### OFFICE OF THE SULLIVAN COUNTY PURCHASING AGENT 3411 HIGHWAY 126 – SUITE 201 BLOUNTVILLE, TN 37617-0569

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### ADDENDUM-2

### RFP: EM2019-148(KD)

Re:

### INTERCOM, PAGING, AND EMERGENCY MESSAGING SYSTEM FOR SULLIVAN EAST MIDDLE SCHOOL

This addendum is issued as a follow up to Addendum #1.

1. When reviewing the blueprints it appears there are no intercom speakers in any classrooms. Is that the intention? Is there a specific intercom speaker count or should we base the bid response on what is shown on the blueprints.

Answer: The added speakers are denoted by a red circle with a red "S" inside them as per the attached drawings.

### END OF ADDENDUM #2

PLEASE ACKNOWLDGE RECEIPT OF THIS ADDENDUM TO EMAIL ADDRESS: kris.davis@sullivancountytn.gov or call 423/323-6400.

<u></u>	COMMERCIAL ENERGY EFFICIENCY - ELECTRICAL SUMMARY METHOD OF COMPLIANCE
201	2 IECC CHAPTER C4 ASHRAE 90.1-2007 T APPLICABLE BASED ON PROJECT SCOPE
	APPLICATION COMPLIANCE
<b>C</b> 40	D6.2 EFFICIENT HVAC PERFORMANCE D6.3 EFFICIENT LIGHTING SYSTEM
	06.4 ONSITE RENEWABLE ENERGY IT APPLICABLE BASED ON PROJECT SCOPE
	- INTERIOR LIGHTING CONTROLS (MANDATORY REQUIREMENTS): NTERIOR LIGHTING SYSTEMS ARE PROVIDED WITH CONTROLS AS REQUIRED PER SECTION
	C405.2, EXCEPT WHERE EXEMPT.
C405.3	- TANDEM WIRING (MANDATORY REQUIREMENTS): ELUORESCENT LUMINARIES LOCATED WITHIN THE SAME AREA ARE TANDEM WIRED AS
<u> </u>	REQUIRED PER SECTION 505.3, EXCEPT WHERE EXEMPT.
C405.4	- EXIT SIGNS (MANDATORY REQUIREMENTS): NTERNALLY ILLUMINATED EXIT SIGNS DO NOT EXCEED 5 WATTS PER SIDE.
n 🗌	NOT APPLICABLE
	- INTERIOR LIGHTING POWER REQUIREMENTS (PRESCRIPTIVE) (NON-EXEMPT): NOT APPLICABLE PER 2012 IECC C101.4.3, EXCEPTION 7.
	C405.5.1 - TOTAL <u>CONNECTED</u> INTERIOR LIGHTING POWER: <u>NOTE A</u> WATTS SPECIFIED
0	C405.5.2 - TOTAL <u>ALLOWABLE</u> INTERIOR LIGHTING POWER: METHOD OF COMPLIANCE:
	BUILDING AREA METHOD SPACE-BY-SPACE METHOD NOTE A WATTS ALLOWED
	.1 - EXTERIOR BUILDING GROUNDS LIGHTING:
L	AMPS OPERATING AT GREATER THAN 100 WATTS FOR EXTERIOR BUILDING GROUNDS UMINARIES HAVE A MINIMUM EFFICACY OF 60 LUMENS PER WATT, EXCEPT WHERE EXEMPT.
	NOT APPLICABLE 2 - EXTERIOR BUILDING LIGHTING POWER (NON-EXEMPT):
1	NOT APPLICABLE
	TOTAL <u>CONNECTED</u> EXTERIOR LIGHTING POWER: WATTS SPECIFIED
ז 1677 FE	TOTAL <u>ALLOWABLE</u> EXTERIOR LIGHTING POWER: ET <u>NOTE A</u> WATTS ALLOWED
	- ELECTRICAL ENERGY CONSUMPTION (DWELLING UNITS): SEPARATE TENANT METERING TO DETERMINE ELECTRICAL ENERGY CONSUMPTION HAS
E	BEEN PROVIDED FOR BUILDINGS HAVING INDIVIDUAL DWELLING UNITS.
	NOT APPLICABLE
NOTE A	SEE COMCHECK ON SHEET E602
+4	42" DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH
3F Al	
AI	HJ AUTHORITY HAVING JURISDICTION HU AIR HANDLER UNIT
C.	
EC E.C	
EV	WH     ELECTRIC WATER HEATER       ACP     FIRE ALARM CONTROL PANEL
FF	PN FUSE PER NAMEPLATE
Ρ.	.C.       MECHANICAL CONTRACTOR         C.       PLUMBING CONTRACTOR         G.       UNDERGROUND
U.	P WEATHERPROOF
W S.	EXISTING ITEM RELOCATED TO THIS LOCATION.
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## **DEVICES AND PATHWAYS**

$\frown$	WIRING SYSTEM CONCEALED IN WALL OR CEILING.
$\frown$	WIRING SYSTEM CONCEALED IN OR UNDER SLAB OR UNDERGROUND.
	BRANCH CIRCUIT HOMERUN TO PANEL.
$\mathbb{O}\hat{\mathbb{O}}$	JUNCTION BOX WITH CONNECTION TO EQUIPMENT SERVED. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
$\mathop{\underline{0}}_{\!$	JUNCTION BOX FOR HAND DRYER CONNECTION; SEE MOUNTING HEIGHTS DETAIL FOR EXACT HEIGHT; SEE ARCH. SHEETS FOR COORDINATION 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
S <sub>HD</sub>	20 AMP TOGGLE SWITCH FOR HAND DRYER TO BE MOUNTED ABOVE THE CEILING.
$\Rightarrow$	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT (USE 20 AMP FOR SINGLE RECEPTACLE ON A CIRCUIT.) HUBBELL 5352, OR EQUAL.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER BACKSPLASH, OR AT HEIGHT NOTED.
	QUAD RECEPTACLE. TWO NEMA 5-20R DUPLEX RECEPTACLES.
= EWC	STANDARD NEMA (2) 5-20R DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
GFI	GROUND FAULT RECEPTACLE. NEMA 5-20R DUPLEX. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.
GFI	GROUND FAULT RECEPTACLE. DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER BACKSPLASH, OR AT HEIGHT NOTED.
⇒ WP	WEATHERPROOF RECEPTACLE. NEMA 5-20R GFI DUPLEX. COVER SHALL BE INTERMATIC #WP1020 (CLEAR) OR SPECIFICATION EQUAL.
SPD	SURGE PROTECTION DEVICE (SPD); SEE DETAIL
	WIREMOLD 2400 PLUGMOLD. NEMA 5-15R RECEPTACLES ON 12" CENTERS. ALTERNATE CIRCUITS.
$\vdash $	SPECIAL OUTLET. SEE PLANS.
⊢Ĝ	GROUNDING BAR PER DIAGRAM.
FB6	SIX GANG FLUSH MOUNTED FLOOR BOX WITH ACCESSIBLE COVER FOR POWER AND COMMUNICATIONS. PROVIDE TWO NEMA 5-20R DUPLEX RECEPTACLES AND ONE COMM. PLATE WITH PROVISION FOR SIX RJ45 CAT6 JACKS. EQUAL TO WIREMOLD RFB6E-OG-8CT. ARCHITECT TO SELECT FINISH. STUB FROM BOX ONE CONCEALED 1 1/4"C ROUTED TO WHICHEVER IS NEAREST, BB, J-HOOKS, OR CABLE TRAY. EQUALS: HUBBELL, THOMAS & BETTS, OR SPECIFICATION EQUAL.
V O G	6 GANG FLUSH MOUNTED FLOOR BOX WITH POWER AND COMMUNICATIONS. 3-NEMA 5-20 RECEPTACLES AND 3-COMM. PLATES EQUAL TO TO LEGRAND RFB6-OG-FPBTC. ARCHITECT TO SELECT FINISH. PROVIDE WITHIN 3-DUPLEX RECEPTACLES NEMA 5-20R. PROVIDE CONDUIT AS INDICATED ON DRAWING, AND ONE ADDITIONAL CONCEALED 1"C ROUTED TO WHICHEVER IS NEAREST, BB OR CABLE TRAY. PROVIDE EXTENSION RING FOR AIR GAP. FLOOR BOX COVER SHALL BE FLUSH STYLE.
(J) SEC	
	PANELS, DISCONNECTS

S <sub>M</sub>	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER, WITH OVERLOAD PROTECTION
	NON-FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
Zr	FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING/FUSE SIZE. NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED.

PANELBOARD. SEE SCHEDULE FOR MOUNTING. TOP OF PANEL AT 6'-6" AFF.

## SECURITY

	CEILING MOUNTED SECURITY CAMERA. PROVIDE 3/4" CONDUIT TO LOCAL ACCESSIBLE CEILING UNLESS OTHERWISE NOTED. PROVIDE DOUBLE GANG JUNCTION BOX WITH SINGLE GANG OPENING PLATE. PROVIDE PULL STRING. SEE "AV" DRAWINGS FOR MORE INFORMATION.
H	WALL MOUNTED SECURITY CAMERA. PROVIDE 3/4" CONDUIT TO LOCAL ACCESSIBLE CEILING UNLESS OTHERWISE NOTED. PROVIDE DOUBLE GANG JUNCTION BOX WITH SINGLE GANG OPENING PLATE. PROVIDE PULL STRING. SEE SECURITY SCHEDULE FOR TYPE AND MOUNTING. EXTERIOR IS PROVIDED WITH CONDUIT TO THE SURGE PROTECTION BOX, NO SEPARATE 4" BOX. +9' UNLESS OTHERWISE NOTED.
MD	LONG RANGE MOTION SENSOR, PROVIDE MINIMUM 3/4" CONDUIT TO LOCAL ACCESSIBLE CEILING UNLESS OTHERWISE NOTED. PROVIDE WIRE GAURD FOR ALL. PROVIDE SINGLE GANG JUNCTION BOX AND PULL STRING. SEE "AV" DRAWINGS FOR MORE INFORMATION.
CR	CARD READER, MINIMUM 3/4" CONDUIT. PROVIDE SINGLE GANG JUNCTION BOX AND PULL STRING. SEE DOOR ACCESS DETAIL FOR ADDITIONAL REQUIREMENTS OF PATHWAYS AND CABLING. SEE "AV" DRAWINGS FOR MORE INFORMATION. +48"
DC	DOOR CONTACT, MINIMUM 3/4" CONDUIT. PROVIDE SINGLE GANG JUNCTION BOX AND PULL STRING. SEE DOOR ACCESS DETAIL FOR ADDITIONAL REQUIREMENTS OF PATHWAYS AND CABLING.
КР	KEYPAD, PROVIDED BY OTHERS. PROVIDE COORDINATED SEMI-RECESSED BOX AND 3/4"C TO ABOVE ACCESSIBLE CEILING. BUSH END OF CONDUIT.
ES	ENTRY DOOR STRIKE, MINIMUM 1/2" CONDUIT. PROVIDE SINGLE GANG JUNCTION BOX AND PULL STRING. SEE DOOR ACCESS DETAIL FOR ADDITIONAL REQUIREMENTS

### ACCESS DETAIL FOR ADDITIONAL REQUIREMENTS OF PATHWAYS AND CABLING.

# SYMBOL SCHEDULE

## FIRE ALARM

FACP	FIRE ALARM CONTROL PANEL WITH LOCAL SMOKE DETECTOR
(SD)	FIRE ALARM REMOTE ANNUNCIATOR. PROVIDE BOX AS REQUIRED PER MANUFACTURER RECOMMENDATION. PROVIDE 1"C CONDUIT FOR CABLING.
F	FIRE ALARM MANUAL STATION. PROVIDE PROTECTION DEVICE
SD	CEILING MOUNTED SMOKE DETECTOR. FA VENDOR PROVIDED.
HD	CEILING MOUNTED HEAT DETECTOR.
00	DUCT MOUNTED SMOKE DETECTOR. FURNISHED AND CONNECTED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR. CUTTING OF DUCT, INSTALLATION OF DETECTOR. AND DETERMINATION OF SAMPLING TUBE LENGTH SHALL BE THE MECHANICAL CONTRACTOR. PROVIDE REMOTE INDICATING LIGHT WITH EACH DETECTOR.
CO	CEILING MOUNTED CARBON MONOXIDE DETECTOR (CENTRAL SYSTEM CONNECTED)
FS	SPRINKLER SYSTEM FLOW SWITCH.
TS	SPRINKLER SYSTEM TAMPER SWITCH.
DH	MAGNETIC DOOR HOLDER, PROVIDED BY ELECTRICAL CONTR, INSTALLED BY ELEC. CONTR. PROVIDE A SMOKE DETECTOR WITHIN 5 FT. OF BOTH SIDES OF DOORS TO LOCALLY ACTIVATE DOOR UPON SMOKE SIGNAL.
F	ADA COMPLIANT WALL MOUNT FIRE ALARM SPEAKER WITH STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. WHITE FINISH.
Ś	ADA COMPLIANT WALL MOUNT FIRE ALARM STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED WHITE FINISH.
F	ADA COMPLIANT CEILING MOUNTED FIRE ALARM SPEAKER STROBE LIGHT, 15cd, UNLESS OTHERWISE NOTED. WHITE FINISH.
Ś	ADA COMPLIANT CEILING MOUNTED FIRE ALARM STROBE LIGHT, 15cd, UNLESS OTHERWISE NOTED. WHITE FINISH.
FSD	FIRE SMOKE DAMPER. SEE DETAIL #2/E-004.
RTS	ROOM TEMPERATURE SPRINKLER SYSTEM SWITCH. NORMALLY OPEN NFPA 13/72 COMPLIANT SWITCH TO CLOSE AT 40 DEGREES OR LESS
	SPECIAL SYSTEMS
S	FLUSH-MOUNTED CEILING SPEAKER 3/4" CONDUIT TO LOCAL CABLE TRAY.
H(M)	WALL-MOUNTED SPEAKER.3/4" CONDUIT TO LOCAL CABLE TRAY
HWP (WP	EXTERIOR WEATHERPROOF SPEAKER;3/4" CONDUIT TO LOCAL CABLE TRAY PROVIDE WEATHERPROOF J-BOX
Sss	GYM SOUND SYSTEM SPEAKER. SEE DETAIL
V	VOLUME CONTROL; SINGLE GANG BOX AND 3/4"C CONDUIT TO ABOVE CEILING WITH PULL STRING. SEE APPLICABLE DETAIL AND/OR SPECIFICATIONS FOR ADDITIONAL CONDUIT AND CABLING REQUIREMENTS.
M1 ⊣	MICROPHONE JACK; 1" CONDUIT TO LOCAL SOUND SYSTEM CLOSET

	MICROFFICINE JACK, 1 CONDUIT TO LOCAE SOUND STSTEM CLOSET
/	SEE TV DETAIL FOR TYPE AND REQUIREMENTS. MINIMUM 1" CONDUIT FOR CABLING AND 3/4" CONDUIT FOR POWER. PROVIDE PULL STRING FOR LOW VOLTAGE CABLING TO ACCESSIBLE CEILING.
	ELEVATOR TWO WAY MASTER STATION LOCATE AS DIRECTED BY THE ALL

ELEVATOR TWO WAY MASTER STATION. LOCATE AS DIRECTED BY THE AHJ. Щ

ELEVATOR TWO WAY CALL STATION. MOUNT SIGN ON WALL ABOVE.

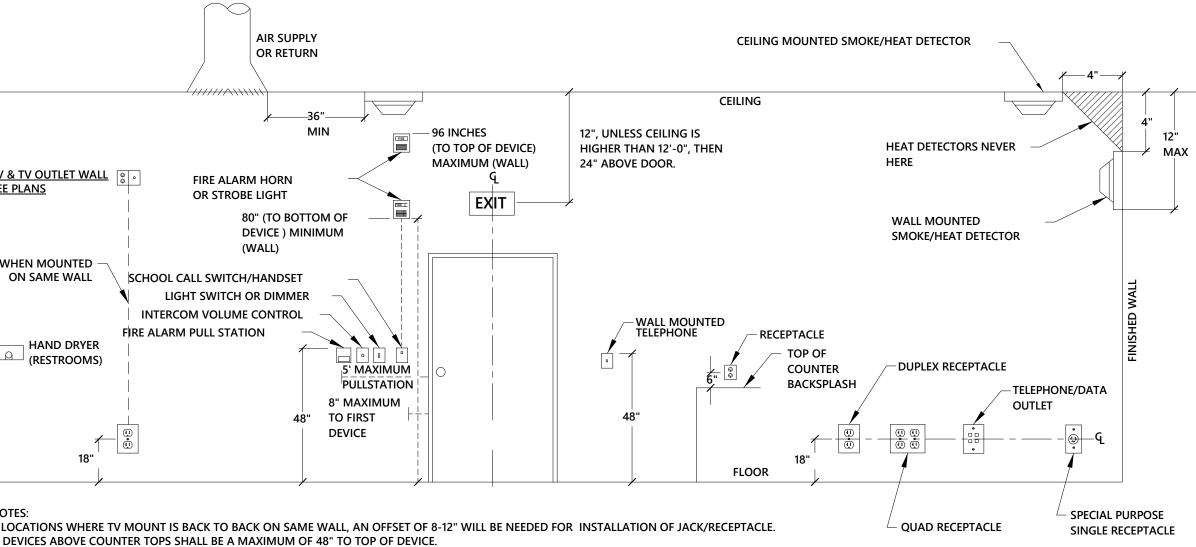
INTERCOM STATION. PROVIDE SINGLE GANG BOX AND PLASTER RING. PROVIDE (1) IC 3/4"C TO ABOVE CEILING JUNCTION BOX AND CONTINUE (1) 3/4"C TO CABLE TRAY.

D ACCESSIBLE DOOR OPENER PUSH BUTTON. PROVIDE MINIMUM (2) GANG BOX WITH SINGLE GANG OPENING. 3/4"C TO DOOR OPERATOR. COORDINATE WITH EQUIPMENT PROVIDED. SEE DETAIL. ANTENNA - SEE FIRST RESPONDER SYSTEM BOOSTING RISER ANT

J) SPLIT SPLITTER - SEE FIRST RESPONDER SYSTEM BOOSTING RISER

### TELECOMMUNICATIONS

<₽	TELE/DATA OUTLET ABOVE COUNTER OR HEIGHT SPECIFIED. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
$\triangleleft$	TELE/DATA OUTLET. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
	BASKET STYLE CABLE TRAY 12" WIDE X 4" DEEP SUSPENDED FROM CEILING STRUCTURE UNLESS OTHERWISE NOTED CABLE TRAY SHALL BE COORDINATED WITH MECHANICAL DUCTWORK IN FIELD PRIOR TO INSTALLATION; CONTRACTOR SHALL PRODUCE COORDINATION DRAWINGS AND FIELD ADJUST AS REQUIRED TO MEET INTENT OF DRAWINGS
WAP	ABOVE CEILING, STRUCTURE MOUNTED JUNCTION BOX FOR WIRELESS ACCESS LOW VOLTAGE CABLING. 4" SQUARE BOX WITH A TWO-GANG OPENING. STUB 1" EC FROM BOX TO J-HOOKS OR CABLETRAY ABOVE ACCESSIBLE CEILING. PROVIDE CABLING, TERMINATIONS, AND FACEPLATE PER SPECIFICATIONS.



# MOUNTING HEIGHTS OF DEVICES - ELEVATION

	LIGHTING (SEE FIXTURE SCH.)
0	LED LIGHTING FIXTURE. SEE FIXTURE SCHEDULE. SUSPEND FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
-0	LED STRIP FIXTURE.
0	LED LIGHTING FIXTURE.
Ю	WALL MOUNTED LED LIGHTING FIXTURE.
0	LED FIXTURE WITH EMERGENCY BATTERY DRIVER. PROVIDE 1100 LUMEN INVERTER RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE, EMERGENCY DEVICE SHALL SUPPLEMENT FIXTURE.
•	LED DOWNLIGHT WITH AN EMERGENCY BATTERY DRIVER. BASED ON 1100 LUMEN INVERTER (SEE SCHEDULE FOR FIXTURE LUMEN MAXIMUM.) EMERGENCY DEVICE SHALL SUPPLEMENT FIXTURE.
$\bigotimes_{\underline{A}}$	EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. 90 MIN BATTERY BACKUP. SEE LIGHTING FIXTURE SCHEDULE.
	EMERGENCY BATTERY PACK FIXTURE. 90 MINUTE EMERGENCY INTEGRAL BATTERY. SEE LIGHTING FIXTURE SCHEDULE
	EMERGENCY BATTERY PACK/EXIT COMBO FIXTURE WITH 90 MINUTE BATTERY BACKUP, SEE FIXTURE SCHEDULE.
● ⊥	EXTERIOR EMERGENCY FIXTURE WITH EMERGENCY DRIVER. PROVIDE 1100 LUMEN INVERTER RATED FOR 90 MINUTE OPERATION. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE, EMERGENCY DEVICE SHALL SUPPLEMENT FIXTURE.
S	SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER AH 1221, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
S <sub>2</sub>	DOUBLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER 1222, OR EQUAL.
S <sub>3</sub>	THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1223, THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1223, OR EQUAL BY HUBBELL, LEVITON, AND PASS & SEYMOUR.
S <sub>κ</sub>	KEY OPERATED SWITCH
S <sub>D</sub>	DIMMER SWITCH. LUTRON SERIES, OR EQUAL. VERIFY LOAD ON CIRCUIT AND MATCH DIMMER SIZE TO LOAD AND DEVICE QUANTITY. PROVIDE DOUBLE GANG J-BOX WITH SINGLE GANG TRIM PLATE. PROVIDE DIMMING SWITCH AS RECOMMENDED BY LIGHTING MANUFACTURER. MATCH SWITCH TYPE TO SOURCE (LED, FLUORESCENT, OR INCANDESCENT,) WATTAGE, AND QUANTITY. INDICATES TWO LEVEL SWITCHING. SWITCH OUTER TWO LAMPS OF FIXTURES TOGETHER
33	AND THE INNER LAMP(S) TOGETHER.
$\mathbf{S}_{vs}$	WALL MOUNTED VACANCY SENSOR AND SWITCH (MANUAL ON/AUTOMATIC OFF). INFRARED TECHNOLOGY, SENSOR SWITCH WSX, WATT STOPPER PW-301, LEVITON OR EQUAL.
<b>S</b> <sub>oc</sub>	WALL MOUNTED OCCUPANCY SENSOR AND SWITCH. INFRARED TECHNOLOGY WITH NEUTRAL, WATT STOPPER #WS-250, OR EQUAL BY SENSOR SWITCH, AND LEVITON.
S <sub>oc2</sub>	WALL MOUNTED OCCUPANCY SENSOR AND SWITCH. INFRARED TECHNOLOGY, WATT STOPPER #PW-200, SENSOR SWITCH, COOPER CONTROLS OR EQUAL. FOR INBOARD/OUTBOARD SWITCHING OR STEP BALLAST. SWITCH SHALL BE INSTALLED IN SINGLE GANG BOX.
OCDT	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY. SENSOR SWITCH CM PDT 10, WATT STOPPER #DT-300, COOPER OAC-DT OR EQUAL.
OCHB	HIGH BAY CEILING MOUNTED OCCUPANCY SENSOR, ULTRASONIC WATT STOPPER HB3X0-LX SERIES OR EQUAL.
VCDT	CEILING MOUNTED VACANCY SENSOR, DUAL TECHNOLOGY. SENSOR SWITCH, WATT STOPPER , COOPER OR EQUAL.
VCDTC	CORNER MOUNTED VACANCY SENSOR, DUAL TECHNOLOGY. SENSOR SWITCH, WATT STOPPER , COOPER OR EQUAL.
PP	CEILING MOUNTED OCCUPANCY SENSOR POWER PACK. SENSOR SWITCH PP-20, WATT STOPPER #BZ-100, COOPER SP-20, OR EQUAL.
$\bigcirc_1$	GENERATOR TRANSFER DEVICE FOR NORMAL LIGHTING CONTROL, SEE EMERG. LTG RELAY DETAIL. CONNECT TO LOCAL LIFE SAFETY BRANCH LIGHTING CIRCUIT. WHERE BI-LEVEL SWITCH CIRCUITING IS SHOWN FOR LIGHTING FIXTURE, PROVIDE A MINIMUM OF TWO GTD'S FOR LIGHTING FIXTURE(S). BASED ON BODINE GTD, EQUALS BY: DUAL LITE, IOTA, CHLORIDE, SCHNEIDER ELECTRIC.
$\bigcirc$	GENERATOR TRANSFER DEVICE FOR NORMAL LIGHTING CONTROL SEE FMERG LTG RELAY

$\bigcirc_{2}$	GENERATOR TRANSFER DEVICE FOR NORMAL LIGHTING CONTROL, SEE EMERG. LTG RELAY DETAIL. CONNECT TO LOCAL LIFE SAFETY BRANCH LIGHTING CIRCUIT. BASED ON BODINE
	GTD20A, EQUALS BY: DUAL LITE, IOTA, CHLORIDE, SCHNEIDER ELECTRIC.

	DRAWING LIST - ELECTRICAL
Sheet Number	Sheet Name
E-001	ELECTRICAL NOTES AND LEGENDS
E-002	ELECTRICAL PENETRATION DETAILS
E-003	ELECTRICAL DETAILS
E-004	ELECTRICAL DETAILS
E-005	ELECTRICAL DETAILS
E-006	ELECTRICAL DETAILS
E-007	ELECTRICAL DETAILS
E-010	ELECTRICAL SITE PLAN
E-011	SITE SPORTS LIGHTING
E-100	OVERALL EXTERIOR LIGHTING
E-101A	FIRST FLOOR LIGHTING PLAN AREA A
E-101A.1	FIRST FLOOR LIGHTING PLAN AREA A ALTERNATE
E-101A	FIRST FLOOR LIGHTING PLAN AREA B
E-101B	FIRST FLOOR LIGHTING PLAN AREA C
E-101C	SECOND FLOOR LIGHTING PLAN AREA C
	SECOND FLOOR LIGHTING PLAN AREA A
E-102A.1	
E-102B	SECOND FLOOR LIGHTING PLAN AREA B
E-103C	MEZZANINE LIGHTING PLAN
E-200	
E-201A	FIRST FLOOR POWER PLAN AREA A
E-201A.1	FIRST FLOOR POWER PLAN AREA A ALTERNATE
E-201B	FIRST FLOOR POWER PLAN AREA B
E-201C	FIRST FLOOR POWER PLAN AREA C
E-202A	SECOND FLOOR POWER PLAN AREA A
E-202A.1	SECOND FLOOR POWER PLAN AREA A ALTERNATE
E-202B	SECOND FLOOR POWER PLAN AREA B
E-203C	MEZZANINE POWER PLAN
E-251	OVERALL ROOF PLAN
E-300	OVERALL SPECIAL SYSTEMS PLAN
E-301A	FIRST FLOOR SYSTEMS PLAN AREA A
E-301A.1	FIRST FLOOR SYSTEMS PLAN AREA A ALTERNATE
E-301B	FIRST FLOOR SYSTEMS PLAN AREA B
E-301C	FIRST FLOOR SYSTEMS PLAN AREA C
E-302A	SECOND FLOOR SYSTEMS PLAN AREA A
E-302A.1	SECOND FLOOR SYSTEMS PLAN AREA A ALTERNATE
E-302B	SECOND FLOOR SYSTEMS PLAN AREA B
E-303C	MEZZANINE SYSTEMS PLAN
E-401	ENLARGED CLASSROOM PLANS
E-401	ENLARGED ELECTRICAL AND DATA ROOMS
E-402 E-403	ENLARGED ELECTRICAL AND DATA ROOMS
	ENLARGED KITCHEN PLAN - POWER
E-404	
E-501	
E-601	
E-602	
E-603	MECHANICAL SCHEDULE
E-701	PANEL SCHEDULES
E-702	PANEL SCHEDULES
E-703	PANEL SCHEDULES
E-704	PANEL SCHEDULES
E-705	PANEL SCHEDULES

## CONDUCTOR TABLE

EC SHALL FOLLOW AND APPLY THE TABLE BELOW, REGARDLESS WHAT THE PANEL SCHEDULE INDICATES, FOR SIZING ALL 120V AND 277V, 20 AMP BRANCH CIRCUIT COPPER CONDUCTORS TO ALLOW A MAXIMUM OF 3% VOLTAGE DROP ACROSS THE ENTIRE BRANCH CIRCUIT:

VOLTS	CONDUCTOR LENGTH**	HOMERUN/BRANCH CIRCUIT
120	0' - 85'	#12
120	85' - 135'	#10
120	135' - 200'	#8
120	200' - 320'	#6
277	0' - 180'	#12
277	180' - 300'	#10
277	300' - 420'	#8
277	420' - 600'	#6

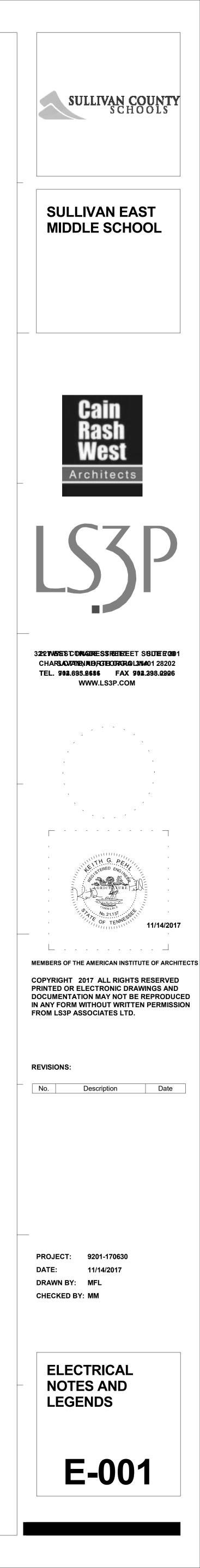
\*\*THE LENGTH IS MEASURED FROM THE CIRCUIT BREAKER TO THE MIDDLE OF THE MULTI-DEVICE BRANCH CIRCUIT BETWEEN THE FIRST AND LAST DEVICE FOR WHICH THE CIRCUIT SERVES.

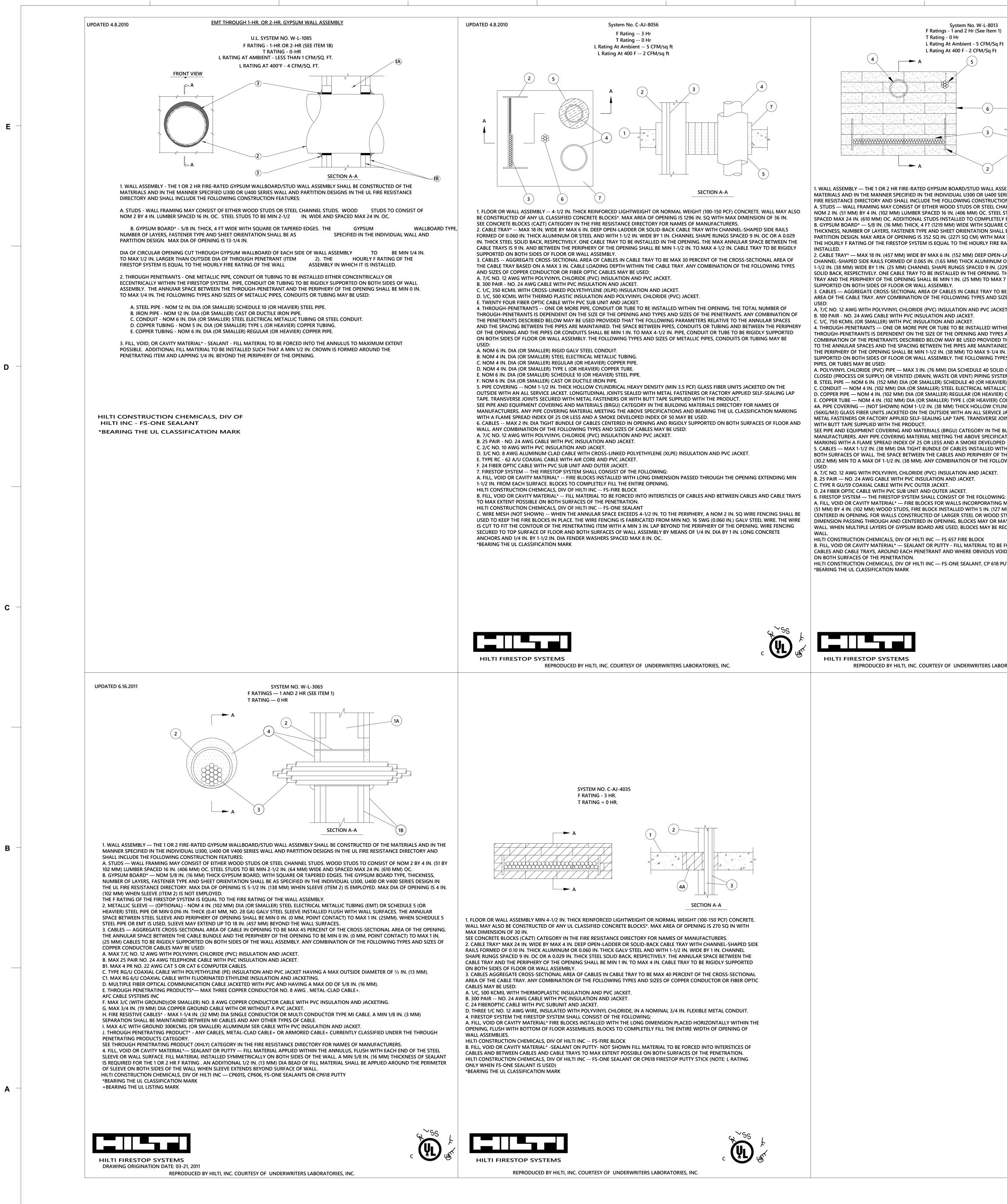
### ALTERNATES

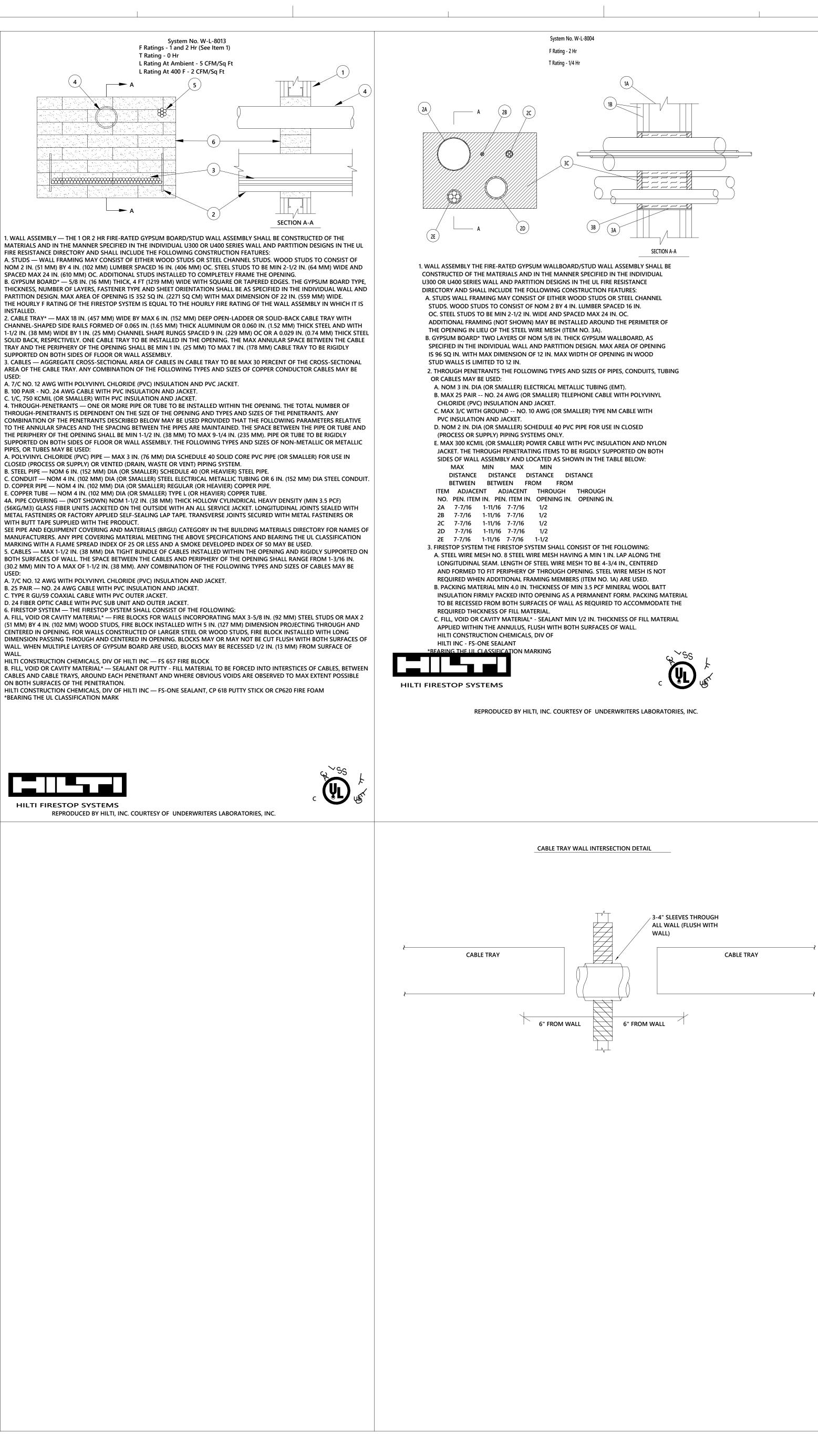
CLASSROOM ADDITION ALTERNATE - SEE RESPECTIVE SHEETS DETAILING "ALTERNATE".

## GENERAL TELECOM SYSTEM NOTES

- <u>NOTES:</u> 1. ALL CONDUIT RACEWAYS AND CABLE TRAY SHALL BE PROVIDED BY EC. FOR ALL SYSTEMS. 2. LOW VOLTAGE CABLING AND EQUIPMENT FOR DATA, PHONE, CABLE TV, INTERCOM, SMALL SOUND
- SYSTEMS, INTRUSION DETECTION, CARD ACCESS, ASSISTED LISTENING, AND SECURITY CAMERAS ACCESS ARE NOT IN THIS CONTRACT. CABLING AND EQUIPMENT WILL BE BY OTHERS. 3. TURN KEY FIRE ALARM, TWO WAY ELEVATOR COMMUNICATION, AND BOOSTING RADIO SYSTEM ARE BY
- THE EC. (INCLUDING ALL CABLING, COMPONENTS AND PATHWAYS.) 4. ALL CONDUIT RACEWAYS SHALL BE INSTALLED CONCEALED ABOVE CEILINGS OR IN WALLS. NO LOW
- VOLTAGE CABLING PATHWAY SHALL BE UNDERGROUND/BELOW SLAB OTHER THAN THE SERVICE ENTRANCE CONDUITS AND PATHWAYS FEEDING FLOORBOXES. 5. CABLE TRAY AND CABLE TRAY SUPPORTS SHALL NOT SUPPORT ELECTRICAL CONDUITS OR CABLES NOR SHALL ELECTRICAL CONDUCTORS BE ROUTED IN CABLE TRAY. ELECTRICAL CONDUITS SHALL BE A MINIMUM OF 12" AWAY FROM CABLE TRAY TO MINIMIZE ELECTRICAL MAGNETIC INTERFERENCE.







SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

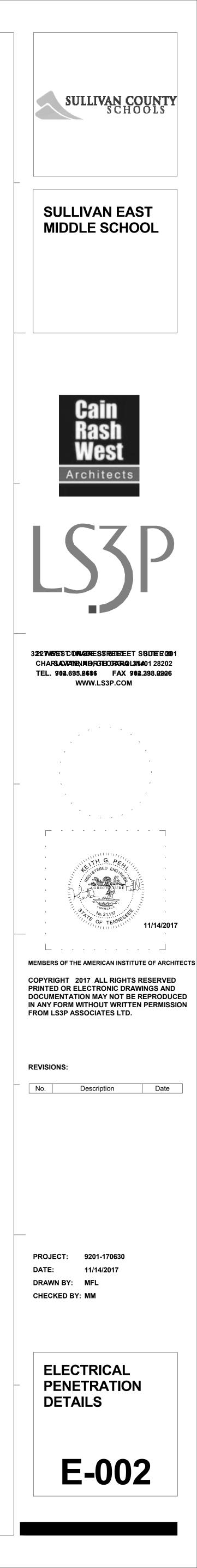
A. 7/C NO. 12 AWG WITH POLYVINYL CHLORIDE (PVC) INSULATION AND PVC JACKET. B. 100 PAIR - NO. 24 AWG CABLE WITH PVC INSULATION AND JACKET. C. 1/C, 750 KCMIL (OR SMALLER) WITH PVC INSULATION AND JACKET.

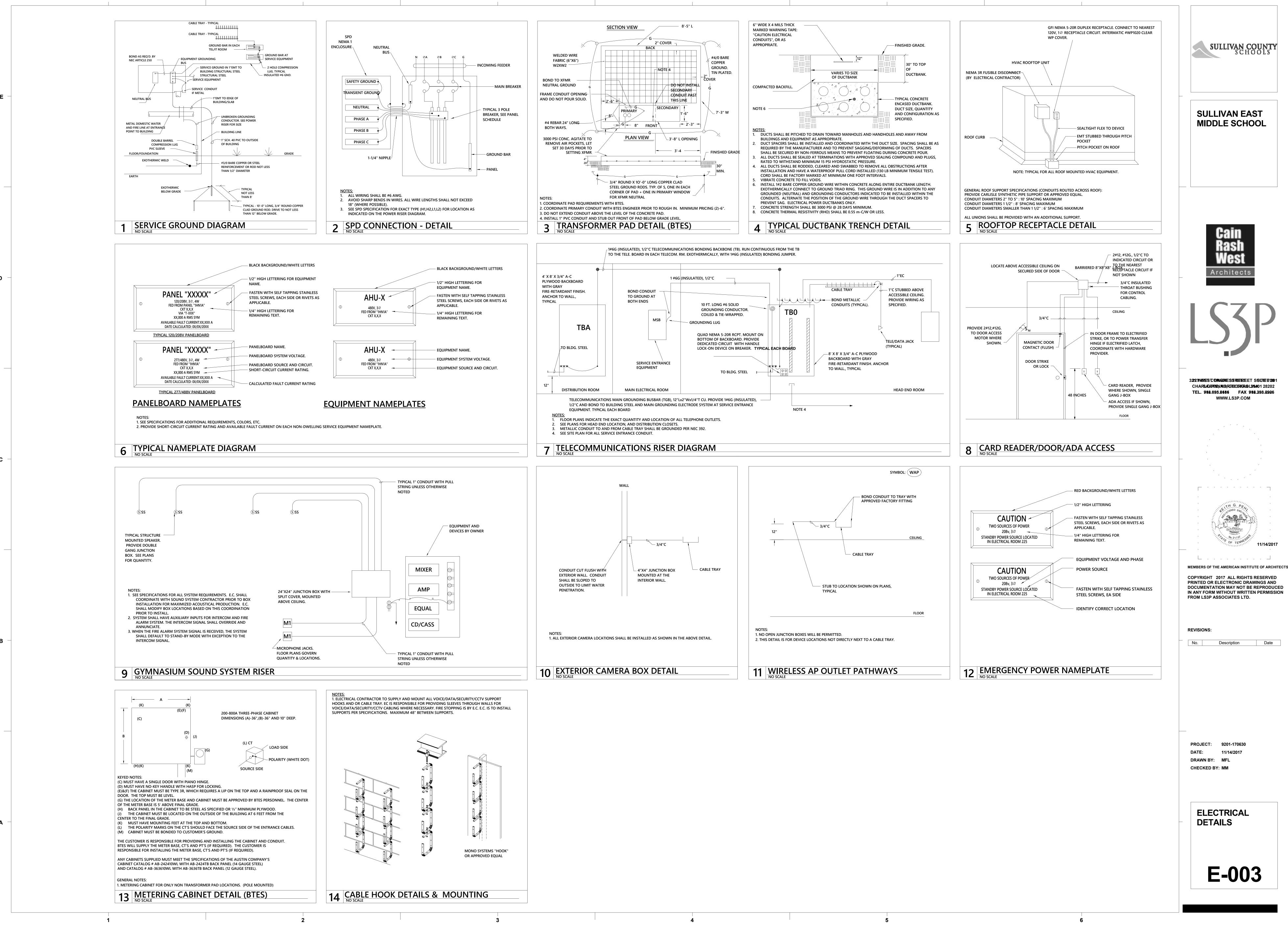
CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEM. WITH BUTT TAPE SUPPLIED WITH THE PRODUCT.

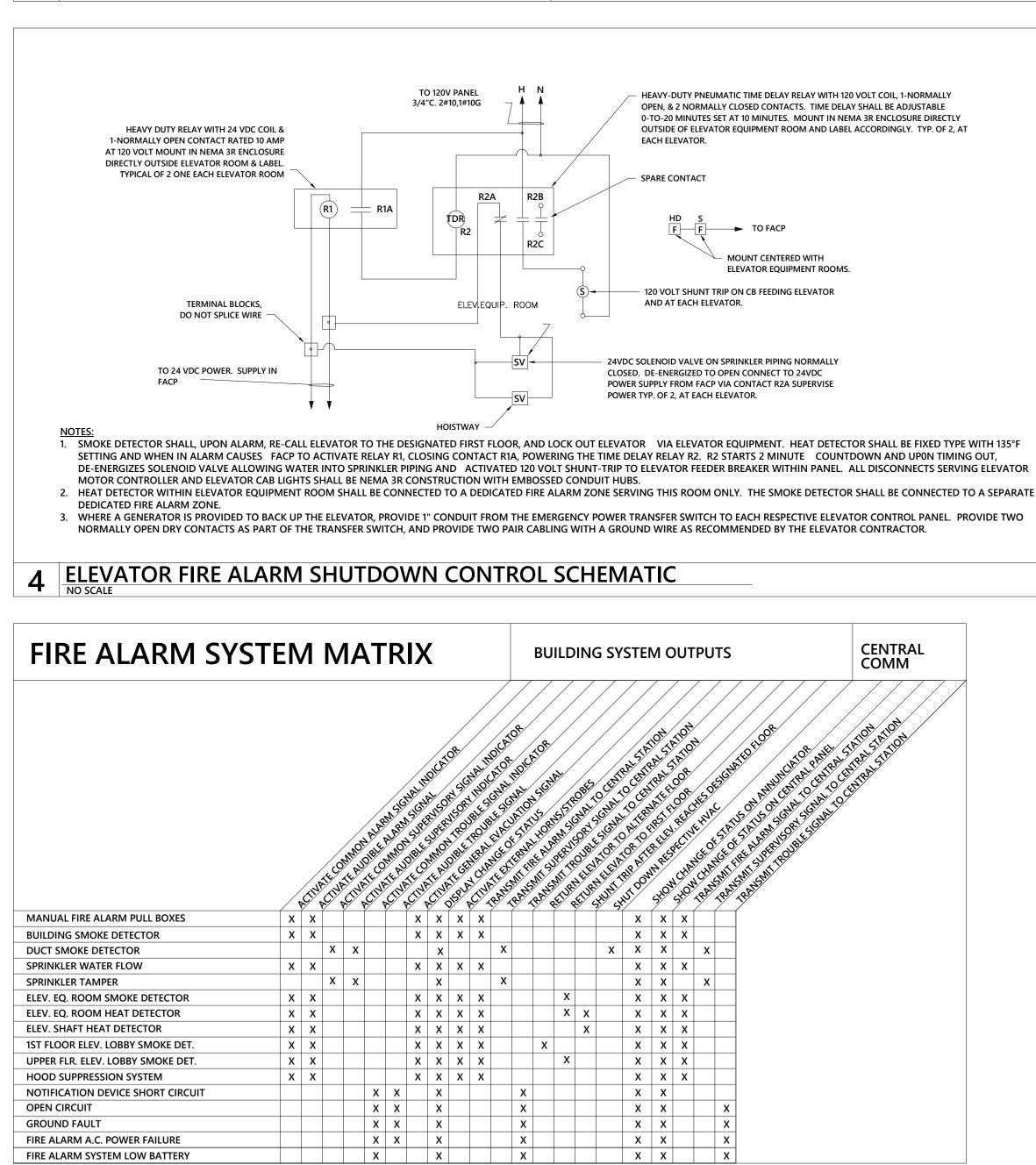
A. 7/C NO. 12 AWG WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET.

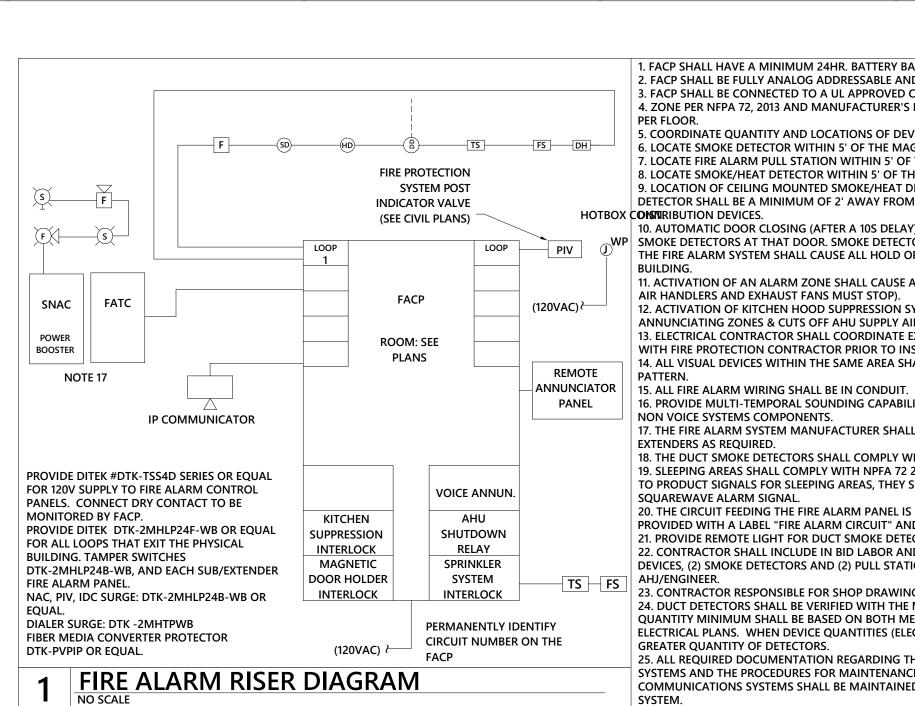
B. 25 PAIR — NO. 24 AWG CABLE WITH PVC INSULATION AND JACKET. C. TYPE R GU/59 COAXIAL CABLE WITH PVC OUTER JACKET. D. 24 FIBER OPTIC CABLE WITH PVC SUB UNIT AND OUTER JACKET.

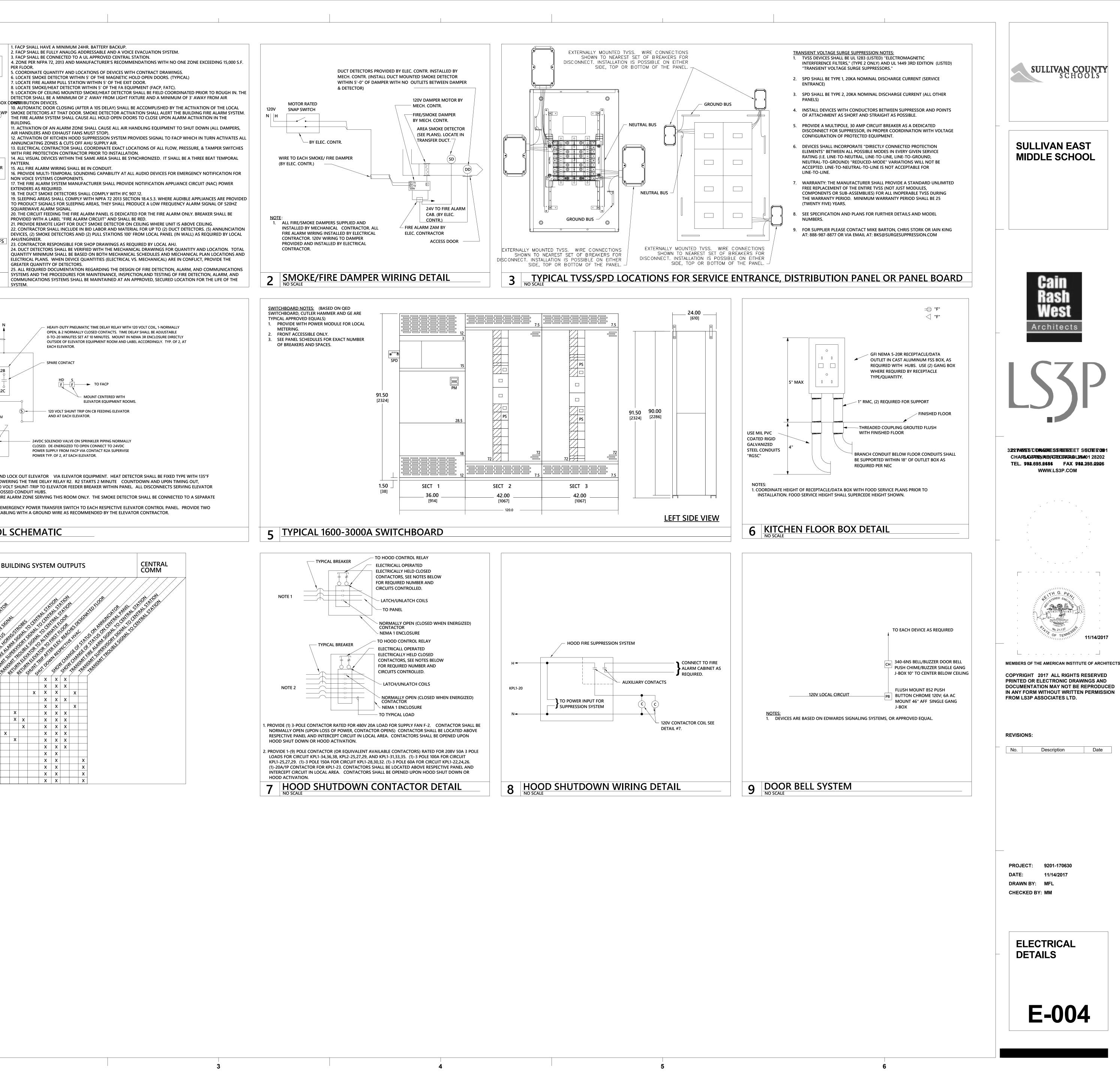
HILTI CONSTRUCTION CHEMICALS. DIV OF HILTI INC — FS 657 FIRE BLOCK

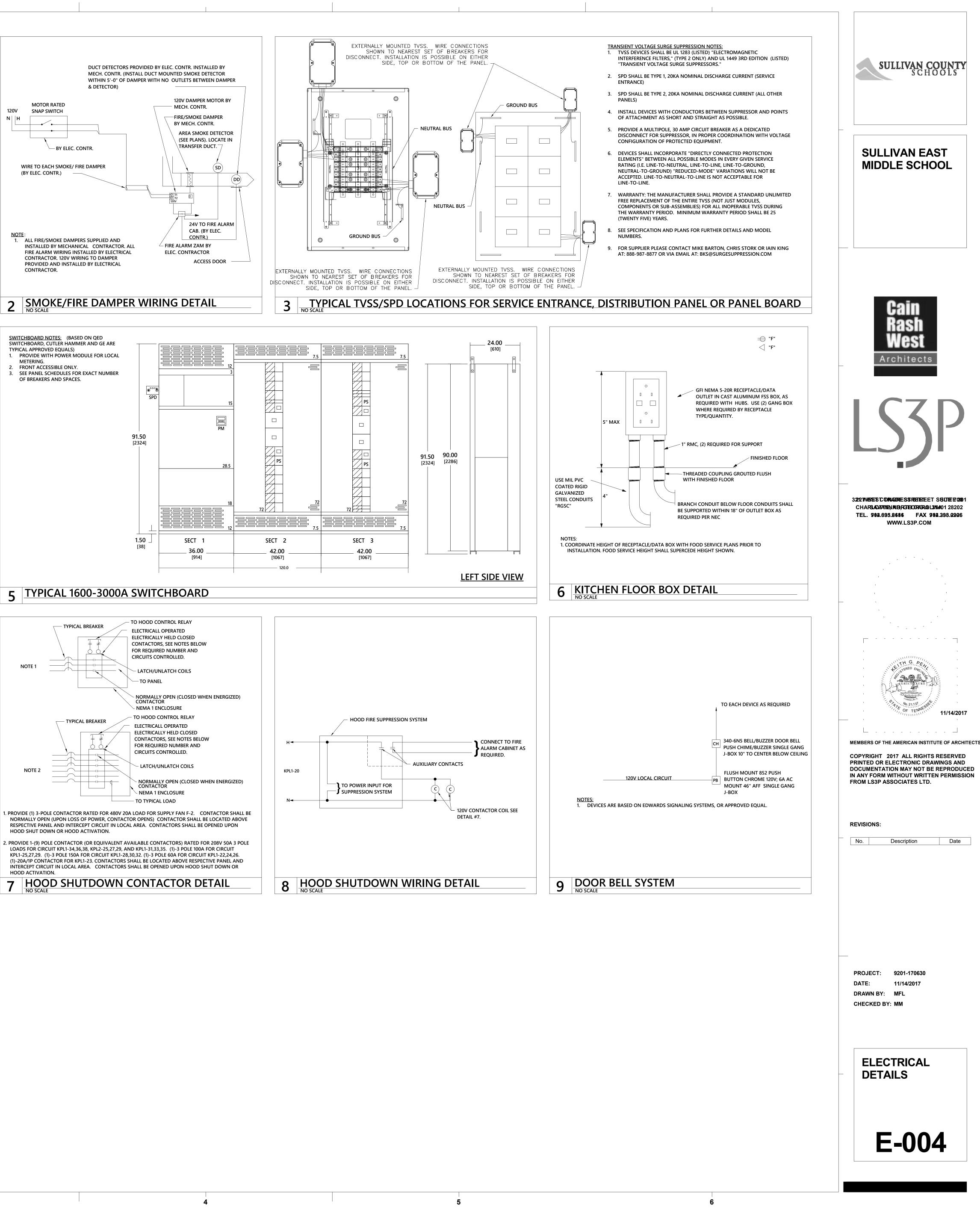


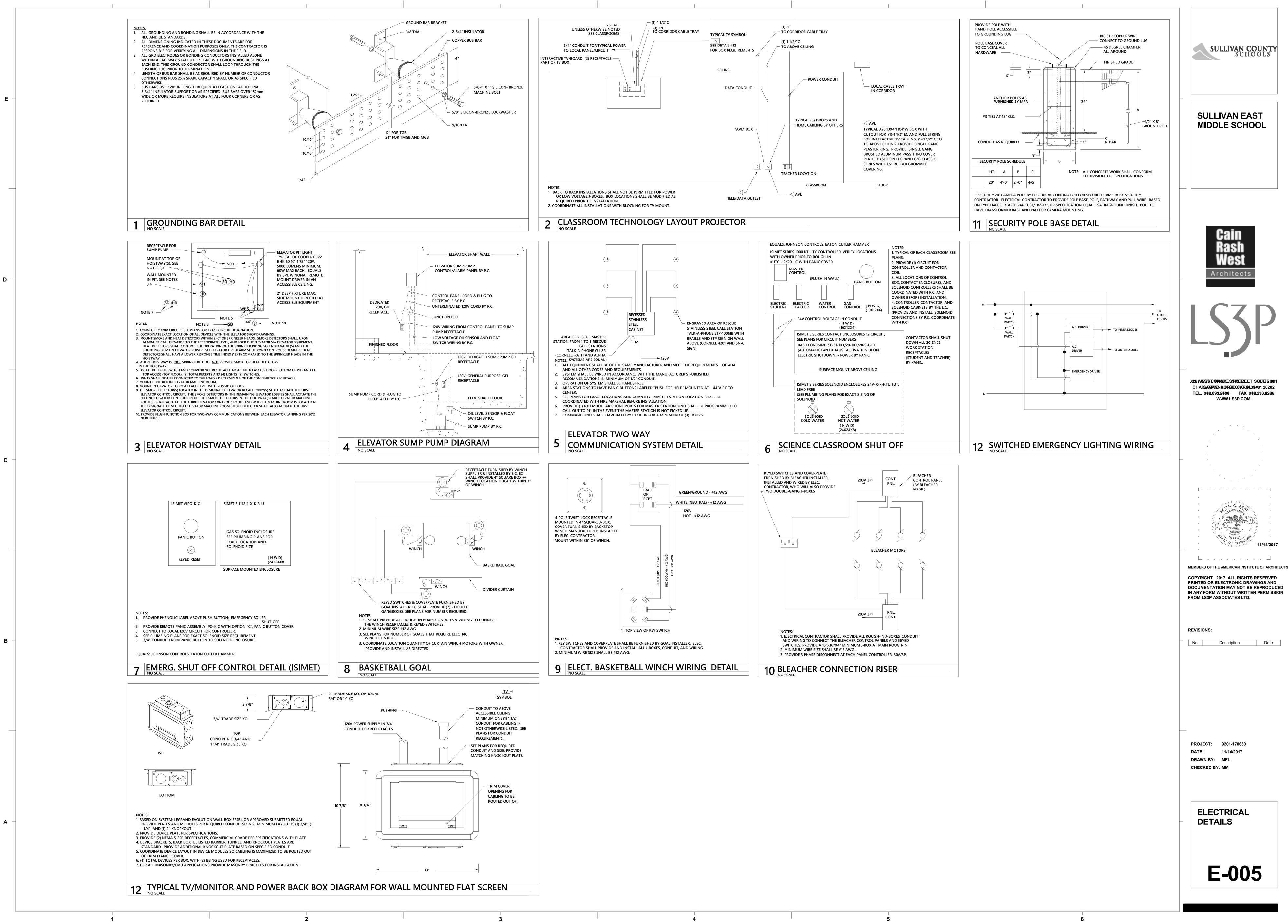


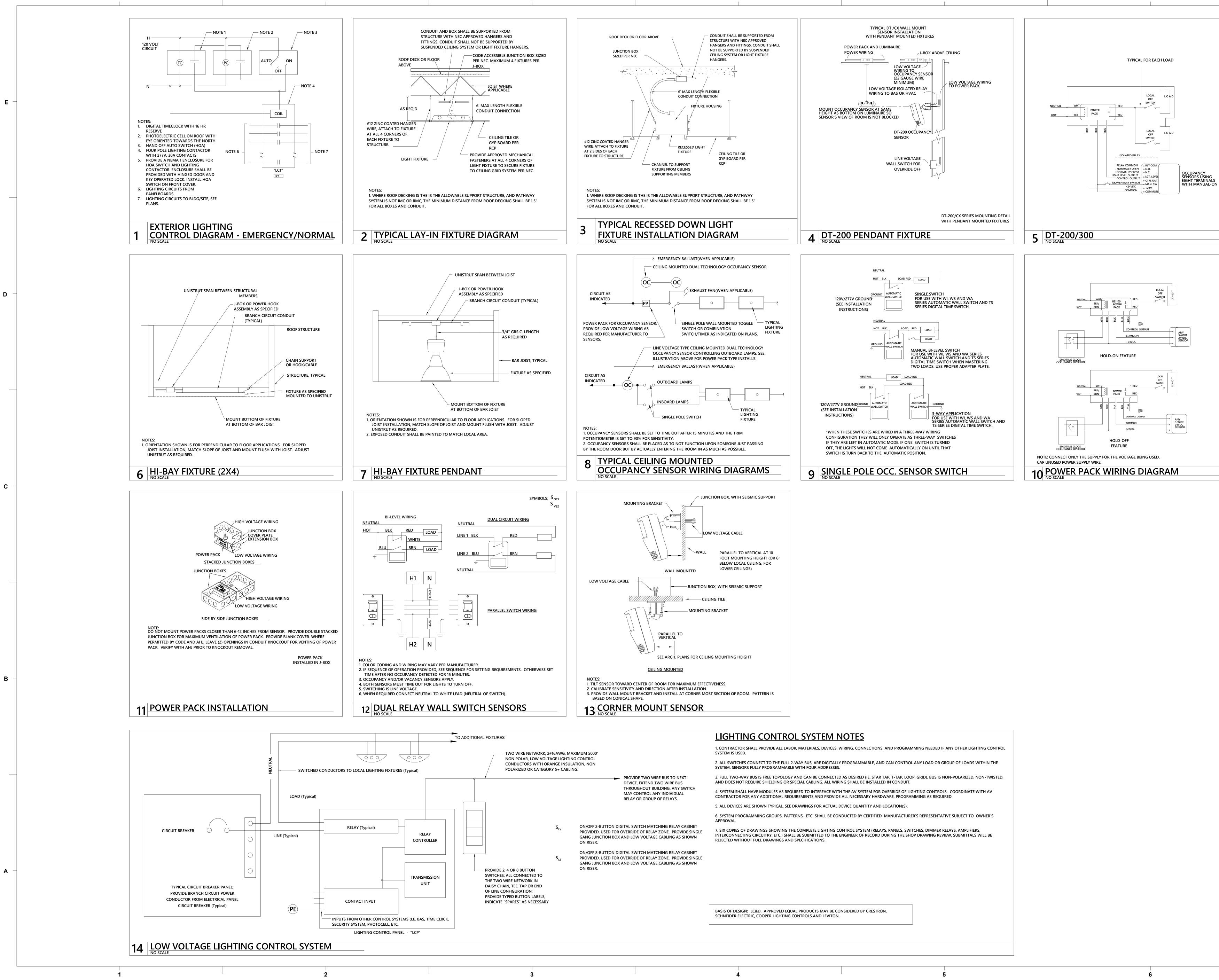


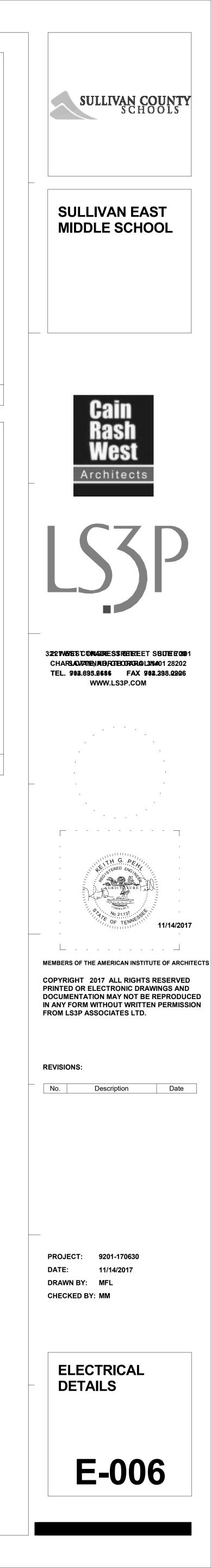


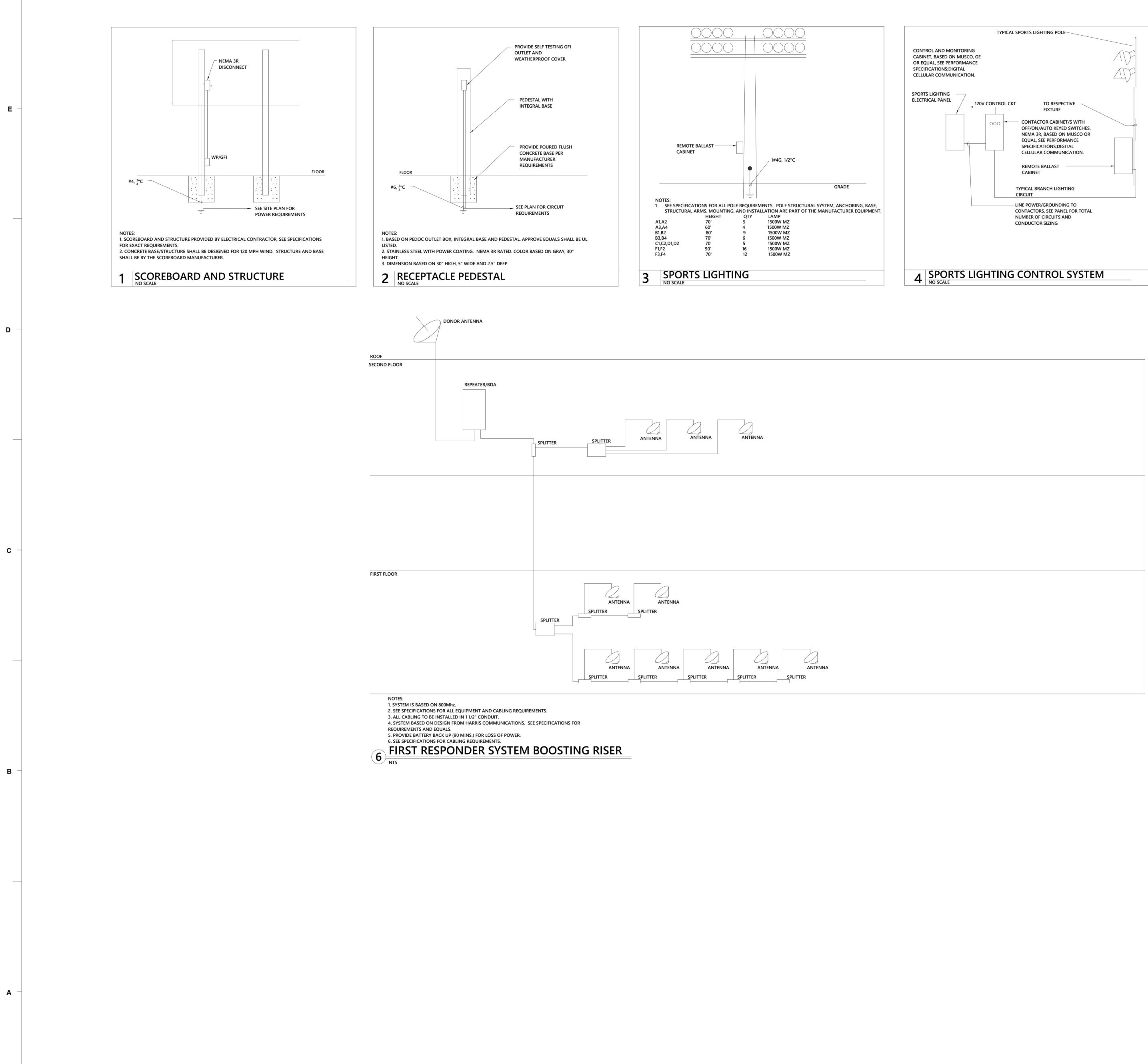




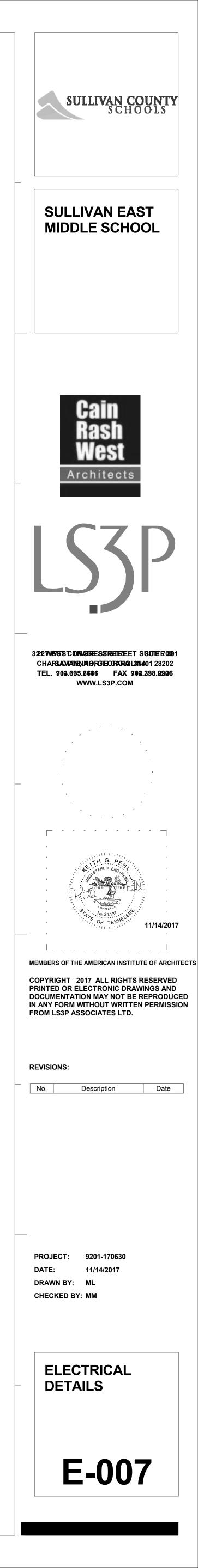


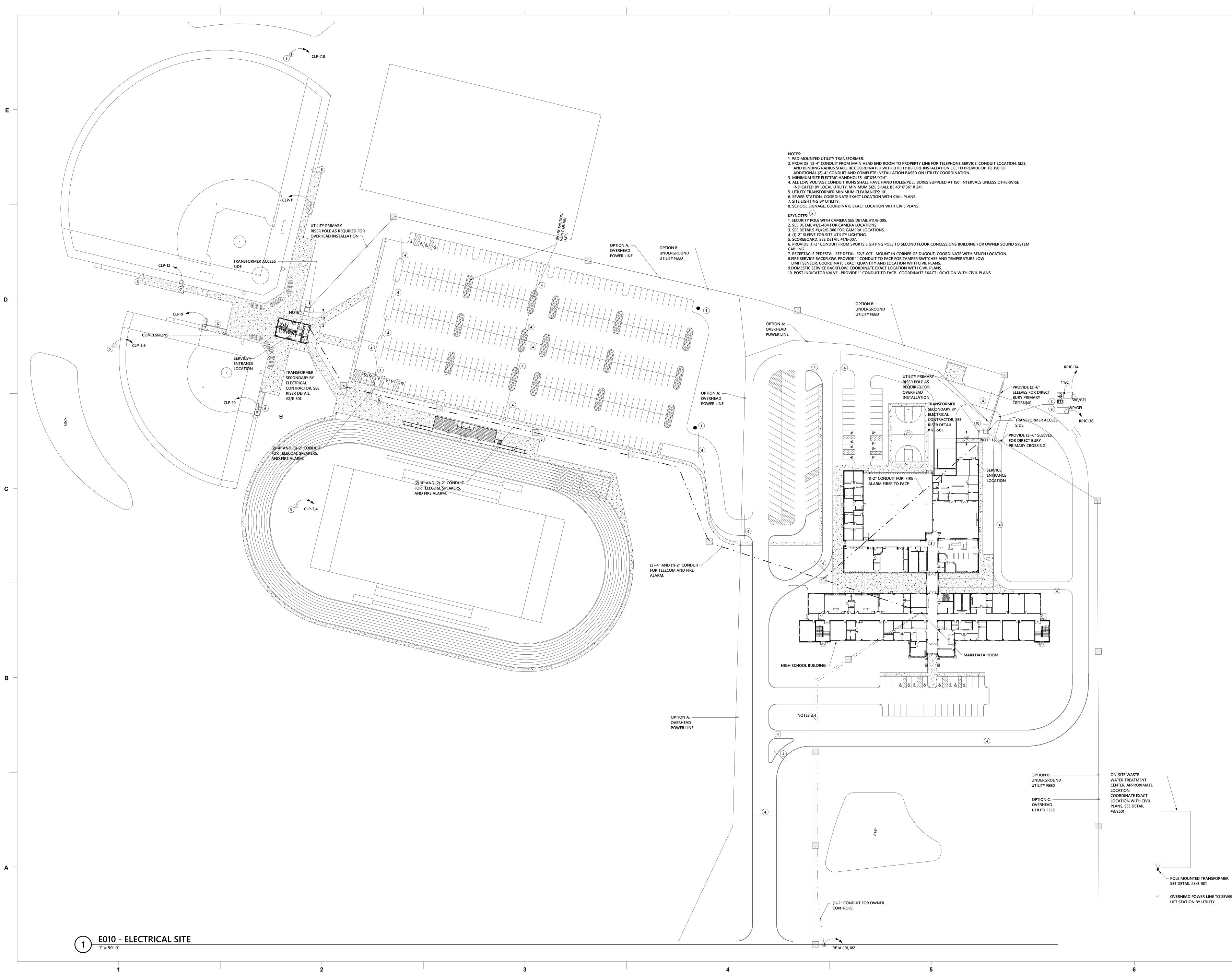


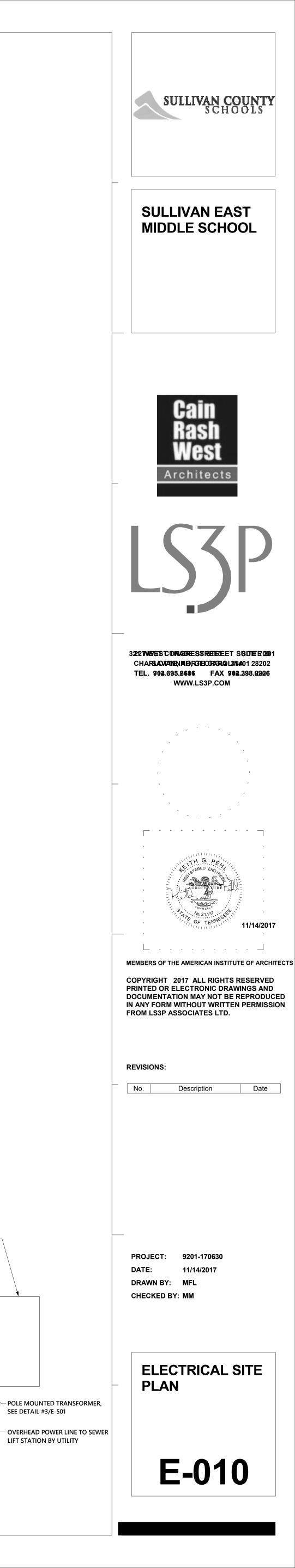


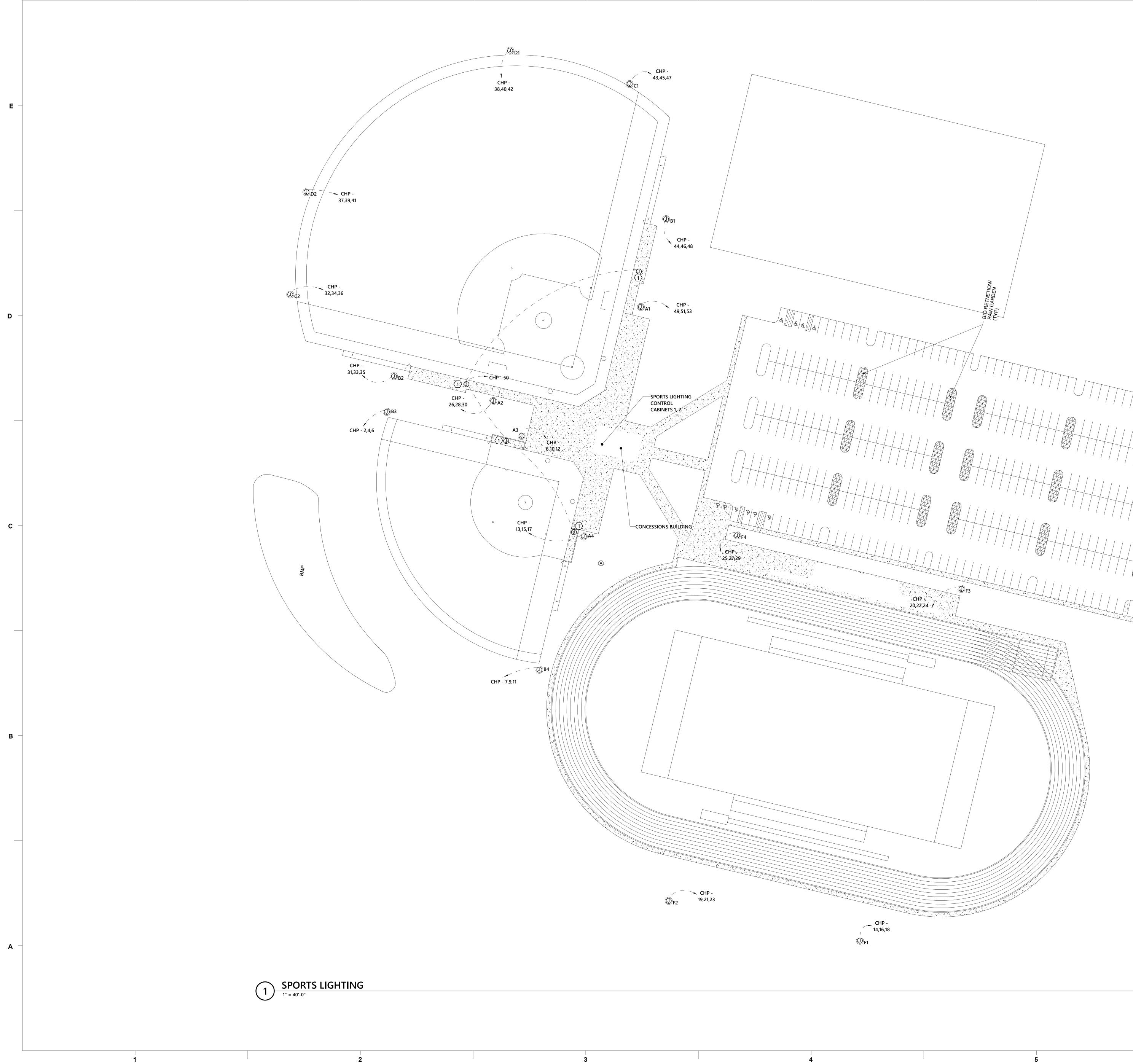


SEE DETAIL: #17 FOR TYPICAL CONTROL CABINET
CONTACTOR ZONING:
CABINET 1: F1,F2,F3,F4 VIA RESPECTIVE CONTACTORS ZONE 1 (FOOTBALL/TRACK)
CABINET 2:
A1,A2,B1,B2,C1,C2,D1,D2 VIA RESPECTIVE CONTACTORS ZONE 1 (BASEBALL)
A3,A4,B3,B4 VIA RESPECTIVE CONTACTORS ZONE 2 (SOFTBALL)
CABINET 1:
F1: (16 FIXTURES) 40.7 AMPS
F2: (16 FIXTURES) 40.7 AMPS F3: (12 FIXTURES) 29.6 AMPS
F4: (12 FIXTURES) 29.6 AMPS
CABINET 2:
A1/A2: (5 FIXTURES) 14.8 AMPS
B1/B2: (9 FIXTURES) 22.2 AMPS C1/C2/D1/D2/A3/A4: (4 FIXTURES) 11.1 AMPS
B3/B4: (6 FIXTURES) 14.8AMPS (ALTERNATING DRAW)
SPORTS LIGHTING CONTROL ZONING
NO SCALE



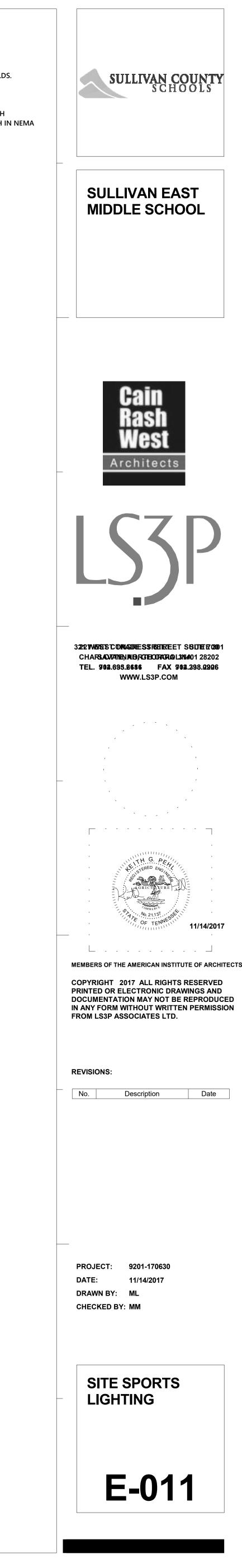


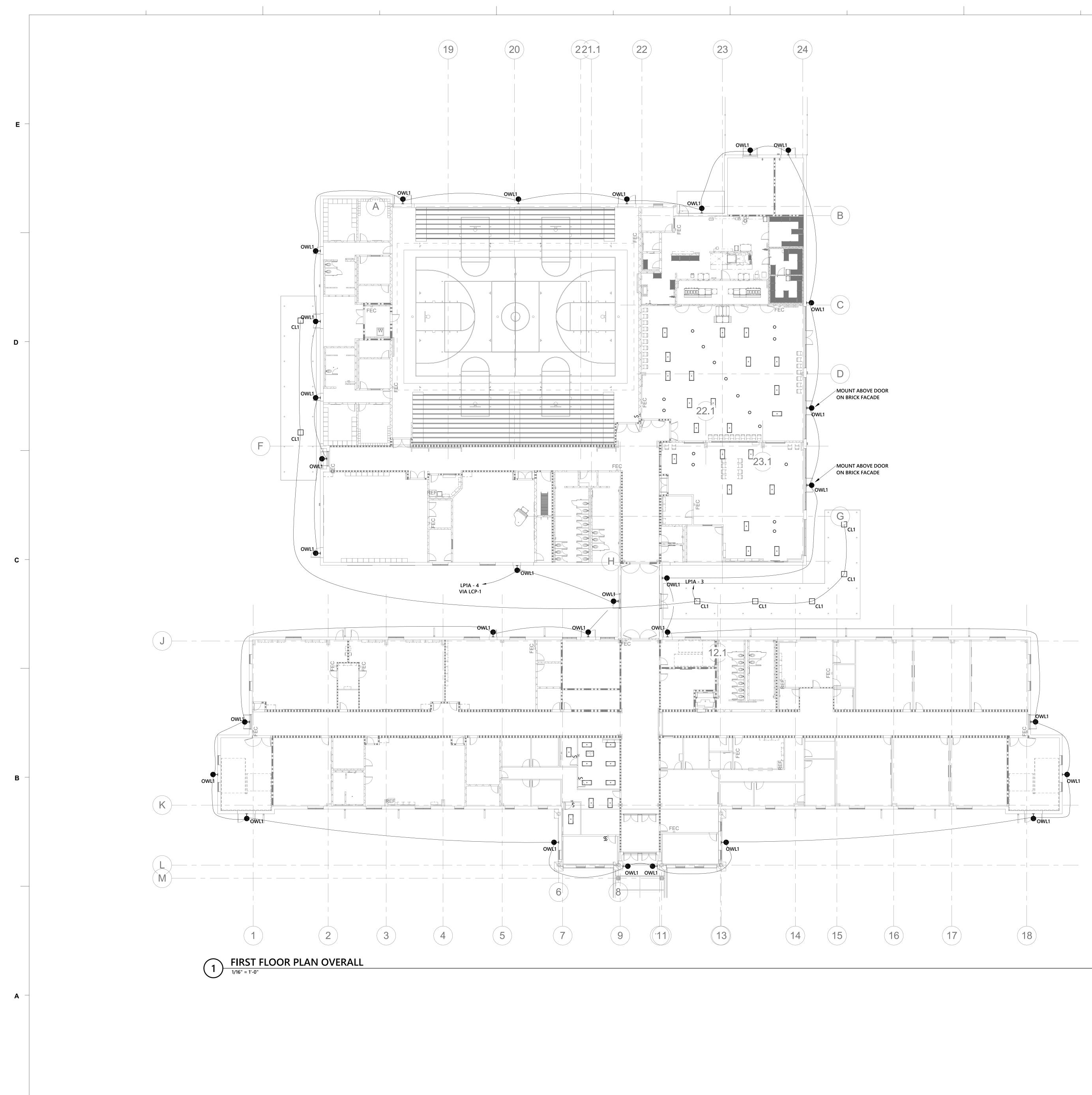


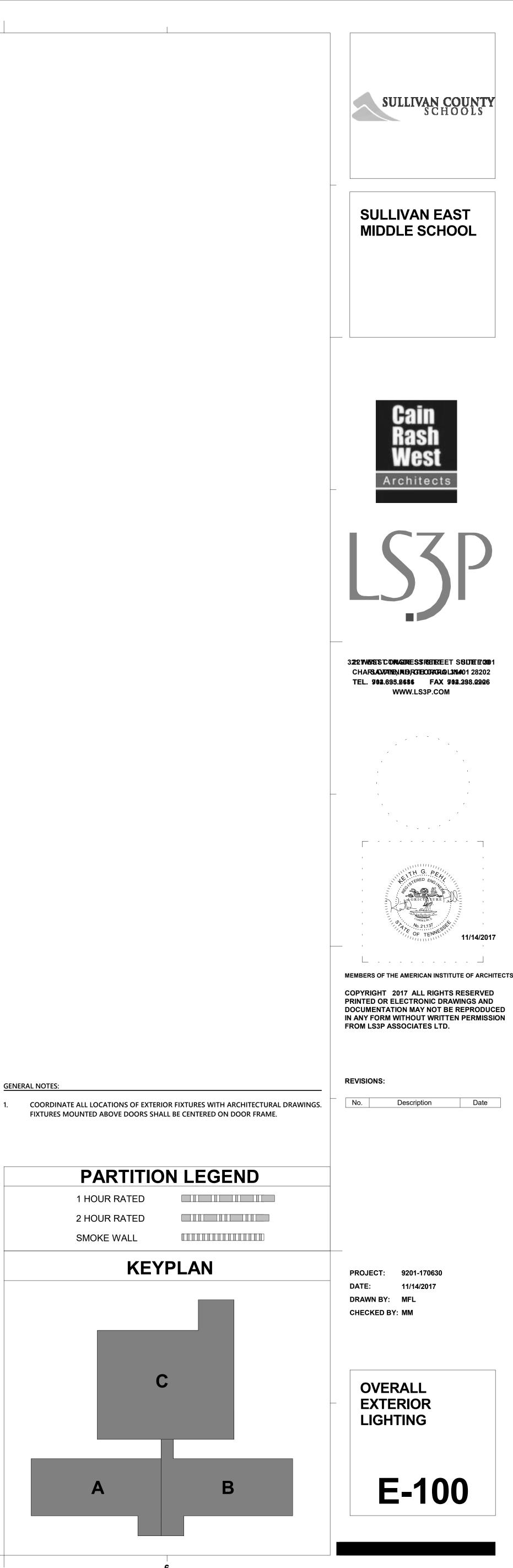


# GENERAL NOTES: 1. ALL BRANCH CIRCUITS AND FEEDERS SHALL BE ROUTED AROUND SPORTS FIELDS.

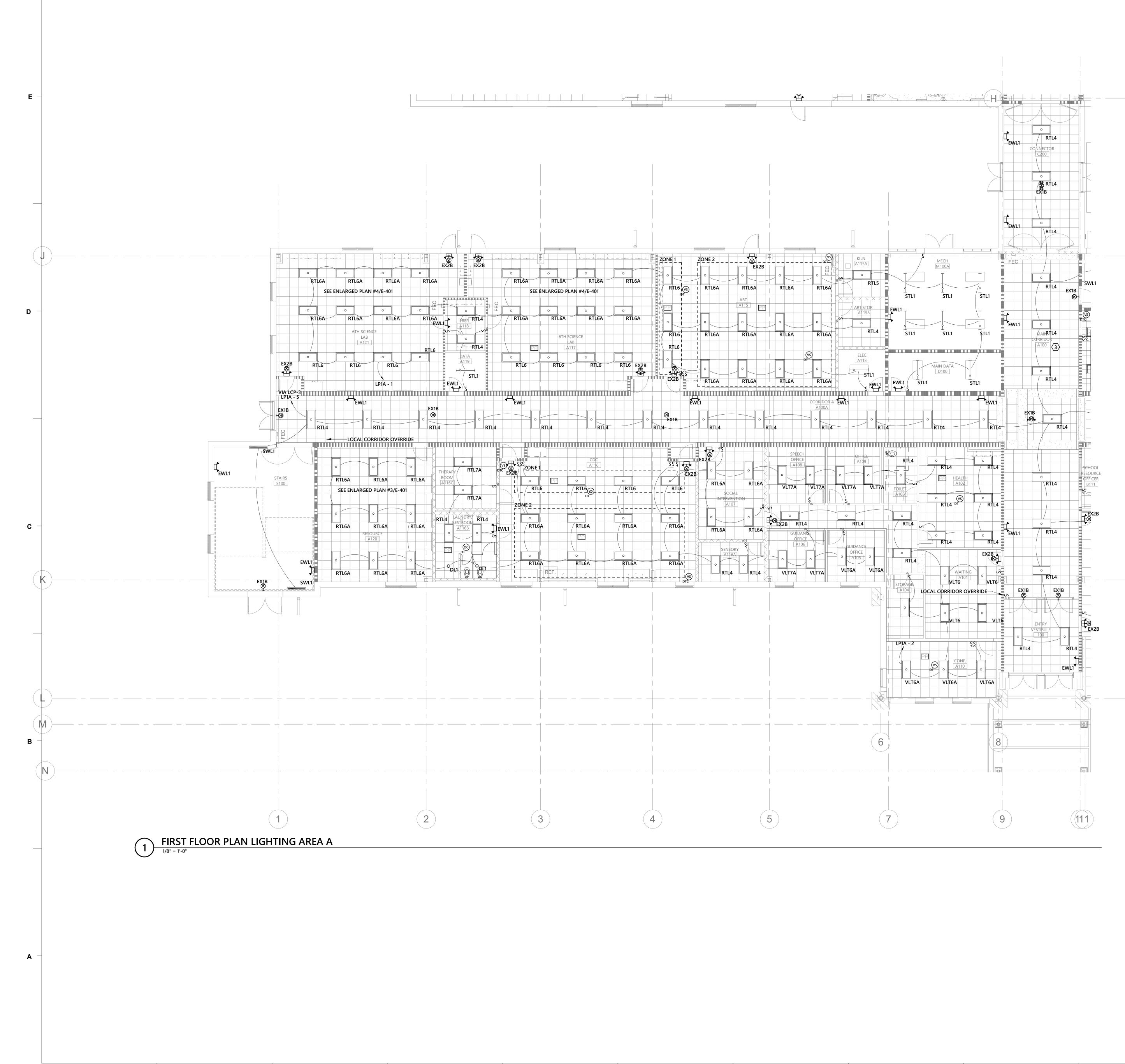
 KEYED NOTES:
 1. PROVIDE (2) TYPE VRS1 FIXTURES IN DUGOUT. COORDINATE MOUNTING WITH ARCHITECT DUGOUT PLANS. PROVIDE 4 HOUR 277V MECHANICAL TIME SWITCH IN NEMA 3R SWITCH ENCLOSURE. MOUNT AT ENTRY OF EACH DUGOUT.







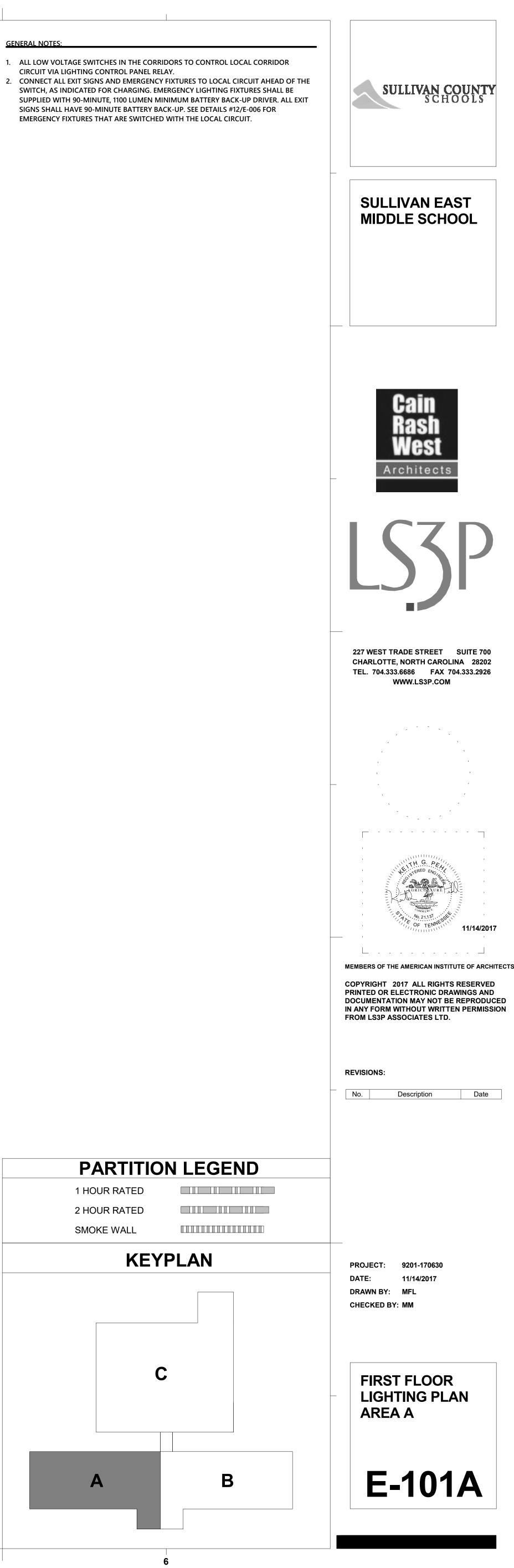
1.

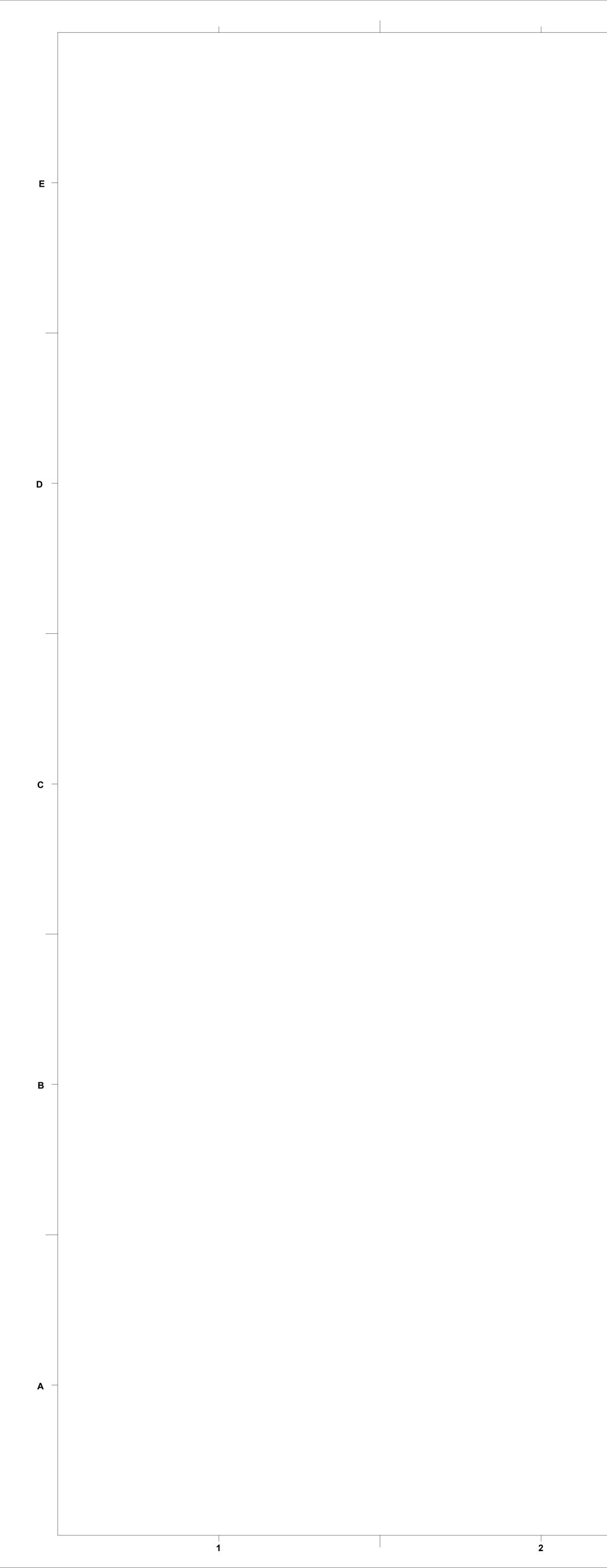


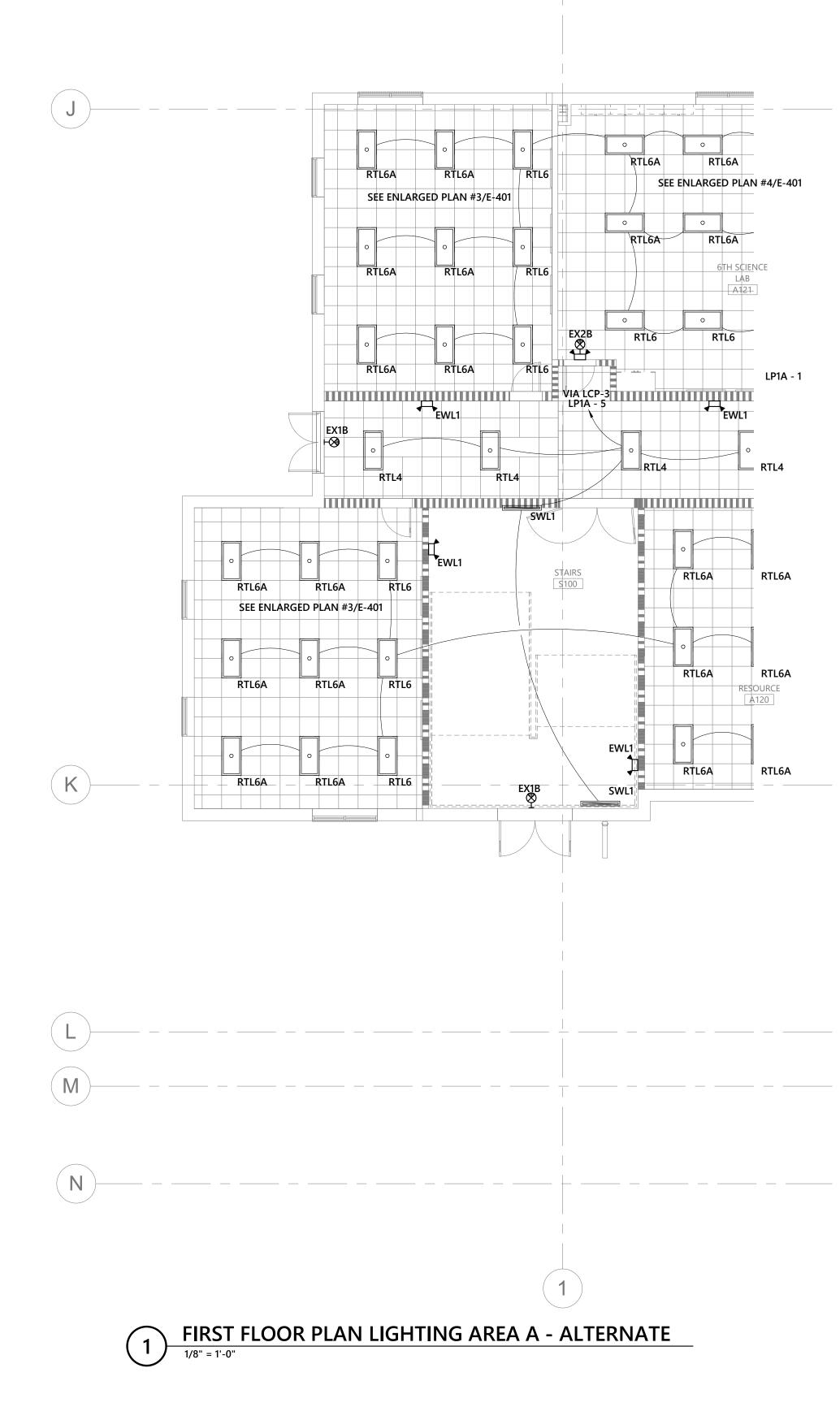
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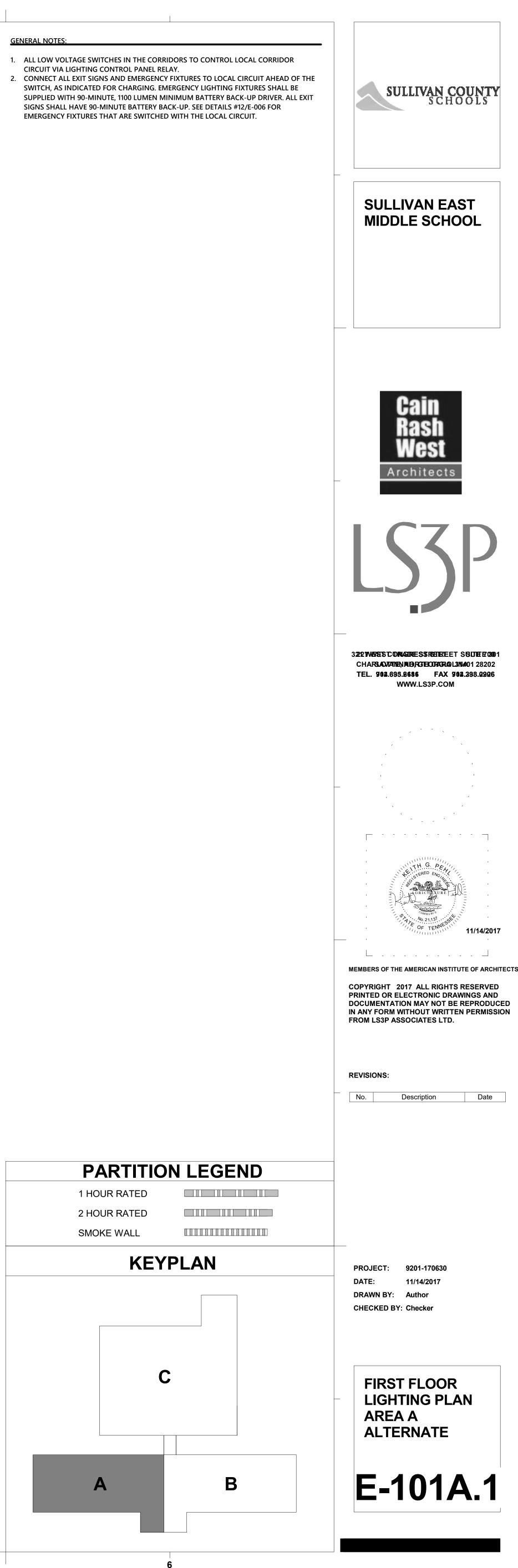
GENERAL NOTES

CIRCUIT VIA LIGHTING CONTROL PANEL RELAY.











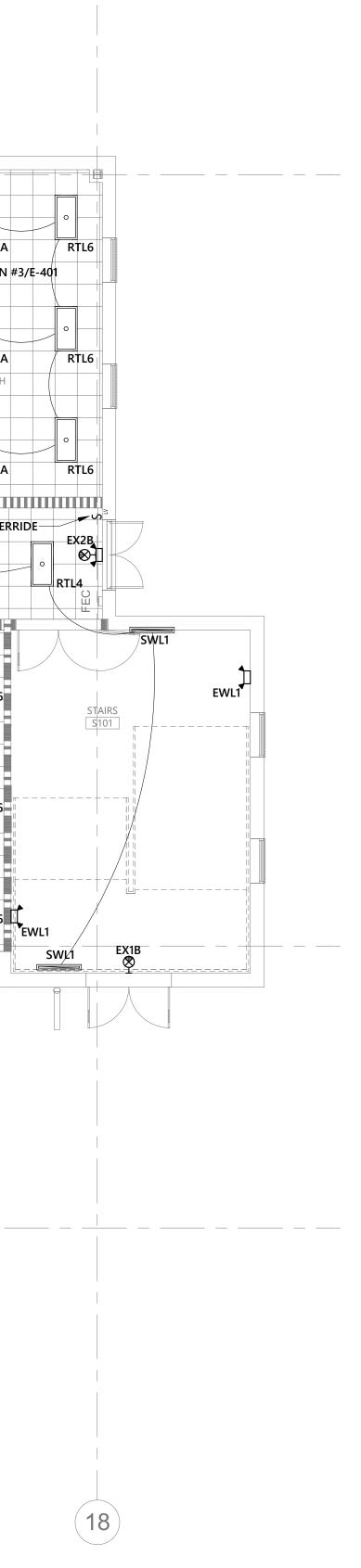
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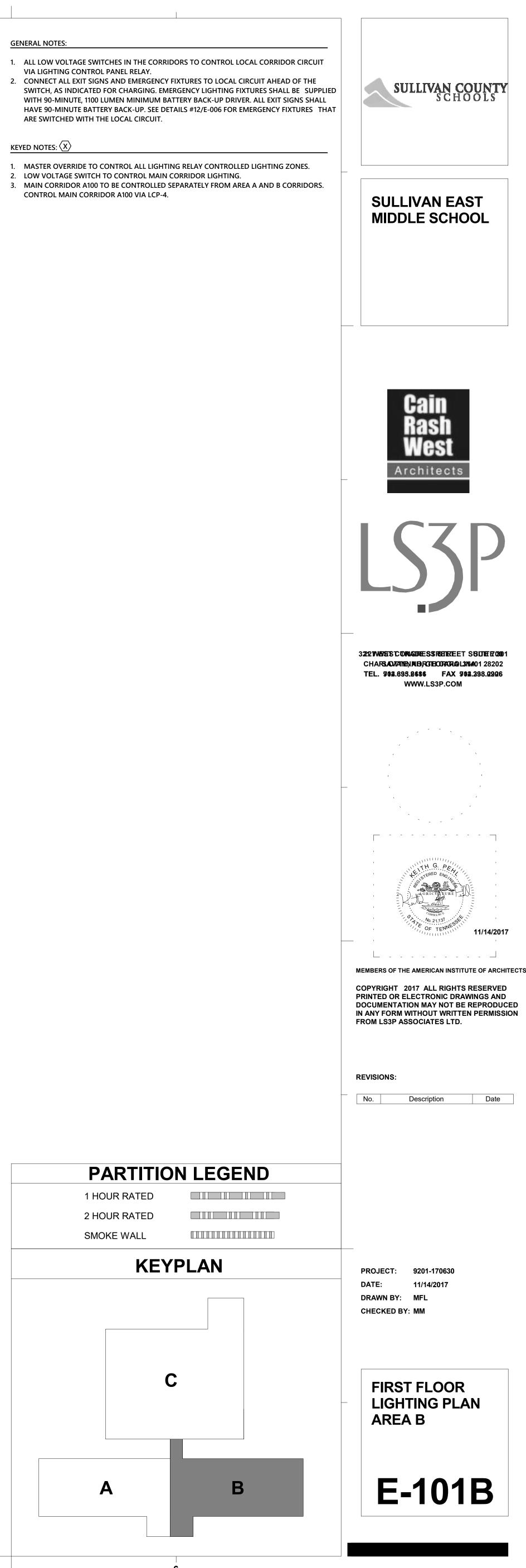
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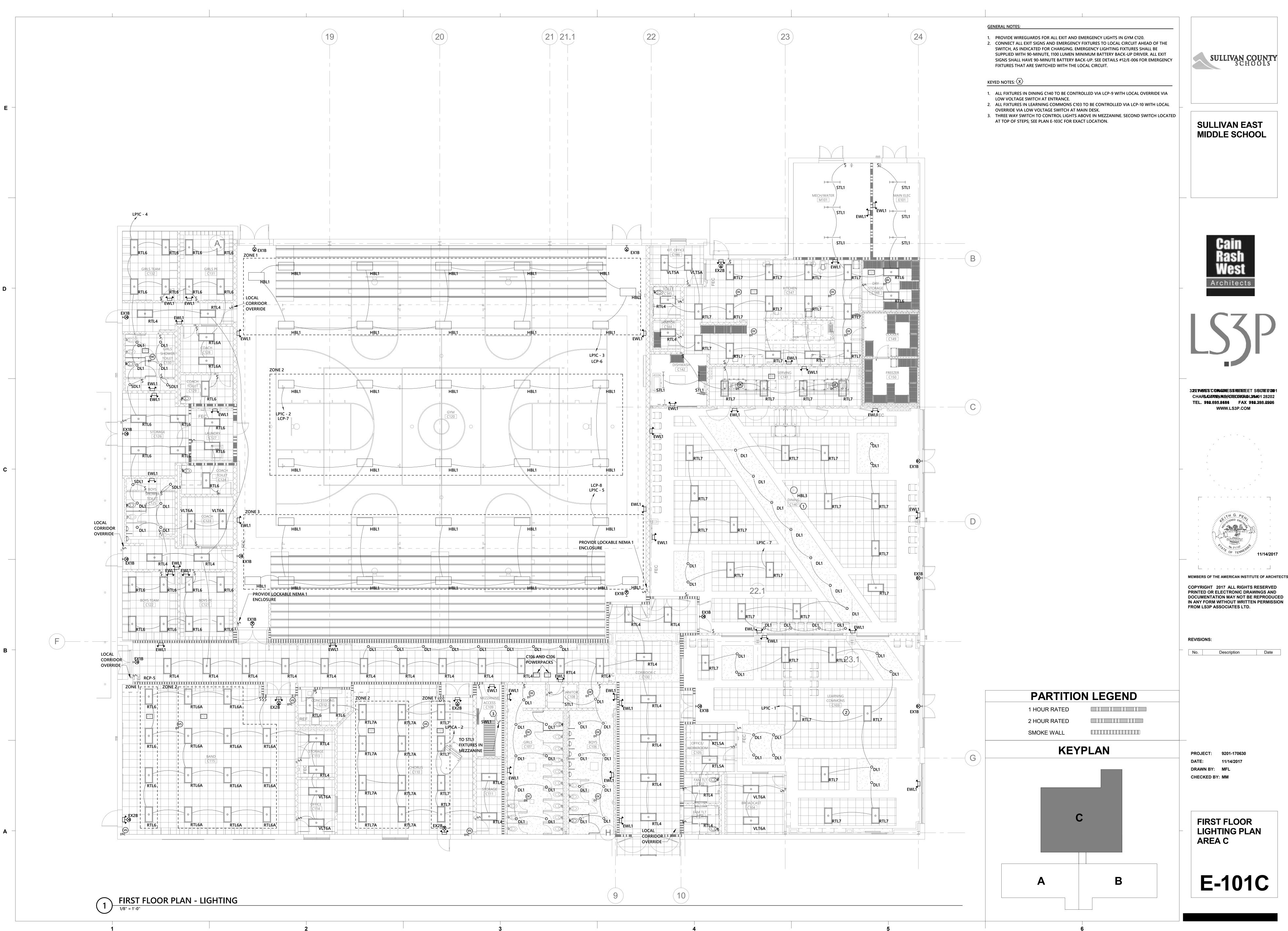
		3 E-401		
	RTL4 RTL6 RTL4 RTL6 RTL6 RTL6 RTL6 RTL6 RTL4 RTL6	O     O     O       O     RTL6A     O       OTH     O     RTL6	0 0   RTL6A RTL6A   SEE ENLARGED PLAN #3/E-   0 0   RTL6A RTL6A   0 0   RTL6A RTL6A   RTL6A RTL6A	0 RTL6   RTL6 RTL6A   RTL6A RTL6A

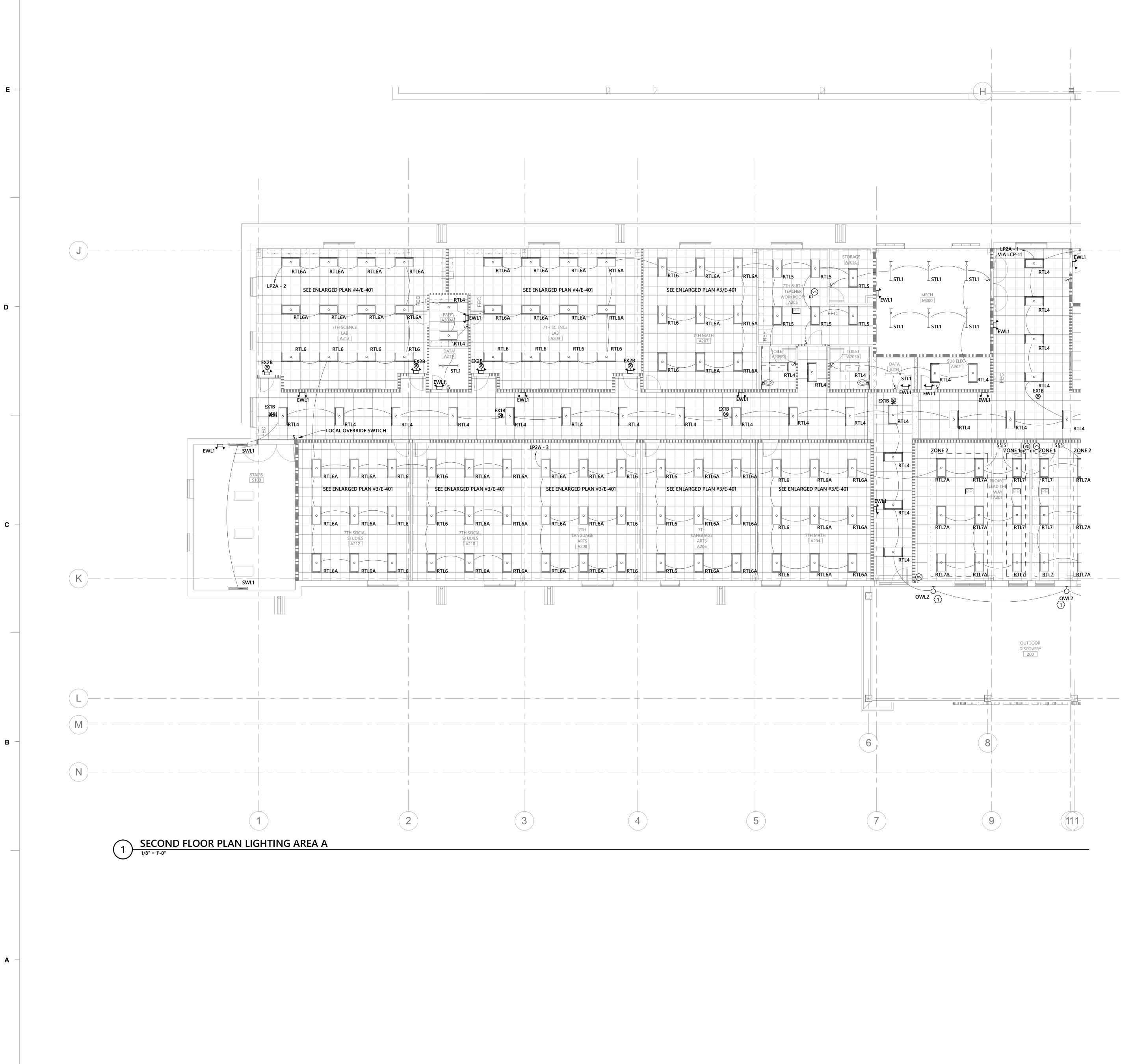
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2. LOW VOLTAGE SWITCH TO CONTROL MAIN CORRIDOR LIGHTING.



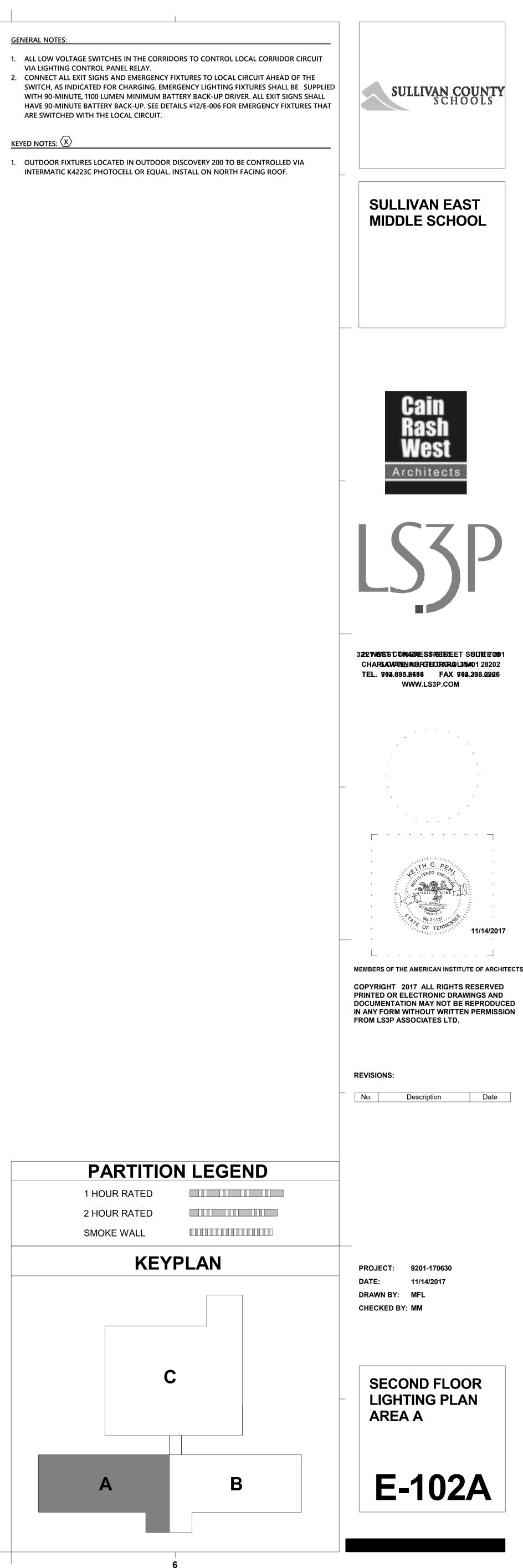


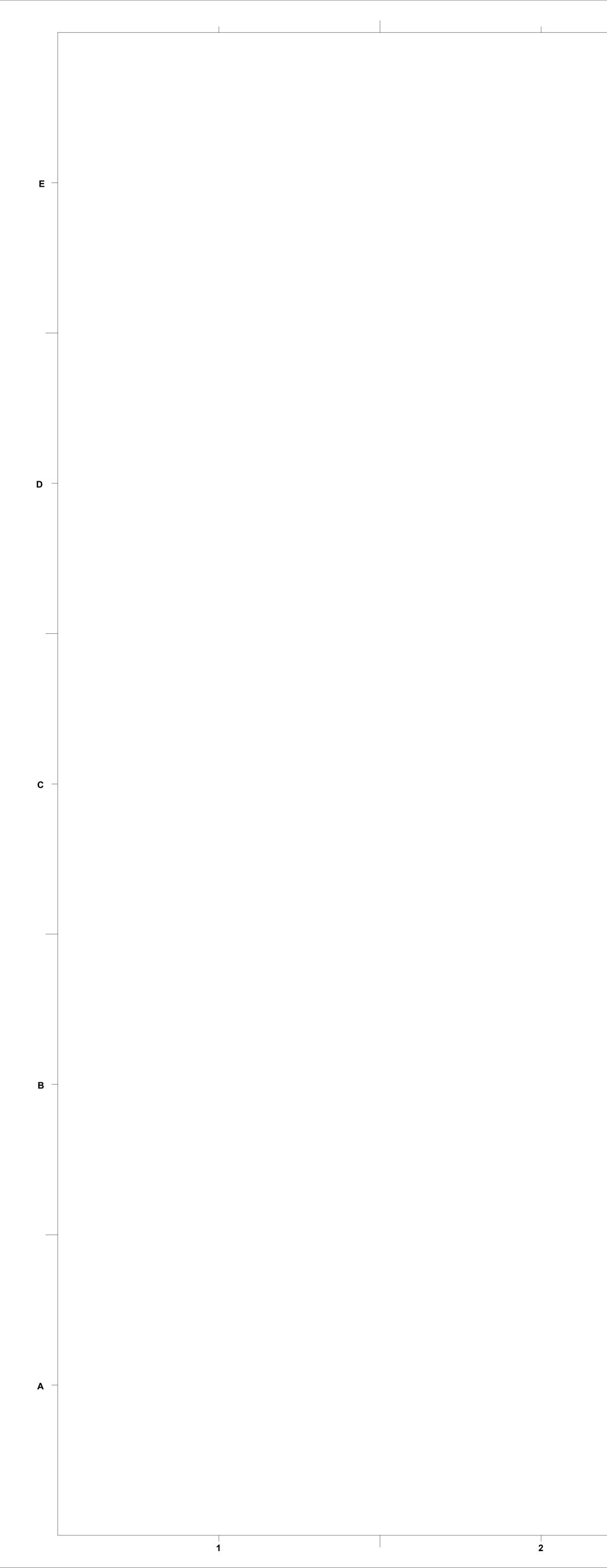


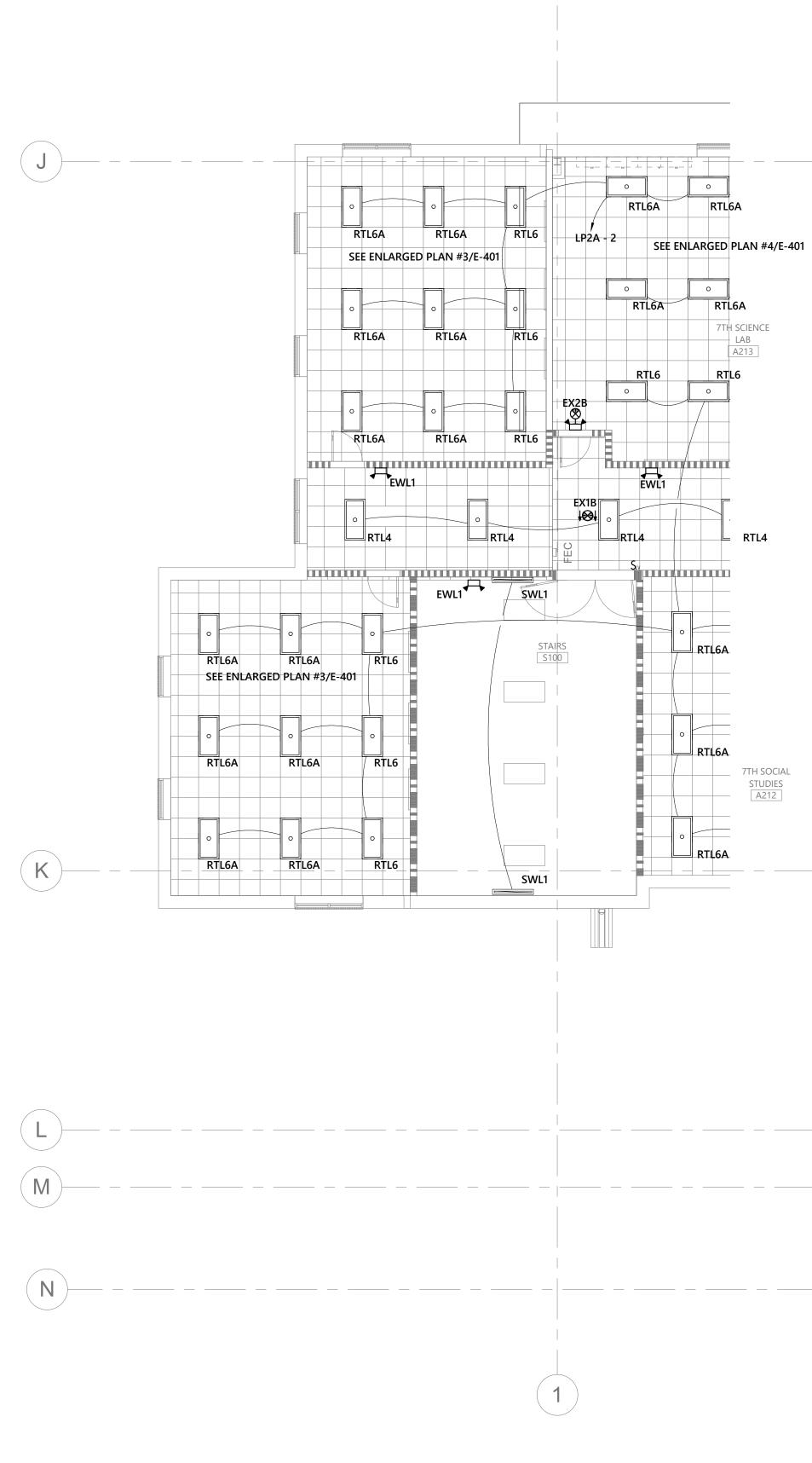




- ARE SWITCHED WITH THE LOCAL CIRCUIT.

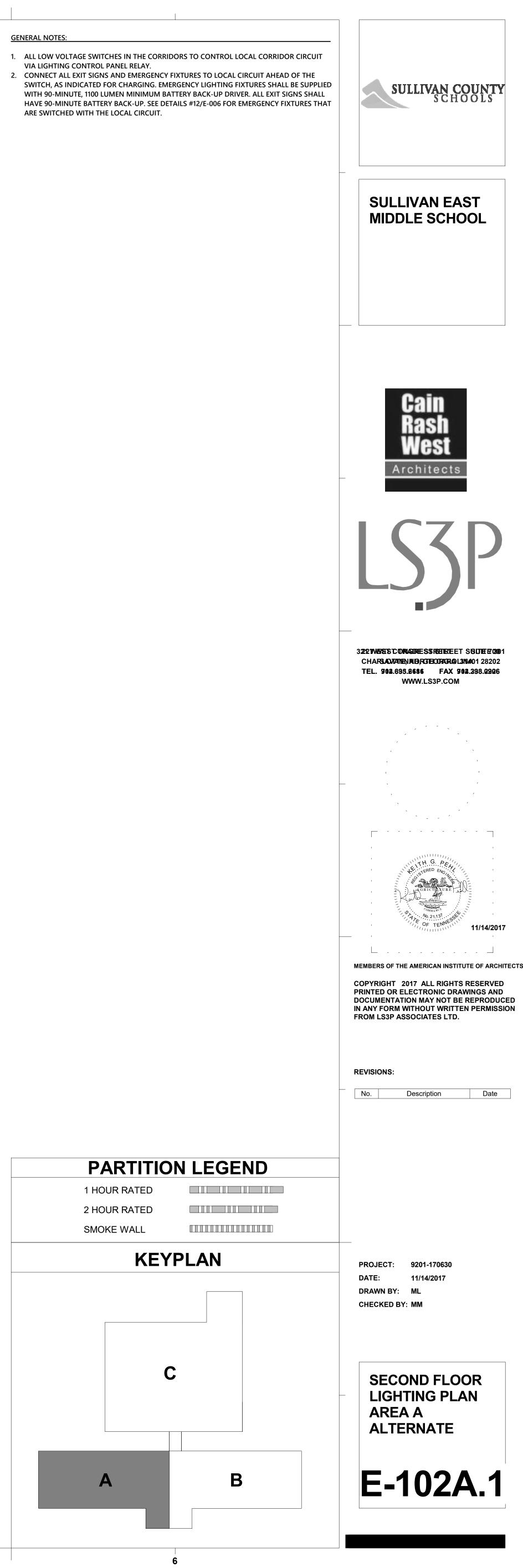


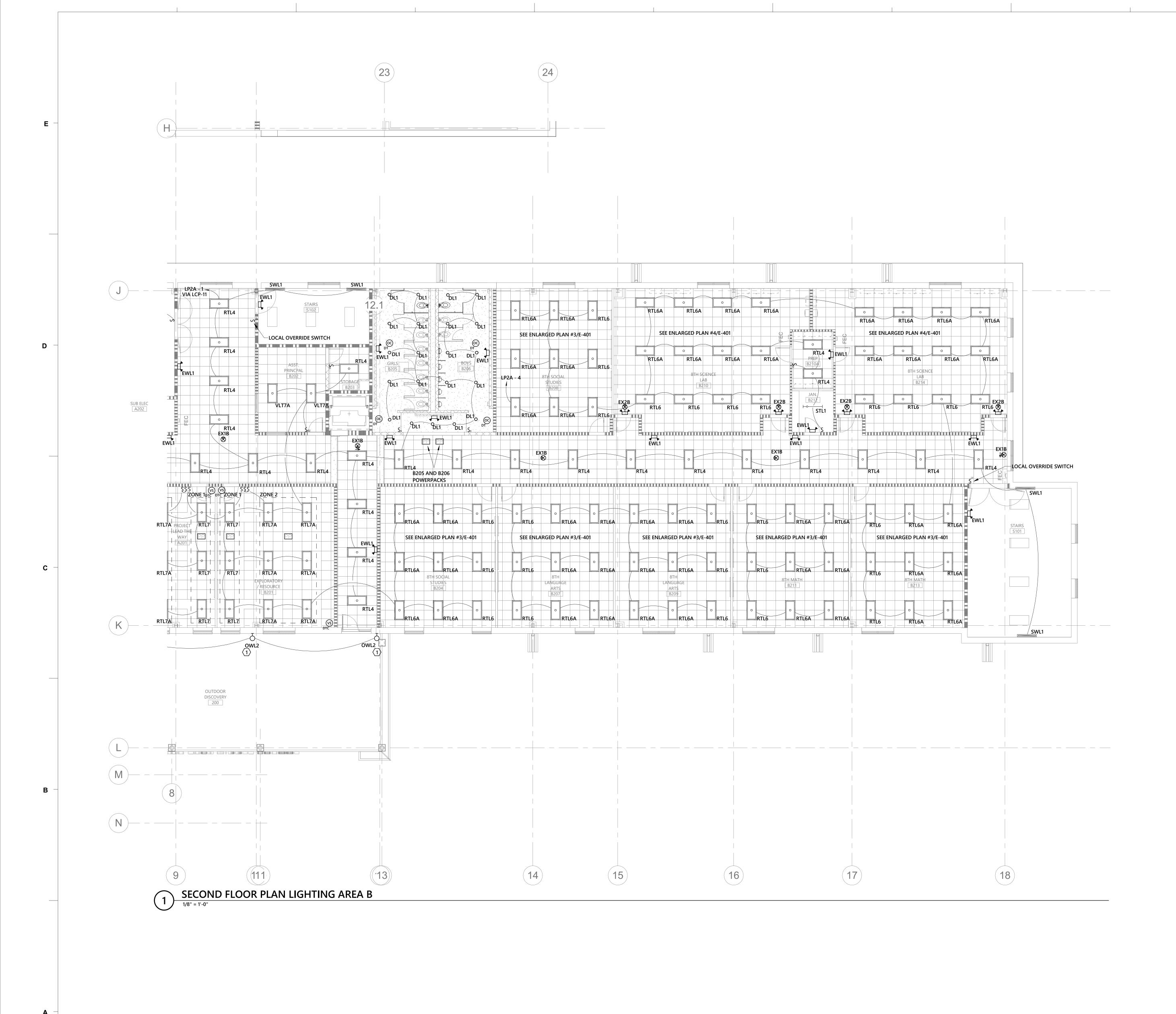




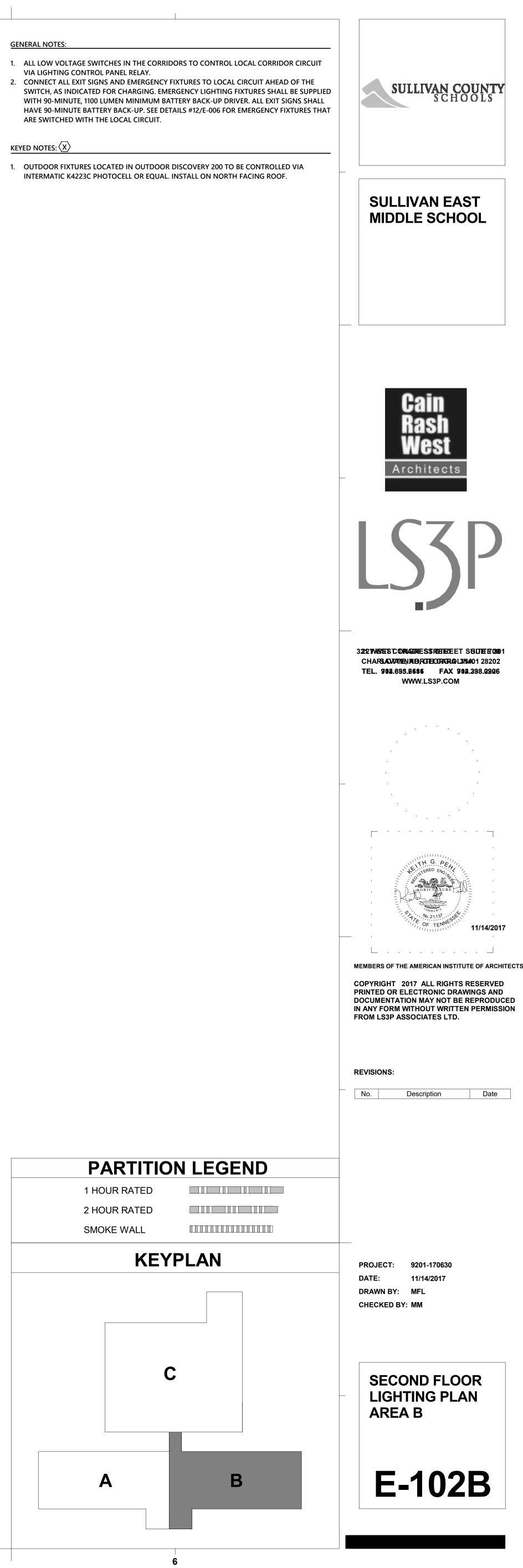


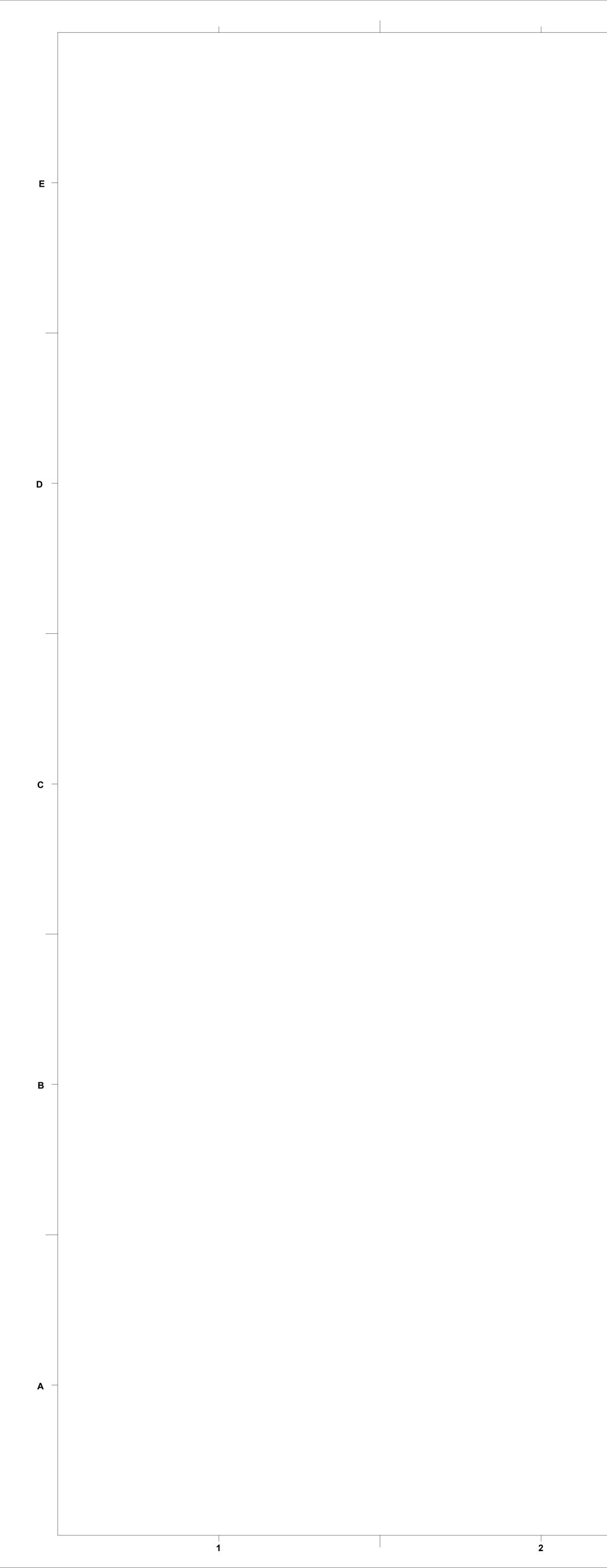
1 SECOND FLOOR PLAN LIGHTING AREA A - ALTERNATE

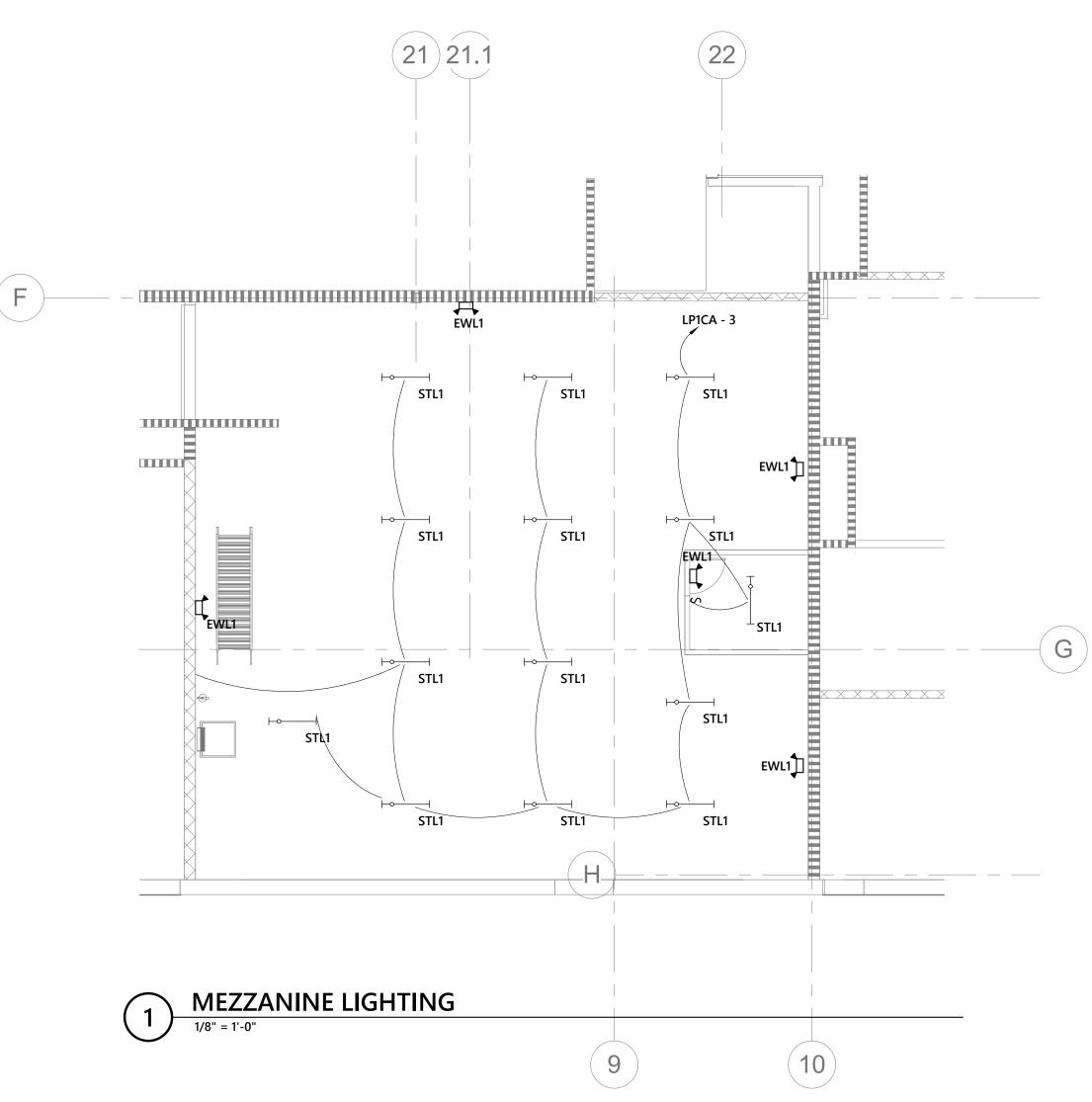


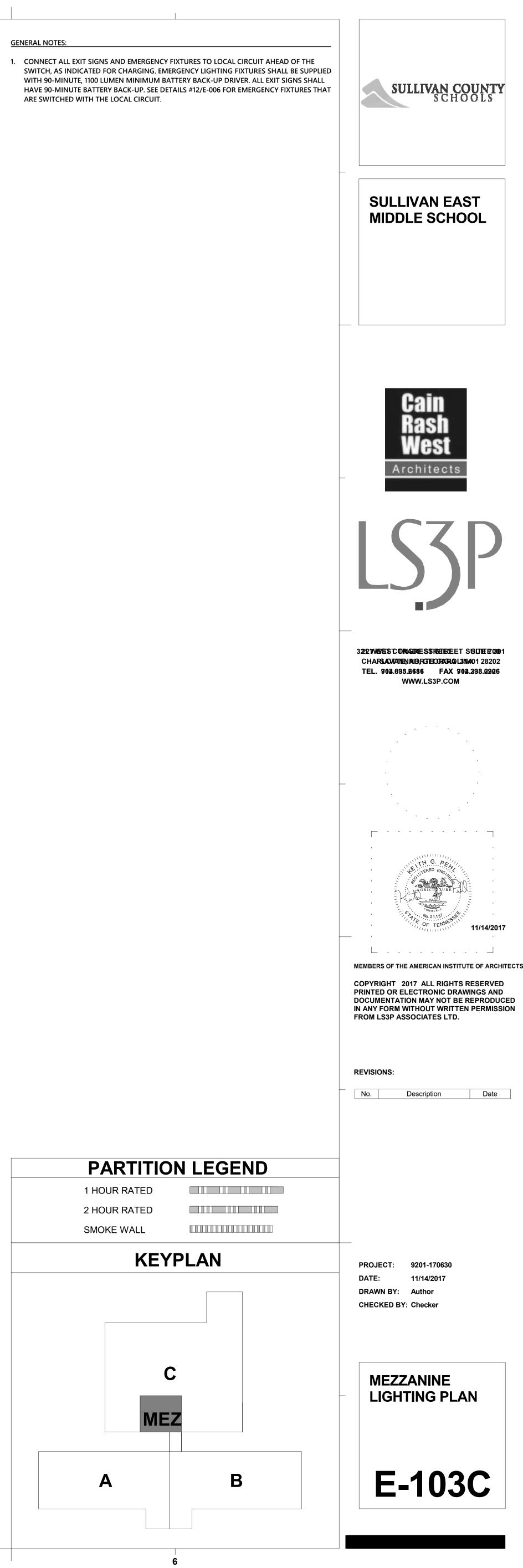


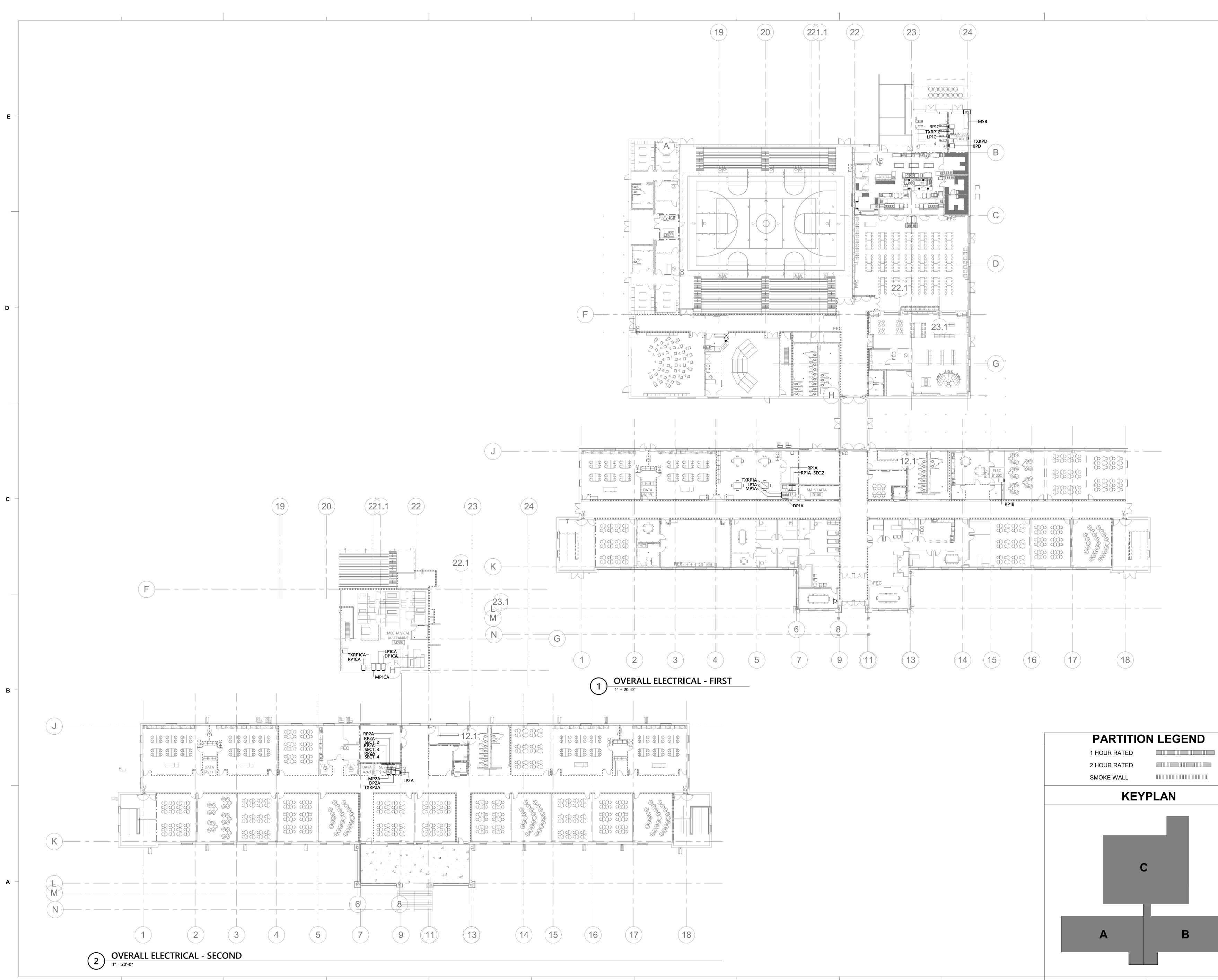
VIA LIGHTING CONTROL PANEL RELAY.

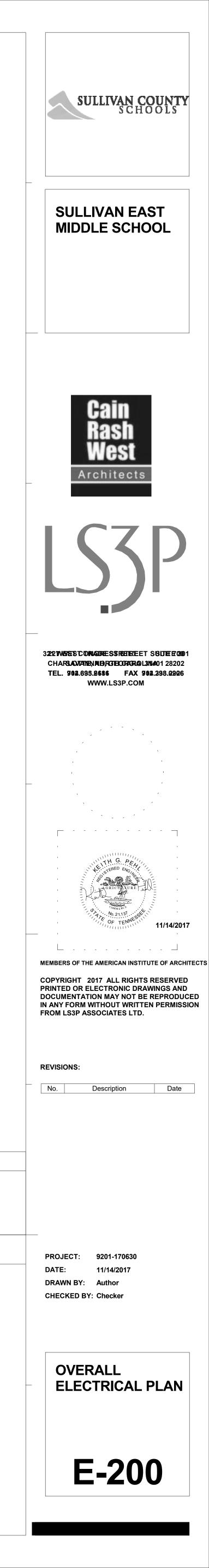


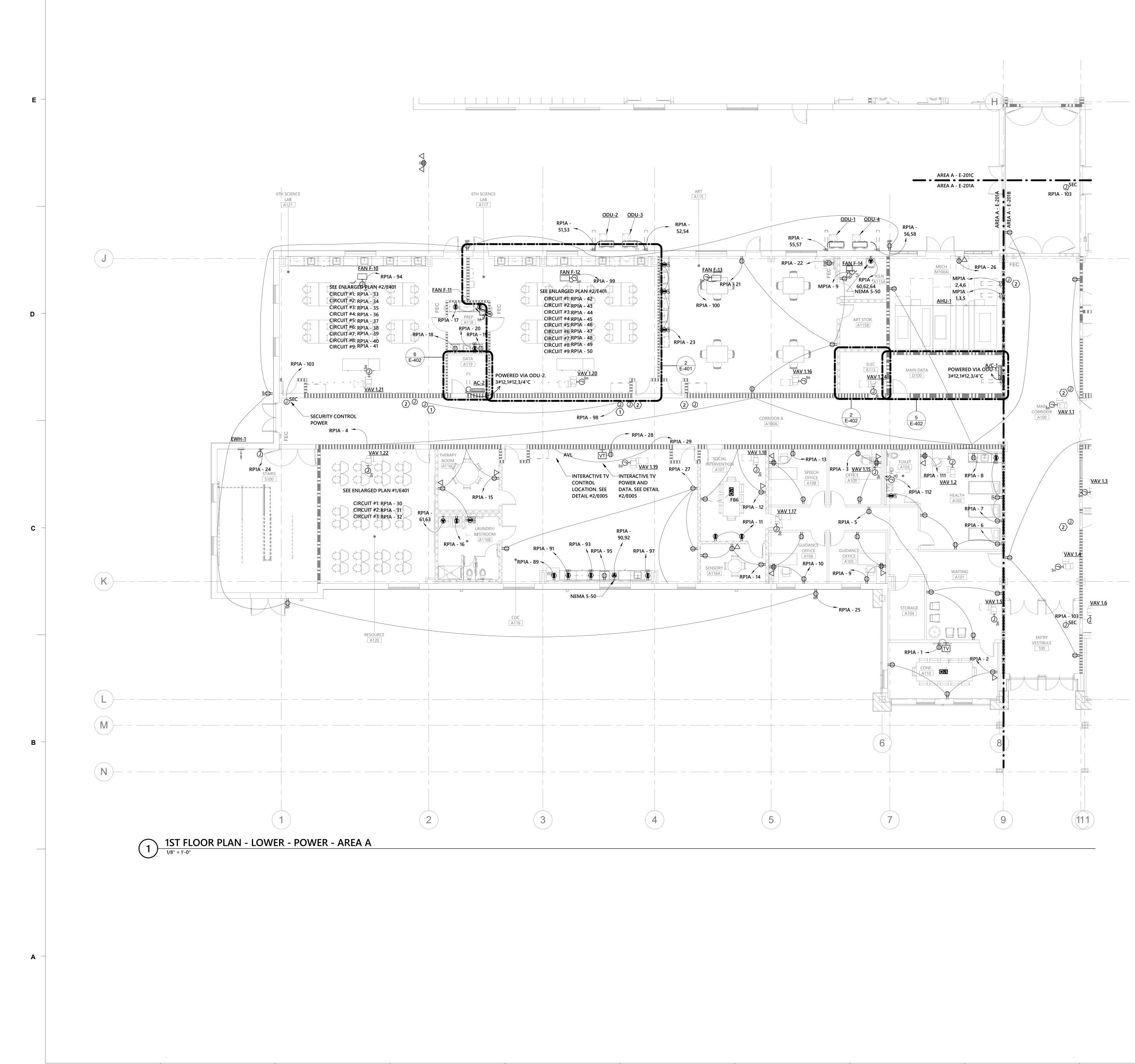




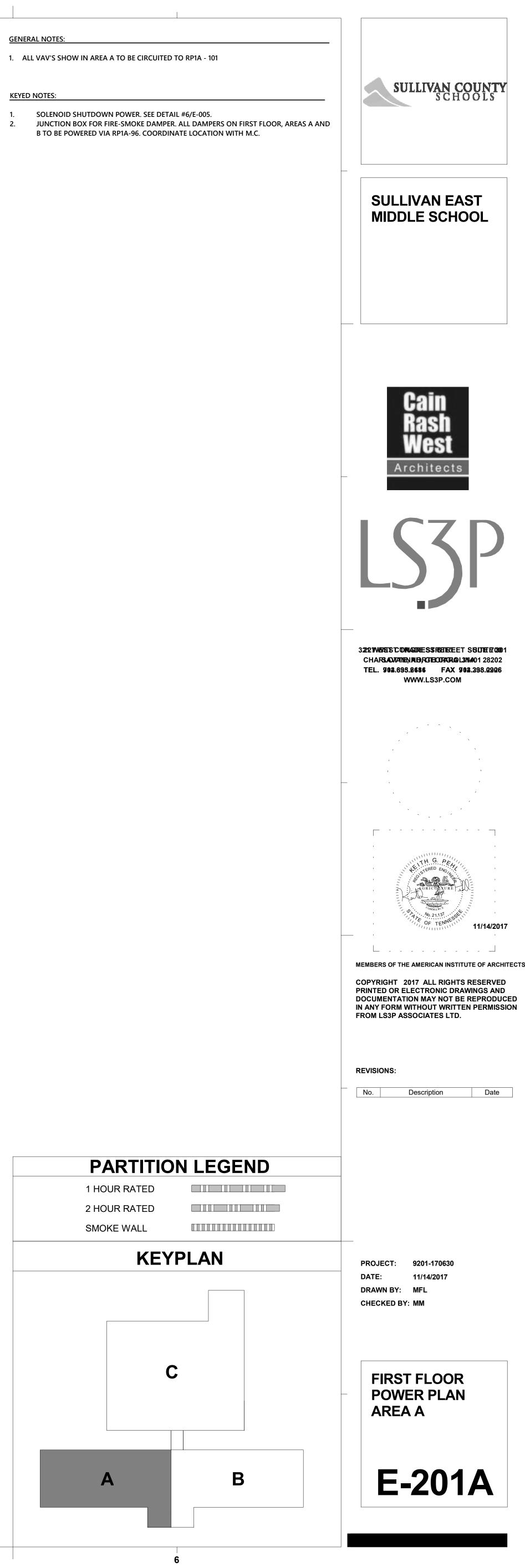


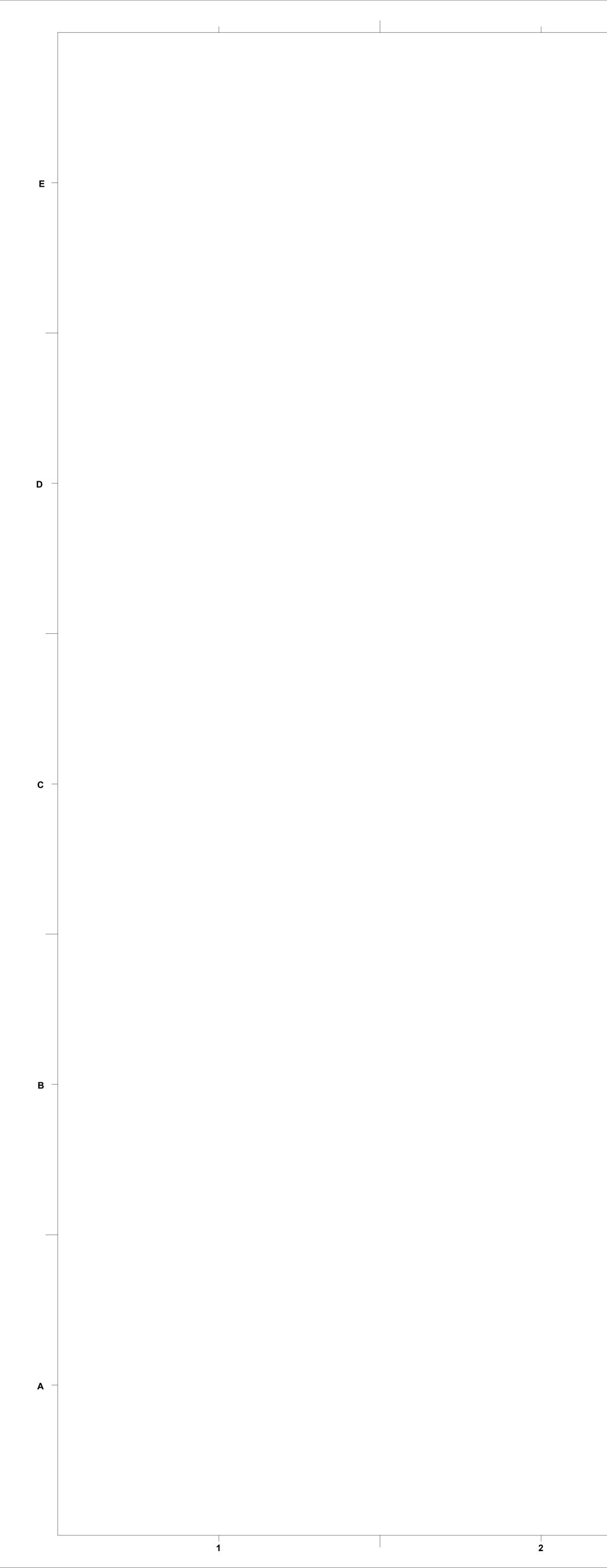


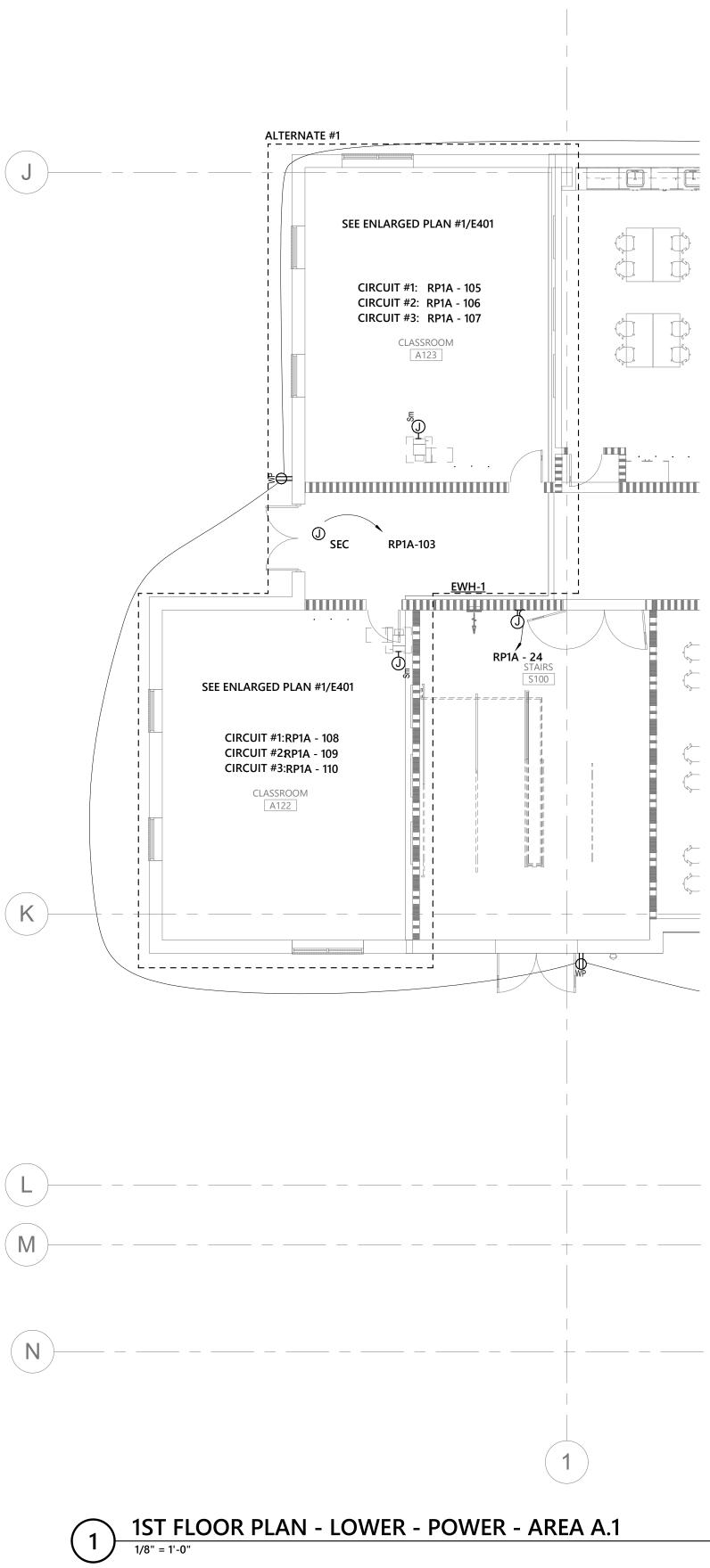




1.	SOLENOID SHUTDOWN POWER. SEE DETAIL #6/E-005.
2.	JUNCTION BOX FOR FIRE-SMOKE DAMPER. ALL DAMPERS ON FIRST FLOOR,
	B TO BE POWERED VIA RP1A-96. COORDINATE LOCATION WITH M.C.



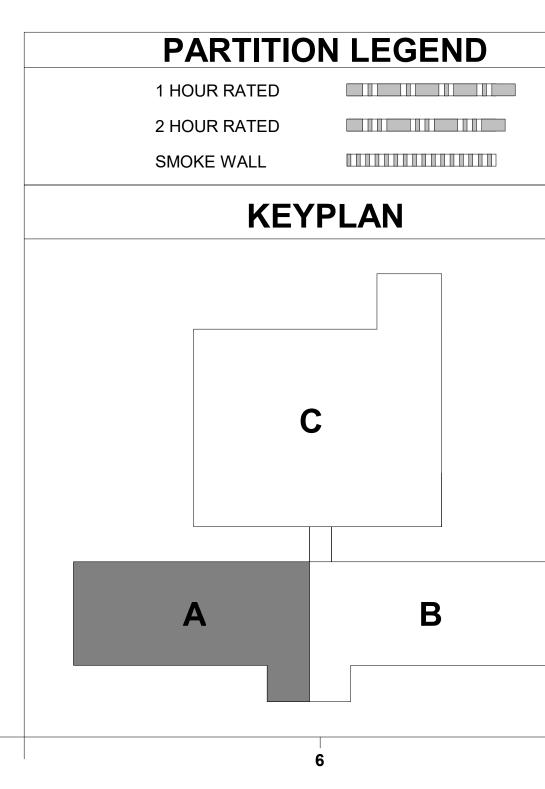


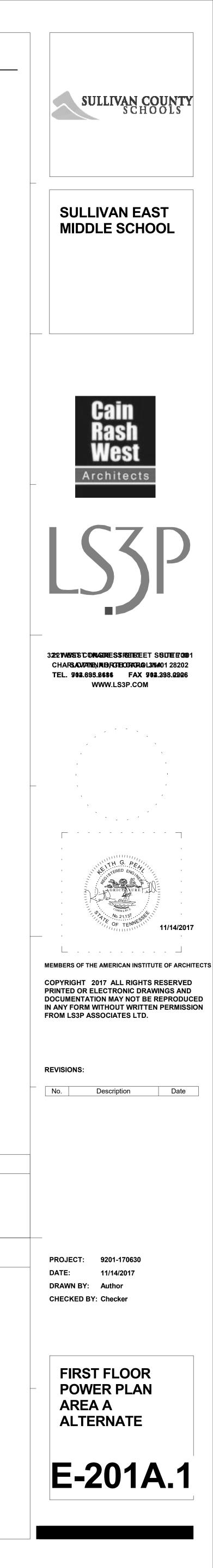


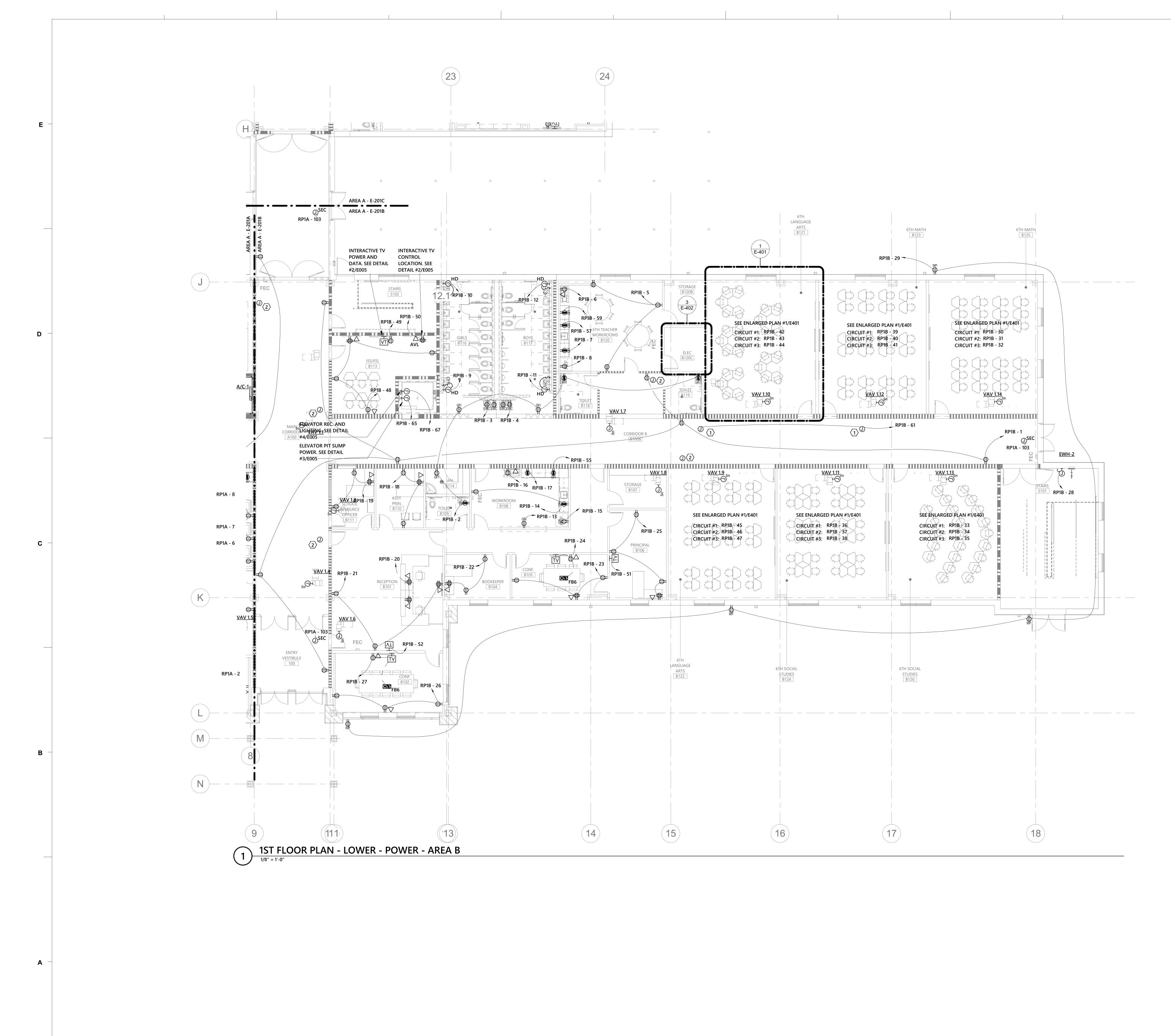


### GENERAL NOTES:

1. ALL VAV'S SHOW IN AREA A TO BE CIRCUITED TO RP1A - 101

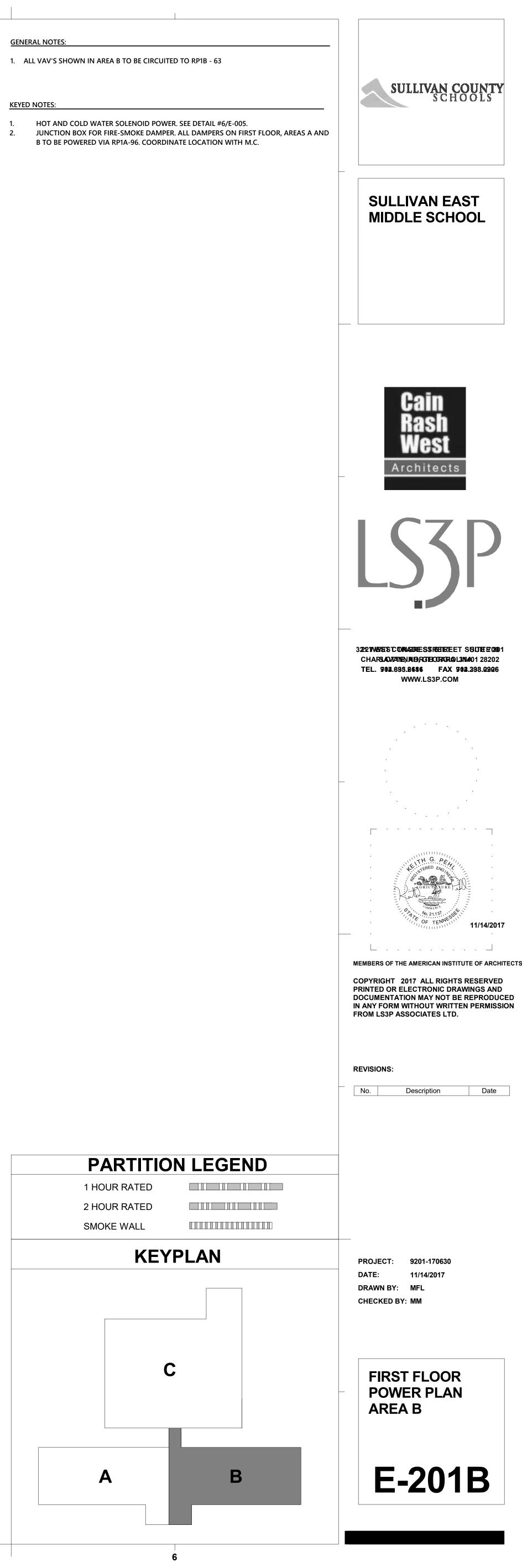


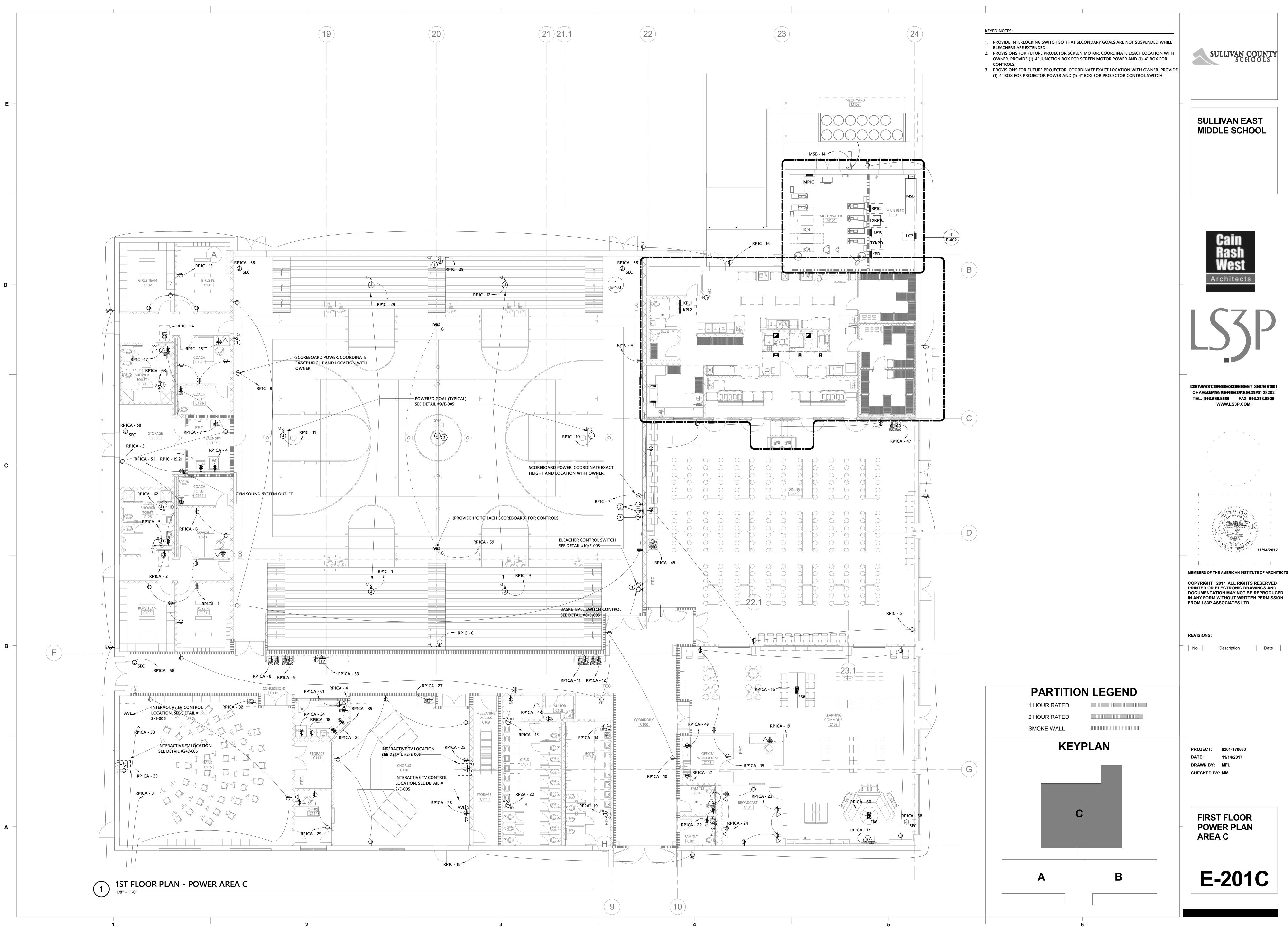


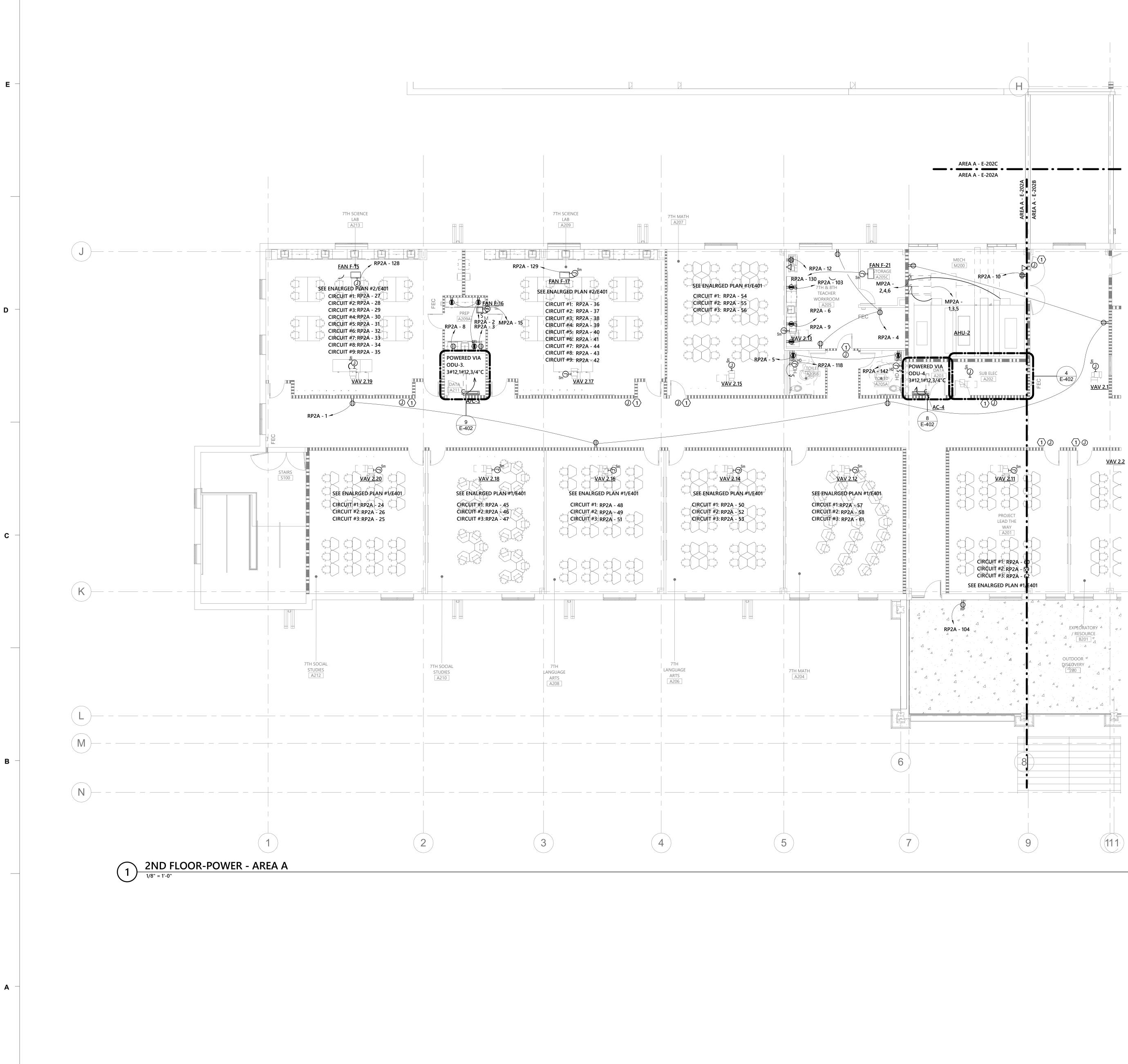


### KEYED NOTES:

•	HOT AND COLD WATER SOLENOID POWER. SEE DETAIL #6/E-005.
	JUNCTION BOX FOR FIRE-SMOKE DAMPER. ALL DAMPERS ON FIRST FLOOR,
	B TO BE POWERED VIA RP1A-96. COORDINATE LOCATION WITH M.C.







2





GENERAL NOTES:

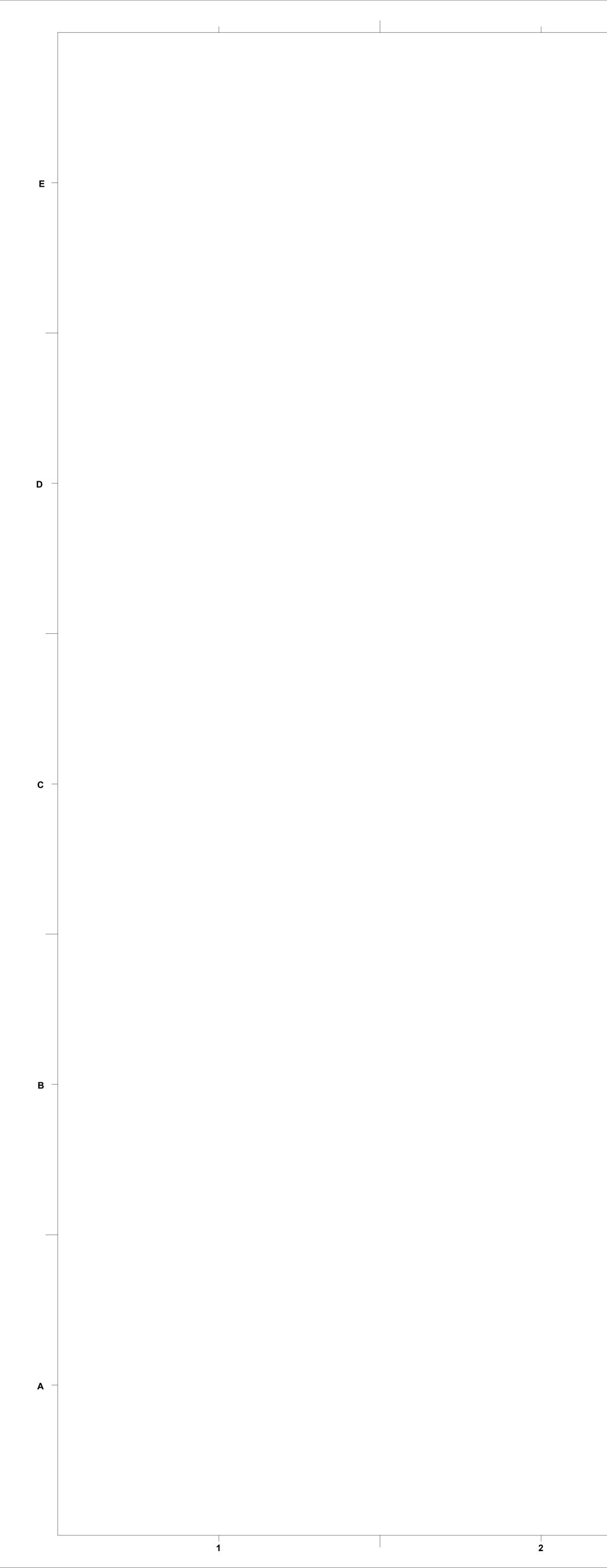
1. ALL VAV'S SHOWN IN SECOND FLOOR - AREA A TO BE CIRCUITED TO RPC2A - 134

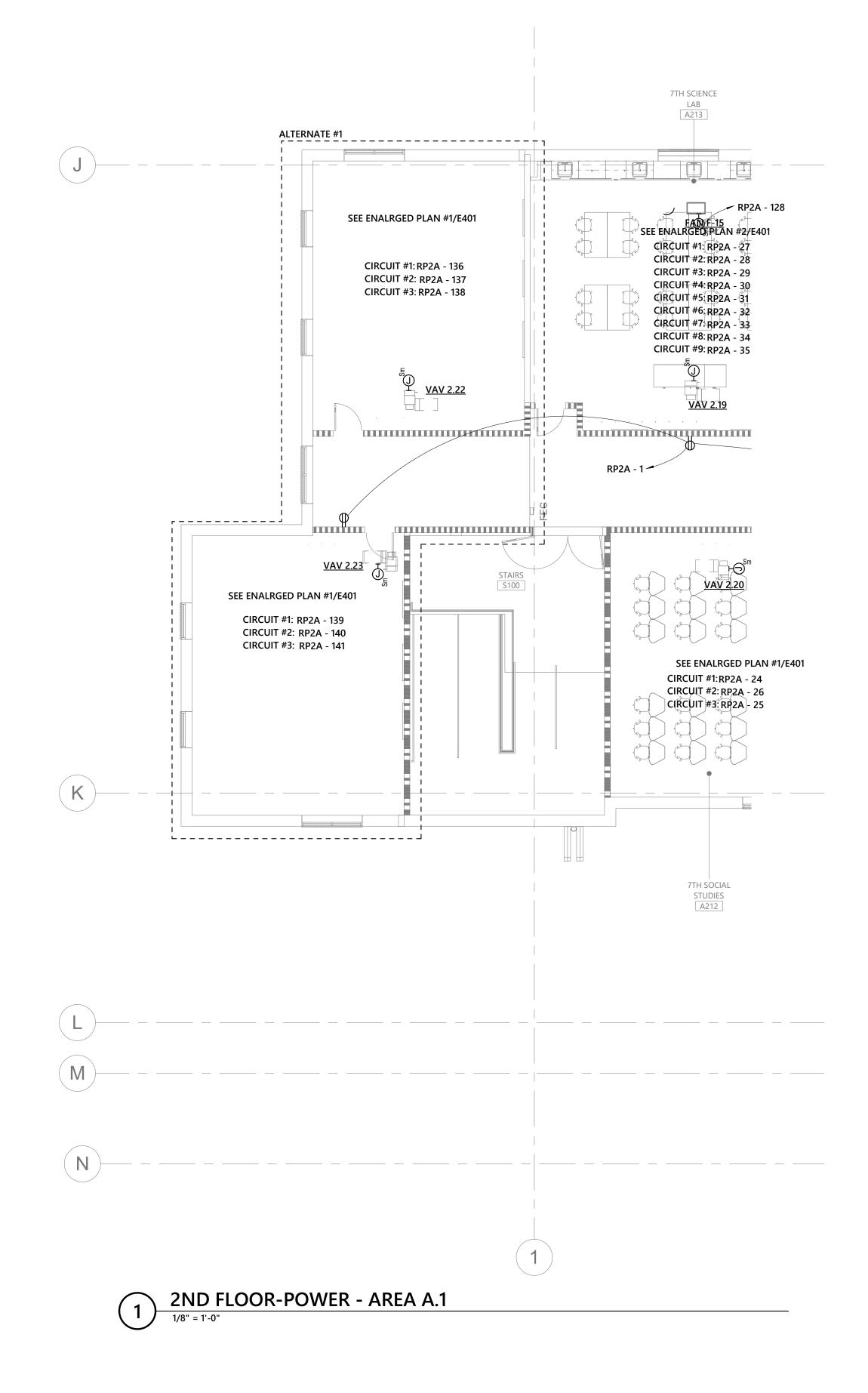
KEYED NOTES:

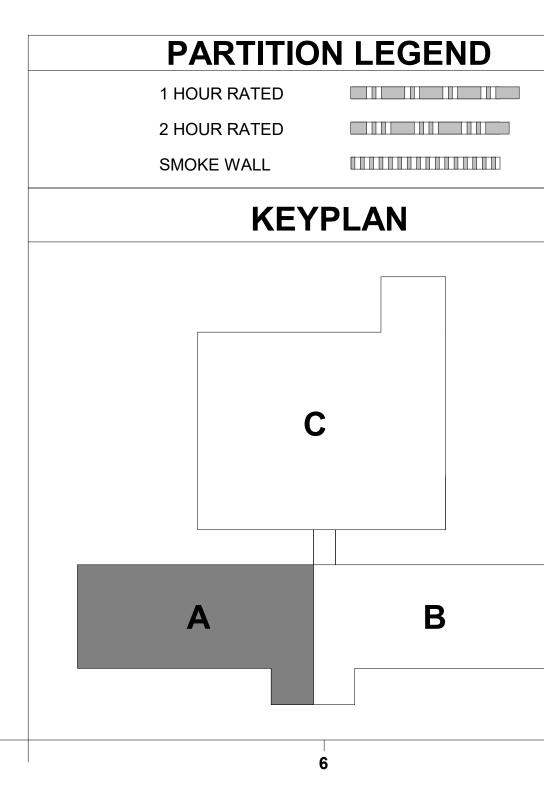
1.

JUNCTION BOX FOR FIRE-SMOKE DAMPER. ALL DAMPERS ON SECOND FLOOR, A
AND B TO BE POWERED VIA RP2A-127. COORDINATE LOCATION WITH M.C.

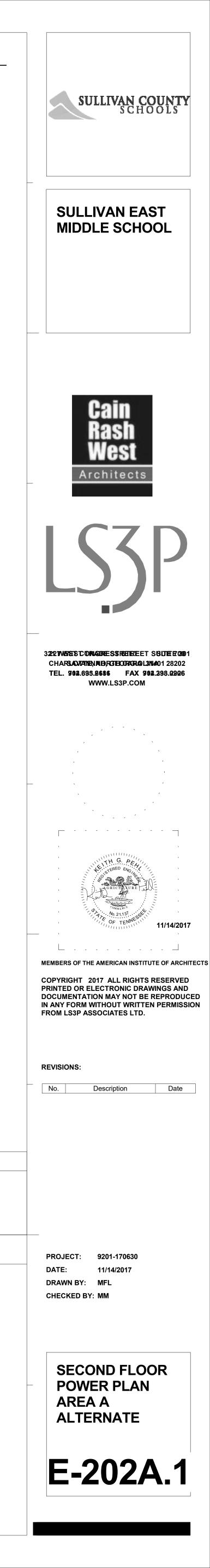


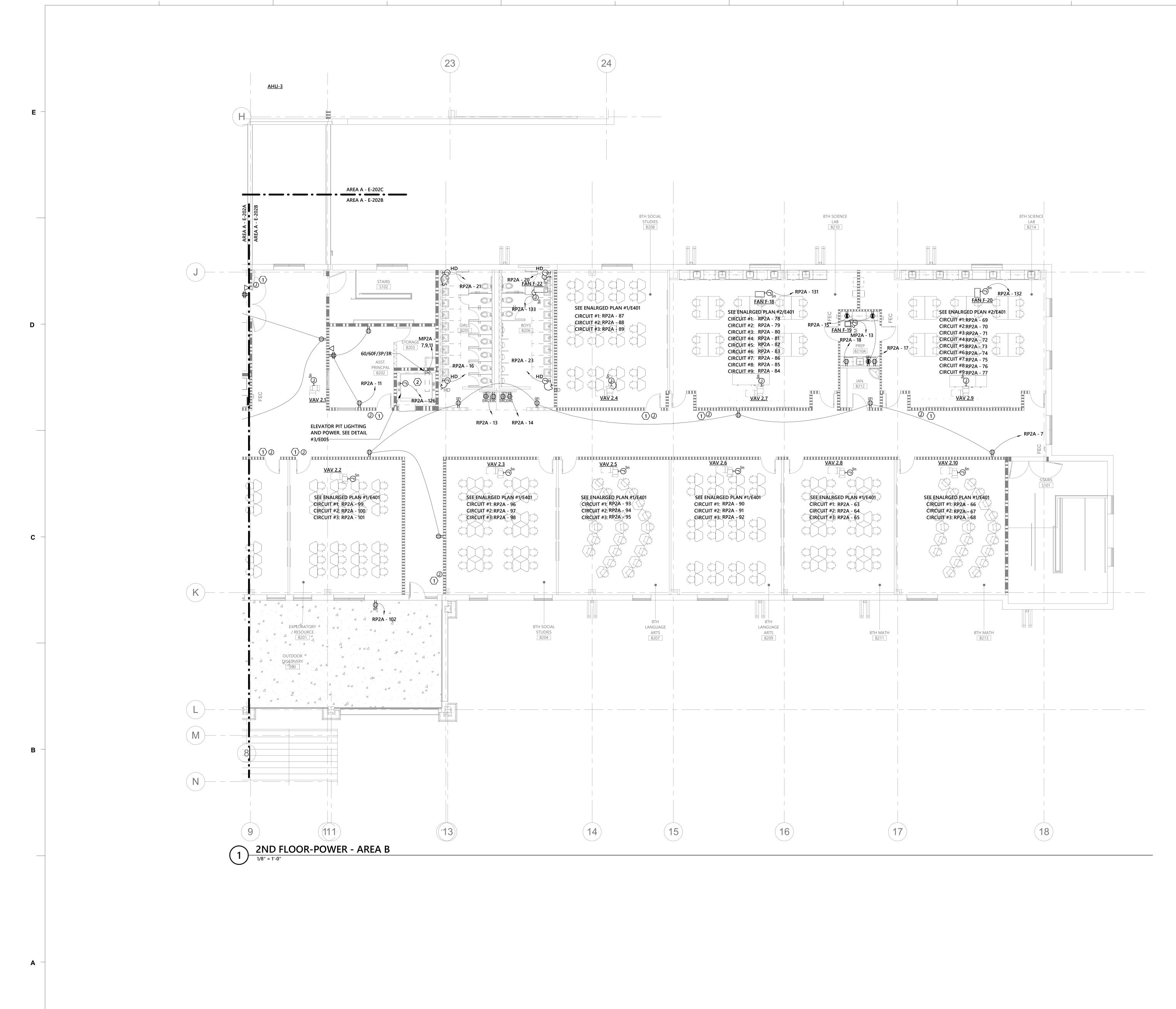






GENERAL NOTES:





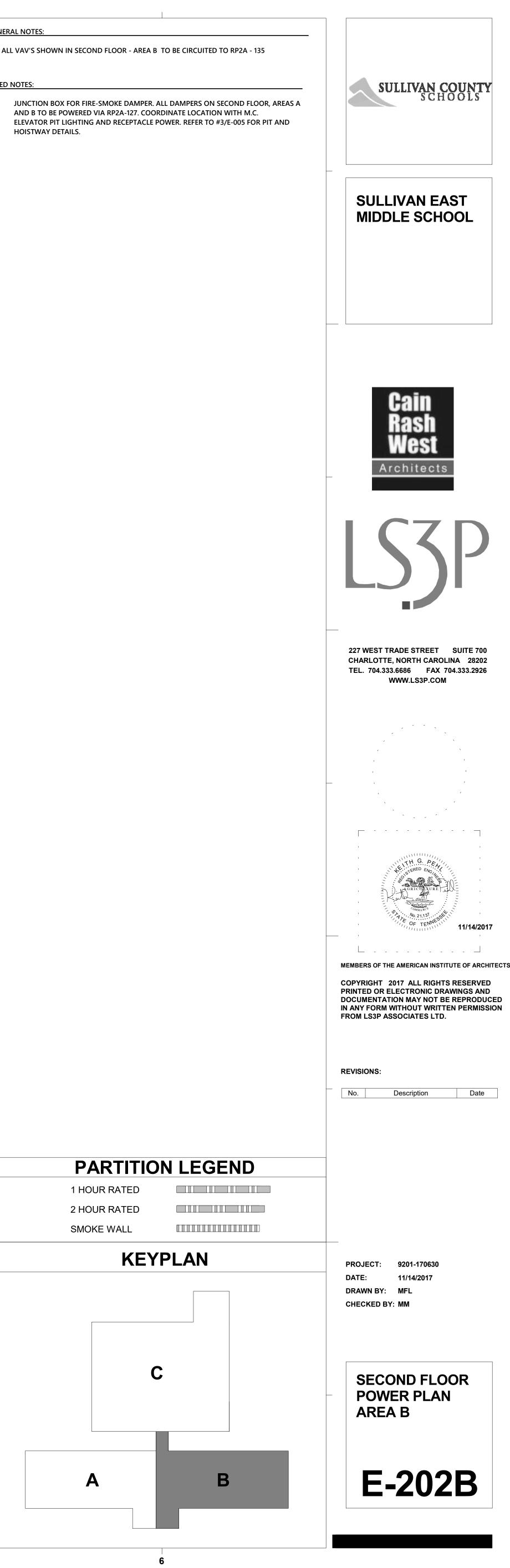
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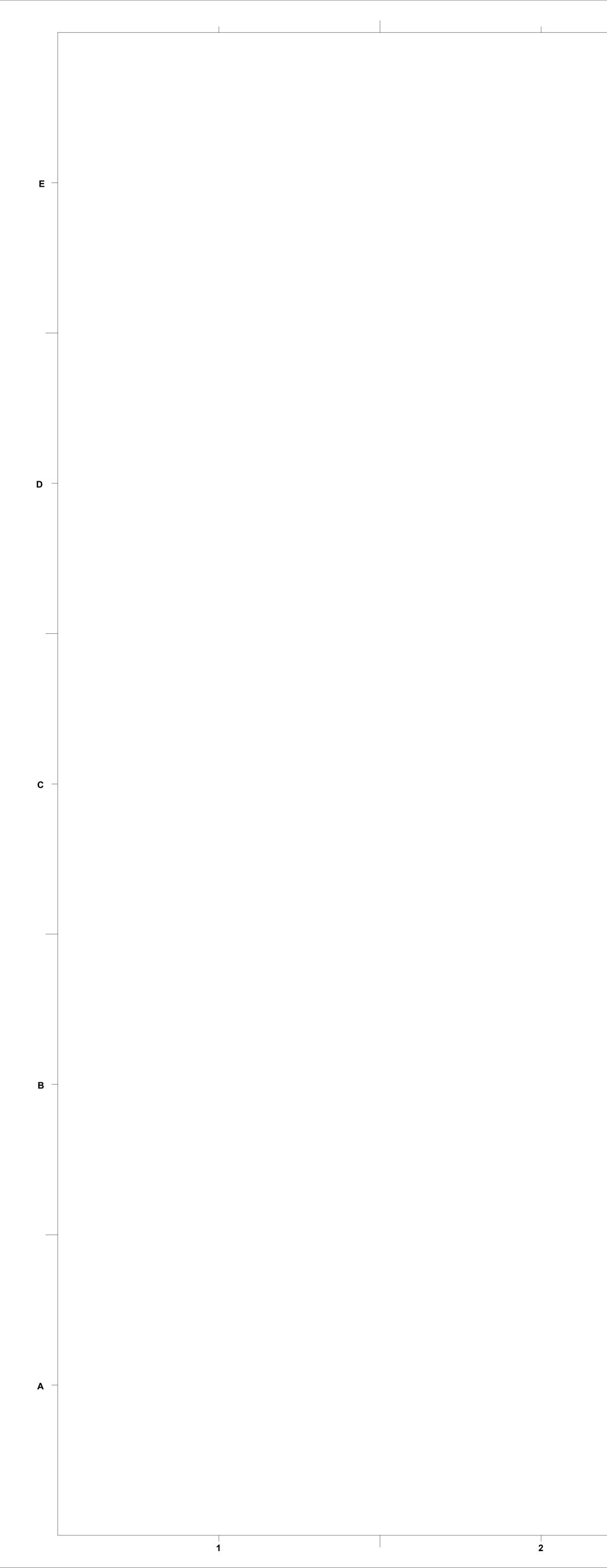
# **GENERAL NOTES:**

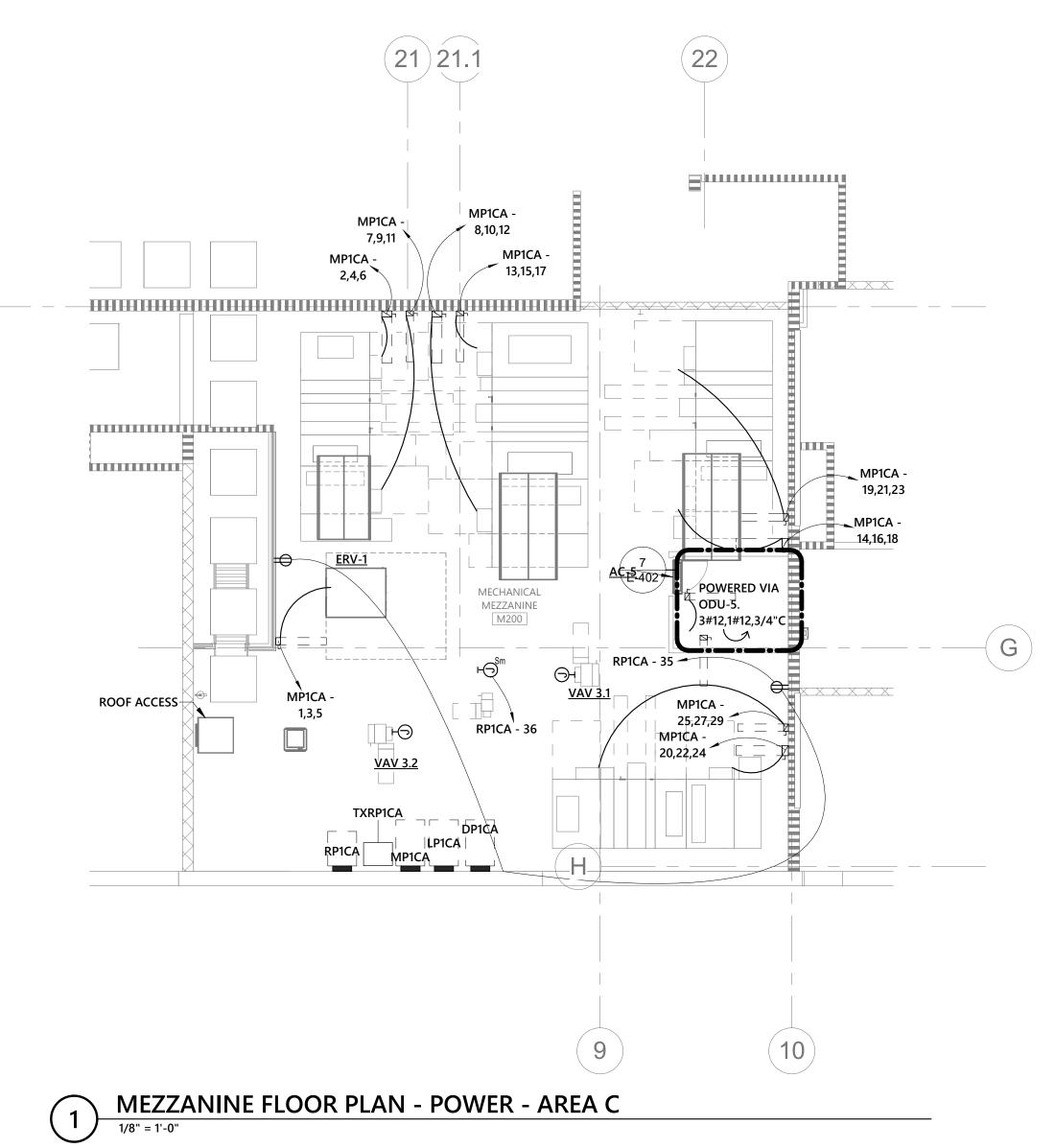
1. ALL VAV'S SHOWN IN SECOND FLOOR - AREA B TO BE CIRCUITED TO RP2A - 135

**KEYED NOTES:** 

1. AND B TO BE POWERED VIA RP2A-127. COORDINATE LOCATION WITH M.C. 2.

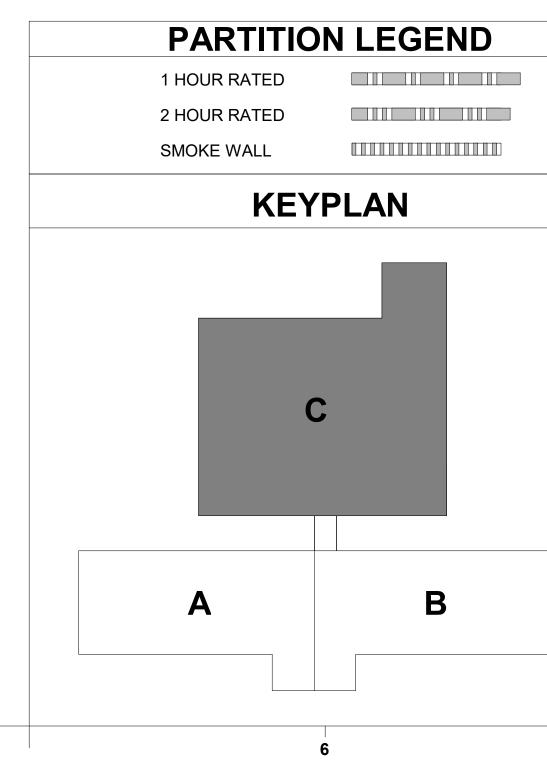


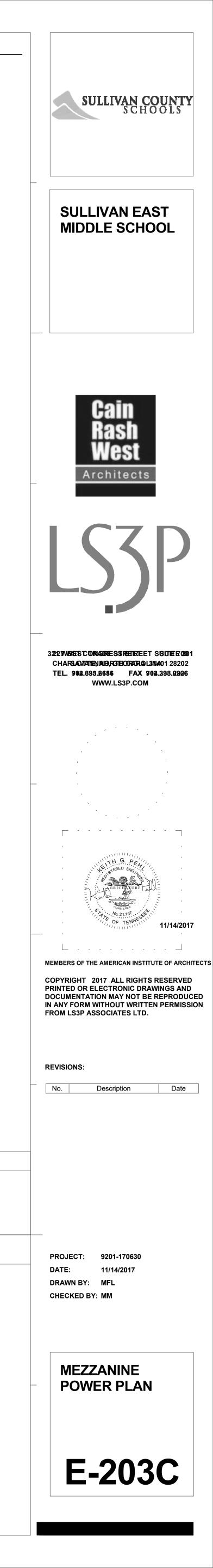


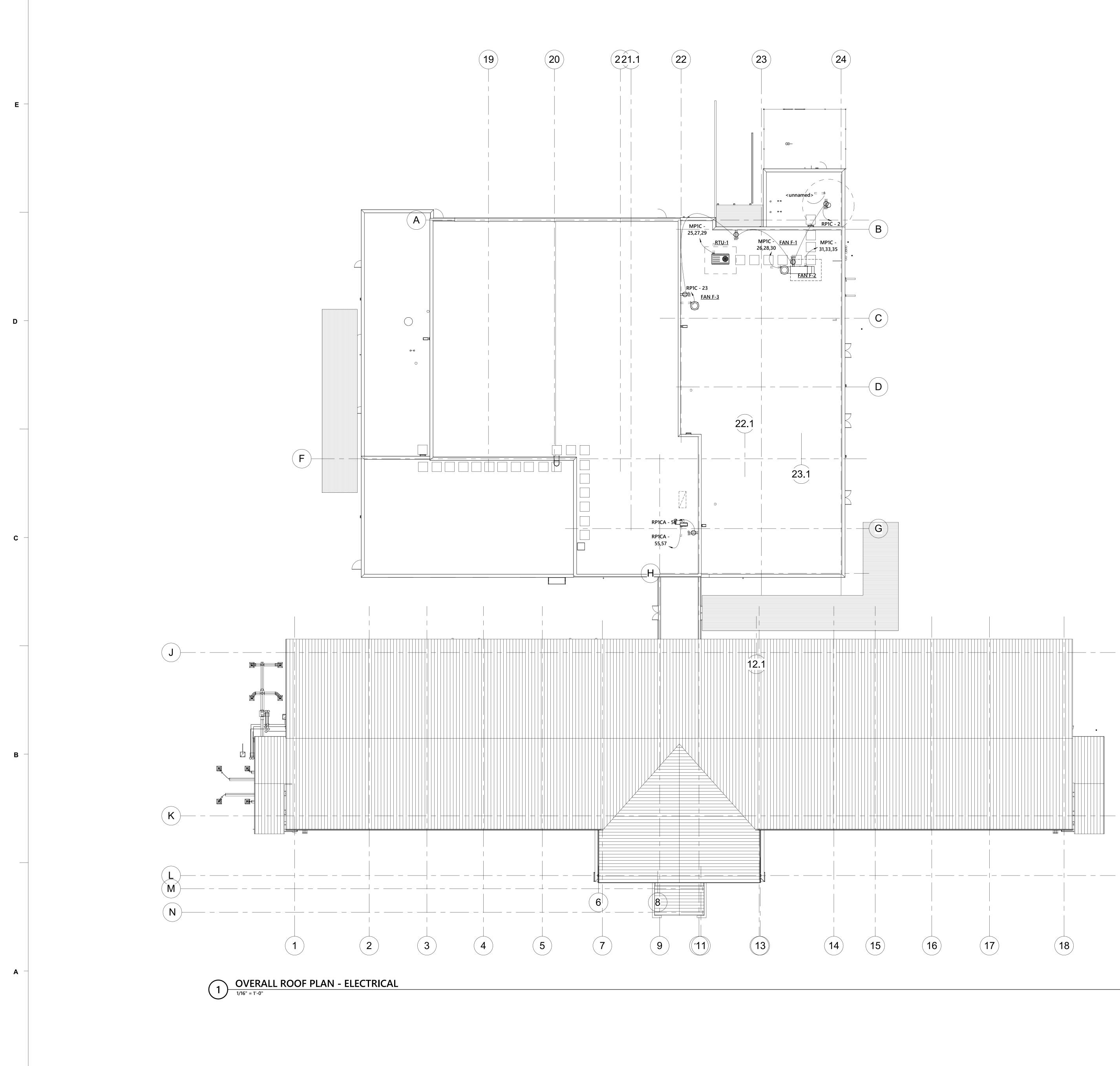


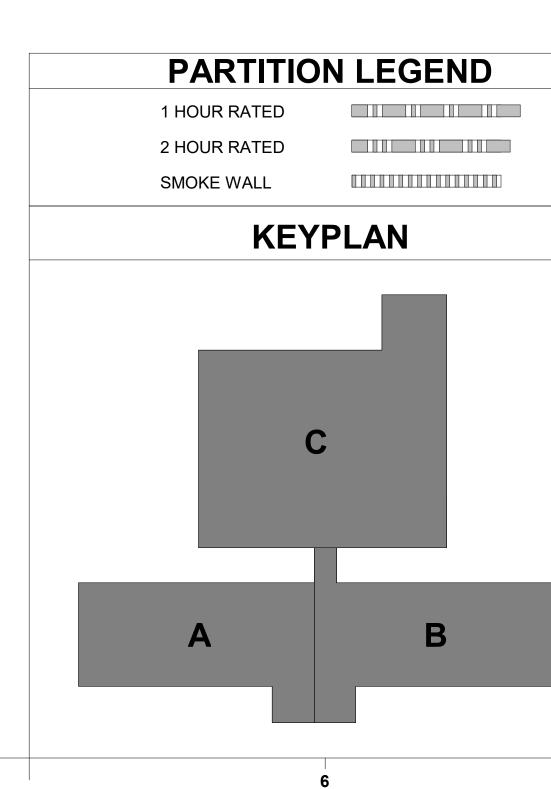
GENERAL NOTES:

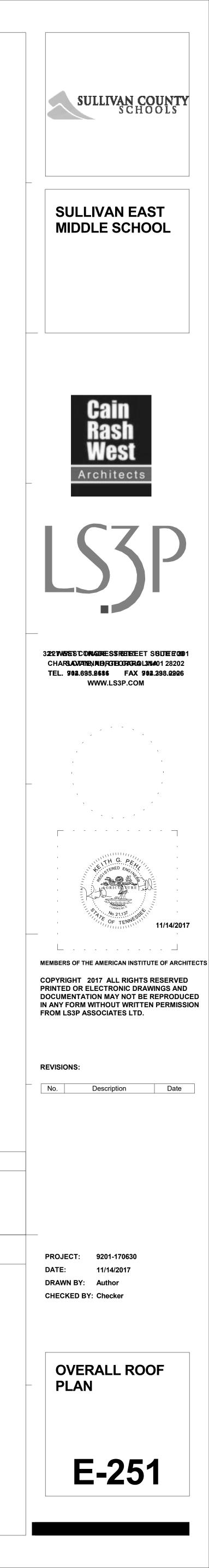
1. ALL VAV'S SHOWN IN MEZZ. TO BE CIRCUITED TO RPC1A - 37

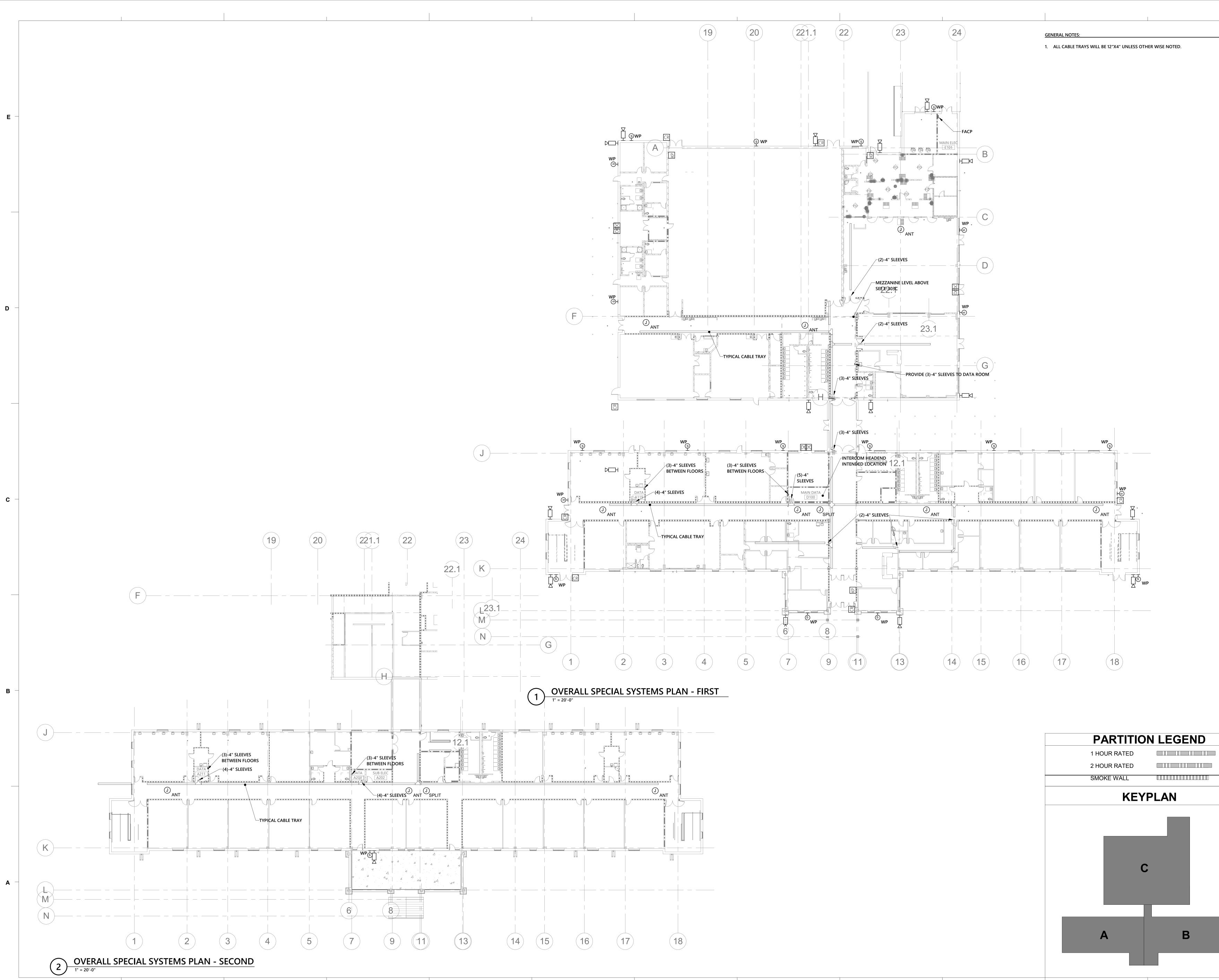


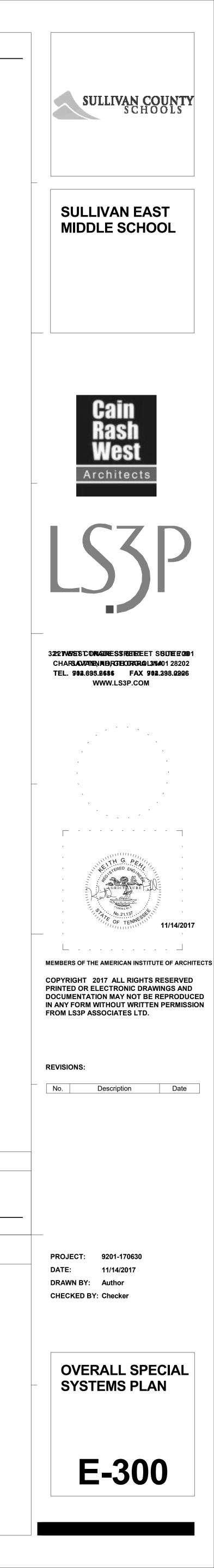


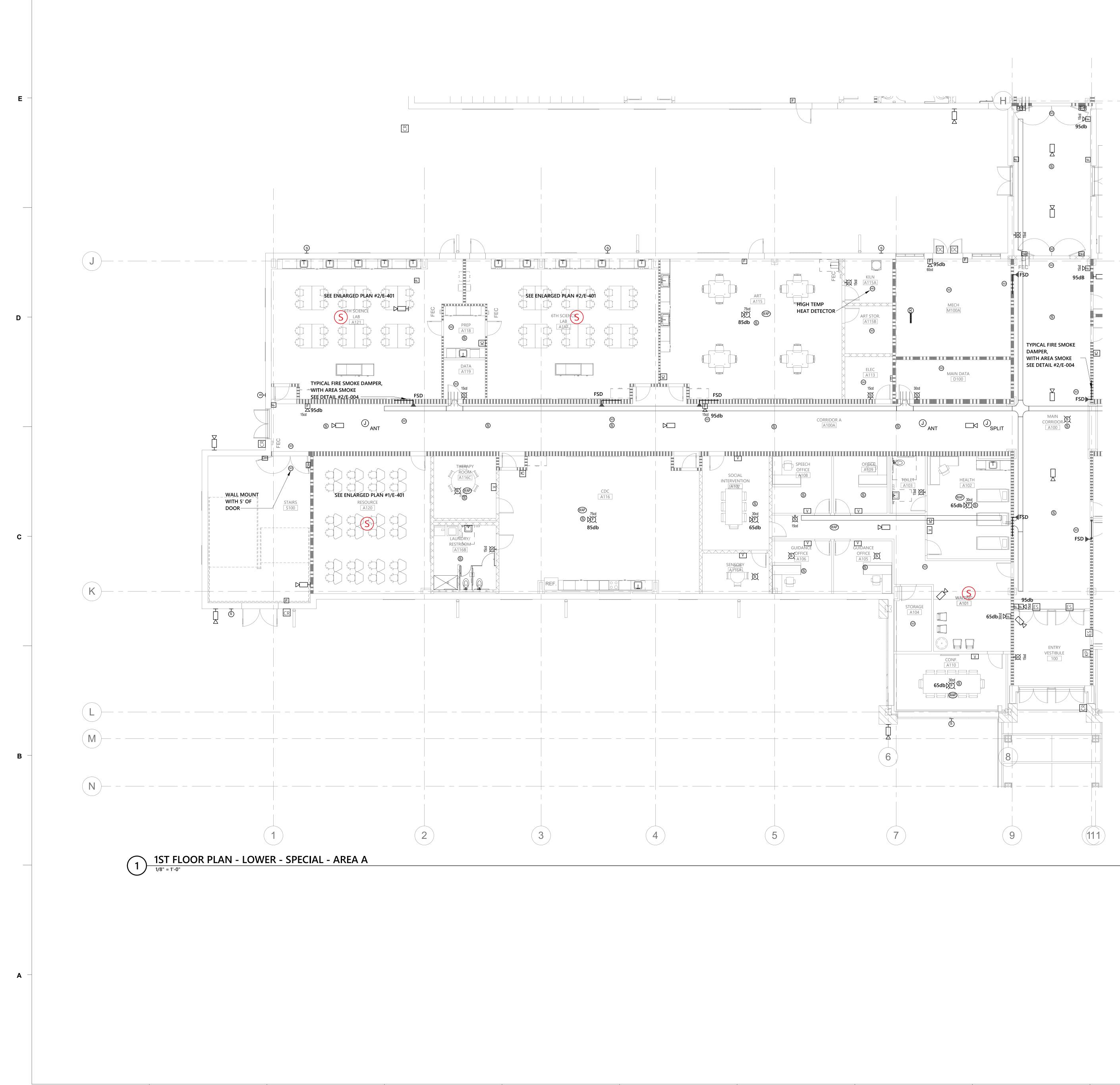








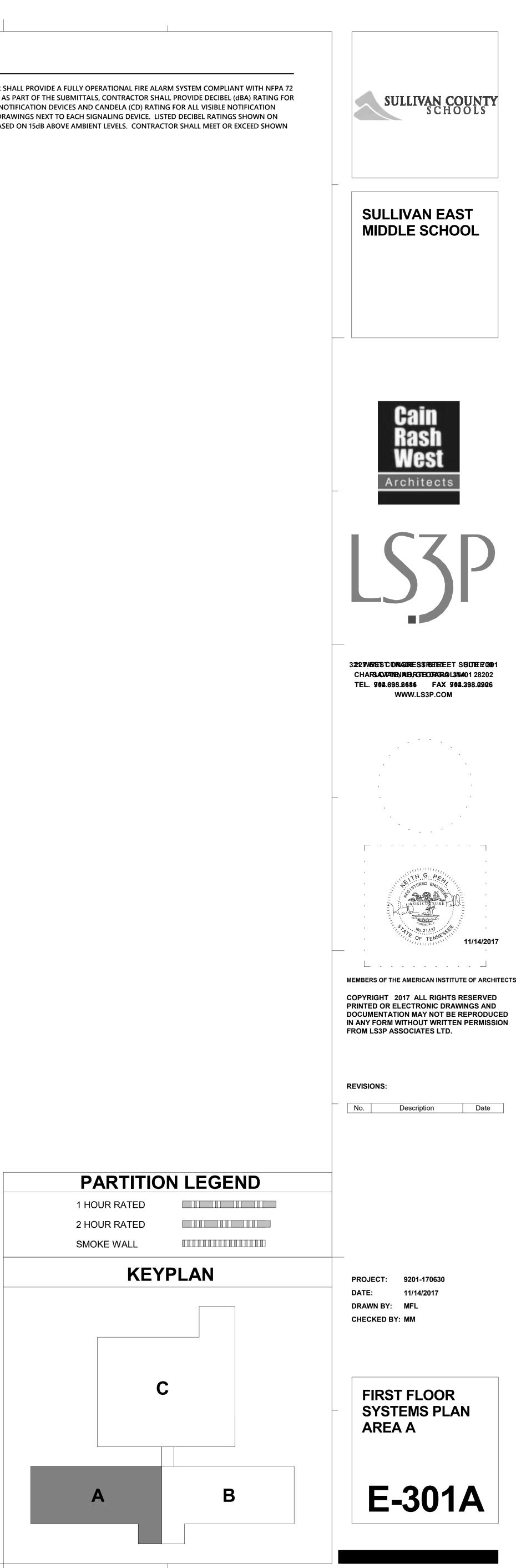


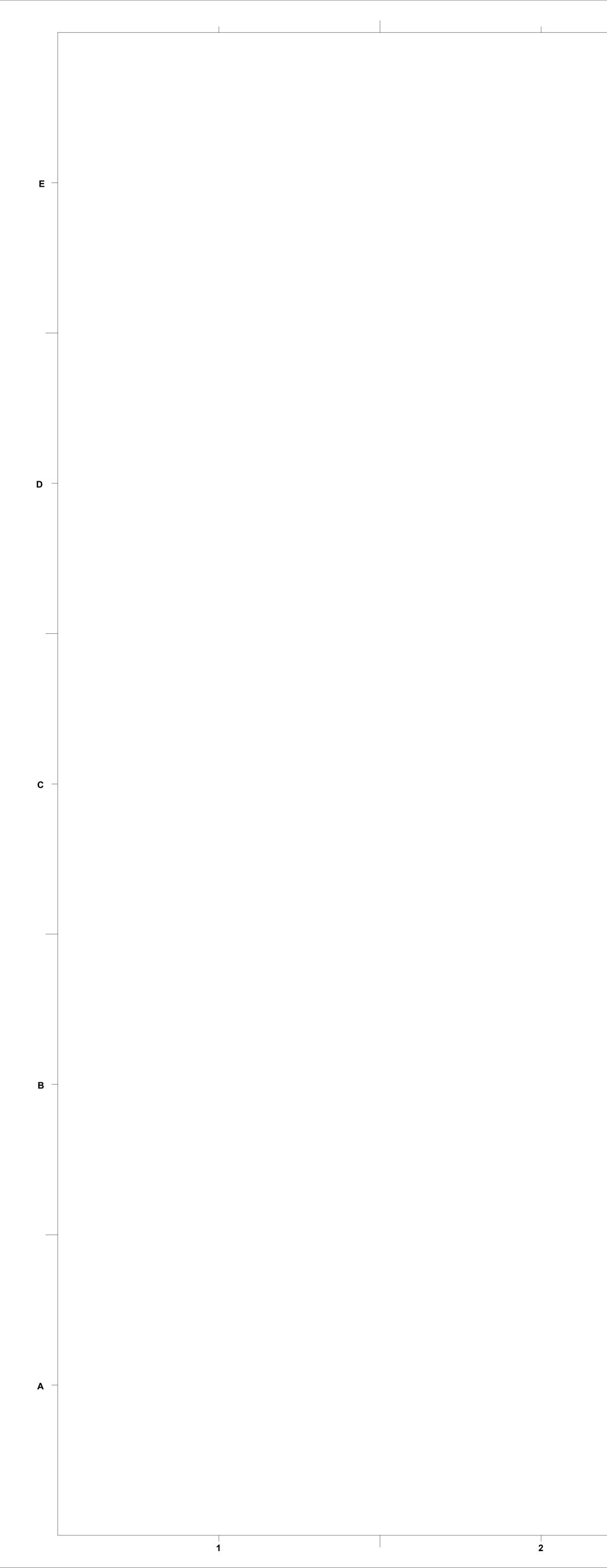


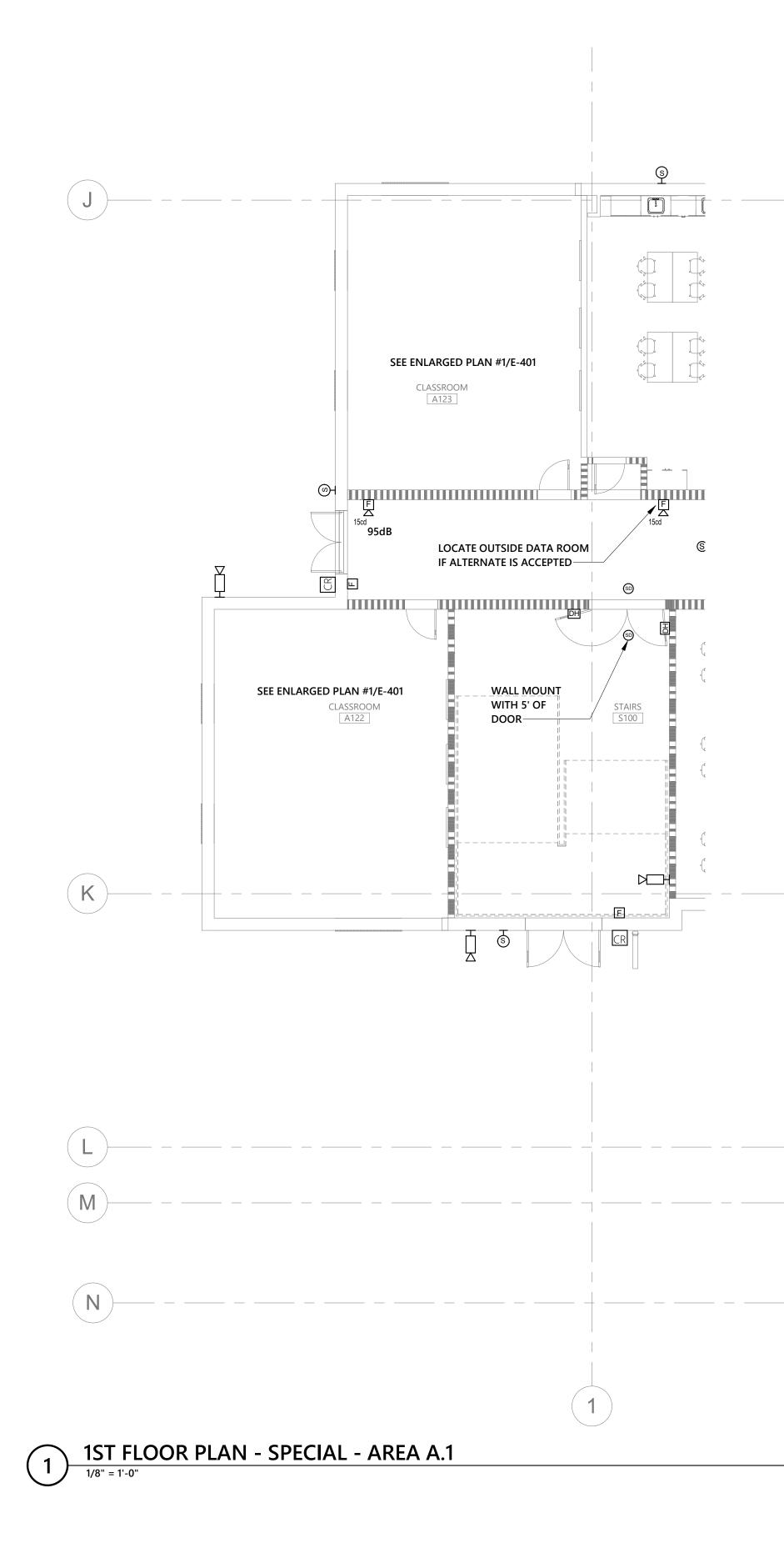
2



1. CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL FIRE ALARM SYSTEM COMPLIANT WITH NFPA 72 AND IBC 907. AS PART OF THE SUBMITTALS, CONTRACTOR SHALL PROVIDE DECIBEL (dBA) RATING FOR ALL AUDIBLE NOTIFICATION DEVICES AND CANDELA (CD) RATING FOR ALL VISIBLE NOTIFICATION DEVICES ON DRAWINGS NEXT TO EACH SIGNALING DEVICE. LISTED DECIBEL RATINGS SHOWN ON PLANS ARE BASED ON 15dB ABOVE AMBIENT LEVELS. CONTRACTOR SHALL MEET OR EXCEED SHOWN LEVELS.



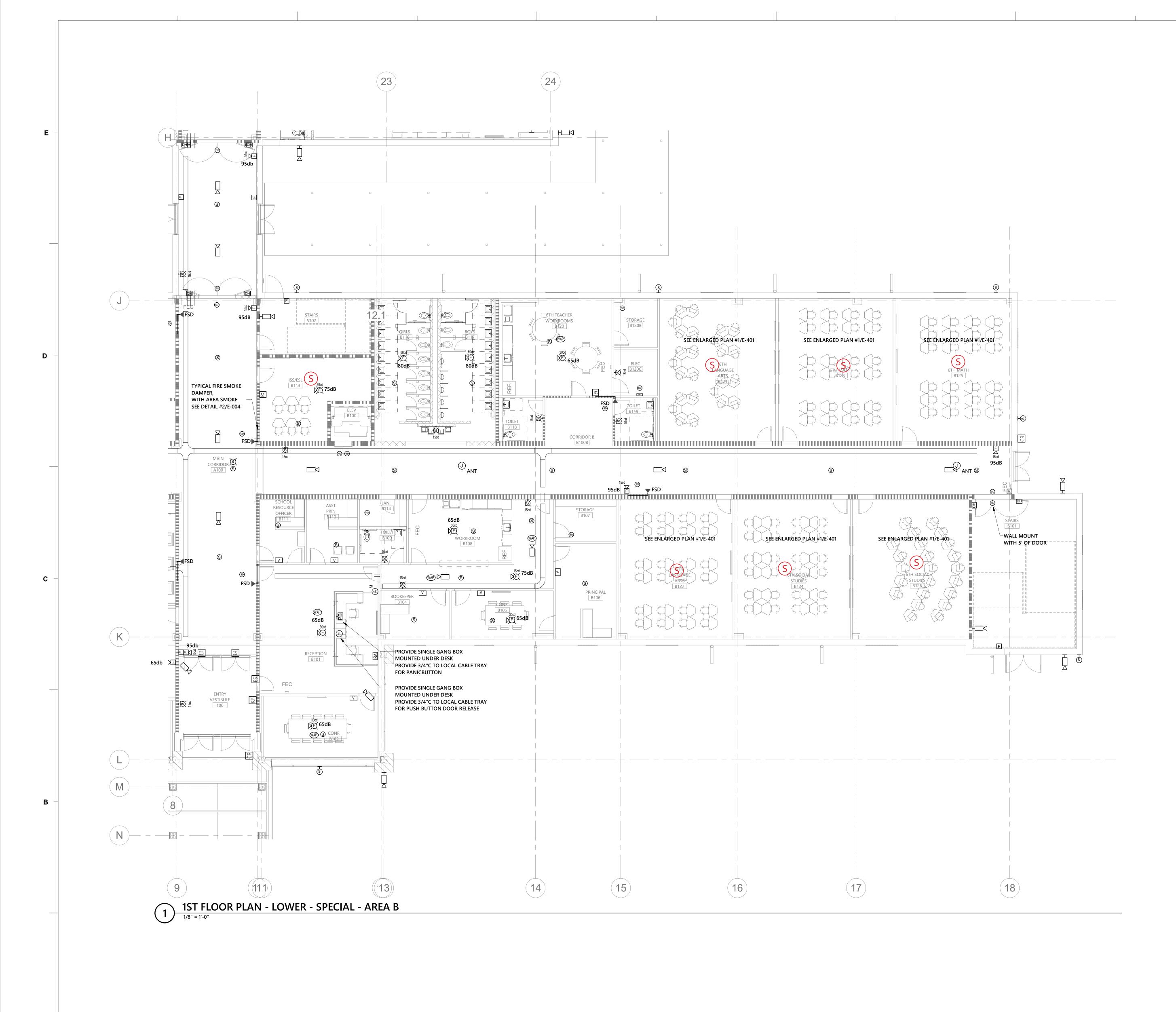




GENERAL NOTES:

AND IBC 907. AS PART OF THE SUBMITTALS, CONTRACTOR SHALL PROVIDE DECIBEL (dBA) RATING FOR ALL AUDIBLE NOTIFICATION DEVICES AND CANDELA (CD) RATING FOR ALL VISIBLE NOTIFICATION DEVICES ON DRAWINGS NEXT TO EACH SIGNALING DEVICE. LISTED DECIBEL RATINGS SHOWN ON PLANS ARE BASED ON 15dB ABOVE AMBIENT LEVELS. CONTRACTOR SHALL MEET OR EXCEED SHOWN LEVELS.



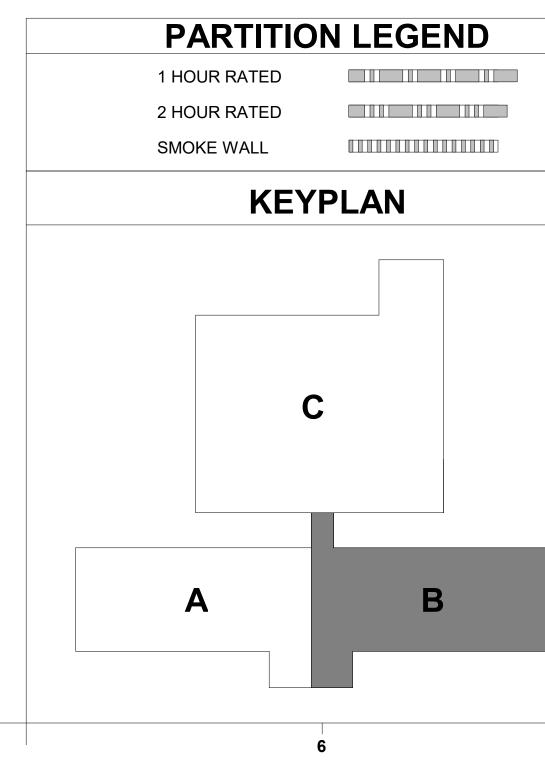


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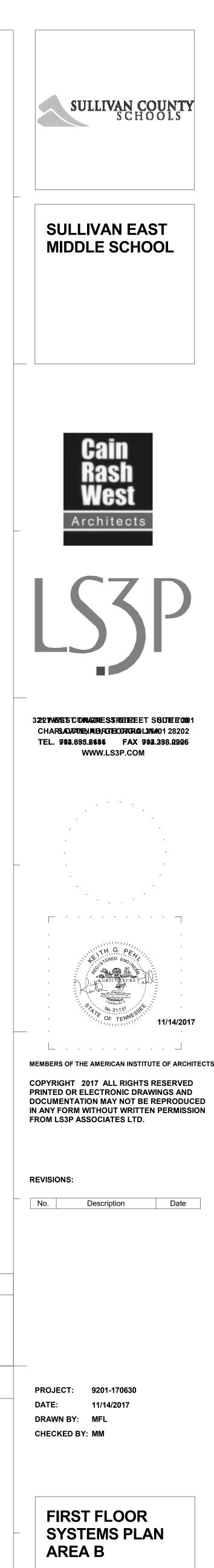
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GENERAL NOTES:

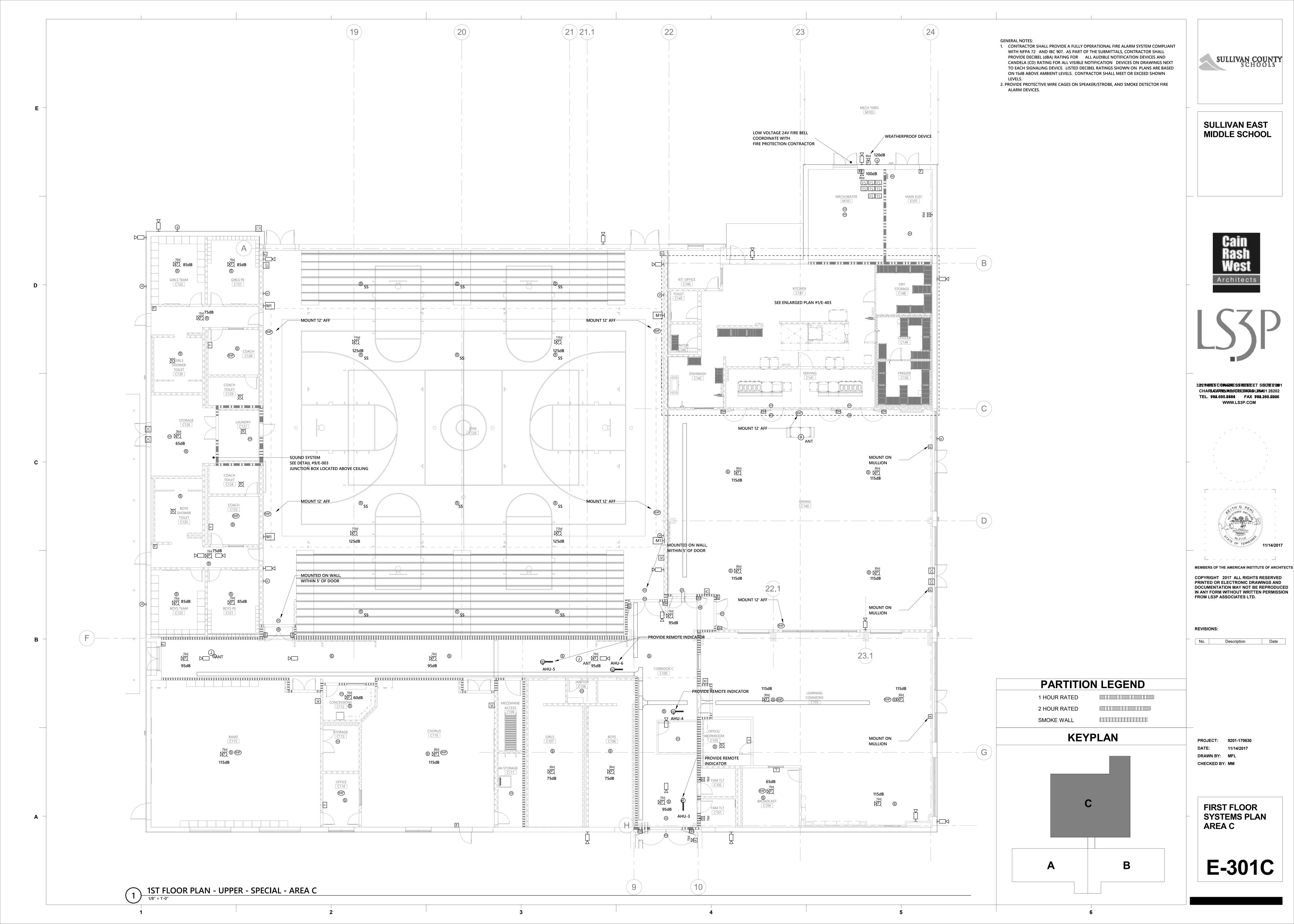
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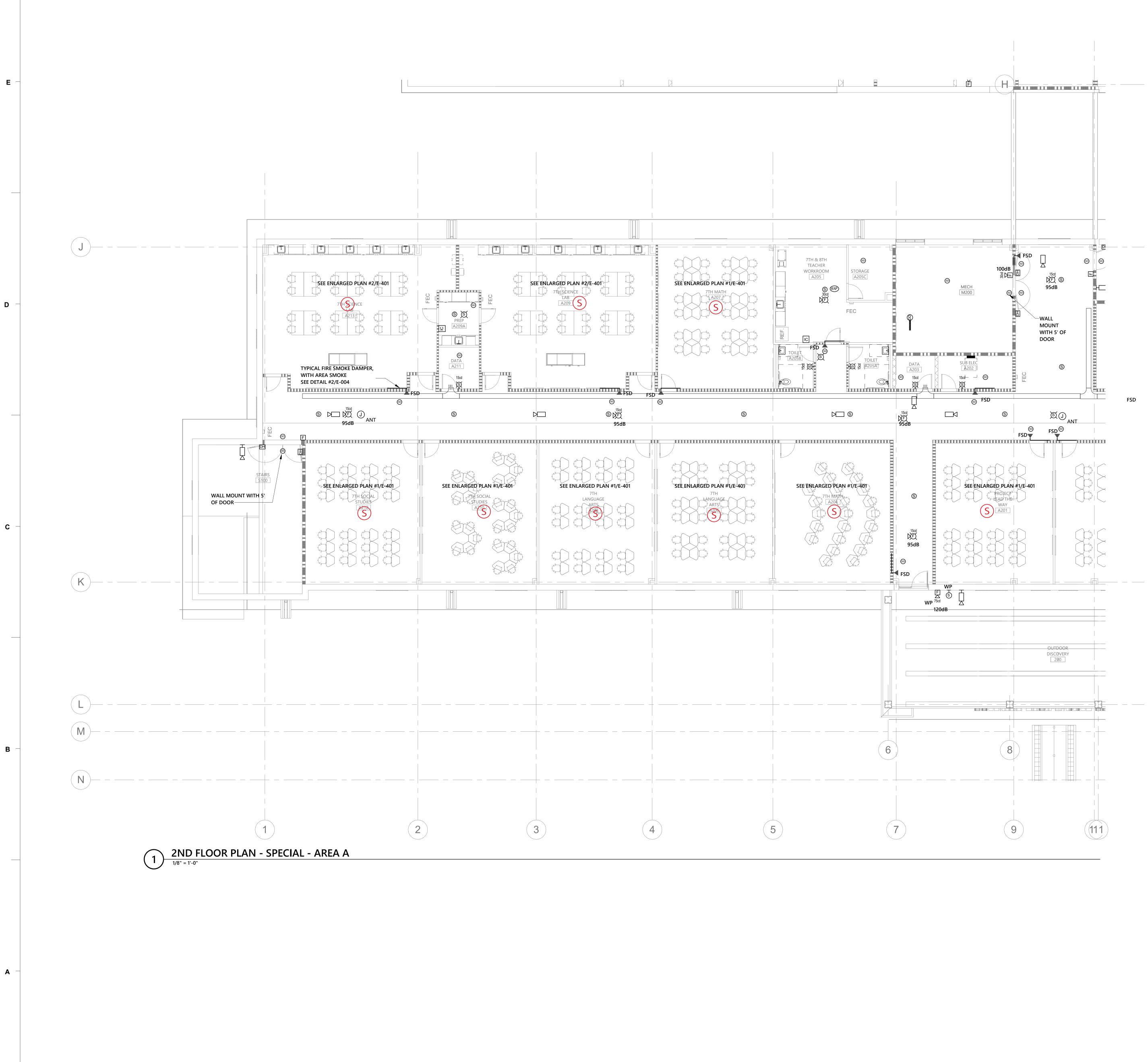




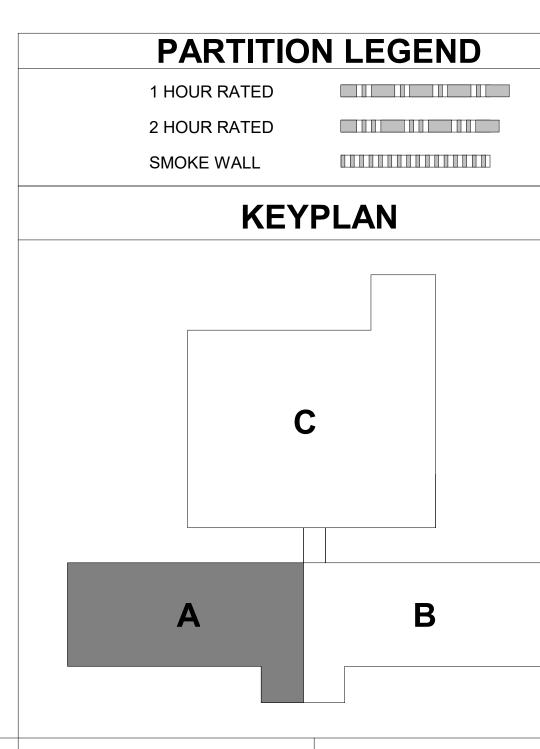








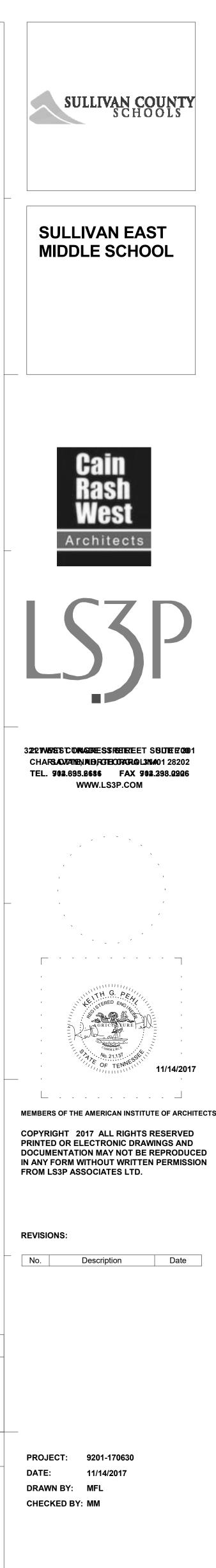
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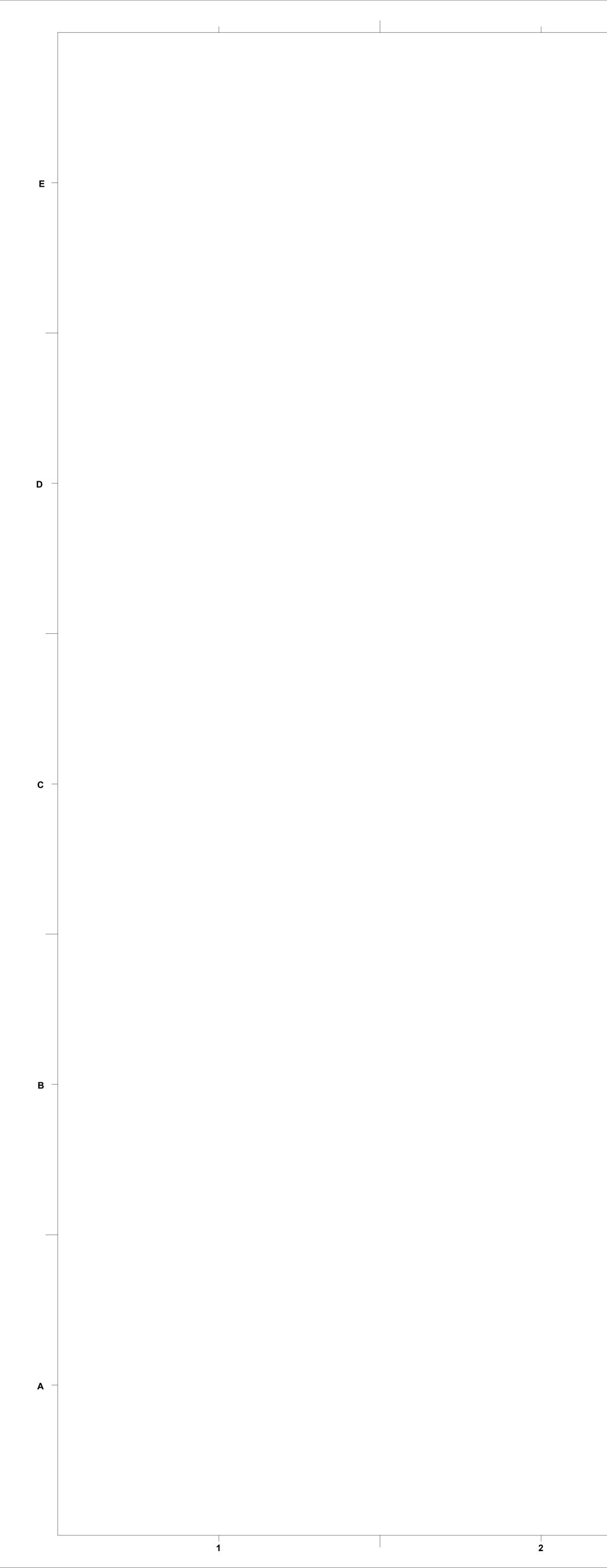
GENERAL NOTES:

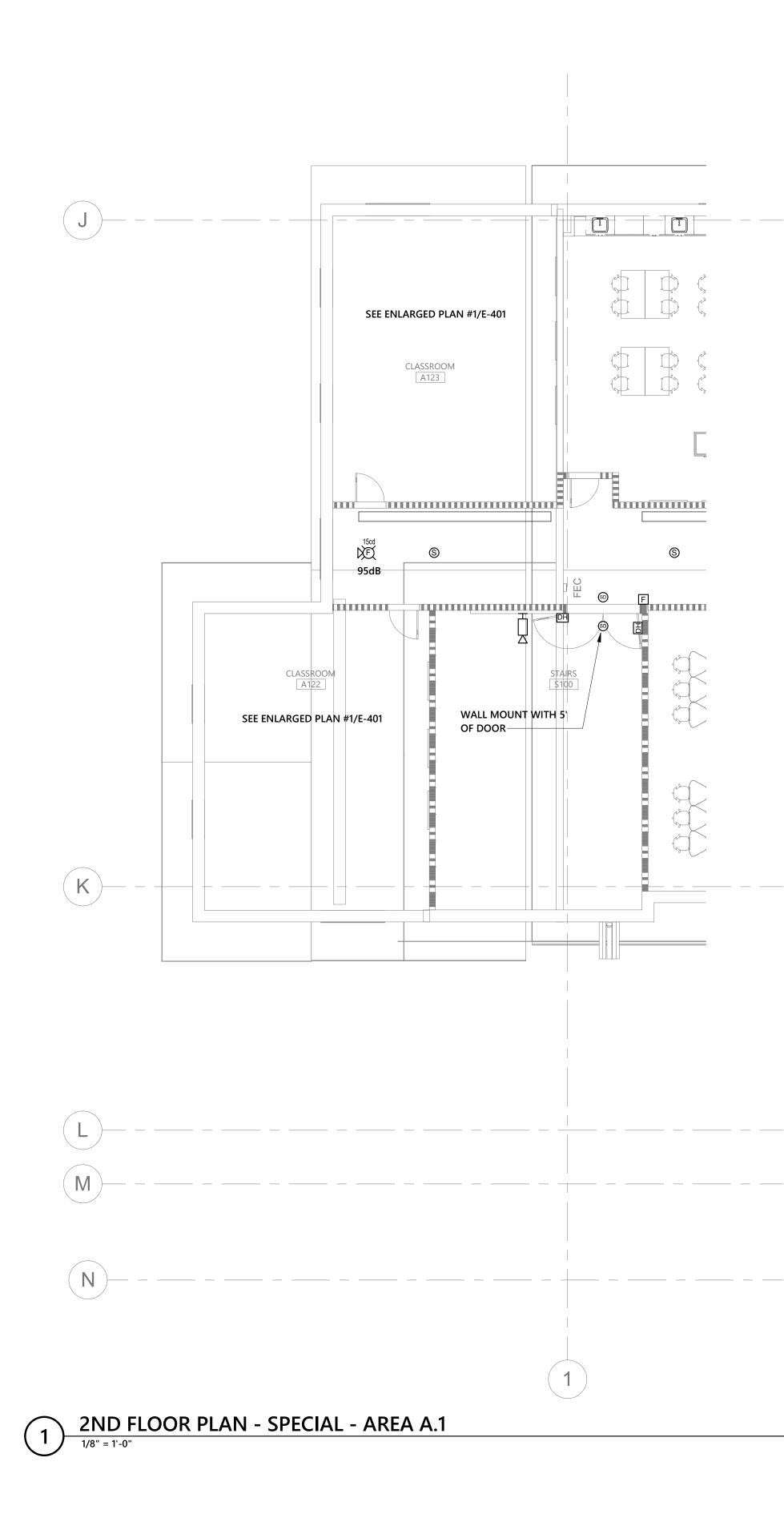
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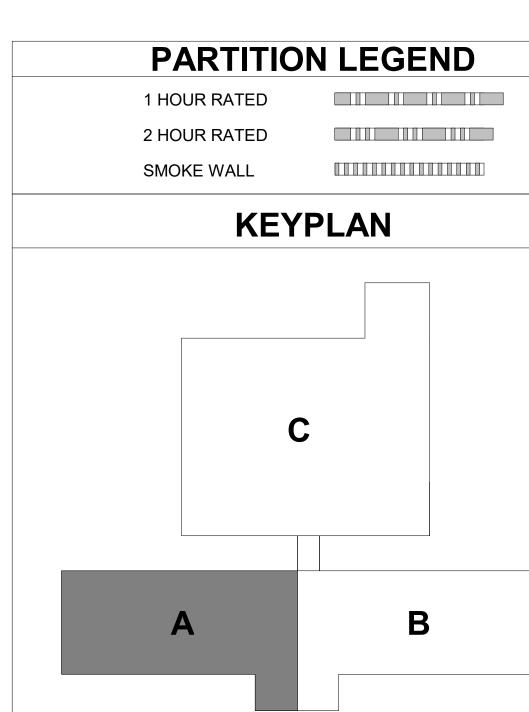




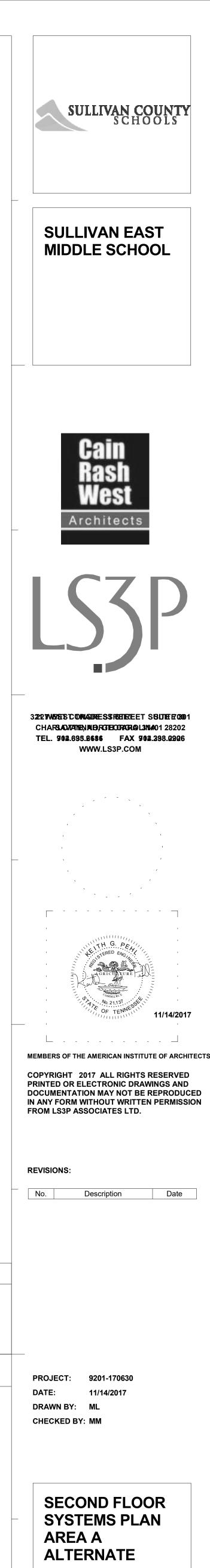




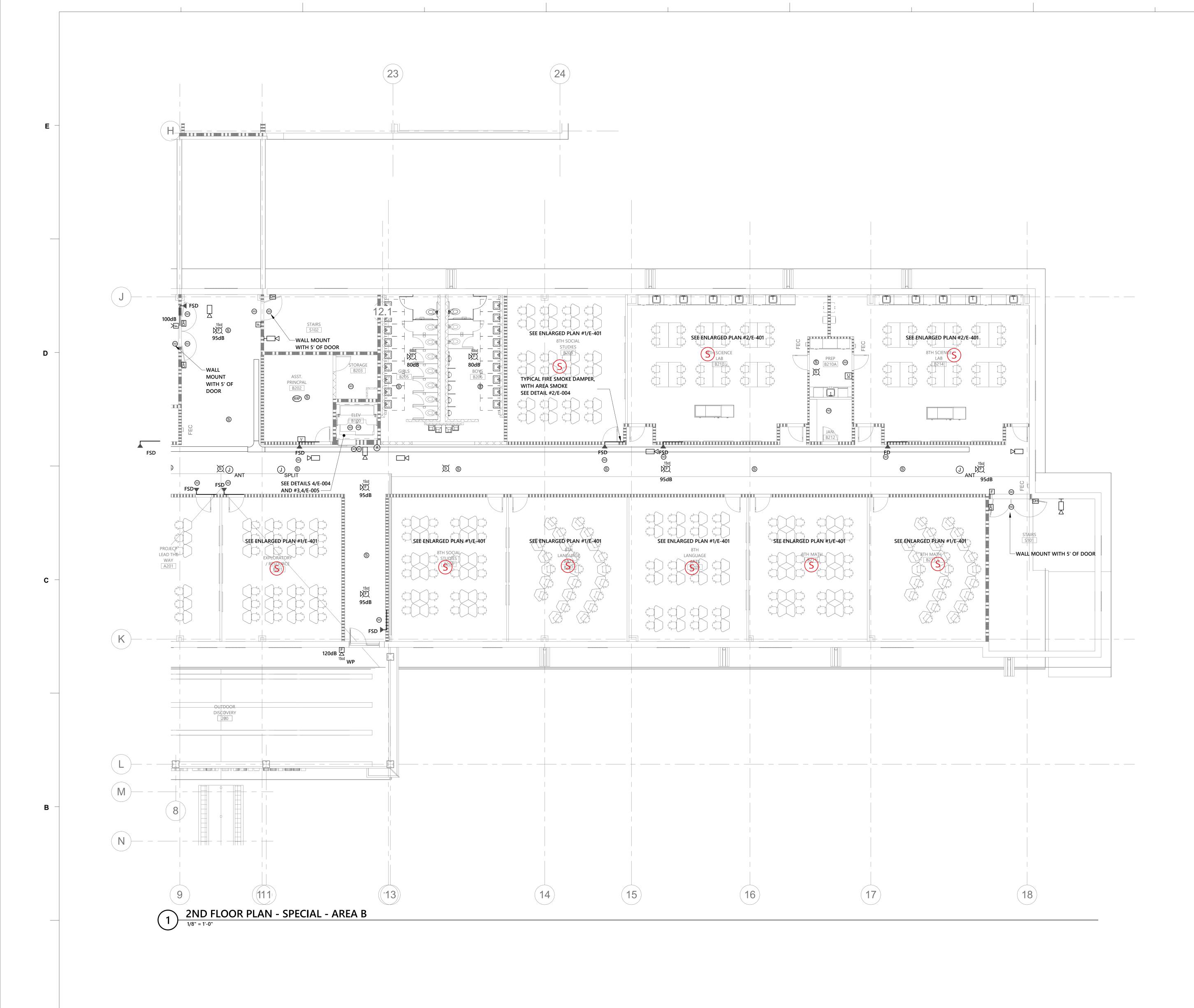
GENERAL NOTES: 1. CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL FIRE ALARM SYSTEM COMPLIANT WITH NFPA 72 AND IBC 907. AS PART OF THE SUBMITTALS, CONTRACTOR SHALL PROVIDE DECIBEL (dBA) RATING FOR ALL AUDIBLE NOTIFICATION DEVICES AND CANDELA (CD) RATING FOR ALL VISIBLE NOTIFICATION DEVICES ON DRAWINGS NEXT TO EACH SIGNALING DEVICE. LISTED DECIBEL RATINGS SHOWN ON PLANS ARE BASED ON 15dB ABOVE AMBIENT LEVELS. CONTRACTOR SHALL MEET OR EXCEED SHOWN LEVELS.







E-302A.1



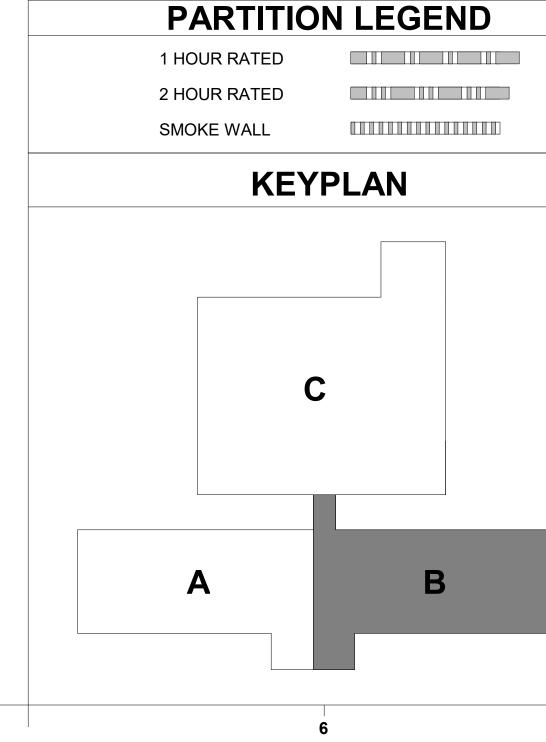
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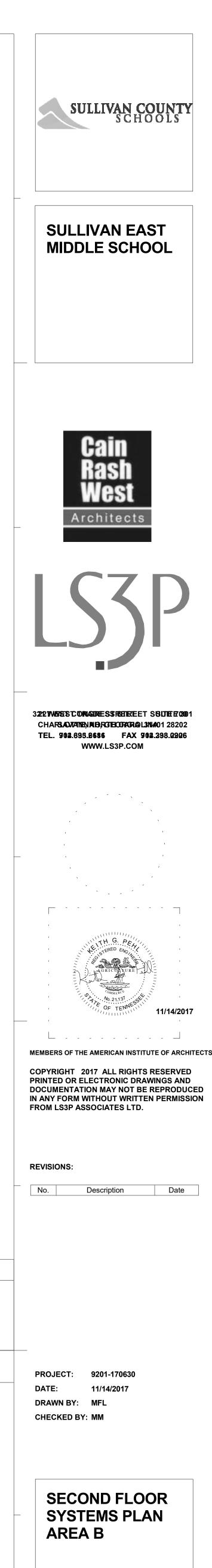
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GENERAL NOTES:

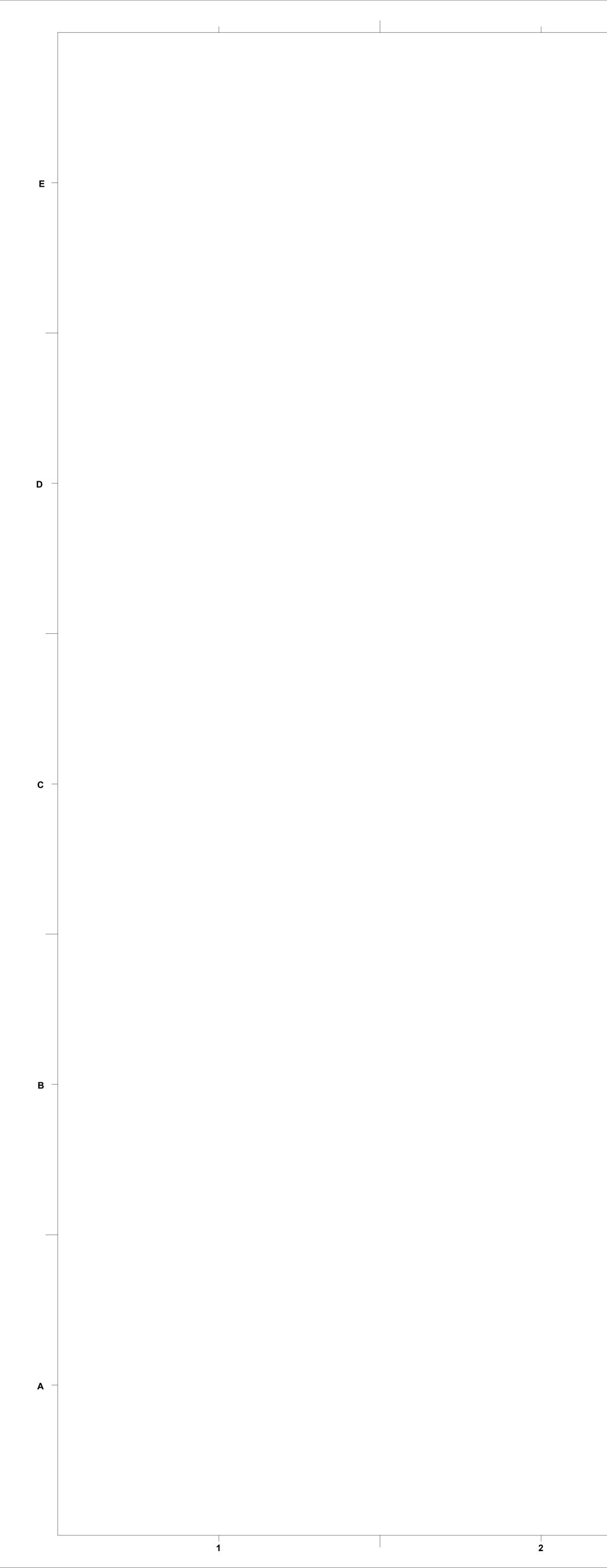
1. CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL FIRE ALARM SYSTEM COMPLIANT WITH NFPA 72 AND IBC 907. AS PART OF THE SUBMITTALS, CONTRACTOR SHALL PROVIDE DECIBEL (dBA) RATING FOR ALL AUDIBLE NOTIFICATION DEVICES AND CANDELA (CD) RATING FOR ALL VISIBLE NOTIFICATION DEVICES ON DRAWINGS NEXT TO EACH SIGNALING DEVICE. LISTED DECIBEL RATINGS SHOWN ON PLANS ARE BASED ON 15dB ABOVE AMBIENT LEVELS. CONTRACTOR SHALL MEET OR EXCEED SHOWN LEVELS.

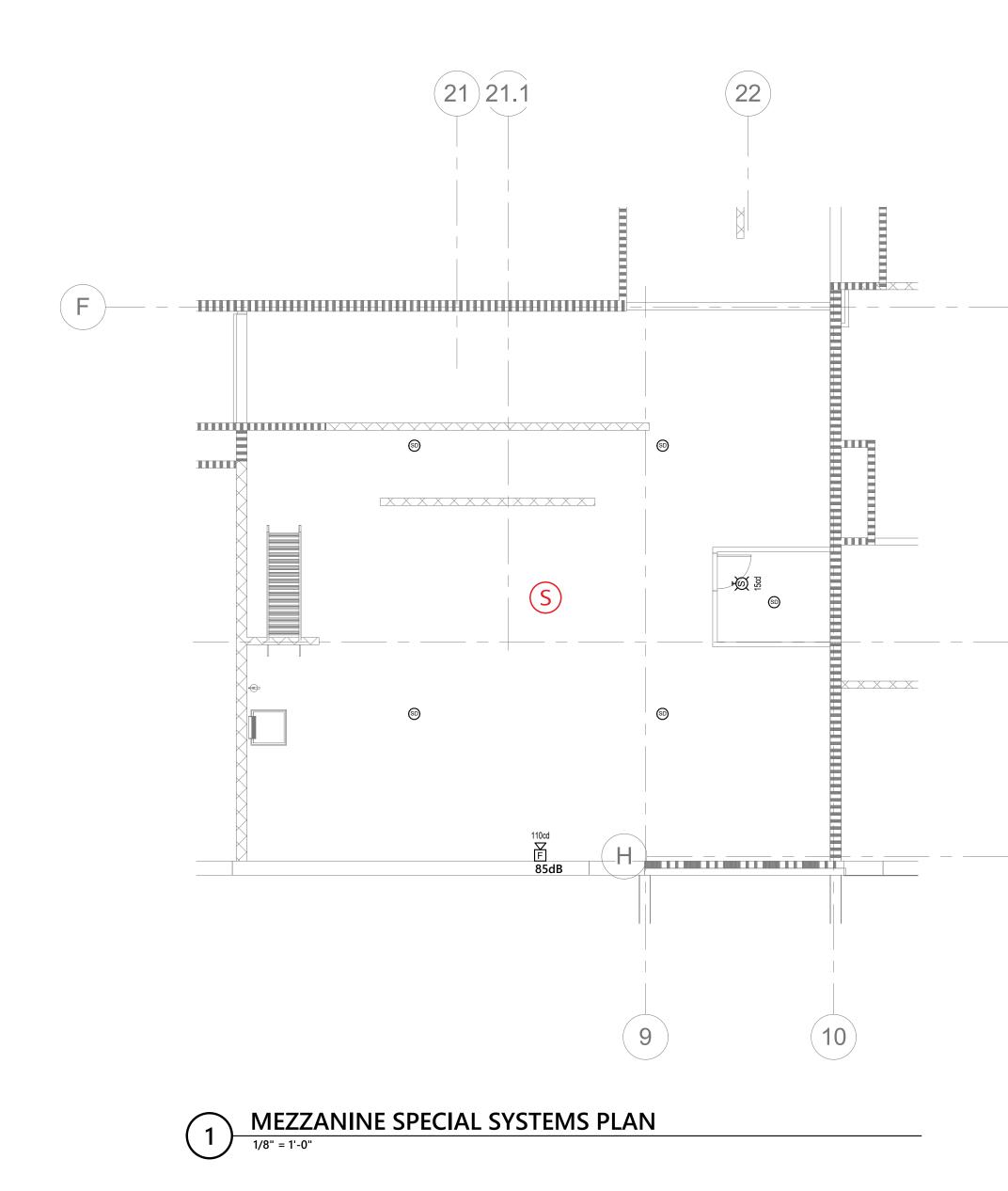






E-302B



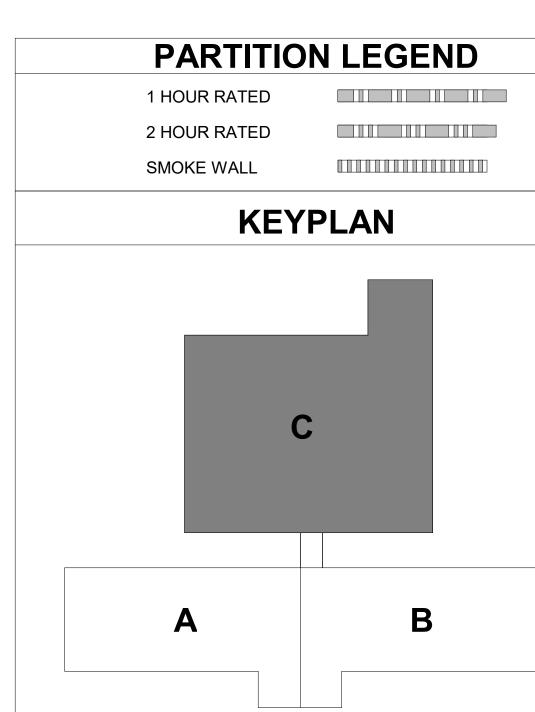


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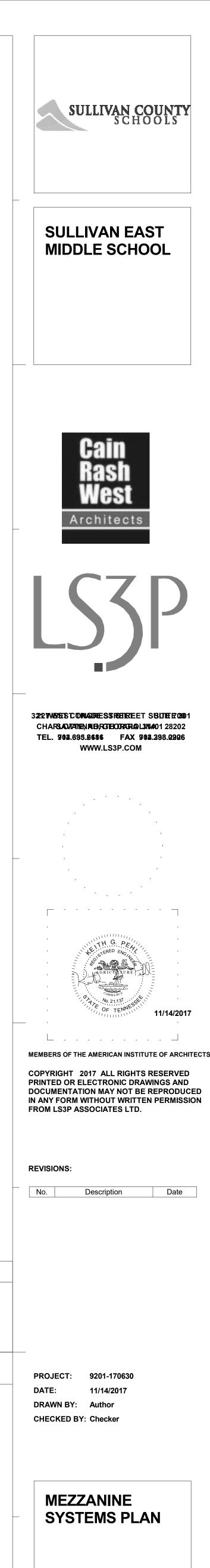
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3

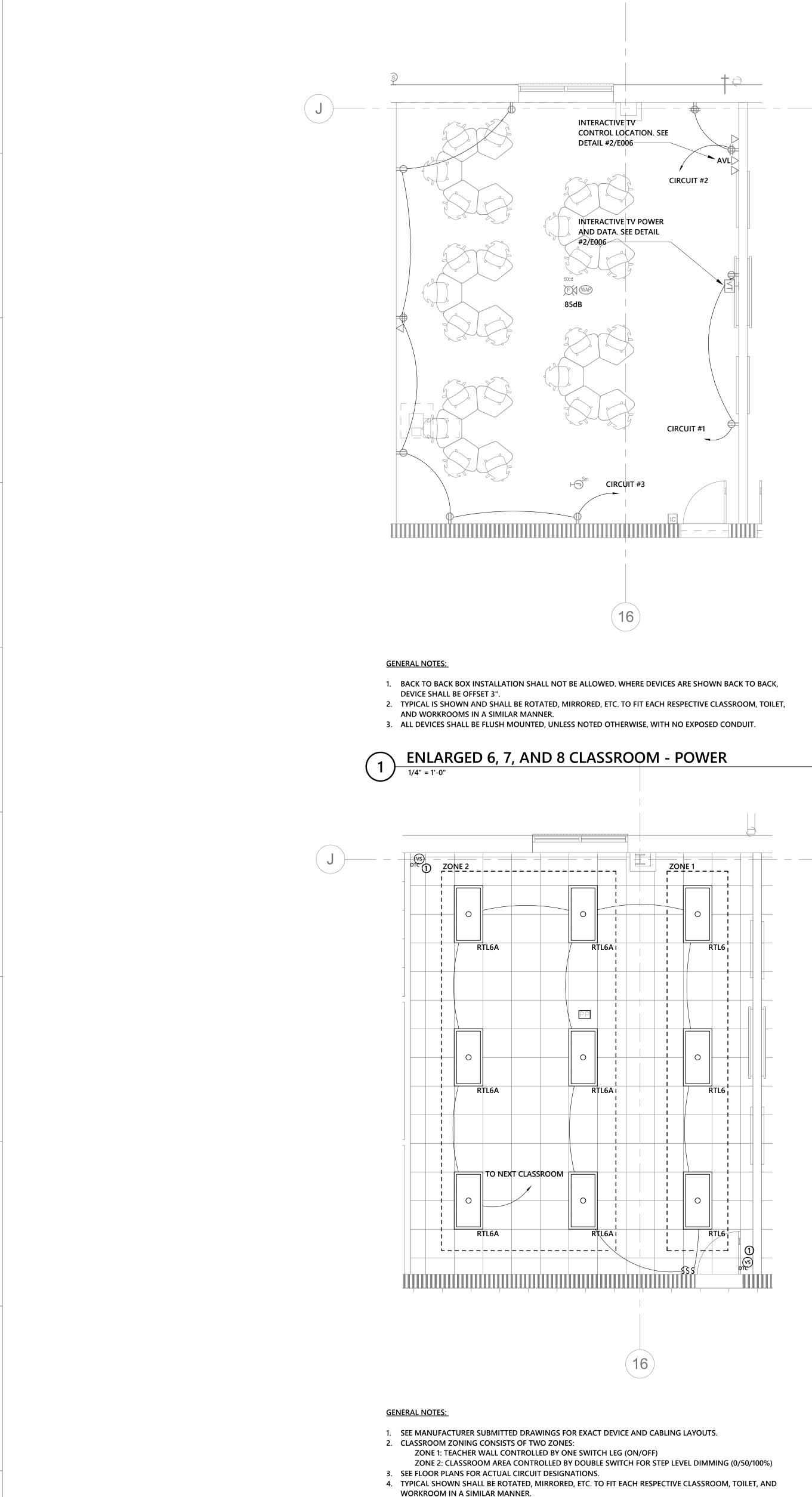
GENERAL NOTES: 1. CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL FIRE ALARM SYSTEM COMPLIANT WITH NFPA 72 CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL FIRE ALARM SYSTEM COMPLIANT WITH NFPA 72 CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL FIRE ALARM SYSTEM COMPLIANT WITH NFPA 72 AND IBC 907. AS PART OF THE SUBMITTALS, CONTRACTOR SHALL PROVIDE DECIBEL (dBA) RATING FOR ALL AUDIBLE NOTIFICATION DEVICES AND CANDELA (CD) RATING FOR ALL VISIBLE NOTIFICATION DEVICES ON DRAWINGS NEXT TO EACH SIGNALING DEVICE. LISTED DECIBEL RATINGS SHOWN ON PLANS ARE BASED ON 15dB ABOVE AMBIENT LEVELS. CONTRACTOR SHALL MEET OR EXCEED SHOWN LEVELS.











<u>KEYED NOTES:</u>

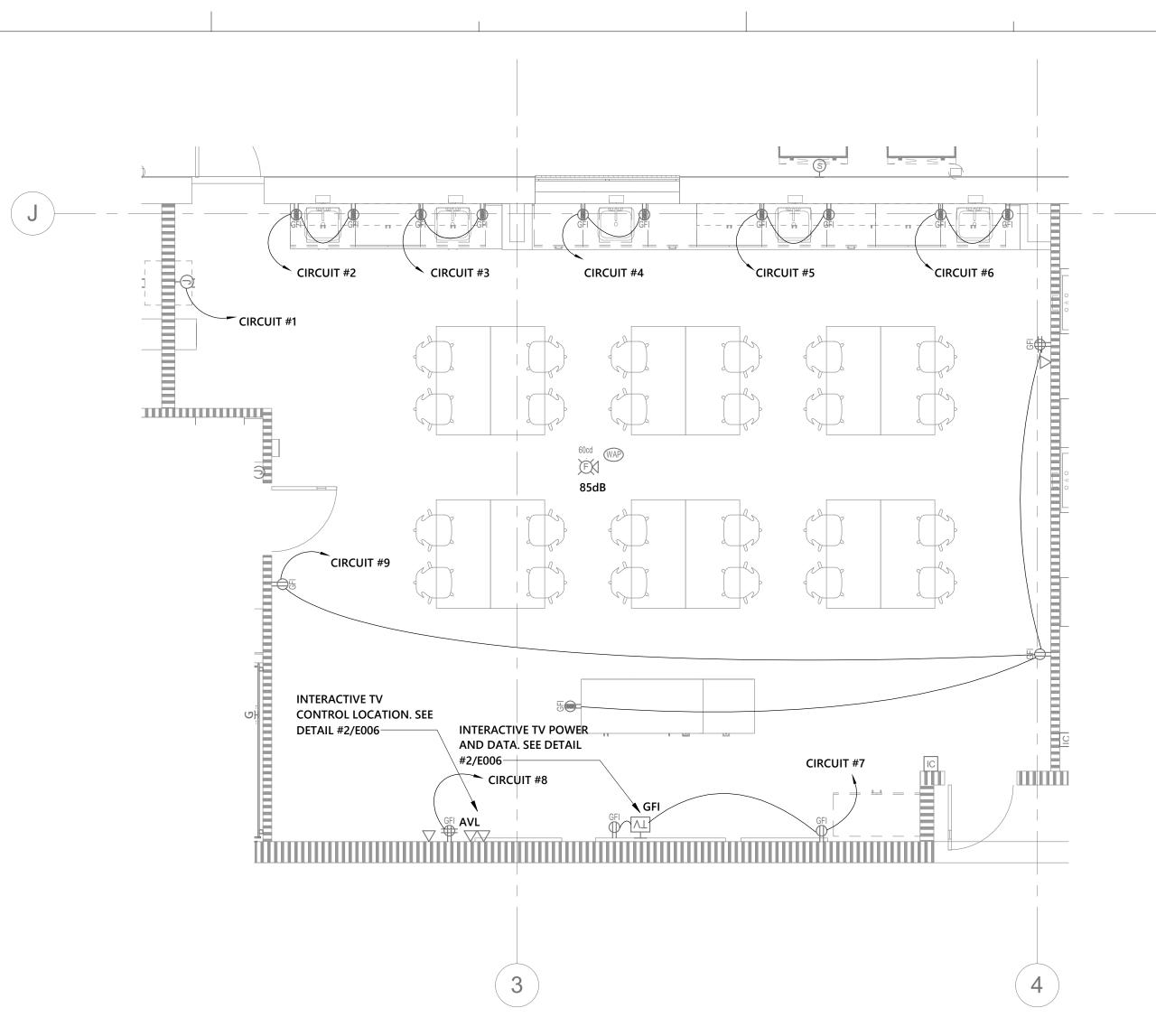
1. CORNER MOUNTED LOW VOLTAGE VACANCY SENSOR WITH 'CONE' ANGLED COVERAGE.



2

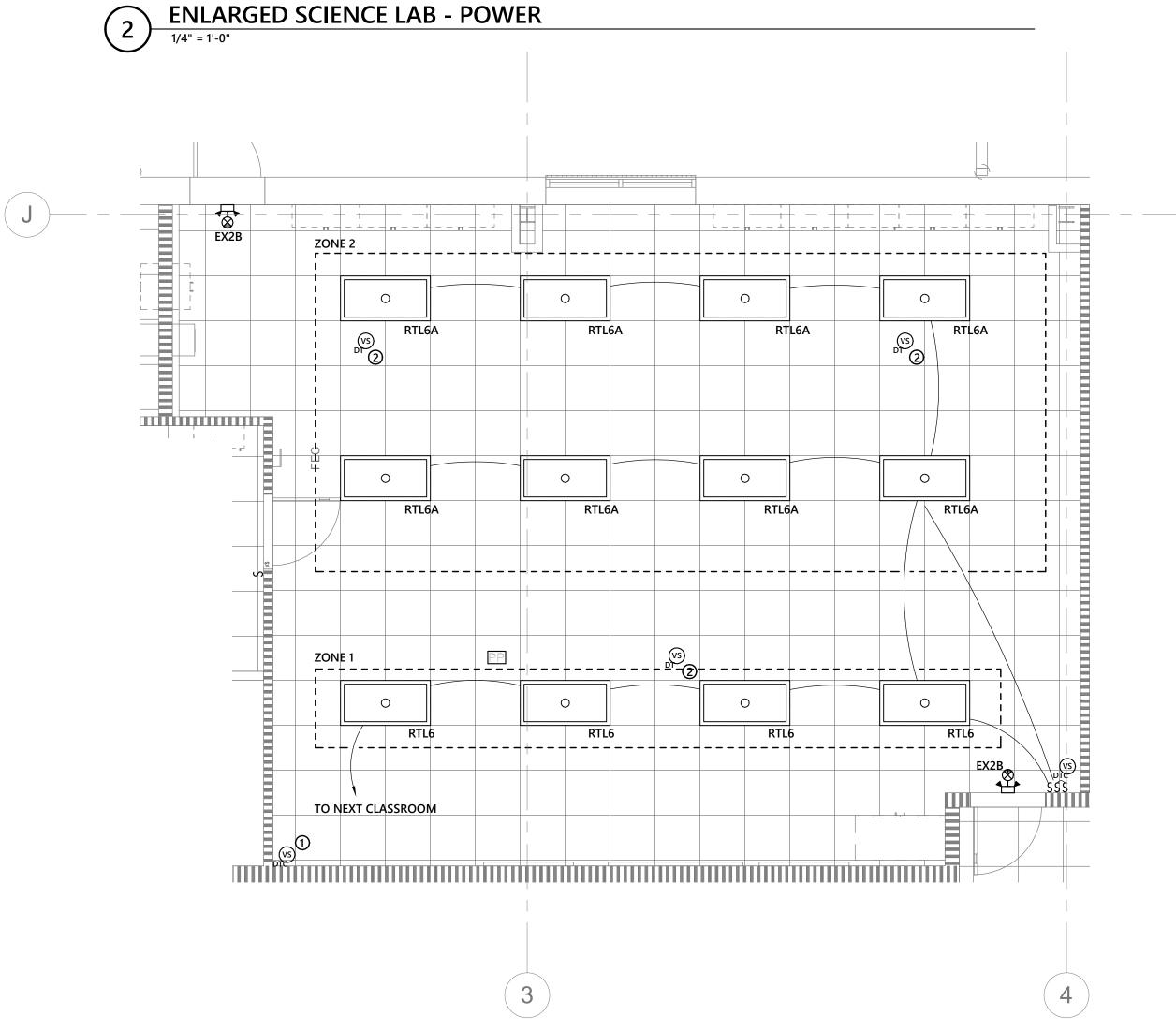
D

Α



# GENERAL NOTES:

- 1. BACK TO BACK BOX INSTALLATION SHALL NOT BE ALLOWED. WHERE DEVICES ARE SHOWN BACK TO BACK,
- DEVICE SHALL BE OFFSET 3". 2. TYPICAL IS SHOWN AND SHALL BE ROTATED, MIRRORED, ETC. TO FIT EACH RESPECTIVE CLASSROOM, TOILET,
- AND WORKROOMS IN A SIMILAR MANNER. 3. ALL DEVICES SHALL BE FLUSH MOUNTED, UNLESS NOTED OTHERWISE, WITH NO EXPOSED CONDUIT.



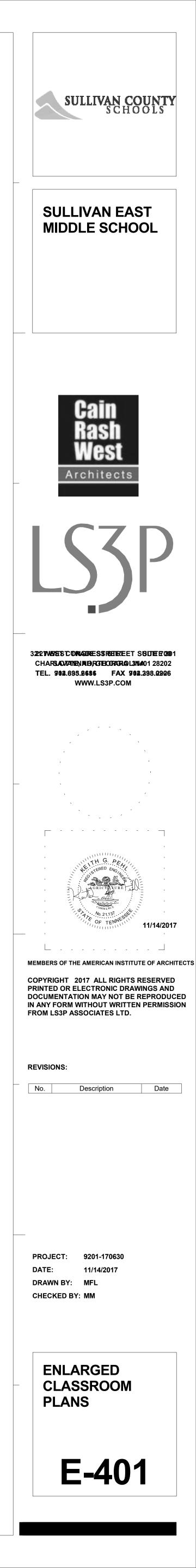
## GENERAL NOTES:

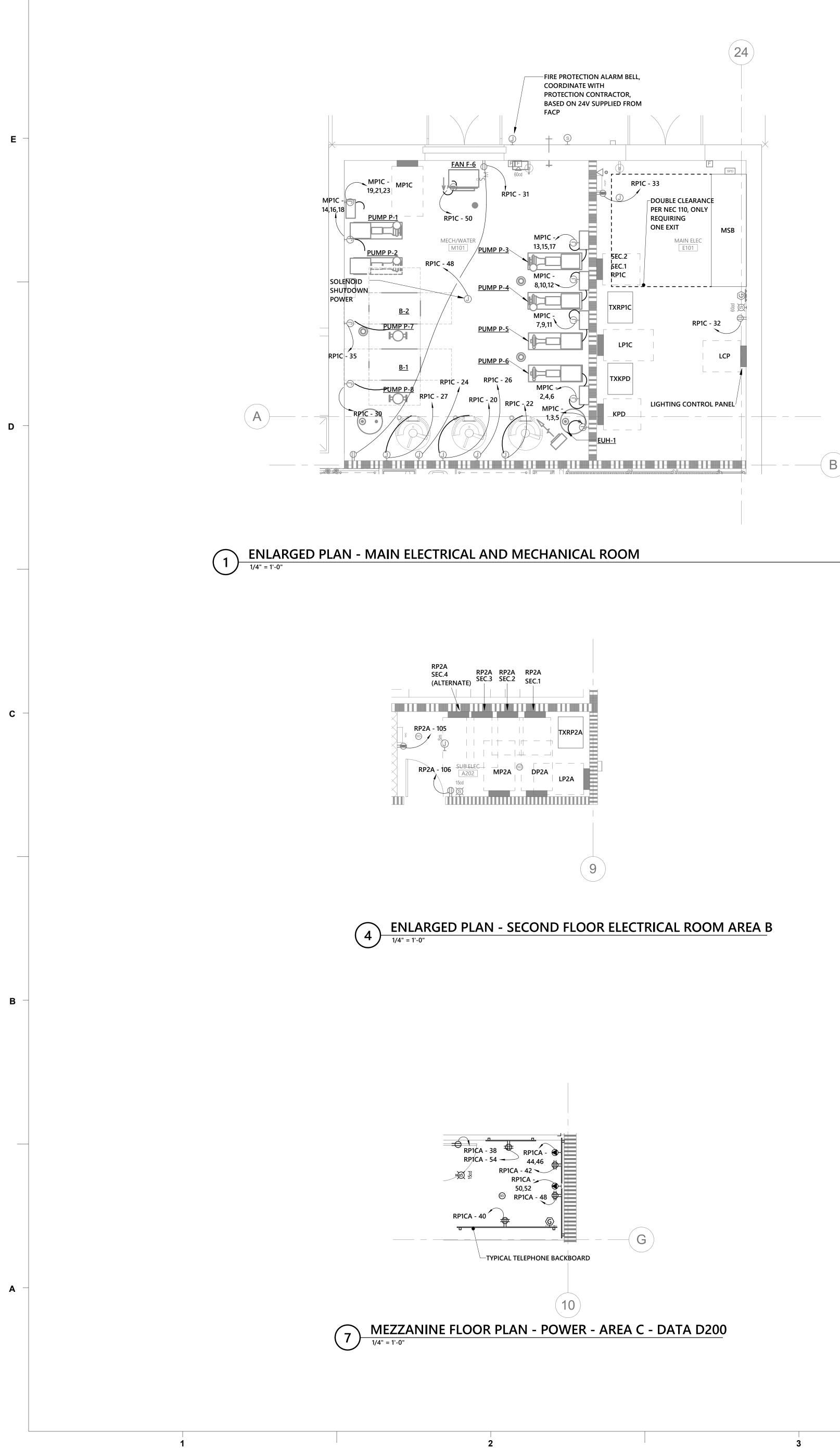
- 1. SEE MANUFACTURER SUBMITTED DRAWINGS FOR EXACT DEVICE AND CABLING LAYOUTS. 2. CLASSROOM ZONING CONSISTS OF TWO ZONES: ZONE 1: TEACHER WALL CONTROLLED BY ONE SWITCH LEG (ON/OFF)
- ZONE 2: CLASSROOM AREA CONTROLLED BY DOUBLE SWITCH FOR STEP LEVEL DIMMING (0/50/100%) 3. SEE FLOOR PLANS FOR ACTUAL CIRCUIT DESIGNATIONS.
- 4. TYPICAL SHOWN SHALL BE ROTATED, MIRRORED, ETC. TO FIT EACH RESPECTIVE CLASSROOM, TOILET, AND WORKROOM IN A SIMILAR MANNER.

KEYED NOTES:

1. CORNER MOUNTED LOW VOLTAGE VACANCY SENSOR WITH 'CONE' ANGLED COVERAGE. 2. CEILING MOUNTED LOW VOLTAGE VACANCY SENSOR WITH 360 DEGREE COVERAGE.

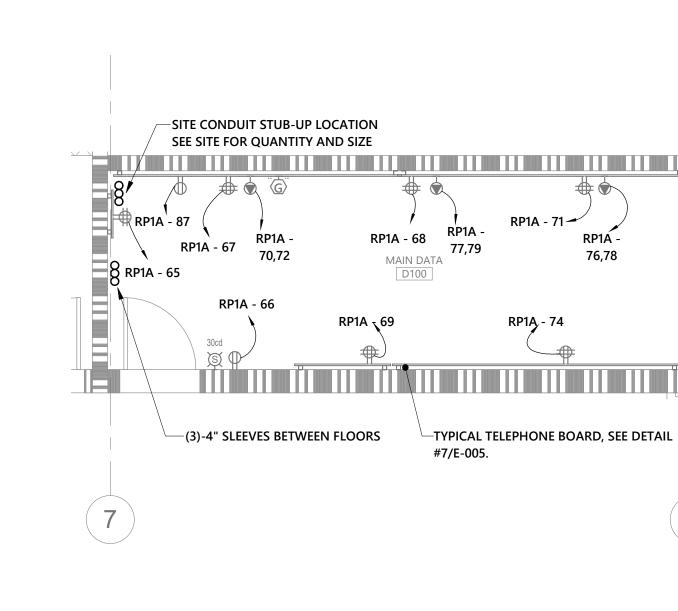
### ENLARGED LIGHTING PLAN - SCIENCE LAB 4 1/4" = 1'-0"



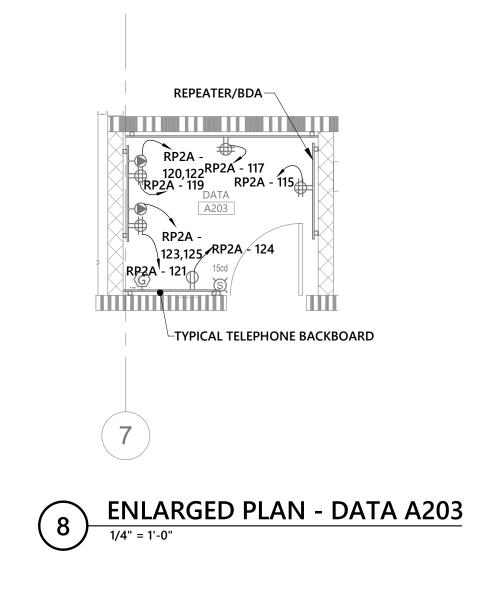


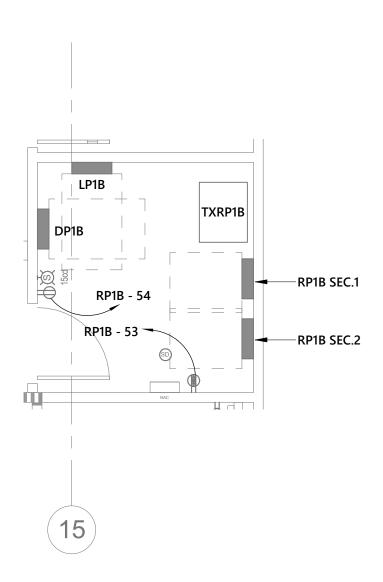
# RP1A RP1A SEC.1 SEC.2 TXRP1A RP1A - 85 RP1A MP1 D<u>P1</u>A

(2)



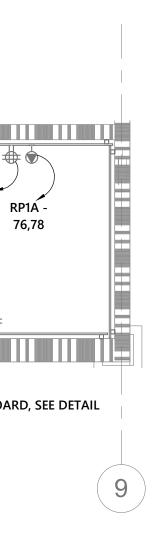
ENLARGED PLAN - MDF ROOM (5)-1/4" = 1'-0"

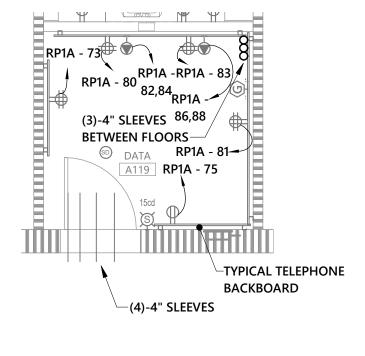




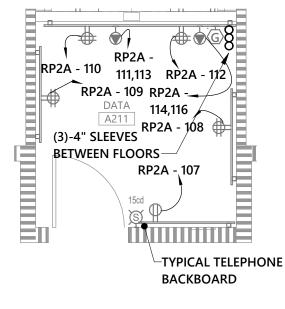


# ENLARGED PLAN - FIRST FLOOR ELECTRICAL ROOM AREA B 3 ENLAR 1/4" = 1'-0"

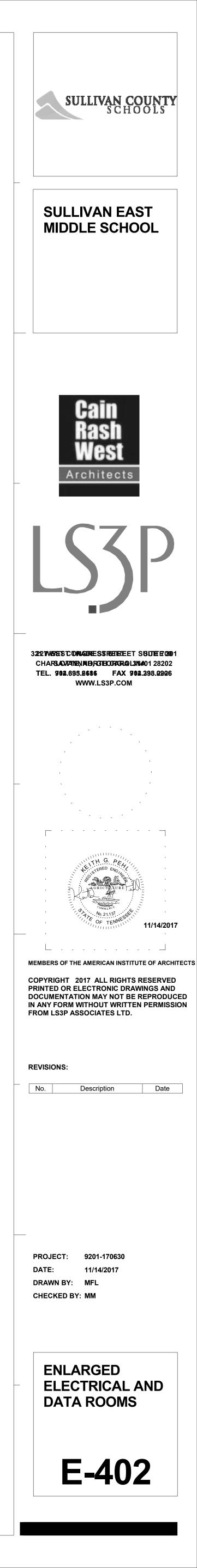












ITEM NO.	COUNT	DESCRIPTION	AMPS	HP	ĸw	VOLTS	PHASE	CONN. TYPE	NEMA	ELEC. CONN. HEIGHT	REMARKS	CIRCUIT
	1	PRE-WIRED AUTOMATIC REVERSING CONTROL PANEL	0		0	120	1			0"	COORDINATE LOCATION WITH FOOD SERVICE PLANS.	KPL2 - 45
01	1	AIR CURTAIN		1/4		120	1	DIRECT		90"	MICROSWITCH AT DOOR.	KPL1 - 1
02	1	SCALE	5			120	1	CORD & PLUG	5-15P	48"		KPL1 - 2
04	1	SLICER	4			120	1	CORD & PLUG	5-15P	48"		KPL1 - 3
07	1	FOOD CUTTER		1/2		120	1	CORD & PLUG	5-15P	48"		KPL1 - 4
08	1	30QT MIXER	2.8			208	1	DIRECT		18"		KPL1 - 5,7
18	1	WALK-IN COOLER	15			120	1	DIRECT		102"	LIGHTING CIRCUIT	KPL1 - 6
18.1	1	WALK-IN FREEZER	15			120	1	DIRECT		102"	LIGHTING CIRCUIT AND DOOR HEAT	KPL1 - 8
19	1	EVAPORATOR COIL, COOLER	2.3			120	1	DIRECT		102"		KPL1 - 9
20	1	CONDENSING UNIT, COOLER	6.6			208	3	DIRECT		18"		KPL1 - 11,13,7
21	1	EVAPORATOR COIL, FREEZER	10.3			208	1	DIRECT		102"		KPL1 - 10,12
22	1	CONDENSING UNIT, FREEZER	13.1			208	3	DIRECT		18"		
31	1	FOOD PROCESSOR	12			120	1	CORD & PLUG	5-15P	48"		KPL1 - 14,16, KPL1 - 17
32	1	EXHAUST HOOD	20			120	1	DIRECT	0 101	104"		KPL1 - 17 KPL1 - 19
32.1	I 1	EXHAUST HOOD	20			120	1	DIRECT		104"		KPL1 - 19 KPL1 - 20
32.3	1	CONTROL PANEL	10			120	1	DIRECT		48"		KPL1 - 20
33		FRYER	48			208	3	DIRECT		18"		KPL1 - 22,24
33.1		FRYER DUMP STATION	6.3			120	1	CORD & PLUG	5-15P	18"		KPL1 - 23
34	1	COMBIOVEN, 10-PAN	0.5		37	208	3	DIRECT	5-151	1"		
34.1	1	COMBIOVEN, 6-PAN			22.1	208	3	DIRECT		1"		KPL1 - 25,27
			20		22.1		3			24"		KPL1 - 28,30 KPL1 - 34,36
35 36	1	KETTLE, 40 QT.	30 32			208	-	DIRECT		24		
	1					208	3	DIRECT				KPL1 -31,33,
38	1		7.2			208		DIRECT		66"		KPL1 - 40,41
40			15.4			208	1	CORD & PLUG	6-20P	48"		KPL1 - 37,39
41	1	PASS THRU HEATED CABINET	7.8			120/208	1	DIRECT		90"		KPL2 - 1,3
42	1	PASS THRU REFRIGERATOR	7.2			120	1	CORD & PLUG	5-15P	90"		KPL2 - 12,14
45	1	COFFEE BREWER, AIRPOT	25.8			120/208	1	DIRECT		48"		KPL2 - 11,13,
52	1	DISHMACHINE, CONVEYOR TYPE	131	-		208	3	DIRECT		64"		KPL1 - 41
54	1	DISPOSER		3		208	3	DIRECT		18"		KPL1 - 43
59	2	HOT FOOD COUNTER	31.3			120	1		L6-30			KPL2 - 7 & 3
60	2	COLD FOOD COUNTER	4.2			120	1	CORD & PLUG	5-15P	6"		KPL2 - 8
62	1	REFRIGERATOR, GLASS DOOR	8.1			120	1	CORD & PLUG	5-15P	48"		KPL2 - 9 & 3
63	2	MILK COOLER	5.6			120	1	CORD & PLUG	5-15p	6"		
65	2	P.O.S.	10			120	1	CORD & PLUG	5-15P	18"		KPL2 - 10 &
66	1	CONVECTION OVEN	31			208	3	DIRECT		24"		KPL2 - 24,26
66	1	CONVECTION OVEN - CONTINUED	31			208	3	DIRECT		48"		KPL2 - 25,2
69	1	REFRIGERATOR, GLASS DOOR	8.1			120	1	CORD & PLUG	5-15P	48"		KPL2 - 40
72	1	PASS THRU REFRIGERATOR	7.2			120	1	CORD & PLUG	5-15P	90"		KPL2 - 4,6
73	1	PASS THRU HEATED CABINET	7.8			120/208	1	DIRECT		90"		KPL2 - 2
74	1	REFRIGERATOR	6.5			120	1	CORD & PLUG	5-15P	48"		KPL2 - 43

# NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL DISCONNECT SWITCHES, RECEPTACLE, ETC. TO MECHANICAL/PLUMBING AND KITCHEN EQUIPMENT AS REQUIRED. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE ALL CORDS, PLUGS, CABLES, ETC. ON EQUIPMENT REQUIRING SUCH ITEMS.

2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL MECHANICAL/PLUMBING AND KITCHEN EQUIPMENT AS REQUIRED. 3. ALL DISCONNECT SWITCHES, FUSE SIZES, PLUG CONFIGURATIONS, BREAKER SIZES, ETC., SHALL BE COORDINATED WITH SHOP DRAWINGS PRIOR TO INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF COORDINATION WILL BE REMOVED AND INSTALLED CORRECTLY AT THE ELECTRICAL CONTRACTOR'S EXPENSE.

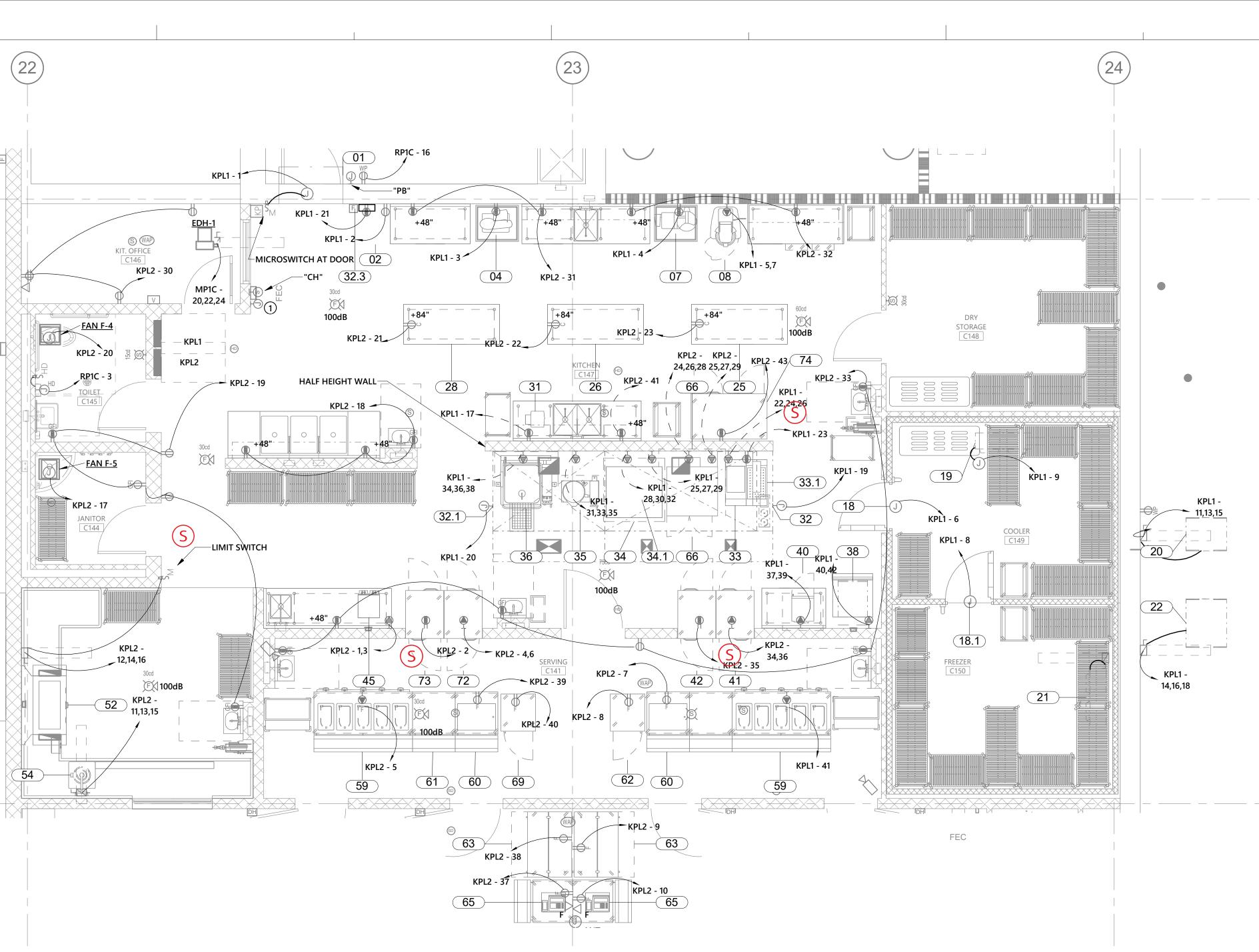
4. ELEC. CONTRACTOR SHALL PULL A GROUND AND A NEUTRAL WITH ALL CIRCUITS, WHETHER SO DESIGNATED OR NOT. 5. ALL 15 AND 20 AMP RECEPTACLES IN KITCHEN AND SERVING AREA SHALL BE GFI. (THIS APPLIES TO ACCESSIBLE RECEPTACLES ONLY, THAT ARE NOT PROTECTED BY GFI BREAKER.)

6. EXTEND FOUR 1"EC FROM KITCHEN PANEL TO ABOVE ACCESSIBLE CEILING FOR FUTURE. 7. SEE KITCHEN EQUIPMENT SHUTDOWN DETAIL FOR CONTROL OF ITEMS LOCATED UNDER KITCHEN HOOD. 8. PROVIDE A POWER FAILURE ALARM MODULE INLINE WITH GFCI FOR MONITORING. LOCATE ALARM MODULE IN KITCHEN SPACE ADJACENT TO FREEZER.

	ELECTRICAL SYMBOLS
Ē	J-BOX, FLUSH IN WALL
Ð	J-BOX FROM ABOVE
٠	WATERPROOF CONDUIT STUB
Ħ	DUPLEX RECEPTACLE OUTLET
С	KITCHEN CEILING BOX OUTLET BY E.C.
F	KITCHEN FLOOR BOX OUTLET BY E.C.
H	SPECIAL RECEPTACLE TO MATCH EQUIPMENT
UC	UTILITY CHASE MOUNTED OUTLET
UDS	UTILITY DISTRIBUTION SYSTEM
F.S.E.C	FOOD SERVICE EQUIPMENT CONTRACTOR

Α

2



## **GENERAL NOTES:**

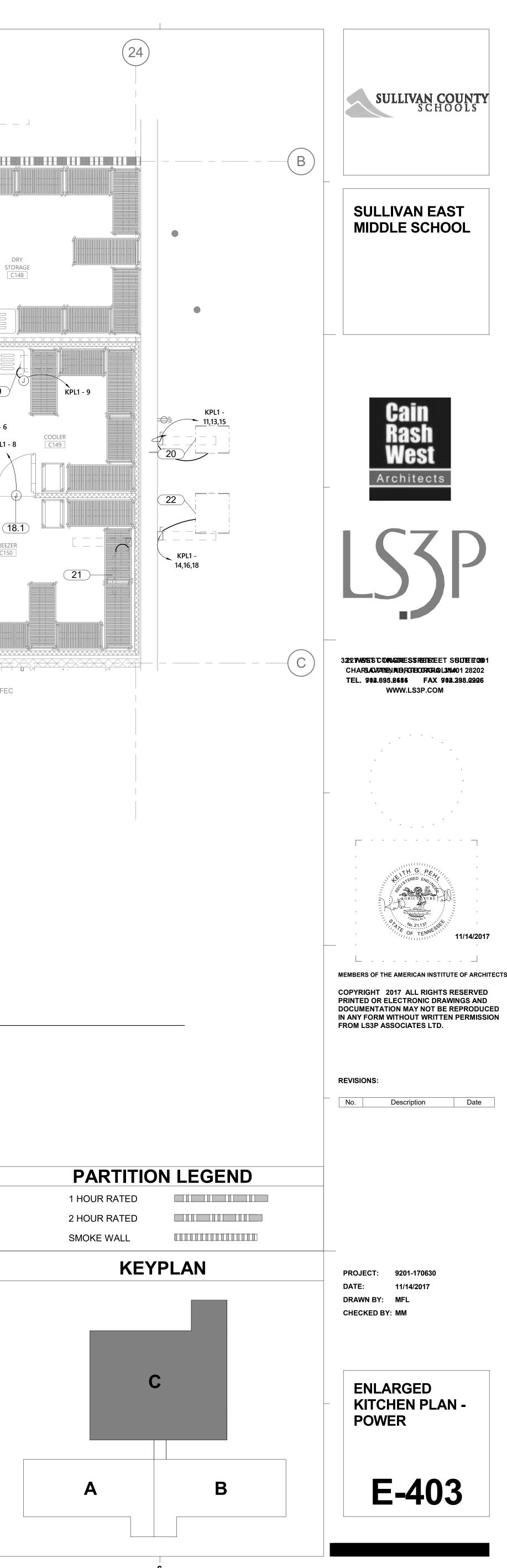
1. COORDINATE ALL DEVICE LOCATIONS WITH KITCHEN CONSULTANT PLANTS. 2. COORIDNATE FINAL KITCHEN DEVICE POWER CONNECTIONS WITH KITCHEN CONSULTANT AND SCHEDULE. 3. DEVICES WILL BE MOUNTED AT HEIGHT SPECIFIED IN SCHEDULE UNLESS OTHERWISE NOTED.

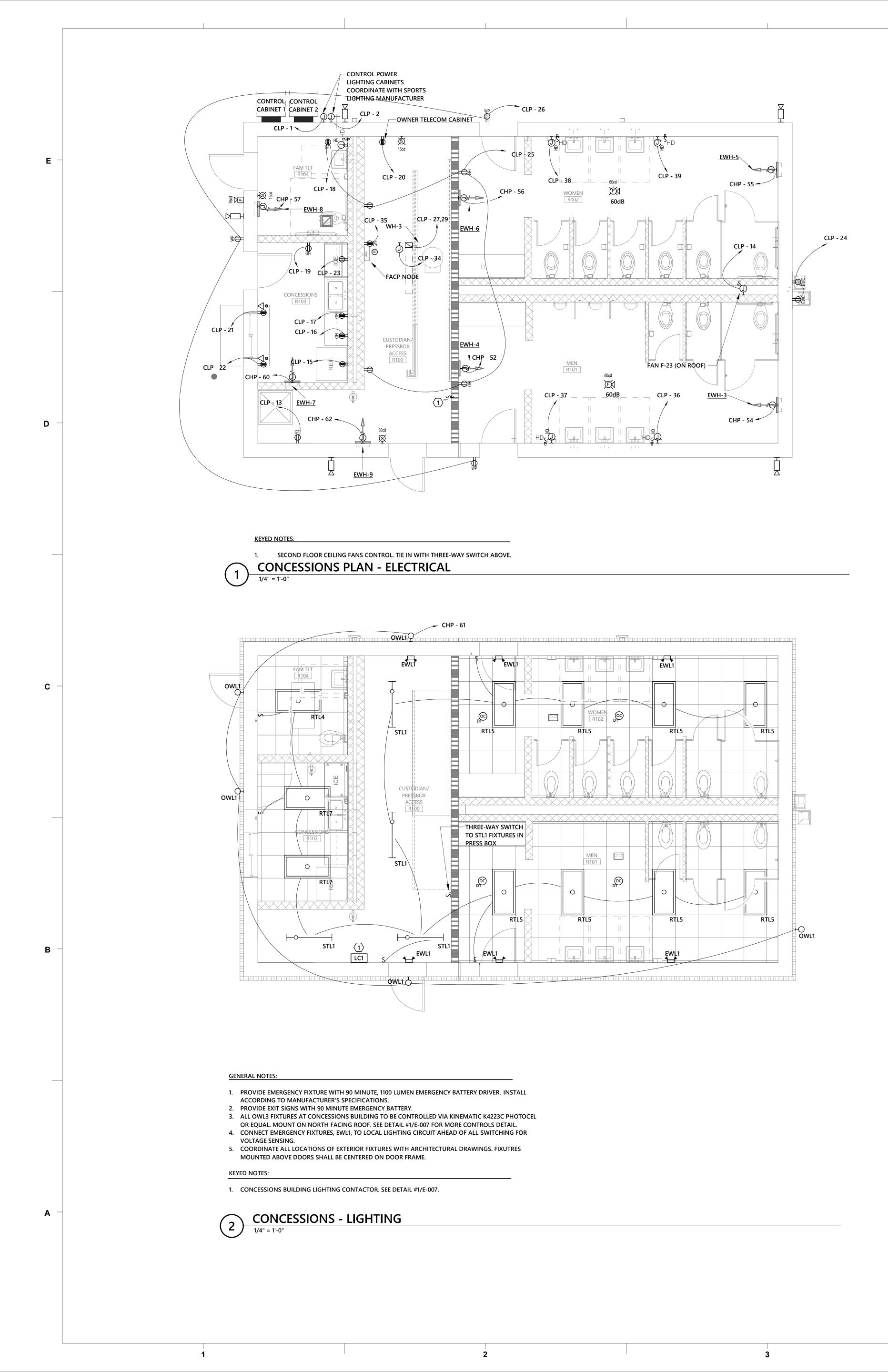
**KEYED NOTES:** 1. PROVIDE FLUSH MOUNTED DOUBLE GANG JUNCTION BOX, PULL STRING AND 1" CONDUIT TO HOOD FOR HOOD PULL STATION(BY OTHERS).

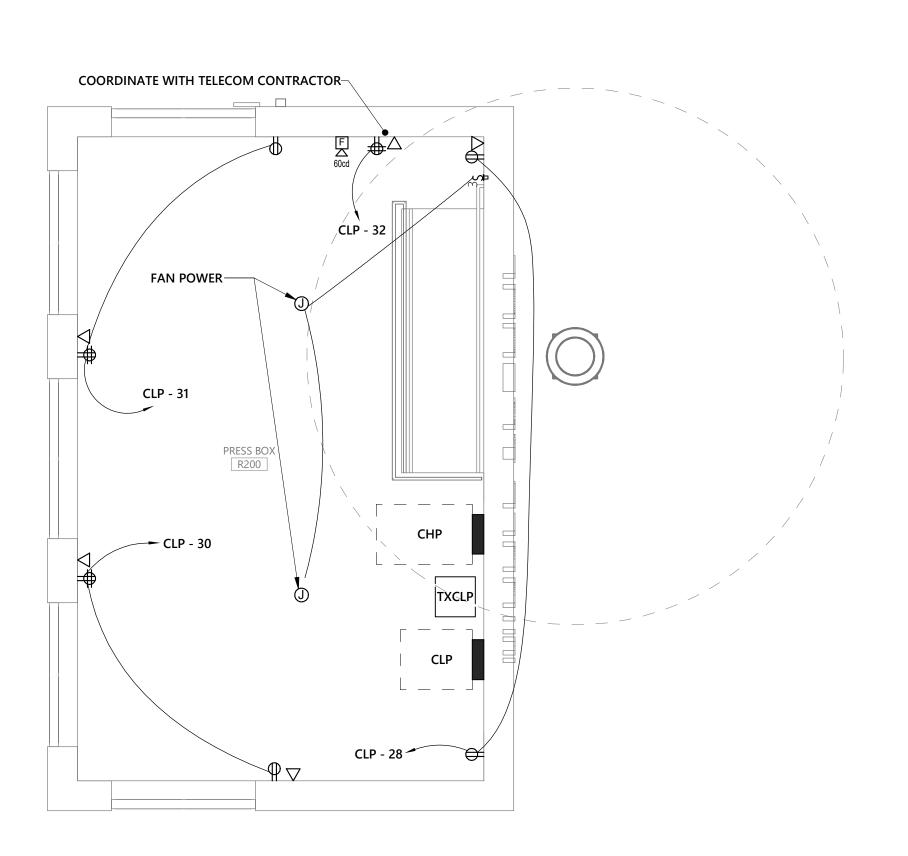


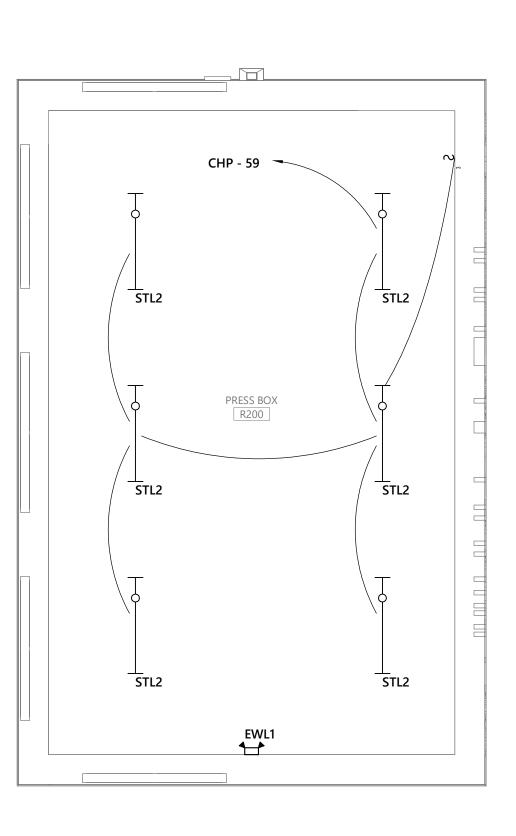
3

# ENLARGED PLAN - KITCHEN









GENERAL NOTES: VOLTAGE SENSING.



4

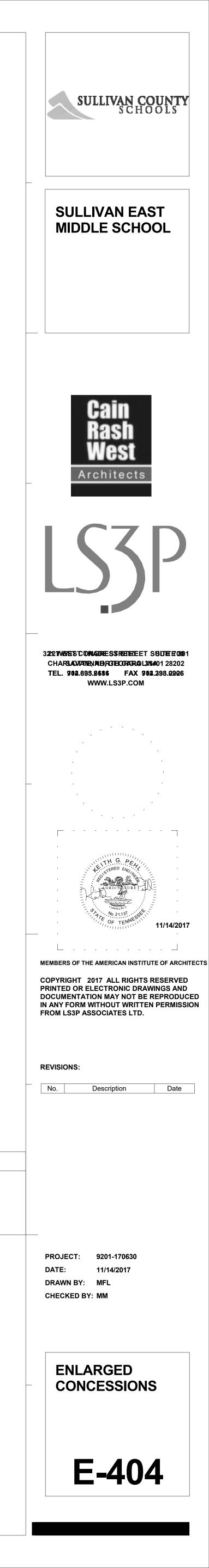
# 3 SECOND FLOOR CONCESSIONS POWER AND SYTEMS

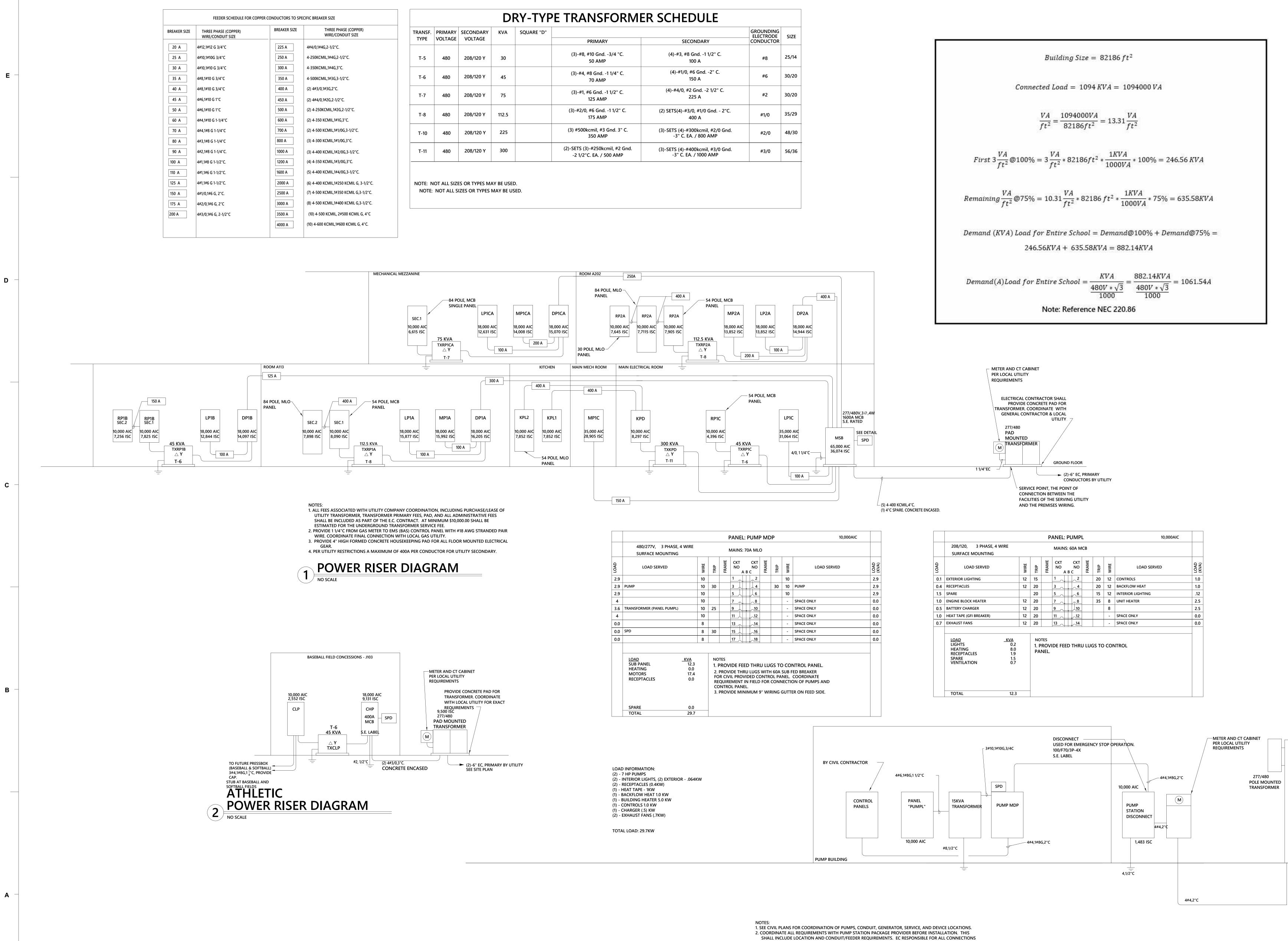
PARTITION	LEGEND
1 HOUR RATED	
2 HOUR RATED	
SMOKE WALL	

6

1. CONNECT EMERGENCY FIXTURES, EWL1, TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING FOR

# 4 SECOND FLOOR CONCESSIONS LIGHTING





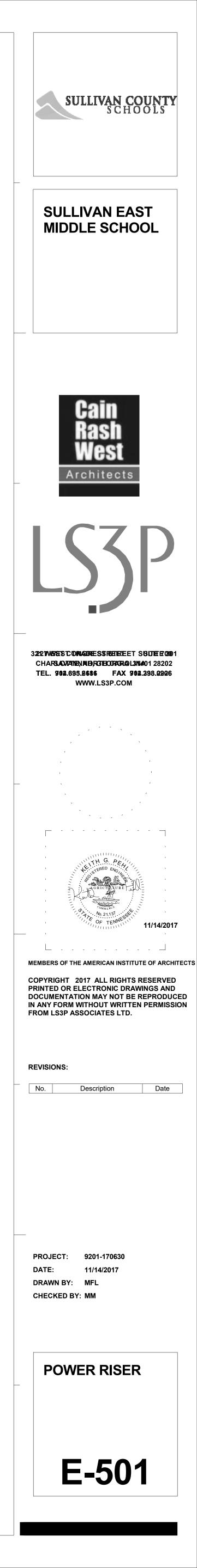
TRANSF.	PRIMARY	SECONDARY	KVA S	SQUARE "D"			GROUNDING	SIZE
TYPE	VOLTAGE	VOLTAGE			PRIMARY	SECONDARY	CONDUCTOR	5IZE
T-5	480	208/120 Y	30		(3)-#8, #10 Gnd3/4 "C. 50 AMP	(4)-#3, #8 Gnd1 1/2" C. 100 A	#8	25/14
T-6	480	208/120 Y	45		(3)-#4, #8 Gnd1 1/4" C. 70 AMP	(4)-#1/0, #6 Gnd2" C. 150 A	#6	30/20
T-7	480	208/120 Y	75		(3)-#1, #6 Gnd1 1/2" C. 125 AMP	(4)-#4/0, #2 Gnd2 1/2" C. 225 A	#2	30/20
T-8	480	208/120 Y	112.5		(3)-#2/0, #6 Gnd1 1/2" C. 175 AMP	(2) SETS(4)-#3/0, #1/0 Gnd 2"C. 400 A	#1/0	35/29
T-10	480	208/120 Y	225		(3) #500kcmil, #3 Gnd. 3" C. 350 AMP	(3)-SETS (4)-#300kcmil, #2/0 Gnd. -3" C. EA. / 800 AMP	#2/0	48/30
T-11	480	208/120 Y	300		(2)-SETS (3)-#250kcmil, #2 Gnd. -2 1/2"C. EA. / 500 AMP	(3)-SETS (4)-#400kcmil, #3/0 Gnd. -3" C. EA. / 1000 AMP	#3/0	56/36

				I	PANEL	PUN	1P N	IDP		10,000
	480/277V, 3 PHASE, 4 WIRE SURFACE MOUNTING			l	MAINS:	70A M	LO			_
LOAD	LOAD SERVED	WIRE	TRIP	FRAME	CKT NO A	CK NC B C		TRIP	WIRE	LOAD SERVED
2.9		10			1		!		10	
2.9	PUMP	10	30		3		L .	30	10	PUMP
2.9		10			5	L L			10	
4		10			7	٩			-	SPACE ONLY
3.6	TRANSFORMER (PANEL PUMPL)	10	25		9		)		-	SPACE ONLY
4		10			11	12	2		-	SPACE ONLY
0.0		8			13	1.	t I		-	SPACE ONLY
0.0	SPD	8	30		15	1(	5		-	SPACE ONLY
0.0		8			17	18	3		-	SPACE ONLY
	LOAD KVA SUB PANEL 12.3 HEATING 0.0 MOTORS 17.4 RECEPTACLES 0.0	NOTES 1. PROVIDE FEED THRU LUGS TO CONTROL PANEL. 2. PROVIDE THRU LUGS WITH 60A SUB FED BREAKER FOR CIVIL PROVIDED CONTROL PANEL. COORDINATE REQUIREMENT IN FIELD FOR CONNECTION OF PUMPS AND CONTROL PANEL. 3. PROVIDE MINIMUM 9" WIRING GUTTER ON FEED SIDE.								
	SPARE 0.0									

LOAD INFORMATION: (2) - 7 HP PUMPS (2) - INTERIOR LIGHTS, (2) EXTERIOR064KW (2) - RECEPTACLES (0.4KW) (1) - HEAT TAPE - 1KW (1) - BACKFLOW HEAT 1.0 KW (1) - BUILDING HEATER 5.0 KW (1) - CONTROLS 1.0 KW	BY CIVIL CONTRACTO
<ul> <li>(1) CHARGER (.5) KW</li> <li>(2) - EXHAUST FANS (.7KW)</li> <li>TOTAL LOAD: 29.7KW</li> </ul>	PANE
	PUMP BUILDING

FROM PANEL TO LOAD. PROVIDE BRANCH CIRCUITS, INSTALLATION, ETC. FOR AT MINIMUM EXTERIOR LIGHTING, INTERIOR RECEPTACLES, CONTROLS, BACKFLOW HEAT, EXHAUST FANS < INTERIOR LIGHTING, AND

UNIT HEATER.



Maria	DECOUDTION	lama	\\/_++				-	Domostra	LCP S	SCHI	EDL	JLF	
e Mark	DESCRIPTION	Lamp	Wattage	Driver	Voltage	Manufacturer	Model	Remarks	RELAY # PANEL DESIGNATION/	VOLTAGE/PHASE			NOTES
		LED	20W	INTEGRAL LED DRIVERS (2)	UNIV	KENALL	MS11FL PP CC 20L40K SCC 277 FS	4000K	DESCRIPTION	VOLTAGL/FITASL	FUNCTION		
						LUMINAIRE BROWNLEE	SWP1212LEDHO 7155 WH B12LED 40K	1300 LUMEN COLOR CHOSEN BY ARCHITECT	1 LP1A-4 / EXTERIOR WALL PACKS	277/1	ON/OFF	LED	1,2,4
	SURFACE MOUNTED LED CANOPY LIGHT					LUMUX	WSS40-LED-40K277-CC-FS-IBP	4" DEEP X 12" SQUARE	2 LP1A-5 / EXTERIOR CANOPY	277/1	ON/OFF	LED	1,2,4
								CONDUIT SHALL PENETRATE FROM THE TOP OF THE CANOPY UL LISTED WET LOCATION	3 LP1A-1/1ST FLOOR AREA A AND B CORR.	,.	ON/OFF	LED	1
		LED	12W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	GOTHAM PATHWAY	EVO 14 6AR LS MVOLT 6VLED 1500		4 LP1A-1 / MAIN CORRIDOR A100	277/1	ON/OFF	LED	1
	6" RECESSED LED DOWNLIGHT			-,		JUNO COOPER	INDY L6 13 35 U G2 L600P LD6A 15 1500D010TE ERM6A15 8 35 6LM0 LI		5 LP1CA-1 / CORRIDOR C100	277/1	ON/OFF	LED	
						SPECTRUM	SGE6LEDGI 20W 35K MD		6 LP1C-3 / GYM 7 LP1C-4 / GYM	277/1	ON/OFF ON/OFF	LED	
	LED EXIT AND EMERGENCY LIGHT COMBO	LED	3.5W	INTEGRAL LED DRIVER	UNIV	LITHONIA HUBBELL	ELM2 LED HO APPROVED EQUAL		8 LPIC-5 / GYM	277/1	ON/OFF	LED	1
		LED	1W	INTEGRAL LED DRIVER	UNIV	JUNO LITHONA	APPROVED EQUAL OUANTUM LOM S W R 120/277 EL N	NICKEL CADMIUM BATTERY EXIT SIGN	9 LP1C-1 / DINING C140	277/1	ON/OFF	LED	1
	BATTERY THERMOPLASTIC LED EXIT SIGN					HUBBELL JUNO	DUAL LITE LX U R W E NAVILLITE NXPBA R WH	90 MINUTE OPERATION; RED TEST SWITCH PROVIDED	10 LP1C-1 / LEARNING COMMONS C103	277/1	ON/OFF	LED	1
	DATTERT MERINOPERSTIC LED EAT SIGN					COOPER	SURE-LITES LPX 7	UL LISTED FOR DAMP LOCATIONS	11 LP2B-1/2ND FLOOR AREAS AND B CORR.	277/1	ON/OFF	LED	1
		LED	3.5W	INTEGRAL LED DRIVER	UNIV	PHILIPS LITHONIA	CHLORIDE VE ECR LED HO M6	NICKEL CADMIUM BATTERY EXIT SIGN	12 SPARE				
	LED EXIT AND EMERGENCY LIGHT COMBO					HUBBELL JUNO	APPROVED EQUAL APPROVED EQUAL	90 MINUTE OPERATION, RED TEST SWITCH PROVIDED	13 SPARE				
			14004			COOPER	APPROVED EQUAL	UL LISTED FOR DAMP LOCATIONS					
			142W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	LITHONIA WILLIAMS	IBH 18000LM SD080 MD MVOLT GZ10 40K 80 CRI GLR	DIFFUSING ACRYLIC					
	LED LOW BAY (LOW PROFILE)					CORONET COOPER	LLHV 4 40 V W ST E U CP HBA LED 4FT 30000 UNV FL	4000K WIRE GUARD					
							HBLED	30,000 LUMENS AIRCRAFT CABLE FOR SAFETY AND CONDUIT STEM, PROVIDE UNISTRUT					
			1004/		116107			BETWEEN STRUCTURAL BRACING					
			160W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	CREE COOPER	CXB A UV M 40K 8 UL 10V APPROVED EQUAL	SURFACE MOUNT BRACKET DIFFUSING ACRYLIC					
	LED ROUND HIGH BAY					CORONET	APPROVED EQUAL	4000K WIRE GUARD					
								30,000 LUMENS AIRCRAFT CABLE FOR SAFETY AND CONDUIT STEM, PROVIDE UNISTRUT					
								BETWEEN STRUCTURAL BRACING					
		2-MODULE LED	47W	INTEGRAL LED DRIVERS (2)	UNIV	LITHONIA HUBBELL	WST LED 2 700 mA SR2 MVOLT TRPC-13LU 5K BZ	COLOR CHOSEN BY ARCHITECT LS 101 EMERGENCY COMPLIANT					
	WALL PACK TRAPEZOID LED					JUNO COOPER	DT A032 MCGRAW IST B02 LED E1 GZW	7"HX16"WX9"D 3900 LUMENS					
						PHILLIPS	GARDCO 101L-DCC-2-55LA NW-UNV-OC	(WIDE ANGLE) SEALED 90 MINUTE BATTERY	REMARKS:				
		LED	31W	INTEGRAL LED DRIVER (STANDARD 0-10V	UNIV	LITHONIA	2GTL 4 40L EZ1 LP840	4000K	<ol> <li>PROGRAM NORMAL ON/OFF, COORDINA</li> <li>LIGHTING FIXTURES WITH EMERGENCY BA</li> </ol>	ATTERY PACKS AND			1TH A
	2X4 LED LAY-IN TROFFER			DIMMING)		WILLIAMS CORONET	APPROVED EQUAL APPROVED EQUAL	4000 MINIMUM LUMENS UL LISTED DAMP LOCATIONS	CONSTANT UNSWITCHED HOT LEG OF CIRCUIT. 3. BLINK FLASH ALERT SIGNAL, LOCAL LOW	<b>VOLTAGE SWITCH S</b>			
			21\\\/	INTEGRAL STEP-LEVEL DIMMING DRIVER	UNIV	COOPER LITHONIA	2GTL 4 40L SLD LP840	PROVIDE FLANGE KIT FOR GYP BOARD APPLICATIONS 0/50/100% STEP DIMMING	<ol> <li>OL - OUTSIDE LIGHT: ASTRONOMICAL CLO</li> <li>PROVIDE A UL LISTED BARRIER TO SEPARA</li> </ol>				
			5100	INTEGRAL STEP-LEVEL DIMINING DRIVER	UNIV	WILLIAMS	APPROVED EQUAL	4000K					
	2X4 LED LAY-IN TROFFER					CORONET COOPER	APPROVED EQUAL	4000 MINIMUM LUMENS UL LISTED DAMP LOCATIONS					
		LED	38W	INTEGRAL LED DRIVER (STANDARD 0-10V	UNIV	LITHONIA	2GTL 4 48L EZ1 LP840	PROVIDE FLANGE KIT FOR GYP BOARD APPLICATIONS 4000K					
	2X4 LED LAY-IN TROFFER			DIMMING)		WILLIAMS CORONET	APPROVED EQUAL APPROVED EQUAL	4800 MINIMUM LUMENS UL LISTED DAMP LOCATIONS					
						COOPER		PROVIDE FLANGE KIT FOR GYP BOARD APPLICATIONS	LIGHTING SEQUENC		PFRATI	ON	
	2X4 LED LAY-IN TROFFER	LED	38W	INTEGRAL STEP-LEVEL DIMMING DRIVER	UNIV	LITHONIA WILLIAMS	2GTL 4 48L SLD LP840 APPROVED EQUAL	4000K 4800 MINIMUM LUMENS	A COMPLETE AND OPERATIONAL LIGHTING COM	NTROL SYSTEM SHA	ALL BE INSTALLED	IN ACCORDANCE W	ITH THE SPECIFICATIONS (SECTION 260923) AND AS INTENDE
						CORONET COOPER	APPROVED EQUAL	UL LISTED DAMP LOCATIONS PROVIDE FLANGE KIT FOR GYP BOARD APPLICATIONS	REQUIREMENTS LISTED HERE, THE QUESTION SE				RED IN ADDITION TO THOSE LISTED HERE. IN THE EVENT THA GENT SHALL APPLY.
		LED	48W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	LITHONIA WILLIAMS	2GTL 4 60L EZ1 LP840 APPROVED EQUAL	4000K 5800 MINIMUM LUMENS					
	2X4 LED LAY-IN TROFFER			Dimining)		CORONET	APPROVED EQUAL APPROVED EQUAL	UL LISTED DAMP LOCATIONS					
		LED	48W	INTEGRAL STEP-LEVEL DIMMING DRIVER	UNIV	COOPER LITHONIA	2GTL 4 60L SLD LP840	PROVIDE FLANGE KIT FOR GYP BOARD APPLICATIONS 0/50/100% STEP DIMMING	SYSTEM DESCRIPTION: LIGHTING CONTROLS AR BASED ON FREE TOP		ITROIS SHALL BE	INTEGRATED WITH	TIME SCHEDULES: A. TIME SCHEDULES ARE TO BE DETERMINED BY
						WILLIAMS CORONET	APPROVED EQUAL APPROVED EQUAL	4000K 5800 MINIMUM LUMENS	THE BAS SYSTEM. INDEPENDENT OF THE LIG MOUNTED SENSORS. THESE SHALL BE INDE	GHTING CONTROLS	SYSTEM ARE WA	ALL AND CEILING	DIRECTED BY OWNER AND INPUT BY THE LIC
	2X4 LED LAY-IN TROFFER					COOPER	APPROVED EQUAL	UL LISTED DAMP LOCATIONS	AUTOMATION SYSTEM (BAS) SOFTWARE. ( MECHANICAL CONTRACTOR)	NOTE: BAS IS PROV	IDED AND INSTA	LLED BY THE	INDIVIDUAL AREAS INTENT OF CONTROL: - GROUP RESTROOMS: TIME SCHEDULE ZONED
								STEP DIMMING PROVIDE FLANGE KIT FOR GYP BOARD APPLICATION	OCCUPANCY SENSORS				SHALL SUPPLEMENT THIS AREA VIA WALL M BACK-UP. MANUAL LOW VOLTAGE OVERRID
		LED	53W	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	UNIV	LITHONIA WILLIAMS	2GTL 4 72L EZ1 LP840 APPROVED EQUAL	4000K 7000 MINIMUM LUMENS	1. CEILING MOUNTED OCCUPANCY SENSORS S SYSTEM. 2. ALL OCCUPANCY SENSORS SHALL BE PROGF				LOCKED OUT DURING "NORMAL OPERATING - CORRIDORS/HALLWAYS: TIME SCHEDULE ZON AREA VIA WALL MOUNTED EMERGENCY LIG
	2X4 LED LAY-IN TROFFER					COOPER	APPROVED EQUAL	UL LISTED DAMP LOCATIONS PROVIDE FLANGE KIT FOR GYP BOARD APPLICATION	AUTOMATIC OFF. ALL VACANCY SENSORS AND AUTOMATIC OFF.				
		LED	53W	INTEGRAL STEP-LEVEL DIMMING DRIVER	UNIV		2GTL 4 72L SLD LP840	0/50/100% STEP DIMMING	TIMER SETTINGS :				- MAIN CORRIDOR: TIME SCHEDULE ZONED. EN WALL MOUNTED EMERGENCY LIGHTS POWE
	2X4 LED LAY-IN TROFFER					WILLIAMS COOPER	APPROVED EQUAL APPROVED EQUAL	4000K 7000 MINIMUM LUMENS	A. WALL SWITCH PASSIVE INFRARED: 2 MINUT B. CLASSROOMS OCCUPANCY: 15 MINS.		L RESTROOMS A	ND STORAGE ROOM	5. OVERRIDE IN RECEPTION. - INDIVIDUAL RESTROOMS: ON/OFF WALL SWIT
								UL LISTED DAMP LOCATIONS STEP DIMMING	C. WALL SWITCH OCCUPANCY SENSORS OFFIC D. WALL SWITCH OCCUPANCY SENSORS CONF				<ul> <li>ELECTRICAL ROOMS, BOILER ROOMS, ETC.: MA</li> <li>STORAGE ROOMS: ON/OFF WALL SWITCH VAO THE TIME MANAGEMENT.</li> </ul>
			14W/	INTEGRAL LED DRIVER	UNIV	GOTHAM	EVO 14 6AR LS MVOLT	PROVIDE FLANGE KIT FOR GYP BOARD APPLICATION UL LISTED FOR WET LOCATIONS	BAS INTEGRATION : A. EXTERIOR LIGHTING ZONE, TIME SCHEDULE		IFS		THE TIME MANAGEMENT. - OFFICES/WORKROOMS: STEP DIMMING, 0/509 INTEGRAL VACANCY SENSORS. NOT TIED IN
						PATHWAY	6VLED 1500		B. INTERIOR LIGHTING ZONE, TIME SCHEDOLE - UNDERCOUNTER LIGHTING ZONE.				- SMALL STORAGE/UTILITY ROOMS: ON/OFF W/ NOT TIED INTO THE TIME MANAGEMENT.
	6" RECESSED LED SHOWER DOWNLIGHT					JUNO COOPER	INDY L6 13 35 U G2 L600P LD6A 15 1500D010TE ERM6A15 8 35 6LM0 LI		- CORRIDORS - MAIN CORRIDOR				- EXTERIOR PARKING LOT LIGHTING:ON/OFF M/ - EXTERIOR CANOPY LIGHTING:ON/OFF MANUA
		LED	40W	INTEGRAL STEP-LEVEL DIMMING DRIVER	UNIV	SPECTRUM LITHONIA	SGE6LEDGI 20W 35K MD 2VTL4 48L ADP SLD LP840	0/50/100% STEP DIMMING	- GYM - GROUP RESTROOMS				CONTROL. - EXTERIOR WALL PACKS: ON/OFF MANUAL SW
	2X4 VOLUMETRIC LED TROFFER 0-10V DIMMING					COLUMBIA	APPROVED EQUAL APPROVED EQUAL	MINIMUM 4800 LUMENS	- DINING - LEARNING COMMONS				CONTROL. -CLASSROOMS: (1) SINGLE POLE SWITCH AND (1 ZONE 1: TEACHING WALL ZONE (0N/OEE)
						COOPER	-		- STAIRWELLS				ZONE 1: TEACHING WALL ZONE (ON/OFF) ZONE 2: CLASSROOM ZONE (INBOARD/OUTBO/ - DINING: ALL FIXTURES ON/OFF VIA LOW VOLT
	2X4 VOLUMETRIC LED TROFFER	LED	44W	INTEGRAL 0-10V DIMMING DRIVER	UNIV	LITHONIA COLUMBIA	2VTL4 60L ADP EZ1 LP840 APPROVED EQUAL	0-10V DIMMING MINIMUM 6000 LUMENS	COMMISSIONING AND COORDINATION OF BA	<u>AS</u> :			LIGHTING SYSTEM NOTES:
	0-10V DIMMING	I FD	44W	INTEGRAL STEP-LEVEL DIMMING DRIVER	UNIV	COOPER LITHONIA	APPROVED EQUAL 2VTL4 60L ADP SLD LP840	4000K 0/50/100% STEP DIMMING	1. BAS CONTROL SHALL BE THE PRIORITY SYST 2. LIGHTING SYSTEM SHALL ALSO BE INDEPEN	'em. Idently controll			1. SYSTEM ARCHITECTURE SHALL BE DESIGNED PROVIDED WITH 25% ADDITIONAL CAPACIT
	2X4 VOLUMETRIC LED TROFFER		<del>44</del> VV	INTEGRAL STEP-LEVEL DIMIMING DRIVER		LITHONIA COLUMBIA	APPROVED EQUAL	MINIMUM 6000 LUMENS	3. LIGHTING SYSTEM IS CONNECTED TO THE B LANGUAGE REQUIREMENTS WITH MECHAN	SAS VIA BACNET PR	OTOCOL OR EQU	AL. COORDINATE	
	0-10V DIMMING					 COOPER	APPROVED EQUAL	4000K					
	2X4 VOLUMETRIC LED TROFFER	LED	72W	INTEGRAL STEP-LEVEL DIMMING DRIVER	UNIV	LITHONIA COLUMBIA	2VTL4 72L ADP SLD LP840 APPROVED EQUAL	0/50/100% STEP DIMMING MINIMUM 7200 LUMENS	LIGHTING COORDINATION AND QUALITY CON 1. ELECTRICAL CONTRACTOR SHALL HAVE A PF PPLOP TO CONDULT POLICIES IN TO VERIEX	<b>RE-CONSTRUCTION</b>			
	0-10V DIMMING						APPROVED EQUAL	4000K	PRIOR TO CONDUIT ROUGH-IN TO VERIFY I CONTROL STRATEGY FOR INSTALLATION. 2. ELECTRICAL CONTRACTOR SHALL HAVE A PO				
		LED	42W	INTEGRAL LED DRIVER	UNIV	COOPER LITHONIA	VAP 4000 FST MD MVOLT GZ10 40K 80CRI	WET LOCATION LABEL	IDENTIFY LINE AND LOW VOLTAGE ROUTIN CONSTRUCTION STRATEGIES.				
	ANDAL RESISTANT OUTDOOR LED STRIP LIGHT					WILLIAMS COOPER	96 LED FAIL SAFE	4000+ LUMENS SURFACE MOUNT WITH BRACKETS					
V	ANDAL RESISTANT OUTDOOK LED STRIP LIGHT												

LIGHTING FIXTURE SCHEDULE NOTES:

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1. LAMPS BASED ON OSRAM/SYLVANIA UNLESS OTHERWISE NOTED. ALL DIODES SHALL BE 4000K ULESS OTHERWISE SPECIFIED. SUBMITTAL SHEETS SHALL BE SUBMITTALS. DRIVER AND DIODE BOARD WARRANTY SHALL BE COMPLETED BY CONTRACTOR AND TURNED OVER TO OWNER AT THE END OF PROJECT. 2. LED DRIVERS SHALL BE PROVIDED FROM MANUFACTURERE RECOMMENDATIN. AS PART OF THIS RECOMMENDATION COORDINATE THE REQUIRED WAVE OUTPUT SO THEY ARE COMPATIBLE. THIS INCLUDES EMERGENCY DRIVERS. 3. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS.

4. FIXTURES SHALL BE FIRE RATED.

5. PROVIDE LOW-TEMP (0 DEGREES F MINIMUM DRIVERS FOR ALL FIXTURES INSTALLED IN EXTERIOR LOCATIONS OR OTHER AREAS SUBJECT TO COLD WEATHER. 6. SUSPEND ALL FOUR CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.

7. FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SUPPLIED WITH 1100 LUMEN INVERTERS. 8. PROVIDE INTEGRAL SURGE PROTECTION ON ALL EXTERIOR LED DRIVER FIXTURE TYPES.

9. DIMMING OF FIXTURES SHALL BE WITH A SWITCH AS RECOMMENDED BY DDRIVER MANUFACTURER.

10. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE.

11. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY /SCHEDULING ISSUES. 12. NO SUBSTITUTIONS WILL BE ALLOWED DUE TO LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.

13. ALL EXPIDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. FIXTURES TO BE INSTALLED IN CEILINGS, INDICATED ON ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH CEILING SURFACE, SHALL BE IC RATED BY MANUFACTURER.

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15. LED DRIVERS LOCATED IN UNCONDITIONED SPACES SHALL BE RATED FOR 90 DEGREES F. 16. WALL MOUNTED EMERGENCY LIGHTS SHALL BE SUPPLIED WITH 90-MINUTE BATTERY BACK UP. EMERGENCY BACK UP SHALL BE BASED ON TYPE OF FIXTURE. EMERGENCY BACKUP SHALL BE DUAL INPUT FOR BOTH SWITCHING AND CHARGING. PROVIDE UNSWITCHED "HOT" FROM LOCAL CIRCUIT UNLESS OTHERWISE INDICATED ON PLANS FOR

VOLTAGE SENSING. PROVIDE WITH INDICATOR LIGHT. INSTALL INDICATOR LIGHT ON FIXUTRE. 17. POLES PROVIDED FOR LED FIXTURES SHALL BE METAL, REGARDLESS OF SPECIFICATION FOR GROUNDING PURPOSES.

TIONS (SECTION 260923) AND AS INTENDED ON THESE PLANS. ALL CONTROL POINTS AND THOSE LISTED HERE. IN THE EVENT THAT THE VERBIAGE IS IN CONFLICT OR CONTRADICTS THE

A. EXTERIOR LIGHTING CONTROL IS VIA SCHEDULED TIME CONTROL. B. EXTERIOR LIGHTING IS BROKEN UP INTO (3) SCHEDULED ZONES:

1. WALL PACKS 2. CANOPY LIGHTS 3. SIGNAGE

EMERGENCY LIGHTING CONTROL: A. EXTERIOR LIGHTING IS VIA SCHEDULED TIME CONTROL. B. EXTERIOR EMERGENCY LIGHTING IS VIA BATTERY BACK-UP.

C. MULTIPLE FIXTURES ARE USED TO MEET REQUIRED EGRESS PATH ILLUMINATION. D. INDIVIDUAL BATTERY BACK-UP IS USED.

E. INTERIOR EMERGENCY LIGHTING IS VIA 90-MINUTE, 1100 LUMEN MINIMUM, BATTERY BACK-UP. F. INTERIOR AND EXTERIOR EMERGENCY LIGHTING IS VIA EMERGENCY WALL PACKS, UPON LOSS OF

NORMAL POWER FIXTURE WILL TRANSFER TO INTERNAL BATTERY SOURCE. G. MULTIPLE FIXTURES OR LISTED FIXTURES ARE USED TO MEET REQUIRED EGRESS PATH ILLUMINATION.

E SCHEDULES ARE TO BE DETERMINED BY THE OWNER. THIS SHALL BE COORDINATED AND RECTED BY OWNER AND INPUT BY THE LIGHTING PROGRAMMER AND THE BAS PROGRAMMER.

- IDUAL AREAS INTENT OF CONTROL: DUP RESTROOMS: TIME SCHEDULE ZONED WITH CORRIDOR CONTROL. EMERGENCY LIGHTING ALL SUPPLEMENT THIS AREA VIA WALL MOUNTED EMERGENCY LIGHTS POWERED VIA BATTERY CK-UP. MANUAL LOW VOLTAGE OVERRIDE IN LOCAL CORRIDOR. CORRIDOR SWITCHES SHALL BE CKED OUT DURING "NORMAL OPERATING HOURS."
- RIDORS/HALLWAYS: TIME SCHEDULE ZONED. EMERGENCY LIGHTING SHALL SUPPLEMENT THIS EA VIA WALL MOUNTED EMERGENCY LIGHTS POWERED VIA BATTERY BACK-UP. MANUAL LOW DLTAGE OVERRIDE IN LOCAL CORRIDOR. CORRIDOR SWITCHES SHALL BE LOCKED OUT (PUBLIC
- EAS) DURING "NORMAL OPERATING HOURS." N CORRIDOR: TIME SCHEDULE ZONED. EMERGENCY LIGHTING SHALL SUPPLEMENT THIS AREA VIA LL MOUNTED EMERGENCY LIGHTS POWERED VIA BATTERY BACK-UP. MANUAL LOW VOLTAGE ERRIDE IN RECEPTION.
- IVIDUAL RESTROOMS: ON/OFF WALL SWITCH OCCUPANCY SENSORS (PASSIVE INFRARED.) TRICAL ROOMS, BOILER ROOMS, ETC.: MANUAL ON/OFF SWITCH ONLY FOR PERSONNEL SAFETY. PRAGE ROOMS: ON/OFF WALL SWITCH VACANCY SENSORS (PASSIVE INFRARED.) NOT TIED INTO E TIME MANAGEMENT. ICES/WORKROOMS: STEP DIMMING, 0/50%/100% TYPICALLY VIA ON/OFF SWITCHES WITH
- TEGRAL VACANCY SENSORS. NOT TIED INTO THE TIME MANAGEMENT. L STORAGE/UTILITY ROOMS: ON/OFF WALL SWITCH VACANCY SENSORS (PASSIVE INFRARED.) T TIED INTO THE TIME MANAGEMENT.
- ERIOR PARKING LOT LIGHTING:ON/OFF MANUAL SWITCH AND TIME SCHEDULE CONTROL. ERIOR CANOPY LIGHTING:ON/OFF MANUAL SWITCH AT RECEPTION DESK AND TIME SCHEDULE INTROL ERIOR WALL PACKS: ON/OFF MANUAL SWITCH AT RECEPTION DESK AND TIME SCHEDULE

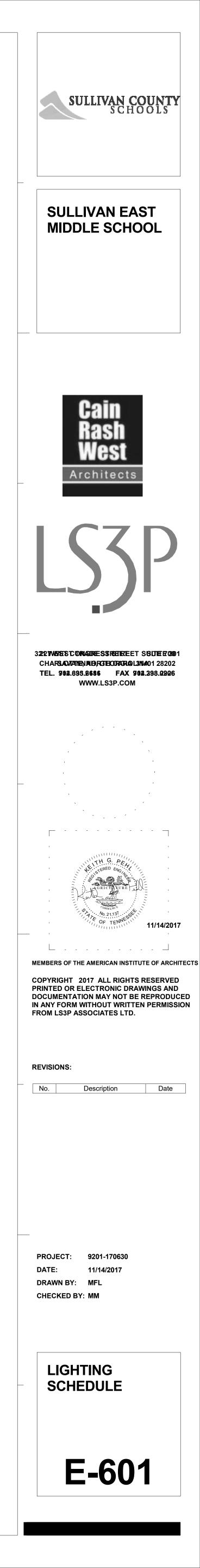
NTROL SROOMS: (1) SINGLE POLE SWITCH AND (1) DOUBLE SWITCH FOR (2) ZONES OF SWITCHING: 1: TEACHING WALL ZONE (ON/OFF) 2: CLASSROOM ZONE (INBOARD/OUTBOARD/OFF) ING: ALL FIXTURES ON/OFF VIA LOW VOLTAGE SWITCH, TIME CONTROL.

ING SYSTEM NOTES: STEM ARCHITECTURE SHALL BE DESIGNED BY RESPECTIVE CONTROLS PROVIDER. SYSTEM SHALL BE

FIXTURE NOTES (ADDITIONAL, ALL DEVICES AND INSTALLATION BELOW SHALL NOT BE SUPPLIED OR INSTALLED UNTIL DIRECTION FROM OWNER OR ENGINEER. THE BELOW SHALL BE PART OF THE BASE BID): A. E.C. TO PROVIDE (5) ADDITIONAL TYPE 'RTL4' FIXTURES AND INSTALLATION OF UP TO 100' (EACH FIXTURE) FROM LOCAL PANEL. B. E.C. TO PROVIDE (5) ADDITIONAL "DL1" FIXTURES AND INSTALLATION OF UP TO 200' (EACH) FROM LOCAL PANEL.

C. E.C. TO PROVIDE (5) ADDITIONAL EXIT SIGNS AND INSTALLATION OF UP TO 100' (EACH EXIT SIGN) FROM LOCAL PANEL.

D. E.C. TO PROVIDE (2) SWITCHES ADDITIONAL AND RE-LOCATE (2) SWITCHES A TOTAL DISTANCE OF 10' (EACH) FROM EXISTING LOCATION POST INSTALLATION AS REQUIRED BY OWNER. E. ARCHITECT TO APPROVE ALL EXTERIOR FIXTURE LOCATIONS. E.C. TO MARK OFF LOCATIONS WITH TEMPORARY "CHALK" OUTLINE AND PLAN FOR ARCHITECT ON-SITE APPROVAL OF LOCATIONS BEFORE INSTALLATION. E.C. TO CONTACT ARCHITECT WITH (1) WEEK PRIOR NOTICE. F. E.C. TO PROVIDE (5) ADDITIONAL POWER PACKS AND INSTALLATION OF UP TO 200' (EACH) FROM LOCAL PANEL. G. E.C. TO PROVIDE (2) ADDITIONAL SWITCHES OF EACH TYPE SPECIFIED FROM PROJECT.



Project Information					
Energy Code:	2012 IECC				
Project Title: Project Type:	New Construction				
Construction Site: 4500 Weaver Pike Bluff City, TN 37618	Owner/Agent: Evelyn Rafalowski Sullivan County Schools 154 Blountville Bypass Blountville, TN 37617 4233541000 evel.rafalowski@sullivank12.net	Charlotte 7043336	llamy rade Street 1. NC 28202		
Additional Efficiency Pac				anno.	
Reduced interior lighting power. R	equirements are implicitly enforced within interior lighti	ng allowance calculat	ions.		
Allowed Interior Lighting	Power				120
	A Area Category	B Floor Area (ft2)	C Allowed Watts / ft		D wed Wa (B X C)
1-SCMS (School/university)	67 1	59149	0.99	00	58558
		To	tal Allowed V	/atts =	58558
Proposed Interior Lighting	g Power				
Fixture ID : Descr	A iption / Lamp / Wattage Per Lamp / Ballast	B Lamps/	C # of	D Fixture	(CXI
	ibriett's camp : trattinge i et camp / painet		Fixtures	Watt.	
1-SCMS (School/university)	prote sump interage i et samp i samot	Fixture	and a	Watt.	
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LED	0 Other Fixture Unit 13W:		Fixtures	13	
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LEI LED 2: HBL1: HIGH BAY LED:	O Other Fixture Unit 13W: LED Other Fixture Unit 125W:		Fixtures 98 17	13 305	518
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LED LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO	0 Other Fixture Unit 13W: LED Other Fixture Unit 125W: FFER: LED Other Fixture Unit 28W:		98 17 150	13	518 465
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LEI LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO LED 4: RTL4A: 2X4 LAY IN TR	O Other Fixture Unit 13W: LED Other Fixture Unit 125W:		Fixtures 98 17	13 305 31	127 518 465 37 76
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LEI LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO LED 4: RTL4A: 2X4 LAY IN TRO LED 5: RTL5: 2X4 LAY IN TRO LED 6: RTL5A: 2X4 LAY IN TRO	O Other Fixture Unit 13W: LED Other Fixture Unit 125W: FFER: LED Other Fixture Unit 28W: OFFER: LED Other Fixture Unit 28W: FFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 36W:		98 17 150 12 20 2	13 305 31 38 38	518 465 37 76
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LEI LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO LED 4: RTL4A: 2X4 LAY IN TRO LED 5: RTL5: 2X4 LAY IN TRO LED 6: RTL5A: 2X4 LAY IN TRO LED 7: RTL6: 2X4 LAY IN TRO	O Other Fixture Unit 13W: LED Other Fixture Unit 125W: FFER: LED Other Fixture Unit 28W: OFFER: LED Other Fixture Unit 28W: FFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 36W: FFER: LED Other Fixture Unit 46W:		98 17 150 12 20 2 171	13 305 31 38 38 48	518 465 37 76 7 820
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LED LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO LED 4: RTL4A: 2X4 LAY IN TRO LED 5: RTL5: 2X4 LAY IN TRO LED 6: RTL5A: 2X4 LAY IN TRO LED 7: RTL6: 2X4 LAY IN TRO LED 8: RTL6A: 2X4 LAY IN TRO	O Other Fixture Unit 13W: LED Other Fixture Unit 125W: FFER: LED Other Fixture Unit 28W: OFFER: LED Other Fixture Unit 28W: FFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 36W: FFER: LED Other Fixture Unit 46W: OFFER: LED Other Fixture Unit 46W:		98 17 150 12 20 2 171 204	13 305 31 38 38 48 48	518 465 37 76 7 820 975
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LED LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO LED 4: RTL4A: 2X4 LAY IN TRO LED 5: RTL5: 2X4 LAY IN TRO LED 6: RTL5A: 2X4 LAY IN TRO LED 7: RTL6: 2X4 LAY IN TRO LED 8: RTL6A: 2X4 LAY IN TRO LED 9: RTL7: 2X4 LAY IN TRO	O Other Fixture Unit 13W: LED Other Fixture Unit 125W: FFER: LED Other Fixture Unit 28W: OFFER: LED Other Fixture Unit 28W: FFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 36W: FFER: LED Other Fixture Unit 46W:		98 17 150 12 20 2 171	13 305 31 38 38 48	518 465 37 74 820 971 144
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LED LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO LED 4: RTL4A: 2X4 LAY IN TRO LED 5: RTL5: 2X4 LAY IN TRO LED 6: RTL5A: 2X4 LAY IN TRO LED 6: RTL6A: 2X4 LAY IN TRO LED 8: RTL6A: 2X4 LAY IN TRO LED 9: RTL7: 2X4 LAY IN TRO LED 9: RTL7: 2X4 LAY IN TRO LED 10: RTL7A: 2X4 LAY IN TRO LED 11: SDL1: DOWNLIGHT: L	O Other Fixture Unit 13W: LED Other Fixture Unit 125W: FFER: LED Other Fixture Unit 28W: OFFER: LED Other Fixture Unit 28W: FFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 46W: OFFER: LED Other Fixture Unit 46W: FFER: LED Other Fixture Unit 46W: ROFFER: LED Other Fixture Unit 50W: ROFFER: LED Other Fixture Unit 50W: ROFFER: LED Other Fixture Unit 50W:		98 17 150 12 20 2 171 204 28	13 305 31 38 38 48 48 53	518 465 37 76 7 820 975 148 116
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LED LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO LED 4: RTL4A: 2X4 LAY IN TRO LED 5: RTL5: 2X4 LAY IN TRO LED 6: RTL5A: 2X4 LAY IN TRO LED 7: RTL6: 2X4 LAY IN TRO LED 8: RTL6A: 2X4 LAY IN TRO LED 9: RTL7: 2X4 LAY IN TRO LED 10: RTL7A: 2X4 LAY IN TRO LED 10: RTL7A: 2X4 LAY IN TRO LED 11: SDL1: DOWNLIGHT: I LED 12: VTL4A: 2X4 LAY IN TR	D Other Fixture Unit 13W: LED Other Fixture Unit 125W: FFER: LED Other Fixture Unit 28W: OFFER: LED Other Fixture Unit 28W: FFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 46W: OFFER: LED Other Fixture Unit 46W: FFER: LED Other Fixture Unit 46W: ROFFER: LED Other Fixture Unit 50W: ROFFER: LED Other Fixture Unit 50W: ED Other Fixture Unit 13W: ROFFER: LED Other Fixture Unit 36W:		98 17 150 12 20 2 171 204 28 22 12 4	13 305 31 38 48 48 53 53 13 33	514 465 37 76 32 820 971 144 114 144 14 14
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LED LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO LED 4: RTL4A: 2X4 LAY IN TRO LED 5: RTL5: 2X4 LAY IN TRO LED 6: RTL5A: 2X4 LAY IN TRO LED 7: RTL6A: 2X4 LAY IN TRO LED 8: RTL6A: 2X4 LAY IN TRO LED 9: RTL7: 2X4 LAY IN TRO LED 10: RTL7A: 2X4 LAY IN TRO LED 10: RTL7A: 2X4 LAY IN TRO LED 11: SDL1: DOWNLIGHT: I LED 12: VTL4A: 2X4 LAY IN TR LED 13: VTL5A: 2X4 LAY IN TR	D Other Fixture Unit 13W: LED Other Fixture Unit 125W: FFER: LED Other Fixture Unit 28W: OFFER: LED Other Fixture Unit 28W: FFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 36W: FFER: LED Other Fixture Unit 46W: OFFER: LED Other Fixture Unit 46W: FFER: LED Other Fixture Unit 46W: ROFFER: LED Other Fixture Unit 50W: ROFFER: LED Other Fixture Unit 50W: ROFFER: LED Other Fixture Unit 36W: ROFFER: LED Other Fixture Unit 36W: ROFFER: LED Other Fixture Unit 36W:		98 17 150 12 20 2 171 204 28 22 12 4 2 2	13 305 31 38 48 48 53 53 13 33 40	518 465 37 76 76 76 76 76 76 76 77 820 975 148 116 15 13 8
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LED LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO LED 4: RTL4A: 2X4 LAY IN TRO LED 5: RTL5: 2X4 LAY IN TRO LED 6: RTL5A: 2X4 LAY IN TRO LED 7: RTL6A: 2X4 LAY IN TRO LED 8: RTL6A: 2X4 LAY IN TRO LED 9: RTL7: 2X4 LAY IN TRO LED 10: RTL7A: 2X4 LAY IN TRO LED 10: RTL7A: 2X4 LAY IN TRO LED 11: SDL1: DOWNLIGHT: I LED 12: VTL4A: 2X4 LAY IN TRO LED 13: VTL5A: 2X4 LAY IN TRO	D Other Fixture Unit 13W: LED Other Fixture Unit 125W: FFER: LED Other Fixture Unit 28W: OFFER: LED Other Fixture Unit 28W: FFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 36W: FFER: LED Other Fixture Unit 46W: OFFER: LED Other Fixture Unit 46W: FFER: LED Other Fixture Unit 50W: ROFFER: LED Other Fixture Unit 50W: ED Other Fixture Unit 13W: ROFFER: LED Other Fixture Unit 36W: ROFFER: LED Other Fixture Unit 36W: ROFFER: LED Other Fixture Unit 36W: ROFFER: LED Other Fixture Unit 46W:		98 17 150 12 20 2 171 204 28 22 12 4 2 8	13 305 31 38 48 48 53 53 13 33	518 465 37
1-SCMS (School/university) LED 1: DL1: DOWNLIGHT: LED LED 2: HBL1: HIGH BAY LED: LED 3: RTL4: 2X4 LAY IN TRO LED 4: RTL4A: 2X4 LAY IN TRO LED 5: RTL5: 2X4 LAY IN TRO LED 6: RTL5A: 2X4 LAY IN TRO LED 7: RTL6: 2X4 LAY IN TRO LED 8: RTL6A: 2X4 LAY IN TRO LED 9: RTL7: 2X4 LAY IN TRO LED 10: RTL7A: 2X4 LAY IN TRO LED 11: SDL1: DOWNLIGHT: I LED 12: VTL4A: 2X4 LAY IN TR LED 13: VTL5A: 2X4 LAY IN TRO	O Other Fixture Unit 13W: LED Other Fixture Unit 125W: FFER: LED Other Fixture Unit 28W: OFFER: LED Other Fixture Unit 28W: OFFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 36W: OFFER: LED Other Fixture Unit 46W: OFFER: LED Other Fixture Unit 46W: ROFFER: LED Other Fixture Unit 50W: ROFFER: LED Other Fixture Unit 50W: ROFFER: LED Other Fixture Unit 50W: ROFFER: LED Other Fixture Unit 36W: ROFFER: LED Other Fixture Unit 36W: ROFFER: LED Other Fixture Unit 46W: ROFFER: LED Other Fixture Unit 46W: ROFFER: LED Other Fixture Unit 46W:		98 17 150 12 20 2 171 204 28 22 12 4 2 2	13 305 31 38 48 48 53 53 13 33 40 44	518 465 37 76 820 975 148 116 15 13 35

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Interior Lighting PASSES: Design 40% better than code	3
Interior Lighting Compliance Statement	
Compliance Statement: The proposed interior lighting design represente specifications, and other calculations submitted with this permit applicat designed to meet the 2012 IECC requirements in COMcheck Version 4.0.3 requirements listed in the Inspection Checklist.	on. The proposed interior lighting systems have been
Matt Lewis - Electrical Designer	
Name - Title Signature	Date

Project Title: Data filename: J:\2017\17-0151\Electrical\ComCheck\2017-11-2.cck

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Report date: 11/02/17 Page 2 of 8

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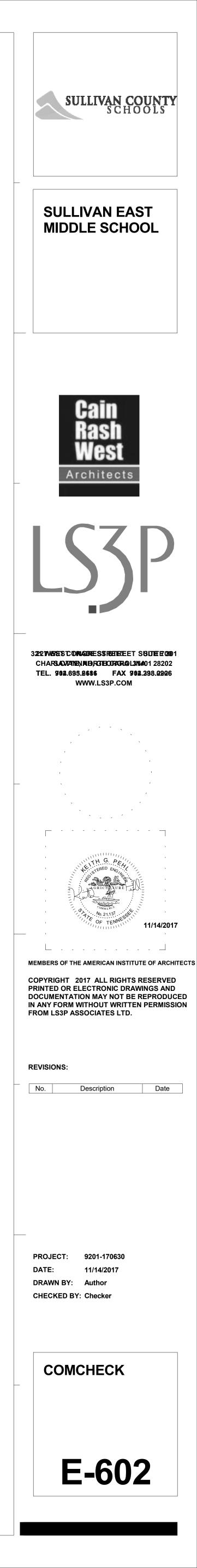
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Project Information						
Energy Code:	2012 IECC					
Project Title:						
Project Type: Exterior Lighting Zone	New Construction 2 (Residential mixed use	area)				
		10000000				
Construction Site:	Owner/Agent:		Designer/C	ontractor:		
4500 Weaver Pike Bluff City, TN 37618	Evelyn Rafalowski Sullivan County Scl	haals	David Be LS3P	llamy		
bian city, in store	154 Blountville Byp	ass	227 W.Tr	ade Street		
	Blountville, TN 376 4233541000 evel.rafalowski@su		7043336	. NC 28202 686 amy@ls3p./		
Allowed Exterior Lighting	NAMES OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIONO	mvank15.net	Gaviabeli	amyensəp.	com	
Allowed Exterior Lighting	Power	в	с	D		F
Area/Surface C	Category	Quantity	Allowed Watts / Unit	Tradable Wattage		ed Watts X C)
Exterior /Illuminated length of face	erior (Illuminated length of facade wall or surface) 1700 ft 2.5 N					
	ade wall or surface)	10000000		No		250
Canoples (Entry canopy)	ade wall or surface)	1700 ft 3399 ft2	0.25	Yes	10	850
CARL AND ADDRESS	ade wall or surface)	3399 ft2	0.25 Total Tradab Total All	Yes le Watts (a) owed Watts	: ;	850 850 5100
Canopies (Entry canopy)		3399 ft2 Total All	0.25 Total Tradab	Yes le Watts (a) owed Watts	: ;	850 850
Canopies (Entry canopy) (a) Wattage tradeoffs are only	ade wall or surface) allowed between tradable areas/surface equal to 600 watts may be applied towa	3399 ft2 Total All ss.	0.25 Total Tradab Total All owed Supplement	Yes le Watts (a) : owed Watts - al Watts (b) -	: .	850 850 5100 600
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of	allowed between tradable areas/surface equal to 600 watts may be applied towa	3399 ft2 Total All ss.	0.25 Total Tradab Total All owed Supplement	Yes le Watts (a) : owed Watts - al Watts (b) -	: .	850 850 5100 600
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin	allowed between tradable areas/surface equal to 600 watts may be applied towa ig Power A	3399 ft2 Total All es. rd compliance of b	0.25 Total Tradab Total All owed Supplement oth non-tradable a <b>B</b>	Yes le Watts (a) : owed Watts (b) - al Watts (b) - und tradable : C	areas/surfai	850 850 5100 600 ces.
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin	allowed between tradable areas/surface equal to 600 watts may be applied towa	3399 ft2 Total All es. rd compliance of b	0.25 Total Tradab Total All owed Supplement oth non-tradable a	Yes le Watts (a) : owed Watts - al Watts (b) - and tradable :	- - areas/surfar	850 850 5100 600 ces.
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin Fixture ID : Descr Exterior ( Illuminated length of	allowed between tradable areas/surface equal to 600 watts may be applied towa og Power A iption / Lamp / Wattage Per Lamp facade wall or surface 1700 ft); No	3399 ft2 Total All es. rd compliance of b p / Ballast n-tradable Watta	0.25 Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture	Yes le Watts (a) : owed Watts (b) - al Watts (b) - und tradable : C # of	areas/surfar D Fixture	850 850 5100 600 ces.
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin Fixture ID : Descr Exterior ( Illuminated length of LED 1: OWL1: EXTERIOR WAL	allowed between tradable areas/surface equal to 600 watts may be applied towa ing Power A iption / Lamp / Wattage Per Lamp facade wall or surface 1700 ft): Nor LL PACK: LED Other Fixture Unit 46W:	3399 ft2 Total All es. rd compliance of b p / Ballast n-tradable Watta	0.25 Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture	Yes le Watts (a) : owed Watts (b) - al Watts (b) - und tradable : C # of	areas/surfar D Fixture	850 850 5100 600 ces.
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin Fixture ID : Descr Exterior ( Illuminated length of LED 1: OWL1: EXTERIOR WAL Canoples ( Entry canopy 3399	allowed between tradable areas/surface equal to 600 watts may be applied towa ag Power A iption / Lamp / Wattage Per Lamp facade wall or surface 1700 ft): Nor LL PACK: LED Other Fixture Unit 46W: ft2): Tradable Wattage	3399 ft2 Total All es. rd compliance of b p / Ballast n-tradable Watta	0.25 Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture ge	Yes le Watts (a) : owed Watts (b) - al Watts (b) - und tradable : C # of Fixtures	areas/surfar D Fixture Watt.	850 850 5100 600 ces. (C X D) 1551
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin Fixture ID : Descr Exterior ( Illuminated length of LED 1: OWL1: EXTERIOR WAL	allowed between tradable areas/surface equal to 600 watts may be applied towa ag Power A iption / Lamp / Wattage Per Lamp facade wall or surface 1700 ft): Nor LL PACK: LED Other Fixture Unit 46W: ft2): Tradable Wattage	3399 ft2 Total All es. rd compliance of b p / Ballast n-tradable Watta	0.25 Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture 20 1	Yes le Watts (a) : owed Watts (b) - al Watts (b) - and tradable : C # of Fixtures 33	areas/surfar D Fixture Watt. 47 20	850 850 5100 600 ces. E (C X D)
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin Fixture ID : Descr Exterior ( Illuminated length of LED 1: OWL1: EXTERIOR WAL Canopies ( Entry canopy 3399 LED 2: CL1: CANOPY LIGHT: L	allowed between tradable areas/surface equal to 600 watts may be applied towa ag Power A iption / Lamp / Wattage Per Lamp facade wall or surface 1700 ft): Nor LL PACK: LED Other Fixture Unit 46W: ft2): Tradable Wattage	3399 ft2 Total All as. rd compliance of b p / Ballast n-tradable Watta	0.25 Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture 20 1	Yes le Watts (a) : owed Watts (b) - al Watts (b) - und tradable ; C # of Fixtures 33 7	areas/surfar D Fixture Watt. 47 20	850 850 5100 600 ces. (C X D) 1551 140
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin Fixture ID : Descr Exterior ( Illuminated length of LED 1: OWL1: EXTERIOR WAL Canopies ( Entry canopy 3399 LED 2: CL1: CANOPY LIGHT: I Exterior Lighting PASSES	allowed between tradable areas/surface equal to 600 watts may be applied towa ing Power A iption / Lamp / Wattage Per Lamp facade wall or surface 1700 ft): Nor facade wall or surface 1700 ft): Nor	3399 ft2 Total All as. rd compliance of b p / Ballast n-tradable Watta	0.25 Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture 20 1	Yes le Watts (a) : owed Watts (b) - al Watts (b) - und tradable ; C # of Fixtures 33 7	areas/surfar D Fixture Watt. 47 20	850 850 5100 600 ces. (C X D) 1551 140
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin Fixture ID : Descr Exterior ( Illuminated length of LED 1: OWL1: EXTERIOR WAL Canopies ( Entry canopy 3399 LED 2: CL1: CANOPY LIGHT: I Exterior Lighting PASSES Exterior Lighting Complia	allowed between tradable areas/surface equal to 600 watts may be applied towa ing Power A iption / Lamp / Wattage Per Lamp facade wall or surface 1700 ft): Nor facade wall or surface 1700 ft): Nor	3399 ft2 Total All es. rd compliance of b p / Ballast n-tradable Watta	0.25 Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture ge 1 1 Total Tra	Yes le Watts (a) : owed Watts (b) - al Watts (b) - ind tradable : <b>C</b> # of Fixtures 33 7 dable Propos	areas/surfar <b>D</b> Fixture Watt. 47 20 ed Watts =	850 850 5100 600 ces. (C X D) 1551 140 140
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin Fixture ID : Descr Exterior ( Illuminated length of LED 1: OWL1: EXTERIOR WAL Canopies ( Entry canopy 3399 LED 2: CL1: CANOPY LIGHT: I Exterior Lighting PASSES Exterior Lighting Complia Compliance Statement: The p specifications, and other calcu designed to meet the 2012 IEC	allowed between tradable areas/surface equal to 600 watts may be applied towa ag Power A iption / Lamp / Wattage Per Lamp facade wall or surface 1700 ft): Nor LL PACK: LED Other Fixture Unit 46W: ft2): Tradable Wattage LED Other Fixture Unit 16W: S: Design 90% better than cod ance Statement proposed exterior lighting design re lations submitted with this permit CC requirements in COMcheck Vers	3399 ft2 Total All es. rd compliance of b p / Ballast n-tradable Watta epresented in this application. The	0.25 Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture 20 1 1 Total Trad s document is con	Yes le Watts (a) : owed Watts (b) - al Watts (b) - ind tradable : C # of Fixtures 33 7 dable Propos	areas/surfar D Fixture Watt. 47 20 ed Watts =	850 850 5100 600 ces. (C X D) 1551 140 140 140
Canopies (Entry canopy) (a) Wattage tradeoffs are only (b) A supplemental allowance of Proposed Exterior Lightin Fixture ID : Descr Exterior ( Illuminated length of LED 1: OWL1: EXTERIOR WAL Canopies ( Entry canopy 3399 LED 2: CL1: CANOPY LIGHT: I Exterior Lighting PASSES Exterior Lighting Complia Compliance Statement: The p specifications, and other calcu	allowed between tradable areas/surface equal to 600 watts may be applied towa ing Power A iption / Lamp / Wattage Per Lamp facade wall or surface 1700 ft): Nor LL PACK: LED Other Fixture Unit 46W: ft2): Tradable Wattage LED Other Fixture Unit 16W: S: Design 90% better than cod ance Statement proposed exterior lighting design re- lations submitted with this permit CC requirements in COMcheck Vers bection Checklist.	3399 ft2 Total All es. rd compliance of b p / Ballast n-tradable Watta epresented in this application. The	0.25 Total Tradab Total All owed Supplement oth non-tradable a B Lamps/ Fixture 20 1 1 Total Trad s document is con	Yes le Watts (a) : owed Watts (b) - al Watts (b) - and tradable : <b>C</b> # of Fixtures 33 7 dable Propos	areas/surfar D Fixture Watt. 47 20 ed Watts =	850 850 5100 600 ces. (C X D) 1551 140 140 140

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Data filename: J:\2017\17-0151\Electrical\ComCheck\2017-11-2.cck



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Α

AHU-1ALT(\*) MECHANICAL ROOM

AIR I	HANDLING	UNIT UNI	T SCHEDL	JLE						
SYMBOL	LOCATION		ELECTRICAL DATA				ASSIGNED CI	RCUIT	DISC	CONNECT
STIVIBOL	LOCATION	SUPPLY FAN (H.P)	RETURN FAN (H.P)	VOLTS	PHASE	Hz	SUPPLY FAN	RETURN FAN	SUPPLY FAN	RETURN FAN
<u>AHU-1</u>	MECHANICAL ROOM	2 @ 10	2 @ 5	460	3	60	MP1A - 1,3,5	MP1A - 2,4,6	60/FPN/3P/1	30/FPN/3P/1
<u>AHU-2</u>	MECHANICAL ROOM	2 @ 15	2 @ 7 1/2	460	3	60	MP1A - 1,3,5	MP1A - 2,4,6	60/FPN/3P/1	30/FPN/3P/1
<u>AHU-3</u>	MECH MEZZANINE	2 @ 5	2 @ 1 1/2	460	3	60	MP1CA - 20,22,24	MP1CA - 25,27,29	30/FPN/3P/1	30/FPN/3P/1
<u>AHU-4</u>	MECH MEZZANINE	2 @ 5	2@2	460	3	60	MP1CA - 14,16,18	MP1CA - 19,21,23	30/FPN/3P/1	30/FPN/3P/1
<u>AHU-5</u>	MECH MEZZANINE	2 @ 5	2 @ 1 1/2	460	3	60	MP1CA - 2,4,6	MP1CA - 7,9,11	30/FPN/3P/1	30/FPN/3P/1
<u>AHU-6</u>	MECH MEZZANINE	2 @ 7 1/2	2@3	460	3	60	MP1CA - 8,10,12	MP1CA - 13,15,17	30/FPN/3P/1	30/FPN/3P/1
AHU-1ALT*	MECHANICAL ROOM	2 @ 10	2 @ 7 1/2	460	3	60	MP1A - 1,3,5	MP1A - 2,4,6	60/FPN/3P/1	60/FPN/3P/1
			·							

SINGLE POINT ELECTRICAL CONNECTION FOR EACH SET OF FANS 2. IONIZATION TYPE SMOKE DETECTORS SHALL BE PROVIDED WITH EACH UNIT. DUCT DETECTORS WILL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, INSTALLED IN DUCT BY THE MECHANICAL CONTRACTOR, AND WIRED FOR UNIT SHUT DOWN AND FIRE ALARM INTERFACE BY THE ELECTRICAL CONTRACTOR. DUCT DETECTORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

(\*) - PROVIDE AHU-1ALT INSTEAD OF AHU-1 IF CLASSROOM ALTERNATE IS ACCEPTED. AHU-2 REMAIN UNCHANGED.

EL	ELECTRIC DUCT HEATER SCHEDULE											
<u>SYMBOL</u>	LOCATION	<u>K.W.</u>	<u>STEPS</u>	VOLTAGE	ASSIGNED CIRCUIT	DISCONNECT						
<u>EDH-1</u>	KITCHEN OFFICES	2.0	1	460V-3Ø	MP1C - 20,22,24	MMS						

PUMP SCHEDULE									
SYMBOL	IBOL SERVICE								
STIVIDOL	JERVICE	<u>H.P.</u>	<u>VOLTAGE</u>	ASSIGNED CIRCUIT	DISCONNECT				
<u>P-1</u>	CHILLER #1	5	460V-3∅	MP1C - 19,21,23	30/20F/3P/1				
<u>P-2</u>	CHILLER #1	5	460V-3∅	MP1C - 14,16,18	30/20F/3P/1				
<u>P-3</u>	CHILLED WATER LOOP	5	<b>460V-3</b> ∅	MP1C - 13,15,17	30/20F/3P/1				
<u>P-4</u>	CHILLED WATER LOOP	5	<b>460</b> V-3∅	MP1C - 8,10,12	30/20F/3P/1				
<u>P-5</u>	HOT WATER LOOP	2	<b>460</b> V-3∅	MP1C - 7,9,11	30/20F/3P/1				
<u>P-6</u>	HOT WATER LOOP	2	<b>460V-3</b> ∅	MP1C - 2,4,6	30/20F/3P/1				
<u>P-7</u>	BOILER B-1	s	120V-1Ø	RP1C - 35	MMS				
<u>P-8</u>	BOILER B-2	s	120V-1Ø	RP1C - 34	MMS				

## **ENERGY RECOVERY VENTILATOR SCHEDU**

		<u>SUPPLY AIR</u>	EXHAUST A	<u>AIR</u>		ELECTRICAL	<u>DATA</u>
<u>SYMBOL</u>	LOCATION	FAN HP	FAN HP	<u>MCA</u>	MOCP	<u>VOLTAGE</u>	<u>A</u>
<u>ERV-1</u>	MECH MEZZANINE	1	1	5.1	15	460V-3∅	М

# ROOFTOP UNIT SCHEDULE

1.001									
		COMBO FA	<u>AN AIR</u>				<b>ELECTRICAL</b>	DATA	
<u>SYMBOL</u>	LOCATION	<u>FAN HP</u>	<u>RLA</u>	<u>LRA</u>	<u>MCA</u>	MOCP	<u>VOLTAGE</u>	ASSIGNED CIRCUIT	DISCONNECT
RTU-1	ROOF	1	9.6/7.1	75/46	22.7	30	460V-3∅	MP1C - 25,27,29	30/30F/3P/3R

# DUCTIESS SPLIT SYSTEMS (DX COOLING ONLY)

	DUCTELSS SPEIT STSTEWS (DX COULING UNET)															L				
INDOOR UNIT						OUTDOOR	<u>UNIT</u>													
SYMBOL CFM	ELECTRIC	AL DATA				SYMBOL	<u>COMP</u>	RESSOR	<u>FAN</u>	ELECTRIC	AL DATA								P SCHEDU	
	FAN FLA	<u>MCA</u>	<u>VOLTAGE</u>	ASSIGNED CIRCUIT	<b>DISCONNECT</b>	STINDOL	<u>LRA</u>	<u>RLA</u>	<u>FLA</u>	<u>MCA</u>	<u>FUSE</u>	<u>VOLTAGE</u>	ASSIGNED CIRCUIT	DISCONNECT					r Schedu	<u> </u>
<u>A/C-1</u>	0.36	1.0	208V-1Ø	POWERED VIA ODU-1	MMS	<u>ODU-1</u>	17.5	12	0.75	25	40	208V-1Ø	RP1A - 55,57	60/40F/2P/3R						
<u>A/C-2</u>	0.33	1.0	208V-1Ø	POWERED VIA ODU-2	MMS	<u>ODU-2</u>	14	12	0.35	13	15	208V-1Ø	RP1A - 51,53	30/15F/2P/3R	SYMBOL	LOCATION	<u>K.W.</u>	<b>VOLTAGE</b>	ASSIGNED CIRCUIT	DISCONNECT
<u>A/C-3</u>	0.33	1.0	208V-1Ø	POWERED VIA ODU-3	MMS	<u>ODU-3</u>	14	12	0.35	13	15	208V-1Ø	RP1A - 52,54	30/15F/2P/3R	RCP1	MECH 003	.656	120V-1P	RP1C-26	MMS
<u>A/C-4</u>	0.33	1.0	208V-1Ø	POWERED VIA ODU-4	MMS	<u>ODU-4</u>	14	12	0.35	13	15	208V-1Ø	RP1A - 56,58	30/15F/2P/3R	RCP2	MECH 003	.05	120V-1P	RP1C-24	MMS
<u>A/C-5</u>	0.33	1.0	208V-1Ø	POWERED VIA ODU-5	MMS	<u>ODU-5</u>	14	12	0.35	13	15	208V-1Ø	RP1CA - 55,57	30/15F/2P/3R						
															<u>SP1</u>	MECH 003	1.127	120V-1P	RP1B-65	MMS

3



1

2

# 1. ALL UNITS ARE INDIVIDUAL VARIABLE FREQUENCY DRIVES (NO BYPASS) FOR EACH SET OF MULTIPLE SUPPLY/RETURN FAN(S) WITH

CHILLI	CHILLER SCHEDULE						
			<b>ELECTRICA</b>	<u>L DATA</u>			
SYMBOL	<u>VOLTAGE</u>	<u>MCA</u>	MOCP	ASSIGNED CIRCUIT	DISCONNECT		
CHILLER-1	460V-3P	385	500	MSB - 14	500/500F/3P/3R		

J	LE	ı		

**DISCONNECT** ASSIGNED CIRCUIT MP1CA - 1,3,5 30/15F/3P/1

# WATER HEATER SCHEDULE

<u>SYMBOL</u>	LOCATION	<u>K.W.</u>	<u>VOLTAGE</u>	ASSIGNED CIRCUIT	<u>DISCONNECT</u>
<u>WH-1</u>	MECH 003	.5	120V-1P	RP1C-20 & 22	MMS
<u>WH-2</u>	MECH 003	.5	120V-1P	RP1C-27	MMS
<u>WH-3</u>	MECH 003	4.5	208V-2P	CLP-27,29	30/20F/2P/1

4

### 2 @ 10 2 @ 7i 460 3 60 TRANE CSAA-40 VAV

FA	N SCHED	DULE					
CVADOL		ELEC	TRICAL I	DATA			
<u>SYMBOL</u>	LOCATION	<u>WATTS</u>	<u>H.P.</u>	VOLTAGE	ASSIGNED CIRCUIT	<b>DISCONNECT</b>	<u>CONTROLS</u>
<u>F-1</u>	KITCHEN HOOD		1.5	<b>460</b> V-3∅	MP1C - 26,28,30	30/20F/3P/3R	7
<u>F-2</u>	KITCHEN HOOD		1.5	<b>460</b> V-3∅	MP1C - 31,33,35	30/20F/3P/3R	7
<u>F-3</u>	DISHWASHER		1/4	120V-1Ø	RP1C - 23	30/20F/1P/3R	8
<u>F-4</u>	KITCHEN TOILET	50		120V-1Ø	KPL2 - 20	MMS	2
<u>F-5</u>	KITCHEN JANITOR	50		120V-1Ø	KPL2 - 17	MMS	2
<u>F-6</u>	MECHANICAL		1/4	120V-1Ø	RP1C - 22	MMS	1
<u>F-7</u>	ELECTRICAL		1/4	120V-1Ø	RP1C - 25	30/20F/1P/3R	1
<u>F-8</u>	N/A						
<u>F-9</u>	TOILETS		1/4	120V-1Ø	RP1CA - 36	MMS	5
<u>F-10</u>	SCIENCE	769		120V-1Ø	RP1A - 17	MMS	4
<u>F-11</u>	PREP	129		277V-1Ø	MP1A - 7	MMS	3
<u>F-12</u>	SCIENCE	769		120V-1Ø	RP1A - 99	MMS	4
<u>F-13</u>	ART	769		120V-1Ø	RP1A - 100	MMS	4
<u>F-14</u>	ART KILN	129		277V-1Ø	MP1A - 9	MMS	1
<u>F-15</u>	SCIENCE	769		120V-1Ø	RP2A - 128	MMS	4
<u>F-16</u>	PREP	129		277V-1Ø	MP2A - 15	MMS	3
<u>F-17</u>	SCIENCE	769		120V-1Ø	RP2A - 129	MMS	4
<u>F-18</u>	SCIENCE	769		120V-1Ø	RP2A - 131	MMS	4
<u>F-19</u>	PREP	129		277V-1Ø	MP2A - 13	MMS	3
<u>F-20</u>	SCIENCE	769		120V-1Ø	RP2A - 132	MMS	4
<u>F-21</u>	TOILETS		1/4	120V-1Ø	RP2A - 130	MMS	5
<u>F-22</u>	TOILETS		1/4	120V-1Ø	RP2A - 133	MMS	5
<u>F-23</u>	CONCESSION		1/4	120V-1Ø	XXX - XXX	MMS	5

# <u>CONTROLS</u> 1: WALL MOUNTED THERMOSTAT (REVERSE ACTING, SET FOR 80°)

<u>EWH-1</u> EWH-2

EWH-3 EWH-4 EWH-5 EWH-6 EWH-7

<u>EWH-8</u>

2: INTERLOCK WITH ROOM LIGHT SWITCH (FAN SHALL OPERATE WHEN LIGHT IS ON

IN ANY ROOM SERVED BY FAN)

3: WALL MOUNTED TWIST TIMER WITH 0-3 HOUR RANGE WITH IDENTIFICATION LABEL

4: WALL MOUNTED TWIST TIMER WITH 0-30 MINUTE RANGE WITH IDENTIFICATION LABEL

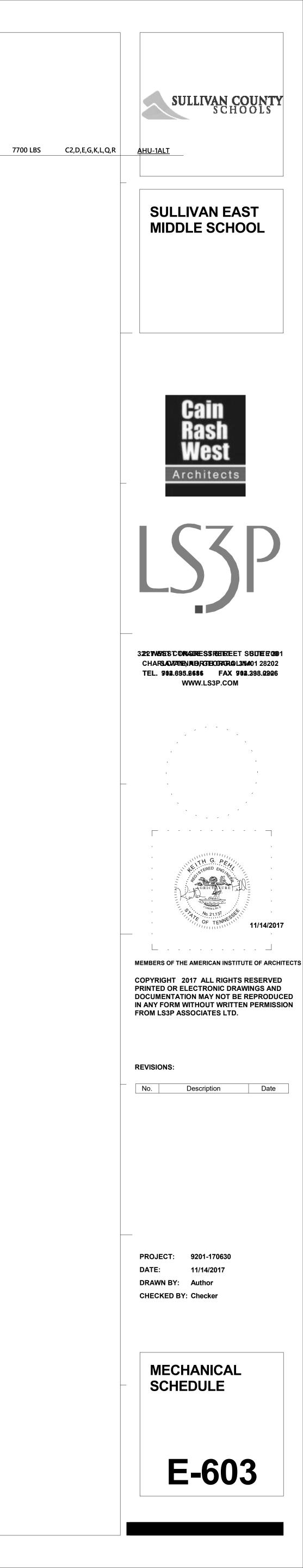
5: CONTROLLED BY BUILDING AUTOMATION SYSTEM

**6: CONTINUOUS OPERATION** 7: INTERLOCK WITH KITCHEN HOOD CONTROLS

8: INTERLOCK WITH DISHWASHER

9: INTERLOCK WITH RANGE HOOD

ELE	ELECTRIC HEATER SCHEDULE							
CVM (DO)		ELE	CTRICAL	DATA				
<u>SYMBOL</u>	LOCATION	KW	<u>H.P.</u>	VOLTAGE	ASSIGNED CIRCUIT	DISCONNECT		
<u>EUH-1</u>	BOILER ROOM	3.3	1/125	277V-1Ø	MP1C - 1,3,5	BY M.C.		
<u>EWH-1</u>	HS STAIR	2.0		277V-1Ø	RP1A - 24	BY M.C.		
EWH-2	HS STAIR	2.0		277V-1Ø	RP1B - 28	BY M.C.		
<u>EWH-3</u>	CONCESSIONS	2.0		277V-1Ø	CHP - 54	BY M.C.		
EWH-4	CONCESSIONS	2.0		277V-1Ø	CHP - 52	BY M.C.		
<u>EWH-5</u>	CONCESSIONS	2.0		277V-1Ø	CHP - 55	BY M.C.		
<u>EWH-6</u>	CONCESSIONS	2.0		277V-1Ø	CHP - 56	BY M.C.		
<u>EWH-7</u>	CONCESSIONS	2.0		277V-1Ø	CHP - 58	BY M.C.		
<u>EWH-8</u>	CONCESSIONS	2.0		277V-1Ø	CHP - 57	BY M.C.		



			S	WITCH	HBOAF	RD:	MSB	
		VOLTAGE: 480/27 MOUNTING: FLOO	7 Wye	PHAS			WIRE: 4 MAIN: 1600 A	MANUFACTURER TYPE AIC
MAIN CB	NOTES: 5,6,9						MAIN. 1000 A	AIC
					1			
CKT/ID		LOAD SERVED		FRAME	TRIP	POLE	FEEDER	
1	PANEL LP1C			100 A	100 A	3	SR, NOTE 5	SR, NOTE 5
2		(VIA TXRP1C)		100 A	70 A	3	SR, NOTE 5	SR, NOTE 5
3	PANEL MP1C			200 A	150 A	3	SR, NOTE 5	SR, NOTE 5
4	PANEL DP1A PANEL DP1B			400 A 200 A	300 A 125 A	3	SR, NOTE 5	SR, NOTE 5
5 6	PANEL DP1B			400 A	400 A	3	SR, NOTE 5 SR, NOTE 5	SR, NOTE 5 SR, NOTE 5
7	PANEL BP2A			600 A	500 A	3	SR, NOTE 5	SR, NOTE 5
8	DP1CA			400 A	250 A	3	SR, NOTE 5	SR, NOTE 5
9	SPD			100 A	60 A	3	NOTE 6, SEE DETAIL	NOTE 6, SEE
10	SPARE				400 A	1		
11	SPARE				200 A	1		
12	SPACE ONLY	· · ·						
13	SPACE ONLY	(400A)						
14	CHILLER			600 A	500 A	3	(2) 3-250KCMIL, 1#2G	(2) 3-250KCI
15								
16 17								
18								
19								
20								
21								
22								
23								
24								
25								
26 27								
27								
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30								
31								
32								
33								
34								
35								
36								
37 38								
38								
40								
41						<u> </u>		
42								
					Conn. Load: Total Amps:	1115.66 1342 A	·	
	sification	Connected Load	Demand Factor		ed Demand	NOTES		
LIGHTS		44.82 kVA	125.00%		02 kVA		SWBD SHALL BE U.L. LISTE	
HEATING COOLING		0.00 kVA 0.00 kVA	0.00%		0 kVA		BRKRS SHALL BE FULLY RA	
VENTILAT		0.00 kVA 40.48 kVA	0.00%		00 kVA 48 kVA		BUSSING, INCL GND AND NE NCOMING BUSSING AND BF	
MOTORS		40.48 KVA 67.55 kVA	107.99%		48 KVA 95 kVA		VIDE BRKR WITH ADJUSTAE	
KITCHEN		19.73 kVA	80.00%		79 kVA		VIDE EMERGENCY-REDUCI	
RECEPTA		267.74 kVA	51.87%		.87 kVA		VIDE SWBD WITH POWER M	
WATER H		1.50 kVA	100.00%		50 kVA		VIDE BREAKER WITH SHUN	
MISC.		49.28 kVA	100.00%		28 kVA		RATED MAIN.	
		0.00 kVA	0.00%				F RISER	

MISC.	49.28 kVA	100.00%
Spare	0.00 kVA	0.00%
	TOTAL LOAD PER PHAS	SE (CONNECTED)
1385 A	1340 A	1310 A
тс	TAL LOAD PER PHASE @	0125% (CONNECTED)
1731 A	1675 A	1638 A
TOTAL DEMAN	D:	999.25 kVA

TOTAL DEMAND:

1202 A

E

D

С

В

Α

					F	PAN	EL:	LP	1A						
<b>VOLTAGE</b> : 480/2	277 Wy	е				MAIN <sup>-</sup>	TYPE:	MLO						l	MFR:
MOUNTING: SUR	FACE					Pł	HASE:	3						т	YPE:
<b>MAIN</b> : 100	A					1	WIRE:	4							AIC: 18,000 AMPS SY
	Wire		скт	POLE		A ) KVA)	(LC		(LOAD	C KVA)	POLE	скт		Wire	
LOAD SERVED	Size	TRIP	NO	S	(	,	KV	'A)	<b>、</b>		S	NO	TRIP	Size	LOAD S
TG-1ST FLOOR AREA A	10	20 A	1	1	2.9	3.1					1	2	20 A	10	LTG-1ST FLOOR ARE
TG-EXTERIOR CANOPY	10	20 A	3	1			1.5	1.8			1	4	20 A	6	LTG-EXTERIOR WAL
TG-1ST FLOOR AREA A CORR.	12	20 A	5	1					3.3	0.0		6			SPACE ONLY
	12	207	0	1					0.0	0.0		0			

0.00 kVA SR -- SEE RISER

VO	LTAGE: 480	)/277 Wye	e				MAIN	TYPE:	MLO							MFR:
MOU	JNTING: SU	RFACE					Pl	HASE:	3						Т	YPE:
	<b>MAIN:</b> 100	A						WIRE:	4							AIC: 18,000 AMPS SYMMETRICAL
LOAD SERVED		Wire Size	TRIP	CKT NO	POLE S	(LOAE	A D KVA)		B DAD /A)	(LOAE	C ) KVA)	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED
LTG-1ST FLOOR AREA A		10	20 A	1	1	2.9	3.1					1	2	20 A	10	LTG-1ST FLOOR AREA A
LTG-EXTERIOR CANOPY		10	20 A	3	1			1.5	1.8			1	4	20 A	6	LTG-EXTERIOR WALL PACKS
LTG-1ST FLOOR AREA A CO	RR.	12	20 A	5	1					3.3	0.0		6			SPACE ONLY
SPARE			20 A	7	1	0.0	0.0						8			SPACE ONLY
SPARE			20 A	9	1			0.0	0.0				10			SPACE ONLY
SPARE			20 A	11	1					0.0	0.0		12			SPACE ONLY
SPARE			20 A	13	1	0.0	0.0						14			SPACE ONLY
SPARE			20 A	15	1			0.0	0.0				16			SPACE ONLY
SPACE ONLY				17						0.0	0.0		18			SPACE ONLY
SPACE ONLY				19		0.0	0.0						20			SPACE ONLY
SPACE ONLY				21				0.0	0.0				22			SPACE ONLY
				23									24			
				25									26			
				27									28 30			
				29 31									30			
				33									32 34			
				35									36			
				37									38			
				39									40			
				41									42			
													72			
LOAD		Connect	ed Loa	d De	mand F	actor	Estima	ted De	mand	NOTES	S:					
LIGHTS		12.25			125.00			.31 kV				FRAME	SHA	LL BE A	SREQ	D PER PANEL AIC RATING.
HEATING		0.00	kVA		0.00%	6	0.	00 kVA	4	2. SHA	LL BE I	FULLY I	RATE	D - SEF	RIES RA	ATINGS NOT ALLOWED.
COOLING		0.00	kVA		0.00%	6	0.	00 kVA	4	3. ALL	BUSSI	NG, INC	LGN	ID AND	NEUTF	RAL, SHALL BE COPPER.
VENTILATION		0.00	kVA		0.00%	6	0.	00 kVA	4	4. ALL	INCOM	IING PA	NEL	& BRKF	RLUGS	SHALL MATCH FEEDERS.
MOTORS		0.00	kVA		0.00%	6	0.	00 kVA	٩	5. PRC	VIDE H	HINGED	DOC	DR-IN-D	OOR W	/ITH OUTER DOOR LOCK.
KITCHEN		0.00	kVA		0.00%	6	0.	00 kVA	4	6. PRC	VIDE N	/ETAL I	DIRE	CTORY	FRAME	Ξ.
RECEPTACLES		0.00	kVA		0.00%	6	0.	00 kVA	٩							
WATER HEATER		0.00	kVA		0.00%	6	0.	00 kVA	4							
MISC.		0.00	kVA		0.00%	6	0.	00 kVA	4							
Spare		0.00	kVA		0.00%	6	0.	00 kVA	A							
TOTAL KVA (CONNECTED):	12.5 kVA		TOTAL	_ PEF	R PHAS	E: (CON	NECT	ED)								
TOTAL KVA (DEMAND):	15.6 kVA	21	А		12 A			12 A								
TOTAL AMP. (CONNECTED):	15 A	ТОТ	TAL PE	R PH	ASE: (C	ONNEC	CTED @	0 125%	b)							
TOTAL AMP. (DEMAND):	19 A	27	A		15 A			15 A								

**C:** 65,000 NOTES Load 10.70 kVA 27.45 kVA 38.64 kVA 149.66 kVA 42.18 kVA 182.07 kVA 228.01 kVA 123.53 kVA E DETAIL 0.00 kVA 0.00 kVA 0.00 kVA 0.00 kVA 0.00 kVA MIL, 1#2G 318.00 kVA \_\_\_\_\_ \_\_\_\_\_ 

INGS. PPER. CH FEEDERS. FUNCTIONS. /ITCH WITH STATUS INDICATOR. R EQUAL. 

			PAN	IEL:	DP1A												P	PAN	EL: MF	<b>P1A</b>					
VOLTAGE	: 480/277 Wye		MAIN	I TYPE:	МСВ					MFR:			<b>/OLTAGE</b> : 48	0/277 Wve				MAIN 1	TYPE: MLC					MFR	
	: SURFACE			PHASE:						TYPE:			OUNTING: SU	•					HASE: 3					TYPE	
	: 300 A			WIRE:						AIC:	8,000 AMPS SYMMETRICAL		<b>MAIN:</b> 10					١	WIRE: 4					AIC	: 18,000 AMPS SYMMET
			_		В	-												-	В		-				
LOAD SERVED	Wire Size T	CKT POI	-E (LOAD KVA		AD ///	C DAD KVA)			> Wire Size		LOAD SERVED	LOAD SERVE	ED	Wire Size		T POLE	(LOAD	A KVA)	(LOAD KVA)	(LOA	C D KVA)	POLE CH		Wire Size	LOAD SERVE
		1	5.9 0.0				1 2	2 20 A	۹	- SPAR	Ξ				1		7.2					2	2		
PANEL LP1A	SR 10	00 A 3 3		3.3			4	4				AHU - 1S		6	50 A 3	_			7.2 3.7			3 4	4 30 A	8 AHU	J - 1R (NOTE 7)
		5			3	.3 11.0	3 (	6 100	A SR	R PANE	_ MP1A				5					7.2	3.7	6	6		
SPARE	2	0A 7 1	0.0 10.9				ł	8				FAN F-11			20 A 7		0.1					8	8		
SPARE	2	0A 9 1		0.0				0				FAN F-14			20 A 9				0.1 0.0				0 30 A	SPA	'RE
		11			34	.1 0.0		2 20 A	A	- SPAR	Ξ	SPARE			20 A 11					0.0	0.0	1	2		
PANEL RP1A (VIA TXRP1A)	SR 17	75 A 13 3	37.0 0.0					4				SPACE ONLY			13		0.0					1	4	SPA	
		15		34.7	1			6 20 A		- SPAR		SPACE ONLY							0.0 0.0				6		ACE ONLY
SPARE		0A 17 1			0	.0 0.0		8 20 A				SPACE ONLY			17					0.0	0.0	1	8		ACE ONLY
SPARE	2	0A 19 1	0.0 0.0					20 20 A	۰- ۲	- SPAR	Ξ	SPACE ONLY			19		0.0					2	20	SPA	ACE ONLY
SPACE ONLY		21		0.0	1			2			EONLY	SPACE ONLY			21				0.0 0.0				2	SPA	
SPACE ONLY		23			0	.0 0.0		24		- SPAC		SPACE ONLY			23					0.0	0.0	2	24	SPA	
SPACE ONLY		25	0.0 0.0				2			- SPAC		SPACE ONLY			25		0.0					2		SPA	
SPACE ONLY		27		0.0	0.0		2			- SPAC	EONLY	SPACE ONLY			27				0.0 0.0			2	28	SPA	CE ONLY
		29						80							29								80		
		31						32							31								32		
		33						84							33								34		
		35						6							35								6		
		37						8							37								8		
		39						0							39								0		
		41					4	2							41							4	2		
	1		I																						
LOAD	Connected	Load Deman	d Factor Estim	ated Der	mand NO	TES:						LOAD		Connecte	ed Load D	emand F	Factor E	Estimat	ted Demano						
LIGHTS	12.25 k\	/A 125	.00% 1	5.31 kVA	A 1. E	BREAKER FF	RAME SI	HALL BE	E AS REC	EQ'D PER	PANEL AIC RATING.	LIGHTS		0.00	kVA	0.00%	%	0.0	00 kVA	1. BRE	EAKER F	RAME SH	HALL BE A	AS REQ'D PE	ER PANEL AIC RATING.
HEATING	0.00 kV	A 0.0	00%	0.00 kVA	2. 5	SHALL BE FU	JLLY RA	TED - S	ERIES R	RATINGS	NOT ALLOWED.	HEATING		0.00	kVA	0.00%	%	0.0	00 kVA	2. SHA	ALL BE F	ULLY RA	TED - SEF	RIES RATINO	GS NOT ALLOWED.
COOLING	0.00 kV	A 0.0	00%	0.00 kVA	3. A	ALL BUSSING	G, INCL	GND AN	ID NEUT	JTRAL, SH	ALL BE COPPER.	COOLING		0.00	kVA	0.00%	%	0.0	00 kVA	3. ALL	BUSSIN	NG, INCL	GND AND	NEUTRAL,	SHALL BE COPPER.
/ENTILATION	32.58 k\	/A 100	.00% 3	2.58 kVA	A 4. A	ALL INCOMIN		EL & BRI	KR LUG	GS SHALI	MATCH FEEDERS.	VENTILATION		32.58	kVA	100.00	)%	32.	.58 kVA	4. ALL	INCOM	ING PANE	EL & BRKF	R LUGS SHA	ALL MATCH FEEDERS.
IOTORS	3.39 kV	A 105	.68%	3.58 kVA	5. F	PROVIDE HIN	IGED D	OOR-IN-	-DOOR V	R WITH OL	ITER DOOR LOCK.	MOTORS		0.00	kVA	0.00%	%	0.0	00 kVA	5. PR0	OVIDE H	INGED D	OOR-IN-D	OOR WITH	OUTER DOOR LOCK.
KITCHEN	10.81 k\	/A 100	.00% 1	0.81 kVA	A 6. F	PROVIDE ME	TAL DIF	RECTOR	RY FRAM	ME.		KITCHEN		0.00	kVA	0.00%	%	0.0	00 kVA	6. PR0	OVIDE N	IETAL DIF	RECTORY	FRAME.	
RECEPTACLES	63.95 k\	/A 57.	82% 3	6.98 kVA	۸							RECEPTACLES		0.00	kVA	0.00%	%	0.0	00 kVA	7. PR0	OVIDE 5	0A/3-POL	E BREAKI	ER IF CLASS	SROOM ALTERNATE IS
WATER HEATER	0.00 kV	A 0.0	00%	0.00 kVA	SR	SEE RISE	R					WATER HEATER		0.00	kVA	0.00%	%	0.0	00 kVA	SEE "/	AHU-1AI	LT" ON ME	ECHANIC	AL SCHEDU	LE FOR MORE DETAIL.
MISC.	16.44 k\	/A 100	.00% 1	6.44 kVA	۸							MISC.		0.26	kVA	100.00	)%	0.2	26 kVA						
Spare	0.00 kV	A 0.0	00%	0.00 kVA								Spare		0.00	kVA	0.00%	%	0.0	00 kVA						
TOTAL KVA (CONNECTED): 149.7	k\/A T(		ASE: (CONNEC									TOTAL KVA (CONNECTED	)) <sup>.</sup> 32.8 k\/A		TOTAL PE				וח=						
TOTAL KVA (CENINLETED). 143.7 TOTAL KVA (DEMAND): 125.9			75 A	173 A								TOTAL KVA (DEMAND):	32.8 kVA	40		40 A	•		39 A						
· · · ·					<u> </u>							, ,													
TOTAL AMP. (CONNECTED): 180 A			(CONNECTED	- ,	)							TOTAL AMP. (CONNECTE			AL PER PH			-							
TOTAL AMP. (DEMAND): 151 A	241 A	21	9 A	216 A								TOTAL AMP. (DEMAND):	40 A	50	A	50 A	4		49 A						

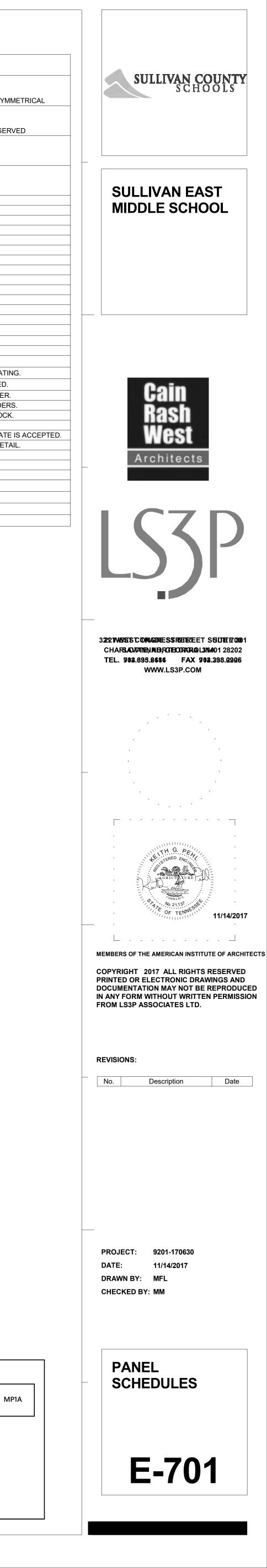
VOLTAGE: 120 MOUNTING: SUF MAIN: 400	RFACE	e				Ρ	EL: TYPE: HASE: WIRE:	MCB 3	1A						MFR: IYPE: AIC: 10,000 AMPS SYMMETRICAL
wany, 400						_									
LOAD SERVED	Wire Size	TRIP	CKT NO	POLE S		Α		В	0	0	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED
REC - CONF. A110	10	20 A	1	1	0.7	0.5					1	2	20 A	10	REC - CONF A110
REC - OFFICE A109	10	20 A	3	1			0.9	0.9			1	4	20 A	10	REC - CORR A100A
REC - A101	10	20 A	5	1					0.7	0.7	1	6	20 A	10	REC - HEALTH A102
REC - HEALTH A102	10	20 A	7	1	0.7	0.2					1	8	20 A	10	REFRIG - HEALTH A102 (NOTE 7)
REC - A105	10	20 A	9	1			0.9	0.9	0.4	0.7	1	10	20 A	10	REC - A106
REC - A107 REC - A108	10	20 A 20 A	11 13	1	0.9	0.5			0.4	0.7	1	12 14	20 A 20 A	10 10	REC - A107 REC - A116A
REC - A116C	10	20 A	15	1	0.3	0.5	0.7	0.2			1	14	20 A	10	WASHER - A116B (NOTE 7)
REC - A118	10	20 A	17	1					0.4	0.2	1	18	20 A	10	DISHWASHER - A118 (NOTE 7)
REFRIGERATOR A118 (NOTE 7)	10	20 A	19	1	0.2	0.2					1	20	20 A	10	REC - PREP A118
REC - ART A115	10	20 A	21	1			0.7	0.6			1	22	20 A	10	EWC - ART A115 (NOTE 7)
REC - ART A115	10	20 A	23	1					0.5	0.2	1	24	20 A	10	EWH-1
EXTERIOR REC REC - CDC A116	6 10	20 A 20 A	25 27	1	1.1	0.2	0.7	0.5			1	26 28	20 A 20 A	10 10	AHU-1 CONTROLLER REC - CDC A116
REC - CDC A116	10	20 A	29	1			0.7	0.5	0.7	0.7	1	30	20 A	10	REC - RES. A120 - CRT#1
REC - RES. A120 - CRT#2	10	20 A	31	1	0.4	0.7				••••	1	32	20 A	10	REC - RES. A120 - CRT#3
REC - SCIENCE A121 - CRT#1	10	20 A	33	1			0.4	0.4			1	34	20 A	10	REC - SCIENCE A121 - CRT#2
REC - SCIENCE A121 - CRT#3	10	20 A	35	1					0.4	0.4	1	36	20 A	10	REC - SCIENCE A121 - CRT#4
REC - SCIENCE A121 - CRT#5	10	20 A	37	1	0.4	0.4					1	38	20 A	10	REC - SCIENCE A121 - CRT#6
REC - SCIENCE A121 - CRT#7	10	20 A	39	1			0.9	0.4	0.5	<u> </u>	1	40	20 A	10	REC - SCIENCE A121 - CRT#8
REC - SCIENCE A121 - CRT#9	10	20 A	41	1	0.4	0.4			0.5	0.4	1	42	20 A	10	REC - SCIENCE A117 - CRT#1 REC - SCIENCE A117 - CRT#3
REC - SCIENCE A117 - CRT#2 REC - SCIENCE A117 - CRT#4	10	20 A 20 A	43 45	1	0.4	0.4	0.4	0.4			1	44 46	20 A 20 A	10 10	REC - SCIENCE A117 - CRT#3 REC - SCIENCE A117 - CRT#5
REC - SCIENCE A117 - CRT#4	10	20 A	43	1			0.4	0.4	0.4	0.9	1	40	20 A 20 A	10	REC - SCIENCE A117 - CRT#5
REC - SCIENCE A117 - CRT#8	10	20 A	49	1	0.4	0.5					1	50	20 A	10	REC - SCIENCE A117 - CRT#9
ODU-2	12	15 A	51	2			1.4	1.4			2	52	15 A	12	ODU-3
000-2	12	15 A	53	2					1.4	1.4		54	IJA	12	000-3
ODU-1	8	40 A	55	2	2.6	1.4					2	56	15 A	12	ODU-4
	10	00.4	57				2.6	1.4	0.0	0.4		58	_		
REC - ELEC A113	12	20 A	59 61	1	3.6	2.4			0.2	2.4	3	60 62	50 A	8	KILN A115A - KILN
LAUNDRY A116B - DRYER	8	20 A	63	2	5.0	2.4	3.6	2.4			5	64	30 A	0	RIEN ATTISA - RIEN
REC - MAIN DATA D100	12	20 A	65	1			0.0		0.5	0.2	1	66	20 A	12	REC - MAIN DATA D100
REC - MAIN DATA D100	12	20 A	67	1	0.5	0.5					1	68	20 A	12	REC - MAIN DATA D100
REC - MAIN DATA D100	12	20 A	69	1			0.5	3.6			2	70	20 A	10	REC - MAIN DATA D100
REC - MAIN DATA D100	12	20 A	71	1					0.5	3.6		72			
REC - A119	12	20 A	73	1	0.5	0.5	0.0	0.0			1	74	20 A	12	REC - MAIN DATA D100
REC - A119	12	20 A	75 77	1			0.2	3.6	3.6	3.6	2	76 78	20 A	10	REC - MAIN DATA D100
REC - MAIN DATA D100	10	20 A	79	2	3.6	0.5			3.0	5.0	1	80	20 A	12	REC - A119
REC - A119	12	20 A	81	1	0.0	0.0	0.5	1.8				82			
REC - A119	12	20 A	83	1					0.5	1.8	2	84	20 A	12	REC - A119
ELEC A113 - NAC (NOTE 9)	12	20 A	85	1	0.2	1.8					2	86	20 A	12	REC - A119
REC - MAIN DATA D100	12	20 A	87	1			0.2	1.8			_	88			
REC - REFRIG A116 (NOTE 7) REC - CDC A116	10	20 A 20 A	89 91	1	0.2	5.4			0.2	5.4	2	90 92	50 A	6	RANGE - CDC A116
REC - CDC A116	10	20 A	91	1	0.2	5.4	0.2	0.8			1	92	20 A	12	FAN F-10
DISHWASHER - A116 (NOTE 7)	10	20 A	95	1			0.2	0.0	0.2	0.7	1	96	20 A	8	FIRE SMOKE DAMPER POWER
REC - CDC A116	10	20 A	97	1	0.2	1.0					1	98	20 A	10	SCIENCE A117 SOLENOID PWR
FAN F - 12	12	20 A	99	1			0.8	0.8			1	100	20 A	12	FAN F-13
LED SITE SIGN	6	20 A	101	1					0.5	0.5	1	102	20 A	8	LED SITE SIGN
SECURITY CONTROL POWER	10	20 A	103	1	0.4	1.1	0.7	0.1			1	104	20 A	10	VAV'S - AREA A
REC - A123 (ALTERNATE) REC - A122 (ALTERNATE)	12	20 A 20 A	105 107	1			0.7	0.4	0.7	0.7	1	106 108	20 A 20 A	12 12	REC - A123 (ALTERNATE) REC - A122 (ALTERNATE)
REC - A122 (ALTERNATE)	12	20 A	107	1	0.4	0.7			0.7	0.7	1	110	20 A	12	REC - A122 (ALTERNATE)
REC - HEALTH A102	12	20 A	111	1	0.1	0.1	0.5	0.5			1	112	20 A	12	HAND DRYER - TOILET A103
MISC.		20 A	113	1					0.1			114			
SPARE		20 A	115	1	0.0	0.0					1		20 A		SPARE
SPARE		20 A	117	1			0.0	0.0	-		1	118			SPARE
SPARE		20 A	119		0.0	0.0			0.0	0.0	1	120	20 A		SPARE
SPARE SPARE		20 A 20 A	121 123	1	0.0	0.0	0.0	0.0			1	122 124	20 A 20 A		SPARE SPARE
SPARE		20 A	125	1			0.0	0.0	0.0	0.0	1	124	20 A		SPARE
SPARE		20 A	127	1	0.0	0.0				-	1	128	20 A		SPARE
SPACE ONLY			129				0.0	0.0				130			SPACE ONLY
SPACE ONLY			131						0.0	0.0		132			SPACE ONLY
SPACE ONLY			133		0.0	0.0						134			SPACE ONLY
SPACE ONLY SPACE ONLY			135 137				0.0	0.0	0.0	0.0		136 138			SPACE ONLY SPACE ONLY
SPACE UNLY			137						0.0	0.0		130			SPACE UNLY
LOAD	Connect	ed Loa	d De	mand F	actor	Estima	ited De	emand	NOTES	<u>ج</u> .					
LIGHTS		kVA		0.00%			.00 kVA				FRAME	SHA	II BE A	SREC	DER PANEL AIC RATING.
HEATING		kVA		0.00%			.00 kVA								ATINGS NOT ALLOWED.
COOLING		kVA		0.00%			.00 kV/								RAL, SHALL BE COPPER.
VENTILATION		kVA	-	0.00%			.00 kV/				,				S SHALL MATCH FEEDERS.
MOTORS		kVA		105.68			.58 kVA								/ITH OUTER DOOR LOCK.
KITCHEN	10.81			100.00			).81 kV						CTORY		
RECEPTACLES		5 kVA		57.82			6.98 kV							PERSO	NNEL) BRKR (250' MAX).
WATER HEATER		kVA	_	0.00%			.00 kVA				EED-TH				
MISC.		2 kVA	_	100.00			6.22 kV							NULEL	OCK-ON DEVICE. BREAKER TO BE RED
Spare	0.00	kVA	_	0.00%	0	U	.00 kVA	<b>~</b>	IU. MA		3E 100%	⁄₀	ι <b>⊏</b> <i>U</i> .		
TOTAL KVA (CONNECTED): 105.7 kVA		ΤΟΤΑΙ		R PHAS			ED)								
· · · · · · · · · · · · · · · · · · ·	20	4 A		309 A	•		290 A								
$()   \Delta   K   \Delta   D = K   \Delta K   \Delta K   D = K   \Delta K   \Delta K   D = K   \Delta K   A   D = K   \Delta K   A   A   A   A   A   A   A   A   A  $	20	- A	1	509 F	۱.	1	∠30 A		1						
TOTAL KVA (DEMAND):79.0 kVATOTAL AMP. (CONNECTED):293 A			R PH	ASE: (C			n 1250	<u>(</u> )							

3

LP1A

MSB

DP1A	MP <sup>,</sup>
RP1A	



E -

D

С

В

Α

VOLTAGE:	480/277 Wv	е				MAIN	TYPE:	MCB							MFR:
MOUNTING:	-	-					HASE:								YPE:
MAIN:							WIRE:							-	AIC: 18,000 AMPS SYMMETRICAL
LOAD SERVED	Wire Size	TRIP		POLE S		4	E	3		C	POLE S	CKT NO		Wire Size	LOAD SERVED
			1		11.8	5.1						2			
PANEL RP1B (VIA TXRP1B)	SR	70 A	3	3			12.7	0.0			3	4	100 A	SR	PANEL LP1B
			5						13.1	0.0		6			
			7		0.0	0.0					_	8			
SPARE		20 A	9	3			0.0	0.0	0.0	0.0	3	10	20 A		SPARE
			11		0.0	0.0			0.0	0.0		12			
			13		0.0	0.0	0.0	0.0				14			SPACE ONLY
SPACE ONLY			15				0.0	0.0	0.0	0.0		16			SPACE ONLY
SPACE ONLY			17		0.0	0.0			0.0	0.0		18			SPACE ONLY
SPACE ONLY			19		0.0	0.0						20			SPACE ONLY
SPACE ONLY			21				0.0	0.0				22			SPACE ONLY
			23								-	24			
			25									26			
			27									28			
			29									30			
			31									32			
			33									34			
			35								-	36			
			37									38			
			39						_			40			
			41									42			
LOAD	Connec	tod I na	d Do	mand F	actor	Fetima	tod Do	mand	NOTE	s.					
LIGHTS		kVA		125.00			.28 kVA				FRAME	сни			D PER PANEL AIC RATING.
HEATING COOLING		kVA kVA		0.00%			.00 kVA .00 kVA								ATINGS NOT ALLOWED. RAL, SHALL BE COPPER.
VENTILATION		kVA kVA		0.00%			.00 kVA .00 kVA								SHALL MATCH FEEDERS.
MOTORS		kVA		102.08			.00 kV/ .23 kV/								ITH OUTER DOOR LOCK.
KITCHEN		kVA	-	0.00%			.00 kVA								
RECEPTACLES		7 kVA		63.82			3.09 kV								
WATER HEATER		kVA		0.00%			.00 kVA		SR 5		SER				
MISC.		kVA		100.00			.20 kVA								
Spare		kVA		0.00%			.00 kVA								
TOTAL KVA (CONNECTED): 42.2 kV/	4	TOTA		PHAS	E: (CON	INECT	ED)								
TOTAL KVA (DEMAND): 30.3 kV/	A 60	A (		46 A			47 A								
TOTAL AMP. (CONNECTED): 51 A	TO	TAL PE	R PH/	ASE: (C	ONNEC	CTED @	D 125%	b)							
TOTAL AMP. (DEMAND): 36 A	71	5 A		57 A			59 A								

	LTAGE: 480 NTING: SU	RFACE	e					HASE:	3							MFR: TYPE:
	<b>MAIN:</b> 100	A	1	1				WIRE:		1		1				AIC: 35,000 AMPS SYMMETRICAL
LOAD SERVED		Wire Size	TRIP	CKT NO	POLE S	(LOAI	A D KVA)		B DAD /A)	(LOAD	C KVA)	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED
LTG-1ST FLOOR AREA C DIN	IING	10	20 A	1	1	0.9	1.6					1	2	20 A	10	LTG-GYM C120
LTG-GYM C120		10	20 A	3	1			1.9	1.7			1	4	20 A	10	LTG-AREA C
TG-GYM C120		10	20 A	5	1					1.9	1.4	1	6	20 A		SPARE
TG- DINING C140		10	20 A	7	1	1.3	0.0						8			SPACE ONLY
SPARE			20 A	9	1			0.0	0.0				10			SPACE ONLY
SPARE			20 A	11	1					0.0	0.0		12			SPACE ONLY
SPARE			20 A	13	1	0.0	0.0						14			SPACE ONLY
SPARE			20 A	15	1			0.0	0.0				16			SPACE ONLY
SPARE			20 A	17	1					0.0	0.0		18			SPACE ONLY
SPARE			20 A	19	1	0.0	0.0						20			SPACE ONLY
				21									22			
				23									24			
				25									26			
				27									28			
				29									30			
				31									32			
				33									34			
				35									36			
				37									38			
				39									40			
				41									42			
OAD		Connect	ed Loa	d De	mand F	actor	Estima	ted De	mand	NOTES	S:					
LIGHTS		10.48	3 kVA		125.00	%	13	.10 kV	Ą	1. BRE	AKER	FRAME	SHA	LL BE A	S REQ	D PER PANEL AIC RATING.
HEATING		0.00	kVA		0.00%	ó	0.	.00 kVA	١	2. SHA	LL BE	FULLY	RATE	D - SEF	RIES RA	ATINGS NOT ALLOWED.
COOLING		0.00	kVA		0.00%	6	0.	.00 kVA	١	3. ALL	BUSSI	NG, INC	CL GN	ID AND	NEUT	RAL, SHALL BE COPPER.
VENTILATION		0.00	kVA		0.00%	ó	0.	.00 kVA	١	4. ALL	INCOM	IING PA	NEL	& BRKF	RLUGS	SHALL MATCH FEEDERS.
MOTORS		0.00	kVA		0.00%	ó	0.	.00 kVA	١	5. PRO	VIDE H	INGED	DOC	R-IN-D	OOR W	/ITH OUTER DOOR LOCK.
KITCHEN		0.00	kVA		0.00%	ó	0.	.00 kVA	۱	6. PRO		/ETAL	DIRE	CTORY	FRAM	Ξ.
RECEPTACLES		0.00	kVA		0.00%	ó	0.	.00 kVA	۱							
WATER HEATER			kVA		0.00%	ó	0.	.00 kVA	۱							
MISC.		0.00		1	0.00%			.00 kVA								
Spare		0.00			0.00%			.00 kVA								
TOTAL KVA (CONNECTED):	10.7 kVA				PHAS		NECT									
TOTAL KVA (DEMAND):	13.3 kVA		A		13 A			12 A								
TOTAL AMP. (CONNECTED):			TAL PE	R PH			CTED @	-	)							
TOTAL AMP. (DEMAND):	16 A	17	' A		17 A			15 A								

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						F	PAN	EL:	LP	1B						
	TAGE: 480 NTING: SU MAIN: 100	RFACE	Э					TYPE: HASE: WIRE:	3							MFR: YPE: AIC: 18,000 AMPS SYMMETRICAL
LOAD SERVED		Wire Size	TRIP		POLE	(LOAD	Α	(LC	B DAD VA)	(LOAD	C KVA)	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED
_TG-1ST FLOOR AREA B		10	20 A	1	1	2.6	2.5					1	2	20 A	10	LTG-1ST FLOOR AREA B
SPARE			20 A	3	1			0.0	0.0				4			SPACE ONLY
SPARE			20 A	5	1					0.0	0.0		6			SPACE ONLY
SPARE			20 A	7	1	0.0	0.0						8			SPACE ONLY
PARE			20 A	9	1			0.0	0.0				10			SPACE ONLY
SPARE			20 A	11	1					0.0	0.0		12			SPACE ONLY
SPACE ONLY				13		0.0	0.0						14			SPACE ONLY
SPACE ONLY				15				0.0	0.0				16			SPACE ONLY
SPACE ONLY				17						0.0	0.0		18			SPACE ONLY
				19									20			
				21									22			
				23									24			
				25									26			
				27									28			
				29									30			
				31									32			
				33									34			
				35									36			
				37									38			
				39									40			
				41									42			
OAD		Connect	ed Loa	d De	mand F	actor	Fstima	ted De	mand	NOTES	·					
IGHTS		5.02			125.00			28 kV					SHA		SREO	D PER PANEL AIC RATING.
HEATING		0.00			0.00%			20 kV								ATINGS NOT ALLOWED.
COOLING		0.00						00 kV								
					0.00%							-				RAL, SHALL BE COPPER.
/ENTILATION MOTORS		0.00			0.00%			00 kV/ 00 kV/								ITH OUTER DOOR LOCK.
KITCHEN		0.00			0.00%			00 kV/		5. PRO 6. PRO						
RECEPTACLES		0.00		_	0.009			00 kV		J. FAU						
WATER HEATER		0.00		_	0.009			00 kV								
MISC.		0.00			0.007			00 kV								
Spare		0.00			0.007			00 kV								
οραιο		0.00			0.007	•	0.	55 1. 17	•							
TOTAL KVA (CONNECTED):	5.1 kVA		TOTAL	PEF	R PHASI	E: (CON	INECTE	ED)								
TOTAL KVA (DEMAND):	6.3 kVA	18	A		0 A			0 A								
, ,	6 A	то	TAL PEI	R PH	ASE: (C	ONNEC	TED @	0 125%	6)							
TOTAL AMP. (CONNECTED):	071															

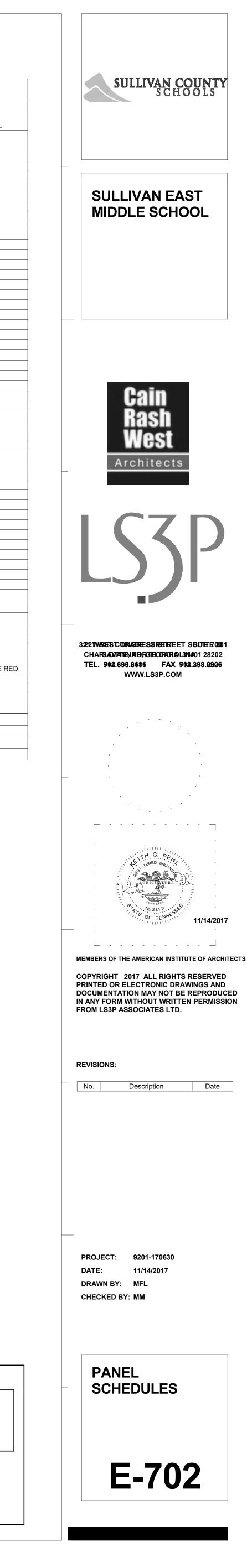
					F	PAN	EL:	MP	1C						
VOLTAGE: 480 MOUNTING: SUI MAIN: 150	RFACE	9				P	TYPE: HASE: WIRE:	3							MFR: YPE: AIC: 35,000 AMPS SYMMETRICAL
LOAD SERVED	Wire Size	TRIP	CKT NO	POLE S	(LOAE	A ) KVA)		B DAD /A)	(LOAE	C ) KVA)	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED
EUH-1	12	20 A	1 3 5	3	1.1	0.9	1.1	0.9	1.1	0.9	3	2 4 6	20 A	12	PUMP P-6
PUMP P-5	12	20 A	7 9 11	3	0.9	2.0	0.9	2.0	0.9	2.0	3	8 10 12	20 A	12	PUMP P-4
PUMP P-3	12	20 A	13 15 17	3	2.0	2.0	2.0	2.0	2.0	2.0	3	14 16 18	20 A	12	PUMP P-2
PUMP P-1	12	20 A	19 21 23	3	2.0	0.7	2.0	0.7	2.0	0.7	3	20 22 24	20 A	12	EDH-1
RTU - 1	10	30 A	25 27 29	3	0.0	0.7	0.0	0.7	0.0	0.7	3	26 28 30	20 A	12	FAN F -1
FAN F - 2	12	20 A	31 33 35	3	0.7	0.0	0.7	0.0	0.7	0.0	3	32 34 36	20 A		SPARE
SPACE ONLY			37		0.0	0.0						38			SPACE ONLY
SPACE ONLY			39				0.0	0.0				40			SPACE ONLY
SPACE ONLY			41						0.0	0.0		42			SPACE ONLY
LOAD	Connect	ed Loa	d De	mand F	actor	Estima	ted De	mand	NOTES	S:					
LIGHTS	0.00	kVA		0.00%	6	0	.00 kVA	١	1. BRE	AKER	FRAME	E SHA	LL BE A	S REQ	D PER PANEL AIC RATING.
HEATING	0.00	kVA		0.00%	6	0.	.00 kVA	۱.	2. SHA	LL BE	FULLY	RATE	D - SEF	RIES RA	ATINGS NOT ALLOWED.
COOLING VENTILATION	0.00 3.96	kVA		0.00%	%	3.	.00 kVA .96 kVA	٨	4. ALL	INCOM	IING P	ANEL	& BRKF	R LUGS	RAL, SHALL BE COPPER. SHALL MATCH FEEDERS.
MOTORS KITCHEN	32.70 0.00	) kVA kVA		104.59 0.00%			.20 kV. .00 kVA		5. PRC 6. PRC						/ITH OUTER DOOR LOCK. E.
RECEPTACLES	0.00	kVA		0.00%	6	0	.00 kVA	۸							
WATER HEATER	0.00			0.00%			.00 kVA								
MISC.	0.00			0.00%			.00 kVA								
Spare	0.00	kVA	-	0.00%	ó	0.	.00 kVA	۱							
TOTAL KVA (CONNECTED): 38.6 kVA				PHASI		NECT									
TOTAL KVA (DEMAND): 40.1 kVA		βA		46 A			46 A								
TOTAL AMP. (CONNECTED): 46 A	TO	TAL PE	R PH/	ASE: (C	ONNE	CTED @	) 125%	»)							
TOTAL AMP. (DEMAND): 48 A	58	βA		58 A			58 A								

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  | F  | PAN  | EL:  
  | RP   | 1B  | | | | | | |
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| ING: SUR | RFACE   
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  |  | P  | HASE:  
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  |  | MFR:<br>YPE:<br>AIC: 10,000 AMPS SYMMETRICAL   |  |  |  |  |  |  |  
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  |  | СКТ  |  
  |  |  |  
  |  |   | C   
  | POLE  | СКТ   |  
  | Wire   |  |  |  |  |  |  |  |  
  |
|          | Size  
  | TRIP   | NO   | S  
  |  |  | | | | | | |
  |  |   |   
  | S   |   |  
  | Size   | LOAD SERVED  |  |  |  |  |  |  |  
  |
|          | 10  
  | 20 A   | 1  | 1  
  | 1.3  | 1.1  |  
  |  |   |   
  | 1   | 2   | 20 A   
  | 10   | REC - TOILET B118  |  |  |  |  |  |  |  
  |
|          |   
  |  |  | · ·  
  |  |  | 1.2  
  | 1.2  | 0.5   | 0.0   
  |   | -   |  
  | -  | EWCs - CORR B100B (NOTE 8)   |  |  |  |  |  |  |  
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|          |   
  |  |  | · ·  
  | 0.2  | 0.2  |  
  |  | 0.5   | 0.2   
  |   | -   |  
  |  | COPIER B120 (NOTE 8)<br>REFRIGERATOR B120 (NOTE 8)   |  |  |  |  |  |  |  
  |
|          |   
  |  |  | · ·  
  | 0.2  | 0.2  | 10   
  | 10   |   | | | | | | |
  | · · ·   | -   |  
  |  | HAND DRYER - GIRLS B116  |  |  |  |  |  |  |  
  |
|          | 10  
  | 20 A   | 11   | 1  
  |  |  |  
  |  | 1.0   | 1.0   
  | 1   | 12  | 20 A   
  | 10   | HAND DRYER - BOYS B117   |  |  |  |  |  |  |  
  |
|          | 10  
  | 20 A   | 13   | 1  
  | 0.2  | 0.4  |  
  |  |   |   
  | 1   | 14  | 20 A   
  | 10   | REC - WORKROOM B108  |  |  |  |  |  |  |  
  |
| 8)       | 10  
  | 20 A   | 15   | 1  
  |  |  | 0.2  
  | 0.2  |   |   
  | 1   | 16  | 20 A   
  | 10   | REC - WORKROOM B108  |  |  |  |  |  |  |  
  |
|          | 10  
  | 20 A   | 17   | 1  
  |  |  |  
  |  | 0.2   | 0.9   
  | 1   | 18  | 20 A   
  | 10   | REC - B110   |  |  |  |  |  |  |  
  |
|          |   
  |  |  | | | | | | |
  | 0.9  | 1.0  |  
  |  |   |   
  | 1   |   |  
  | 10   | REC - B101   |  |  |  |  |  |  |  
  |
|          |   
  |  |  |  
  |  |  | 0.9  
  | 0.9  | 0.0   | 0.7   
  |   | -   |  
  |  | REC - B104   |  |  |  |  |  |  |  
  |
|          |   
  |  |  |  
  | 1.0  | 0.5  |  
  |  | 0.9   | 0.7   
  |   | _   |  
  |  | REC - B105<br>REC - CONF B102  |  |  |  |  |  |  |  
  |
|          |   
  |  |  |  
  | 1.0  | 0.5  | 0.7  
  | 0.2  |   | | | | | | |
  |   | _   |  
  |  | EWH-2  |  |  |  |  |  |  |  
  |
|          | -   
  |  |  | 1  
  |  |  | 0.1  
  | 0.2  | 0.7   | 0.7   
  | 1   | -   |  
  |  | REC - 6TH MATH B125 - CRT#1  |  |  |  |  |  |  |  
  |
|          | 10  
  | 20 A   | 31   | 1  
  | 0.4  | 0.7  |  
  |  |   | •   
  | 1   | 32  | 20 A   
  | 10   | REC - 6TH MATH B125 - CRT#3  |  |  |  |  |  |  |  
  |
|          | 10  
  | 20 A   | 33   | 1  
  |  |  | 0.7  
  | 0.4  |   |   
  | 1   | 34  | 20 A   
  | 10   | REC - 6TH MATH B126 - CRT#2  |  |  |  |  |  |  |  
  |
|          | 10  
  | 20 A   | 35   | 1  
  |  |  |  
  |  | 0.7   | 0.7   
  | 1   | 36  | 20 A   
  | 10   | REC - 6TH MATH B124 - CRT#1  |  |  |  |  |  |  |  
  |
|          | 10  
  | 20 A   | 37   | 1  
  | 0.4  | 0.7  |  
  |  |   |   
  | 1   | 38  | 20 A   
  | 10   | REC - 6TH MATH B124 - CRT#3  |  |  |  |  |  |  |  
  |
|          | 10  
  |  | 39   | 1  
  |  |  | 0.7  
  | 0.4  |   | | | | | | |
  | 1   | 40  |  
  | 10   | REC - 6TH MATH B124 - CRT#2  |  |  |  |  |  |  |  
  |
|          |   
  |  |  |  
  |  |  |  
  |  | 0.7   | 0.7   
  | 1   | -   |  
  | -  | REC - 6TH MATH B121 - CRT#1  |  |  |  |  |  |  |  
  |
|          |   
  |  |  |  
  | 0.4  | 0.7  | 0.7  
  | 0.4  |   | | | | | | |
  | 1   |   |  
  | -  | REC - 6TH MATH B121 - CRT#3<br>REC - 6TH MATH B122 - CRT#2   |  |  |  |  |  |  |  
  |
|          |   
  |  |  |  
  |  |  | 0.7  
  | 0.4  | 0.7   | 1.0   
  |   |   |  
  |  | REC - ISS B113   |  |  |  |  |  |  |  
  |
|          | -   
  |  |  | 1  
  | 0.5  | 0.5  |  
  |  | 0.7   | 1.0   
  | 1   | -   |  
  |  | REC - ISS B113   |  |  |  |  |  |  |  
  |
|          | 12  
  |  | 51   | 1  
  | 0.0  | 0.0  | 0.4  
  | 0.4  |   | | | | | | |
  | 1   |   |  
  | 10   | REC - TV - B101  |  |  |  |  |  |  |  
  |
|          | 12  
  | 20 A   | 53   | 1  
  |  |  |  
  |  | 0.2   | 0.2   
  | 1   | 54  | 20 A   
  | 12   | REC - ELEC B120C   |  |  |  |  |  |  |  
  |
|          | 12  
  | 20 A   | 55   | 1  
  | 0.2  | 0.0  |  
  |  |   |   
  | 1   | 56  | 20 A   
  |  | SPARE  |  |  |  |  |  |  |  
  |
|          |   
  | 20 A   |  | 1  
  |  |  | 0.2  
  | 0.0  |   |   
  | 1   | -   | 20 A   
  |  | SPARE  |  |  |  |  |  |  |  
  |
|          |   
  |  |  |  
  | 0.0  | 0.0  |  
  |  | 0.2   | 0.0   
  | 1   | _   |  
  |  | SPARE  |  |  |  |  |  |  |  
  |
|          |   
  |  |  |  
  | 0.2  | 0.0  | 1.0  
  | 0.0  |   | | | | | | |
  | 1   | _   |  
  |  | SPARE<br>SPARE   |  |  |  |  |  |  |  
  |
|          |   
  |  |  |  
  |  |  | 1.2  
  | 0.0  | 11  | 0.0   
  | 1   | _   |  
  |  | SPARE  |  |  |  |  |  |  |  
  |
|          |   
  |  |  | 1  
  | 0.5  | 0.0  |  
  |  |   | 0.0   
  | 1   | _   |  
  |  | SPARE  |  |  |  |  |  |  |  
  |
|          |   
  | 20 A   | 69   | 1  
  | 0.0  |  | 0.0  
  | 0.0  |   |   
  | 1   | 70  | 20 A   
  |  | SPARE  |  |  |  |  |  |  |  
  |
|          |   
  |  | 71   |  
  |  |  |  
  |  | 0.0   | 0.0   
  |   | 72  |  
  |  | SPACE ONLY   |  |  |  |  |  |  |  
  |
|          |   
  |  | 73   | | | | | | |
  | 0.0  | 0.0  |  
  |  |   |   
  |   | 74  |  
  |  | SPACE ONLY   |  |  |  |  |  |  |  
  |
|          |   
  |  | 75   |  
  |  |  | 0.0  
  | 0.0  |   | | | | | | |
  |   | 76  |  
  |  | SPACE ONLY   |  |  |  |  |  |  |  
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  |  | 0.0   | 0.0   
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  |  | SPACE ONLY   |  |  |  |  |  |  |  
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  | 0.0  | 0.0  | 0.0  
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  | 0.0  | 0.0   | 0.0   
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  |  | SPACE ONLY<br>SPACE ONLY   |  |  |  |  |  |  |  
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  |  | 0.0   | 0.0   
  |   | 04  |  
  |  | SFACE ONLY   |  |  |  |  |  |  |  
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SURFACE         IAIN:       150 A         Wire       TRIP       CKT         10       20 A       1         10       20 A       3         12       20 A       5         12       20 A       7         10       20 A       9         112       20 A       9         10       20 A       11         10       20 A       13         8)       10       20 A       15         10       20 A       10       20 A       17         10       20 A       10       20 A       17         10       20 A       10       20 A       21         10       20 A       10       20 A       23         10       20 A       10       20 A       33         10       20 A       31       33       31         10       20 A       31       31       31         10       20 A       31       31       31         10       20 A       41       32       31         10       20 A       43       31       32         10<td>NIRG: SURFACE         Mire       RIP       CKT       POLE         10       20 A       1       1         10       20 A       3       1   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cols<="" td=""><td>NR: SURFACE       CKT<br/>RIN: SOA       POLE<br/>VIE       PLASE: 3         Wire<br/>Size       TRIP<br/>TRIP       NO       S      </td><td>AGE         120/20         BY         &lt;</td><td>MAIN TYPE: NCH<br/>PHASE: 3           VINE: SUPRACE<br/>PHASE: 3           VINE: 5           VINE: 5</td><td>MAIN TYPE: NCB:<br/>PHASE: 3         ING: SURFACE       PHASE: 3         VINE: 100         Wire       CKT       PLAE       <th c<="" td=""><td>MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN 190A         MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN: 190A         WIRE       PHASE: 3<br/>MIN: 190A         MIN: 190A       MIN: 2004         MIN: 190A       MIN: 2004       PLASE: 3<br/>MIN: 190A      MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004         10       2004       1       1       2       2       NIN: 170PE: MCB         MIN: 2004       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cols<="" td=""><td>NR: SURFACE       CKT<br/>RIN: SOA       POLE<br/>VIE       PLASE: 3         Wire<br/>Size       TRIP<br/>TRIP       NO       S      </td><td>AGE         120/20         BY         &lt;</td><td>MAIN TYPE: NCH<br/>PHASE: 3           VINE: SUPRACE<br/>PHASE: 3           VINE: 5           VINE: 5</td><td>MAIN TYPE: NCB:<br/>PHASE: 3         ING: SURFACE       PHASE: 3         VINE: 100         Wire       CKT       PLAE       <th c<="" td=""><td>MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN 190A         MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN: 190A         WIRE       PHASE: 3<br/>MIN: 190A         MIN: 190A       MIN: 2004         MIN: 190A       MIN: 2004       PLASE: 3<br/>MIN: 190A      MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004         10       2004       1       1       2       2       NIN: 170PE: MCB         MIN: 2004       1       1       2       2         10       2004       1       1       1       2       2004         10       20       2       2       2       2       2       2       2       2       2       2       2       2       <th <="" colspan="4" td=""><td>AGE:       120208 WP       MUR       TEND:       SURFACE       PLASE:       3         IND:       SURFACE       TENP       OCT       POLE       PLASE:       3       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       SURFACE</td></th></td></th></td></th></td></th></td> | NIRG: SURFACE         Mire       RIP       CKT       POLE         10       20 A       1       1         10       20 A       3       1         11       20 A       3       1         112       20 A       5       1         112       20 A       7       1         110       20 A       11       1         110       20 A       13       1         10       20 A       15       1         10       20 A       17       1         10  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cols<="" td=""><td>NR: SURFACE       CKT<br/>RIN: SOA       POLE<br/>VIE       PLASE: 3         Wire<br/>Size       TRIP<br/>TRIP       NO       S      </td><td>AGE         120/20         BY         &lt;</td><td>MAIN TYPE: NCH<br/>PHASE: 3           VINE: SUPRACE<br/>PHASE: 3           VINE: 5           VINE: 5</td><td>MAIN TYPE: NCB:<br/>PHASE: 3         ING: SURFACE       PHASE: 3         VINE: 100         Wire       CKT       PLAE       <th c<="" td=""><td>MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN 190A         MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN: 190A         WIRE       PHASE: 3<br/>MIN: 190A         MIN: 190A       MIN: 2004         MIN: 190A       MIN: 2004       PLASE: 3<br/>MIN: 190A      MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004         10       2004       1       1       2       2       NIN: 170PE: MCB         MIN: 2004       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<td><th cols<="" td=""><td>NR: SURFACE       CKT<br/>RIN: SOA       POLE<br/>VIE       PLASE: 3         Wire<br/>Size       TRIP<br/>TRIP       NO       S      </td><td>AGE         120/20         BY         &lt;</td><td>MAIN TYPE: NCH<br/>PHASE: 3           VINE: SUPRACE<br/>PHASE: 3           VINE: 5           VINE: 5</td><td>MAIN TYPE: NCB:<br/>PHASE: 3         ING: SURFACE       PHASE: 3         VINE: 100         Wire       CKT       PLAE       <th c<="" td=""><td>MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN 190A         MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN: 190A         WIRE       PHASE: 3<br/>MIN: 190A         MIN: 190A       MIN: 2004         MIN: 190A       MIN: 2004       PLASE: 3<br/>MIN: 190A      MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004         10       2004       1       1       2       2       NIN: 170PE: MCB         MIN: 2004       1       1       2       2         10       2004       1       1       1       2       2004         10       20       2       2       2       2       2       2       2       2       2       2       2       2       <th <="" colspan="4" td=""><td>AGE:       120208 WP       MUR       TEND:       SURFACE       PLASE:       3         IND:       SURFACE       TENP       OCT       POLE       PLASE:       3       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       SURFACE</td></th></td></th></td></th></td> | AGE: 120/208 WFWire<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br>PHASE:<br> | <th cols<="" td=""><td>NR: SURFACE       CKT<br/>RIN: SOA       POLE<br/>VIE       PLASE: 3         Wire<br/>Size       TRIP<br/>TRIP       NO       S      </td><td>AGE         120/20         BY         &lt;</td><td>MAIN TYPE: NCH<br/>PHASE: 3           VINE: SUPRACE<br/>PHASE: 3           VINE: 5           VINE: 5</td><td>MAIN TYPE: NCB:<br/>PHASE: 3         ING: SURFACE       PHASE: 3         VINE: 100         Wire       CKT       PLAE       <th c<="" td=""><td>MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN 190A         MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN: 190A         WIRE       PHASE: 3<br/>MIN: 190A         MIN: 190A       MIN: 2004         MIN: 190A       MIN: 2004       PLASE: 3<br/>MIN: 190A      MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004         10       2004       1       1       2       2       NIN: 170PE: MCB         MIN: 2004       1       1       2       2         10       2004       1       1       1       2       2004         10       20       2       2       2       2       2       2       2       2       2       2       2       2       <th <="" colspan="4" td=""><td>AGE:       120208 WP       MUR       TEND:       SURFACE       PLASE:       3         IND:       SURFACE       TENP       OCT       POLE       PLASE:       3       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       SURFACE</td></th></td></th></td></th> | <td>NR: SURFACE       CKT<br/>RIN: SOA       POLE<br/>VIE       PLASE: 3         Wire<br/>Size       TRIP<br/>TRIP       NO       S      </td> <td>AGE         120/20         BY         &lt;</td> <td>MAIN TYPE: NCH<br/>PHASE: 3           VINE: SUPRACE<br/>PHASE: 3           VINE: 5           VINE: 5</td> <td>MAIN TYPE: NCB:<br/>PHASE: 3         ING: SURFACE       PHASE: 3         VINE: 100         Wire       CKT       PLAE       <th c<="" td=""><td>MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN 190A         MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN: 190A         WIRE       PHASE: 3<br/>MIN: 190A         MIN: 190A       MIN: 2004         MIN: 190A       MIN: 2004       PLASE: 3<br/>MIN: 190A      MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004         10       2004       1       1       2       2       NIN: 170PE: MCB         MIN: 2004       1       1       2       2         10       2004       1       1       1       2       2004         10       20       2       2       2       2       2       2       2       2       2       2       2       2       <th <="" colspan="4" td=""><td>AGE:       120208 WP       MUR       TEND:       SURFACE       PLASE:       3         IND:       SURFACE       TENP       OCT       POLE       PLASE:       3       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       SURFACE</td></th></td></th></td> | NR: SURFACE       CKT<br>RIN: SOA       POLE<br>VIE       PLASE: 3         Wire<br>Size       TRIP<br>TRIP       NO       S | AGE         120/20         BY         < | MAIN TYPE: NCH<br>PHASE: 3           VINE: SUPRACE<br>PHASE: 3           VINE: 5           VINE: 5 | MAIN TYPE: NCB:<br>PHASE: 3         ING: SURFACE       PHASE: 3         VINE: 100         Wire       CKT       PLAE       PLAE <th c<="" td=""><td>MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN 190A         MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN: 190A         WIRE       PHASE: 3<br/>MIN: 190A         MIN: 190A       MIN: 2004         MIN: 190A       MIN: 2004       PLASE: 3<br/>MIN: 190A      MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004         10       2004       1       1       2       2       NIN: 170PE: MCB         MIN: 2004       1       1       2       2         10       2004       1       1       1       2       2004         10       20       2       2       2       2       2       2       2       2       2       2       2       2       <th <="" colspan="4" td=""><td>AGE:       120208 WP       MUR       TEND:       SURFACE       PLASE:       3         IND:       SURFACE       TENP       OCT       POLE       PLASE:       3       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       SURFACE</td></th></td></th> | <td>MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN 190A         MAIN TYPE: MCB<br/>PHASE: 3<br/>MAIN: 190A         WIRE       PHASE: 3<br/>MIN: 190A         MIN: 190A       MIN: 2004         MIN: 190A       MIN: 2004       PLASE: 3<br/>MIN: 190A      MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       MIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004       PLASE: 3<br/>MIN: 190A         MIN: 2004       NIN: 2004         10       2004       1       1       2       2       NIN: 170PE: MCB         MIN: 2004       1       1       2       2         10       2004       1       1       1       2       2004         10       20       2       2       2       2       2       2       2       2       2       2       2       2       <th <="" colspan="4" td=""><td>AGE:       120208 WP       MUR       TEND:       SURFACE       PLASE:       3         IND:       SURFACE       TENP       OCT       POLE       PLASE:       3       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       SURFACE</td></th></td> | MAIN TYPE: MCB<br>PHASE: 3<br>MAIN 190A         MAIN TYPE: MCB<br>PHASE: 3<br>MAIN: 190A         WIRE       PHASE: 3<br>MIN: 190A         MIN: 190A       MIN: 2004         MIN: 190A       MIN: 2004       PLASE: 3<br>MIN: 190A      MIN: 2004       PLASE: 3<br>MIN: 190A         MIN: 2004       MIN: 2004       PLASE: 3<br>MIN: 190A         MIN: 2004       NIN: 2004       PLASE: 3<br>MIN: 190A         MIN: 2004       NIN: 2004         10       2004       1       1       2       2       NIN: 170PE: MCB         MIN: 2004       1       1       2       2         10       2004       1       1       1       2       2004         10       20       2       2       2       2       2       2       2       2       2       2       2       2 <th <="" colspan="4" td=""><td>AGE:       120208 WP       MUR       TEND:       SURFACE       PLASE:       3         IND:       SURFACE       TENP       OCT       POLE       PLASE:       3       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       SURFACE</td></th> | <td>AGE:       120208 WP       MUR       TEND:       SURFACE       PLASE:       3         IND:       SURFACE       TENP       OCT       POLE       PLASE:       3       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       SURFACE</td> |  |  |  | AGE:       120208 WP       MUR       TEND:       SURFACE       PLASE:       3         IND:       SURFACE       TENP       OCT       POLE       PLASE:       3       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       WIRE:       SURFACE       SURFACE |

DP1B	LP1B	RP1B
LP1C	MP1C	



							PAN	EL:	RP	1C						
	LTAGE: 120 INTING: SU MAIN: 150	RFACE	9				P	TYPE: HASE: WIRE:	3							MFR: TYPE: AIC: 10,000 AMPS SYMMETRIC
		Wire		СКТ	POLE		A		3	(	2	POLE	СКТ		Wire	
LOAD SERVED		Size	TRIP	NO	S							S	NO		Size	LOAD SERVED
<b>GYM - BASKETBALL MOTOR</b>		8	20 A	1	1	0.5	0.7					1	2	20 A	10	REC - ROOF
HAND DRYER - C145		12	20 A	3	1			1.0	0.7			1	4	20 A	8	REC - GYM
REC - DINING		10	20 A	5	1					1.1	0.2	1	6	20 A	8	GYM - BLEACHERS MOTOR
SCOREBOARD POWER		10	20 A	7	1	0.2	0.2					1	8	20 A	8	SCOREBOARD POWER
<b>GYM - BASKETBALL MOTOR</b>		8	20 A	9	1			0.5	0.5			1	10	20 A	8	GYM - BASKETBALL MOTOR
<b>GYM - BASKETBALL MOTOR</b>		8	20 A	11	1					0.5	0.5	1	12	20 A	8	GYM - BASKETBALL MOTOR
REC - GIRLS PE C131		6	20 A	13	1	0.7	0.6					1	14	20 A	6	EWC - (NOTE 9)
REC - COACH C128		6	20 A	15	1			1.0	1.1			1	16	20 A	6	EXTERIOR REC
HAND DRYER - C130		6	20 A	17	1					1.0	1.1	1	18	20 A	4	EXTERIOR REC
				19		3.6	0.5					1	20	20 A	12	WH-1
LAUNDRY C127 -DRYER		10	20 A	21	2			3.6	0.5			1	22	20 A	12	WH-1
FAN F-3		10	20 A	23	1					0.7	0.1	1	24	20 A	12	RCP2
				25			0.7					1	26	20 A	12	RCP1
WH-2		12	20 A	27	1			0.5	0.2			1	28	20 A	8	GYM - BLEACHERS MOTOR
<b>GYM - BASKETBALL MOTOR</b>		8	20 A	29	1					0.5	1.6	1	30	20 A	12	PUMP P-8
REC - MECH M101		12	20 A	31	1	0.4	0.2					1	32	20 A	12	REC - ELEC E101
FIRE ALARM CIRCUIT (NOTE	7)	10	20 A	33	1			0.2	0.5			1	34	20 A	10	FIRE - BACKFLOW
PUMP P-7	,	12	20 A	35	1					1.6	0.5	1	36	20 A	10	BACKFLOW - DOMESTIC
SPARE			20 A	37	1	0.0	0.0					1	38	20 A		SPARE
SPARE			20 A	39	1			0.0	0.0			1	40	20 A		SPARE
SPARE			20 A	41	1					0.0	0.0	1	42	20 A		SPARE
SPARE			20 A	43	1	0.0	0.0			0.0	0.0	1	44	20 A		SPARE
SPARE			20 A	45	1	0.0	0.0	0.0	0.0			1	46	20 A		SPARE
SPACE ONLY				47				0.0	0.0	0.0	0.2	1	48	20 A	12	SOLENOID SHUTDOWN POWE
SPACE ONLY				49		0.0	0.7					1	50	20 A	12	FAN F-6
SPACE ONLY				51		0.0	0.1	0.0	0.0				52			SPACE ONLY
SPACE ONLY				53				0.0	0.0	0.0	0.0		54			SPACE ONLY
LOAD		Connect	ed Loa	d De	mand F	actor	Estima	ated De	mand	NOTES	S:					
LIGHTS		0.00	kVA		0.00%	6	0.	.00 kVA	۱.	1. BRE	AKER	FRAME	SHA	LL BE A	S REQ	D PER PANEL AIC RATING.
HEATING		0.00	kVA		0.00%	6	0.	.00 kVA	۱.	2. SHA	LL BE	FULLY	RATE	D - SEF	RIES RA	ATINGS NOT ALLOWED.
COOLING		0.00	kVA		0.00%	6	0.	.00 kVA	١	3. ALL	BUSSI	NG, INC	L GN	ID AND	NEUT	RAL, SHALL BE COPPER.
VENTILATION		1.34	kVA		100.00	1%	1.	.34 kVA	١	4. ALL	INCOM	IING PA	NEL	& BRKF	RLUGS	SHALL MATCH FEEDERS.
MOTORS		3.83	kVA		110.18	8%	4.	.22 kVA	۱	5. PRC	VIDE H	HINGED	DOC	R-IN-D	OOR W	/ITH OUTER DOOR LOCK.
KITCHEN		0.00	kVA		0.00%	6	0.	.00 kVA	١	6. PRC		IETAL	DIRE	CTORY	FRAME	Ε.
RECEPTACLES		11.47	′ kVA		93.58	%	10	).74 kV	4	7. PRC	VIDE E	BREAKE	RW	ITH HAI	NDLE L	OCK-ON DEVICE.
WATER HEATER		1.50	kVA		100.00	%	1.	.50 kVA	١	8. PRC	VIDE (	CLASS I	B GFI	(30mA-	EQUIP	MENT) BRKR.
MISC.		9.95	kVA		100.00	1%	9.	.95 kVA	١	9. PRC	VIDE (	CLASS /	A GFI	(6mA-F	PERSO	NNEL) BRKR (250' MAX).
Spare		0.00	kVA		0.00%	6	0.	.00 kVA	۱					-		
	27 A 14/4		TOTA													
TOTAL KVA (CONNECTED): TOTAL KVA (DEMAND):	27.4 KVA 27.1 kVA	70			83 A	•	NECT	ED) 79 A								
TOTAL AMP. (CONNECTED):				R PH			CTED @		)							
$1 \cdot \cdot$		10							1	1						

С

В

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PANEL: MP1CA MAIN TYPE: MLO VOLTAGE: 480/277 Wye MFR: MOUNTING: SURFACE **PHASE:** 3 TYPE: MAIN: 200 A **WIRE:** 4 AIC: 18,000 AMPS SYMMETRICAL В IP NO S (LOAD KVA) (LOAD KVA) C (LOAD KVA) POLE CKT Wire S NO TRIP Size Α Wire LOAD SERVED LOAD SERVED Size TRIP NO S 1.3 3.7 | 1 | 
 1.3
 3.7

 1.3
 3.7

 1.3
 3.7

 1.3
 3.7
 12 20 A 3 3 ERV-1 3 4 20 A 10 AHU-5 S 5 6 1.3 5.5 
 1.3
 5.5

 1.3
 5.5
 12 20 A 9 3 AHU-5 R 3 10 30 A 8 AHU-6 S 1.3 5.5 11 12 2.5 3.7 14 16 20 A 10 AHU-4 S AHU-6 R 18 20 
 12
 20 A
 21
 3
 1.0
 0.0

 12
 20 A
 21
 3
 1.8
 3.7

 23
 1.3
 0.0
 1.8
 3.7
 - ---AHU-4 R 3 22 20 A 10 AHU-3 S 20 A 2. 23 25 1.8 3.7 24 1.3 0.0 26 12 20 A 27 3 1.3 0.0 AHU-3 R 3 28 20 A -- SPARE SPACE ONLY SPARE SPARE SPACE ONLY SPARE SPACE ONLY -- 20 A 37 1 0.0 0.0 -- 38 SPARE SPACE ONLY SPARE -- 20 A 39 1 0.0 0.0 -- 40 --SPACE ONLY -- 20 A 41 1 0.0 0.0 -- 42 -- -- SPACE ONLY SPARE LOAD Connected Load Demand Factor Estimated Demand NOTES: LIGHTS 0.00 kVA 0.00% 0.00 kVA 1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING. HEATING 0.00% 0.00 kVA 2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED. 0.00 kVA COOLING 0.00 kVA 0.00% 0.00 kVA 3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER. VENTILATION 0.00 kVA 0.00% 0.00 kVA 4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS. MOTORS 5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK. 0.00 kVA 0.00% 0.00 kVA KITCHEN 0.00 kVA 0.00% 0.00 kVA 6. PROVIDE METAL DIRECTORY FRAME. RECEPTACLES 0.00 kVA 0.00% 0.00 kVA WATER HEATER 0.00 kVA 0.00% 0.00 kVA 0.00 kVA 0.00% 0.00 kVA MISC. Spare 0.00 kVA 0.00% 0.00 kVA TOTAL PER PHASE: (CONNECTED) TOTAL KVA (CONNECTED): 74.3 kVA TOTAL KVA (DEMAND): 74.3 kVA 89 A 89 A 89 A TOTAL AMP. (CONNECTED): 89 A TOTAL PER PHASE: (CONNECTED @ 125%) 112 A 112 A TOTAL AMP. (DEMAND): 89 A 112 A

	.TAGE: 480 NTING: SU MAIN: 250	RFACE	e	1			P	TYPE: HASE: WIRE:	3							MFR: TYPE: AIC: 18,000 AMPS SYMMETRICAL
LOAD SERVED		Wire Size	TRIP		POLE S		A	1	В	(	0	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED
PANEL LP1CA		SR	100 A	1 3 5	3	3.5	24.8	0.4	24.8	0.0	24.8	3	2 4 6	200 A	SR	PANEL MP1CA
PANEL RP1CA (VIA TXRP1CA	A)	SR	125 A	7 9 11	3	15.4	0.0	15.6	0.0	14.8	0.0	3	8 10 12	20 A		SPARE
SPACE ONLY				13		0.0	0.0						14			SPACE ONLY
SPACE ONLY				15				0.0	0.0				16			SPACE ONLY
SPACE ONLY				17						0.0	0.0		18			SPACE ONLY
SPACE ONLY				19		0.0	0.0						20			SPACE ONLY
SPACE ONLY				21				0.0	0.0				22			SPACE ONLY
SPACE ONLY				23						0.0	0.0		24			SPACE ONLY
	25												26			
				27									28			
				29									30			
				31									32			
				33									34			
				35									36			
				37									38			
				39									40			
				41									42			
LOAD		Connect		d Do	mand E	actor	Ectima	tod Do	mand	NOTES	2.					
													0114		0.050	
LIGHTS			kVA	_	125.00			.37 kVA								D PER PANEL AIC RATING.
HEATING			kVA	_	0.00%			.00 kVA								ATINGS NOT ALLOWED.
COOLING			kVA		0.00%			.00 kV/								RAL, SHALL BE COPPER.
VENTILATION			kVA	_	100.00			.60 kVA								SHALL MATCH FEEDERS.
MOTORS			kVA	_	125.00			.81 kVA								/ITH OUTER DOOR LOCK.
KITCHEN			kVA	_	0.00%			.00 kVA				/ETAL [	DIRE	CTORY	FRAME	Ξ.
RECEPTACLES		36.49		_	63.70% 0.00%			3.25 kV		SR S	SEE RIS	SER				
								.00 kVA								
1ISC. 7.21 kVA					100.00			.21 kVA								
are 0.00 kVA 0.00					0.00%	)	0.	.00 kVA	4							
TOTAL KVA (CONNECTED):	123.5 kVA	kVA TOTAL PER PHASE: (CO				E: (CON	INECT	ED)								
, ,	111.3 kVA	15	7 A		148 A	· ·		, 143 A								
TOTAL AMP. (CONNECTED):				R PH					5)							
OTAL AMP. (CONNECTED):         149 A         TOTAL PER PHASE:         (C           OTAL AMP. (DEMAND):         134 A         196 A         184 J			•			179 A	~/									

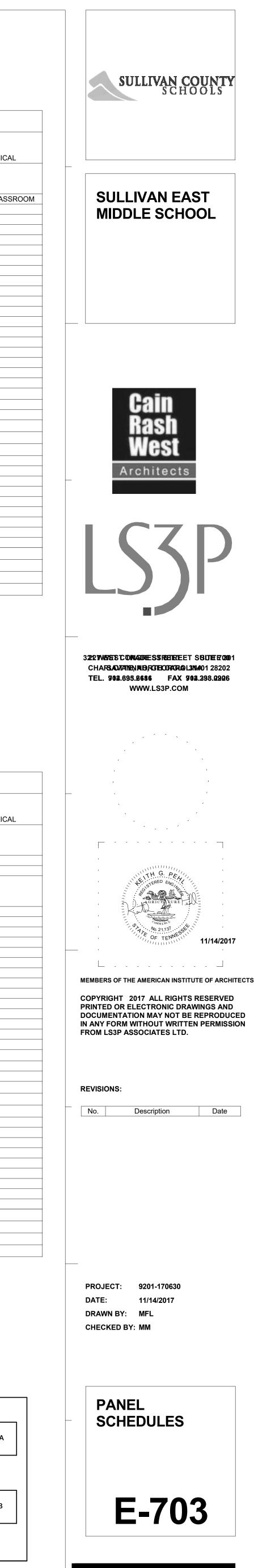
VOLTAGE: 120	1/208 10/04	<u>ــــــــــــــــــــــــــــــــــــ</u>				MAIN	TYPE:	MCP							MFR:
MOUNTING: SU		9					HASE:								MFR: YPE:
MOUNTING: 30 MAIN: 225	-						WIRE:							•	AIC: 10,000 AMPS SYMMETRICAL
								•							
	Wire		СКТ	POLE		4	1	в	<b>c</b>	2	POLE	скт		Wire	
LOAD SERVED	Size	TRIP	NO	S							S	NO	TRIP	Size	LOAD SERVED
REC - BOYS PE C121	6	20 A	1	1	0.9	0.6					1	2	20 A	6	EWC - (NOTE 7)
EC - LAUNDRY C127	6	20 A	3	1			1.1	0.2			1	4	20 A	6	WASHER - C127
AND DRYER C125	6	20 A	5	1					1.0	0.9	1	6	20 A	6	REC - COACH C123
CE MACHINE C127	6	20 A	7	1	0.2	1.2					1	8	20 A	10	EWC - CORR C100 (NOTE 7)
WC - CORR C100 (NOTE 7)	10	20 A	9	1			1.2	1.1			1	10	20 A	10	REC - CORR C100
WC - CORR C100 (NOTE 7)	10	20 A	11	1					1.2	1.2	1	12	20 A	10	EWC - CORR C100 (NOTE 7)
AND DRYER - GIRLS C107	10	20 A	13	1	1.0	1.0					1	14	20 A	10	HAND DRYER - BOYS C106
EC - COMMONS C103	10	20 A	15	1			0.9	0.2			1	16	20 A	10	FLOORBOX - COMMONS C103
EC - LEARNING C103	10	20 A	17	1					0.5	0.2	1	18	20 A	10	REC - CONCESSIONS C112 (NOTE 7
EC - LEARNING C103	10	20 A	19	1	0.5	0.2					1	20	20 A	10	REC - CONCESSIONS C112
EFRIGERATOR C105 (NOTE 7)	10	20 A	21	1			0.2	0.4			1	22	20 A	10	REC - TOILET C102
EC - BROADCAST C104	10	20 A	23	1					1.2	1.2	1	24	20 A	10	REC - BROADCAST C104
EC - CHORUS C110	10	20 A	25	1	0.5	0.7					1	26	20 A	10	REC - CHORUS C110
WC - CHORUS C110 (NOTE 7)	10	20 A	27	1			0.6	0.5			1	28	20 A	10	REC - CHORUS C110
EC - OFFICE C114	10	20 A	29	1					0.9	0.5	1	30	20 A	8	REC - BAND C115
EC - BAND C115	8	20 A	31	1	0.9	0.6					1	32	20 A	8	EWC - BAND C115 (NOTE 7)
EC - BAND C115	8	20 A	33	1			0.5	0.2			1	34	20 A	12	REF - CONCESSIONS C112 (NOTE 7
EC - MECH ROOM	12	20 A	35	1					0.5	0.7	1	36	20 A	12	FAN F-9
AV'S MEZZ.	12	20 A	37	1	0.2	0.2					1	38	20 A	12	REC - DATA D200
EC - CONCESSIONS C112	10	20 A	39	1			0.2	0.5			1	40	20 A	12	REC - DATA D200
EC - CONCESSIONS C112	10	20 A	41	1					0.2	0.5	1	42	20 A	12	REC - DATA D200
EC - JAN C108	10	20 A	43	1	0.5	1.8			0.2	0.0	-	44			
WC - DINING C140 (NOTE 7)	10	20 A	45	1	0.0	1.0	1.2	1.8			2	46	20 A	12	REC - DATA D200
WC - DINING C140 (NOTE 7)	10	20 A	47	1					1.2	0.5	1	48	20 A	12	REC - DATA D200
EC - WORKROOM C105	10	20 A	49	1	0.2	1.8				0.0		50			
SYM SOUND SYSTEM	10	20 A	51	1	0.2	1.0	0.5	1.8			2	52	20 A	12	REC - DATA D200
CORRIDOR C100 TV	10	20 A	53	1			0.0	1.0	0.5	0.5	1	54	20 A	12	REC - DATA D200
	10		55		1.3	0.2			0.0	0.0	1	56	20 A	12	REC - ROOF
DDU - 5	10	20 A	57	2	1.0	0.2	1.3	0.0			1	58	20 A	10	SECURITY CONTROL POWER
SYM FLOOR BOXES	10	20 A	59	1			1.0	0.0	0.4	0.2	1	60	20 A	12	LEARNING COMMONS FLOORBOX
EC - CONCESSIONS C112	10	20 A	61	1	0.5	1.0			0.1	0.2	1	62	20 A	8	HAND DRYER - C125
IAND DRYER - C130	8	20 A	63	1	0.0	1.0	1.0	1.0			1	64	20 A	10	HAND DRYER - C102
IAND DRYER - C101	10	20 A	65	1					1.0	0.0	1	66	20 A		SPARE
PARE		20 A	67	1	0.0	0.0					1	68	20 A		SPARE
PARE		20 A	69	1		0.0	0.0	0.0			1	70	20 A		SPARE
PARE		20 A	71	1					0.0	0.0	1	72	20 A		SPARE
PARE		20 A	73	1	0.0	0.0			0.0		1	74	20 A		SPARE
PARE		20 A	75	1	0.0	0.0	0.0	0.0			1	76	20 A		SPARE
PARE		20 A	77	1			0.0	0.0	0.0	0.0	1	78	20 A		SPARE
PARE		20 A	79	1	0.0	0.0			0.0	0.0	1	80	20 A		SPARE
PARE		20 A	81	1	0.0	0.0	0.0	0.0			1	82	20 A		SPARE
PARE		20 A	83	1			0.0	0.0	0.0	0.0	1	84	20 A		SPARE
		20 7	00	•					0.0	0.0	•	04	20 A		OF AILE
OAD	Connect		d Do	mand E	actor	Ectimo	tod Do	mand	NOTES	<u>.</u>					
IGHTS	0.00			0.00%			.00 kVA								D PER PANEL AIC RATING.
IEATING	0.00	kVA		0.00%	b	0.	.00 kVA	4	2. SHA	LL BE I	FULLY F	RATE	D - SEF	RIES RA	ATINGS NOT ALLOWED.
OOLING	0.00	kVA	/A 0.00% 0.00 kVA 3. ALL BUSS									L GN	ID AND	NEUTF	RAL, SHALL BE COPPER.
ENTILATION	2.60	kVA										NEL	& BRKF	LUGS	SHALL MATCH FEEDERS.
IOTORS	0.65	kVA										DOC	R-IN-D	DOR W	ITH OUTER DOOR LOCK.
ITCHEN	0.00	kVA		0.00%	ò	0.	.00 kVA	4	6. PRO		IETAL D	DIRE	CTORY	FRAME	<b>_</b> .
ECEPTACLES	36.49	kVA		63.70%	6	23	8.25 kV	A	7. PRO	VIDE C	LASS A	A GFI	(6mA-F	ERSO	NNEL) BRKR (250' MAX).
ATER HEATER	0.00	kVA		0.00%	b	0.	.00 kVA	4							
IISC.	7.21	kVA		100.00% 7.21 kVA											
pare	0.00	kVA		0.00% 0.00 kVA											
OTAL KVA (CONNECTED): 45.7 kVA		TOTAL PER PHASE: (CONNECTED)													
OTAL KVA (DEMAND): 32.7 kVA	120	129 A 131 A 123 A													
		7 A 131 A 123 A TAL PER PHASE: (CONNECTED @ 125%)													
OTAL AMP. (CONNECTED): 127 A							-								
FOTAL AMP. (DEMAND): 91 A	∣ 16′	IА		164 A	161 A 164 A 154 A										

3

	LTAGE: 480 INTING: SU MAIN: 100	RFACE	e					type: Hase: Wire:	3							MFR: TYPE: AIC: 18,000 AMPS SYMMETRICA
LOAD SERVED		Wire Size	TRIP	CKT NO	POLE S	(LOAI	A D KVA)		B DAD /A)	(LOAI	C D KVA)	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED
LTG-1ST FLOOR AREA C CO	RR.	10	20 A	1	1	1.9	1.7					1	2	20 A	10	LTG-1ST FLOOR AREA A CLASS
MEZZANINE LTG		12	20 A	3	1			0.4	0.0			1	4	20 A		SPARE
SPACE ONLY				5						0.0	0.0	1	6	20 A		SPARE
SPACE ONLY				7		0.0	0.0					1	8	20 A		SPARE
SPACE ONLY				9				0.0	0.0			1	10	20 A		SPARE
SPACE ONLY				11						0.0	0.0	1	12	20 A		SPARE
SPACE ONLY				13		0.0	0.0					1	14	20 A		SPARE
				15									16			
				17									18			
				19									20			
				21									22			
				23									24			
				25									26			
				27									28			
				29									30			
				31									32			
				33									34			
				35									36			
				37									38			
				39									40			
				41									42			
LOAD		Connect	ed Loa	d De	mand F	actor	Estima	ted De	mand	NOTE	S:					
LIGHTS		3.50	kVA		125.00	%	4.	37 kVA	۹.	1. BRE	AKER	FRAME	SHA	LL BE A	S REC	O'D PER PANEL AIC RATING.
HEATING		0.00	kVA		0.00%	6	0.	00 kVA	4	2. SHA	LL BE	FULLY	RATE	D - SEF	RIES R	ATINGS NOT ALLOWED.
COOLING			kVA		0.00%			00 kVA								RAL, SHALL BE COPPER.
VENTILATION		0.00			0.00%			00 kVA								S SHALL MATCH FEEDERS.
MOTORS		0.00			0.00%			00 kVA								VITH OUTER DOOR LOCK.
KITCHEN		0.00			0.00%			00 kVA						CTORY		
RECEPTACLES		0.00			0.00%			00 kVA			·					
WATER HEATER		0.00			0.00%			00 kVA								
MISC.					0.00%			00 kVA								
Spare			kVA	0.00%			00 kVA									
TOTAL KVA (CONNECTED):	3.9 kVA		ΤΟΤΑΙ	AL PER PHASE: (CON				ED)								
TOTAL KVA (DEMAND):	4.8 kVA	13	A A		2 A	•		0 A								
TOTAL AMP. (CONNECTED):				R PH			CTED @		5)							
TOTAL AMP. (DEMAND):	6 A	TOTAL PER PHASE: (CONNEC			5. LD (4	0 A	~)									

						PAN	EL:	DP	2A						
VOLTAGE: 4 MOUNTING: S MAIN: 4	SURFACE	e					HASE:	3							MFR: TYPE:
LOAD SERVED	Wire	TRIP	CKT NO	POLE	(LOAI	A D KVA)		4 B DAD /A)	(LOAE	C D KVA)	POLE	CKT NO	TRIP	Wire Size	AIC: 18,000 AMPS SYMMETRICA
	0126		1	0	7.4	0.0		,			1	2	20 A		SPARE
PANEL LP2A	SR	100 A	3	3	1.7	0.0	6.4	0.0			1	4	20 A		SPARE
			5	Ū			0.1	0.0	0.0	23.6	<u> </u>	6	2077		
			7		32.8	23.6			0.0	20.0	3	8	200 A	SR	PANEL MP2A
PANEL RP2A (VIA TXRP2A)	SR	175 A	9	3	02.0	20.0	31.7	23.4				10	20071		
			11	Ū			• …		34.8	0.0		12			SPACE ONLY
SPACE ONLY			13		0.0	0.0			0.110	0.0		14			SPACE ONLY
SPACE ONLY			15		0.0		0.0	0.0				16			SPACE ONLY
SPACE ONLY			17						0.0	0.0		18			SPACE ONLY
SPACE ONLY			19		0.0	0.0						20			SPACE ONLY
			21									22			
			23									24			
			25									26			
			27									28			
			29									30			
			31									32			
			33									34			
			35									36			
			37									38			
			39									40			
			41									42			
LOAD	Connect	ed Loa	d De	mand F	actor	Estima	ted De	mand	NOTES	S:					
LIGHTS	13 57	′ kVA		125.00	%	16	.96 kV	Α	1 BRE	AKFR	FRAME	SHA		S REQ	D PER PANEL AIC RATING.
HEATING	0.00			0.00%			.00 kVA								ATINGS NOT ALLOWED.
COOLING	0.00						.00 kVA								
VENTILATION		kVA kVA		0.00%			.00 kVA .00 kVA								RAL, SHALL BE COPPER.
MOTORS		kvA 8 kVA		120.95			.18 kV								/ITH OUTER DOOR LOCK.
KITCHEN	0.00			0.00%			.00 kVA								
RECEPTACLES		kvA 2 kVA		55.54			00 kV/		U. FRC				CIURI	FNAI	
WATER HEATER				0.00%			.00 kVA		SR S						
MISC.		0.00 kVA 0.0 5.20 kVA 100.					20 kVA		511 0						
Spare	0.00			0.00%			.00 kVA								
oparo	0.00			0.007	0	0.		•							
TOTAL KVA (CONNECTED): 182.1 kV	A	TOTAL	PER	PHAS	E: (COl	NECT	ED)								
TOTAL KVA (DEMAND): 150.6 kV/	A 23	) A		222	4		209 A								
TOTAL AMP. (CONNECTED): 219 A	ТО	TAL PE	R PH/	ASE: (C	ONNE	CTED @	0 125%	b)							
TOTAL AMP. (DEMAND): 181 A		TOTAL PER PHAS			4		261 A	-							

RP1C	DP1CA	LP1CA
MP1CA	RP1CA	DP2B



-	
E	

D

VOLTAGE: 48 MOUNTING: SL MAIN: 10	RFACE	e	I			Р	TYPE: HASE: WIRE:	3							MFR: TYPE: AIC: 18,000 AMPS SYMMETRICAI
LOAD SERVED	Wire Size	TRIP	CKT NO	POLE S		A	1	В		C	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED
LITES - 2ND FLR AREA A CORR	10	20 A	1	1	3.1	4.3					1	2	20 A	10	LITES - 2ND FLR AREA A
LITES - 2ND FLR AREA A	10	20 A	3	1			3.8	2.7			1	4	20 A	10	LITES - 2ND FLR AREA B
SPACE ONLY			5						0.0	0.0	1	6	20 A		SPARE
SPACE ONLY			7		0.0	0.0					1	8	20 A		SPARE
SPACE ONLY			9				0.0	0.0			1	10	20 A		SPARE
SPACE ONLY			11						0.0	0.0	1	12	20 A		SPARE
SPACE ONLY			13		0.0	0.0					1	14	20 A		SPARE
SPACE ONLY			15				0.0	0.0				16			SPACE ONLY
SPACE ONLY			17						0.0	0.0		18			SPACE ONLY
			19									20			
			21									22			
			23									24			
			25									26			
			27									28			
			29									30			
			31									32			
			33									34			
			35									36			
			37				_					38			
			39									40			
			41									42			
	Connect					Fatime			NOTE	<b>•</b> .					
LOAD			a De											0 8 5 6	
LIGHTS		′ kVA	_	125.00			6.96 kV								D PER PANEL AIC RATING.
HEATING		kVA		0.00%			.00 kVA								ATINGS NOT ALLOWED.
COOLING		kVA		0.00%			.00 kVA								RAL, SHALL BE COPPER.
VENTILATION		kVA		0.00%			.00 kVA								SHALL MATCH FEEDERS.
MOTORS		kVA		0.00%			.00 kVA								/ITH OUTER DOOR LOCK.
KITCHEN		kVA	_	0.00%			.00 kVA		6. PRC		METAL [	DIRE	CTORY	FRAM	Ξ
RECEPTACLES		kVA		0.00%			.00 kVA								
WATER HEATER		kVA	_	0.00%			.00 kVA								
MISC.	0.00 kVA 0.00%						.00 kVA								
Spare	0.00 kVA 0.00%						.00 kVA	4							
TOTAL KVA (CONNECTED): 13.8 kVA							,								
TOTAL KVA (DEMAND): 17.2 kVA							0 A								
TOTAL AMP. (CONNECTED): 17 A	TAL AMP. (CONNECTED): 17 A TOTAL PER PHASE: (CONN						ጋ 125%	<b>b</b> )							
TOTAL AMP. (DEMAND): 21 A							0 A								

						F	PAN	EL:	KP	D						
	LTAGE: 120 INTING: SU MAIN: 100	RFACE	9				P	TYPE: HASE: WIRE:	3							MFR: YPE: AIC: 10,000 AMPS SYMMETRICAL
LOAD SERVED		Wire Size	TRIP	CKT NO	POLE S	(LOAE	A D KVA)		B DAD /A)	(LOAE	C ) KVA)	POLE S	CKT NO		Wire Size	LOAD SERVED
PANEL KPL1 (NOTE 8)		SR	400 A	1 3 5	3	43.8	33.0	43.9	33.0	41.5	33.0	3	2 4 6	400 A	SR	KPL2 (NOTE 8)
SPARE			100 A	7 9 11	3	0.0	0.0	0.0	0.0	0.0	0.0	3	8 10 12	100 A		SPARE
SPACE ONLY				13		0.0	0.0						14			SPACE ONLY
SPACE ONLY				15				0.0	0.0				16			SPACE ONLY
SPACE ONLY			17 19						0.0	0.0		18 20			SPACE ONLY	
				21						-			22			
				23 25									24			
													26			
				27									28			
				29									30			
				31									32			
				33									34			
				35 37									36 38			
				39									40			
				41									42			
LOAD		Connecte	ed Loa	d De	mand I	actor	Estima	ited De	mand	NOTES	S:					
LIGHTS		0.00	kVA		0.00%	6	0.	.00 kVA	4	1. BRE	AKER	RAME	SHA	LL BE A	S REQ	D PER PANEL AIC RATING.
HEATING		0.00			0.00%			.00 kVA								ATINGS NOT ALLOWED.
COOLING		0.00			0.009			.00 kVA								RAL, SHALL BE COPPER.
VENTILATION		0.00		_	0.009			.00 kVA								SHALL MATCH FEEDERS.
MOTORS		0.00			0.009			.00 kVA								ITH OUTER DOOR LOCK.
KITCHEN		9.99			90.00			.99 kVA						CTORY		
RECEPTACLES					66.07			.56 kV/		7. MAI						
WATER HEATER								.00 kVA						RATED	)	
MISC.								.08 kV		SR S						
Spare								.00 kVA				-				
TOTAL KVA (CONNECTED):	228.0 kVA		TOTAL PER PHASE: (CONI					ED)								
TOTAL KVA (DEMAND):	216.7 kVA	642		·	644 /	· · ·		621 A								
TOTAL AMP. (CONNECTED):									5)							
· · · · · · · · · · · · · · · · · · ·							-	-	)							
TOTAL AMP. (DEMAND):	601 A	803	3 A		805 /	4		776 A								

2

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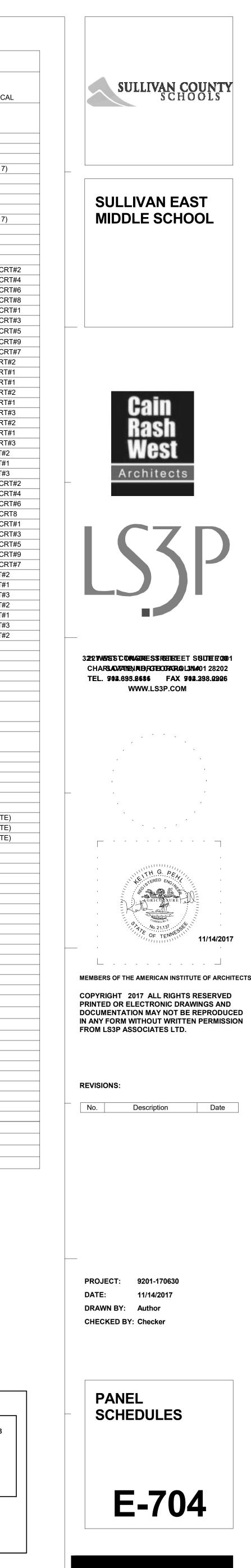
					l	PAN	EL:	MP	2A						
VOLTAGE: 480 MOUNTING: SU MAIN: 200	RFACE	e					TYPE: HASE: WIRE:	3							MFR: YPE: AIC: 18,000 AMPS SYMMETRICAL
LOAD SERVED	Wire Size	TRIP	CKT NO	POLE	(LOAI	A D KVA)	(LC	B DAD /A)	(LOAD	C ) KVA)	POLE	CKT NO	TRIP	Wire Size	LOAD SERVED
AHU-2S	8	50 A	1 3 5	3	10.6	5.6	10.6	5.6	10.6	5.6	3	2 4 6	30 A	10	AHU-2R
ELEVATOR (20HP)	6	60 A	7 9 11	3	7.2	0.0	7.2	0.0	7.2	0.0	3	8 10 12	30 A		SPARE
FAN F -19	12	20 A	13	1	0.2	0.0					1	14	20 A		SPARE
FAN F -16	12	20 A	15	1			0.2	0.0			1	16	20 A		SPARE
SPARE		20 A	17	1					0.0	0.0	1	18	20 A		SPARE
SPACE ONLY			19		0.0	0.0						20			SPACE ONLY
SPACE ONLY			21				0.0	0.0				22			SPACE ONLY
SPACE ONLY			23						0.0	0.0		24			SPACE ONLY
SPACE ONLY			25		0.0	0.0						26			SPACE ONLY
SPACE ONLY			27				0.0	0.0				28			SPACE ONLY
SPACE ONLY			29						0.0	0.0		30			SPACE ONLY
			31									32			
			33									34			
			35									36			
			37									38			
			39									40			
			41									42			
LOAD	Connect	ed Loa	d De	mand F	actor	Estima	ted De	mand	NOTES	S:					
LIGHTS	0.00			0.00%			00 kVA				FRAME	SHA		S REO	D PER PANEL AIC RATING.
HEATING				0.00%											ATINGS NOT ALLOWED.
	0.00						00 kVA								
	0.00			0.00%			00 kVA								RAL, SHALL BE COPPER.
VENTILATION	0.00			0.00%			00 kVA								SHALL MATCH FEEDERS.
MOTORS	21.60			125.00			.00 kV								TTH OUTER DOOR LOCK.
KITCHEN	0.00			0.00%			00 kVA 00 kVA		6. PRC		/IETAL I	DIRE	CTORY	FRAME	Ξ.
	ECEPTACLES         0.00 kVA         0.00%           ATER HEATER         0.00 kVA         0.00%														
WATER HEATER			00 kVA												
MISC.		100.00			34 kVA										
Spare	are 0.00 kVA 0.00%						00 kVA	٩							
		TOT													
TOTAL KVA (CONNECTED): 70.5 kVA															
TOTAL KVA (DEMAND): 75.9 kVA	TAL KVA (DEMAND): 75.9 kVA 85 A 85 A						84 A								
TOTAL AMP. (CONNECTED): 85 A	L AMP. (CONNECTED): 85 A TOTAL PER PHASE: (CONN					CTED @	) 125%	<b>b</b> )							
TOTAL AMP. (DEMAND): 91 A	106 /	^		106 A											

	<b>TAGE:</b> 120	•						TYPE:	MLO							MFR:
	iting: Re Main: 400							HASE: WIRE:							T	<b>YPE:</b> <b>AIC:</b> 10,000 AMPS SYMMETRICAL
LOAD SERVED		Wire Size	TRIP	CKT NO	POLE		A	I	В	(	;	POLE	CKT NO	TRIP	Wire Size	LOAD SERVED
01 - AIR CURTAIN		12	20 A	1	1	0.7	0.6					1	2	20 A	12	02 - SCALE
3 - SLICER		12	20 A	3	1			0.5	1.1			1	4	20 A	12	07 - FOOD CUTTER
		10	00 A	5	2					0.5	0.2	1	6	20 A	12	18 - WALK IN FREEZER
08 - 30 QT MIXER		12	20 A	7	2	0.5	1.2					1	8	20 A	12	18.1 - WALK IN FREEZER
19 - EVAPORATOR COIL, COC	LER	12	15 A	9	1			2.0	0.9			2	10	20.4	10	
				11						0.7	0.9	2	12	20 A	12	21 - EVAPORATOR COIL, FREEZER
20 - CONDENSING UNIT, COO	LER	12	15 A	13	3	0.7	2.0						14			
				15				0.7	2.0			3	16	30 A	10	22 - CONDENSING UNIT, FREEZER
31 - FOOD PROCESSOR		12	20 A	17	1					0.2	2.0		18			
32 - EXHAUST HOOD		8	30 A	19	1	2.4	1.0					1	20	30 A	8	32.1 - EXHAUST HOOD
32.3 - CONTOL PANEL		10	20 A	21	1			1.2	5.7				22			
33.1 - FRYER DUMP STATION		12	20 A	23	1					0.8	5.7	3	24	60 A	4	33 - FRYER
				25		7.3	5.7						26			
34.1 - COMBI OVEN, 10-PAN		1	100 A		3			7.3	12.3				28			
				29						7.3	12.3	3	30	150 A	1/0	34 - COMBI OVEN, 10-PAN
				31		3.6	12.3				-		32			
35 - KETTLE, 40QT		6	40 A	33	3			3.6	3.6				34			
, iour		Ŭ	1071	35				0.0	0.0	3.6	3.6	3	36	40 A	6	36 - TILT SKILLET
				37		2.8	3.6			0.0	0.0	Ŭ	38	4077		
40 - MICROWAVE		10	20 A	39	2	2.0	0.0	2.8	0.7				40			
59 - HOT FOOD COUNTER		8	50 A	41	1			2.0	0.7	3.8	0.7	2	40	20 A	10	38 - ICE MACHINE, CUBE
59 - HUT FOOD COUNTER		0	50 A	41	I					3.0	0.7		42			
OAD		Connect	ed Loa	d De	mand F	actor	Estima	ted De	emand	NOTES	S:					
LIGHTS		0.00	kVA		0.00%	, D	0.	.00 kVA	4	1. BRE	AKER	FRAME	SHA	LL BE A	SREQ	D PER PANEL AIC RATING.
HEATING		0.00	kVA		0.00%	, D	0.	.00 kVA	4	2. SHA	LL BE I	FULLY I	RATE	D - SEF	RIES RA	ATINGS NOT ALLOWED.
COOLING		0.00			0.00%	, D		.00 kVA								RAL, SHALL BE COPPER.
/ENTILATION		0.00			0.00%			.00 kVA				,				SHALL MATCH FEEDERS.
MOTORS		0.00			0.00%			.00 kVA								/ITH OUTER DOOR LOCK.
KITCHEN		9.99			90.00%			.99 kVA				/ETAL [				
RECEPTACLES		10.99			95.50%			.49 kV				BREAKE				
WATER HEATER					0.00%			.00 kVA								NNEL) BRKR (250' MAX).
ATER HEATER 0.00 kVA 0.00% SC. 10.15 kVA 100.00								.15 kV				E 100%		•	LIKOU	
are 0.00 kVA 0.009								.00 kVA		0.100/01		L 10070	1011			
spare		0.00			0.007	5		.00 1.07	•							
TOTAL KVA (CONNECTED): 1	129.2 kVA		TOTAL	PEF	R PHASE	E: (COI	NECT	ED)								
TOTAL KVA (DEMAND): 1	127.7 kVA	368	8 A 369 A					346 A								
TOTAL AMP. (CONNECTED): 3	359 A	TO	TAL PE	R PH	ASE: (C	ONNE	CTED @	D 125%	%)							
TAL AMP. (DEMAND): 355 A 459 A 461 A						433 A										

3

VOLTAGE: 12 MOUNTING: SU MAIN: 40	JRFACE	9				Р	TYPE: HASE: WIRE:	3							MFR: IYPE: AIC: 10,000 AMPS SYMM
	Wire		СИТ	POLE		A		В		C	POLE	СИТ		Wire	
LOAD SERVED	Size	TRIP	NO	S						_	S	NO	TRIP	Size	LOAD SERV
REC - 2ND FLOOR AREA A CORR REFRIGERATOR A209A (NOTE 7)	8	20 A 20 A	1	1	0.9	0.5	0.2	0.5			1	2	20 A 20 A	10 12	REC - PREP A209A REC - WORKROOM A205
REC - TOILET A205B	10	20 A	5	1			0.2	0.5	0.4	0.2	1	4	20 A	12	REC - WORKROOM A205
REC - 2ND FLOOR AREA B CORR	8	20 A	7	1	1.3	0.2					1	8	20 A	10	DISHWASHER - A209A (N
REFRIGERATOR A205 (NOTE 7)	10 10	20 A	9 11	1 1			0.2	0.5	0.9	0.5	1	10 12	20 A	12	AHU-2 CONTROLLER
REC - B202 EWC - (NOTE 7)	10	20 A 20 A	11	1	1.2	1.2			0.9	0.5	1	12	20 A 20 A	10 10	COPIER - A205 (NOTE 7) EWC - (NOTE 7)
REC - PREP B210A	8	20 A	15	1			0.5	1.0			1	16	20 A	10	HAND DRYER - GIRLS B2
REFRIGERATOR B210A (NOTE 7)	8	20 A	17	1					0.2	0.2	1	18	20 A	10	DISHWASHER - B210A (N
HAND DRYER - BOYS C106 HAND DRYER - GIRLS B205	10 10	20 A 20 A	19 21	1 1	1.0	1.0	1.0	1.0			1	20 22	20 A 20 A	10 10	HAND DRYER - BOYS B2 HAND DRYER - GIRLS C
HAND DRYER - BOYS B206	10	20 A	21	1			1.0	1.0	1.0	0.7	1	22	20 A	10	REC - 7TH - A212
REC - 7TH - A212	10	20 A	25	1	0.7	0.4					1	26	20 A	10	REC - 7TH - A212
REC 7TH SCIENCE - A213 - CRT#1	10	20 A	27	1			0.4	0.4	0.4	0.4	1	28	20 A	10	REC 7TH SCIENCE - A2
REC 7TH SCIENCE - A213 - CRT#3 REC 7TH SCIENCE - A213 - CRT#5	10	20 A 20 A	29 31	1 1	0.4	0.4			0.4	0.4	1	30 32	20 A 20 A	10 10	REC 7TH SCIENCE - A2 REC 7TH SCIENCE - A2
REC 7TH SCIENCE - A213 - CRT#7	10	20 A	33	1	0.1	0.1	0.7	0.4			1	34	20 A	10	REC 7TH SCIENCE - A2
REC 7TH SCIENCE - A213 - CRT#9	10	20 A	35	1					0.5	0.4	1	36	20 A	10	REC 7TH SCIENCE - A2
REC 7TH SCIENCE - A209 - CRT#2 REC 7TH SCIENCE - A209 - CRT#4	10	20 A	37 39	1 1	0.4	0.4	0.4	0.4			1	38	20 A	10	REC 7TH SCIENCE - A2 REC 7TH SCIENCE - A2
REC 7TH SCIENCE - A209 - CRT#4 REC 7TH SCIENCE - A209 - CRT#6	10	20 A 20 A	39 41	1			0.4	0.4	0.4	0.5	1	40 42	20 A 20 A	10 10	REC 7TH SCIENCE - AZ
REC 7TH SCIENCE - A209 - CRT#8	10	20 A	43	1	0.4	0.7					1	44	20 A	10	REC 7TH SCIENCE - A2
REC 7TH SOCIAL - A210 - CRT#2	10	20 A	45	1			0.7	0.4	-	-	1	46	20 A	10	REC 7TH SOCIAL - A21
REC 7TH SOCIAL - A210 - CRT#3 REC 7TH SOCIAL - A208 - CRT#2	10	20 A 20 A	+ +	1 1	0.4	0.7			0.7	0.7	1	48 50	20 A 20 A	10 10	REC 7TH SOCIAL - A20 REC 7TH SOCIAL - A20
REC 7TH SOCIAL - A208 - CRT#2 REC 7TH SOCIAL - A208 - CRT#3	10	20 A		1	0.4	5.1	0.7	0.4			1	52	20 A 20 A	10	REC 7TH SOCIAL - A20
REC 7TH SOCIAL - A206 - CRT#3	10	20 A	53	1					0.7	0.7	1	54	20 A	10	REC 7TH SOCIAL - A20
REC 7TH SOCIAL - A207 - CRT#2	10	20 A	+ +	1	0.4	0.7	07	0.4			1	56 58	20 A	10	REC 7TH SOCIAL - A20
REC 7TH SOCIAL - A204 - CRT#1 REC 7TH SOCIAL - A201 - CRT#2	12	20 A 20 A	+ +	1 1			0.7	0.4	0.4	0.7	1	58 60	20 A 20 A	12 12	REC 7TH SOCIAL - A20 REC 7TH SOCIAL - A20
REC 7TH SOCIAL - A204 - CRT#3	12	20 A	+ +	1	0.7	0.7			5. f	5.7	1	62	20 A	12	REC 7TH SOCIAL - A20
REC 8TH MATH -B211 - CRT#1	10	20 A	-	1			0.7	0.4	-	-	1	64	20 A	10	REC 8TH MATH -B211
REC 8TH MATH -B211 - CRT#3 REC 8TH MATH -B213 - CRT#2	10 10	20 A 20 A		1 1	0.4	0.7			0.7	0.7	1	66 68	20 A 20 A	10 10	REC 8TH MATH -B213 REC 8TH MATH -B211
REC 8TH MATH -B213 - CRT#2 REC 8TH SCIENCE -B214 - CRT#1	10	20 A 20 A	+ +	1	0.4	0.7	0.4	0.4			1	68 70	20 A 20 A	10	REC 8TH MATH -B211 REC 8TH SCIENCE -B2
REC 8TH SCIENCE -B214 - CRT#3	10	20 A	71	1					0.4	0.4	1	72	20 A	10	REC 8TH SCIENCE -B2
REC 8TH SCIENCE -B214 - CRT#5	10			1	0.4	0.4	0.7				1	74	20 A	10	REC 8TH SCIENCE -B2
REC 8TH SCIENCE -B214 - CRT#7 REC 8TH SCIENCE -B214 - CRT#9	10	20 A 20 A	+ +	1 1			0.7	0.4	0.5	0.4	1	76 78	20 A 20 A	10 10	REC 8TH SCIENCE -B2 REC 8TH SCIENCE -B2
REC 8TH SCIENCE -B210 - CRT#2	10	20 A		1	0.4	0.4			0.0	0.4	1	80	20 A	10	REC 8TH SCIENCE -B2
REC 8TH SCIENCE -B210 - CRT#4	10	20 A		1			0.4	0.4			1	82	20 A	10	REC 8TH SCIENCE -B2
REC 8TH SCIENCE -B210 - CRT#6	10	20 A		1	0.4	0.7			0.4	0.5	1	84	20 A	10	REC 8TH SCIENCE -B2
REC 8TH SCIENCE -B210 - CRT#8 REC 8TH MATH -B208 - CRT#1	10	20 A 20 A		1 1	0.4	0.7	0.7	0.4			1	86 88	20 A 20 A	10 10	REC 8TH SCIENCE -B2 REC 8TH MATH -B208
REC 8TH MATH -B208 - CRT#3	10	20 A	+ +	1			0.1	0.1	0.7	0.7	1	90	20 A	10	REC 8TH MATH -B209
REC 8TH MATH -B209 - CRT#2	10	20 A	+ +	1	0.4	0.7					1	92	20 A	10	REC 8TH MATH -B209
REC 8TH MATH -B207 - CRT#1 REC 8TH MATH -B207 - CRT#1	10	20 A 20 A		1 1			0.7	0.4	0.7	0.7	1	94 96	20 A 20 A	10 12	REC 8TH MATH -B207 REC 8TH MATH -B204
REC 8TH MATH -6207 - CRT#1 REC 8TH MATH -6204 - CRT#2	10	20 A	-	1	0.4	0.7			0.7	0.7	1	90	20 A	12	REC 8TH MATH -B204 REC 8TH MATH -B204
REC 8TH MATH -B201 - CRT#1	12	20 A		1			0.7	0.4			1	100		12	REC 8TH MATH -B201
REC 8TH MATH -B201 - CRT#3	12	20 A		1					0.7	0.2	1	102	20 A	12	REC -EXTERIOR
REC - WORKROOM A205 SUB ELEC A202 - NAC (NOTE 9)	12 12	20 A 20 A	-	1 1	0.2	0.2	0.2	0.2			1	104 106	20 A 20 A	12 12	REC - EXTERIOR REC - SUB ELEC A202
REC - DATA A211	12			1			0.2	0.2	0.2	0.5	1	108	20 A	12	REC - DATA A211
REC - DATA A211	12	20 A		1	0.5	0.5	0.0	0.5			1	110	20 A	12	REC - DATA A211
REC - DATA A211	12	20 A	111 113	2			3.6	0.5	3.6	3.6	1	112 114	20 A	12	REC - DATA A211
REC - DATA A203	12	20 A		1	0.5	3.6			0.0	0.0	2	116	20 A	12	REC - DATA A211
REC - DATA A203	12	20 A	117	1			0.5	1.0			1	118	20 A	12	HAND DRYER - A205B
REC - DATA A203 REC - DATA A203	12 12	20 A 20 A	119 121	1 1	0.5	3.6			0.5	3.6	2	120 122	20 A	12	REC - DATA
			121		0.5	3.0	3.6	0.2			1	122	20 A	12	REC - DATA A203
REC - DATA A203	12	20 A	125	2					3.6	0.2	1	126	20 A	10	ELEVATOR LTG POWER
FIRE SMOKE DAMPER POWER	8	20 A	127	1	0.0	0.7					1	128	20 A	12	FAN F - 15
FAN F -17 FAN F - 18	12 12	20 A 20 A	129 131	1 1			0.7	0.7	0.8	0.8	1	130 132	20 A 20 A	12 12	FAN F - 21 FAN F - 20
FAN F - 18 FAN F - 22	22	20 A 20 A	131	1	0.7	1.8			0.0	0.0	1	132	20 A 20 A	12	VAV'S - AREA A
VAV'S - AREA B	10	20 A	135	1			1.8	0.7			1	136	20 A	10	REC - CLASS A223 (ALTE
REC - CLASS A223 (ALTERNATE)	10	20 A	137	1	<u> </u>				0.4	0.7	1	138	20 A	10	REC - CLASS A223 (ALTE
REC - CLASS A222 (ALTERNATE) REC - CLASS A222 (ALTERNATE)	10 10	20 A 20 A	139 141	1 1	0.7	0.4	0.7	1.0			1	140 142	20 A 20 A	10 10	REC - CLASS A222 (ALTE HAND DRYER - A205A
			143				5.7				t ·	144			
			145									146	-		
SPARE SPARE		20 A 20 A	147 149	1			0.0	0.0	0.0	0.0	1	148 150	20 A 20 A		SPARE SPARE
SPARE		20 A 20 A	149	1	0.0	0.0			0.0	0.0	1	150	20 A 20 A		SPARE
SPARE		20 A	153	1	_		0.0	0.0			1	154	20 A		SPARE
SPARE		20 A	155	1	0.5				0.0	0.0	1	156	20 A		SPARE
SPARE SPARE		20 A 20 A	157 159	1 1	0.0	0.0	0.0	0.0			1	158 160	20 A 20 A		SPARE SPARE
SPACE ONLY		20 A	161				0.0	0.0	0.0	0.0		160	20 A		SPACE ONLY
SPACE ONLY			163		0.0	0.0						164			SPACE ONLY
SPACE ONLY			165				0.0	0.0	0.0	0.0		166			SPACE ONLY
SPACE ONLY			167						0.0	0.0		168			SPACE ONLY
LOAD	Connect	ed Loa	d De	mand F	actor	Estima	ated De	mand	NOTES	S:					
LIGHTS	0.00		+	0.00%			.00 kVA				FRAME	SHA	LL BE A	S REG	D PER PANEL AIC RATIN
HEATING	0.00			0.00%			.00 kVA		2. SHA	LL BE	FULLY	RATE	D - SEF	RIES R	ATINGS NOT ALLOWED.
COOLING	0.00			0.00%			.00 kVA								RAL, SHALL BE COPPER.
VENTILATION	0.00		_	0.00%			.00 kVA								
MOTORS KITCHEN		kVA kVA		104.61			.37 kVA .00 kVA				HINGED METAL I				/ITH OUTER DOOR LOCK. E.
RECEPTACLES	-	kvA 2 kVA		55.54			00 kV/								∟. NNEL) BRKR (250' MAX).
WATER HEATER	0.00	kVA		0.00%	6	0	.00 kVA	4	8. PRC		EED-TI	HRU	LUGS.		, , ,
MISC.		kVA		100.00			.86 kVA							NDLE L	OCK-ON DEVICE.
Spare	0.00	kVA		0.00%	<b>′</b> 0	0	.00 kVA	4	10. MA	IN FO	BE 1009	% RA	IED.		
TOTAL KVA (CONNECTED): 99.1 kVA		ΤΟΤΑ	L PER	PHAS	E: (CO	NNECT	ED)								
· · · · · · · · · · · · · · · · · · ·	27			264 /		1	291 A								
TOTAL KVA (DEMAND): 59.2 kVA		571					-								

LP2B	MP2B	RP2B
KPD	KPL1	



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VOLTAGE: 120/208 Wye MOUNTING: RECESSED MAIN: 400 A					MAIN TYPE: MCB PHASE: 3 WIRE: 4							MFR: TYPE: AIC: 10,000 AMPS SYMMETRICAL							
	Wire		СКТ	POLE		а в		3	C	с		скт		Wire					
LOAD SERVED		Size	TRIP	NO	S		1					S	NO	TRIP	Size	LOAD SERVED			
45 - COFFEE BREWER, AIRP	от	10	20 A	1	2	2.6	0.9					1	2	20 A	12	42 - PASS THRU REFRIGERATOR			
59 - HOT FOOD COUNTER		8	50 A	3	1			2.6	1.4	3.8	1.4	2	4	20 A	12	41 - PASS THRU HEATED CABNIET			
60 - COLD FOOD COUNTER		12	20 A	7	1	0.5	1.0			5.0	1.4	1	8	20 A	12	62 - REFRIGERATOR			
63 - MILK COOLER		12	20 A	9	1	0.5	1.0	0.6	0.2			1	10	20 A	12	65 - P.O.S			
03 - MIER COOLER		12	20 A	11	1			0.0	0.2	1.3	15.7		12	20 A	12	05-P.0.3			
54 - DISPOSER		12	20 A	13	3	1.3	15.7 1.3			1.5	15.7	3	12	20.4	1/0				
54 - DISPOSER		12	20 A	15	3	1.5			15 7			3	14	20 A	1/0	52 - DISHMACHINE, CONVEYOR TYPE			
FAN F-5		12	20 A	15	1			1.3	15.7	0.5	0.5	1	18	20 A	12	REC - KITCHEN C147			
FAN F-5 REC - KITCHEN C147		12	20 A 20 A	17	1	0.9	0.5			0.0	0.0		18	20 A 20 A	12	FAN F-4			
REC - KITCHEN C147 REC - KITCHEN C147		12	20 A 20 A	21	1	0.9	0.5	0.2	0.2			1	20	20 A 20 A	12	REC - KITCHEN C147			
								0.2	0.2	0.2	27			20 A	12				
REC - KITCHEN C147		12	20 A	23	1	27	07			0.2	3.7	2	24	40.4	6				
			40.4	25	2	3.7	3.7	0.7	0.7			3	26	40 A	6	66 - CONVECTION OVEN			
66 - CONVECTION OVEN	6	40 A	27	3			3.7	3.7	0.7	0.0		28	20.4	40	REC - KIT OFFICE				
		10	00.4	29	4	0.4	0.4			3.7	0.9		30	20 A	12				
REC - KITCHEN C147		12	20 A	31	1	0.4	0.4	4.4	4.4			1	32	20 A	12	REC - KITCHEN C147			
REC - KITCHEN C147		12 12	20 A	33	1			1.1	1.4	0.0	4.4	2	34 36	20 A	12	41 - PASS THRU HEATED CABNIET			
42 - PASS THRU REFRIGERA 65 - P.O.S	IUR	12	20 A 20 A	35 37	1	0.2	0.6			0.9	1.4	1	38	20 A	12	63 - MILK COOLER			
60 - COLD FOOD COUNTER		12	20 A	39	1	0.2	0.0	0.5	1.0			1	40	20 A	12	62 - REFRIGERATOR			
		12			1			0.5	1.0	0.2	0.0	1							
REC - KITCHEN C147			20 A	41	1	0.0	0.0			0.2	0.0	1	42	20 A		SPARE SPARE			
74 - REFRIDGERATOR		12	20 A	43	1	0.8	0.0	0.0	0.0				44	20 A					
AUTO REVESE CONTROL PA SPARE		12	20 A 20 A	45 47	1			0.0	0.0	0.0	0.0	1	46	20 A 20 A		SPARE SPARE			
SPARE			20 A	47	1	0.0	0.0			0.0	0.0	1	50	20 A		SPARE			
SPARE			20 A	51	1	0.0	0.0	0.0	0.0			1	52	20 A		SPARE			
SPARE			20 A		1			0.0	0.0	0.0	0.0	1	54	20 A		SPARE			
			20 A							0.0	0.0		04	20 A					
LOAD		Connect	ed Loa	d De	mand F	actor	Estima	ted De	mand	NOTES	S:								
LIGHTS		0.00 kVA			0.00%	, D	0.00 kVA			1. BREAKER FRAME SHA				ALL BE AS REQ'D PER PANEL AIC RATING.					
HEATING		0.00 kVA			0.00%	, D	0.00 kVA			2. SHA	LL BE I	FULLY	RATE	ED - SERIES RATINGS NOT ALLOWED.					
COOLING		0.00 kVA			0.00%	, D	0.	00 kVA	4	3. ALL	3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.								
VENTILATION		0.00 kVA			0.00%					4. ALL INCOMING PANEL & BRKR LUGS SHALL MAT					· · · · · · · · · · · · · · · · · · ·				
MOTORS		0.00 kVA			0.00%					5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.									
KITCHEN			0.00 kVA		0.00%						6. PROVIDE METAL DIRECTORY FRAME.								
RECEPTACLES	20.14 kVA			74.829				7. MAIN TO BE 100% RATED											
WATER HEATER	0.00 kVA			0.00%															
MISC.	1.00 kVA			100.00															
Spare	0.00 kVA		0.00%		0.00 kVA														
TOTAL KVA (CONNECTED):	98.8 kVA		ΤΟΤΑΙ		R PHASE	E: (CON	NECT	ED)											
· · · · · · · · · · · · · · · · · · ·	93.8 kVA	274	275 A 275				SE: (CONNECTED)												
TOTAL AMP. (CONNECTED):				D DU															
$1 \cup 1 \land \square \land \square \land \square \square$	217 M	10		1 T T T	ло <u>г</u> . (U	ONNECTED @ 125%) 343 A				1									

2

1

PANEL: CHP								PANEL: CLP													
VOLTAGE: 480/277 Wye MAIN TYPE: MCB							MFR: SQD	VOLTAGE: 120		MAIN TYPE: MCB							MFR: SQD				
MOUNTING: SU					HASE: 3						MOUNTING: SU				<b>ASE:</b> 3						
<b>MAIN</b> : 40	0 A				WIRE: 4					AIC: 65,000 AMPS SYMMETRICAL	<b>MAIN:</b> 150			v l	VIRE: 4						AIC: 10,000 AMPS SYMMETRICA
LOAD SERVED	Wire Size			A	В	С	POLE S		Wire Size		LOAD SERVED	Wire G Size TRIP		A AD KVA)	(LOAD KVA)	(LOA	C D KVA)	OLE CKT		Vire Size	LOAD SERVED
			1	10.3 4.1				2			SPORTS LIGHTING CONTROL POWER	12 20 A		) 2.0				1 2			SPORTS LIGHTING CONTROL PC
PANEL CLP VIA TXCLP	SR	125 A	3 3		9.5 4.1		3	4 20 A	10	SOFTBALL FIELD LIGHTS B3	SCOREBOARD - FOOTBALL	6 20 A			1.0 1.0			1 4			SCOREBOARD - FOOTBALL
			5	4.1 3.1		9.7 4.1		6 8			SCOREBOARD - SOFTBALL SCOREBOARD - BASEBALL	8 20 A 6 20 A		) 1.0		1.0	1.0	1 6 1 1 8			SCOREBOARD - SOFTBALL SCOREBOARD - BASEBALL
SOFTBALL FIELD LIGHTS B4	10	20 A	9 3	4.1 3.1	4.1 3.1		3	0 10 15 A	12	SOFTBALL FIELD LIGHTS A3	DUGOUT RECEPTS	10 20 A		) 1.0	1.0 1.0	)		1 0 1 10			DUGOUT RECEPTS
			11			4.1 3.1		12			BASEBALL DUGOUT RECEPTS	10 20 A			1.0 1.0		1.0	1 12			BASEBALL DUGOUT RECEPTS
			13	3.1 11.3				14			REC - CUSTODIAN R101A	12 20 A	13 1 0.2	2 0.2				1 14	20 A	12	FAN F-23
SOFTBALL FIELD LIGHTS A4	12	15 A			3.1 11.3		3	16 60 A	۸ 3	FOOTBALL FIELDLIGHTS F1	REFRIDGERATOR - CON. R105 (NOTE 7)	,			0.2 0.2			1 16			REC - CON. R105
			17			3.1 11.3	3	18			REC - CON. R105	12 20 A				0.2	0.5	1 18			RECEPTACLES
	2		19	11.3 8.2	11.3 8.2			20 22 40 A			REC - CON. R105	12 20 A		2 0.2	0.5 0.5	-		1 20			REC - CON. R105
FOOTBALL FIELDLIGHTS F2	3		21 3 23		11.3 8.2	11.3 8.2		22 407	0	FOOTBALL FIELDLIGHTS F3	POS - CON. R105 ICE MACHINE (NOTE 7)	12 20 A 12 20 A			0.5 0.5		1.2	1 22 1 1 24 1			POS - CON. R105 EWC - (NOTE 7)
			25	8.2 4.1		11.3 0.2		24			REC - CON. R105	12 20 A		0.5		0.2	1.2	1 26			REC - CON. R105
FOOTBALL FIELDLIGHTS F4	6	40 A			8.2 4.1		3	28 20 4	12	BASEBALL FIELDLIGHTS A2					2.3 0.4	1		1 28			REC - PRESS BOX R200
		I –	29			8.2 4.1	_	30			WH-3	10 20 A	27 29 2				0.7	1 30			REC - PRESS BOX R200
			31	6.5 3.1				32			REC - PRESS BOX R200	12 20 A	31 1 0.7	7 0.5				1 32	20 A	12	REC - PRESS BOX R200
BASEBALL FIELDLIGHTS B2	8	30 A 🔤			6.5 3.1			34 15 A	10	BASEBALL FIELDLIGHTS C2	FANS - PRESS BOX R200	12 20 A			1.0 0.1			1 34			RCP2 - RECIR. PUMP - CUST. R1
			35			6.5 3.1	_	36			FACP - CONCESSIONS BLDG (NOTE 9)	12 20 A				0.2	0.5	1 36			HAND DRYER - MEN R101
	10		37	3.1 3.1				38	10		HAND DRYER - MEN R101	12 20 A		5 0.5	0.5	_		1 38	20 A	12	HAND DRYER - WOMEN R102
BASEBALL FIELDLIGHTS D2	10	15 A 🔤	39 3 41		3.1 3.1	3.1 3.1	3	40 15 A 42	10	BASEBALL FIELDLIGHTS D1	HAND DRYER WOMEN R102	12 20 A	39 1 41		0.5	_		40			
			43	3.1 6.2		3.1 3.1		42					41					42			
BASEBALL FIELDLIGHTS C1	10	1 1	45 3		3.1 6.2		3		8	BASEBALL FIELDLIGHTS B1	LOAD	Connected Load	Demand Facto	r Estimat	ed Deman		S				
		I –	47			3.1 6.2		48			LIGHTS	0.00 kVA	0.00%		0 kVA			AME SHALL	BE AS	REO'I	D PER PANEL AIC RATING.
		4	49	4.1 0.0			1	50 20 A	12	DUGOUT LIGHTS	HEATING	0.00 kVA	0.00%		0 kVA					-	TINGS NOT ALLOWED.
BASEBALL FIELDLIGHTS A1	12	20 A 🔤	51 3		4.1 2.0					EWH - 4	COOLING	0.00 kVA	0.00%		0 kVA						AL, SHALL BE COPPER.
			53			4.1 2.0		54 20 A		EWH - 3	VENTILATION	0.00 kVA	0.00%		0 kVA						SHALL MATCH FEEDERS.
EWH - 5				2.0 2.0	0.0 0.7					EWH - 6	MOTORS	1.00 kVA	112.50%		3 kVA						ITH OUTER DOOR LOCK.
EWH - 8 LIGHTS - PRESS BOX R200		20 A 20 A			2.0 0.7	0.2 2.0		58 20 A		LIGHTS - PRESS BOX R105 EWH - 7	KITCHEN	0.00 kVA	0.00%	0.0	0 kVA	6. PR	OVIDE MET	TAL DIREC	FORY FF	RAME	
LIGHTS - PRESS BOX R200				0.3 2.0		0.2 2.0		62 20 A			RECEPTACLES	20.01 kVA	74.99%		00 kVA			•			MENT) BRKR.
			63	0.0 2.0				64 64			WATER HEATER	4.50 kVA	100.00%		60 kVA	8. TH	IS PANEL S	SHALL BE U	I.L. LIST	ED FC	OR USE AS S.E. EQUIP.
			65					66			MISC.	4.00 kVA	100.00%		0 kVA						
			67					68			Spare	0.00 kVA	0.00%	0.0	0 kVA						
			69					70			TOTAL KVA (CONNECTED): 29.5 kVA	τοται	PER PHASE: (C		וח						
			71				_	72			TOTAL KVA (DEMAND): 24.6 kVA	86 A	79 A		B) B1 A						
			73					74			TOTAL AMP. (CONNECTED): 82 A		PHASE: (CONN								
			75 77					76 78			TOTAL AMP. (DEMAND): 68 A	101AL PER	99 A		01 A						
			79					80			TOTAL AMP: (DEMAND). 68 A	106 A	99 A		UTA						
			81					82													
			83					84													
		· · ·																			
LOAD	Connect	ed Load	Demand	Factor Estima	ted Demano	NOTES:															
LIGHTS	260.8	0 kVA	125.00	0% 32	6.00 kVA	1. BREAKEF	R FRAME	SHALL BE	AS REC	Q'D PER PANEL AIC RATING.											
HEATING	0.00	kVA	0.00	% 0	.00 kVA	2. SHALL BE	FULLY	RATED - S	ERIES F	ATINGS NOT ALLOWED.											
COOLING	0.00	kVA	0.00	% 0	.00 kVA	3. ALL BUSS	SING, INC	L GND AN	D NEUT	RAL, SHALL BE COPPER.											
VENTILATION	0.00		0.00		.00 kVA					S SHALL MATCH FEEDERS.											
MOTORS	1.00		112.50		.13 kVA																
KITCHEN	0.00		0.00		.00 kVA	6. PROVIDE				E											
RECEPTACLES WATER HEATER	20.01 4.50		74.99		5.00 kVA .50 kVA	7. PROVIDE				IODE, 80kA/PHASE)											
MISC.	4.50		100.00		.50 kVA 3.00 kVA	0. FROVIDE		0E3 380	(HUKA/I												
Spare	0.00		0.00		.00 kVA .00 kVA																
- 1500.0	0.00		0.00																		
TOTAL KVA (CONNECTED): 304.6 kVA		TOTAL F	PER PHAS	E: (CONNECT	ED)																
TOTAL KVA (DEMAND): 364.9 kVA	373		364		, 363 A																
, , ,																					
TOTAL AMP. (CONNECTED): 366 A	TO TO	TAL PER	PHASE: ((	CONNECTED (	D 125%)																

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KPL2	СНР	CLP

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