE LIGHT FIXTURE	CONCRETE BASE	1.	1	\$	MOMENTARY CONTACT SWITCH
\bigcirc	FLOOD OR TRACK FIXTURE	AS NOTED	1.	1	x	LOW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE)
\otimes \bowtie	CEILING / WALL MOUNTED EXIT LIGHT	CEILING/ AS NOTED	1. 3. 8.			DUAL TECH. CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL PP AND ROOM CONTROLLERS)
	EMERGENCY LIGHT FIXTURE	AS NOTED	1.	1	$\overline{\mathbb{H}}$	DUAL TECH. WALL MOUNTED OCCUPANCY SENSOR (SUBSCIPT D = DIMMING AND DAYLIGHT CONTROL)
	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.	1	(P)	PHOTO-ELECTRIC CONTROL
TO	TIME OLOOK		-	1		(LOCATE ON ROOF, FACE NORTH)

	POWER POLE				EQUIPMENT 4-POST RACK / CABINET	AS NOTED	18. SEE SPEC.
EV EV	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER				EQUIPMENT 2-POST RACK	AS NOTED	18. SEE SPEC.
				M	UTILITY METER / CT CABINET	+72"	6.
TELECOMMUNIC	CATIONS						
≅⊳w	WALL PHONE "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+60" OR AS NOTED	2.	XX XX WAP WAP	WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING	WALL / CEILING	11.
×>	DATA OUTLET, ONE CABLE "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+18" OR AS NOTED	2. 9. 11.		"XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL		
×	DATA OUTLET, TWO CABLES "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+18" OR AS NOTED	2. 9. 11.	SPL	SPLITTER	ABOVE CEILING	
×	DATA OUTLET, THREE CABLES "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+18" OR AS NOTED	2. 9. 11.	VIA	VIA	ABOVE CEILING	
× ×	DATA OUTLET, "X" INDICATES QUANTITY "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+18" OR AS NOTED	2. 9. 11.	BDA	FIBER BDA	ABOVE CEILING	
	DATA OUTLET, SOLID = FLOOR, DASHED = CEILING "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL		11.	(ANT) _{XX}	ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL	CEILING	
	TELEVISION OUTLET, SOLID = FLOOR, DASHED = CEILING	+18" OR AS NOTED	9. 11.				

LIGHT FIXTURE SCHEDULE

+18" OR AS

NOTED

2. 9. 11.

2. 10. W/ CAP.

SEE DIAGRAM

SEE DIAGRAM

LIGHT FIXTURE ABBREVIATION SCHEDULE PROJECT MANAGER: GREG BRENCHLEY STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT ABOVE FINISH FLOOR WALL@CLG WALL MOUNT AT CORNER OF WALL AND CEILING CUSTOM FINISH AS SELECTED BY THE ARCHITECT. CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT STANDARD FINISH AS SELECTED BY THE ARCHITECT LIGHT FIXTURE GENERAL NOTES REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO

REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPENCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.

CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.

REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED. TO ACHIEVE THE OVERALL RUN LENGTH.

REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTH. MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS.

WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.

TIME CLOCK

POWER [ALL 120V RECEPTACLES SHALL BE CONSIDERED TAMPERPROOF]

DUPLEX RECEPTACLE WITH USB OUTLET

FOURPLEX RECEPTACLE EMERGENCY POWER (RED)

CONTROLLED DUPLEX RECEPTACLE

CONTROLLED FOURPLEX RECEPTACLE

TVSS PROTECTED RECEPTACLE

SPECIAL PURPOSE OUTLET

TOMBSTONE RECEPTACLE

CORD DROP

CORD REEL

ISOLATED GROUND RECEPTACLE

PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.

REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).

FOR A COMPLETE AND WORKING SYSTEM

10. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED. DELIVERED LUMENS VOLTS TOTAL WATTS LAMP TYPE TYPE DESCRIPTION MFR. CATALOG # DIMMING TYPE CRI ALTERNATE MFR BASE BID IS LEAVING THESE FIXTURES AS IS. BP#2 - PROVIDE PRICING 4 LAMP SURFACE MOUNTED SPECIFICATION GRADE WRAP WITH ACRLIC FOR REPLACING THE EXISTING LAMPS IN THESE FIXTURES WITH AN LED 277 V 3500 K 45 VA NONE RETROFIT TUBES. BASE BID IS LEAVING THESE FIXTURES AS IS. BP#2 - PROVIDE PRICING 2 LAMP SURFACE MOUNTED SPECIFICATION GRADE WRAP WITH ACRLIC FOR REPLACING THE EXISTING LAMPS IN THESE FIXTURES WITH AN LED | 277 V LED NONE 3,500 3500 K RETROFIT TUBES. PENDANT MOUNTED DIMMABLE LED CYLINDER; 34 DEGREE DISTRIBUTION; IVO-PC-D-25-35K-80CRI-WD-DARK-MVOLT-DMX-L9-SGBCC-CAN-XX-P-AR-LS DMX/RDM LED DRIVER: WHITE FINISH: REPLACEMENT OF FIXTURES IS PART 27 VA LED 2,500 3500 K DMX OF BID ALTERNATE #3, PROVIDE COST FOR REPLACING FIXTURES AS PART OF S-DWHG BID ALTERNATE. FOR THE BASE BID THE EXISTING FIXTURES SHALL REMAIN SURFACE MOUNTED RGBW LED TAPE LIGHT: MOUNTED IN A LOW-PROFILE ALLIMINUM CHANNEL WITH FROSTED LENS: DMX CONTROLLED: CONTRACTOR TO COORDINATE END PREPARATION PROVIDE ALL POWER SLIPPLIES KELVIX TAPE: RGBW-1-24V CHANEL: CH-016-2-FRR-CP=EC RGBW LED DMX 120 V 8 VA 0 K CONNECTORS, JUMPERS, MOUNTING HARDWARE, CABLING ETC. REQUIRED

GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL
- APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.

WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER

- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC.
- COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.

BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.

- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
-). ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED
- MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED . CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION.

CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH
CINCUITS EXTENDING OVER 70 FOR 120 VOLTAIND TIS FOR 277 VOLT 20 AMP CINCUITS SHALL BE NOW WITH
CONDUCTORS PER TABLE BELOW.
CONDUCTORS FER TABLE BELOW.

COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING									
MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE								
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT							
<70	MIN. #12 AWG	MIN. #12 AWG							
70 - 115	MIN. #10 AWG	MIN. #12 AWG							
115 - 170	MIN. #8 AWG	MIN. #10 AWG							
170 - 270	MIN. #6 AWG	MIN. #8 AWG							
271 - 380	NOTE B	MIN. #8 AWG							
>380	NOTE B	NOTE B							

- A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO

ALL CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES PARALLEL TO, OR AT RIGHT ANGLES TO, THE STRUCTURE OR ADJACENT BUILDING ELEMENTS. SEPARATIONS BETWEEN CONDUITS AND FASTENINGS OF CONDUITS SHALL BE NEAT AND CONSISTENT. CONDUIT SHALL BE INSTALLED AS TIGHT TO THE BOTTOM OF STRUCTURAL ELEMENTS WHEN PARALLEL TO JOISTS AS CODE WILL ALLOW. OVERALL INSTALLATION SHALL BE ACCOMPLISHED IN AN AESTHETIC AND WORKMANLIKE MANNER. NO CONDUITS SHALL BE ALLOWED TO RUN PERPENDICULAR TO THE BOTTOM CHORD OF THE JOISTS.

- 4. DIVISION 26 SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. FIELD VERIFY ALL ELECTRICAL EQUIPMENT.
- BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO
- 16. ELECTRICAL CONTRACTOR SHALL COORDINATE PROJECT PHASING WITH GENERAL CONTRACTOR AND BID AND PERFORM RESPONSIBILITIES FOR THIS PROJECT TO GENERAL CONTRACTOR EXPECTATIONS.
- 7. COORDINATE ELECTRICAL DEMOLITION WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR.
- 18. CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH HEAD CUSTODIAN AND OWNER.
- 19. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF WORK REQUIRED, THE CONTRACTOR WILL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION OF THE OWNER.
- 0. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK, GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING-IN THE BUILDING. COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS ACCOMMODATE INSTALLATION OF ELECTRICAL EQUIPMENT AND MATERIALS.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER
- 3. CONTRACTOR MUST CONCEAL ALL RACEWAY THROUGHOUT THE PROJECT. SURFACE MOUNT RACEWAY IS UNACCEPTABLE EXCEPT WHERE THE USE OF PAINTED SURFACE METAL RACEWAYS (EMT) IS APPROVED SOLEY BY THE ARCHITECT, PAINT TO MATCH SURROUNDING SURFACE.
- 24. ALL CONCRETE CUT AND PATCH WORK REQUIRED FOR FLOOR BOXES INSTALLATION AND/OR RELOCATION OF ELECTRICAL DEVICES AND PANELS THAT REQUIRE WORK WITHIN THE FLOORS SHALL BE DONE BY ELECTRICAL CONTRACTOR. ALL CORE CUTTING FOR NEW SERVICE SHALL ALSO BE COVERED UNDER ELECTRICAL CONTRACTORS REQUIRED WORK.

5. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ALL WASTE, SURPLUS MATERIALS, RUBBISH

- OR DEBRIS WHICH IS CAUSED BY HIS EMPLOYEES OR RESULTING FROM HIS WORK. AFTER ALL EQUIPMENT AND DEVICES HAVE BEEN INSTALLED, REMOVE ALL LABELS, STICKERS, STAINS, TEMPORARY COVERS, ETC. IDENTIFICATION PLATES ON ALL EQUIPMENT 6. IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY
- MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.
- . PROVIDE GFCI CIRCUIT BREAKERS SERVING RECEPTACLES PROVIDING POWER TO DRINKING FOUNTAINS, REFRIGERATORS, VENDING MACHINES, DISPOSALS, AND WASHING MACHINES.
- 28. CAREFULLY REVIEW THE ENTIRE DRAWING PACKAGE PRIOR TO PROVIDING BID, INCLUDING THE
- ARCHITECTURAL AND MECHANICAL DRAWINGS. NOT REVIEWING THE ENTIRE SET IS NOT ACCEPTABLE. 29. PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS. CEILINGS WITH CLOUDS

ARE CONSIDERED OPEN/EXPOSED CEILING. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW. 0. PROVIDE WEATHERPROOF, NEMA 3R RATED EQUIPMENT FOR ALL EXTERIOR APPLICATIONS

DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.

CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF

- SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC. LEAVE ALL EXISTING FOUIPMENT IN PORTIONS OF THE BUILDING NOT BEING REMODELED. IN WORKING
- CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION. EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE
- SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED. REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY,
- AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

SHEET INDEX

ELECTRICAL SYMBOLS AND NOTES PANELBOARD SCHEDULES THEATRICAL SCHEDULES ELECTRICAL DIAGRAMS THEATRICAL DIAGRAMS

THEATRICAL DIAGRAMS OVERALL ELECTRICAL PLAN BASEMENT ELECTRICAL DEMO PLAN MAIN LEVEL ELECTRICAL DEMO PLAN

BASEMENT LEVEL AUDIOVISUAL DEMO PLAN MAIN LEVEL AUDIOVISUAL DEMO PLAN BASEMENT LEVEL LIGHTING PLAN

MAIN LEVEL LIGHTING PLAN BASEMENT LEVEL POWER PLAN MAIN LEVEL POWER PLAN AUDIOVISUAL SYMBOLS AND NOTES AUDIOVISUAL SCHEDULES BASEMENT LEVEL AUDIOVISUAL PLAN

MAIN LEVEL AUDIOVISUAL PLAN

AUDIOVISUAL ELEVATIONS

AUDIOVISUAL DIAGRAMS

AND NOTES

ARCHITECTS

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HICKS /

STATUS 250047

BIM LEAD **ENGINEER**

PANEL: EM	2 (E)				TYPE: _	Т	ype 1		VOLTS	:	120/208 Y	<u> </u>	PHASE: _	3		W	IRES:4
MOUNTING: SUF	RFACE							LC	CATION	: Space	187					MAINS:	MLO
BUSSING:								FE	D FROM	:							SUBFEED LUGS
																	DOOR-IN-DOOR
																•	ISO GROUND
																•	 200% NEUTRAL
																•	SPD
																•	 ⁻ -
	1	1	1	1		1	BI	RANCH	BREAKEI	RS		i	1		i	 	
ITEM	AMPS	TYPE	POLE	WIRE SIZE	CIR. NO.	A	В	С	A	В	С	CIR. NO.	WIRE SIZE	POLE	TYPE	AMPS	ITEM
**FIRE/SECURITY	20 A		1		1	0			0			2		1		20 A	**FIRE ALARM BELL
**FIRE/SECURITY	20 A		1		3		0			167		4	8	3		20 A	'ELTS'
**SPARE	20 A		1		5			0			167	6					
**MDF RACK	20 A		1		7	0			167			8					
**MDF RACK	20 A		1		9		0					10		1			SPACE ONLY
**MDF RACK	20 A		1		11			0				12		1			SPACE ONLY
**MDF RACK	20 A		1		13	0						14		1			SPACE ONLY
**MDF RACK	20 A		1		15		0					16		1			SPACE ONLY
**MDF RACK	20 A		1		17			0				18		1			SPACE ONLY
SPACE ONLY			1		19							20		1			SPACE ONLY
SPACE ONLY			1		21							22		1			SPACE ONLY
SPACE ONLY			1		23							24		1			SPACE ONLY
SPACE ONLY			1		25							26		1			SPACE ONLY
SPACE ONLY	- -		1		27							28		1			SPACE ONLY
SPACE ONLY			1		29							30		1			SPACE ONLY
SPACE ONLY			1		31							32		1			SPACE ONLY
SPACE ONLY			1		33							34		1			SPACE ONLY
SPACE ONLY			1		35							36		1			SPACE ONLY
SPACE ONLY			1		37							38		1			SPACE ONLY
SPACE ONLY SPACE ONLY			1		39 41							40 42		1			SPACE ONLY SPACE ONLY
SPACE ONLT			'		41							42		<u>'</u>			SPACE ONLT
FEED THRU LOAD						167	167	167	TOTAL	(VA)							CONN. LOAD TOTAL
0 VA						1 A	1 A	1 A	AMPS/F								0 VA
J .//	_						1		J - //							-	
											Α	IC RATII	NG		EXISTING	<u> </u>	AMPS RMS SYSM.
OTES: MANUFACTURE	R: EATON]				:		CII	RCUIT BE	REAKER	TYPE:		-				
ROVIDE NEW BREAKE EXISTING BREAKER		·							<blank: af="" co="" eg="" gf="" st<="" td=""><td>> TH 5 n AR CC 30</td><td>ERMAL M nA GROU C-FAULT MBINATI mA EQUI</td><td>IND FAU CIRCUI ION AFC IPMENT</td><td>IC CIRCU LT CIRCU T BREAKI I/GFCI CII GROUND IIT BREAK</td><td>JIT BREAI ER RCUIT BF FAULT (</td><td>KER REAKER</td><td>BREAKER</td><td></td></blank:>	> TH 5 n AR CC 30	ERMAL M nA GROU C-FAULT MBINATI mA EQUI	IND FAU CIRCUI ION AFC IPMENT	IC CIRCU LT CIRCU T BREAKI I/GFCI CII GROUND IIT BREAK	JIT BREAI ER RCUIT BF FAULT (KER REAKER	BREAKER	

PANEL: A2 (E)				_ т	/PE: _	T	ype 1		VOLTS	:	120/208	Υ	_ PHA	\SE:	3		WIRES:4
MOUNTING: SURFACE								LC	CATION	:						N	MAINS: MLO
BUSSING:									D FROM								SUBFEED LUGS
				_													DOOR-IN-DOOR
									,	LLOTT			_				ISO GROUND
																	
																	200% NEUTRAL
																	SPD
							ВІ	RANCH	BREAKEI	RS							
ITEM	AMPS	TYPE	POLE	WIRE	CIR. NO.	Α	В	С	A	В	С	CIR. NO.	WIRE SIZE	POLE	TYPE	AMPS	ITEM
*RIGGING CONTROLLER	20 A		1		1	500			0			2		1		20 A	**SPARE
*RECEPT - ER-1	20 A		1		3		180			0		4		1		20 A	**SPARE
*RECEPT	20 A		1		5			540			0	6		1		20 A	**SPARE
**FAN	20 A		1		7	0			0			8		1		20 A	**PLUGS LOWER KIVA
**FAN	20 A		1		9		0			0		10		1		20 A	**PLUGS UPPER STEPS KIVA
**FAN	20 A		1		11			0			0	12		1		20 A	**PLUGS CENTER STEPS
**FAN	20 A		1		13	0			0			14		1		20 A	**PLUGS STORAGE ROOM
**FAN	20 A		1		15		0			0		16		1		20 A	**PLUGS LOWER KIVA
**SPARE	20 A		1		17			0			0	18		1		20 A	**PLUGS BACK KIVA
**SPARE	20 A		1		19	0			0			20	-	1		20 A	**PLUGS LOWER KIVA
**SPARE	20 A		1		21		0			0		22	-	1		20 A	**PROJECTION SCREEN
**PLUGS UPPER STEPS	20 A		1		23			0			0	24		1		20 A	**SPARE
**PLUGS CENTER STEPS	20 A		1		25	0			0			26		1		20 A	**BACK STAGE LIGHTING STAIR
**PLUG UPPER KIVA	20 A		1		27		0			0		28		1		20 A	**SPARE
**SPARE	20 A		1		29			0			0	30		1		20 A	**SPARE
**SPARE	20 A		1		31	0			0			32		1		20 A	**SPARE
**SPARE	20 A		1		33		0			0		34		1		20 A	**SPARE
**MARQUEE SIGN	20 A		1		35			0			0	36		1		20 A	**SPARE
**SPARE	20 A		1		37	0	_		0			38		1		20 A	**SPARE
**SPARE	20 A		1		39		0			0		40		1		20 A	**SPARE
**SPARE	20 A		1		41			0			0	42		1		20 A	**SPARE
FEED THRU LOAD						500	180	540	TOTAL	(VA)							CONNECTED LOAD TOTAL
0 VA						5 A	2 A	5 A	AMPS/F	HASE							720 VA
									_		AIC	RATII	NG		EXISTIN	IG	AMPS RMS SYSM.
																	•
OTES: MANUFACTURER: SQUA	ARE D							CII	RCUIT BE			MAAA	ETIO	IDCLUT	DDEAL	-D	
PROVIDE NEW BREAKER * EXISTING BREAKER									<blank:< td=""><td></td><td></td><td></td><td></td><td></td><td>BREAKI BREAK</td><td></td><td></td></blank:<>						BREAKI BREAK		
									AF	AR	C-FAUL	T CIRC	CUIT BF	REAKER	₹		
								1	CO EG						UIT BRI	EAKER RCUIT BR	DEALED

PANEL: <u>A3 (E)</u>				_ T	YPE: _	Т	ype 1		VOLTS	S:	120/208	Υ	_ PHA	ASE:	3		WIRES: _	4
MOUNTING: SURFACE								L	OCATION	l:						М	IAINS: MLO	
BUSSING:				_				FE	ED FROM	 :								JBFEED LUGS
				_						225 A							D IS	OOR-IN-DOOR O GROUND 00% NEUTRAL PD
							В	RANCH	BREAKE	RS								
ITEM	AMPS	TYPE	POLE	WIRE SIZE	CIR. NO.	Α	В	С	A	В	C	CIR. NO.	WIRE SIZE	POLE	TYPE	AMPS		ITEM
**Motor Space 501	20 A		3	12	1	0						2						
					3		0					4						
					5			0				6						
**Motor Space 501	20 A		3	12	7	0						8						
					9		0			0		10		1	-	20 A	**T	ansformer
					11			0				12						
**Motor Space 501	20 A		3	12	13	0						14						
					15		0					16						
					17			0				18						
**Motor Space 163	20 A		3	12	19	0						20						
					21		0					22						
					23			0				24						
**Motor Space 163	20 A		3	12	25	0						26						
-					27		0					28						
******					29			0				30						
**Motor Light Box	20 A		3		31	0						32						
							0					36						
					35 37			0				38						
					39							40						
					41							42						
		1	•		-						1			ı		ļ.		
FEED THRU LOAD						0	0	0	TOTAL								CONNECT	ED LOAD TOTA
0 VA						0 A	0 A	0 A	AMPS/I	PHASE						-		0 VA
											AIC	RATII	NG		EXISTI	NG	AMPS	RMS SYSM.
OTES: MANUFACTURER: SQU	ARE D						-	Cı	RCUIT B	REAKER	TYPE:	:						
ROVIDE NEW BREAKER EXISTING BREAKER									<blank GF AF CO EG ST</blank 	5 n AR CC 30		UND F. T CIRC TION A JIPMEI	AULT (CUIT BI FCI/GF NT GR(CIRCUIT REAKER CI CIRC	BREAK CUIT BR AULT C	ER	EAKER	



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ALBION MIDDLE SCHOOL - KIVA LIGHTING AND AV UPG
2755 Newcastle Drive, Sandy, UT 84093
Canyons School District
CONSTRUCTION DOCUMENT

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	- 0 0 0 -
DATE	STATUS
PROJECT NUMBE	_{ER} 250047
FILE	
DRAWN BY	BIM LEAD

PANELBOARD SCHEDULES

ENGINEER

Stage Lighting Dimmer Schedule - Lower Half

Dimmer	Module			DMX			Dimmer	Module			DMX		
Number	Type	Location	Circuit #	Chanel	Load Type	FM	Number	Type	Location	Circuit #		Load Type	EM
1	Туре	FOH1 (OB1)	1	417	DMX	LIVI	49	туре	HOUSELIGHTS	49	465	INC	LIVI
2	R20 —	FOH1 (OB1)	2	418	DMX		50	D20	HOUSELIGHTS	50	466	INC	
3		FOH1 (OB1)	3	419	DMX		51		HOUSELIGHTS	51	467	INC	
4	R20 —	FOH1 (OB1)	4	420	DMX		52	D20	HOUSELIGHTS	52	468	INC	<u> </u>
5		FOH1 (OB1)	5	420	DMX		53		EMERGENCY HOUSELIGHTS FRONT	53	469	INC	Υ
6	R20 —	FOH2 (OB2)	6	421	DMX		54	D20	EMERGENCY HOUSELIGHTS FRONT	54	470	INC	Y
7		` ,	7							55			Y
	R20 —	FOH2 (OB2)		423	DMX		55	D20	RGBW WALL WASH HL		471	DMX	-
8		FOH2 (OB2)	8	424	DMX		56		RGBW WALL WASH HL	56	472	DMX	
9	R20 -	FOH2 (OB2)	9	425	DMX		57	D20	SPARE	57	473	DMX	
10		FOH2 (OB2)	10	426	DMX		58	+	SPARE	58	474	DMX	
11	R20	FOH3 (OB3)	11	427	DMX		59	D20	SPARE	59	475	DMX	<u> </u>
12		FOH3 (OB3)	12	428	DMX		60		SPARE	60	476	DMX	
13	R20	FOH3 (OB3)	13	429	DMX		61	AFM	SPACE	61	477	DMX	
14	1	FOH3 (OB3)	14	430	DMX		62		SPACE	62	478	DMX	
15	R20	OVER STAGE 1 (OB4)	15	431	DMX		63	AFM -	SPACE	63	479	DMX	
16	1120	OVER STAGE 1 (OB4)	16	432	DMX		64	7 (1 1)	SPACE	64	480	DMX	
17	R20	OVER STAGE 1 (OB4)	17	433	DMX		65	AFM	SPACE	65	481	DMX	
18	1120	OVER STAGE 1 (OB4)	18	434	DMX		66	Al IVI	SPACE	66	482	DMX	
19	R20	OVER STAGE 2 (OB5)	19	435	DMX		67	AFM -	SPACE	67	483	DMX	
20	NZU	OVER STAGE 2 (OB5)	20	436	DMX		68	ALIVI	SPACE	68	484	DMX	
21	R20	OVER STAGE 2 (OB5)	21	437	DMX		69	AFM -	SPACE	69	485	DMX	
22	NZU	OVER STAGE 2 (OB5)	22	438	DMX		70	AFIVI	SPACE	70	486	DMX	
23	R20	SPARE	23	439	DMX		71	AFM	SPACE	71	487	DMX	
24	K20	SPARE	24	440	DMX		72	AFIVI	SPACE	72	488	DMX	
25	R20	SPARE	25	441	DMX		73	AFM	SPACE	73	489	DMX	
26	NZU	SPARE	26	442	DMX		74	AFIVI	SPACE	74	490	DMX	
27	D20	SPARE	27	443	DMX		75	A E N 4	SPACE	75	491	DMX	
28	R20	SPARE	28	444	DMX		76	AFM -	SPACE	76	492	DMX	
29	D20	SPARE	29	445	DMX		77	A E N 4	SPACE	77	493	DMX	
30	R20 —	SPARE	30	446	DMX		78	AFM	SPACE	78	494	DMX	
31	4514	SPACE	31	447	DMX		79	A 5 A A	SPACE	79	495	DMX	
32	AFM —	SPARE	32	448	DMX		80	AFM -	SPACE	80	496	DMX	
33		SPACE	33	449	DMX		81		SPACE	81	497	DMX	
34	AFM —	SPACE	34	450	DMX		82	AFM -	SPACE	82	498	DMX	
35	1 4514	SPACE	35	451	DMX		83	A 5 2 4	SPACE	83	499	DMX	
36	AFM —	SPACE	36	452	DMX		84	AFM	SPACE	84	500	DMX	
37		SPACE	37	453	DMX		85		SPACE	85	501	DMX	
38	AFM —	SPACE	38	454	DMX		86	AFM	SPACE	86	502	DMX	
39	1	SPACE	39	455	DMX		87		SPACE	87	503	DMX	
40	AFM —	SPACE	40	456	DMX		88	AFM -	SPACE	88	504	DMX	
41		SPACE	41	457	DMX		89		SPACE	89	505	DMX	
42	AFM —	SPACE	42	458	DMX		90	AFM	SPACE	90	506	DMX	
43		SPACE	43	459	DMX		91		SPACE	91	507	DMX	
44	AFM —	SPACE	44	460	DMX		92	AFM -	SPACE	92	508	DMX	
45		SPACE	45	461	DMX		93		SPACE	93	509	DMX	
46	AFM —	SPACE	46	462	DMX		94	AFM	SPACE	94	510	DMX	
47		SPACE	47	463	DMX		95		SPACE	95	511	DMX	
48	AFM —	SPACE	48	464	DMX		96	AFM	SPACE	96	512	DMX	
40		SPACE	40	404	DIVIX		ا عن		STACE	ا عن	217	ΙΝΙΝ	İ

INC LINE VOLTAGE INCANDESCENT MLV MLV MAGNETIC LOW VOLTAGE

ELV ELECTRONIC LOW VOLTAGE

DMX DMX DIMMING

SW SWITCHED RELAY

STAGE LIGHTING DIMMING
SCHEDULE
SCALE = 12" = 1'-0"

ARCHITECTS

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ALBION MIDDLE SCHOOL - K
2755 Newcastle Drive, Sandy, I
Canyons School District
CONSTRUCTION DOCUMENT

11/2025 BRIAN HICKS No. 770903742202

DATE	STATUS
PROJECT NUMBE	250047

SCALE 12" = 1'-0"

THEATRICAL SCHEDULES

AUDITORIUM DISTRIBUTION SCHEDULE

*LENGTH QUANTITY OF CIRCUIT DMX STAGE-PIN 1-PORT ADDRESSES OUTLETS GATEWAY

5-10 421-426

11-14 427-430

15-18 431-434

STAGE LIGHTING DISTRIBUTION

* CONNECTOR STRIP LENGTHS ARE ESTIMATED. CONTRACTOR SHALL VERIFY LENGTH OF EXISTING CONNECTOR STRIPS PRIOR TO RELEASING.

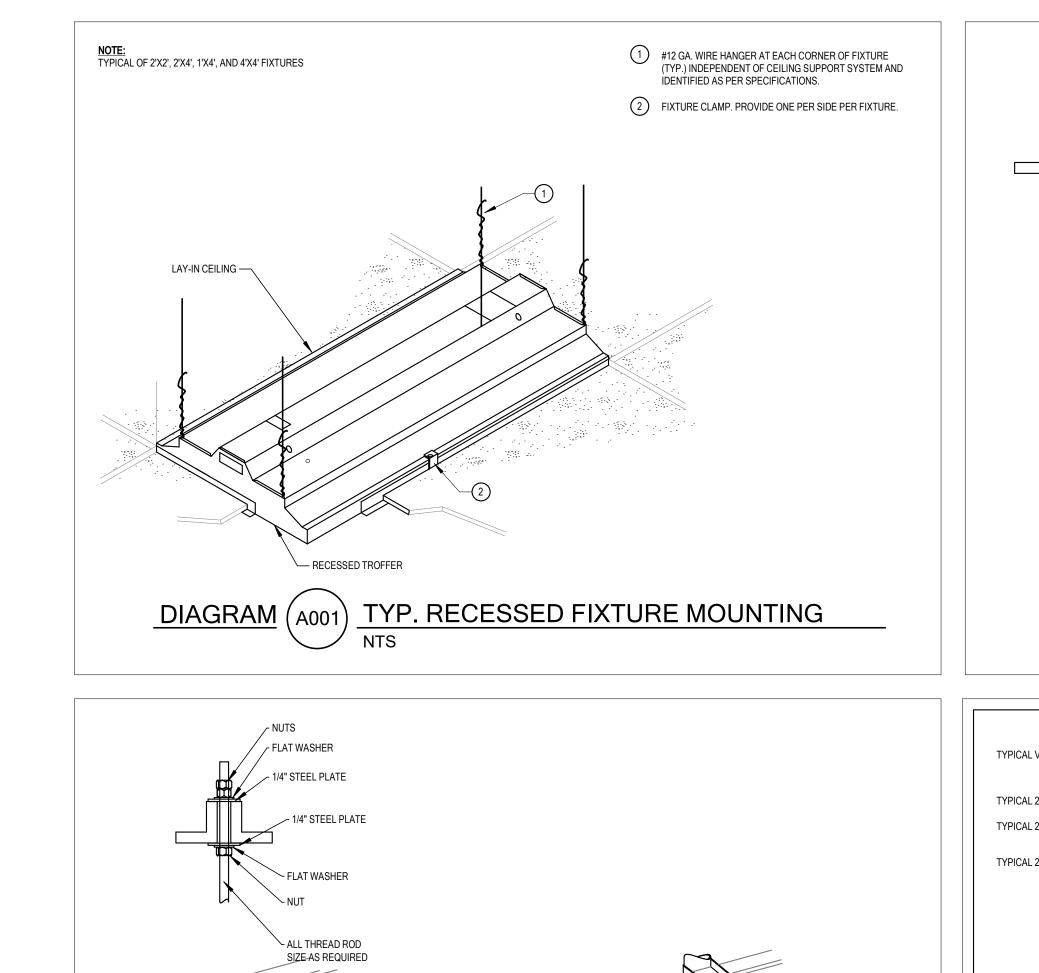
SCHEDULE
SCALE = 12" = 1'-0"

 FOH1
 CONNECTOR STRIP "A"
 24'
 4
 1-4
 417-420
 16
 1
 CIRCUITS NUMBERS TO BE REPEATED 4 TIMES

CIRCUITS NUMBERS TO BE REPEATED 4 TIMES

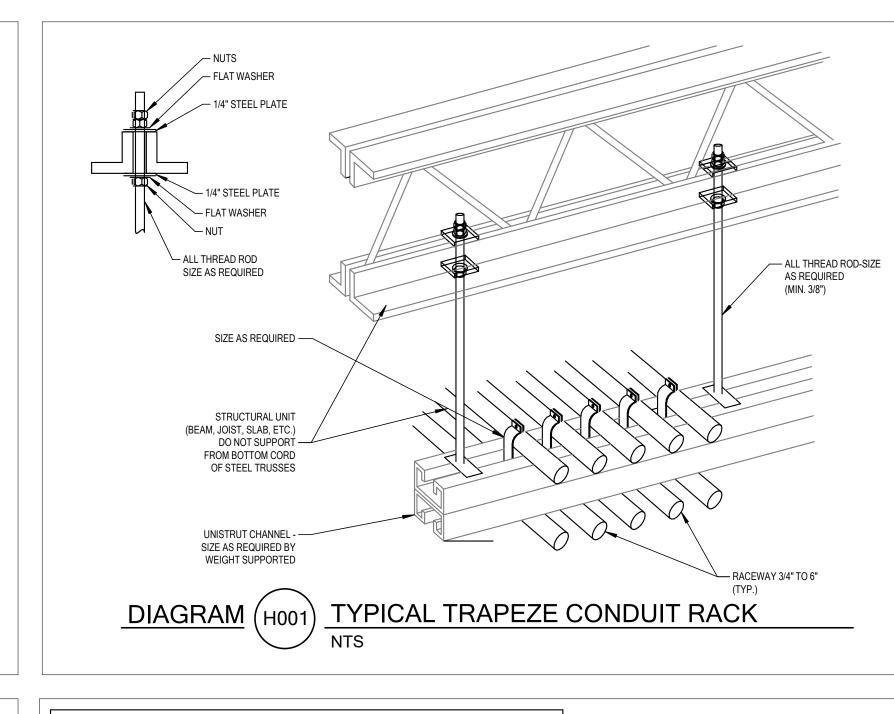
LOCATION

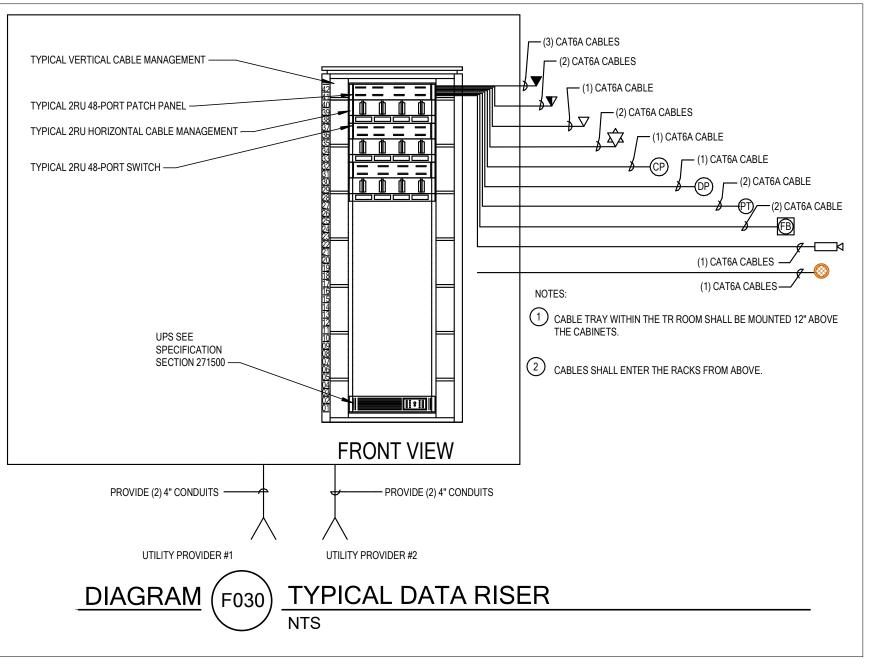
FOH2 CONNECTOR STRIP "B" 30'

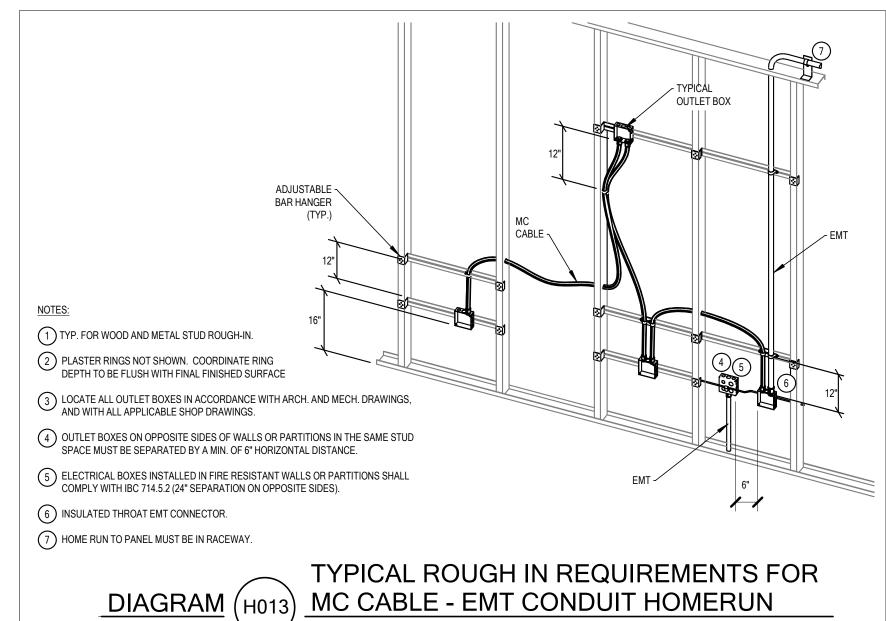


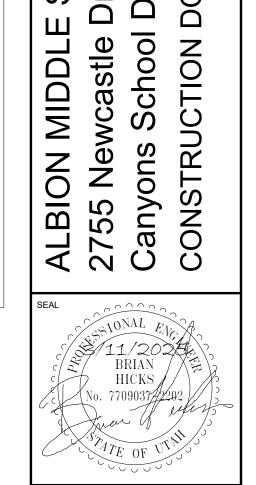
ALL THREAD - SIZE AS REQUIRED (3/8" MINIMUM)

DIAGRAM (H003) TYPICAL RACEWAY SUPPORT METHODS









ARCHITECTS

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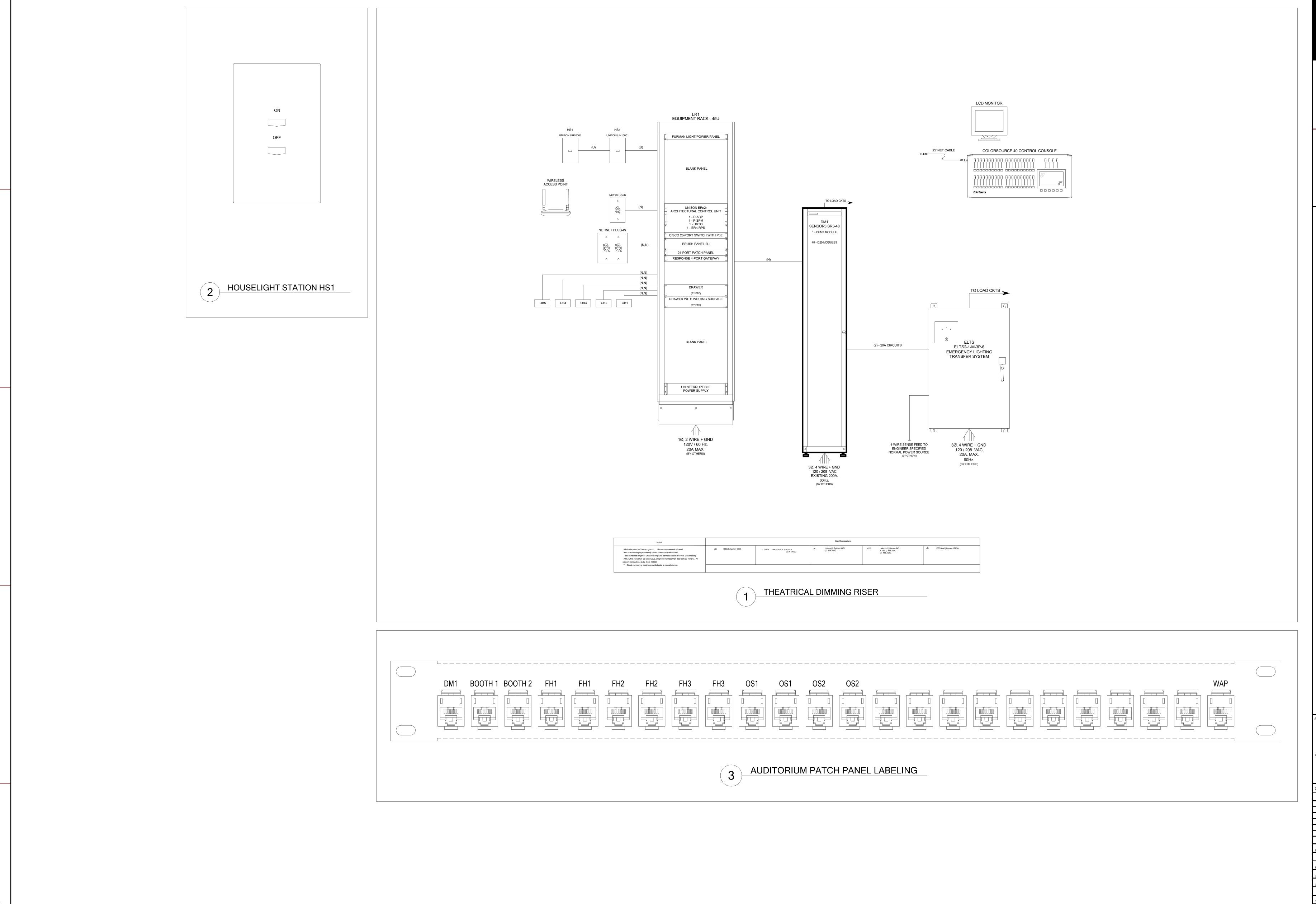
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DAT	ΓE	STATUS						
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PRO	PROJECT NUMBER 2500							
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BIM LEAD **ENGINEER**

SCALE As indicated

ELECTRICAL DIAGRAMS



ARCHITECTS

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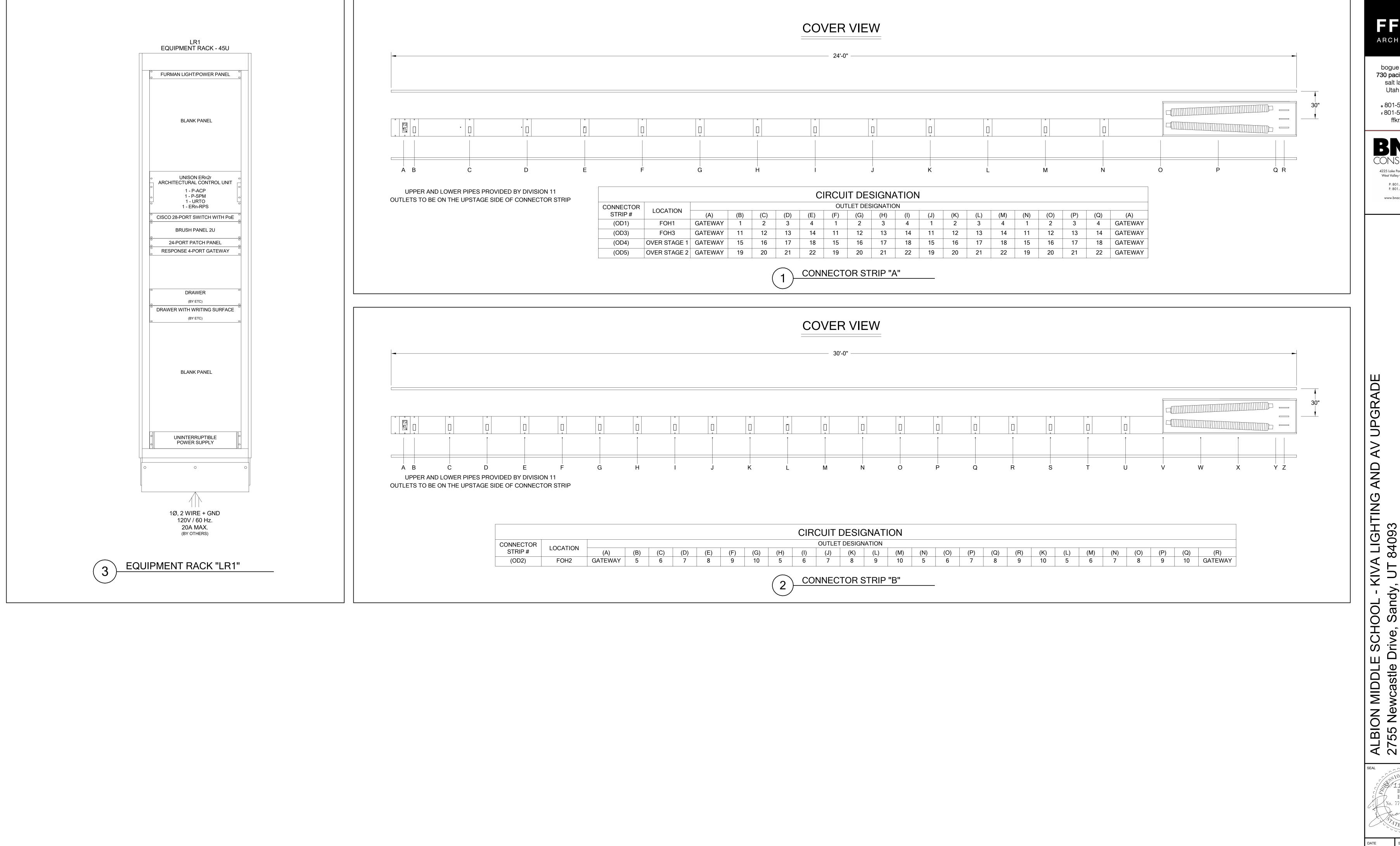
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BIM LEAD **ENGINEER**

THEATRICAL DIAGRAMS



ARCHITECTS

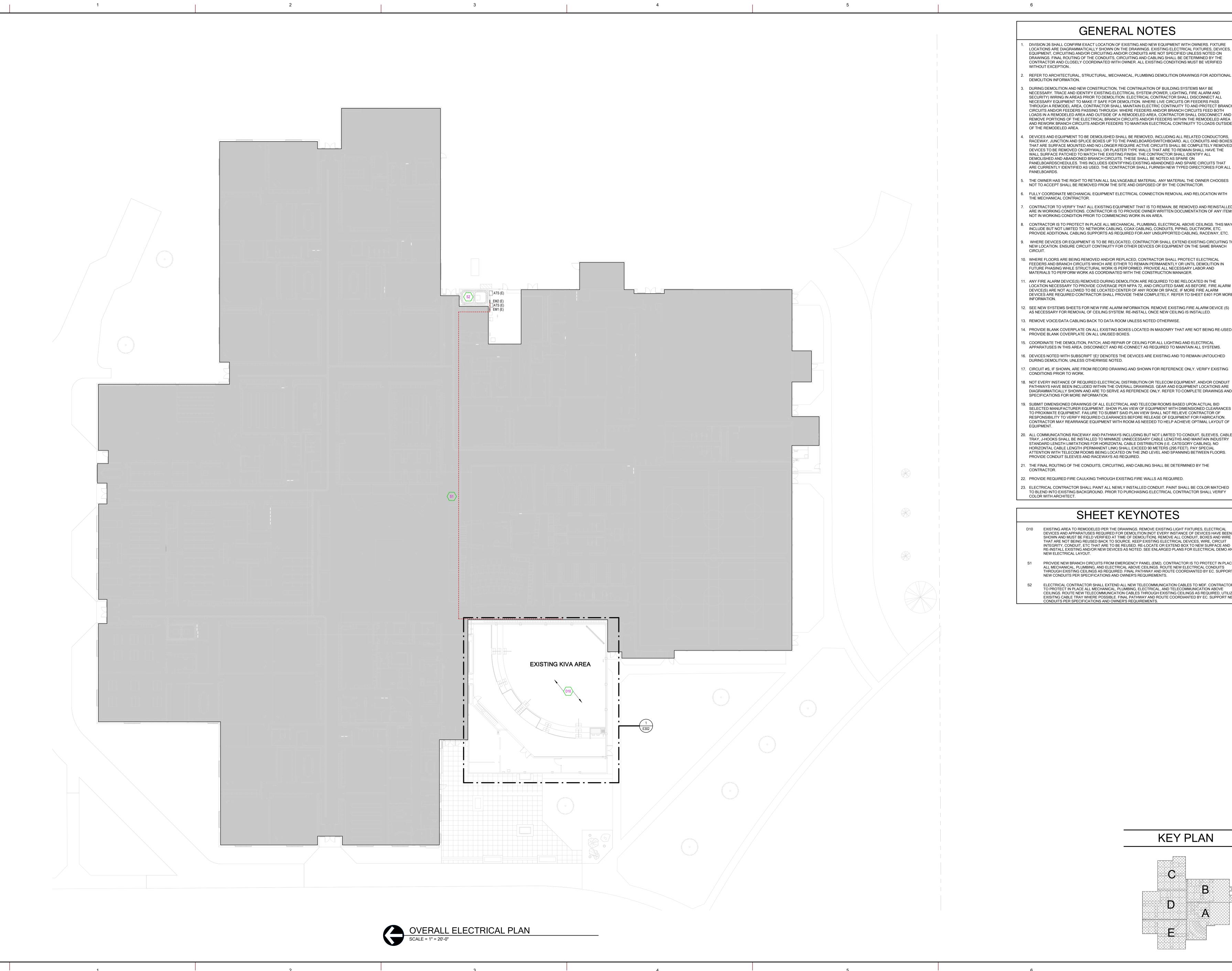
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THEATRICAL DIAGRAMS



GENERAL NOTES

DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES. EQUIPMENT, CIRCUITING AND/OR CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED

REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL

DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC CONTINUITY TO AND PROTECT BRANCH CIRCUITS AND/OR FEEDERS PASSING THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA.

DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARDSCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL

THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.

FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH

CONTRACTOR TO VERIFY THAT ALL EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED AND REINSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN DOCUMENTATION OF ANY ITEMS

CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS. THIS MAY INCLUDE BUT NOT LIMITED TO: NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK, ETC. PROVIDE ADDITIONAL CABLING SUPPORTS AS REQUIRED FOR ANY UNSUPPORTED CABLING, RACEWAY, ETC.

WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED. CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH

0. WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER.

I. ANY FIRE ALARM DEVICE(S) REMOVED DURING DEMOLITION ARE REQUIRED TO BE RELOCATED IN THE LOCATION NECESSARY TO PROVIDE COVERAGE PER NFPA 72, AND CIRCUITED SAME AS BEFORE. FIRE ALARM DEVICE(S) ARE NOT ALLOWED TO BE LOCATED CENTER OF ANY ROOM OR SPACE. IF MORE FIRE ALARM DEVICES ARE REQUIRED CONTRACTOR SHALL PROVIDE THEM COMPLETELY. REFER TO SHEET E401 FOR MORE

2. SEE NEW SYSTEMS SHEETS FOR NEW FIRE ALARM INFORMATION. REMOVE EXISTING FIRE ALARM DEVICE (S) AS NECESSARY FOR REMOVAL OF CEILING SYSTEM. RE-INSTALL ONCE NEW CEILING IS INSTALLED.

14. PROVIDE BLANK COVERPLATE ON ALL EXISTING BOXES LOCATED IN MASONRY THAT ARE NOT BEING RE-USED. PROVIDE BLANK COVERPLATE ON ALL UNUSED BOXES.

5. COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING FOR ALL LIGHTING AND ELECTRICAL APPARATUSES IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS.

16. DEVICES NOTED WITH SUBSCRIPT '(E)' DENOTES THE DEVICES ARE EXISTING AND TO REMAIN UNTOUCHED DURING DEMOLITION, UNLESS OTHERWISE NOTED.

CONDITIONS PRIOR TO WORK. 18. NOT EVERY INSTANCE OF REQUIRED ELECTRICAL DISTRIBUTION OR TELECOM EQUIPMENT, AND/OR CONDUIT PATHWAYS HAVE BEEN INCLUDED WITHIN THE OVERALL DRAWINGS, GEAR AND EQUIPMENT LOCATIONS ARE DIAGRAMMATICALLY SHOWN AND ARE TO SERVE AS REFERENCE ONLY. REFER TO COMPLETE DRAWINGS AND

SPECIFICATIONS FOR MORE INFORMATION. SELECTED MANUFACTURER EQUIPMENT. SHOW PLAN VIEW OF EQUIPMENT WITH DIMENSIONED CLEARANCES TO PROXIMATE EQUIPMENT. FAILURE TO SUBMIT SAID PLAN VIEW SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY TO VERIFY REQUIRED CLEARANCES BEFORE RELEASE OF EQUIPMENT FOR FABRICATION.

20. ALL COMMUNICATIONS RACEWAY AND PATHWAYS INCLUDING BUT NOT LIMITED TO CONDUIT, SLEEVES, CABLE TRAY, J-HOOKS SHALL BE INSTALLED TO MINIMIZE UNNECESSARY CABLE LENGTHS AND MAINTAIN INDUSTRY STANDARD LENGTH LIMITATIONS FOR HORIZONTAL CABLE DISTRIBUTION (I.E. CATEGORY CABLING). NO HORIZONTAL CABLE LENGTH (PERMANENT LINK) SHALL EXCEED 90 METERS (295 FEET). PAY SPECIAL ATTENTION WITH TELECOM ROOMS BEING LOCATED ON THE 2ND LEVEL AND SPANNING BETWEEN FLOORS.

1. THE FINAL ROUTING OF THE CONDUITS, CIRCUITING, AND CABLING SHALL BE DETERMINED BY THE

22. PROVIDE REQUIRED FIRE CAULKING THROUGH EXISTING FIRE WALLS AS REQUIRED.

23. ELECTRICAL CONTRACTOR SHALL PAINT ALL NEWLY INSTALLED CONDUIT. PAINT SHALL BE COLOR MATCHED TO BLEND INTO EXISTING BACKGROUND. PRIOR TO PURCHASING ELECTRICAL CONTRACTOR SHALL VERIFY

SHEET KEYNOTES

D10 EXISTING AREA TO REMODELED PER THE DRAWINGS. REMOVE EXISTING LIGHT FIXTURES, ELECTRICAL DEVICES AND APPARATUSES REQUIRED FOR DEMOLITION [NOT EVERY INSTANCE OF DEVICES HAVE BEEN SHOWN AND MUST BE FIELD VERIFIED AT TIME OF DEMOLITION]. REMOVE ALL CONDUIT, BOXES AND WIRE THAT ARE NOT BEING REUSED BACK TO SOURCE. KEEP EXISTING ELECTRICAL DEVICES, WIRE, CIRCUIT INTEGRITY, CONDUIT, ETC THAT ARE TO BE REUSED. RE-LOCATE OR EXTEND BOX TO NEW SURFACE AND RE-INSTALL EXISTING AND/OR NEW DEVICES AS NOTED. SEE ENLARGED PLANS FOR ELECTRICAL DEMO AND

PROVIDE NEW BRANCH CIRCUITS FROM EMERGENCY PANEL (EM2). CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, AND ELECTRICAL ABOVE CEILINGS. ROUTE NEW ELECTRICAL CONDUITS THROUGH EXISTING CEILINGS AS REQUIRED. FINAL PATHWAY AND ROUTE COORDIANTED BY EC. SUPPORT NEW CONDUITS PER SPECIFICATIONS AND OWNER'S REQUIREMENTS.

ELECTRICAL CONTRACTOR SHALL EXTEND ALL NEW TELECOMMUNICATION CABLES TO MDF. CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL, AND TELECOMMUNICATION ABOVE CEILINGS. ROUTE NEW TELECOMMUNICATION CABLES THROUGH EXISTING CEILINGS AS REQUIRED, UTILIZE EXISITNG CABLE TRAY WHERE POSSIBLE. FINAL PATHWAY AND ROUTE COORDIANTED BY EC. SUPPORT NEW CONDUITS PER SPECIFICATIONS AND OWNER'S REQUIREMENTS.

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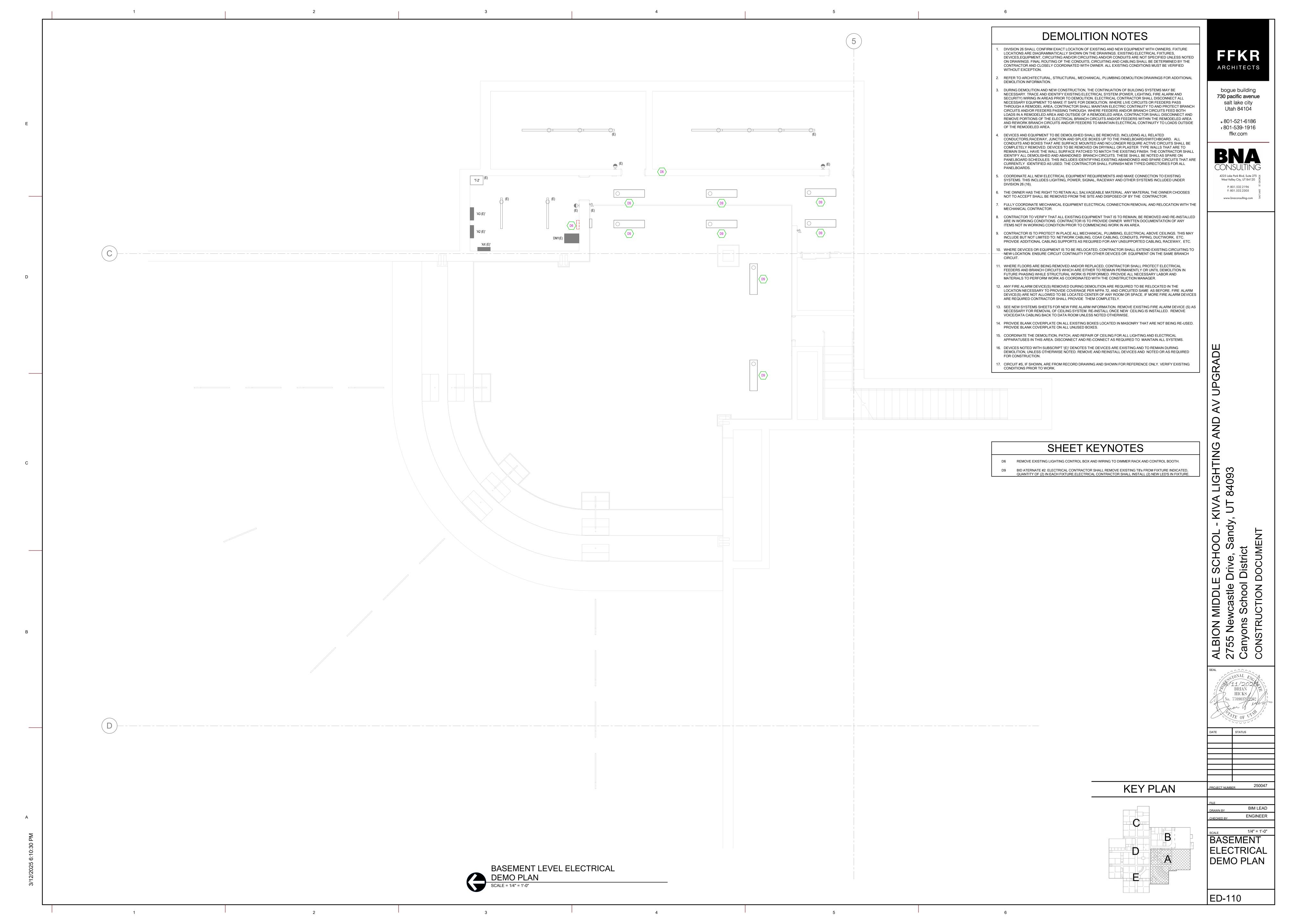
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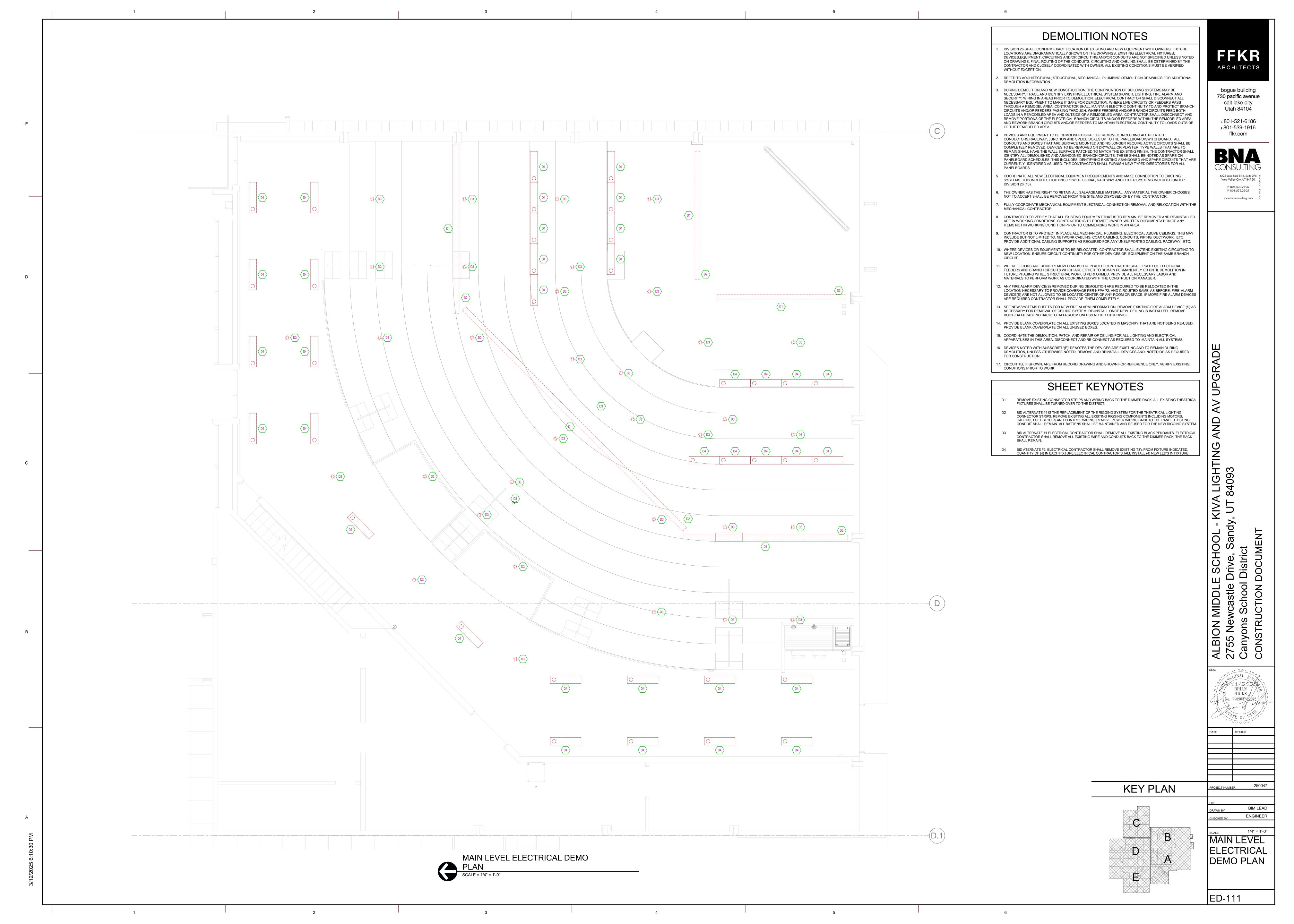
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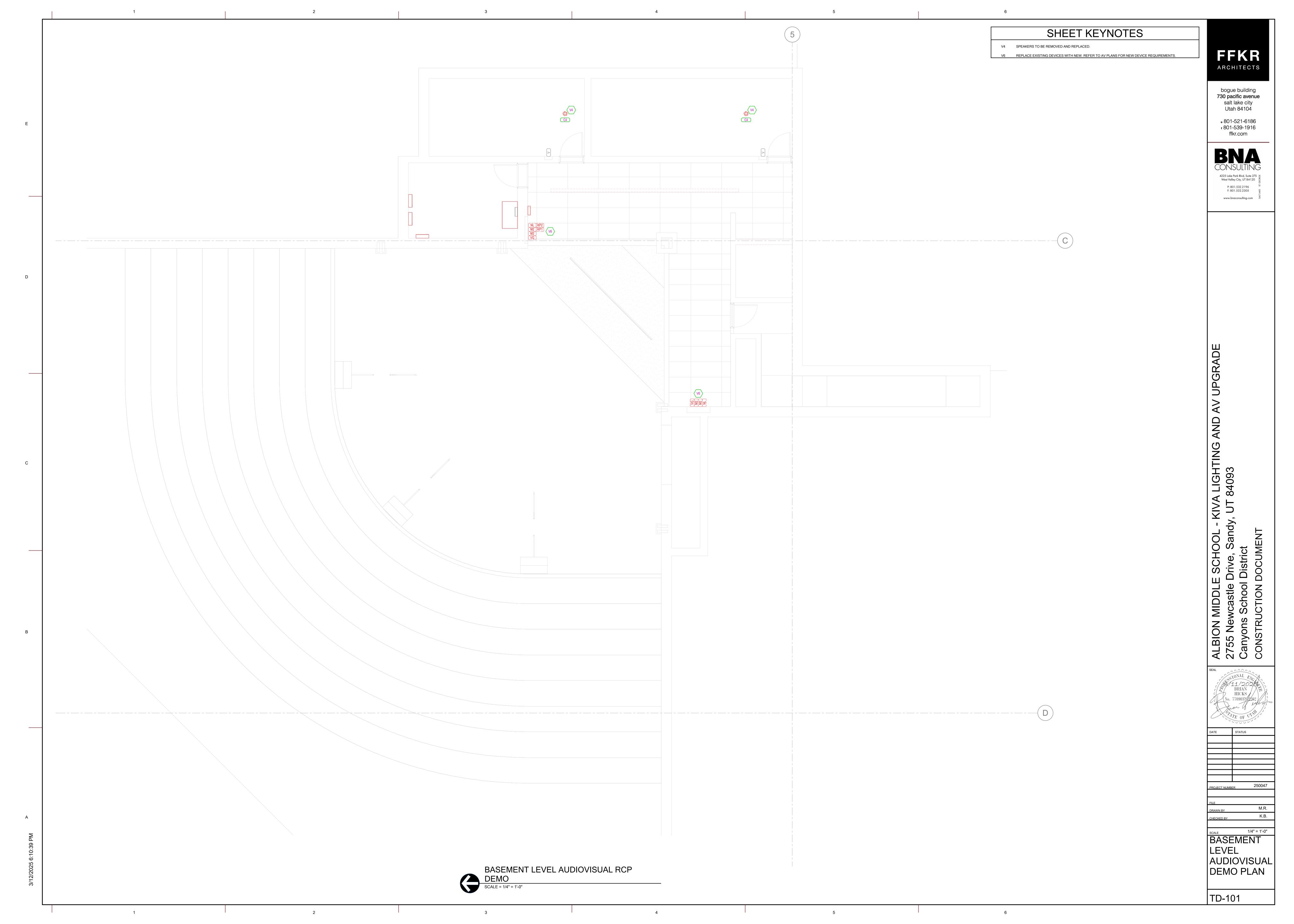
KEY PLAN

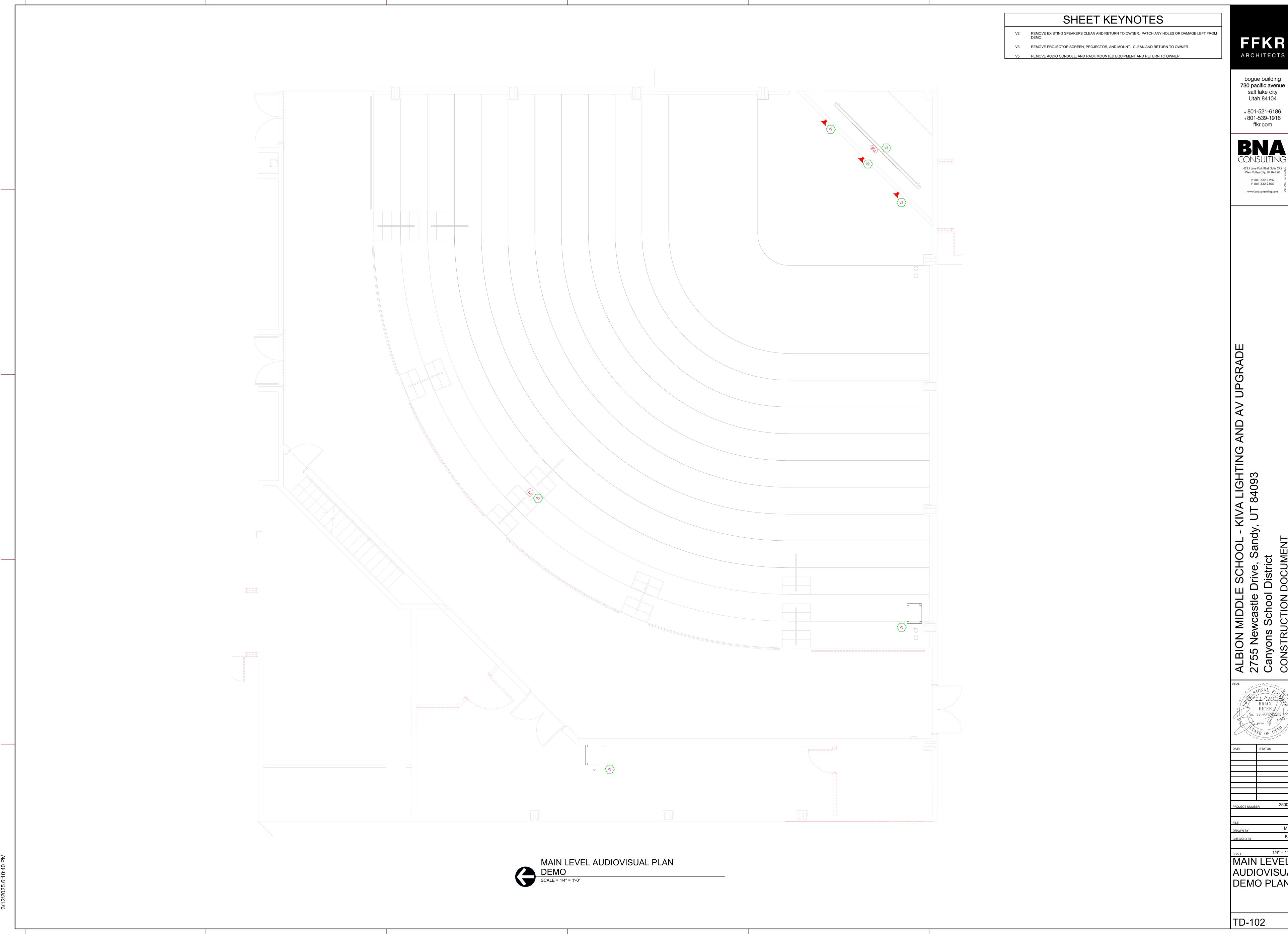
OVERALL

ELECTRICAL PLAN









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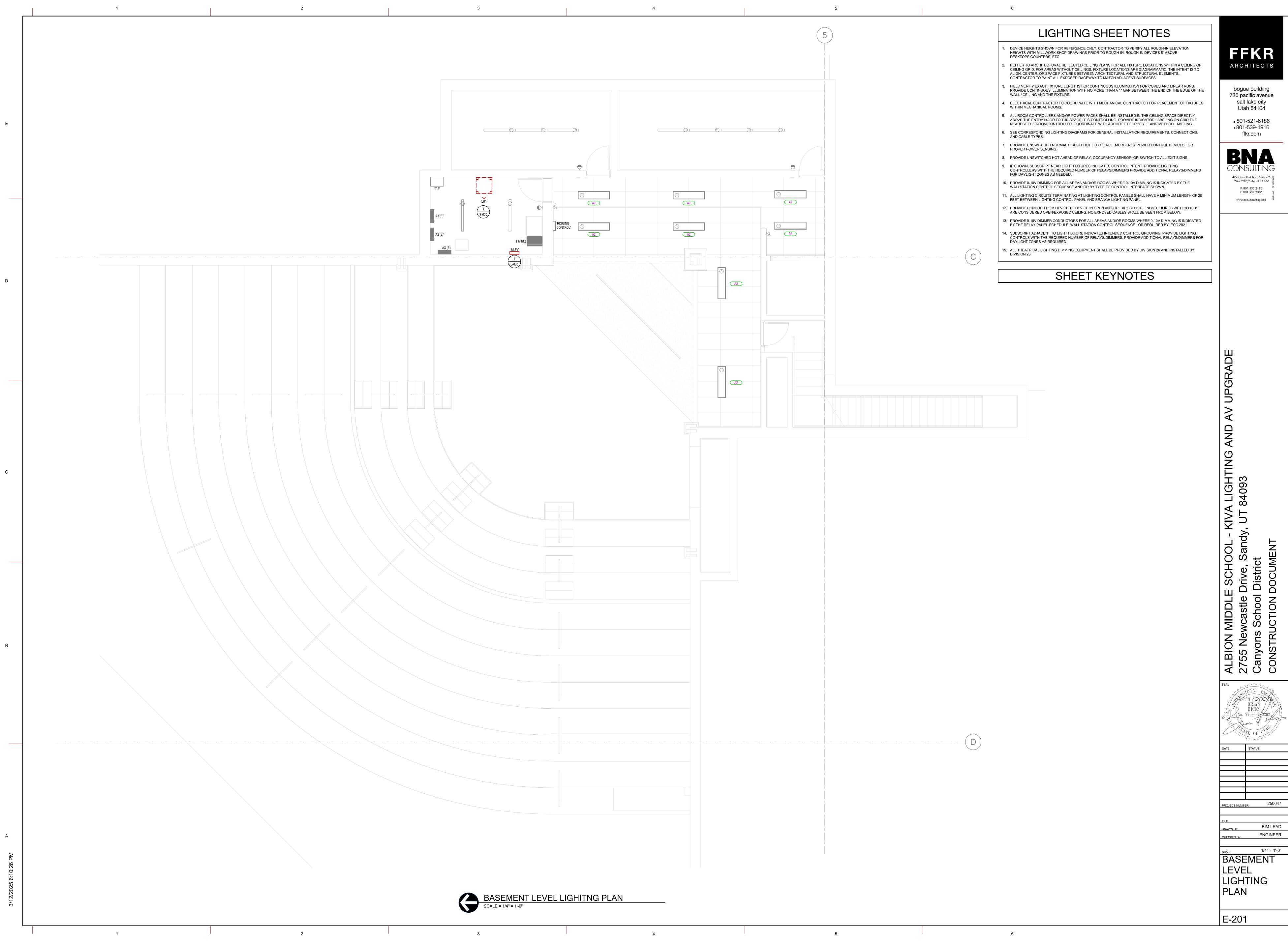
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MAIN LEVEL
AUDIOVISUAL
DEMO PLAN



LIGHTING SHEET NOTES

- DEVICE HEIGHTS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL ROUGH-IN ELEVATION HEIGHTS WITH MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. ROUGH-IN DEVICES 6" ABOVE DESKTOPS, COUNTERS, ETC.
- REFFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS... CONTRACTOR TO PAINT ALL EXPOSED RACEWAY TO MATCH ADJACENT SURFACES.
- FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES AND LINEAR RUNS. PROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 1" GAP BETWEEN THE END OF THE EDGE OF THE WALL / CEILING AND THE FIXTURE.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES
- ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIRECTLY ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING. PROVIDE INDICATOR LABELING ON GRID TILE
- NEAREST THE ROOM CONTROLLER. COORDINATE WITH ARCHITECT FOR STYLE AND METHOD LABELING. SEE CORRESPONDING LIGHTING DIAGRAMS FOR GENERAL INSTALLATION REQUIREMENTS, CONNECTIONS, AND CABLE TYPES.
- PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING.
- . PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIT SIGNS.
- IF SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTROLLERS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS NEEDED.
- 0. PROVIDE 0-10V DIMMING FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE WALLSTATION CONTROL SEQUENCE AND OR BY TYPE OF CONTROL INTERFACE SHOWN.
- I. ALL LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
- 2. CAREFULLY COORDINATE FIXTURE PLACEMENT WITHIN BAFFLED CEILINGS. PENDANT MOUNTING FIXTURE SHALL BE MOUNTED AT THE SAME ELEVATION AS BAFFLES. COORDINATE WITH ARCHITECTURAL RCP AND
- DETAILS PRIOR TO ROUGH-IN. 3. PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS, CEILINGS WITH CLOUDS
- ARE CONSIDERED OPEN/EXPOSED CEILING. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW. 14. ALL UNDERCABINET LIGHTS MUST BE COORDINATED WITH MILLWORK FOR EXACT LENGTHS. COORDINATE WITH MILLWORK SHOP DRAWINGS.
- 5. PROVIDE 0-10V DIMMER CONDUCTORS FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE RELAY PANEL SCHEDULE, WALL STATION CONTROL SEQUENCE., OR REQUIRED BY IECC 2021.
- 6. SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES INTENDED CONTROL GROUPING, PROVIDE LIGHTING CONTROLS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS. PROVIDE ADDITIONAL RELAYS/DIMMERS FOR
- . MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 LIGHTING CONTROLS SHALL BE ACCOUNTABLE FOR THE COMPREHENSIVE LIGHTING CONTROLS PACKAGE'S FINALIZATION IN ALIGNMENT WITH THE DESIGN INTENT DEPICTED IN THE DRAWINGS AND SPECIFICATIONS AND COMPLYING WITH IECC 2021 REQUIREMENTS. THE LIGHTING REPRESENTATIVE IS REQUIRED TO DEVELOP DETAILED SHOP DRAWINGS DEMONSTRATING THE LIGHTING CONTROL SYSTEM'S TOPOLOGY AND THE ESSENTIAL CONNECTIONS NECESSARY FOR ITS PROPER FUNCTIONING. LIGHTING CONTROL DEVICES SHOWN ARE TO PROVIDE GENERAL INTENT ONLY. MANUFACTURE'S REPRESENTATIVE TO PROVIDE ALL ADDITIONAL DEVICES AND MODIFY DEVICE LOCATIONS AS REQUIRED TO MEET IECC 2021 REQUIREMENTS.
- 18. ALL THEATRICAL LIGHTING DIMMING EQUIPMENT SHALL BE PROVIDED BY DIVISION 11 AND INSTALLED BY DIVISION 26. DIVISION 26 CONTRACTOR SHALL REFER TO THE 'TH' SERIES OF DRAWINGS FOR THEATRICAL DIMMING SYSTEM AND DISTRIBUTION REQUIREMENTS. REFER TO SHEET E003 FOR REPOSIBILITY MATRIX FOR THEATRICAL SYSTEM. DIVISION 26 AND DIVISON 11 SHALL COORDINATE TOGETHER TO ENSURE ALL DEVICES. BACK BOXES, CONDUIT, WIRING AND EQUIPMENT ARE AVAILBLE AND READY FOR INSTALLATION AS NEEDED FOR A TIMELY INSTALLATION.

SHEET KEYNOTES

- BID ALTERNATE #3: ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW CONDUIT, FEEDERS AND FIXTURE AT LOCATIONS INDICATED.
- L2 EXISTING WHITE PENDANTS TO REMAIN. CIRCUIT AS INDICATED.

DAYLIGHT ZONES AS REQUIRED.

PROVIDE NEW LIGHTING CONTROL KEYPADS. CONTRACTOR TO VERIFY EXISTING LIGHTING CONTROL KEYPADS ARE CONNECTED TO THE SYSTEM PRIOR TO PURCHASING NEW KEYPADS.

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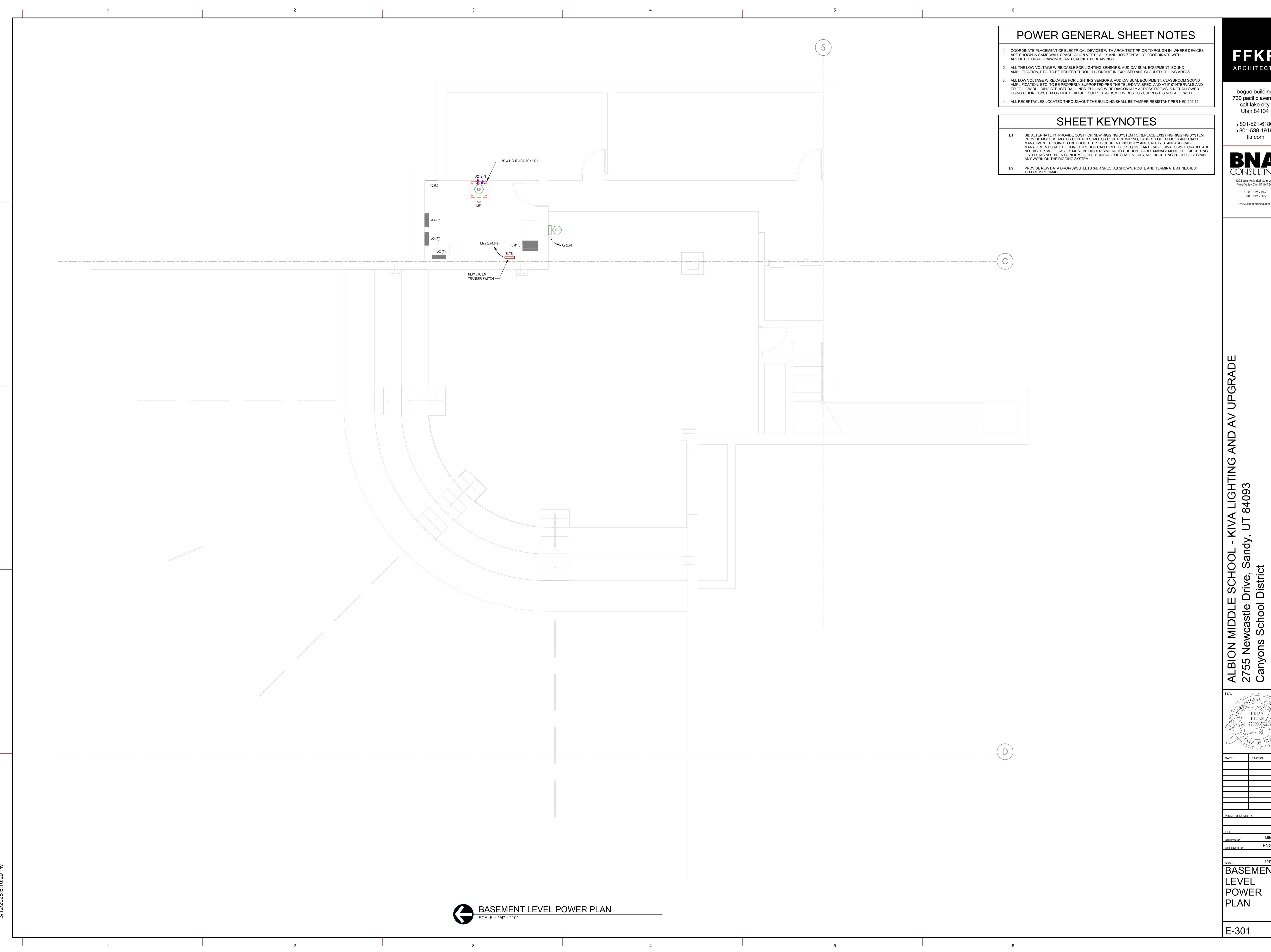
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SCALE 1/4" = 1'-0"

MAIN LEVEL

LIGHTING PLAN



ARCHITECTS

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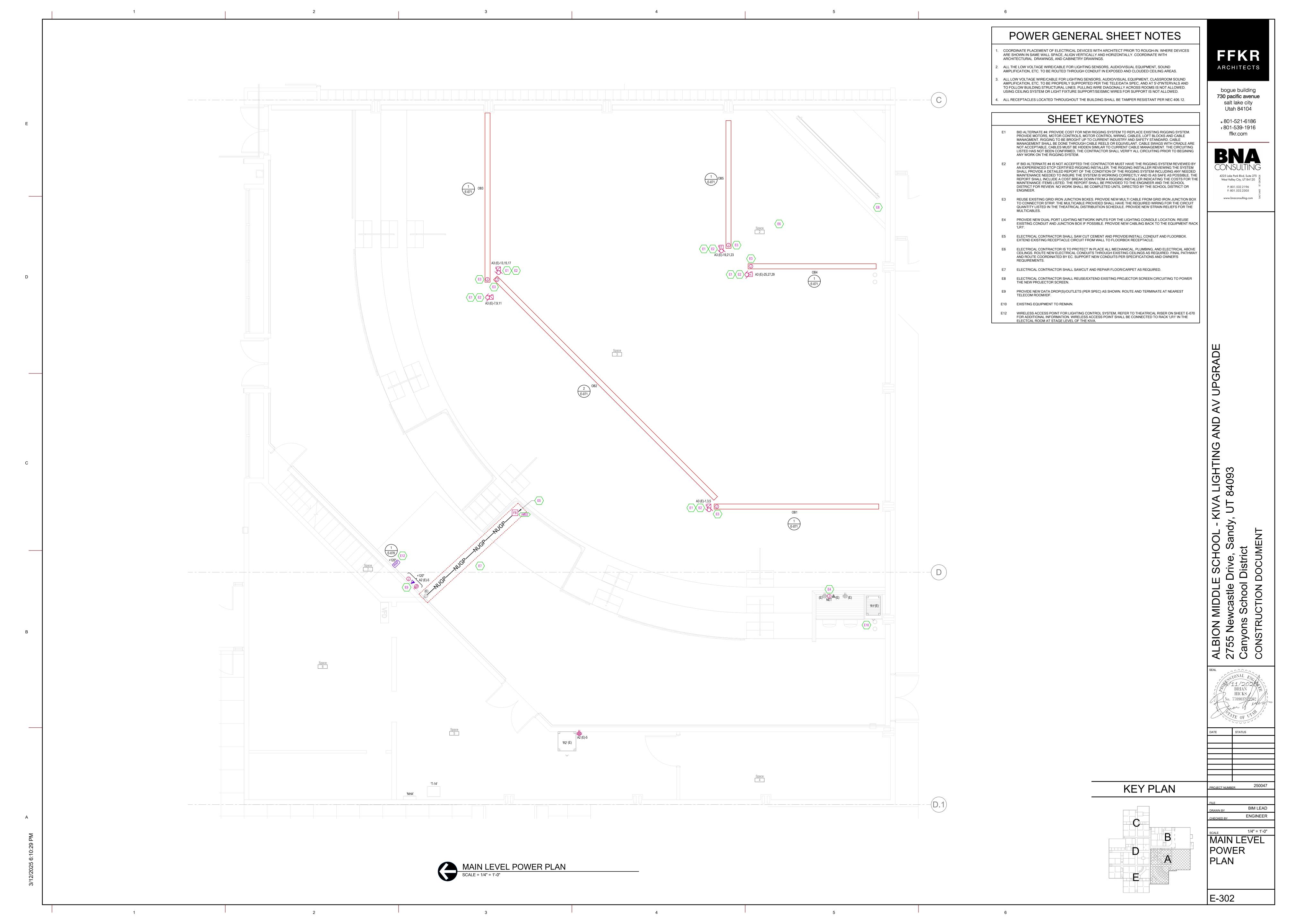
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DATE	STATUS
	250047

SCALE 1/4" = 1'-0"

BASEMENT



CABLING GROUPS AND CONDUIT SEPARATION SCHEDULE

AUDIO AND VIDEO SYSTEM WIRING IS DIVIDED INTO WIRING GROUPS ACCORDING TO THEIR NOMINAL LEVELS:

GROUP WIRING TYPE GROUP 1 FIBER OPTIC CABLE O mV TO 100 mV SIGNALS, EXAMPLE: MICROPHONE LEVEL SIGNAL **GROUP 2** GROUP 3 100 mV TO 10 V SIGNALS, EXAMPLE: LINE-LEVEL SIGNAL **GROUP 4** 10 V TO 70 V SIGNALS, EXAMPLE: SPEAKER LEVEL SIGNAL

CONTROL, DIGITAL CIRCUITS, DATA AND VIDEO NOTE: GROUPS LISTED ABOVE SHALL NEVER BE COMBINED WITHIN THE SAME CONDUIT

AUDIO AND VIDEO CONDUIT SEPARATION MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING WIRING OF DIFFERENT AUDIO AND VIDEO **GROUPS IS AS FOLLOWS:**

GROUP	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5		
GROUP 1	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT		
GROUP 2	ADJACENT	ADJACENT	6"	12"	12"		
GROUP 3	ADJACENT	6"	ADJACENT	12"	6"		
GROUP 4	ADJACENT	12"	12"	ADJACENT	6"		
GROUP 5	ADJACENT	12"	6"	6"	ADJACENT		
NOTE: NINETY DEGREE CROSSING IN CLOSE PROXIMITY IS PERMITTED.							

ELECTRICAL CONDUIT SEPARATION

MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING AUDIO AND VIDEO WIRING AND OTHER **ELECTRICAL SERVICE CONDUIT IS AS FOLLOWS:**

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5
ADJACENT	24"	24"	24"	24"
ADJACENT	24"	12"	12"	24"
	ADJACENT	ADJACENT 24" ADJACENT 24"	ADJACENT 24" 24" ADJACENT 24" 12"	ADJACENT 24" 24" 24"

AUDIOVISUAL CABLE AND CONDUIT SCHEDULE

APPROVED EQUALS FROM OTHER MANUFACTURERS ARE BELDEN, GEPCO/GENERAL, ICE, KRAMER, EXTRON, CRESTRON, LIBERTY CABLE, AND WINDY CITY WIRE. PROVIDE PLENUM RATED CABLES IN ANY "AIR HANDLING" SPACES E.G. ABOVE CEILINGS, RAISED FLOORS, CHASES, ETC CABLE QUANTITY INDICATED ON DRAWINGS SHOWS ON FINAL RUN. IF NOT NOTED PROVIDE CABLING FOR SINGLE CONDUIT REQUIREMENTS SHOWN ARE MINIMUM CONDUIT SIZE REQUIRED FOR A SINGLE CABLE. UNLESS OTHERWISE NOTED ON DRAWINGS. NUMBER OF CABLES LISTED IS THE MAXIMUM AMOUNT ALLOWED FOR CONDUIT SIZE INDICATED WHEN COMBINING CABLE TYPES OF THE SAME GROUP, THE TYPE WITH THE LARGEST CONDUIT REQUIREMENT DICTATES CONDUIT SIZE. PROVIDE ON ALL HDMI CABLES LONGER THAN 35' OR WITH MORE THAN (3) CONNECTION POINTS (1) ACTIVE HDMI ALL CATEGORY CABLE SHALL BE TESTED AND CERTIFIED TO ANSI/TIA/EIA-568C AND IEEE 802.3an STANDARDS USING A LEVEL IIIe TESTER. REFER TO SPECIFICATIONS FOR STP CABLE REQUIREMENTS. ALL UNSHIELDED (UTP) CATEGORY CABLES WITHIN THE PROJECT SHALL BE SUPPLIED FROM A SINGLE MANUFACTURER AND MATCH MAKE/MODEL. HDMI CABLES ARE INTENDED TO PASS 4K 60 4:4:4 FROM SOURCE TO DESTINATION. CONTRACTOR TO VERIFY THE LENGTH OF ALL CABLES USED MEET THIS REQUIREMENT. INDICATES DEFAULT CABLE IF MANUFACTURER DOES NOT RECOMMEND A SPECIFIC CABLE.

CABLE TYPE	DESCRIPTION	CONDUIT REQUIREMENTS	MANUFACTURER	MODEL NUMBER	GRO
		1" CONDUIT = (7) CABLES 1 1/2" CONDUIT = (12) CABLES	WEST PENN	807 *	5
		1" CONDUIT = (7) CABLES 1 1/4" CONDUIT = (12) CABLES	WEST PENN	77350 * D25350 (P) *	5
		1 1/4" CONDUIT = (1) CABLES 2" CONDUIT = (3) CABLES	EXTRON CRESTRON	HDMI ULTRA/## CBL-HD-##	5
(#)HD	HDMI > 20'	1 1/4" CONDUIT = (1) CABLES 2" CONDUIT = (3) CABLES	EXTRON KRAMER	HDMI PRO P/XX CP-HM/HM/ETH (P)	5
(#)LA (#)MA	LINE LEVEL, 22 AWG MICROPHONE, 22 AWG	1" CONDUIT = (23) CABLES 1 1/2" CONDUIT = (77) CABLES	WEST PENN	291 D25454 (P)	3 2
(#)MFB MULTIMODE FIBER OPTIC		1" CONDUIT MINIMUM	PER SPEC	27 1500	1
(#)RG6 RG-6 COAXIAL CABLE		1" CONDUIT = (8) CABLES 1 1/2" CONDUIT = (18) CABLES	WEST PENN	841 25841 (P)	5
(#)RG11 RG-11 COAXIAL CABLE		1" CONDUIT = (3) CABLES 1 1/4" CONDUIT = (6) CABLES	WEST PENN	821 D25821 (P)	5
(#)S12 SPEAKER, 12 AWG		1" CONDUIT = (3) CABLES 1 1/2" CONDUIT = (7) CABLES 2" CONDUIT = (11) CABLES	WEST PENN	227 25227B (P)	4
(#)S16 SPEAKER, 16 AWG		1" CONDUIT = (10) CABLES 1 1/4" CONDUIT = (17) CABLES	WEST PENN	225 25225B (P)	4
(#)SFB	SINGLE MODE FIBER OPTIC	1" CONDUIT MINIMUM	PER SPEC	27 1500	1
(#)STP SHIELDED TWISTED PAIR, CAT 6A		1" CONDUIT = (4) CABLES 1 1/4" CONDUIT = (8) CABLES	PER MFG WEST PENN	4246AF * 254246AF (P) *	5
(#)UTP UN-SHIELDED TWISTED PAIR CAT 6		1" CONDUIT = (9) CABLES 1 1/4" CONDUIT = (15) CABLES	PER SPEC WEST PENN	4246 ** 254246 (P) ** SPEC 27 1500	5
(#)VG HIGH RESOLUTION VIDEO		HIGH RESOLUTION VIDEO 1" CONDUIT = (1) CABLES 1 1/4" CONDUIT = (4) CABLES WEST PENN		5CRGB 255CRGB (P)	5
(#)SDI SERIAL DIGITAL INTERFACE (RG-6 COAX)		1" CONDUIT = (8) CABLES 1 1/2" CONDUIT = (18) CABLES	WEST PENN	841 25841 (P)	5
(#)USB USB EXTENSION CABLE		1" CONDUIT = (3) CABLES 1 1/4" CONDUIT = (10) CABLES	CABLES TO GO	52108	5
(#)X#	MANUFACTURER PROPRIETARY CABLE	AS NOTED	SPEC. 27 4100	SPEC. 27 4100	N/

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MEP	MECHANICAL, ELECTRICAL AND PLUMBING
AFF	ABOVE FINISH FLOOR	MFG	MANUFACTURER
ARCH	ARCHITECTURE	MAX	MAXIMUM
AUX	AUXILIARY	MIC	MICROPHONE
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
BC	BARE COPPER	MTG	MOUNTING
С	CONDUIT	N/A	NOT APPLICABLE
CATV	CABLE TELEVISION	NIC	NOT IN CONTRACT
CLG	CEILING	NTS	NOT TO SCALE
CNTR	CONTRACTOR	PLEN	PLENUM
CU	COPPER	(R)	RELOCATE
C/W	COMPLETE WITH	RECPT	RECEPTACLE
DWG	DRAWING	SPEC	SPECIFICATIONS
(E)	EXISTING	SPKR	SPEAKER
FT	FOOT	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
IG	ISOLATED GROUND	UG	UNDERGROUND
IN	INCH	UPS	UNINTERRUPTED POWER SUPPLY
J-BOX	JUNCTION BOX	W	WATTS
LTG	LIGHTING	W/O	WITHOUT

AUDIOVISUAL SYMBOL LEGEND

GENERAL SCHEDULE NOTES:

MOUNTING

J-BOX CONDUIT

HEIGHT MEASURED TO BOTTOM OF THE DEVICE FROM FINISHED A. TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS. HEIGHT MEASURED TO CENTER LINE OF THE DEVICE FROM THE DEVICES WITH "A" ADJACENT TO IT INDICATE DEVICE TO BE COORDINATED WITH MILLWORK PRIOR TO ROUGH-IN. FINISHED FLOOR. REFER TO DIAGRAMS AND ELEVATIONS FOR CUSTOM ROUGH-IN ROUGH-IN JUNCTION BOX, CONDUIT, AND MOUNTING HEIGHT ARE

DEFAULT REQUIREMENTS. REFER TO PLANS FOR SPECIFIC NOTES REQUIREMENTS. STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON AND REQUIREMENTS FOR A SPECIFIC INSTANCE. . CONDUIT STUBBED INTO ACCESSIBLE CEILING UNLESS OTHERWISE ROUGH-IN TO BE HORIZONTAL. E. CABLE FROM DEVICE TO BE HOMERUN TO DESTINATION WITHOUT ROUGH-IN TO BE INSTALLED ABOVE ACCESSIBLE CEILING.

DEVICE IS TYPICALLY LOCATED IN MILLWORK, FURNITURE, BEHIND A MONITOR OR ABOVE A PROJECTOR. ABOVE TABLE/COUNTER MOUNTED DEVICE. REFER TO MANUFACTURER'S RECOMMENDED CABLE REQUIREMENTS FOR EXACT CABLE REQUIRED. FOLLOW BICSI STANDARDS FOR CABLE ROUTING AND DISTANCES.

ROUGH-IN TO BE INSTALLED ABOVE CEILING.

CONDUIT STUB LOCATION CONDUIT/CIRCUIT CONTINUATION

DEVICE/EQUIPMENT TYPE CALLOUT

DIAGRAM CALLOUT TAG

ELEVATION VIEW TAG (# = VIEW NUMBER, ## = SHEET NUMBER)

SYMBOL	DESCRIPTION
DIFFEI 13. MOUN	RENT FROM INDICATED. TING HEIGHT SHOWN IS FROM THE BOTTOM OF THE MONITOF E FINISHED FLOOR.
	'ION BOX INDICATED IS FOR MOST INSTALLATIONS. DEVICE W TED WHEN JUNCTION BOX SIZE REQUIREMENTS ARE

					IILIGIII		
	M1 M2	MICROPHONE INPUT, WALL PLATE (M1/M2 = D1, M3/M4 = D2)	D1,D2	(1) 3/4"	RECEPTACLE HEIGHT	(#) MA	2,4.
	NL	SPEAKER CONNECTION PLATE, WALL PLATE	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) S14	2,4.
	TTS	AUDIO OUTPUT, WALL PLATE (T = XLR MALE CONNECTION, TS = 1/4 TS CONNECTION)	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) LA	2,4.
	MA	MICROPHONE INPUT WITH AUXILIARY INPUT, WALL PLATE	D1	(1) 3/4"	RECEPTACLE	(1) MA	2,4.
	(MC#)	MICROPHONE, CEILING ARRAY, INPUT, OR STANDARD		. ,	HEIGHT	(1) LA	
	(MC1) (MC2)	(# = INIDICATES TYPE)	D1	(1) 3/4"	CEILING	(1) MA	2,4.
	MB	TABLE TOP BOUNDARY MICROPHONE		(1) 1/2"	ON TABLE/ MILLWORK	(1) MA	2,3,9.
	MW	WALL MOUNTED MICROPHONE	D1	(1) 3/4"	SWITCH HEIGHT	(1) MA	2,4.
	MXT	MICROPHONE AND AUXILIARY INPUT, WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D2	(1) 1"	RECEPTACLE HEIGHT	(1) UTP	2,4,11.
	MT	DUAL MICROPHONE INPUT/OUTPUT WALL PLATE,	D1	(1) 1"	RECEPTACLE HEIGHT	(1) UTP	2,4,11.
	(M2D)	UTP TRANSMITTER AUDIO ENCODER DUAL MICROPHONE INPUT/OUTPUT WALL PLATE,	D2	(1) 1"	RECEPTACLE	(1) UTP	2,4,11.
	(M4D)	UTP TRANSMITTER AUDIO ENCODER FOUR MICROPHONE INPUT WALL PLATE,	D2	(1) 1"	HEIGHT RECEPTACLE	(1) UTP	2,4,11.
		UTP TRANSMITTER AUDIO ENCODER BLUETOOTH AND AUXILIARY INPUT, WALL PLATE,	D2		HEIGHT	` '	
	BXT	UTP TRANSMITTER AUDIO ENCODER		(1) 1"	SWITCH HEIGHT	(1) UTP	2,4,11.
	BT	BLUETOOTH, WALL PLATE, AUDIO EXTENDER	D1	(1) 1"	SWITCH HEIGHT RECEPTACLE	(1) UTP	2,4,11.
	VG	VGA INPUT, WALL PLATE	D1	(1) 1 1/4"	HEIGHT	(1) VG	2,4.
	HD	HDMI INPUT, WALL PLATE	D1	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) HD (1) LA	2,4.
J	HV	HDMI AND VGA INPUT, WALL PLATE	D2	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) HD (1) VG	2,4.
7	EN1	AVoIP ENCODER, WALL PLATE (# IDENTIFIES UNIQUE PLATES)	SCH	(1) 1"		(1) UTP	2,4,11.
	DC1	AVoIP DECODER, WALL PLATE (# IDENTIFIES UNIQUE PLATES)	SCH	(1) 1"		(1) UTP	2,4,11.
	ТхН	HDBaseT, HDMI INPUT TRANSMITTER, WALL PLATE	D1	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
4	TxD	HDBaseT, HDMI AND VGA TRANSMITTER, WALL PLATE	D2	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
	(TxM)	HDBaseT, HDMI, DISPLAY PORT AND/OR VGA TRANSMITTER BOX,			IN MILLWORK/	(1) STP	2,4,11.
	(TxT)	SURFACE MOUNTED HDBaseT CATEGORY INPUT, WALL PLATE	D1	(1) 1"	UNDER TABLE RECEPTACLE	(1) STP	2,4,11.
	(RxH)		D1	. ,	HEIGHT AS NOTED	(1) STP	2,4,11.
		HDBaseT, HDMI RECEIVER, WALL PLATE USB INPUT, WALL PLATE, UTP EXTENDER,		(1) 1"	RECEPTACLE	` '	
		(# = INDENTIFIES UNIQUE PLATE)	D1	(1) 1"	HEIGHT	(1) STP	2,4,11.
	Rx Tx	HDBaseT DEVICE, SURFACE MOUNTED T = TRANSMITTER, R = RECEIVER		(1) 1"	IN MILLWORK/ UNDER TABLE	(1) STP	2,4,8,11.
	CHD	DUAL HDMI TRANSMITTER, WALL PLATE	D2	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
	HDU	HDMI AND USB TRANSMITTER, WALL PLATE	D1	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) STP	2,4,11.
	CAL	2-WAY INTERCOMMUNICATION PUSHBUTTON STATION	D1	(1) 3/4"	SWITCH HEIGHT	AS NOTED	2,7,10.
	(CSA)	CLASSROOM SOUND AMPLIFICATION SYSTEM	D2	(1) 1 1/4"	IN MILLWORK/ AS NOTED		2,3.
	CI	CREWCOM HEADSET INPUT, WALL PLATE	D1	(1) 1"	SWITCH HEIGHT	(1) MA	2,4.
	CIS	CREWCOM WALL STATION, WALL PLATE	D3	(1) 3/4"	SWITCH HEIGHT	(1) MA	2,4.
		INFRARED SENSOR, WALL/CEILING	D1	(1) 3/4"	AS NOTED	(1) UTP OR	2,6,11.
1	(ALS) (ALS)	ASSISTIVE LISTENING SYSTEM ANTENNA/EMITTER, WALL/CEILING	A1	(1) 1"	AS NOTED	(1) BUS AS NOTED	2,6.
	(AT) (AT)	·	D1		AS NOTED		2,6.
		AV ANTENNA, WALL/CEILING		(1) 1"		(1) AT	
	V	VOLUME CONTROL	D1	(1) 1"	SWITCH HEIGHT	(1) S16 (1) S16	2,4.
	SV	VOLUME CONTROL WITH SOURCE SELECTOR	D2	(1) 1"	SWITCH HEIGHT	(1) UTP	2,4,9,11.
-	(TPT) (TP0) (TP3)	TOUCH PANEL, TABLE TOP		(1) 1"	AS NOTED	(1) UTP	
	(TP5) (TP7)	TOUCH PANEL, WALL MOUNTED, REFER TO SPECIFICATIONS FOR TOUCH PANEL TYPE AND ORIENTATION	SCH	(1) 1"	SWITCH HEIGHT	(1) UTP	2,4,5,11.
-	(<u>KP1</u>) (<u>KP2</u>) (<u>KP</u> 3)	KEYPAD, WALL MOUNTED, REFER TO SPECIFICATIONS FOR KEYPAD TYPE	SCH	(1) 1"	SWITCH HEIGHT	(1) BUS or (1) UTP	2,4,10.
	(RS7) (RS5)	ROOM SCHEDULING TOUCHPANEL	SCH	(1) 1"	SWITCH HEIGHT	(1) STP	
\dashv	(TB1) (TB2)	TABLE/FURNITURE BOX, NUMBER REFERS TO TYPE		. , .		SEE DIAGRAMS.	
		REFER TO SPECIFICATIONS/DIAGRAMS FOR REQUIREMENTS	C#	(1) 2/4"			2.4
\dashv		LOUDSPEAKER, WALL MOUNTED	A0	(1) 3/4"	AS NOTED AS NOTED	(1) S16	2,4.
		LOUDSPEAKER, ARRAY, CABINET, CLUSTER		(1) 3/4"		(1) \$12	
1	(LOUDSPEAKER, CEILING RECESSED OR PENDANT	C#	(1) 3/4"	CEILING UNDER DISPLAY	(1) S16	2,7.
	SB1	SOUND BAR, REFER TO SPECIFICATIONS FOR TYPE	D1	(1) 1"	OR AS NOTED		1,5.
	(SB1)	DISPLAY, REFER TO SPECIFICATIONS FOR DISPLAY TYPE AND SIZE	PER SCH	(1) 1 1/4	AS NOTED	AS NOTED	4,13.
		PROJECTION SCREEN REFER TO SPECIFICATIONS FOR SCREEN TYPE AND SIZE	(2) A0	(1) 3/4"	CEILING OR WALL	(1) UTP	2,7.
	P# 1	PROJECTOR	D2	(1) 1 1/4"	CEILING OR AS NOTED	AS NOTED	2,6.
		AV CAMERA	C#	(1) 1"	AS NOTED	AS NOTED	1.
	>	EQUIPMENT CABINET/RACK	C#	SCH	AS NOTED		
	CLG	EQUIPMENT CEILING RACK	C#	SCH	AS NOTED		
		EQUIPMENT 2-POST CABINET/RACK	C#	SCH	AS NOTED		
-	GP1 GP1	PASS THROUGH PLATE, # = NUMBER OF GANGS	D#	(1) 1-1/2"	AS NOTED		2.
	J	JUNCTION BOX, ABOVE ACCESSIBLE CEILING	A0	AS NOTED	AS NOTED		
+	(C##)	CUSTOM JUNCTION BOX, REFER TO SCHEDULE AND DIAGRAM	SCH	SCH	AS NOTED	AS NOTED	
	FB	FOR EQUIPMENT, JUNCTION BOX AND CONDUIT FLOOR BOX - REFER TO ELECTRICAL DOCUMENTS FOR		AS NOTED		AS NOTED	
+	(PT)	MAKE/MODEL - REFER TO DIAGRAMS FOR AV DEVICE LAYOUT POKE THRU - REFER TO ELECTRICAL DOCUMENTS FOR		(1) 1 1/2"		AS NOTED	
		MAKE/MODEL - REFER TO DIAGRAMS FOR AV DEVICE LAYOUT		AS NOTED		, .O NOTED	
1		CONDUIT RUN CONCEALED IN WALL OR CEILING					
		CONDUIT RUN CONCEALED IN FLOOR OR GROUND		AS NOTED			
\dashv	 0	CONDUIT UP		AS NOTED			
		CONDUIT DOWN		AS NOTED		Į.	

AS NOTED

AS NOTED

LOW VOLTAGE SCOPE OF WORK

AC

ACCESS CONTROL CONTRACTOR

FURNISHED

INSTALLED

OWNER

SC

EC

LVC

SC

EC

LVC

AUDIOVISUAL CONTRACTOR

NOTES:.. . RESPONSIBILITY MATRIX DELINEATES THE SCOPE OF WORK BETWEEN THE OWNER AND THE CONTRACTORS. CONTRACTORS ARE RESPONSIBLE TO COORDINATE BETWEEN EACH OTHER FOR THE FULL SCOPE OF WORK THEY ARE RESPONSIBLE FOR. ADDITIONAL NOTES MAY BE PRESENT WITHIN THE CONTRACT DOCUMENTS INDICATING SPECIFIC EQUIPMENT PROVIDED BY OTHERS OR REQUIRE INSTALLATION BY SPECIFIC DIVISIONS. 3. INSTALLER PROVIDING THE SYSTEM CABLING SHALL PROVIDE

DOOR HARDWARE CONTRACTOR ELECTRICAL CONTRACTOR FURNITURE CONTRACTOR GENERAL CONTRACTOR INTRUSTION DETECTION CONTRACTOR DATA CABLING CONTRACTOR NOT IN CONTRACT THE CABLING, TERMINATION AND CERTIFICATION FOR A OWNER OWNER COMPLETE SYSTEM INSTALLATION, UNLESS OTHERWISE VIDEO SURVEILLANCE CONTRACTOR SPECIFICALLY NOTED WITHIN THE CONTRACT DOCUMENTS. SEE SPECIFICATIONS

4. INSTALLER TO VERIFY WITH CONTRACT DOCUMENTS FOR THE CONNECTION TYPE (MALE OR FEMALE) REQUIRED FOR EACH

5. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. DESCRIPTION

GENERAL		
STRUCTURAL BACKI'NG AND SUPPORT FOR WALL MOUNTED EQUIPMENT	GC	G(
EQUIPMENT POWER (120V, 208V, 240V, 277V, 480V)	EC	EC
ROUGH OR FINISHED TRIM, CASEWORK, MILLWORK, EQUIPMENT RACK PEDESTALS, STRUCTURAL WORK FOR SPECIAL CONSTRUCTION	GC	G
SUPPORT CABLES, PRE-CONSTRUCTION KITS, TILE BRIDGES AND/OR BACK BOXES FOR CEILING MOUNTED DEVICES.	EC	EC
TEST	TS	TS
AUDIOVISUAL BOXES/DEVICES		
SPECIALTY BACK BOXES, TILE BRIDGES, SUPPORT CABLES, PRECONSTRUCTION KITS, ETC. FOR AUDIOVISUAL COMPONENTS (TOUCH PANELS, LOUDSPEAKERS, KEYPADS, ETC.)	AV	A
CUSTOM AUDIOVISUAL CONNECTOR INSERT PLATE FOR FLOOR BOXES AND/OR WALL PLATES	AV	A\
FURNITURE BOXES WITH AUDIOVISUAL CONNECTIONS AND/OR CABLES	AV	A\
FURNITURE BOX TABLE CUTTING	GC	G

FURNITURE BOX TABLE CUTTING ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, FLAT PANEL DISPLAY BACK CATEGORY CABLE / FIBER OPTIC CABLE FROM DEVICE LOCATION TO TR(MDF)/ER(IDF) TERMINATED IN LVC LVC COAXIAL CABL CATEGORY CABLING FROM DEVICE TO DEVICE, NOT TERMINTATED IN PATCH PANELS WITHIN THE EQUIPMENT RACKS NOT WITHIN THE ER(MDF)/TR(IDF) FOR SYSTEM COMPONENTS LIGHTING CONTROL SYSTEM INTERFACE DEVICE(S) AND CABLING TO AV CONTROL SYSTEM. TERMINATION EC INTO AV SYSTEM CONTROLLER BY AV INSTALLER AV

MOTORIZED SHADE CONTROL SYSTEM INTERFACE DEVICE(S) AND CABLING TO AV CONTROL SYSTEM. TERMINATION INTO AV SYSTEM INSTRUCTOR'S LECTERNS/CONSOLES WITH INTEGRATED AUDIOVISUAL SYSTEMS COMPONENTS NETWORK SWITCHES WITHIN THE ER(MDF)/TR(IDF) FOR AUDIOVISUAL NETWORK, AUDIO, CONTROL AND OWNER PROJECTOR/MONITORS PROJECTOR SCREEN MANUAL AND/OR MOTORIZED HOUSING FLAT PANEL MONITOR MOUNTS FLAT PANEL MONITORS

INTERACTIVE FLAT PANEL MONITORS AND MOUNTS ACCESS CONTROL SYSTEM CONDUIT/WIRE ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, ET CATEGORY CABLE / FIBER OPTIC CABLE NON-CATEGORY CABLE

ACCESS CONTROL SERVER DOOR CONTROLLERS LOCK & ACCESS CONTROL POWER SUPPLIES ELECTRIFIED LOCKING DOOR HARDWARE ACCESS CONTROL SOFTWARE DOOR CONTROLLER POWER SUPPLIES NETWORK SWITCHES WITHIN THE ER(MDF)/TR(IDF) FOR ACCESS CONTROL AND/OR INTRUSION SYSTEMS CONDUIT/WIRE TERMINATING AND TESTING THE LOW VOLTAGE CABLING

CELLULAR BACKUP ALARM COMMUNICATOR (IF APPLICABLE) END DEVICES: (E.G.; DOOR / WINDOW / GARAGE CONTACTS; MOTION / GLASS / SMOKE / HEAT / CO DETECTORS; MOISTURE / TEMPERATURE / LEAK SENSORS; ETC. EXTERIOR / INTERIOR ALARM SIREN AND/OR STROBE HEAD-END CONTROL PANEL AND SLAVE PANELS KEYPADS (ARM/DISARM) RECHARGABLE BACKUP BATTER' WIRELESS TRANSMITTERS, RECEIVERS, REPEATERS IP CAMERA & VIDEO SURVEILLANCE SYSTEM

VIDEO PROJECTOR MOUNTS

PROJECTOR SCREEN, FIXED FRAME (SIMILAR TO WHITEBOARD

PROJECTOR SCREEN MANUAL AND/OR MOTORIZED ROLLER

CONDUIT/WIRE ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, ET CATEGORY CABLE / FIBER OPTIC CABLE TERMINATING & TESTING CATEGORY CABLES (PATCH PANEL & DATA PORT EQUIPMENT

POE DATA SWITCHES EQUIPMENT RACKS WITHIN THE ER(MDF)/TR(IDF) FOR SYSTEM COMPONENTS (NVR) NETWORK VIDEO RECORDER & STORAGE, (VMS) VIDEO MANAGEMENT SOFTWARE, ANALYTIC SOFTWARE LICENSES, & IP SURVEILLANCE CAMERA LICENSES CAMERA ETHERNET EXTENDERS AND POE INJECTORS NETWORK CABLING SURGE SUPRPESSION IP SURVEILLANCE CAMERAS, MICRO SDXC 128GB STORAGE CARDS, & SURVEILLANCE CAMERA MOUNTS NETWORK SWITCHES WITHIN THE ER(MDF)/TR(IDF) FOR VIDEO SURVEILLANCE

TELEPHONE / DATA CUSTOM TELECOMMUNICATIONS CONNECTOR INSERT PLATE FOR FLOOR BOXES AND/OR WALL PLATES ROUGH-IN - CONDUIT W/PULL STRING, JUNCTION BOXES, FLOOR BOXES, FLAT PANEL DISPLAY BACK CATEGORY CABLE / FIBER OPTIC CABLE TERMINATE CABLE (PATCH PANEL AND DATA PORT), INCLUDING TESTING PATCH CABLES FOR DEVICES WITHIN THE TR/ER FOR CONNECTION BETWEEN PATCH PANELS AND

EQUIPMENT RACKS WITHIN THE ER(MDF)/TR(IDF) FOR SYSTEM COMPONENTS WIRELESS ACCESS POINTS RACK MOUNT UPS, POWER DISTRIBUTION UNIT (PDU DATA SWITCHES, SERVERS, FIREWALL, ETC

AUDIOVISUAL GENERAL NOTES

THIS SHEET SET SHOWS WORK AND MATERIALS BY DIVISION 26 AND DIVISION 27. SEE SPECIFICATIONS AND DRAWING NOTES FOR RESPONSIBILITY FOR EACH ITEM.

ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIRED PROVISIONS WITH THE PROJECT AV SYSTEMS INTEGRATOR PRIOR TO INSTALLATION OF AV SYSTEM ROUGH-IN. WHERE CONDUIT AND JUNCTION BOX PROVISIONS ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS, NOTIFY THE AV CONSULTANT IN WRITING OF THE REQUIREMENTS. WHERE MINOR MODIFICATIONS TO PROVISIONS ARE REQUIRED. THEY SHALL BE MADE AT NO ADDITIONAL COST AS A MATTER OF JOB COORDINATION.

BIDDERS SHALL THOROUGHLY ACQUAINT AND EXAMINE THE EXISTING PROJECT CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. INCLUDING THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. BIDDERS SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM AND BRING ANY DISCREPANCIES OR OMISSIONS FOUND IN THE DRAWINGS TO THE AV CONSULTANT'S ATTENTION BEFORE SUBMITTING BID.

AV SYSTEMS INTEGRATOR SHALL PROVIDE A FULLY FUNCTIONING SYSTEM IN EVERY RESPECT. ANY DISCREPANCIES IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.

THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT, AND ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS. BUT NECESSARY TO FULLY COMPLETE THE WORK, SHALL BE FURNISHED BY THE PROJECT AV SYSTEMS INTEGRATOR.

NO CHANGES TO THE DESIGN SHALL BE MADE WITHOUT THE PROJECT AV CONSULTANT'S WRITTEN CONSENT. WHERE APPLICABLE, AV SYSTEMS INTEGRATOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION

REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED IN EQUIPMENT LIST.

COORDINATE EXACT SPEAKER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.

CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL SPEAKERS AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND AV CONSULTANT PRIOR TO RELEASE.

INSTALL/SUSPEND ALL AUDIOVISUAL SYSTEMS EQUIPMENT IN COMPLIANCE WITH SEISMIC CODES. MANUFACTURER'S WRITTEN INSTRUCTIONS AND INDUSTRY BEST PRACTICES, DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.

ALL TWISTED-PAIR (U/UTP, F/UTP, U/FTP, S/FTP) CATEGORY TYPE CABLING SHALL BE TERMINATED BY CERTIFIED DATA TECHNICIANS. TEST PER SPECIFICATIONS REQUIREMENTS AND PROVIDE DATA TO AV

ALL HDBaseT SIGNAL CABLING, TERMINATIONS, AND TERMINATION HARDWARE SHALL COMPLY WITH TIA/EIA WIRING CONFIGURATION T568 B. ALL HDBaseT SIGNAL CABLING SHALL BE SHIELDED/FOIL (SF/UTP) CATEGORY

CONDUCT A RADIO FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTING RF OPERATIONAL FREQUENCIES. AV SYSTEMS INTEGRATOR TO ENSURE INTERFERENCE FREE OPERATION OF ALL RF DEVICES. AV SYSTEMS INTEGRATOR SHALL COORDINATE AUDIT RESULTS WITH MANUFACTURER PRIOR TO PURCHASING RF

PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. PROVIDE CUSTOM RACK MOUNT KITS WHEN NOT AVAILABLE FROM THE EQUIPMENT MANUFACTURER.

16. PROVIDE SURGE PROTECTION DEVICE (SPD) IN ALL AV EQUIPMENT RACKS.

ALL AV EQUIPMENT RACKS SHALL BE GROUNDED AND BONDED TO MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NED), IEC 1000-5-2 ANSI/J-STD-607-A.

18. ALL AV EQUIPMENT SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS. 19. PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES OR TRANSFORMERS FOR ALL SPECIFIED

20. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR LACK OF COORDINATION WITH AV CONSULTANT AS ADDRESSED IN THE DOCUMENTS

UNLESS SPECIFICALLY SPECIFIED OR NOTED PROVIDE COMMERCIAL QUALITY EQUIPMENT, MATERIALS AND COMPONENTS DESIGNED FOR CONTINUOUS USE. CONSUMER QUALITY COMPONENTS ARE NOT ACCEPTABLE.

AUDIOVISUAL SHEET INDEX

AUDIOVISUAL SYMBOLS AND NOTES BASEMENT LEVEL AUDIOVISUAL PLAN MAIN LEVEL AUDIOVISUAL PLAN AUDIOVISUAL ELEVATIONS AUDIOVISUAL DIAGRAMS

ARCHITECTS

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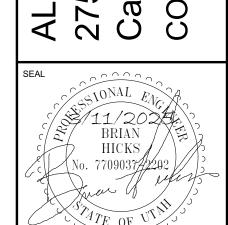
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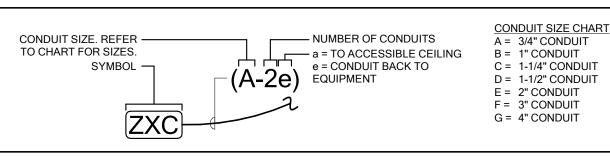
AUDIOVISUAL

SYMBOLS AND NOTES

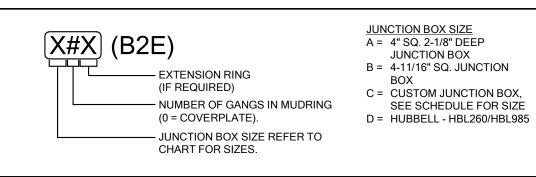
PROJECTOR SCREEN SCHEDULE WEIGHT OPERATION PROJECTION ORIENTATION ASPECT RATIO CONTROL TYPE | MOUNTING TYPE NOTES TEXT

	AV LOUDSPEAKER SCHEDULE								
	DIMENSIONS		SHAPE	WEIGHT	INSTALLATION	NOTES			
TYPE	WIDTH (H)	WIDTH (V)	DIAMETER	DEPTH	SHAPE	WEIGHT	INSTALLATION	NOTES	
C6	0"	0"	12"	6"	ROUND	9.5 LBS	RECESSED	LOW PROFILE LOUDSPEAKER	
P6	0"	0"	12 5/16"	13"	ROUND	11.5 LBS	PENDENT	MOUNT PENDANT BOTTOM LEVEL WITH LIGHT FIXTURE	
S1	8 1/2"	13"		7"	SQUARE	15 LBS	SURFACE		
S2	8 1/2"	13"		7"	SQUARE	15 LBS	SURFACE		
S3	8 1/2"	13"		7"	SQUARE	15 LBS	SURFACE		

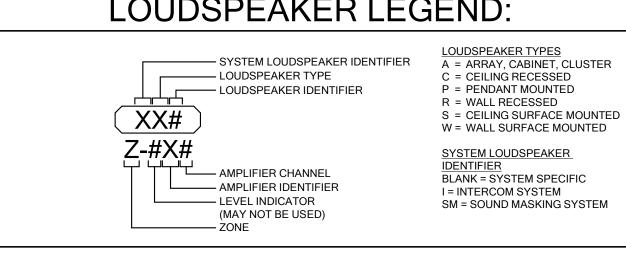
CONDUIT SCHEDULE LEGEND:

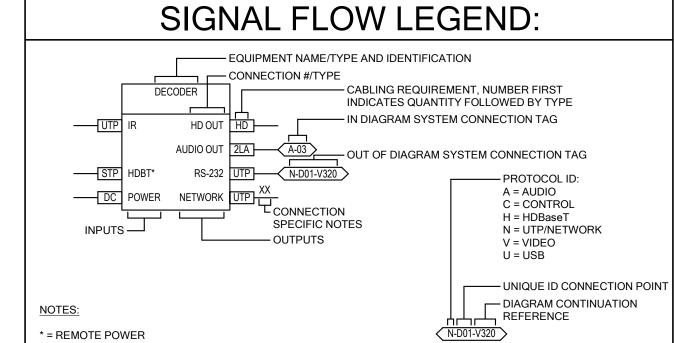


ROUGH-IN JUNCTION BOX LEGEND:









ARCHITECTS

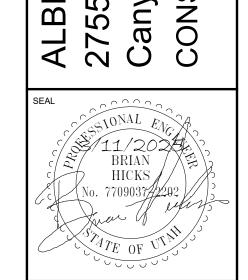
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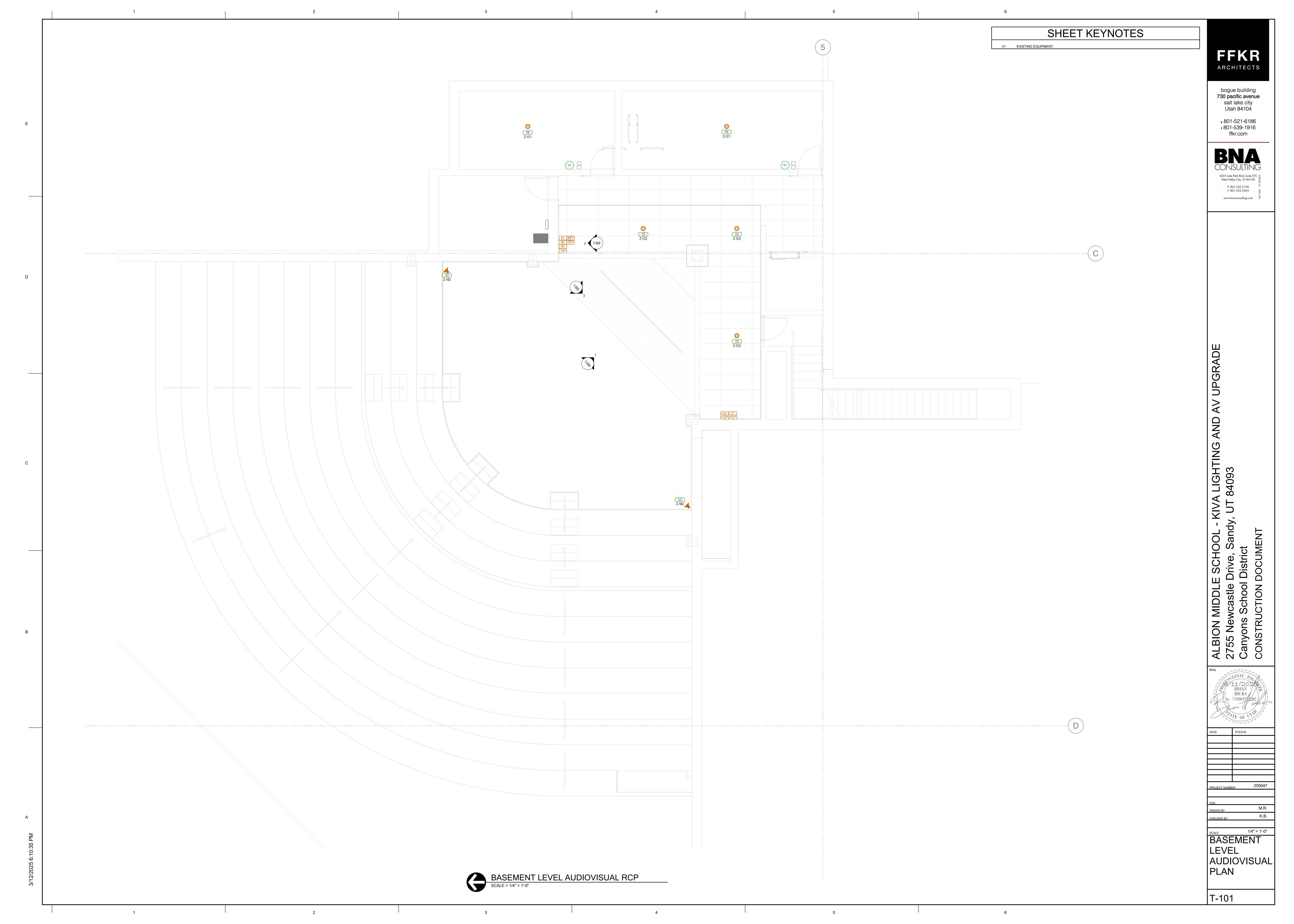
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ALBION MIDDLE SCHOOL - KIVA LIGHTING AND 2755 Newcastle Drive, Sandy, UT 84093
Canyons School District
CONSTRUCTION DOCUMENT



DATE	STATUS
PROJECT NUMBI	250047
FILE	
DRAWN BY	M.R.
CHECKED BY	K.B.

AUDIOVISUAL SCHEDULES



SHEET KEYNOTES V1 EXISTING EQUIPMENT. V7 PROJECTOR SCREEN TO USE EXISTING POWER. MAIN LEVEL AUDIOVISUAL PLAN

SCALE = 1/4" = 1'-0"

FFKR ARCHITECTS

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4225 Lake Park Blvd, Suite 275 B West Valley City, UT 84120

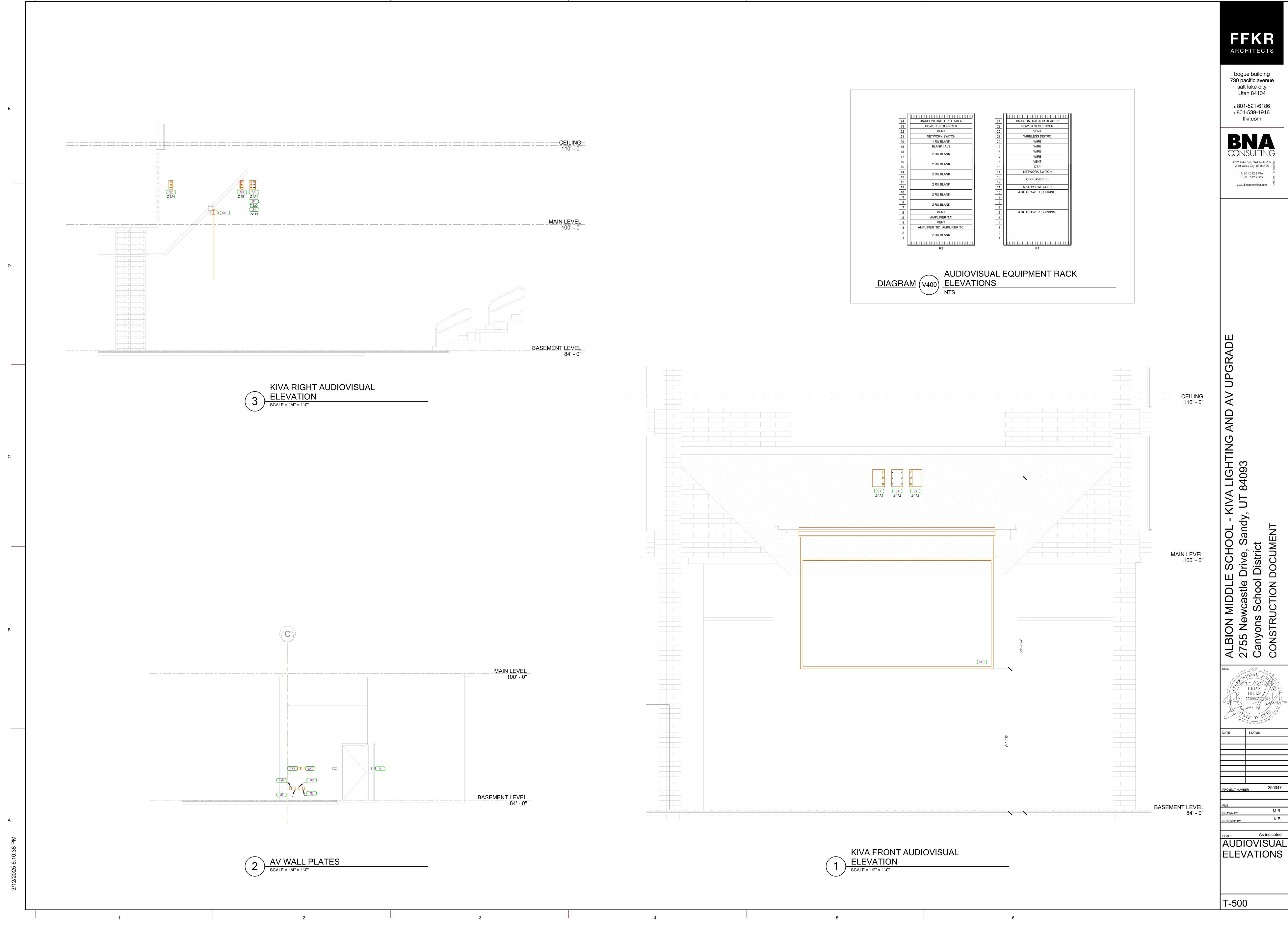
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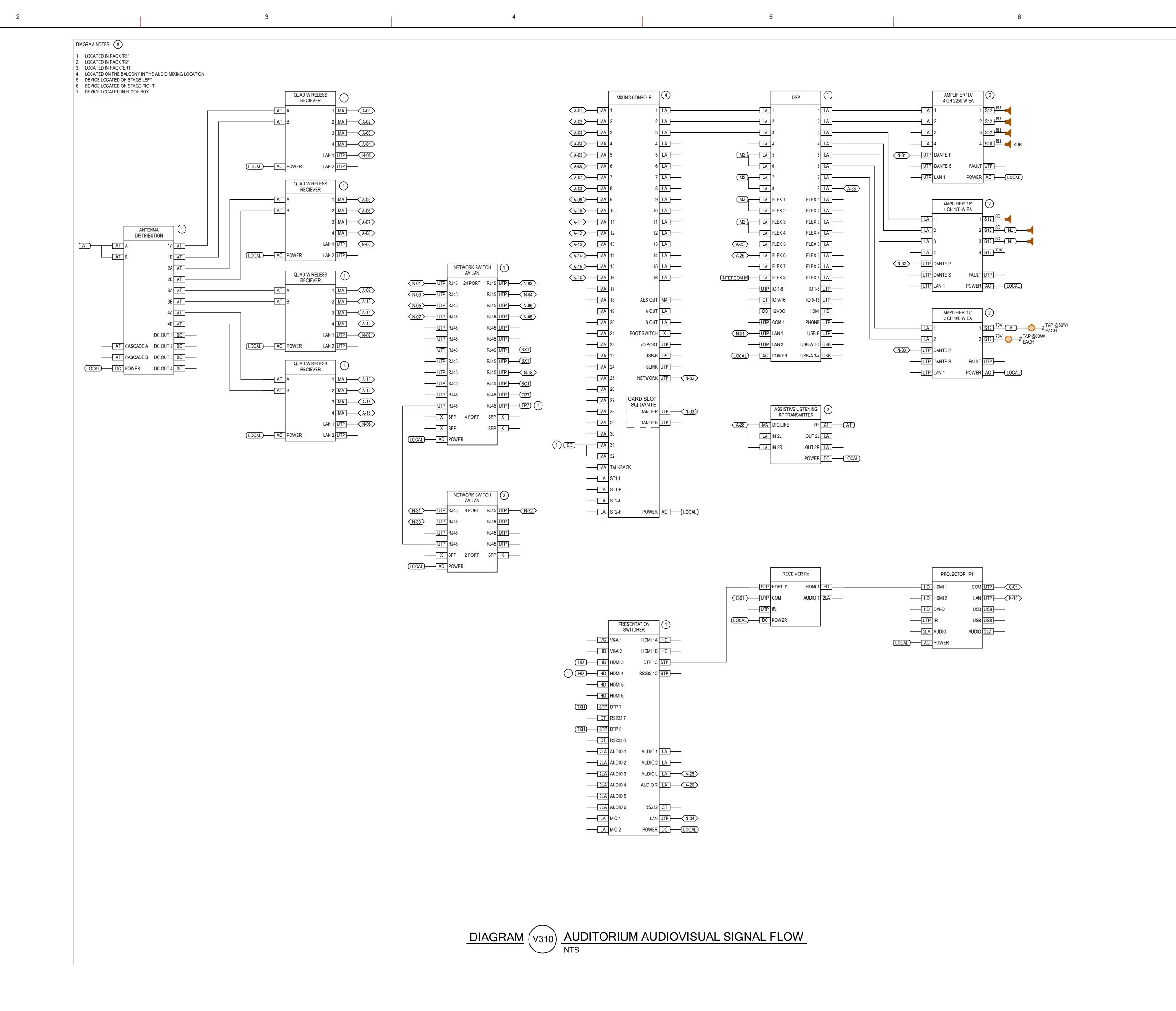
ALBION MIDDLE SCHOOL - KIVA LIGHTING 2755 Newcastle Drive, Sandy, UT 84093 Canyons School District CONSTRUCTION DOCUMENT

BRIAN HICKS
No. 770903742202

DATE	STATUS				
PROJECT NUMBI	250047				

MAIN LEVEL
AUDIOVISUAL
PLAN







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ALBION MIDDLE SCHOOL - K 2755 Newcastle Drive, Sandy, Canyons School District CONSTRUCTION DOCUMENT

BRIAN HICKS No. 7709037/2292

SCALE 12" = 1'-0"
AUDIOVISUAL DIAGRAMS