

REVISIONS

DATE MARK DESC

2/12/00 DRAWINGS ISSUED FOR STATE DEPARTMENT OF
EDUCATION REVIEW OF PHASE 1

2/28/01 DRAWINGS ISSUED FOR BIDDING AND
CONSTRUCTION



NEW RHAM
HIGH SCHOOL
WALL STREET
HEBRON, CONNECTICUT
06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDINC MECHANICAL AND ELECTRICAL ENGINEERS

VZHS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420 TEL (860) 521-4329 FAX (860) 521-5620 VZHS PROJECT NUMBER: 2000155.00



ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050–2590 (860) 229–0361

DRAWN BY: EMD/BPCW SCALE: 1" = 40'CHECKED BY: RLG/RCB

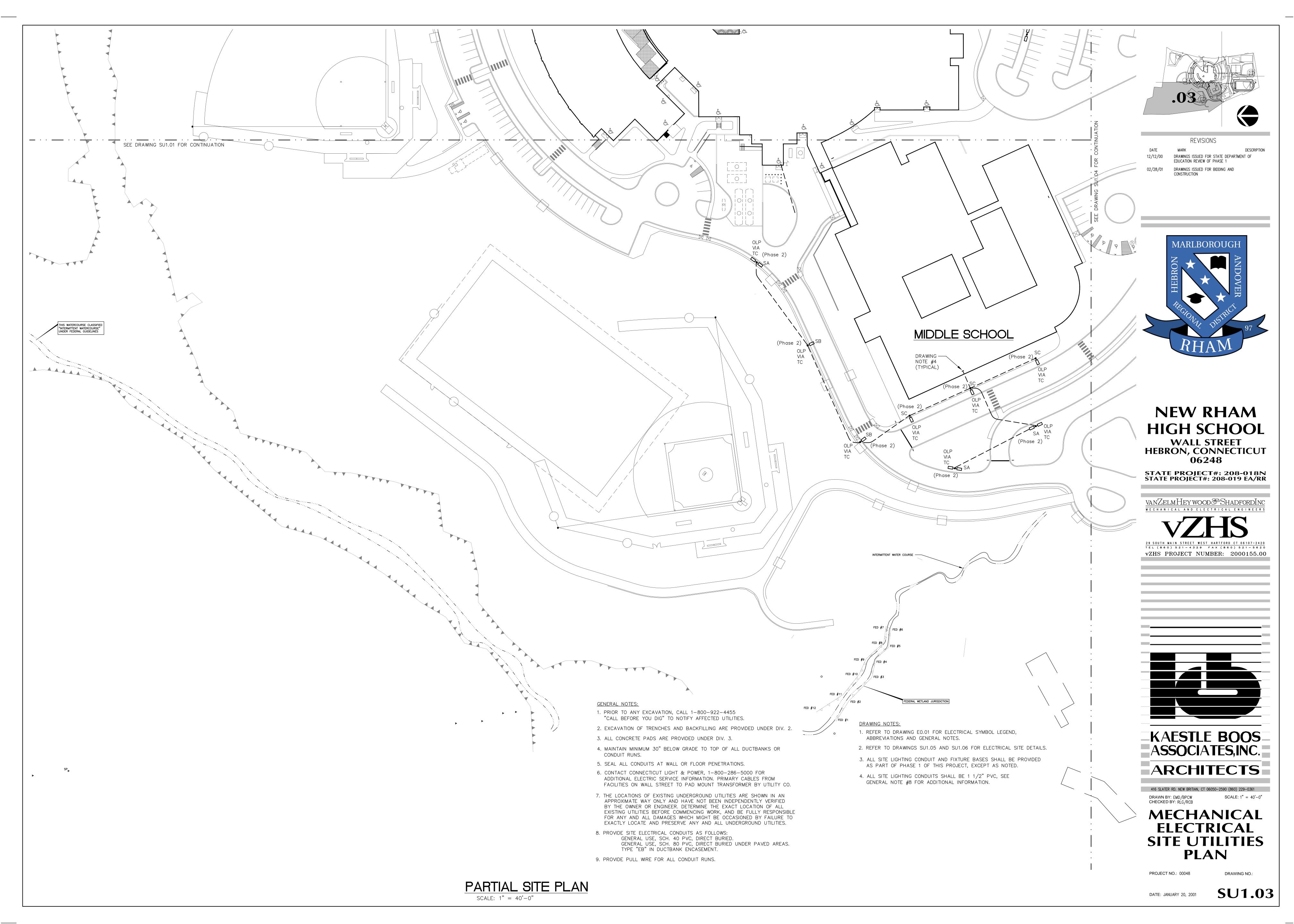
MECHANICAL ELECTRICAL SITE UTILITIES PLAN

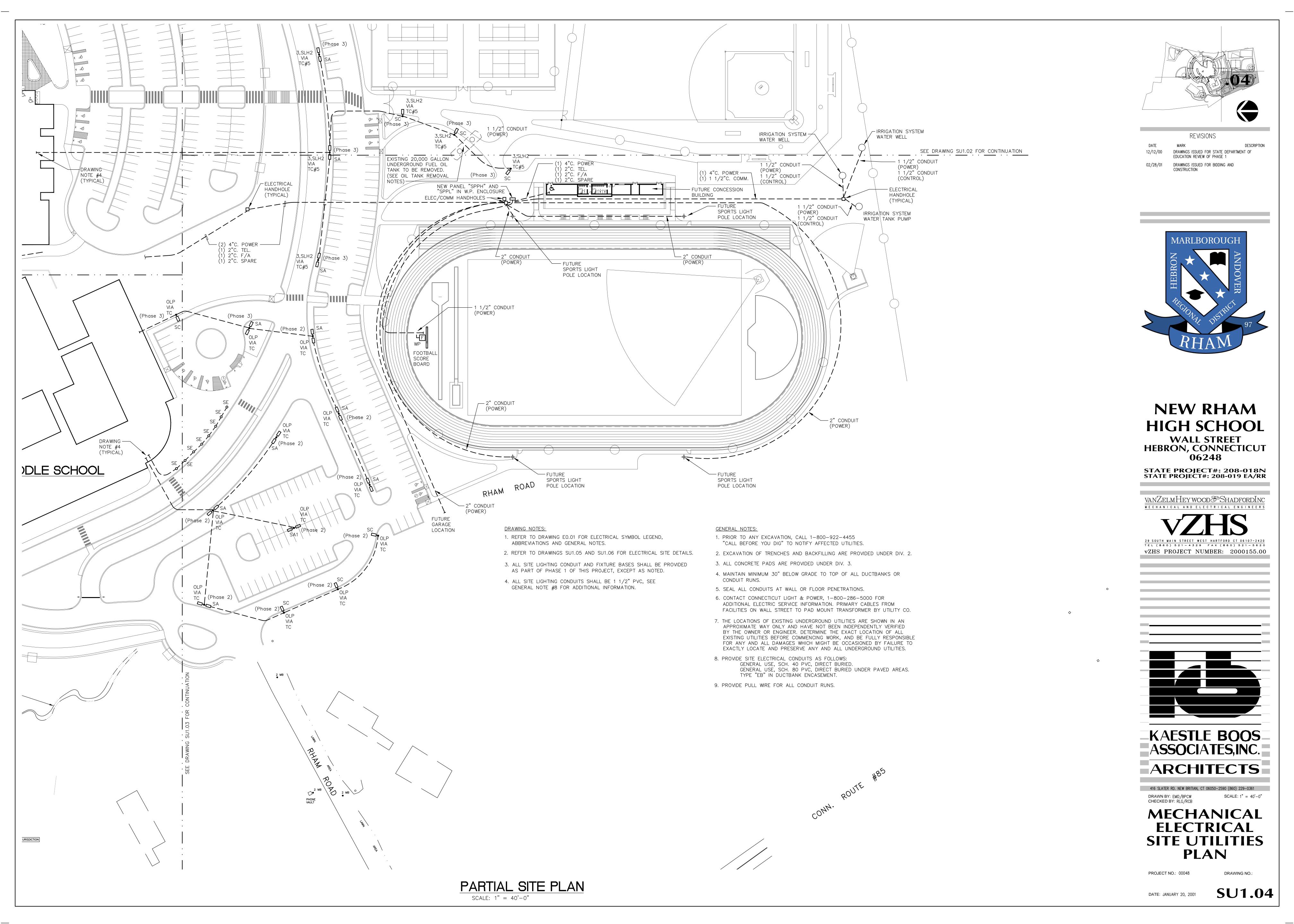
PROJECT NO.: 00048

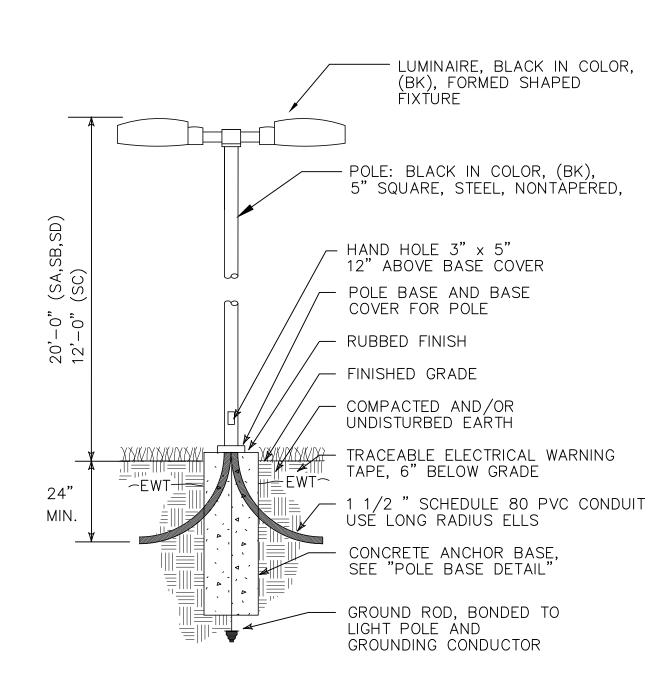
DRAWING NO.:

ΓΕ: JANUARY 20, 2001

SU1.02

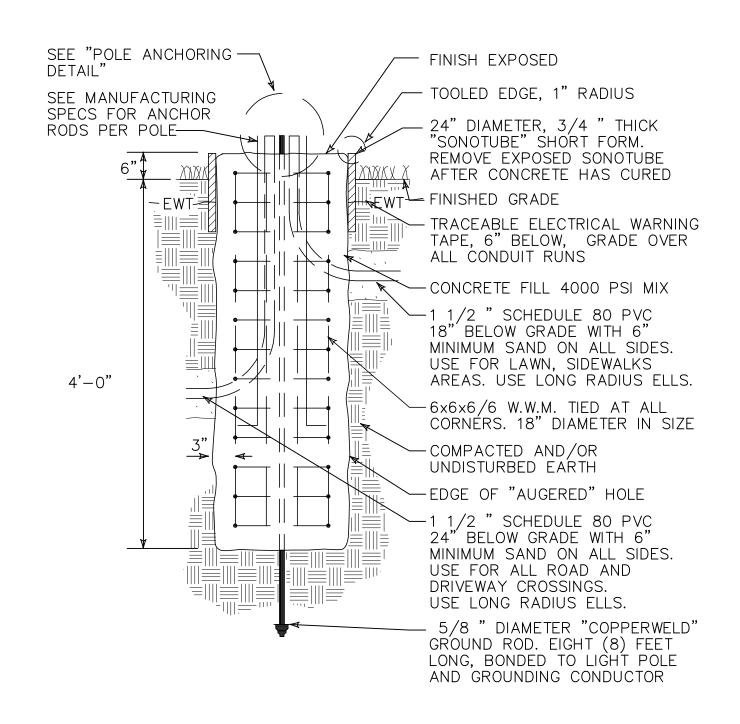






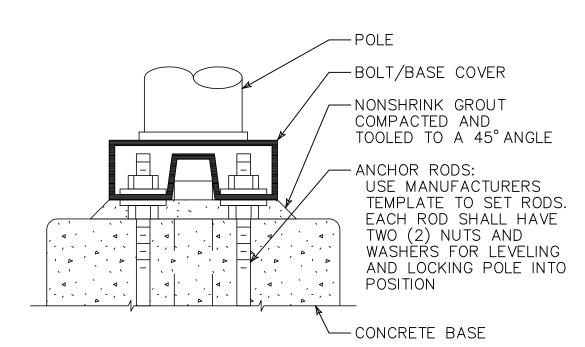
SITE LIGHTING FIXTURES TYPE "SA", "SB", "SC", "SD" DETAIL

N.T.S.



SITE LIGHTING POLE BASE

TYPE "SA", "SB", "SC", "SD" DETAIL

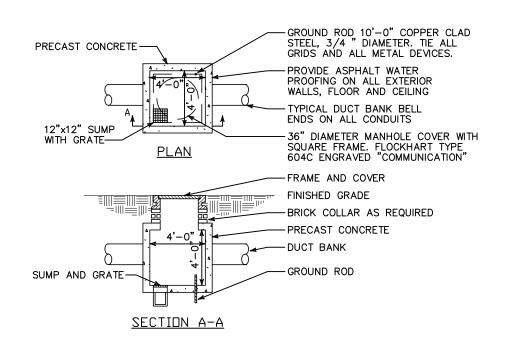


SITE LIGHTING POLE ANCHORING

TYPE "SA", "SB", "SC", "SD" DETAIL

N.T.S.

N.T.S.



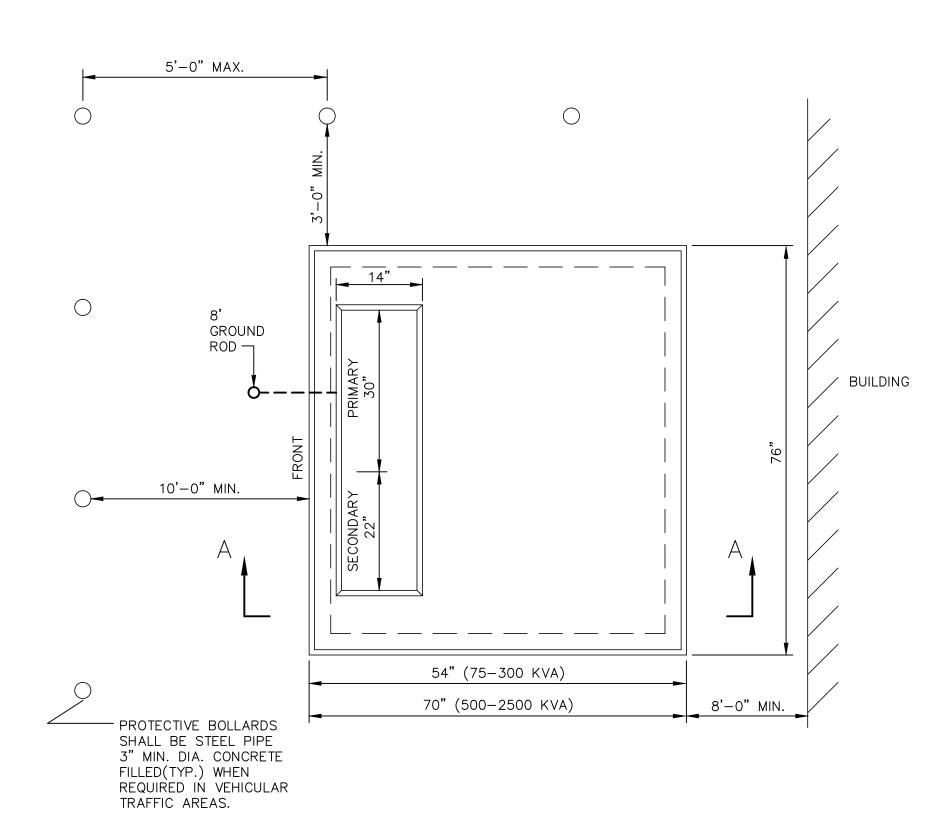
TRAFFIC RATED TELECOMMUNICATION

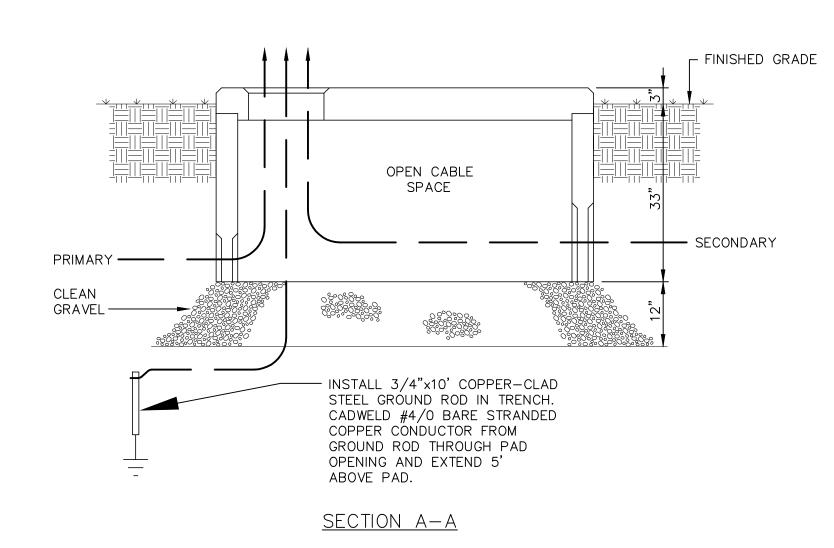
PULLBOX DETAIL

N.T.S.

1. REFER TO DETAIL, THIS SHEET, FOR TRAFFIC RATED MANHOLE COVER.

2. FURNISH FOR TEL/COMM PULLBOX LOCATED UNDER





TRANSFORMER PAD DETAIL

TRANSFORMER PAD DETAIL NOTES:

N.T.S.

- 1. PRIMARY ZONE

 A) THE PRIMARY ZONE IS RESTRICTED TO THE AREA SHOWN AND SHALL CONTAIN TWO 4" G.S. CONDUITS.

 B) THE CONDUIT SWEEPS INTO THE FOUNDATION SHALL BE GALVANIZED STEEL, 90 DEGREES BEND, 36" RADIUS.

 C) EACH CONDUIT SHOULD EXTEND A MINIMUM OF 1" TO A MAXIMUM OF 3" ABOVE THE TOP OF THE
- FOUNDATION AND SHALL HAVE THREADED ENDS.

 D) EACH CONDUIT SHALL BE PROVIDED WITH A GROUNDING TYPE CHAFE BUSHING AND SHALL BE PLUGGED UNTIL THE PRIMARY CABLES ARE INSTALLED.
- SECONDARY ZONE
 A) THE SECONDARY ZONE IS RESTRICTED TO THE AREA SHOWN AND MAY CONTAIN A MAXIMUM OF TEN 4" CONDUITS.
 B) EACH CONDUIT SHALL EXTEND A MINIMUM OF 1" TO A MAXIMUM OF 3" ABOVE THE TOP OF THE FOUNDATION AND SHALL HAVE THREADED ENDS.
 C) EACH CONDUIT SHALL BE PROVIDED WITH A GROUNDING TYPE CHAFF BUSHING AND SHALL BE PLUGGED.
- SHALL HAVE THREADED ENDS.

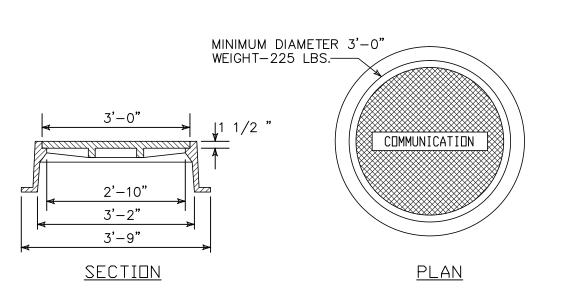
 C) EACH CONDUIT SHALL BE PROVIDED WITH A GROUNDING TYPE CHAFE BUSHING AND SHALL BE PLUGGED UNTIL THE SECONDARY CABLES ARE INSTALLED.

 3. THE GROUND GRID 'TAILS' SHALL BE BROUGHT, BELOW GRADE, INTO THE FOUNDATION WINDOW AS SHOWN.

4. THE GROUND RODS, GROUND GRID, PRIMARY NEUTRALS, SECONDARY NEUTRALS, TRANSFORMER TANK AND CONDUITS

- SHALL BE EFFECTIVELY BONDED TOGETHER.

 5. ALL GROUNDING AND BONDING SHALL BE DONE WITH COPPER WIRE. THE MINIMUM CONDUCTOR SIZE FOR BONDING METAL CONDUITS IS #4 AWG BARE COPPER; ALUMINUM WIRE IS NOT ACCEPTABLE.
- 6. GROUNDING BUSHINGS SHALL BE USED FOR BONDING ALL METAL CONDUITS.
 7. THE GROUND GRID AND ASSOCIATED CONNECTIONS REQUIRE CL&P INSPECTION PRIOR TO BACKFILLING THE AREA.
- 8. THE LOCATION AND ORIENTATION OF THE FOUNDATION MUST BE APPROVED PRIOR TO THE START OF CONSTRUCTION. SEE CL&P STANDARDS FOR LOCATION AND INSTALLATION REQUIREMENTS.
- 9. REFER TO CL&P DETAIL DRAWING FOR TRANSFORMER PAD CONSTRUCTION REQUIREMENTS. COORDINATE WITH CL&P PRIOR TO START OF WORK.



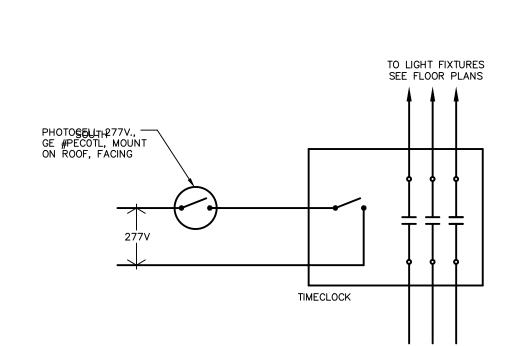
TELECOMMUNICATION PULLBOX

TRAFFIC RATED COVER DETAIL

NOTES:

1. VERIFY ALL DIMENSIONS WITH MANHOLE MANUFACTURER.

2. FURNISH FOR TEL/COMM PULLBOX LOCATED UNDER



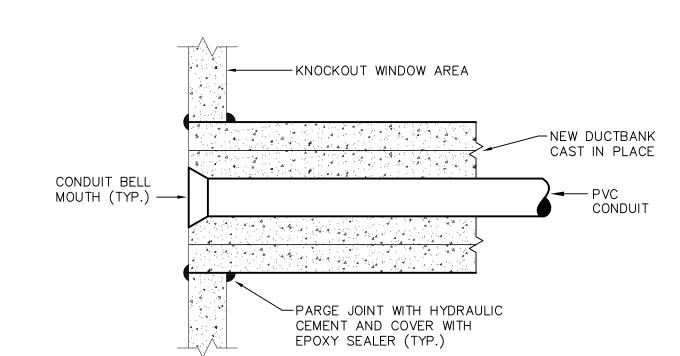
EXTERIOR LIGHTING CONTROL DIAGRAM

N.T.S.

N.T.S.

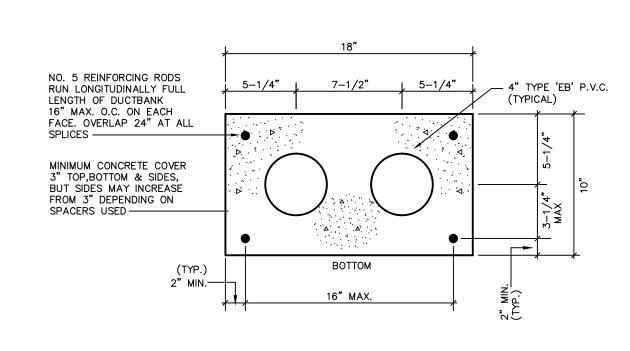
NOTES :

1. LIGHTING CIRCUITS SHALL BE WIRED FOR PHOTOCELL "ON" AND TIMECLOCK "OFF" OPERATION.



MANHOLE/PULLBOX ENTRANCE DETAIL

N.T.S.



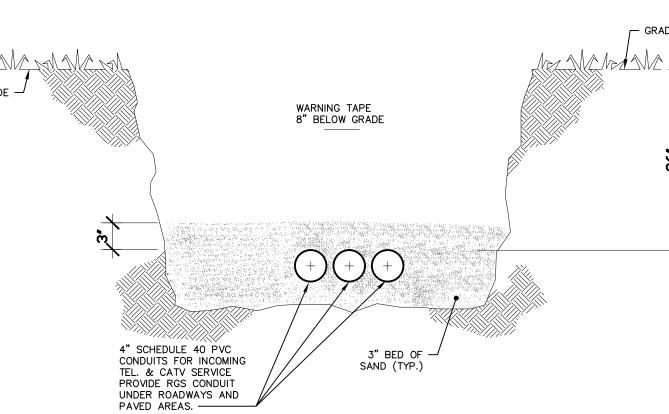
DUCTBANK TYPE "A"

DUCTBANK NOTES:

PROVIDE NON-DECAYING, NON-METALLIC SEPARATORS FOR CONCRETE ENCASED DUCTBANKS. SPACE SEPARATORS AT 4'-0" O.C. MAXIMUM.
 PROVIDE AND INSTALL RED WARNING TAPE 12" ABOVE ALL DUCTBANK RUNS.

TYPICAL DUCTBANK DETAIL

N.T.S.

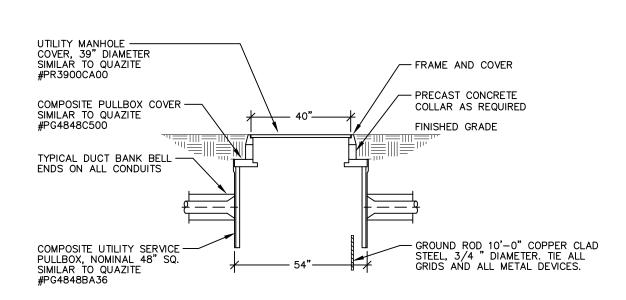


TEL/CATV TRENCH

TYPICAL TRENCH SECTION

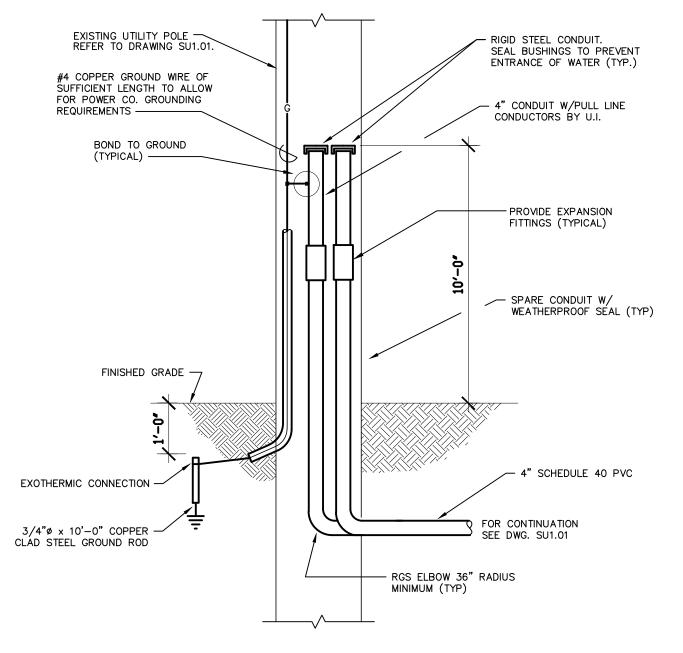
N.T.S.

NOTE: TELEPHONE/CATV/AND FIRE ALARM CONDUITS SHALL BE INSTALLED WITH A MINIMUM OF 12" SEPARATION FROM POWER CONDUITS WHEN LOCATED IN COMMON TRENCH.



DUCTBANK/PULLBOX DETAIL

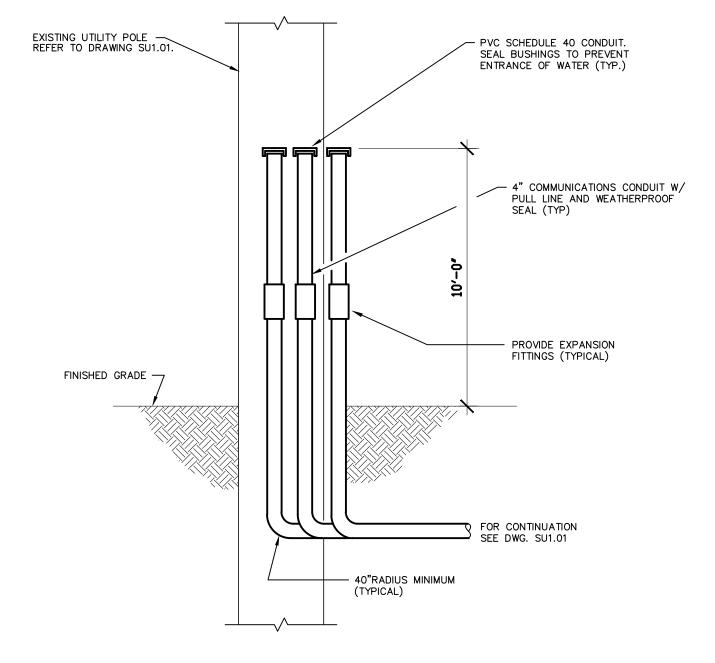
N.T.S.



PRIMARY ELECTRIC UTILITY SERVICE DETAIL

N.T.S.

1. REFER TO DRAWING SU1.01 AND DETAIL BELOW FOR MORE INFORMATION.
2. PROVIDE RGS TO PVC ADAPTERS WHERE NECESSARY.



CATV/TEL UTILITY SERVICE DETAIL

N.T.S.

NOTES:

1. REFER TO DRAWING SU1.01 AND DETAIL ABOVE FOR MORE INFORMATION.
2. PROVIDE RGS TO PVC ADAPTERS WHERE NECESSARY.

REVISIONS

DATE MARK DESCRIPTION

12/12/00 DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE 1

DRAWINGS ISSUED FOR BIDDING AND

CONSTRUCTION



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

06248

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620

VZHS PROJECT NUMBER: 2000155.00

KAESTLE BOOS ASSOCIATES,INC. ARCHITECTS

ELECTRICAL SITE DETAILS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361

DRAWN BY:

CHECKED BY:

PROJECT NO.: 00048

DRAWING NO.:

SCALE: AS NOTED

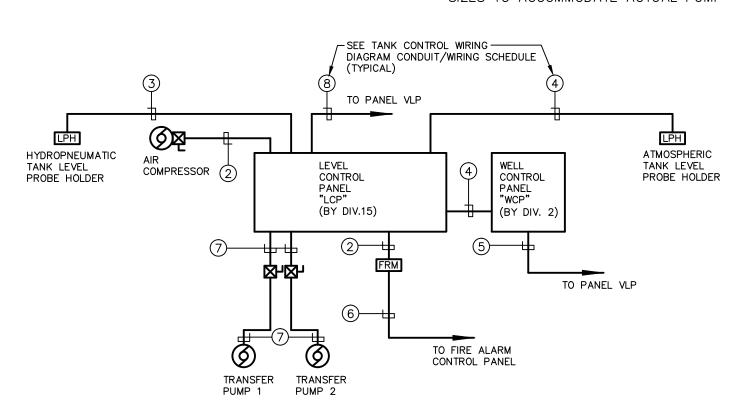
DATE: JANUARY 20, 2001

SU1.05

DOMESTIC WATER SYSTEM VAULT PANELBOARD SCHEDULE										
PANEL	LOCATION	PANEL DESCRIPTION					BRANCH CIRCUIT BREAKER		REMARKS	
FANEL		MAINS	VOLTAGE	POLES	MT'G	A.I.C.	ACTIVE	SPARE	ILLIMAINS	
VLP	DOMESTIC WATER SYSTEM VAULT	30A M.C.B.	120/208 3ø, 4W	24	SURFACE	22K	7 – 20/1	5 - 20/1	PROVIDE (12) 1P SPACE AND BUS ONL	
٧٥١										
	AREA		,							
VHP	DOMESTIC WATER SYSTEM VAULT AREA	150A M.C.B.	277/480 3ø, 4W	42	SURFACE	22K	4 - 20/3	2 - 20/3	PROVIDE (9) 1P SPACE AND BUS ONLY	
VHP							3 - 20/3	1 - 35/3		
							NOTE #1			
							1 – 75/3			

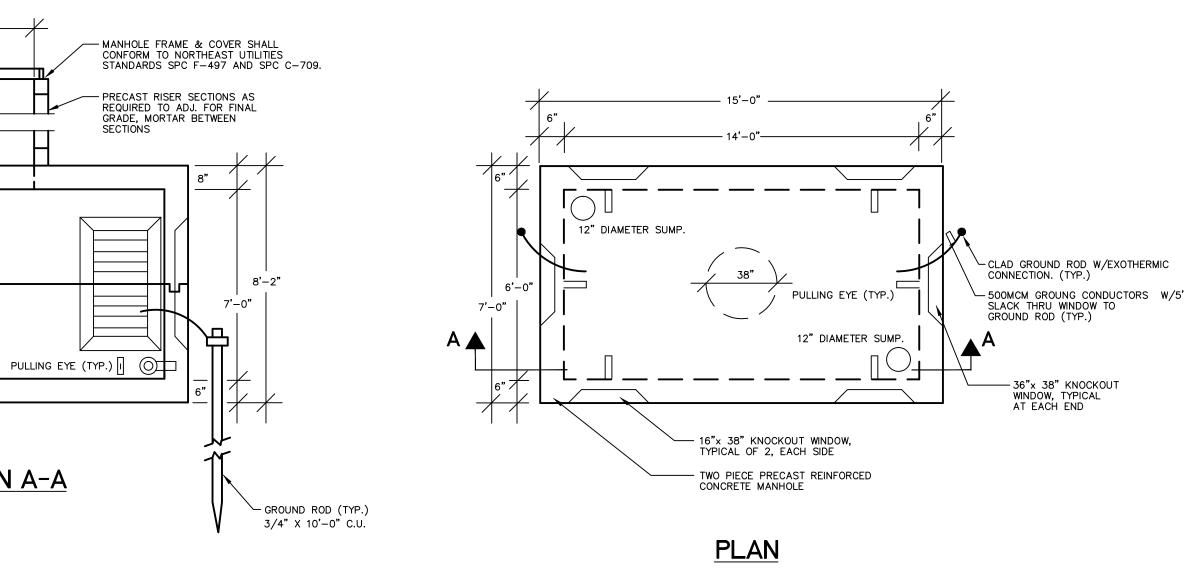
PANEL NOTES:

1. CIRCUIT BREAKERS FOR (3) FUTURE WELL PUMPS, SIZE BASED ON PUMPS UP TO 5.0HP AT 480V, 3 PHASE, ADJUST CIRCUIT BREAKER SIZES TO ACCOMMODATE ACTUAL PUMP REQUIREMENTS.



TANK CONTROL WIRING DIAGRAM CONDUIT/WIRE SCHEDULE							
DESIGNATION	WIRE						
1)		NOT USED					
2	3/4"	4#14					
3	3/4"	7#14					
4	3/4"	8#14					
5	3/4"	2#12, 1#12 GRD.					
6	1"	#16 TP, 2#12					
7	1"	3#10, 1#10 GRD.					
(8)	1 1/4"	3#4, 1#8 GRD.					

TANK CONTROL WIRING DIAGRAM

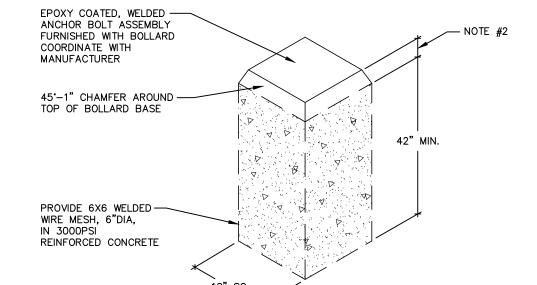


PRECAST MANHOLE DETAIL

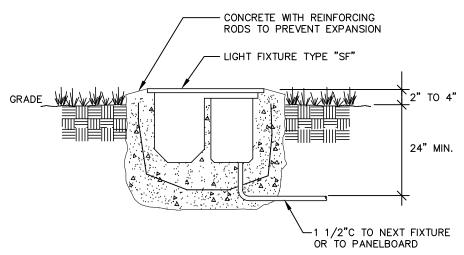
N.T.S.

- 1. FOR PRIMARY ELECTRICAL POWER APPLICATIONS.
- 2. MANHOLE SHALL CONFORM TO NORTHEAST UTILITY STANDARDS #SPC M-031, AND SPC M-032 FOR PRECAST 6'x14'x7' ELECTRIC MANHOLES.
- 3. COORDINATE DUCTBANK ENTRANCE INTO MANHOLE TO ACCOMMODATE MANHOLE
- PRECAST KNOCKOUT LOCATIONS. 4. PRIOR TO ANY CONSTRUCTION, CONTACT JOHN RUSSO AT NORTHEAST UTILITIES, (860) 638-2246.

N.T.S.



SECTION A-A



BOLLARD LIGHTING CONCRETE BASE DETAIL

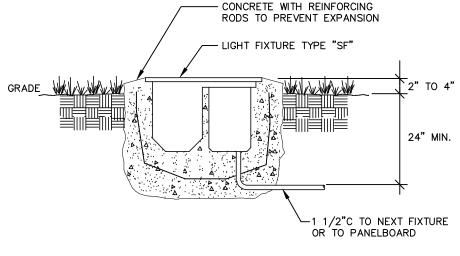
N.T.S.

NOTES:

PARGE EXTERIOR JOINTS & SEAMS — W/HYDRAULIC CEMENT & COVER W/EPOXY SEALER

BUTYL RUBBER — GASKET IN JOINT

- 1. DIMENSIONS SHOWN MAY VARY DEPENDING ON SUBMITTED LUMINAIRE. GENERAL CONTRACTOR TO VERIFY ACTUAL DIMENSIONS REQUIRED.
- 2. TYPE "SE" BASE PROJECTION ABOVE GRADE: 1" MIN. / 2"MAX. TYPE "SE1" BASE PROJECTION ABOVE GRADE: 12"



FLAG POLE SITE LIGHTING MOUNTING DETAIL

4. COORDINATE ALL CONTROL AND POWER WIRING WITH DIV.15 EQUIPMENT REQUIREMENTS. 5. REFER TO PLUMBING DRAWING P3.03 AND SITE UTILITY DRAWING SU1.01 FOR ADDITIONAL DOMESTIC WATER VAULT BASE MOUNTED TRANSFER PUMPS **HYDROPNEUMATIC** <u>HYDROPNEUMATIC</u> TRANSFER PUMPS — TWO WEATHER-PROOF, NEMA 4X, 2 DOOR, LOCKABLE ENCLOSURES ON CONCRETE PAD, SEE ELEVATION DETAILS BELOW <u>ATMOSPHERIC TAN</u> ATMOSPHERIC TAN TWO WEATHER-PROOF, LOCKABLE ENCLOSURES **ELEVATION "A" ELEVATION 'B'** ON CONCRETE PAD. LIGHTING **POWER** DOMESTIC WATER SYSTEM VAULT ELECTRICAL PLANS

1. ALL CONDUIT, FITTING AND DEVICES SHALL BE RATED NEMA 4X,

. CONDUIT RUNS FOR ELECTRICAL UTILITIES INTO BUILDING SHALL

FOLLOW TRENCH ROUTING FOR WATER SERVICE.

3. ALL EQUIPMENT IN VAULT TO BE ON STANDBY POWER.

LISTED FOR WET LOCATION APPLICATION AND CORROSION RESISTANT.

1/4" = 1'-0"

WEATHER-PROOF, NEMA 4X, 2 DOOR,
LOCKABLE ENCLOSURE, 60"W x 60"H x 12"D
MOUNTED ON 12" GALVANIZED STEEL FLOOR
STANDS. ANCHOR TO CONCRETE PAD WITH
MIN. (4) 3/4" Ø ANCHOR BOLTS.

TRANSFER PUMP COMBINATION

CONTROL PANEL

STRUCTURAL DRAWINGS

STARTER/DISCONNECT

GENERAL USE POWER OUTLET, PROVIDE 2#12,
 1#12 GND.-3/4"C, TO 20A-1P C/B IN PANEL
 "VLP". PROVIDE DEDICATED WP GFI TYPE

— SIMPLEX SUBMERSIBLE SUMP PUMP IN 24"DIA.X 18"D. FIBERGLASS BASIN.

AIR COMPRESSOR -MOUNTED ON WALL - ACCESS LADDER

- RECEPTACLE. MOUNT OUTLET AT 48" AFF 2 SUMP PUMP, 1/3HP-120V-1PH, PROVIDE 2#12, 1#12 GND.-3/4"C, TO 20A-1P C/B IN PANEL "VLP". PROVIDE DEDICATED HARD WIRE CONNECTION TO PUMP. PROVIDE A 30AMP-2P-208V NEMA TYPE 4X FUSED DISCONNECT SWITCH WITH (1) 9 AMP RK-5 T.D. FUSE.
- WELL CONTROL PANEL "WCP", PROVIDE 2#12, 1#12 GND.-3/4"C, TO 20A-1P C/B IN PANEL "VLP".
- (4) NOT USED

NOTE #1 — (TYPICAL)

<u>WCP</u>

ELEVATION "A"

LEVEL CONTROL— PANEL "LCP" (OPERATES

WELL CONTROL-PANEL "WCP"

(OPERATES

WELL PUMPS)

GRADE WALLE

TRANSFER PUMPS)

KEYED DETAIL NOTES:

- (5) FIXTURE TYPE 'VA' SHALL BE HUBBELL #EWL084R-SPDR-E1-B1-EDUB-ICCH-EDC1. PROVIDE 2#12, 1#12 GND.-3/4"C, TO 20A-1P C/B IN PANEL "VLP". MOUNT LIGHT FIXTURE AT 10'-0" ABOVE FINISH FLOOR. COORDINATE FIXTURE LOCATION WITH MECHANICAL EQUIPMENT AND PIPING, ADJUST LOCATION AS REQUIRED. PROVIDE WATERPROOF LIGHT
- 6 FIXTURE TYPE 'VEM' SHALL BE HUBBELL #N4-12-50-2. PROVIDE 2#12, 1#12GND. -3/4"C, TO 20A-1P C/B IN PANEL "VLP", NOTED IN ITEM #5, ABOVE.
- PROVIDE Q-MARK "WASH DOWN" TYPE ELECTRIC HEATER, MODEL #JUW300483, 480V-3PH-3.0KW RATED. PROVIDE 3#12, 1#12GND.,-3/4"C, FROM HEATER TO 20AMP-3P, 480V C/B IN PANEL "VHP". FURNISH HEATER WITH INTERNAL THERMOSTAT AND BUILT—IN DISCONNECT SWITCH. COORDINATE HEATER LOCATION WITH MECHANICAL EQUIPMENT AND PIPING, ADJUST HEATER LOCATION ACCORDINGLY.
- 8 AIR COMPRESSOR, 3HP-480V-3PH, PROVIDE 3#12, 1#12 GND.-1"C, TO 20A-3P C/B IN PANEL "VHP". PROVIDE 30A-3P-480V NEMA TYPE 4X FUSED DISCONNECT SWITCH WITH (3) 6 AMP RK-5
- 9 TRANSFER WATER PUMP, 15HP-480V-3PH, PROVIDE 3#10, 1#10 GND.-1"C, TO LEVEL CONTROL PANEL "LCP". PROVIDE 30A-3P-480V NEMA TYPE 4X FUSED DISCONNECT SWITCH WITH (3) 25 AMP RK-5
- 10 PROVIDE 4#2/0, 1#6 GND.-4"C FROM A 150A-3P C/B IN MAIN BUILDING PANEL "EMMDP" TO PANEL "VHP". SEE DRAWING E2.01 FOR ADDITIONAL INFORMATION. FEEDER CONDUCTORS AND CONDUIT OVERSIZED FOR VOLTAGE DROP AND LONG
- PROVIDE 3#12, 1#12 GND.-3/4"C, FROM A 20A-3P C/B IN PANEL "VHP" TO TRANSFORMER "VTX", FOR PRIMARY FEED. PROVIDE 4#10, 1#10 GND.-3/4"C, FROM TRANSFORMER "VTX" PANEL "VLP", FOR SECONDARY FEED.

WEATHER-PROOF, NEMA 4X, 2 DOOR, LOCKABLE ENCLOSURE, 60"W x 60"H x 12"D MOUNTED ON 12" GALVANIZED STEEL FLOOR STANDS. ANCHOR TO CONCRETE PAD WITH

MIN. (4) 3/4" ø ANCHOR BOLTS.

6.0 KVA, 3ø, 480V/120-208V -208V, GE #9T21A4009.

GRADE WALL

CONCRETE PAD, REFER TO — STRUCTURAL DRAWINGS

MOUNT SWITCH AND PILOT —— LIGHT AT 13'-0" ABOVE

FINISH FLOOR ADJACENT TO ACCESS LADDER AS SHOWN

- ACCESS LADDER

- PROVIDE 1/C, #10 GND.,-3/4"C, FROM TRANSFORMER TO 6" DUCTILE IRON DOMESTIC WATER SERVICE PIPE, SEE DRAWING #P3.03 FOR LOCATION. (14) PROVIDE FEEDER FOR WELL WATER PUMP, 5HP-480V-3PH, PROVIDE 3#10, 1#10 GND.-1"C, TO 20A-3P C/B IN PANEL "VHP". (TYPICAL FOR THREE PUMPS)
- (5) LEVEL CONTROL PANEL "LCP". PROVIDE WIRE AND CONDUIT PER TANK CONTROL WIRING DIAGRAM, THIS SHEET, TO A 75A-3P C/B IN PANEL "VHP". (6) PROVIDE 1/C, #4 GND.,-3/4"C, FROM PANEL "VHP" TO 6" DUCTILE IRON DOMESTIC WATER SERVICE PIPE, SEE

<u>VLP</u>

ELEVATION "B"

✓ VAULT PANEL "VLP"

120/208V, 3ø, 4W

DRAWING #P3.03 FOR LOCATION.

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

vanZelmHeywood&ShadfordInc

NEW RHAM

HIGH SCHOOL

WALL STREET HEBRON, CONNECTICUT

06248

REVISIONS

EDUCATION REVIEW OF PHASE 1

CONSTRUCTION

MARCH 4, 2002 /1

DRAWINGS ISSUED FOR BIDDING AND

MARLBOROUGH

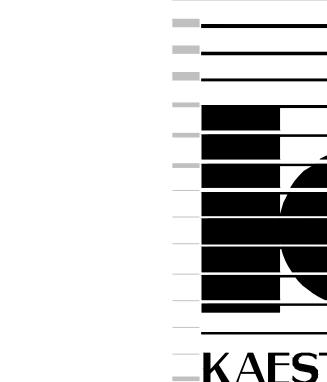
DRAWINGS ISSUED FOR STATE DEPARTMENT OF

DESCRIPTION

REVISIONS TO DOMESTIC

WATER SYSTEM VAULT.

vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

CHECKED BY: **ELECTRICAL** SITE DETAILS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361

PROJECT NO.: 00048

DRAWN BY:

DRAWING NO.:

SCALE: AS NOTED

SU1.06

Plot Scale: 1/8 =1'-0 Plot Date: February 13, 2001 at 2:43:52 PM by RLG

ELEVATIONS AT ELECTRICAL ENCLOSURES

DETAIL NOTES: 1. REFER TO KEYED DETAIL NOTES ABOVE.

1/2" = 1'-0"

	LIGHTING		POWER		SPECIAL SYSTEMS		ONE-LINE		ABBREVIATIONS
SYMBOL	DESCRIPTION	⇒ _{a,b}	DUPLEX RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK.	SYMBOL	DESCRIPTION	→	POTHEAD	SYMBOL	DESCRIPTION
○ X	CEILING MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE		COORDINATE INSTALLATION WITH ARCHITECT. DOUBLE DUPLEX RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP		FLOOR MOUNTED TEL/DATA OUTLET: SUBLETTER "R" INDICATES RECESSED BACKBOX. SUBLETTER "F" INDICATES FLUSH BACKBOX. SUBLETTER "S" INDICATED SURFACE BACKBOX (MONUMENT)		STRESSCONE	Α	AMPERE
XO	WALL MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE	⇒ _{a,b}	OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. COORDINATE INSTALLATION WITH ARCHITECT.	(D)	COMMUNICATIONS FLOOR MONUMENT WITH LFMC WHIP CONNECTION	 	CURRENT TRANSFORMER	С	CONDUIT
• ^	2'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE	$\overline{}$	SINGLE RECEPTACLE	© _w	WALL DATA/VOICE TO SYSTEMS FURNITURE	$ \rightarrow$ \leftarrow	POWER TRANSFORMER	Р	POLE
• • ×	DUAL BALLAST 2'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE	•	RECESSED FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE AND FLUSH COVER	E _w	WALL POWER TO SYSTEMS FURNITURE		FUSE	W	WIRE
• X	1'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE			⊙ p	RECESSED FLOOR BOX WITH FLUSH COVER, FOR DATA JACKS		FUSE CUT OUT	Т	TELEPHONE SERVICE
• ^	2'x2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE	⊕ _{RM}	RECESSED FLOOR BOX WITH THREE DUPLEX RECEPTACLE AND FLUSH COVER				FUSE & SWITCH	FA	FIRE ALARM
X •	TYPICAL CEILING MOUNTED FLUORESCENT FIXTURE— NORMAL/EMERGENCY, SEE PLAN AND FIXTURE SCHEDULE FOR BATTERY OR INVERTER POWER	-	FLUSH FLOOR BOX WITH SPECIAL PURPOSE RECEPTACLE AMPERAGE AND VOLTAGE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH	>	COMBINATION DATA/TELEPHONE OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE		SWITCH	NF	NON-FUSED
	CONTINUOUS FLUORESCENT LIGHT FIXTURE		EQUIPMENT MANUFACTURER.	•	TELEPHONE OUTLET WITH BACKBOX AND EMPTY CONDUIT,		CIRCUIT BREAKER	WP	WEATHERPROOF
● X	WALL WASHER LIGHT FIXTURE		DUPLEX RECEPTACLE-ONE OUTLET SWITCHED	w >	STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE. SUBLETTER "W" INDICATES WALL-MOUNTED;	$\prec\leftarrow \hookrightarrow \succ$	DRAWOUT CIRCUIT BREAKER	C/B	CIRCUIT BREAKER
• •	LIGHT ON EMERGENCY CIRCUIT	⊕,	DUPLEX RECEPTACLE. SUBLETTER "C" INDICATES CEILING MOUNTED	► _{HP}	HANDICAP PAY TELEPHONE OUTLET WITH BACKBOX AND CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE	$\prec\leftarrow\Box\rightarrow\succ$	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER	AFF	ABOVE FINISHED FLOOR
→ ×	FLUORESCENT STRIP LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE	⊕ _н	DUPLEX RECEPTACLE FOR TELEVISION. COORDINATE MOUNTING HEIGHT WITH ARCHITECT	\triangleright	DATA OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAGLINE	← ^—	BUSPLUG CIRCUIT BREAKER	AFG	ABOVE FINISHED GRADE
_ ▽ ▽	POWER LIGHT TRACK WITH NUMBER OF FIXTURES AS INDICATED ON PLANS; SUBLETTER INDICATES FIXTURE TYPE	E	ELECTRICAL FLOOR MONUMENT WITH LFMC WHIP CONNECTION	 ▷ _{SB}	DATA OUTLET AT "SMART BOARD" WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAGLINE	<u></u> ← `	BUSPLUG FUSE & SWITCH	CIR	CIRCUIT
YYY	SINGLE OR DUAL HEAD, WALL MOUNTED, BATTERY OPERATED REMOTE EMERGENCY LIGHT	-«	SPECIAL—PURPOSE OUTLET. AMPERAGE AND VOLTAGE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER	⟨TV⟩	TELEVISION CABLE OUTLET; MOUNT AT 18" AFF UNLESS OTHERWISE NOTED.	- <u>+</u>	GROUND	TX	TRANSFORMER
	DOUBLE FACED CEILING OR WALL—MOUNTED, EXIT SIGN WITH EMERGENCY POWER BACK UP AND DIRECTIONAL CHEVRONS AS INDICATED ON PLANS SOLID AREA INDICATES DIRECTION OF EXIT FACE. CHEVRON VISIBLE FROM	⇒ a,b	DUPLEX RECEPTACLE, EMERGENCY POWER; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF.	<u> </u>	CEILING-MOUNTED, SOUND SYSTEM SPEAKER		THERMAL OVERLOAD	MD	MOTORIZED DAMPER
	ANY DIRECTION UP TO 100 FEET.	a,b	SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. COORDINATE INSTALLATION WITH ARCHITECT.	<u> </u>	WALL-MOUNTED, SOUND SYSTEM SPEAKER	©	RELAY/COIL	PE	PRIMARY ELECTRIC SERVICE
	SINGLE FACED CEILING OR WALL-MOUNTED EXIT SIGN WITH EMERGENCY POWER BACK UP AND DIRECTIONAL CHEVRONS AS INDICATED ON PLANS SOLID AREA INDICATES DIRECTION OF EXIT FACE. CHEVRON VISIBLE FROM	→ _{a,b}	DOUBLE DUPLEX RECEPTACLE, EMERG. POWER; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP	S _v	SOUND SYSTEM VOLUME CONTROLLER	\vdash	N/O CONTACT	SE	SECONDARY ELECTRIC SERVICE
	ANY DIRECTION UP TO 100 FEET.	→ a,b	OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. COORDINATE INSTALLATION WITH ARCHITECT.		SOUND SYSTEM MICROPHONE JACK; SUBLETTER "F" INDICATES FLOOR-MOUNTED. SUBLETTER "W" INDICATES WALL-MOUNTED	<u> </u>	N.C. CONTACT	RTU	ROOFTOP UNIT
	CEILING OR WALL-MOUNTED, EMERGENCY LIGHT UNIT WITH SELF CONTAINED BATTERY FIXTURE SHALL MONITOR LIGHTING CIRCUIT IN AREA.		SURFACE RACEWAY WITH OUTLETS AS INDICATED ON PLANS, MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED	S _{HA}	SOUND SYSTEM SPEAKER, HIGH AMBIENT NOISE LEVEL TYPE		PROTECTIVE RELAY	TCP	TEMPERATURE CONTROL PANEL
Ш	EMERGENCY LIGHTING BATTERY UNIT	⊕ CLG	DUPLEX RECEPTACLE, CEILING MOUNTED COORDINATE LOCATION WITH ARCHITECT	KP KP	SECURITY SYSTEM KEYPAD	A	AMMETER	SD	SMOKE DAMPER
AOR 🖂	AREA OF REFUGE INDICATOR LIGHT WITH BATTERY PACK	_	ELECTRICAL PANEL 480/277 VOLT	IM	SECURITY SYSTEM INFRARED MOTION SENSOR, CEILING MOUNTED	AS	AMMETER SWITCH	IG	ISOLATED GROUND
	SWITCHES		ELECTRICAL PANEL 120/208 VOLT	\wedge	SECURITY SYSTEM INFRARED MOTION SENSOR, WALL MOUNTED	V	VOLTMETER	RMC	RIGID METALLIC CONDUIT
<u> </u>	SINGLE-POLE SWITCH		SPECIAL-PURPOSE ELECTRICAL PANEL OR EQUIPMENT	SIREN	SECURITY SYSTEM INTERIOR SIREN, WALL MOUNTED	VS	VOLTMETER SWITCH	EMT	ELECTRIC METALLIC TUBING
53	SQUASH COURT AREA LIGHT SWITCH	T	ELECTRICAL POWER TRANSFORMER	•	SECURITY SYSTEM DOOR CONTACT SWITCH	₩HM→	WATTHOUR METER	FMC	FLEXIBLE METALLIC TUBING
S ₃	3-WAY SWITCH	\boxtimes	MAGNETIC STARTER	©	WALL CLOCK WITH HANGER TYPE OUTLET	— <u>₩</u> M→	WATTMETER	TV	TELEVISION
S ₄	4-WAY SWITCH	El XX XX	FUSED DISCONNECT SWITCH WITH SIZE/RATING	E _{PC}	EMERGENCY CALL-FOR-AID SWITCH	WHD->	WATTHOUR DEMAND METER	PVC	POLYVINYL CHLORIDE CONDUIT
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SINGLE-POLE SWITCH AND PILOT LIGHT		NON-FUSED DISCONNECT SWITCH	E _{PB}	EMERGENCY CALL—FOR—AID PUSHBUTTON	- 3 \{	TRANSFORMER	EF	EXHAUST FAN
S.	BOILER EMERGENCY SWITCH		COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH	<u>—, 3</u>	EMERGENCY CALL-FOR-AID VISUAL INDICATING UNIT		SHIELDED TRANSFORMER	REF	ROOF EXHAUST FAN
S be	SINGLE—POLE DIMMER SWITCH	Ø	ELECTRIC MOTOR	E	EMERGENCY CALL-FOR-AID VISUAL/AUDIO INDICATING UNIT		AUTO TRANSFORMER	AHU	AIR HANDLING UNIT
S _D	3-WAY DIMMER SWITCH	VFD	VARIABLE FREQUENCY DRIVE		INTERCOM STATION; SUBLETTER "M" INDICATES MASTER	─ • ⊢ ·	LIGHTNING ARRESTER	CUH	CABINET UNIT HEATER
\$ D3	SINGLE—POLE SWITCH WITH THERMAL OVERLOAD PROTECTION	J	FLOOR OR CEILING MOUNTED JUNCTION BOX	м		<u></u>	GENERATOR	EWC	ELECTRIC WATER COOLER
\$ T.	ROTARY TIMER SWITCH	Ūон	CEILING MOUNTED JUNCTION BOX AT PRESENTATION VIDEO DEVICE, COORDINATE LOCATION WITH ARCHITECT AND TECHNOLOGY CONSULTANT'S		FIRE	Δ	DELTA	EWH	ELECTRIC WATER HEATER
S 1M	THREE POSITION AC SWITCH	-	("T" SERIES), DRAWINGS.	М	FIRE ALARM MAGNETIC DOOR HOLD DEVICE	Y	WYE	GFI	GROUND FAULT INTERRUPTER
SK	SINGLE-POLE KEYED SWITCH	J _{MP}	FLOOR OR CEILING MOUNTED JUNCTION BOX AT MOVEABLE PARTITION	FS	SPRINKLER FIRE ALARM FLOW SWITCH	€#	KEY INTERLOCK	MAU	MAKE-UP AIR UNIT
	KEYED, 3-WAY SWITCH	Jw	WIRELESS DEVICE JUNCTION BOX	SS	SPRINKLER FIRE ALARM SUPERVISORY SWITCH	N•\ •E	AUTOMATIC TRANSFER SWITCH (A.T.S.)	WG	WIRE GUARD
> K3	KEYED, 4-WAY SWITCH	- J	WALL MOUNTED JUNCTION BOX	PS	SPRINKLER FIRE ALARM PRESSURE SWITCH	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	, ,	S&P	SPACE AND PROVISION
S K4	ELECTRIC BASKETBALL BACKBOARD RAISE/LOWER SWITCH FURNISHED WITH	Ū HD	WALL MOUNTED JUNCTION BOX AT ELECTRIC HAND DRYER, UNIT FURNISHED BY OTHERS, INSTALLED AND WIRED BY DIVISION 16	Ē	MASTER FIRE ALARM PULL BOX		MAIN LUG ONLY PANELBOARD	Е	EXISTING TO REMAIN
S KBB	BACKBOARD BY OTHERS, INSTALLED AND WIRED BY DIV. 16 MOTORIZED DOOR RAISE/LOWER SWITCH FURNISHED WITH DOOR UNIT BY	J BBW	WALL MOUNTED JUNCTION BOX AT BACKBOARD WINCH	SE	SMOKE DETECTOR FOR ELEVATOR RECALL CONTROLS	<u> </u>		ER	EXISTING EQUIPMENT TO REMAIN
S 2P	OTHERS, INSTALLED AND WRED BY DIV. 16. OCCUPANCY SENSOR SWITCH	J) MM	WALL MOUNTED JUNCTION BOX AT MAT MOVER	*	EXTERIOR REMOTE FIRE ALARM FLASHING STROBE LIGHT		MAIN CIRCUIT BREAKER PANELBOARD	RE	REMOVE EXISTING EQUIPMENT
20	CEILING MOUNTED OCCUPANCY SENSOR	IJ ^{MB}	WALL MOUNTED JUNCTION BOX AT MOVEABLE BLEACHERS	FACP	FIRE ALARM CONTROL PANEL		MAIN GINGOTT BREAKEN T ANELBOARD	RL	RELOCATE EXISTING EQUIPMENT
So 2	CEILING MOUNTED OCCUPANCY SENSOR WITH 2 SETS OF CONTACTORS	J BD	WALL MOUNTED JUNCTION BOX FOR BOOK DETECTION SYSTEM	RAP	REMOTE ANNUNCIATOR PANEL		CIRCUIT BREAKER WITH AMP FRAME	NE	NEW LOCATION OF EXISTING EQUIPMENT
C C	CONTACTOR, COMPLETE WITH NEMA ENCLOSURE	J) SEN	JUNCTION BOX AT ELECTRONIC FAUCET SENSOR TRANSFORMER MOUNTED ABOVE GRID CEILING. UNIT FURNISHED AND INSTALLED BY OTHERS,	F	MANUAL FIRE ALARM PULL STATION	XXXAF	OVER AMP TRIP	NIC	NOT IN CONTRACT
TC	TIME CLOCK, AS INDICATED ON PLANS	J SB	WIRED BY DIVISION 16. JUNCTION BOX AT ELECTRONIC "SMART BOARD", COORDINATE EXACT		FIRE ALARM VISUAL INDICATING UNIT			NL	LIGHT FIXTURE WIRED FOR "NIGHT LIGHT" OPERATION
PC	PHOTOCELL	-	LOCATION WITH ARCHITECT AND TECHNOLOGY CONSULTANT'S ("T" SERIES), DRAWINGS.		FIRE ALARM SPEAKER/VISUAL INDICATING UNIT	/ _{XXX}	FUSED DISCONNECT SWITCH, WITH SWITCH SIZE	LV	LOW VOLTAGE
•	PUSHBUTTON SWITCH	<u> </u>	WEATHER PROOF JUNCTION BOX AT ELECTRIC HEAT TRACE CABLE FURNISHED, INSTALLED AND WIRED BY DIVISION 16	VECP	VOICE EVACUATION CONTROL PANEL	\\ \frac{\}{\times \times \tim	OVER FUSE SIZE	ST	SHUNT TRIP
E,G	EMERGENCY SHUT-OFF SWITCH. SUBLETTER "E" INDICATES ELECTRICAL.	=	HARD-WIRED EQUIPMENT CONNECTION	F	FIRE ALARM CEILING-MOUNTED SPEAKER	_			
KE,KG H	SUBLETTER "G" INDICATES GAS MASTER EMERGENCY SHUT-OFF/KEYED RESET SWITCH. SUBLETTER "KE"	R	RELAY	■M	FIRE ALARM MINI SPEAKER/STROBE			J	
	INDICATES ELECTRICAL. SUBLETTER "KG" INDICATES GAS AQUASTAT	FBS	FUSOMATIC EMERGENCY BOILER SHUT-OFF SWITCH	H _В	AUTOMATIC FIRE ALARM HEAT DETECTOR. SUBLETTER "B" INDICATES 200 DEGREES F. HEAT DETECTOR	_	LEGEND NOTES:		
PP	OCCUPANCY SENSOR POWER PACK	-	WIRING	▶ FP	FIREFIGHTERS TELEPHONE OUTLET	_			BOLS AND ABBREVIATIONS AND DEFINE ITEMS INDICATED ON
SDL	DOCK LEVELER CONTROL FURNISHED WITH UNIT, INSTALLED AND WIRED BY DIV. 16	·	BRANCH CIRCUIT POWER WIRING	PA□R	AREA OF REFUGE TELEPHONE OUTLET	_			BREVIATIONS ARE NECESSARILY
SKMP	MOTORIZED PARTITION SWITCH FURNISHED WITH PARTITION BY OTHERS, INSTALLED AND WRED BY DIV. 16		BRANCH CIRCUIT SWITCHED WIRING	►EM	EMERGENCY TELEPHONE OUTLET	_	5525 511 Hill 1 1105201.		
SKBL	MOTORIZED BLEACHER SWITCH FURNISHED WITH BLEACHERS BY OTHERS, INSTALLED AND WRED BY DIV. 16		BRANCH CIRCUIT AC OR DC CONTROL WIRING	S	AUTOMATIC FIRE ALARM SMOKE DETECTOR	_			
SKMC	MOTORIZED CURTAIN SWITCH FURNISHED WITH CURTAIN BY OTHERS, INSTALLED AND WRED BY DIV. 16	Ем	BRANCH CIRCUIT EMERGENCY AC OR DC WIRING. 3/4" CONDUIT, 2#10 AND	SB	BEAM TYPE SMOKE DETECTOR	_			1,PP1
		CT	1#10 GROUND, UNLESS OTHERWISE NOTED CABLETRAY	Ss	AUTOMATIC FIRE ALARM SMOKE DETECTOR WITH SOUNDER BASE	_	DESIGNATES LIGHT FIXTURE	TYPE	/,,,,,
		<u> </u>	CONDUIT DOWN	DS	DUCT SMOKE FIRE ALARM DETECTOR	_	C 2 DESIGNATES BRANCH CIRCL	IT NUMBER	DENOTES — DENOTES
		 		DH	DUCT HEAT FIRE ALARM DETECTOR		□ → DESIGNATES SWITCH ARRAN	GEMENT	CIRCUIT NUMBER PANEL NA

FIRE ALARM AUDIO AND VISUAL UNITS WITH HIGH OUTPUT AUDIO UNIT

SMOKE DETECTOR TEST SWITCH

CONDUIT UP

HOME RUN. 3/4" CONDUIT, 2#12 AND 1#12 GROUND, UNLESS OTHERWISE NOTED. NOTE: HOME RUN SHALL BE FROM FIRST ELECTRICAL DEVICE BACKBOX IN CIRCUIT TO ELECTRICAL PANEL

REVISIONS

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II

DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

DATE JANUARY 29, 2001

FEBRUARY 21, 2001

JUNE 22, 2001

NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

<u>vanZelmHeywood&ShadfordInc</u>

TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



→ DENOTES CIRCUIT NUMBER PANEL NAME

PANEL/CIRCUIT NOMENCLATURE

LIGHTING FIXTURE NOMENCLATURE

REFERENCE DRAWING: E1.17.

REFERENCE DRAWING: E1.17.

REFERENCE DRAWINGS: E1.01 AND E4.02.

ALTERNATE NUMBER 3

ALTERNATE NUMBER 6

ALTERNATE NUMBER 7

ALTERNATE NUMBER 8

TYPICAL CIRCUITING DETAIL

REPLACE PENDANT MOUNTED LIGHT FIXTURES, TYPE "F", IN ALL TYPICAL CLASSROOMS AT AREAS "A" AND "B" ON MAIN AND UPPER LEVELS WITH LIGHT FIXTURE TYPE "A", 3 LAMP, PARABOLIC LENS 2'x4' RECESSED TROFFER AND WITH LIGHT FIXTURE TYPE "B", 3 LAMP, PARABOLIC LENS 2'x2' RECESSED TROFFER FIXTURES. PROVIDE (8) TYPE "A" AND (4) TYPE "B" LIGHT FIXTURES IN A TYPICAL "SMALL" CLASSROOM, SUCH AS ROOMS 1103, 1104, 1105, ETC. AND (10) TYPE "A" AND (5) TYPE "B" LIGHT FIXTURES IN A TYPICAL "LARGE" CLASSROOM, SUCH AS ROOMS 1111 AND 1115, ETC.. WIRE ALL FIXTURES FOR TWO-LEVEL SWITCHING IN EACH ROOM.

PROVIDE POWER CIRCUITS AND FINAL CONNECTIONS TO (3) ADDITIONAL MOTORIZED BLEACHER UNITS IN AUXILIARY GYM 1802. EACH CIRCUIT SHALL BE 2#12, 1#12GRD., 3/4"CONDUIT TO A SPARE 20AMP, 1P CIRCUIT BREAKER IN PANEL "LP1H1B". MAKE ALL CONNECTIONS TO NEW BLEACHER UNITS AND ASSOCIATED WALL CONTROL SWITCHES AS NOTED ON "TYPICAL ELECTRICAL

POWER CIRCUITS AND FINAL CONNECTIONS TO ALL MECHANICAL EQUIPMENT ASSOCIATED WITH THE PROVISION OF CHILLER UNIT #3, INCLUDING POWER FOR PUMPS P-12, P-15 AND CHILLER #3.

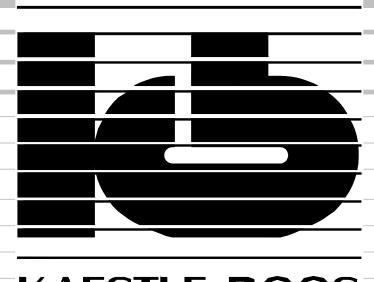
REVISE POWER CIRCUIT(S) AND FINAL CONNECTIONS TO PROVIDE (2) MOTORIZED PARTITION UNITS IN

LIEU OF A SINGLE MOTÒRIZED CURTAIN BETWEEN MAIN GYM 1801 AND AUXILIARY GYM 1802.

OPERATOR WIRING DIAGRAM FOR BACKBOARD, PARTITION, CURTAIN, OR BLEACHER".

ELECTRICAL PROJECT ALTERNATE NOTES:

REFERENCE DRAWINGS: E1.02, E1.04, E1.20 AND E1.22.



ASSOCIATES,INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY: MSA SCALE: NONE CHECKED BY: RLG

ELECTRICAL SYMBOL LIST

PROJECT NO.: 00048

DRAWING NO.:

E0.01

DATE: JANUARY 20, 2001

File Name: egeninfo.dwg 09/19/02 09:00:59 User ID: rlg

<u>WIRING NOTES:</u>

SPECIAL CONDITIONS.

- A. RACEWAYS AND WIRING ARE INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- C. ALTHOUGH ALL FEEDER AND BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE FEEDER AND BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- D. WHEN THE COMBINING OF CIRCUITS OR HOMERUNS IS ALLOWED. RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (THREE PHASE AND THREE NEUTRALS) AND GROUNDING CONDUCTOR UNLESS OTHERWISE INDIČATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE PHASE CIRCUIT, EXCEPT FOR LIGHTING CIRCUITS, UNLESS AN OVERSIZED NEUTRAL IS SPECIFICALLY INDICATED.
- E. WIRING INDICATED BY CIRCUIT NUMBER SYMBOL SHALL INCLUDE A NEUTRAL WHEN THE LOAD SERVED HAS PROVISIONS FOR, OR REQUIRES A NEUTRAL. TYPICALLY, ALL FEEDERS WILL REQUIRE A NEUTRAL, EXCEPT MOST MOTOR CIRCUITS.
- F. WIRE AND RACEWAY SIZES INDICATED ON HOMERUNS SHALL BE CONTINUOUS THROUGHOUT THE CIRCUIT.
- G. RACEWAYS SHALL BE AS REQUIRED AND INDICATED IN THE SPECIFICATIONS. H. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.

MODULAR SYSTEMS FURNITURE CONNECTION NOTES:

AT WALL POWER JUNCTION BOX LOCATIONS FOR MODULAR SYSTEMS FURNITURE . $oldsymbol{\mathfrak{C}}$ PROVIDE A 4"x4"x2" OUTLET BOX WITH PLASTER RING, AND BLANK PLATE WITH A 1" DIA. 90° FLEX CONDUIT FITTING FOR CONNECTION TO FURNITURE POWER WHIP FITTING. POWER WHIP FURNISHED WITH FURNITURE BY OTHERS, INSTALLED AND WIRED TO FURNITURE BY DIV. 16. PROVIDE 3/4"CONDUIT FROM JUNCTION BOX TO LOCAL POWER PANEL, PROVIDE TWO SEPARATE CIRCUITS IN EACH WORKSTATION, UP TO (4) WORKSTATIONS PER INDIVIDUAL CIRCUIT. PROVIDE DEDICATED CIRCUITS FOR PRINTERS AND A SEPARATE DEDICATED CIRCUIT FOR PHOTOCOPIERS. MODULAR FURNITURE FURNISHED BY OTHERS WITH BUILT-IN POWER OUTLETS PRE-WIRED WITH WIRING HARNESS.

AT WALL DATA/VOICE JUNCTION BOX LOCATIONS FOR MODULAR SYSTEMS FURNITURE, $oldsymbol{\mathbb{O}}$ PROVIDE A 4"x4"x2" OUTLET BOX WITH PLASTER RING, AND BLANK PLATE WITH A 1" DIA BUSHED OPENING FOR CONNECTION TO FURNITURE LOW VOLTAGE RACEWAY. DATA/VOICE CABLING AND CONNECTIONS BY OWNER'S SYSTEMS VENDORS. PROVIDE (2) 1" CONDUITS FROM JUNCTION BOX TO CEILING PLENUM SPACE.

GENERAL LIGHTING PLAN NOTES:

- A. FOR LIGHTING FIXTURE DESCRIPTIONS, REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E4.01.
- B. FOR ACTUAL LOCATION OF CEILING MOUNTED LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING DRAWING(S).
- C. FOR ACTUAL LOCATION OF WALL MOUNTED LIGHTING FIXTURES AND TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS.
- D. ALL EXIT SIGNS SHALL BE WIRED AHEAD OF ANY SWITCHED LEGS ON LOCAL LIFE SAFETY LIGHTING BRANCH CIRCUIT.
- E. EMERGENCY BATTERY UNITS AND BALLASTS SHALL BE WIRED AHEAD OF ANY SWITCHED LEGS ON LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING.
- F. A LIGHT SWITCH, (OR OCCUPANCY SENSOR SWITCH), IN A SPACE SHALL CONTROL LIGHTING
- G. REFER TO LIGHTING DETAILS ON DRAWING E3.01 FOR TYPICAL WIRING SCHEMATICS.

EXCLUSIVELY IN THAT SPACE UNLESS OTHERWISE INDICATED.

- H. INSTALL CONDUIT AND WIRING FOR EXTERIOR BUILDING MOUNTED LIGHT FIXTURES, CONCEALED WITHIN BUILDING, NOT EXPOSED ON BUILDING EXTERIOR.
- I. EXISTING LIGHT FIXTURES TO REMAIN, WITHIN CONTRACT AREAS, SHALL BE CLEANED AND RELAMPED WITH NEW LAMPS SIMILAR TO NEW FIXTURES.

GENERAL POWER AND SIGNAL PLAN NOTES:

- A. CONNECT ALL WIRING DEVICES TO THE PANELBOARD(S) NOTED, UNLESS OTHERWISE INDICATED ON THIS DRAWING.
- B. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- C. REFER TO ARCHITECTURAL EQUIPMENT PLANS AND CASEWORK ELEVATION DRAWINGS FOR OUTLET REQUIREMENTS AND LOCATIONS.
- D. REFER TO POWER AND SIGNAL RISER AND DETAIL DRAWINGS FOR TYPICAL WIRING SCHEMATICS AND INSTALLATION DETAILS.
- E. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, SWITCHES, FIRE ALARM DEVICES, ETC. WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS PRIOR TO START OF WORK, REQUEST CLARIFICATIONS FROM ARCHITECT PRIOR TO INSTALLATION.

GENERAL PROJECT SCOPE NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL STARTERS, DISCONNECT SWITCHES, BRANCH CIRCUIT WIRING AND ASSOCIATED DEVICES TO POWER MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, BOILERS, PUMPS, AND AIR HANDLING UNITS. REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.02 FOR EXACT REQUIREMENTS.
- 2. ALL CLASSROOMS, OFFICES, LOUNGES, CONFERENCE ROOMS AND AREAS OF ASSEMBLY WITH HIGH OCCUPANCY SHALL BE COMPLETE WITH LIGHTING SYSTEM OCCUPANCY SENSORS. THESE SHALL BE WIRED AS SHOWN IN DETAILS ON DRAWING #E3.01 WITH MANUAL OVERRIDE SWITCHES AND APPROPRIATE RELAYS FOR EMERGENCY POWER USE.

VIDEO MONITOR NOTES:

- 1. VERIFY VIDEO MONITOR AND POWER/CABLE OUTLET LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
- 2. VIDEO OUTLET AND ASSOCIATED CABLING/CONNECTIONS BY OWNER'S VIDEO SYSTEM INSTALLER.

LIGHTING FIXTURE NOTES:

- A. FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET THE JOB REQUIREMENTS. VERIFY CEILING AND GRID TYPE PRIOR TO ORDERING FIXTURES. USE THE LATEST ARCHITECTURAL DRAWINGS.
- B. VERIFY FIXTURE MOUNTING, HEIGHTS AND LOCATION AGAINST PLANS, ELEVATIONS AND DETAIL DRAWINGS. EXACT LOCATION OF FIXTURES SHALL BE CONFIRMED WITH THE ARCHITECT PRIOR TO ROUGHING IN.
- C. SERIES FIXTURES SHALL SATISFY LENGTHS AS INDICATED ON THE DRAWINGS. FIELD VERIFY EXACT LENGTHS AND PROVIDE COMPONENTS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.
- D. FIXTURE LETTERS SHOWN ONCE ON A CONTINUOUS ROW OF FIXTURES SHALL BE TYPICAL FOR THAT ROW UNLESS OTHERWISE INDICATED.
- E. FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILING, REFER TO SPECIFICATIONS.
- F. MANUFACTURERS' CATALOG NUMBERS ARE INDICATED FOR REFERENCE PURPOSES ONLY. THEY ARE MEANT TO PROVIDE A GENERAL DESCRIPTION OF THE DESIGN AND QUALITY OF FIXTURES REQUIRED. DESCRIPTIONS AND NOTES MAY INDICATE ITEMS THAT ARE NOT INDICATED IN THE CATALOG NUMBER. WHERE ONE MANUFACTURER'S CATALOG NUMBER IS LISTED FOLLOWED BY TWO OR MORE OTHER MANUFACTURERS NAMES ONLY, SUBSTITUTIONS SUBMITTED SHALL BE DOCUMENTED AS EQUAL IN PERFORMANCE AND APPEARANCE TO THE FULLY LISTED ITEM. PROVIDE POINT BY POINT LIGHTING CALCULATIONS WITH SHOP DRAWINGS WHEN REQUESTED.
- G. INCANDESCENT LAMPS SHALL BE RATED 130 VOLTS UNLESS OTHERWISE SPECIFIED.
- H. FLUORESCENT FIXTURES SHALL HAVE HIGH POWER FACTOR, CLASS P, ELECTRONIC BALLASTS UNLESS OTHERWISE INDICATED, APPROVED AS A COMBINATION WITH LAMPS SUPPLIED. FIXTURES, LAMPS AND BALLASTS SHALL MEET APPLICABLE REQUIREMENTS OF UTILITY INCENTIVE PROGRAMS.
- I. SINGLE LAMP OR THREE LAMP FIXTURES USED FOR GENERAL ILLUMINATION, AND MOUNTED WITHIN TEN FEET OF EACH OTHER AND WITHIN THE SAME ROOM SHALL BE TANDEM WIRED TO ELIMINATE UNNECESSARY USE OF SINGLE LAMP BALLASTS MAXIMIZE USE OF THREE AND FOUR LAMP BALLASTS WHERE SWITCHING DOES NOT REQUIRE OTHERWISE.
- J. COMPACT FLUORESCENT FIXTURES SHALL HAVE HIGH POWER FACTOR, THERMALLY PROTECTED ELECTRONIC BALLASTS WITH END OF LAMP LIFE SENSING CAPABILITY WHICH WILL CORRECT ITSELF UPON RELAMPING.
- K. CUSTOM FINISH COLORS SHALL BE AS SELECTED BY THE ARCHITECT.
- L. FLUORESCENT AND COMPACT FLUORESCENT LAMPS SHALL HAVE KELVIN COLOR TEMPERATURE, AND MINIMUM COLOR RENDERING INDEX AS INDICATED IN SPECIFICATION. METAL HALIDE LAMPS SHALL HAVE SHROUDED ARC TUBE, COLOR CORRECTING COATING ON OUTER ENVELOPE, WITH KELVIN COLOR TEMPERATURE AND A COLOR RENDERING INDEX AS INDICATED IN SPECIFICATION.
- M. LINEAR ROWS OF RECESSED OR HUNG FLUORESCENT LUMINAIRES SHALL BE INSTALLED TO PROVIDE A LENGTH AS INDICATED ON THE DRAWINGS. PROVIDE ALL REQUIRED CONNECTORS AND END PIECES, SO THAT HOUSINGS ARE A COMPLETE ASSEMBLY WITH THE APPEARANCE OF A SINGLE UNIT, BALLASTS AND LAMP PINS SHALL BE FACTORY PRE-WIRED FOR SWITCHING AND CIRCUITING AS INDICATED ON THE DRAWINGS. HANGER STYLE SHALL BE AS SELECTED BY THE ARCHITECT (AIRCRAFT CABLE WITH COILED CORD, STEM MOUNT, ETC.) PROVIDE CANOPIES FOR LOCATIONS WHERE HANGER MOUNTS TO UNFINISHED CEILING STRUCTURE (WHERE VISIBLE) AND WHERE PASSING THROUGH SUSPENDED CEILINGS, MAXIMIZE USE OF THREE AND FOUR LAMP BALLASTS. ENTIRE ASSEMBLY SHALL BE SUPPLIED BY ONE VENDOR. COORDINATE WITH FIXTURE VENDOR.
- N. EXIT LIGHT FIXTURES SHALL CONFORM TO UL LISTING #924, 1570, 1571, NFPA 101 AND WITH ALL APPLICABLE CODES.

GENERAL NOTES:

- A. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED, AND COORDINATION WITH ALL TRADES. SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.
- PROVIDE ALL WORK INDICATED OR DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE.
- C. COORDINATE WITH THE GENERAL CONTRACTOR, OTHER TRADES AND MANUFACTURER'S EQUIPMENT AND MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E., POWER, CONTROL, INTERLOCK, ETC.
- D. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE LIFE SAFETY CODE, THE ELECTRIC CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE EVERY FACET OF WORK REQUIRED BY CODES AND AUTHORITIES.
- E. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATION, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.
- F. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, ROUTING AND MOUNTING HEIGHTS C EQUIPMENT AND RACEWAYS SHALL BE COORDINATED WITH THE ARCHITECT, OTHER TRADES, EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.
- G. PROVIDE ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION.
- H. IF EXACT MOUNTING OR RACEWAY ROUTINGS ARE NOT INDICATED (LOCATION OR HEIGHT) REQUEST CLARIFICATION PRIOR TO ROUGHING, OR INSTALLATION. I. ELECTRICAL WORK SHALL BE RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
- J. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE MINIMUM 24 INCH SPACING IN FIRE RATED WALLS. MOUNT LOW VOLTAGE AND POWER OUTLETS IN DIFFERENT STUD WALL CAVITIES.
- K. PROVIDE ELECTRICAL OUTLET PLATE GASKETS SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.
- PROVIDE CODE REQUIRED STARTERS AND DISCONNECTS WHICH ARE NOT FURNISHED UNDER DIVISIONS 11, 13 OR 15. INSTALL STARTERS AND DISCONNECTS THAT ARE FURNISHED UNDER DIVISIONS 11, 13 OR 15.
- M. INSTALL A GREEN GROUNDING CONDUCTOR WITHIN EACH RACEWAY SIZED IN ACCORDANCE WITH THE ELECTRIC CODE.
- N. INSTALLATION OF RACEWAYS BELOW THE FLOOR SLAB WILL NOT BE ACCEPTABLE UNLESS SPECIFICALLY INDICATED OTHERWISE.
- O. PROVIDE WATERTIGHT AND GASTIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING FROM BELOW GRADE, O.Z. GEDNEY OR APPROVED EQUAL. PROVIDE WEATHERTIGHT SEAL AT PENETRATIONS ABOVE GRADE.
- P. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (SLAB TO SLAB) WALLS.

GENERAL WIRING NOTE:

1. BRANCH CIRCUIT CONDUCTORS THAT DO NOT EXCEED 100 FEET TO FURTHEST OUTLET OR DEVICE, SHALL NOT BE LESS THAN #12 AWG. FOR CIRCUIT HOMERUNS THAT DO NOT EXCEED 150 FEET, #10 AWG IS PERMITTED. FOR CIRCUIT HOMERUNS GREATER THAN 150 FEET, CONDUCTOR SHALL BE NOT LESS THAN #8 AWG.

REVISIONS

JANUARY 29, 2001

FEBRUARY 21, 2001 JUNE 22, 2001

DESCRIPTION DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING



29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420 TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY: MSA CHECKED BY: RLG

ELECTRICAL GENERAL NOTES

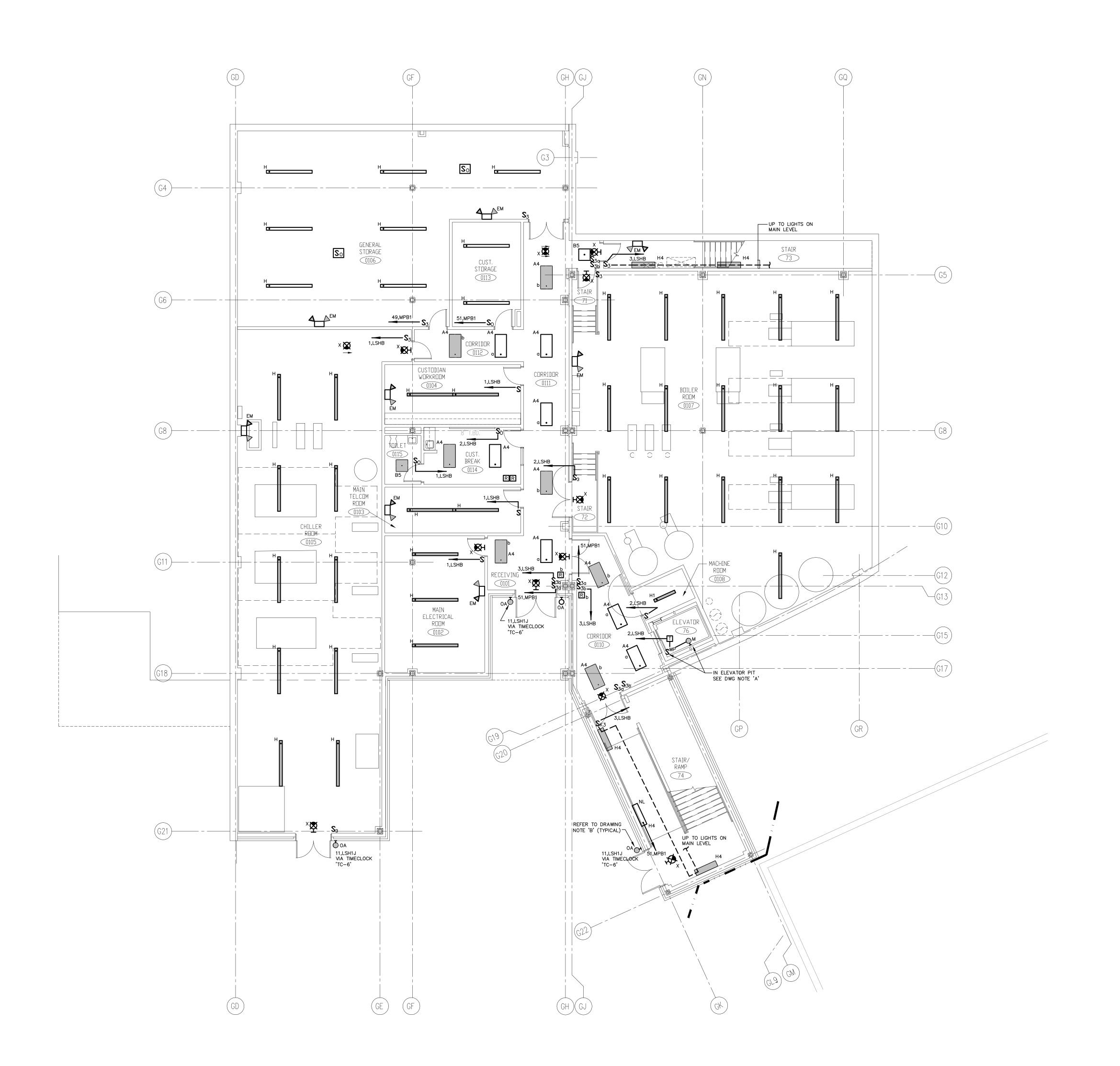
PROJECT NO.: 00048

DRAWING NO.:

E0.02

DATE: JANUARY 20, 2001

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DRAWING NOTES:

A. PROVIDE A DRY-TYPE GENERAL PURPOSE TRANSFORMER, SINGLE PHASE, 480V PRIMARY-120/208V SECONDARY, 1.5kVA.

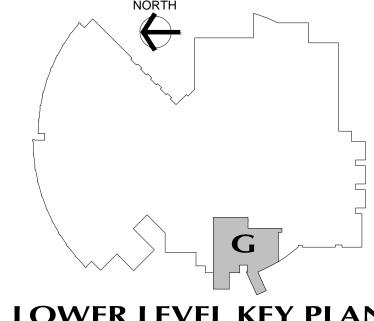
GENERAL LIGHTING NOTES:

- 2. REFER TO THE LIGHTING FIXTURE SCHEDULE ON DWG. E4.01 FOR ADDITIONAL INFORMATION ON LIGHT FIXTURES.
- 3. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
- 4. ALL EXIT SIGNS AND AREA OF REFUGE SIGNS SHALL BE WIRED AHEAD OF ANY SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINOUS CHARGING AND AC CIRCUIT MONITORING.
- 5. EMERGENCY LIGHTING FIXTURES, (ANY BATTERY TYPE UNITS), SHALL BE WIRED AHEAD OF SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING AND SUCH THAT FIXTURE ILLUMINATES UPON FAILURE OF NORMAL POWER.
- 6. REFER TO DRAWING #E3.01 AND #E3.02 ELECTRICAL FOR LIGHTING WIRING SCHEMATICS.
- 7. LIGHT FIXTURES NOTED BY THE SUBSCRIPT "NL" (NIGHT LIGHT) SHALL HAVE AT LEAST (2) TWO LAMPS WIRED FOR CONTINUOUS OPERATION.
- 1. REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND,
 ABBREVIATIONS AND GENERAL NOTES.

 8. SINGLE AREAS OR ROOMS SHOWN WITH (2) SWITCHES ['SS',
 'S3,S3,' 'S0,S'] DESIGNATES DUAL LEVEL SWITCHING WITH THE
 INBOARD LAMPS WIRED TO ONE SWITCH AND THE OUTBOARD LAMPS WIRED TO SECOND SWITCH. THIS OCCURS IN AREAS OR ROOMS WITH LIGHTING FIXTURES CONTAINING TWO BALLASTS. IN ROOMS WHERE EMERGENCY LIGHTING FIXTURES ARE DESIGNATED, ONE SWITCH CONTROLS THE INBOARD LAMPS THRU THE RELAY WIRED THE EMERGENCY BRANCH CIRCUIT; THE OTHER SWITCH CONTROLS THE OUTBOARD LAMPS WIRED

ON THE NORMAL POWER BRANCH CIRCUIT.

- CORRIDOR AREAS SHOWN WITH (2) SWITCHES DESIGNATES THE FOLLOWING: ALL LIGHTING FIXTURÉS IN THIS AREA THAT ARE FED FROM NORMAL POWER SHALL BE WIRED TO ONE SWITCH. ALL LIGHTING FIXTURES IN THIS AREA THAT ARE FED FROM EMERGENCY POWER ARE WIRED TO SECOND SWITCH. THESE FIXTURES CONTAIN ONE BALLAST.
- 10. COORDINATE LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC., ADJUST FIXTURE LOCATIONS AS REQUIRED.
- 11. ALL EXTERIOR LIGHTING FIXTURES SHOWN ON FLOOR PLANS SHALL BE WIRED WITH 2#10, 1#10G., 3/4"C TO PANEL DESIGNATED.



LOWER LEVEL KEY PLAN

REVISIONS

REVIEW OF PHASE II
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
RESUBMISSION OF PHASE II
DRAWINGS ISSUED FOR BIDDING
AND CONSTRUCTION PURPOSES

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION



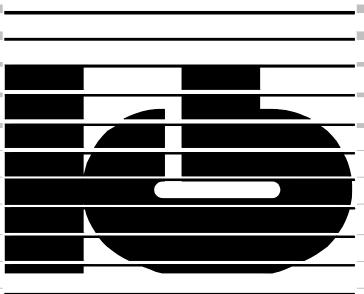
NEW RHAM HIGH SCHOOL

WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



ASSOCIATES,INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 SCALE: 1/8" = 1'-0"DRAWN BY: CHECKED BY:

LOWER LEVEL LIGHTING PLAN AREA G

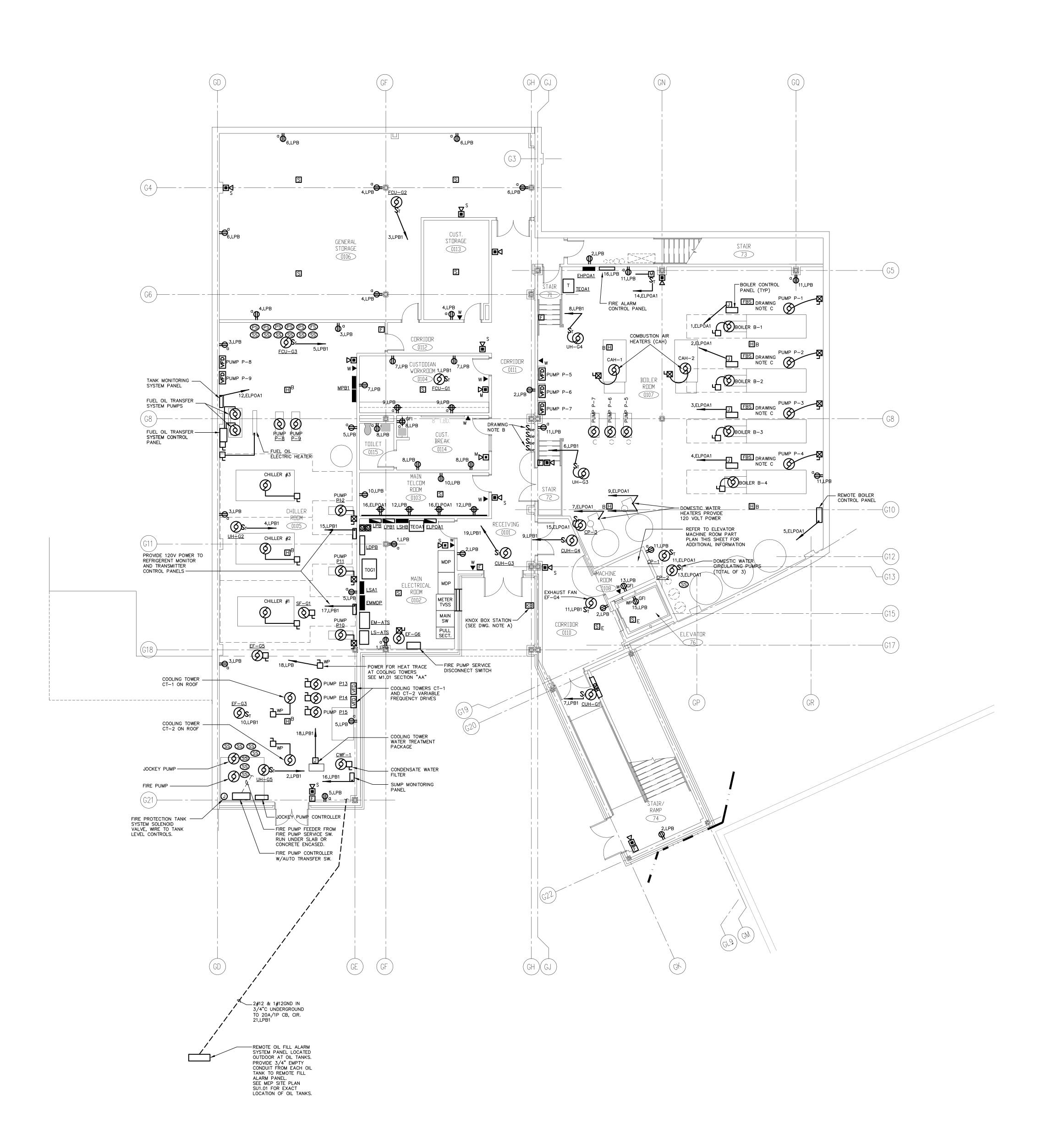
PROJECT NO.: 00048

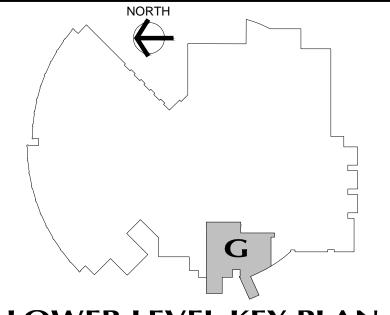
DRAWING NO.:

E1.00

DATE: JANUARY 20, 2001

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LOWER LEVEL KEY PLAN

REVISIONS

DATE MAR JANUARY 29, 2001 FEBRUARY 21, 2001

JUNE 22, 2001

DESCRIPTION
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
REVIEW OF PHASE II
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RESUBMISSION OF PHASE II
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AND CONSTRUCTION PURPOSES



ELEVATOR MACHINE ROOM PART PLAN SCALE: 1/4"=1'-0"

PROVIDE (1) 3/4" CONDUIT W/ 3#12 TO ELEVATOR CAB

PROVIDE (1) 3/4" EMPTY
CONDUIT W/ PULL LINE
TO ELEVATOR CAB
PHONES. COORDINATE W/
ELEVATOR SUPPLIER

CONDUIT W/ PULL LINE TO TELEPHONE EQUIPMENT ROOM ON THIS FLOOR

 ELEVATOR CONTROLLER FURNISHED AND INSTALLED BY DIV. 14

DETAIL NOTES:

MOUNT ADJACENT TO SPRINKLER HEAD

ELEVATOR FEEDER TO SWITCHBOARD.

ELEVATOR FUSED DISCONNECT SWITCH WITH AUX. CONTACTS FOR EMERGENCY LOWERING DEVICE MANUAL BYPASS

1. PROVIDE A 20AMP, 1POLE, 277VOLT CIRCUIT BREAKER IN NEMA—1 ENCLOSURE, AND A 3.0KVA DRY
TRANSFORMER IN ELEVATOR MACHINE ROOM AS SHOWN FOR POWER TO ELEVATOR CAB LIGHTS.

DRAWING NOTES:

- A. KNOX BOX UNIT FURNISHED AND INSTALLED BY OTHERS, PROVIDE CONNECTION TO FIRE ALARM INITIATION LOOP WIRING FOR MONITORING OF
- B. PROVIDE BOILER EMERGENCY SHUT-OFF SWITCHES, WIRE TO BOILER CONTROL PANELS PER MFR'S WIRING DIAGRAMS. BOILER CONTROL PANELS FURNISHED AND INSTALLED BY DIV. 15, WIRED BY DIV. 16.
- C. PROVIDE (4) "FUSOMATIC" THERMALLY ACTIVATED BOILER SHUT-OFF SWITCHES IN BOILER ROOM 0107. WIRE EACH FUSOMATIC SWITCH TO RESPECTIVE BOILER CONTROLS. ON TEMPERATURE RISE ABOVE SET-POINT, FUSOMATIC SWITCH UNIT SHALL DE-ENERGIZE BOILER BURNER TO STOP BOILER FIRING.

GENERAL POWER NOTES:

- REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO START OF WORK.
- 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN PANELBOARD.
- 4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE—LINE RISER DIAGRAM.
- 5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.
- 6. REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER DIAGRAM.
- 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- 8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS, (T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.

NEW RHAM HIGH SCHOOL WALL STREET

HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

vanZelmHeywood&ShadfordInc



vZHS PROJECT NUMBER: 2000155.00

ASSOCIATES,INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050–2590 (860) 229–0361

DRAWN BY: SCALE: 1/8" = 1'-0"

CHECKED BY:

LOWER LEVEL POWER PLAN AREA G

PROJECT NO.: 00048

DATE: JANUARY 20, 2001

E1.01

DRAWING NO.:

<u>WIRING NOTES:</u>

SPECIAL CONDITIONS.

- A. RACEWAYS AND WIRING ARE INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- C. ALTHOUGH ALL FEEDER AND BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE FEEDER AND BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- D. WHEN THE COMBINING OF CIRCUITS OR HOMERUNS IS ALLOWED. RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (THREE PHASE AND THREE NEUTRALS) AND GROUNDING CONDUCTOR UNLESS OTHERWISE INDIČATED. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE PHASE CIRCUIT, EXCEPT FOR LIGHTING CIRCUITS, UNLESS AN OVERSIZED NEUTRAL IS SPECIFICALLY INDICATED.
- E. WIRING INDICATED BY CIRCUIT NUMBER SYMBOL SHALL INCLUDE A NEUTRAL WHEN THE LOAD SERVED HAS PROVISIONS FOR, OR REQUIRES A NEUTRAL. TYPICALLY, ALL FEEDERS WILL REQUIRE A NEUTRAL, EXCEPT MOST MOTOR CIRCUITS.
- F. WIRE AND RACEWAY SIZES INDICATED ON HOMERUNS SHALL BE CONTINUOUS THROUGHOUT THE CIRCUIT.
- G. RACEWAYS SHALL BE AS REQUIRED AND INDICATED IN THE SPECIFICATIONS. H. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.

MODULAR SYSTEMS FURNITURE CONNECTION NOTES:

AT WALL POWER JUNCTION BOX LOCATIONS FOR MODULAR SYSTEMS FURNITURE . $oldsymbol{\mathfrak{C}}$ PROVIDE A 4"x4"x2" OUTLET BOX WITH PLASTER RING, AND BLANK PLATE WITH A 1" DIA. 90° FLEX CONDUIT FITTING FOR CONNECTION TO FURNITURE POWER WHIP FITTING. POWER WHIP FURNISHED WITH FURNITURE BY OTHERS, INSTALLED AND WIRED TO FURNITURE BY DIV. 16. PROVIDE 3/4"CONDUIT FROM JUNCTION BOX TO LOCAL POWER PANEL, PROVIDE TWO SEPARATE CIRCUITS IN EACH WORKSTATION, UP TO (4) WORKSTATIONS PER INDIVIDUAL CIRCUIT. PROVIDE DEDICATED CIRCUITS FOR PRINTERS AND A SEPARATE DEDICATED CIRCUIT FOR PHOTOCOPIERS. MODULAR FURNITURE FURNISHED BY OTHERS WITH BUILT-IN POWER OUTLETS PRE-WIRED WITH WIRING HARNESS.

AT WALL DATA/VOICE JUNCTION BOX LOCATIONS FOR MODULAR SYSTEMS FURNITURE, $oldsymbol{\mathbb{O}}$ PROVIDE A 4"x4"x2" OUTLET BOX WITH PLASTER RING, AND BLANK PLATE WITH A 1" DIA BUSHED OPENING FOR CONNECTION TO FURNITURE LOW VOLTAGE RACEWAY. DATA/VOICE CABLING AND CONNECTIONS BY OWNER'S SYSTEMS VENDORS. PROVIDE (2) 1" CONDUITS FROM JUNCTION BOX TO CEILING PLENUM SPACE.

GENERAL LIGHTING PLAN NOTES:

- A. FOR LIGHTING FIXTURE DESCRIPTIONS, REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E4.01.
- B. FOR ACTUAL LOCATION OF CEILING MOUNTED LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING DRAWING(S).
- C. FOR ACTUAL LOCATION OF WALL MOUNTED LIGHTING FIXTURES AND TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS.
- D. ALL EXIT SIGNS SHALL BE WIRED AHEAD OF ANY SWITCHED LEGS ON LOCAL LIFE SAFETY LIGHTING BRANCH CIRCUIT.
- E. EMERGENCY BATTERY UNITS AND BALLASTS SHALL BE WIRED AHEAD OF ANY SWITCHED LEGS ON LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING.
- F. A LIGHT SWITCH, (OR OCCUPANCY SENSOR SWITCH), IN A SPACE SHALL CONTROL LIGHTING
- G. REFER TO LIGHTING DETAILS ON DRAWING E3.01 FOR TYPICAL WIRING SCHEMATICS.

EXCLUSIVELY IN THAT SPACE UNLESS OTHERWISE INDICATED.

- H. INSTALL CONDUIT AND WIRING FOR EXTERIOR BUILDING MOUNTED LIGHT FIXTURES, CONCEALED WITHIN BUILDING, NOT EXPOSED ON BUILDING EXTERIOR.
- I. EXISTING LIGHT FIXTURES TO REMAIN, WITHIN CONTRACT AREAS, SHALL BE CLEANED AND RELAMPED WITH NEW LAMPS SIMILAR TO NEW FIXTURES.

GENERAL POWER AND SIGNAL PLAN NOTES:

- A. CONNECT ALL WIRING DEVICES TO THE PANELBOARD(S) NOTED, UNLESS OTHERWISE INDICATED ON THIS DRAWING.
- B. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- C. REFER TO ARCHITECTURAL EQUIPMENT PLANS AND CASEWORK ELEVATION DRAWINGS FOR OUTLET REQUIREMENTS AND LOCATIONS.
- D. REFER TO POWER AND SIGNAL RISER AND DETAIL DRAWINGS FOR TYPICAL WIRING SCHEMATICS AND INSTALLATION DETAILS.
- E. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, SWITCHES, FIRE ALARM DEVICES, ETC. WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS PRIOR TO START OF WORK, REQUEST CLARIFICATIONS FROM ARCHITECT PRIOR TO INSTALLATION.

GENERAL PROJECT SCOPE NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL STARTERS, DISCONNECT SWITCHES, BRANCH CIRCUIT WIRING AND ASSOCIATED DEVICES TO POWER MECHANICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, BOILERS, PUMPS, AND AIR HANDLING UNITS. REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.02 FOR EXACT REQUIREMENTS.
- 2. ALL CLASSROOMS, OFFICES, LOUNGES, CONFERENCE ROOMS AND AREAS OF ASSEMBLY WITH HIGH OCCUPANCY SHALL BE COMPLETE WITH LIGHTING SYSTEM OCCUPANCY SENSORS. THESE SHALL BE WIRED AS SHOWN IN DETAILS ON DRAWING #E3.01 WITH MANUAL OVERRIDE SWITCHES AND APPROPRIATE RELAYS FOR EMERGENCY POWER USE.

VIDEO MONITOR NOTES:

- 1. VERIFY VIDEO MONITOR AND POWER/CABLE OUTLET LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.
- 2. VIDEO OUTLET AND ASSOCIATED CABLING/CONNECTIONS BY OWNER'S VIDEO SYSTEM INSTALLER.

LIGHTING FIXTURE NOTES:

- A. FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET THE JOB REQUIREMENTS. VERIFY CEILING AND GRID TYPE PRIOR TO ORDERING FIXTURES. USE THE LATEST ARCHITECTURAL DRAWINGS.
- B. VERIFY FIXTURE MOUNTING, HEIGHTS AND LOCATION AGAINST PLANS, ELEVATIONS AND DETAIL DRAWINGS. EXACT LOCATION OF FIXTURES SHALL BE CONFIRMED WITH THE ARCHITECT PRIOR TO ROUGHING IN.
- C. SERIES FIXTURES SHALL SATISFY LENGTHS AS INDICATED ON THE DRAWINGS. FIELD VERIFY EXACT LENGTHS AND PROVIDE COMPONENTS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.
- D. FIXTURE LETTERS SHOWN ONCE ON A CONTINUOUS ROW OF FIXTURES SHALL BE TYPICAL FOR THAT ROW UNLESS OTHERWISE INDICATED.
- E. FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILING, REFER TO SPECIFICATIONS.
- F. MANUFACTURERS' CATALOG NUMBERS ARE INDICATED FOR REFERENCE PURPOSES ONLY. THEY ARE MEANT TO PROVIDE A GENERAL DESCRIPTION OF THE DESIGN AND QUALITY OF FIXTURES REQUIRED. DESCRIPTIONS AND NOTES MAY INDICATE ITEMS THAT ARE NOT INDICATED IN THE CATALOG NUMBER. WHERE ONE MANUFACTURER'S CATALOG NUMBER IS LISTED FOLLOWED BY TWO OR MORE OTHER MANUFACTURERS NAMES ONLY, SUBSTITUTIONS SUBMITTED SHALL BE DOCUMENTED AS EQUAL IN PERFORMANCE AND APPEARANCE TO THE FULLY LISTED ITEM. PROVIDE POINT BY POINT LIGHTING CALCULATIONS WITH SHOP DRAWINGS WHEN REQUESTED.
- G. INCANDESCENT LAMPS SHALL BE RATED 130 VOLTS UNLESS OTHERWISE SPECIFIED.
- H. FLUORESCENT FIXTURES SHALL HAVE HIGH POWER FACTOR, CLASS P, ELECTRONIC BALLASTS UNLESS OTHERWISE INDICATED, APPROVED AS A COMBINATION WITH LAMPS SUPPLIED. FIXTURES, LAMPS AND BALLASTS SHALL MEET APPLICABLE REQUIREMENTS OF UTILITY INCENTIVE PROGRAMS.
- I. SINGLE LAMP OR THREE LAMP FIXTURES USED FOR GENERAL ILLUMINATION, AND MOUNTED WITHIN TEN FEET OF EACH OTHER AND WITHIN THE SAME ROOM SHALL BE TANDEM WIRED TO ELIMINATE UNNECESSARY USE OF SINGLE LAMP BALLASTS MAXIMIZE USE OF THREE AND FOUR LAMP BALLASTS WHERE SWITCHING DOES NOT REQUIRE OTHERWISE.
- J. COMPACT FLUORESCENT FIXTURES SHALL HAVE HIGH POWER FACTOR, THERMALLY PROTECTED ELECTRONIC BALLASTS WITH END OF LAMP LIFE SENSING CAPABILITY WHICH WILL CORRECT ITSELF UPON RELAMPING.
- K. CUSTOM FINISH COLORS SHALL BE AS SELECTED BY THE ARCHITECT.
- L. FLUORESCENT AND COMPACT FLUORESCENT LAMPS SHALL HAVE KELVIN COLOR TEMPERATURE, AND MINIMUM COLOR RENDERING INDEX AS INDICATED IN SPECIFICATION. METAL HALIDE LAMPS SHALL HAVE SHROUDED ARC TUBE, COLOR CORRECTING COATING ON OUTER ENVELOPE, WITH KELVIN COLOR TEMPERATURE AND A COLOR RENDERING INDEX AS INDICATED IN SPECIFICATION.
- M. LINEAR ROWS OF RECESSED OR HUNG FLUORESCENT LUMINAIRES SHALL BE INSTALLED TO PROVIDE A LENGTH AS INDICATED ON THE DRAWINGS. PROVIDE ALL REQUIRED CONNECTORS AND END PIECES, SO THAT HOUSINGS ARE A COMPLETE ASSEMBLY WITH THE APPEARANCE OF A SINGLE UNIT, BALLASTS AND LAMP PINS SHALL BE FACTORY PRE-WIRED FOR SWITCHING AND CIRCUITING AS INDICATED ON THE DRAWINGS. HANGER STYLE SHALL BE AS SELECTED BY THE ARCHITECT (AIRCRAFT CABLE WITH COILED CORD, STEM MOUNT, ETC.) PROVIDE CANOPIES FOR LOCATIONS WHERE HANGER MOUNTS TO UNFINISHED CEILING STRUCTURE (WHERE VISIBLE) AND WHERE PASSING THROUGH SUSPENDED CEILINGS, MAXIMIZE USE OF THREE AND FOUR LAMP BALLASTS. ENTIRE ASSEMBLY SHALL BE SUPPLIED BY ONE VENDOR. COORDINATE WITH FIXTURE VENDOR.
- N. EXIT LIGHT FIXTURES SHALL CONFORM TO UL LISTING #924, 1570, 1571, NFPA 101 AND WITH ALL APPLICABLE CODES.

GENERAL NOTES:

- A. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED, AND COORDINATION WITH ALL TRADES. SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.
- PROVIDE ALL WORK INDICATED OR DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE.
- C. COORDINATE WITH THE GENERAL CONTRACTOR, OTHER TRADES AND MANUFACTURER'S EQUIPMENT AND MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E., POWER, CONTROL, INTERLOCK, ETC.
- D. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE LIFE SAFETY CODE, THE ELECTRIC CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE EVERY FACET OF WORK REQUIRED BY CODES AND AUTHORITIES.
- E. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATION, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.
- F. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, ROUTING AND MOUNTING HEIGHTS C EQUIPMENT AND RACEWAYS SHALL BE COORDINATED WITH THE ARCHITECT, OTHER TRADES, EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.
- G. PROVIDE ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION.
- H. IF EXACT MOUNTING OR RACEWAY ROUTINGS ARE NOT INDICATED (LOCATION OR HEIGHT) REQUEST CLARIFICATION PRIOR TO ROUGHING, OR INSTALLATION. I. ELECTRICAL WORK SHALL BE RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
- J. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE MINIMUM 24 INCH SPACING IN FIRE RATED WALLS. MOUNT LOW VOLTAGE AND POWER OUTLETS IN DIFFERENT STUD WALL CAVITIES.
- K. PROVIDE ELECTRICAL OUTLET PLATE GASKETS SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.
- PROVIDE CODE REQUIRED STARTERS AND DISCONNECTS WHICH ARE NOT FURNISHED UNDER DIVISIONS 11, 13 OR 15. INSTALL STARTERS AND DISCONNECTS THAT ARE FURNISHED UNDER DIVISIONS 11, 13 OR 15.
- M. INSTALL A GREEN GROUNDING CONDUCTOR WITHIN EACH RACEWAY SIZED IN ACCORDANCE WITH THE ELECTRIC CODE.
- N. INSTALLATION OF RACEWAYS BELOW THE FLOOR SLAB WILL NOT BE ACCEPTABLE UNLESS SPECIFICALLY INDICATED OTHERWISE.
- O. PROVIDE WATERTIGHT AND GASTIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING FROM BELOW GRADE, O.Z. GEDNEY OR APPROVED EQUAL. PROVIDE WEATHERTIGHT SEAL AT PENETRATIONS ABOVE GRADE.
- P. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (SLAB TO SLAB) WALLS.

GENERAL WIRING NOTE:

1. BRANCH CIRCUIT CONDUCTORS THAT DO NOT EXCEED 100 FEET TO FURTHEST OUTLET OR DEVICE, SHALL NOT BE LESS THAN #12 AWG. FOR CIRCUIT HOMERUNS THAT DO NOT EXCEED 150 FEET, #10 AWG IS PERMITTED. FOR CIRCUIT HOMERUNS GREATER THAN 150 FEET, CONDUCTOR SHALL BE NOT LESS THAN #8 AWG.

REVISIONS

JANUARY 29, 2001

FEBRUARY 21, 2001 JUNE 22, 2001

DESCRIPTION DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING



29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420 TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY: MSA CHECKED BY: RLG

ELECTRICAL GENERAL NOTES

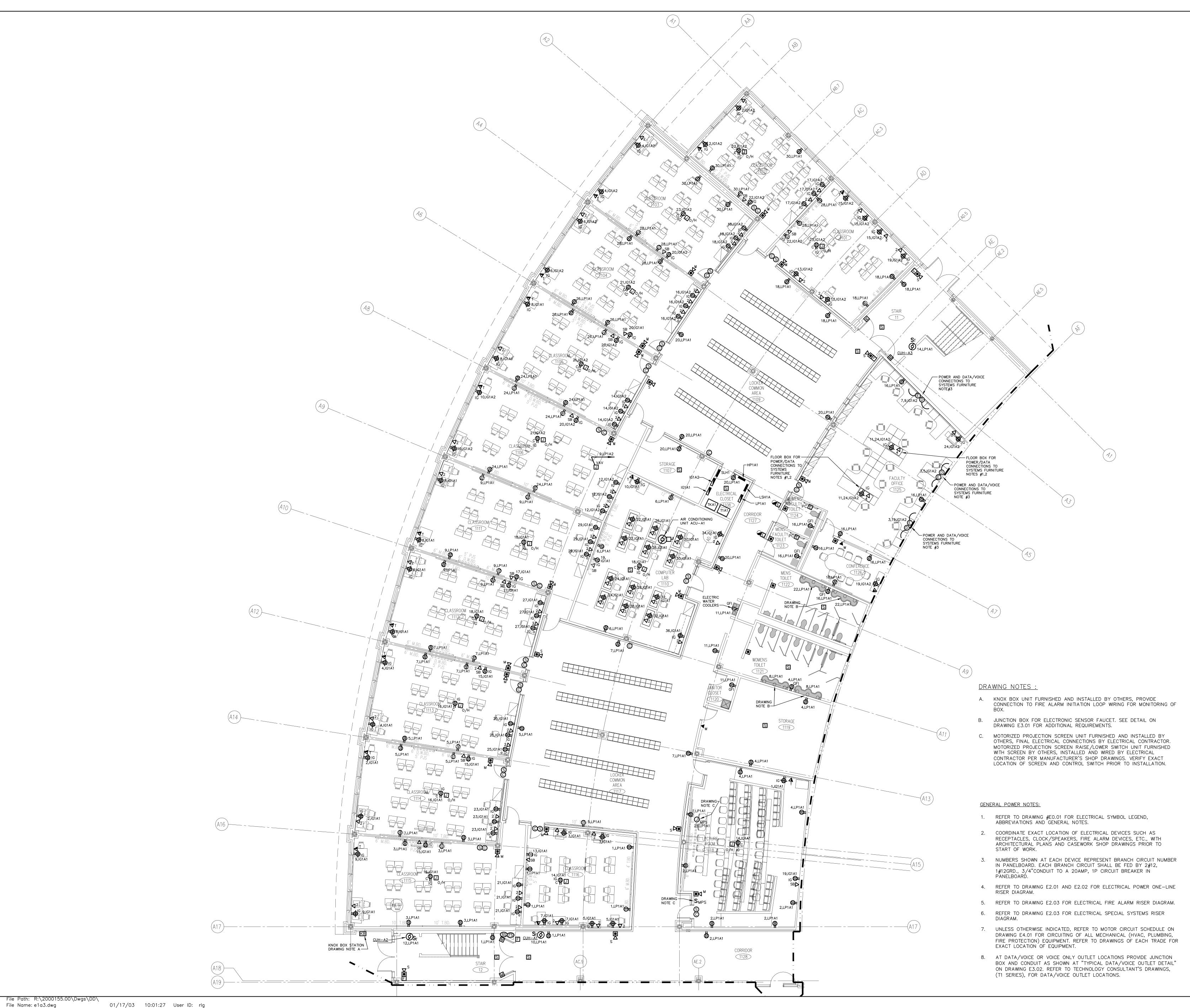
PROJECT NO.: 00048

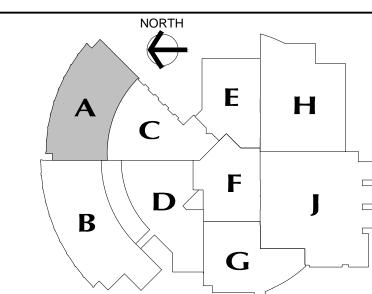
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E0.02

DATE: JANUARY 20, 2001

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REVISIONS

JANUARY 29, 2001

FEBRUARY 21, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION

JUNE 22, 2001

REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

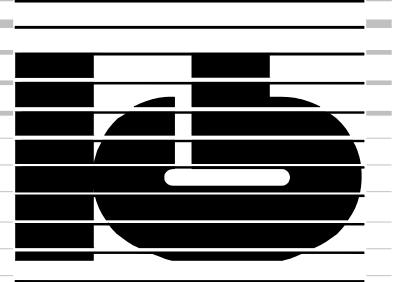


NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420 TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



ASSOCIATES,INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY: CHECKED BY: SCALE: 1/8" = 1'-0"

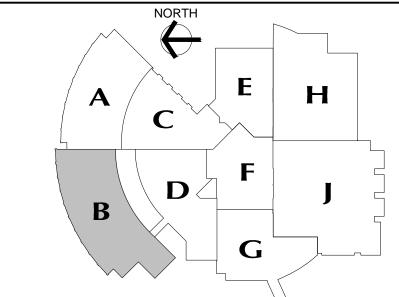
> MAIN LEVEL **POWER** PLAN **AREA A**

PROJECT NO.: 00048

DRAWING NO.:

E1.03 DATE: JANUARY 20, 2001





REVISIONS

JANUARY 29, 2001

FEBRUARY 21, 2001

JUNE 22, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING

DESCRIPTION

AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS ASSOCIATES, INC.

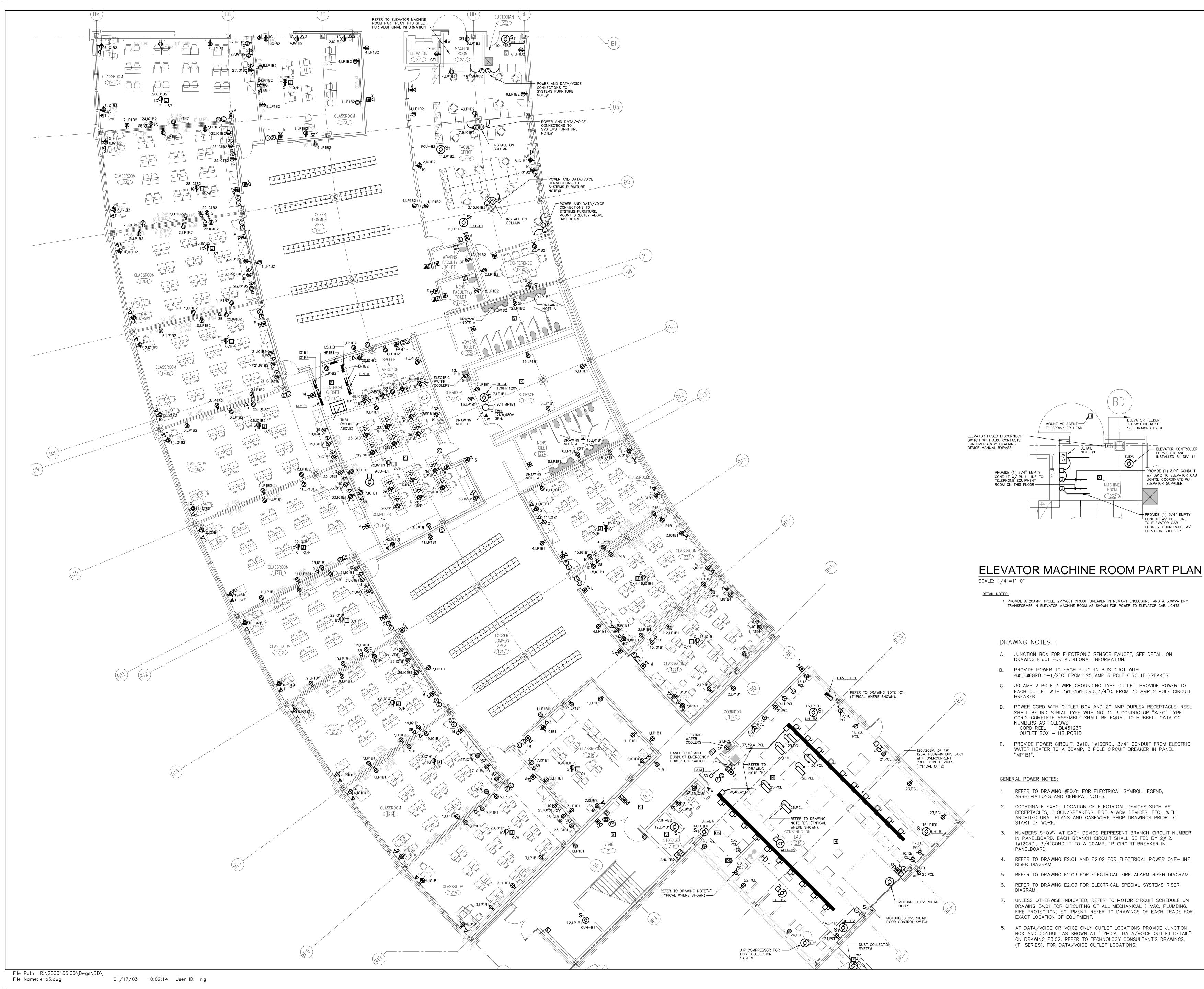
ARCHITECTS

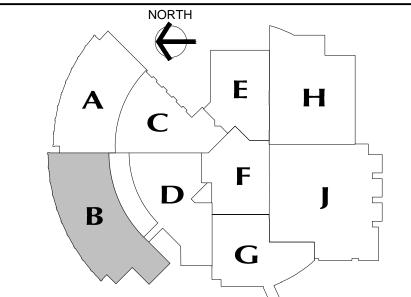
MAIN LEVEL LIGHTING **PLAN** AREA B

PROJECT NO.: 00048

DATE: JANUARY 20, 2001

E1.04





REVISIONS

JANUARY 29, 2001

FEBRUARY 21, 2001

DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING

AND CONSTRUCTION PURPOSES

DRAWINGS ISSUED FOR STATE

MARLBOROUGE

NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.00

DRAWING NOTES :

JUNCTION BOX FOR ELECTRONIC SENSOR FAUCET, SEE DETAIL ON DRAWING E3.01 FOR ADDITIONAL INFORMATION.

MOUNT ADJACENT— TO SPRINKLER HEAD

- PROVIDE POWER TO EACH PLUG-IN BUS DUCT WITH 4#1,1#6GRD.,1-1/2"C. FROM 125 AMP 3 POLE CIRCUIT BREAKER.
- 30 AMP 2 POLE 3 WIRE GROUNDING TYPE OUTLET. PROVIDE POWER TO EACH OUTLET WITH 3#10,1#10GRD.,3/4"C. FROM 30 AMP 2 POLE CIRCUIT BREAKER

1. PROVIDE A 20AMP, 1POLE, 277VOLT CIRCUIT BREAKER IN NEMA-1 ENCLOSURE, AND A 3.0KVA DRY TRANSFORMER IN ELEVATOR MACHINE ROOM AS SHOWN FOR POWER TO ELEVATOR CAB LIGHTS.

ELEVATOR FEEDER TO SWITCHBOARD. SEE DRAWING E2.01

— ELEVATOR CONTROLLER FURNISHED AND INSTALLED BY DIV. 14

PROVIDE (1) 3/4" CONDUIT
W/ 3#12 TO ELEVATOR CAB
LIGHTS. COORDINATE W/
ELEVATOR SUPPLIER

PROVIDE (1) 3/4" EMPTY CONDUIT W/ PULL LINE TO ELEVATOR CAB PHONES. COORDINATE W/ ELEVATOR SUPPLIER

- POWER CORD WITH OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE. REEL SHALL BE INDUSTRIAL TYPE WITH NO. 12 3 CONDUCTOR "SJEO" TYPE CORD. COMPLETE ASSEMBLY SHALL BE EQUAL TO HUBBELL CATALOG NUMBERS AS FOLLOWS:

 CORD REEL — HBL45123R
 OUTLET BOX — HBLPOB1D
- PROVIDE POWER CIRCUIT, 3#10, 1#10GRD., 3/4" CONDUIT FROM ELECTRIC WATER HEATER TO A 30AMP, 3 POLE CIRCUIT BREAKER IN PANEL "MP1B1".

GENERAL POWER NOTES:

- REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO
- NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN PANELBOARÓ.
- 4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE-LINE
- 5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM. REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER
- 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- 8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS, (T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.



ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361

DRAWN BY: MSA CHECKED BY:

MAIN LEVEL **POWER PLAN** AREA B

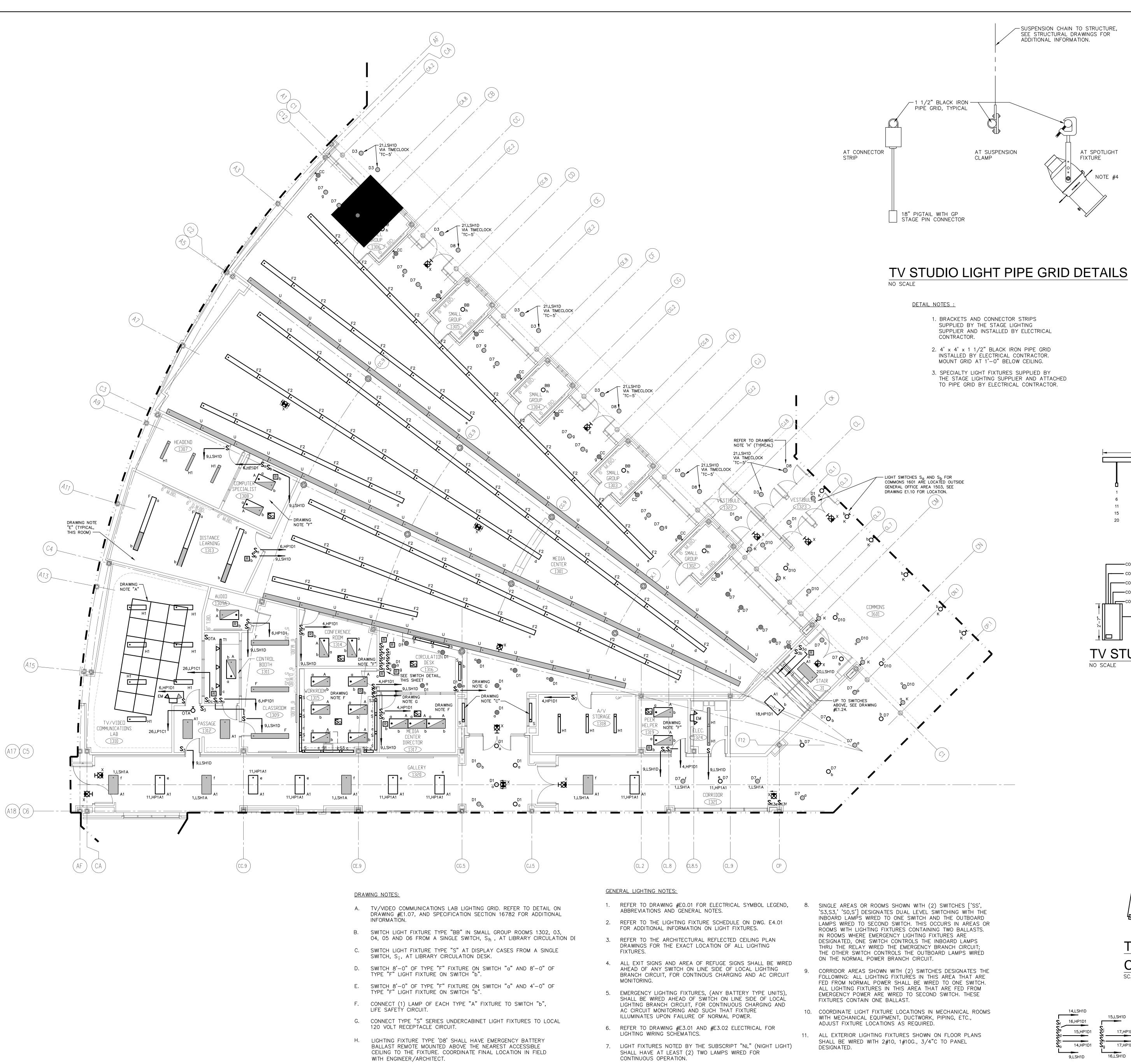
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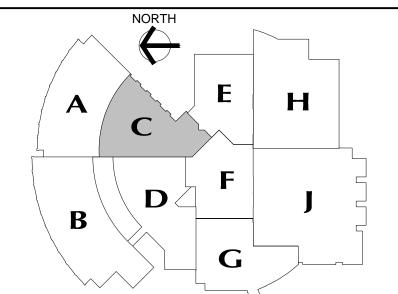
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SCALE: 1/8" = 1'-0"

E1.05

DATE: JANUARY 20, 2001





REVISIONS

DATE JANUARY 29, 2001

FEBRUARY 21, 2001 JUNE 22, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

DESCRIPTION



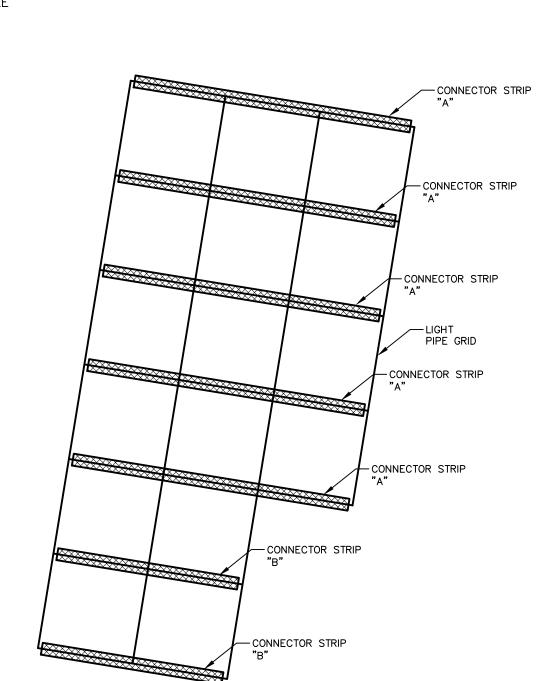
NEW RHAM HIGH SCHOOL

WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS

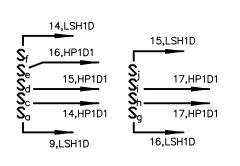
29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420 TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



TV STUDIO CONNECTOR STRIP DETAIL

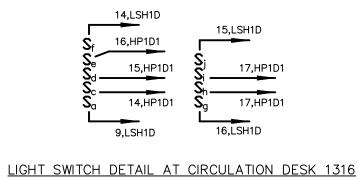
CONNECTOR STRIP "A"

TV STUDIO LIGHT PIPE/ CONNECTOR STRIP DETAIL SCALE: 1/4" = 1'-0"



AT SPOTLIGHT

FIXTURE





AREA C

ASSOCIATES,INC.

PROJECT NO.: 00048

DRAWING NO.:

E1.06

DATE: JANUARY 20, 2001

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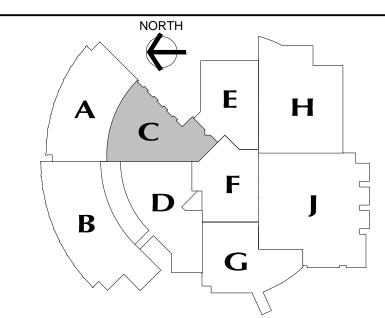


GENERAL POWER NOTES:

TO TV/VIDEO COMMUNICATIONS LAB #1310 FOR FUTURE CABLING BY

D. DOUBLE DUPLEX RECEPTACLE INSTALLED IN CEILING FOR GRID MOUNTED LIGHTING. PROVIDE POWER AS INDICATED. REFER TO DRAWING NOTE A.

- REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
 - 2. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO START OF WORK.
 - 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN
 - 4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE-LINE RISER DIAGRAM.
 - 5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.
 - 6. REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER DIAGRAM.
 - 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
 - 8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS, (T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.



MAIN LEVEL KEY PLAN

REVISIONS

JANUARY 29, 2001

DRAWINGS ISSUED FOR STATE FEBRUARY 21, 2001

DEPARTMENT OF EDUCATION
REVIEW OF PHASE II
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
RESUBMISSION OF PHASE II JUNE 22, 2001 DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



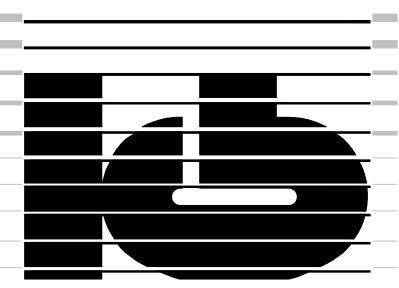
NEW RHAM HIGH SCHOOL

WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDINC MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.00



ASSOCIATES,INC. ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361

SCALE: 1/8" = 1'-0"CHECKED BY:

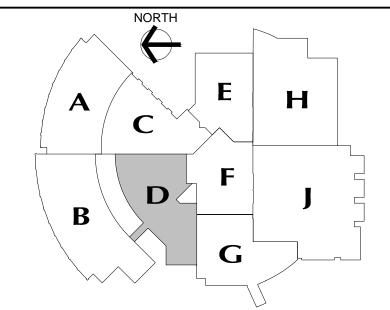
MAIN LEVEL **POWER PLAN** AREA C

PROJECT NO.: 00048

E1.07 DATE: JANUARY 20, 2001

DRAWING NO.:





REVISIONS

JANUARY 29, 2001

JUNE 22, 2001

FEBRUARY 21, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



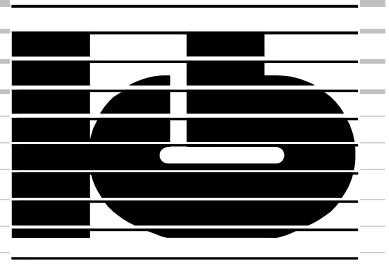
NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS



29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 SCALE: 1/8" = 1'-0"CHECKED BY:

MAIN LEVEL LIGHTING PLAN

AREA D

PROJECT NO.: 00048

E1.08

DRAWING NO.:

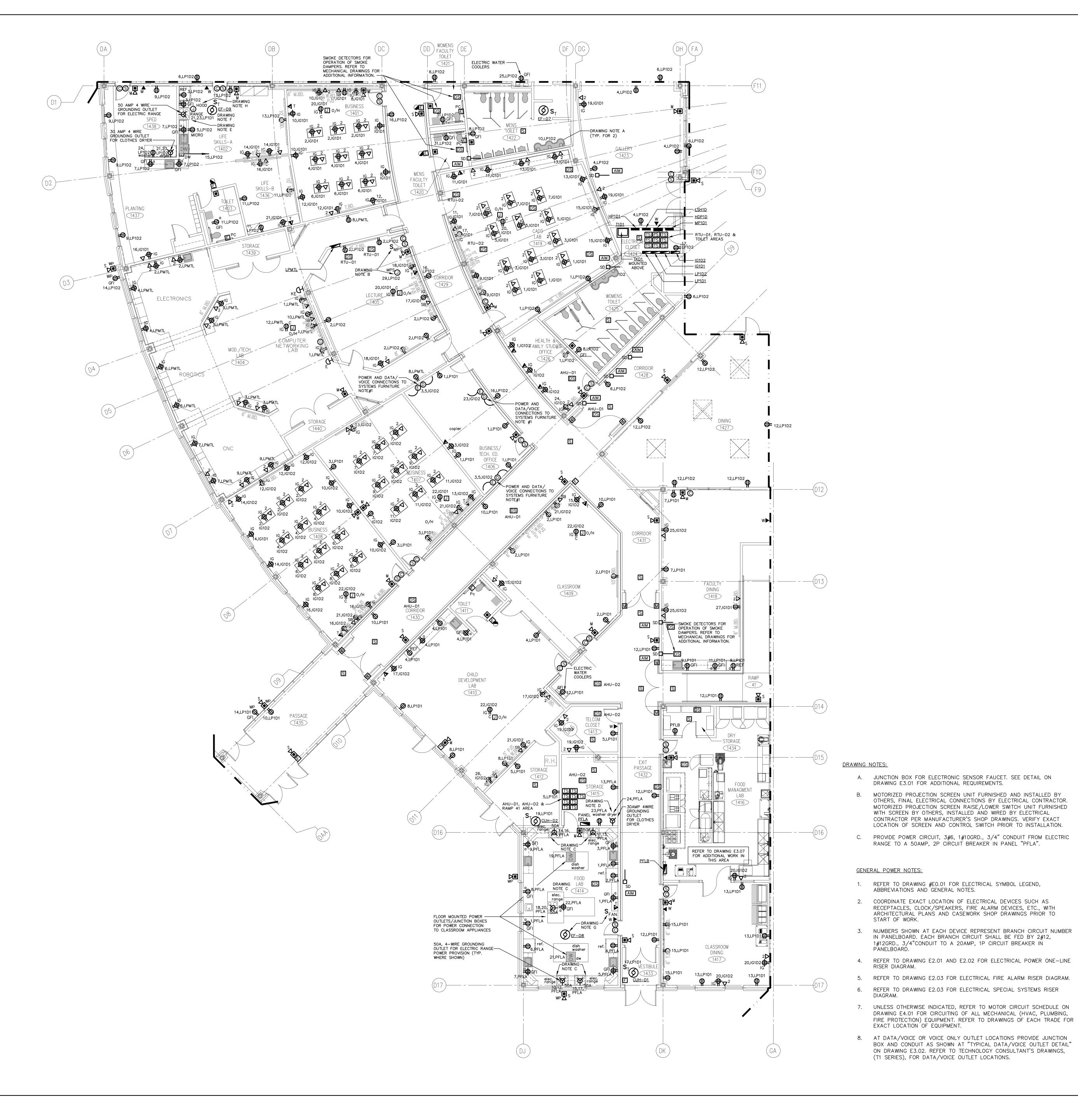
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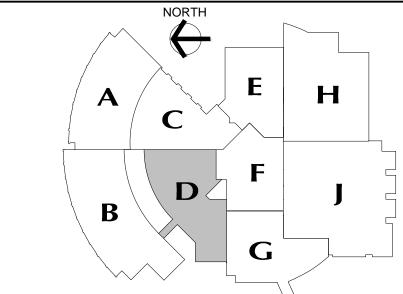
- A. SWITCH 8-0" OF TYPE "F" FIXTURE ON SWITCH "a" AND 16'-0" OF TYPE "F" LIGHT FIXTURE ON SWITCH "b".
- B. SWITCH 8'-0" OF TYPE "F" FIXTURE ON SWITCH "a" AND 12'-0" OF TYPE "F" LIGHT FIXTURE ON SWITCH "b".
- C. SWITCH 8'-0" OF TYPE "F" FIXTURE ON SWITCH "a" AND 8'-0" OF TYPE "F" LIGHT FIXTURE ON SWITCH "b".
- D. CONNECT (1) LAMP OF EACH TYPE "A" FIXTURE TO SWITCH "b", LIFE SAFETY CIRCUIT.
- E. CONNECT TYPE "S" SERIES UNDERCABINET LIGHT FIXTURES TO LOCAL 120 VOLT RECEPTACLE CIRCUIT.

GENERAL LIGHTING NOTES:

- 1. REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, 8. ABBREVIATIONS AND "GENERAL NOTES.
- 2. REFER TO THE LIGHTING FIXTURE SCHEDULE ON DWG. E4.01 FOR ADDITIONAL INFORMATION ON LIGHT FIXTURES.
- DRAWINGS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
- 4. ALL EXIT SIGNS AND AREA OF REFUGE SIGNS SHALL BE WIRED AHEAD OF ANY SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINOUS CHARGING AND AC CIRCUIT MONITORING.
- 5. EMERGENCY LIGHTING FIXTURES, (ANY BATTERY TYPE UNITS), SHALL BE WIRED AHEAD OF SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING AND SUCH THAT FIXTURE ILLUMINATES UPON FAILURE OF NORMAL POWER.
- 6. REFER TO DRAWING #E3.01 AND #E3.02 ELECTRICAL FOR LIGHTING WIRING SCHEMATICS.
- 7. LIGHT FIXTURES NOTED BY THE SUBSCRIPT "NL" (NIGHT LIGHT) SHALL HAVE AT LEAST (2) TWO LAMPS WIRED FOR CONTINUOUS OPERATION.
- SINGLE AREAS OR ROOMS SHOWN WITH (2) SWITCHES ['SS', 'S3,S3,' 'S0,S'] DESIGNATES DUAL LEVEL SWITCHING WITH THE INBOARD LAMPS WIRED TO ONE SWITCH AND THE OUTBOARD LAMPS WIRED TO SECOND SWITCH. THIS OCCURS IN AREAS OR ROOMS WITH LIGHTING FIXTURES CONTAINING TWO BALLASTS. IN ROOMS WHERE EMERGENCY LIGHTING FIXTURES ARE DESIGNATED, ONE SWITCH CONTROLS THE INBOARD LAMPS THRU THE RELAY WIRED THE EMERGENCY BRANCH CIRCUIT; THE OTHER SWITCH CONTROLS THE OUTBOARD LAMPS WIRED ON THE NORMAL POWER BRANCH CIRCUIT.
- CORRIDOR AREAS SHOWN WITH (2) SWITCHES DESIGNATES THE FOLLOWING: ALL LIGHTING FIXTURÉS IN THIS AREA THAT ARE FED FROM NORMAL POWER SHALL BE WIRED TO ONE SWITCH. ALL LIGHTING FIXTURES IN THIS AREA THAT ARE FED FROM EMERGENCY POWER ARE WIRED TO SECOND SWITCH. THESE FIXTURES CONTAIN ONE BALLAST.
- 10. COORDINATE LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC., ADJUST FIXTURE LOCATIONS AS REQUIRED.
- 11. ALL EXTERIOR LIGHTING FIXTURES SHOWN ON FLOOR PLANS SHALL BE WIRED WITH 2#10, 1#10G., 3/4"C TO PANEL DESIGNATED.

File Name: e1d2.dwg





REVISIONS

JUNE 22, 2001

DESCRIPTION
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II
DRAWINGS ISSUED FOR BIDDING
AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL

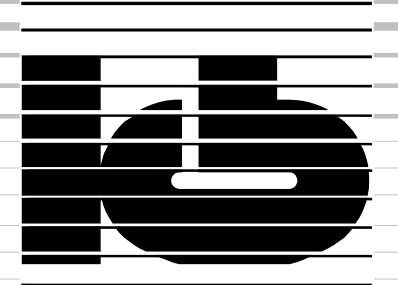
WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD&SHADFORDING

MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY:

SCALE: 1/8" = 1'-0"CHECKED BY:

MAIN LEVEL **POWER PLAN** AREA D

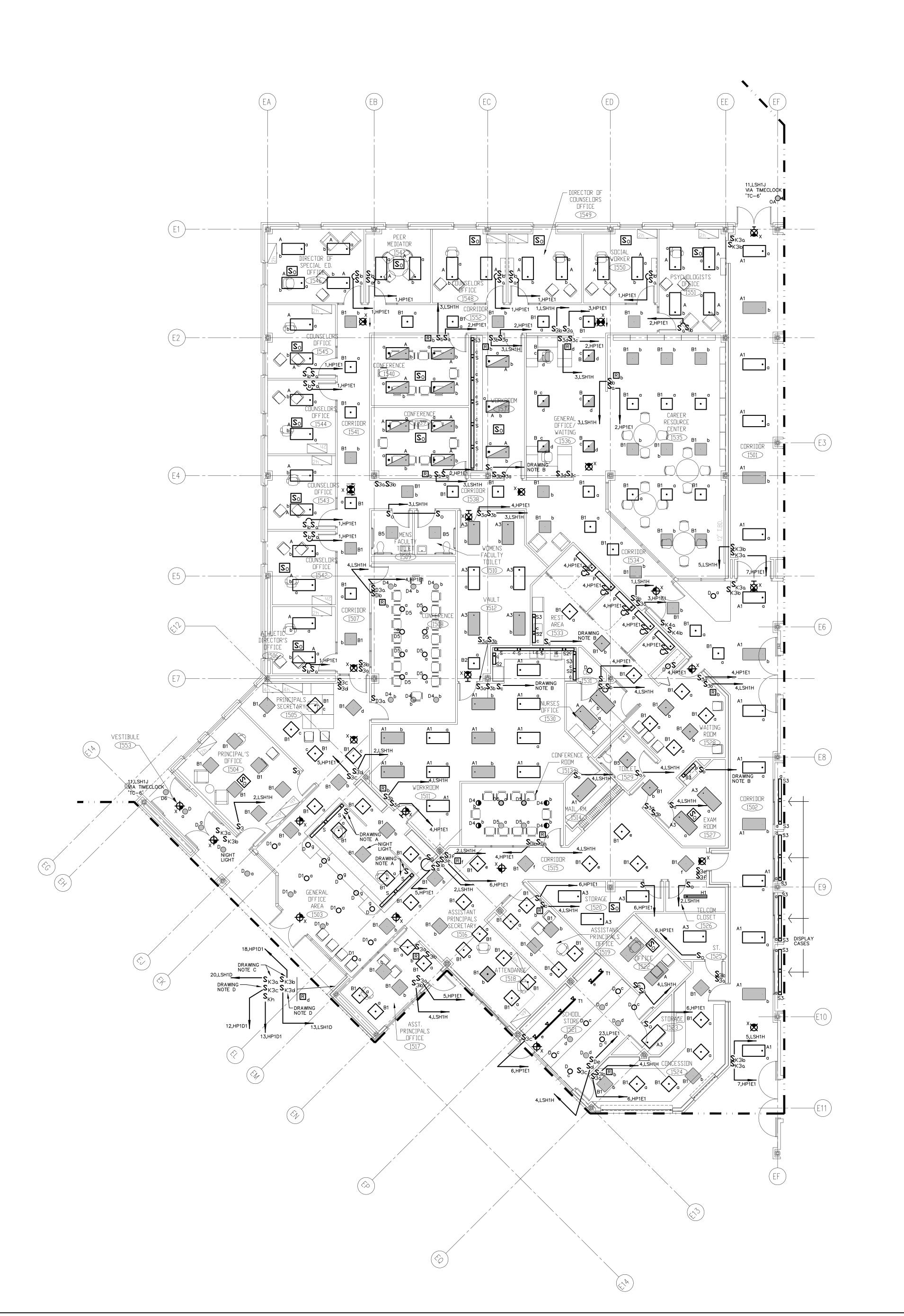
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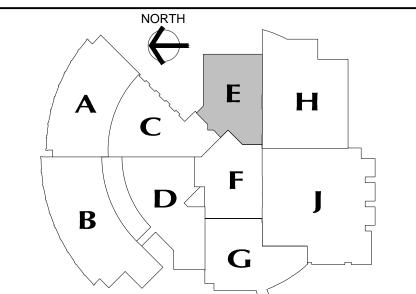
DATE: JANUARY 20, 2001

DRAWING NO.:

E1.09

File Name: e1d3.dwg





DRAWINGS ISSUED FOR STATE

AND CONSTRUCTION PURPOSES

DEPARTMENT OF EDUCATION

REVISIONS

REVIEW OF PHASE II DEPARTMENT OF EDUCATION



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT

06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.00

DRAWING NOTES:

- A. PROVIDE (8) TYPE "S" UNDERCABINET STYLE LIGHT FIXTURES AT GENERAL OFFICE AREA #1503 MILLWORK, (2) EACH AT EACH SIDE RETURN AND (4) FIXTURES AT FRONT OF DESK, (NOT SHOWN).
 COORDINATE LOCATION OF FIXTURES AND ASSOCIATED SWITCHES WITH
 ARCHITECT AND MILLWORK SHOP DRAWINGS. CONNECT ALL FIXTURES TO
 LOCAL 120 VOLT RECEPTACLE CIRCUIT.
- CONNECT TYPE "S" SERIES UNDERCABINET LIGHT FIXTURES TO LOCAL 120 VOLT RECEPTACLE CIRCUIT.
- C. SWITCHES FOR CONTROL OF LIGHT FIXTURES IN COMMONS 1601 AREA, SEE DRAWING E1.06 FOR ADDITIONAL INFORMATION.
- SWITCHES FOR CONTROL OF LIGHT FIXTURES IN COMMONS 1601 AREA, SEE DRAWING E1.12 FOR ADDITIONAL INFORMATION.

GENERAL LIGHTING NOTES:

- 2. REFER TO THE LIGHTING FIXTURE SCHEDULE ON DWG. E4.01 FOR ADDITIONAL INFORMATION ON LIGHT FIXTURES.
- 3. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
- 4. ALL EXIT SIGNS AND AREA OF REFUGE SIGNS SHALL BE WIRED AHEAD OF ANY SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINOUS CHARGING AND AC CIRCUIT
- 5. EMERGENCY LIGHTING FIXTURES, (ANY BATTERY TYPE UNITS), SHALL BE WIRED AHEAD OF SWITCH ON LINE SIDE OF LOCAL

LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND

- AC CIRCUIT MONITORING AND SUCH THAT FIXTURE ILLUMINATES UPON FAILURE OF NORMAL POWER. 6. REFER TO DRAWING #E3.01 AND #E3.02 ELECTRICAL FOR LIGHTING WIRING SCHEMATICS.
- 7. LIGHT FIXTURES NOTED BY THE SUBSCRIPT "NL" (NIGHT LIGHT) SHALL HAVE AT LEAST (2) TWO LAMPS WIRED FOR CONTINUOUS OPERATION.
- 1. REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

 8. SINGLE AREAS OR ROOMS SHOWN WITH (2) SWITCHES ['SS', 'S3,S3,' 'S0,S'] DESIGNATES DUAL LEVEL SWITCHING WITH THE INBOARD LAMPS WIRED TO ONE SWITCH AND THE OUTBOARD LAMPS WIRED TO SECOND SWITCH. THIS OCCURS IN AREAS OR ROOMS WITH LIGHTING FIXTURES CONTAINING TWO BALLASTS. IN ROOMS WHERE EMERGENCY LIGHTING FIXTURES ARE DESIGNATED, ONE SWITCH CONTROLS THE INBOARD LAMPS THRU THE RELAY WIRED THE EMERGENCY BRANCH CIRCUIT; THE OTHER SWITCH CONTROLS THE OUTBOARD LAMPS WIRED ON THE NORMAL POWER BRANCH CIRCUIT.
 - CORRIDOR AREAS SHOWN WITH (2) SWITCHES DESIGNATES THE FOLLOWING: ALL LIGHTING FIXTURÉS IN THIS AREA THAT ARE FED FROM NORMAL POWER SHALL BE WIRED TO ONE SWITCH. ALL LIGHTING FIXTURES IN THIS AREA THAT ARE FED FROM EMERGENCY POWER ARE WIRED TO SECOND SWITCH. THESE FIXTURES CONTAIN ONE BALLAST.
 - 10. COORDINATE LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC., ADJUST FIXTURE LOCATIONS AS REQUIRED.
 - 11. ALL EXTERIOR LIGHTING FIXTURES SHOWN ON FLOOR PLANS SHALL BE WIRED WITH 2#10, 1#10G., 3/4"C TO PANEL



416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361

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PROJECT NO.: 00048

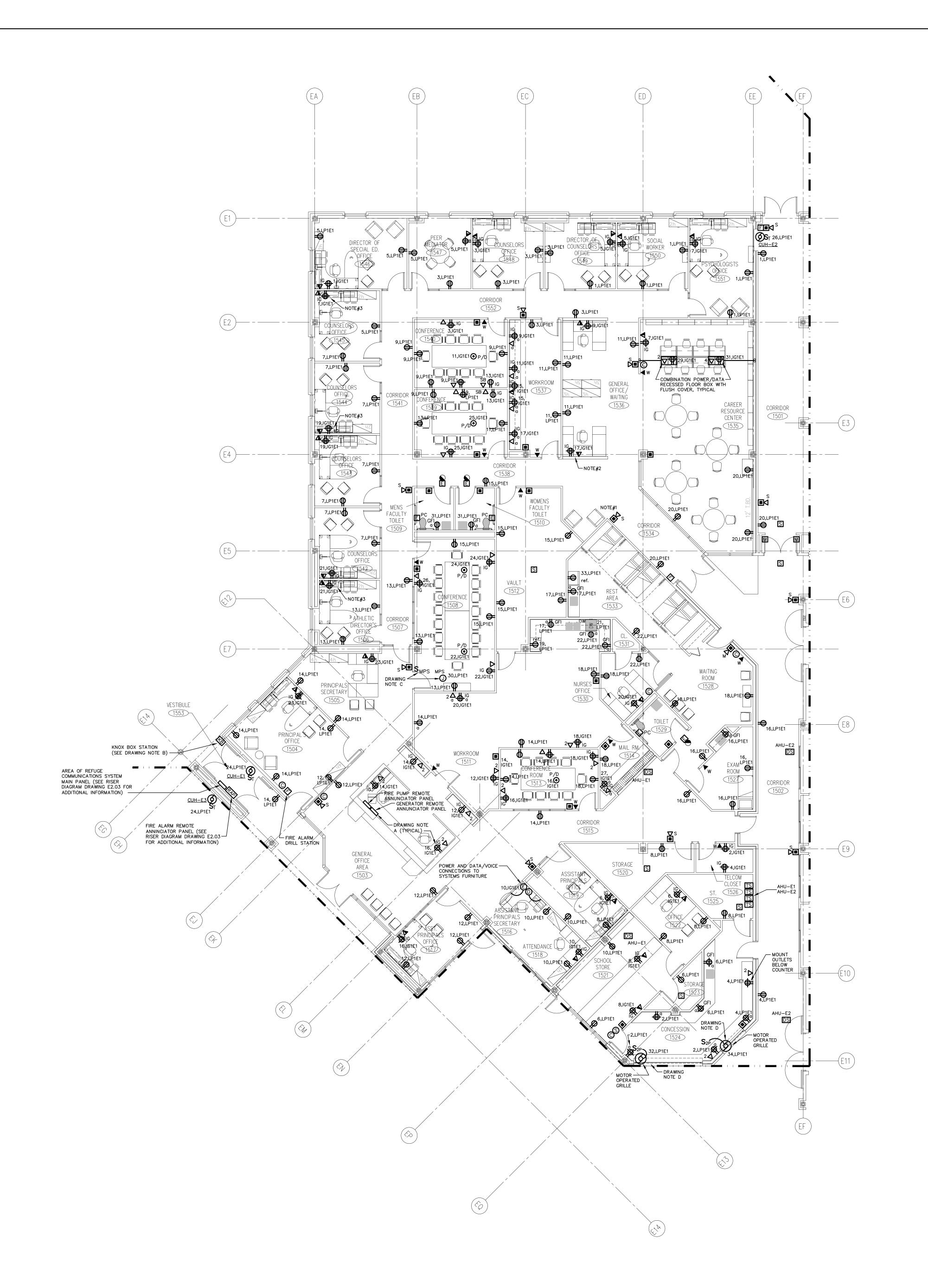
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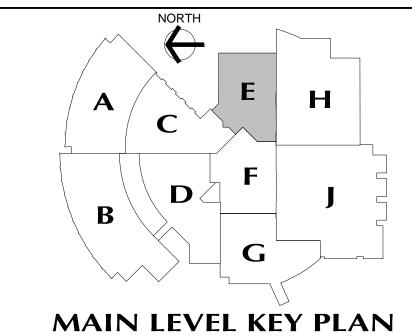
DRAWING NO.:

SCALE: 1/8" = 1'-0"

DATE: JANUARY 20, 2001

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REVISIONS

DATE JANUARY 29, 2001

FEBRUARY 21, 2001

JUNE 22, 2001

DESCRIPTI
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
REVIEW OF PHASE II
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
RESUBMISSION OF PHASE II
DRAWINGS ISSUED FOR BIDDING
AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620

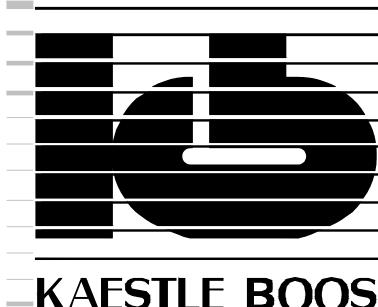
vZHS PROJECT NUMBER: 2000155.00

DRAWING NOTES :

- A. COORDINATE LOCATIONS OF OUTLETS, GENERATOR AND FIRE PUMP REMOTE ANNUNCIATOR PANELS WITH ARCHITECT AND MILLWORK SHOP DRAWINGS PRIOR TO INSTALLATION.
- B. KNOX BOX UNIT FURNISHED AND INSTALLED BY OTHERS, PROVIDE CONNECTION TO FIRE ALARM INITIATION LOOP WIRING FOR MONITORING OF BOX
- C. MOTORIZED PROJECTION SCREEN UNIT FURNISHED AND INSTALLED BY OTHERS, FINAL ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR. MOTORIZED PROJECTION SCREEN RAISE/LOWER SWITCH UNIT FURNISHED WITH SCREEN BY OTHERS, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR PER MANUFACTURER'S SHOP DRAWINGS. VERIFY EXACT LOCATION OF SCREEN AND CONTROL SWITCH PRIOR TO INSTALLATION.

GENERAL POWER NOTES:

- REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO START OF WORK.
- 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN PANELBOARD.
- 4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE—LINE RISER DIAGRAM.
- 5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.
- REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER DIAGRAM.
- 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- 8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS, (T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.



A DOCUMENTO

ARCHITECTS

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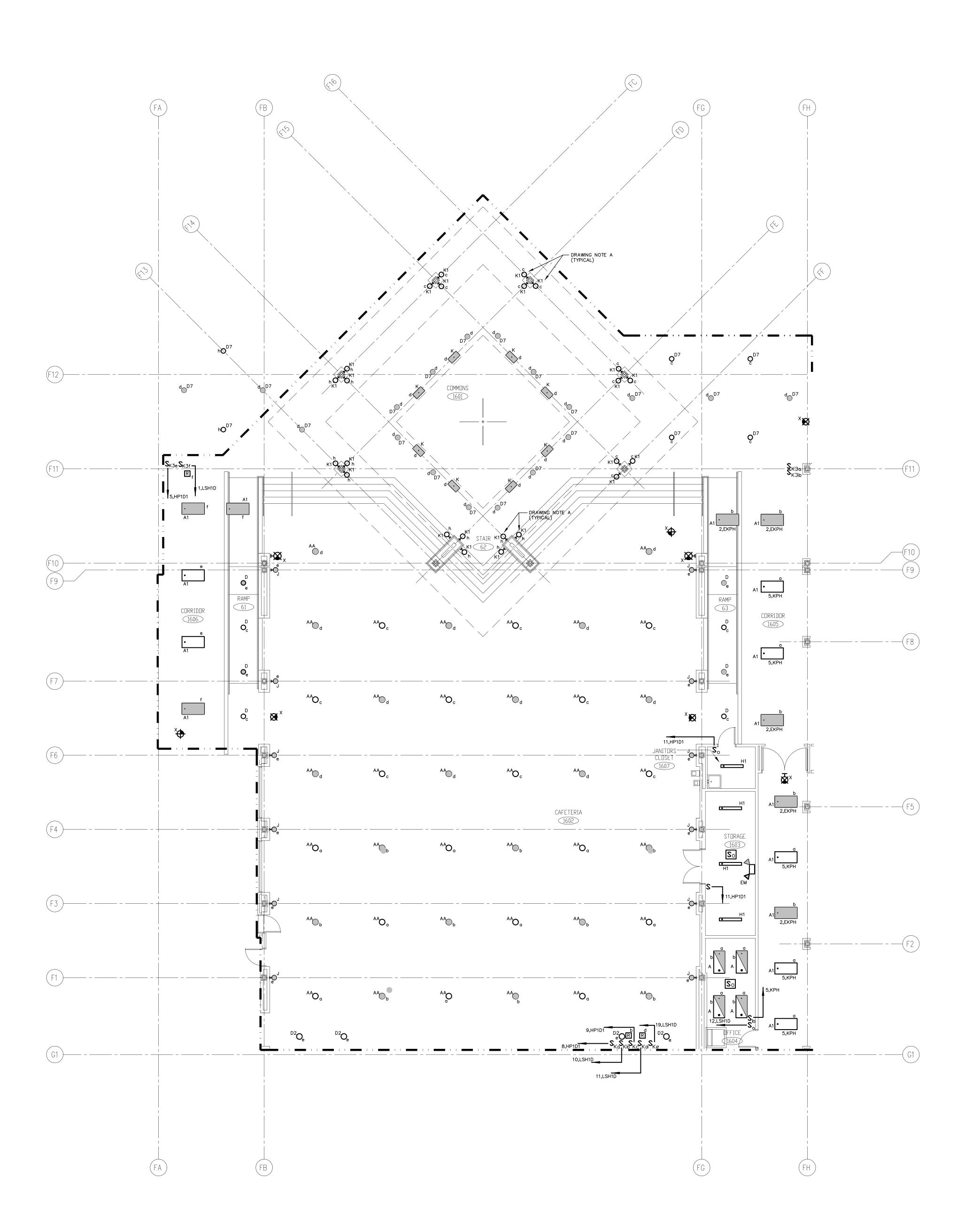
MAIN LEVEL POWER PLAN AREA E

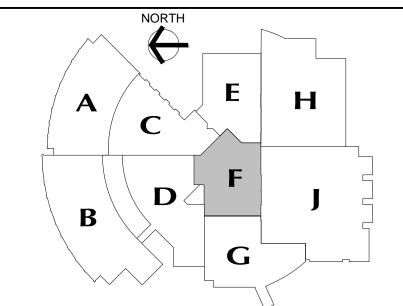
PROJECT NO.: 00048

DRAWING NO.:

DATE: JANUARY 20, 2001

E1.11





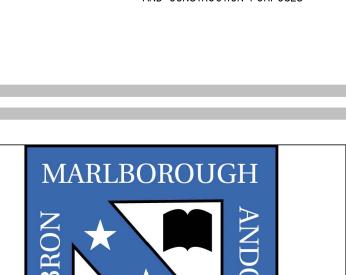
REVISIONS

JANUARY 29, 2001

JUNE 22, 2001

FEBRUARY 21, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION
RESUBMISSION OF PHASE II
DRAWINGS ISSUED FOR BIDDING
AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL

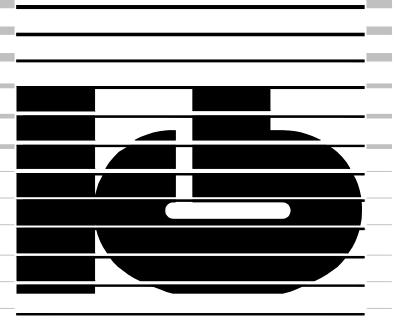
WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING



vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361

DRAWN BY: SCALE: 1/8" = 1'-0"CHECKED BY:

PROJECT NO.: 00048

DRAWING NO.:

DATE: JANUARY 20, 2001

DRAWING NOTES:

A. REFER TO DRAWINGS E1.10 AND E1.18 FOR COMMONS 1601 AREA LIGHT SWITCH LOCATIONS.

GENERAL LIGHTING NOTES:

- REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. REFER TO THE LIGHTING FIXTURE SCHEDULE ON DWG. E4.01 FOR ADDITIONAL INFORMATION ON LIGHT FIXTURES.

3. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN

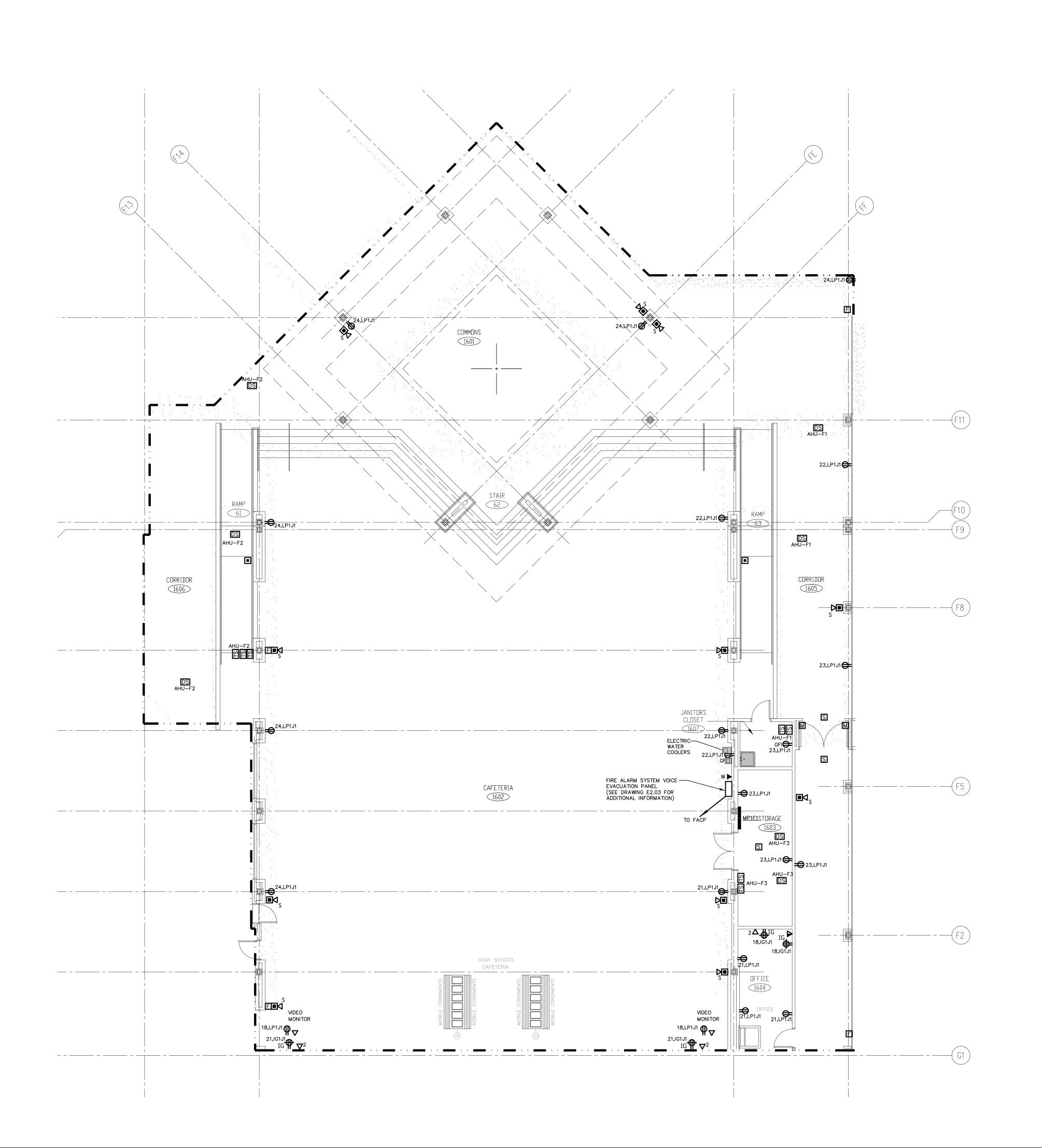
- DRAWINGS FOR THE EXACT LOCATION OF ALL LIGHTING
- 4. ALL EXIT SIGNS AND AREA OF REFUGE SIGNS SHALL BE WIRED AHEAD OF ANY SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINOUS CHARGING AND AC CIRCUIT MONITORING.
- 5. EMERGENCY LIGHTING FIXTURES, (ANY BATTERY TYPE UNITS), SHALL BE WIRED AHEAD OF SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING AND SUCH THAT FIXTURE ILLUMINATES UPON FAILURE OF NORMAL POWER.
- 6. REFER TO DRAWING #E3.01 AND #E3.02 ELECTRICAL FOR LIGHTING WIRING SCHEMATICS.
- 7. LIGHT FIXTURES NOTED BY THE SUBSCRIPT "NL" (NIGHT LIGHT) SHALL HAVE AT LEAST (2) TWO LAMPS WIRED FOR CONTINUOUS OPERATION.
- SINGLE AREAS OR ROOMS SHOWN WITH (2) SWITCHES ['SS', 'S3,S3,' 'S0,S'] DESIGNATES DUAL LEVEL SWITCHING WITH THE INBOARD LAMPS WIRED TO ONE SWITCH AND THE OUTBOARD LAMPS WIRED TO SECOND SWITCH. THIS OCCURS IN AREAS OR ROOMS WITH LIGHTING FIXTURES CONTAINING TWO BALLASTS.
 IN ROOMS WHERE EMERGENCY LIGHTING FIXTURES ARE
 DESIGNATED, ONE SWITCH CONTROLS THE INBOARD LAMPS THRU THE RELAY WIRED THE EMERGENCY BRANCH CIRCUIT;

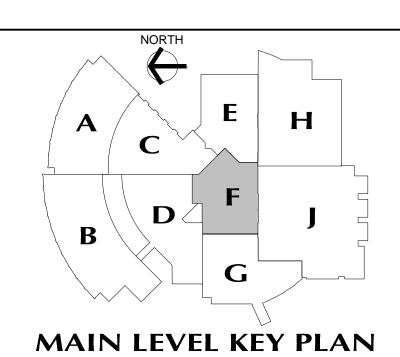
ON THE NORMAL POWER BRANCH CIRCUIT.

9. CORRIDOR AREAS SHOWN WITH (2) SWITCHES DESIGNATES THE FOLLOWING: ALL LIGHTING FIXTURÉS IN THIS AREA THAT ARE FED FROM NORMAL POWER SHALL BE WIRED TO ONE SWITCH. ALL LIGHTING FIXTURES IN THIS AREA THAT ARE FED FROM EMERGENCY POWER ARE WIRED TO SECOND SWITCH. THESE FIXTURES CONTAIN ONE BALLAST.

THE OTHER SWITCH CONTROLS THE OUTBOARD LAMPS WIRED

- 10. COORDINATE LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC., ADJUST FIXTURE LOCATIONS AS REQUIRED.
- 11. ALL EXTERIOR LIGHTING FIXTURES SHOWN ON FLOOR PLANS SHALL BE WIRED WITH 2#10, 1#10G., 3/4"C TO PANEL





REVISIONS

JANUARY 29, 2001 FEBRUARY 21, 2001

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NEW RHAM HIGH SCHOOL

WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS



29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420 TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS ASSOCIATES,INC. ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361

GENERAL POWER NOTES:

PANELBOARD.

RISER DIAGRAM.

REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS

RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO START OF WORK.

3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER

IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12,

4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE-LINE

5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.

7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.

8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION

(T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.

BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS,

REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER DIAGRAM.

1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN

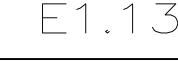
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MAIN LEVEL

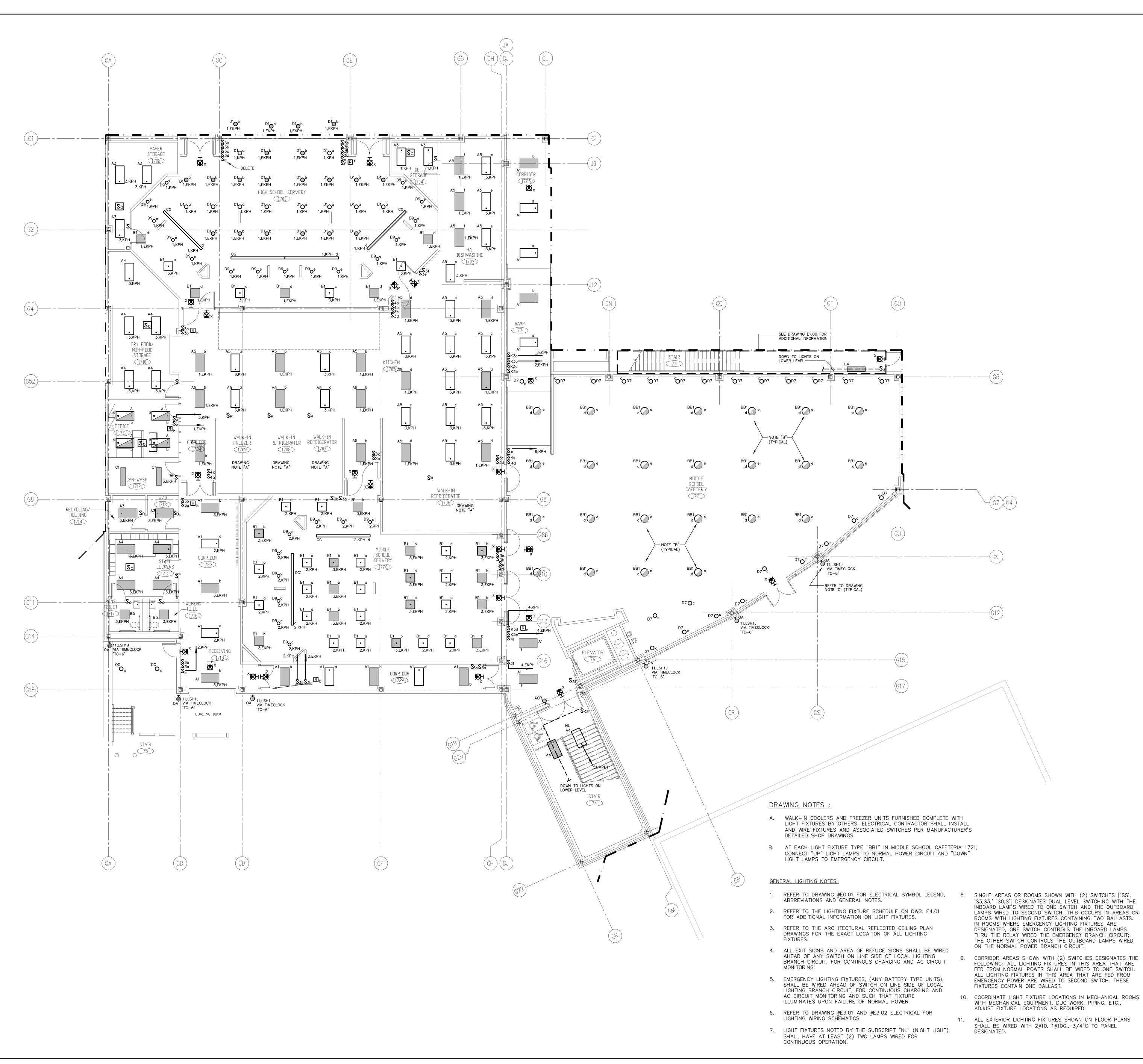
PROJECT NO.: 00048

DRAWING NO.:

DATE: JANUARY 20, 2001



SCALE: 1/8" = 1'-0"



REVISIONS

DATE JANUARY 29, 2001 FEBRUARY 21, 2001

JUNE 22, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL

WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS



vZHS PROJECT NUMBER: 2000155.00

ASSOCIATES,INC.

ARCHITECTS

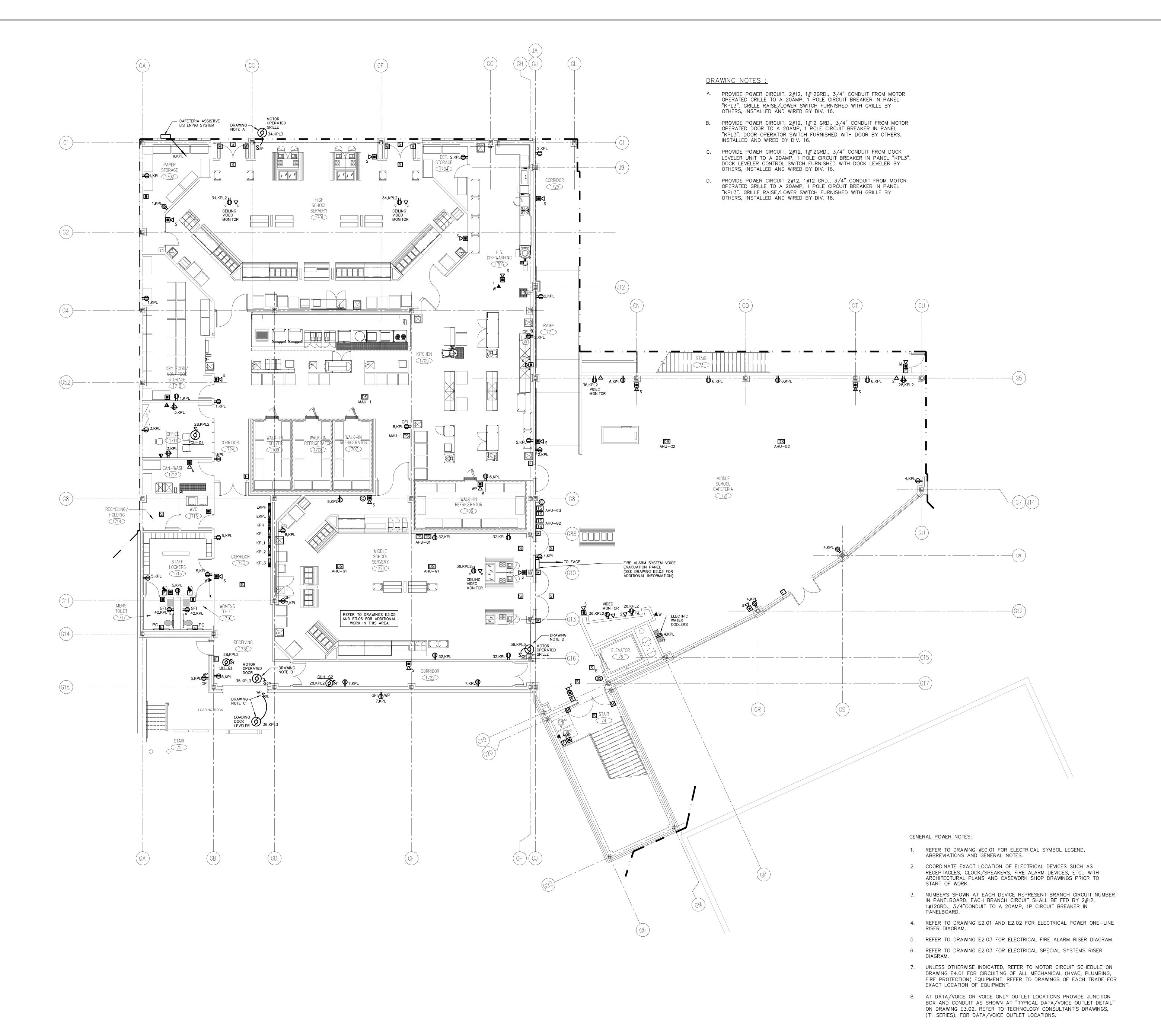
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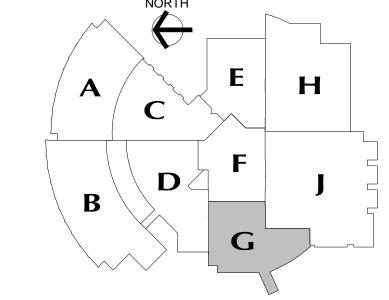
416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 SCALE: 1/8" = 1'-0"

PROJECT NO.: 00048

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REVISIONS

DATE MA JANUARY 29, 2001

FEBRUARY 21, 2001

JUNE 22, 2001

DESCRIPTION
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
REVIEW OF PHASE II
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
RESUBMISSION OF PHASE II
DRAWINGS ISSUED FOR BIDDING

DEPARTMENT OF EDUCATION
RESUBMISSION OF PHASE II
DRAWINGS ISSUED FOR BIDDING
AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT

06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

SOUTH MAIN STREET WEST HARTFORD CT 06107-24

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420 TEL (860) 521-4329 FAX (860) 521-5620 VZHS PROJECT NUMBER: 2000155.00



ASSOCIATES,INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050–2590 (860) 229–0361

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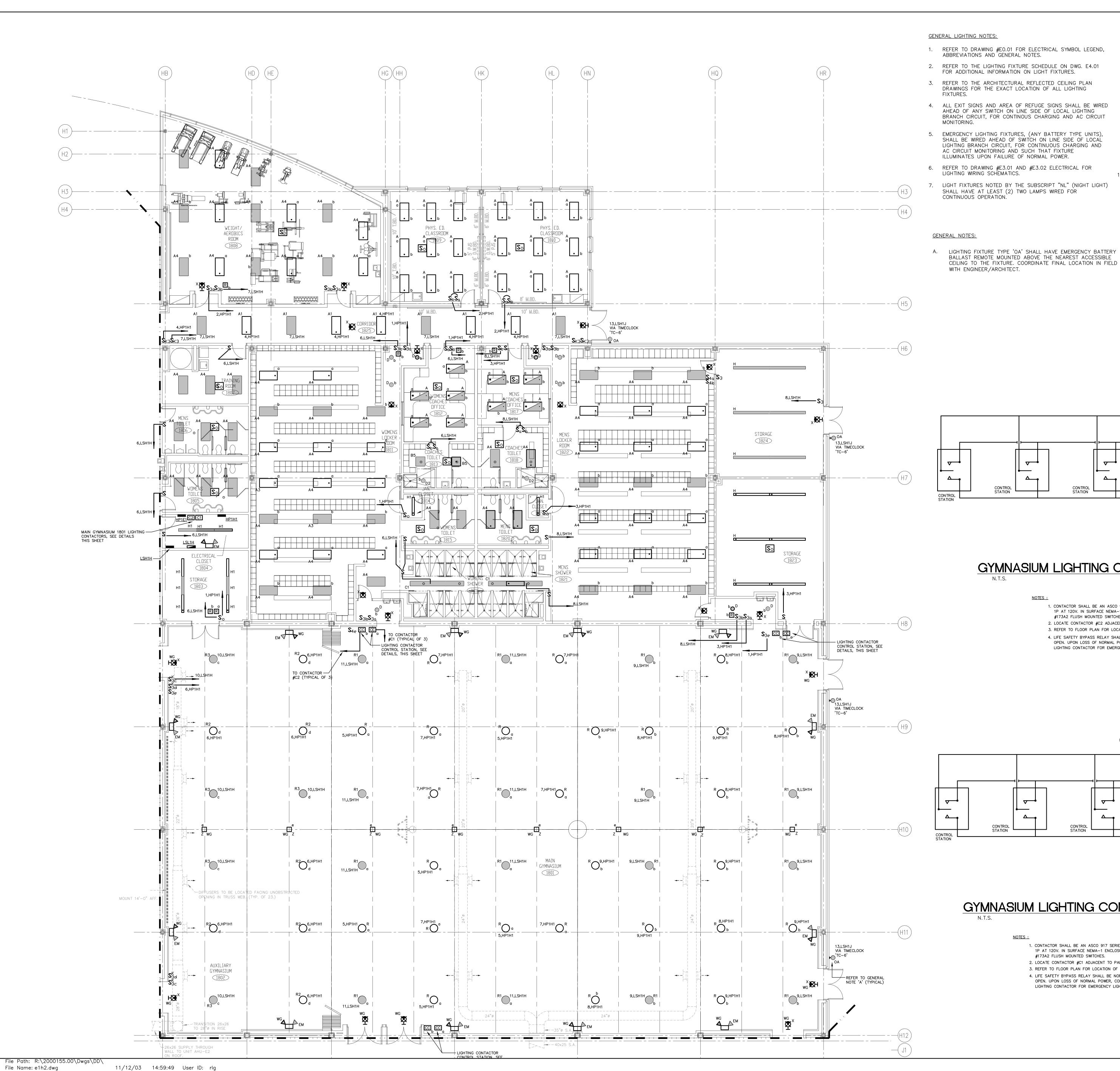
MAIN LEVEL POWER PLAN AREA G

PROJECT NO.: 00048

DRAWING NO.:

DATE: JANUARY 20, 2001

E1.15



GENERAL LIGHTING NOTES:

- 1. REFER TO DRAWING #EO.01 FOR ELECTRICAL SYMBOL LEGEND, 8. ABBREVIATIONS AND GENERAL NOTES.
- FOR ADDITIONAL INFORMATION ON LIGHT FIXTURES. 3. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN
- DRAWINGS FOR THE EXACT LOCATION OF ALL LIGHTING
- 4. ALL EXIT SIGNS AND AREA OF REFUGE SIGNS SHALL BE WIRED AHEAD OF ANY SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINOUS CHARGING AND AC CIRCUIT
- 5. EMERGENCY LIGHTING FIXTURES, (ANY BATTERY TYPE UNITS), SHALL BE WIRED AHEAD OF SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING AND SUCH THAT FIXTURE ILLUMINATES UPON FAILURE OF NORMAL POWER.
- 6. REFER TO DRAWING #E3.01 AND #E3.02 ELECTRICAL FOR LIGHTING WIRING SCHEMATICS.

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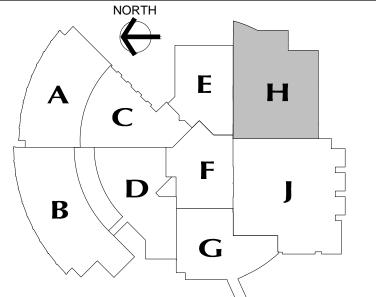
- LIGHT FIXTURES NOTED BY THE SUBSCRIPT "NL" (NIGHT LIGHT) SHALL HAVE AT LEAST (2) TWO LAMPS WIRED FOR CONTINUOUS OPERATION.
- SINGLE AREAS OR ROOMS SHOWN WITH (2) SWITCHES ['SS', 'S3,S3,' 'S0,S'] DESIGNATES DUAL LEVEL SWITCHING WITH THE INBOARD LAMPS WIRED TO ONE SWITCH AND THE OUTBOARD LAMPS WIRED TO SECOND SWITCH. THIS OCCURS IN AREAS OR ROOMS WITH LIGHTING FIXTURES CONTAINING TWO BALLASTS. IN ROOMS WHERE EMERGENCY LIGHTING FIXTURES ARE DESIGNATED, ONE SWITCH CONTROLS THE INBOARD LAMPS THRU THE RELAY WIRED THE EMERGENCY BRANCH CIRCUIT; THE OTHER SWITCH CONTROLS THE OUTBOARD LAMPS WIRED ON THE NORMAL POWER BRANCH CIRCUIT.
- CORRIDOR AREAS SHOWN WITH (2) SWITCHES DESIGNATES THE FOLLOWING: ALL LIGHTING FIXTURES IN THIS AREA THAT ARE FED FROM NORMAL POWER SHALL BE WIRED TO ONE SWITCH. ALL LIGHTING FIXTURES IN THIS AREA THAT ARE FED FROM EMERGENCY POWER ARE WIRED TO SECOND SWITCH. THESE FIXTURES CONTAIN ONE BALLAST.
- 10. COORDINATE LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC., ADJUST FIXTURE LOCATIONS AS REQUIRED. 11. ALL EXTERIOR LIGHTING FIXTURES SHOWN ON FLOOR PLANS

TO TYPE "R" / "R1" LIGHT FIXTURES

9,LSH1H 9,HP1H1 8,HP1H1

TO CIRCUITS INDICATED

SHALL BE WIRED WITH 2#10, 1#10G., 3/4"C TO PANEL



MAIN LEVEL KEY PLAN

REVISIONS

JANUARY 29, 2001 FEBRUARY 21, 2001

JUNE 22, 2001

LIFE SAFETY

RELAY, SEE

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NEW RHAM HIGH SCHOOL

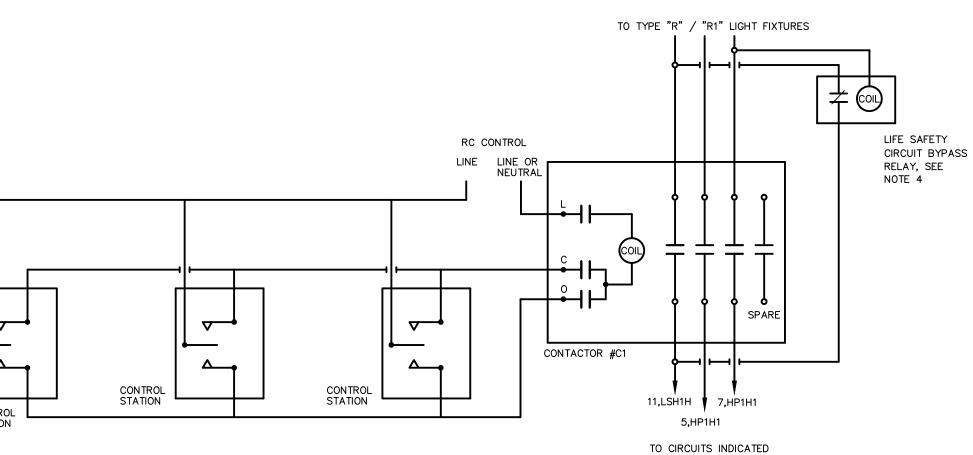
WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

vanZelmHeywood&ShadfordInc MECHANICAL AND ELECTRICAL ENGINEER

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420

TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



RC CONTROL

GYMNASIUM LIGHTING CONTACTOR #2 WIRING DETAIL

1. CONTACTOR SHALL BE AN ASCO 917 SERIES #917-4-20-3-1-C, WITH 4-20AMP 1P AT 120V. IN SURFACE NEMA-1 ENCLOSURE WITH STANDARD CONTROL BY ASCO

2. LOCATE CONTACTOR #C2 ADJACENT TO PANEL "HP1H1" IN ELECTRIC CLOSET 1804.

OPEN. UPON LOSS OF NORMAL POWER, CONTACT SHALL CLOSE AND BYPASS

LIGHTING CONTACTOR FOR EMERGENCY LIGHT ILLUMINATION.

#173A2 FLUSH MOUNTED SWITCHES.

GYMNASIUM LIGHTING CONTACTOR #1 WIRING DETAIL

NOTES:

1. CONTACTOR SHALL BE AN ASCO 917 SERIES #917-4-20-3-1-C, WITH 4-20AMP 1P AT 120V. IN SURFACE NEMA-1 ENCLOSURE WITH STANDARD CONTROL BY ASCO

- #173A2 FLUSH MOUNTED SWITCHES. 2. LOCATE CONTACTOR #C1 ADJACENT TO PANEL "HP1H1" IN ELECTRIC CLOSET 1804.
- 3. REFER TO FLOOR PLAN FOR LOCATION OF CONTACTOR CONTROL STATIONS. 4. LIFE SAFETY BYPASS RELAY SHALL BE NORMALLY CLOSED, ELECTRICALLY HELD
- OPEN. UPON LOSS OF NORMAL POWER, CONTACT SHALL CLOSE AND BYPASS LIGHTING CONTACTOR FOR EMERGENCY LIGHT ILLUMINATION.

KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

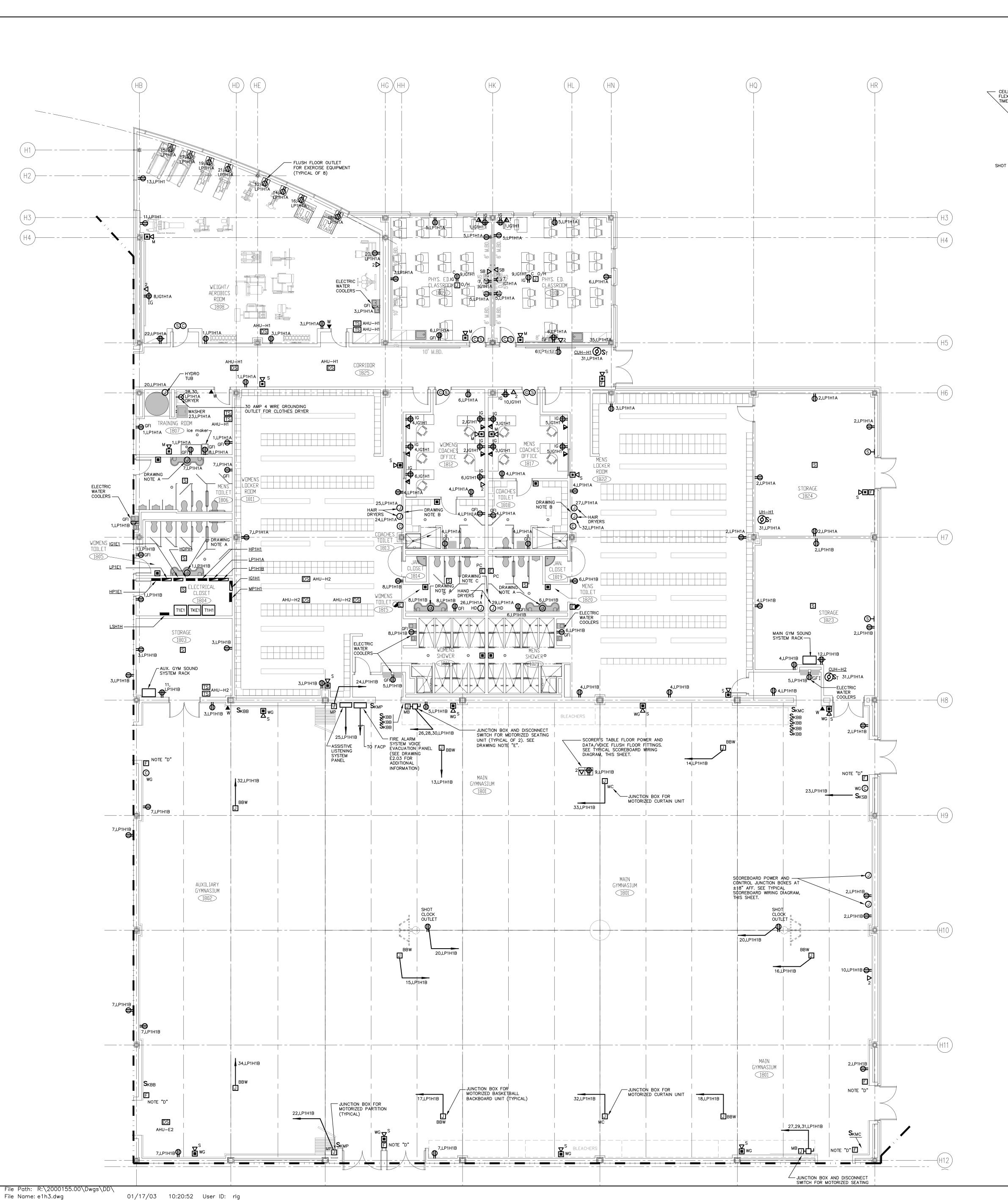
416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY: CHECKED BY: SCALE: 1/8" = 1'-0"

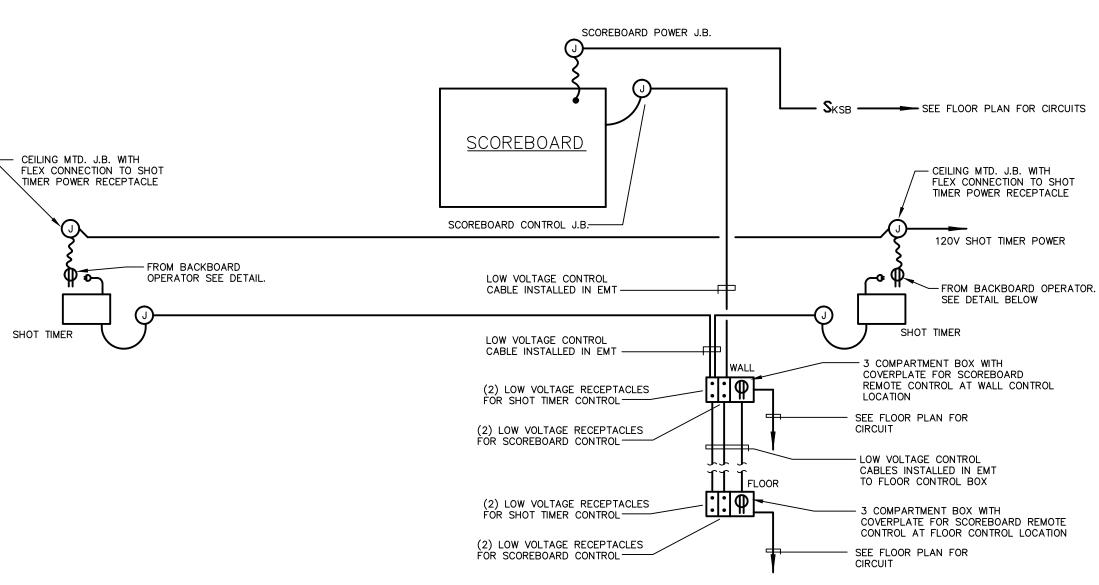
MAIN LEVEL LIGHTING **PLAN** AREA H

PROJECT NO.: 00048

DRAWING NO.:

E1.16 DATE: JANUARY 20, 2001



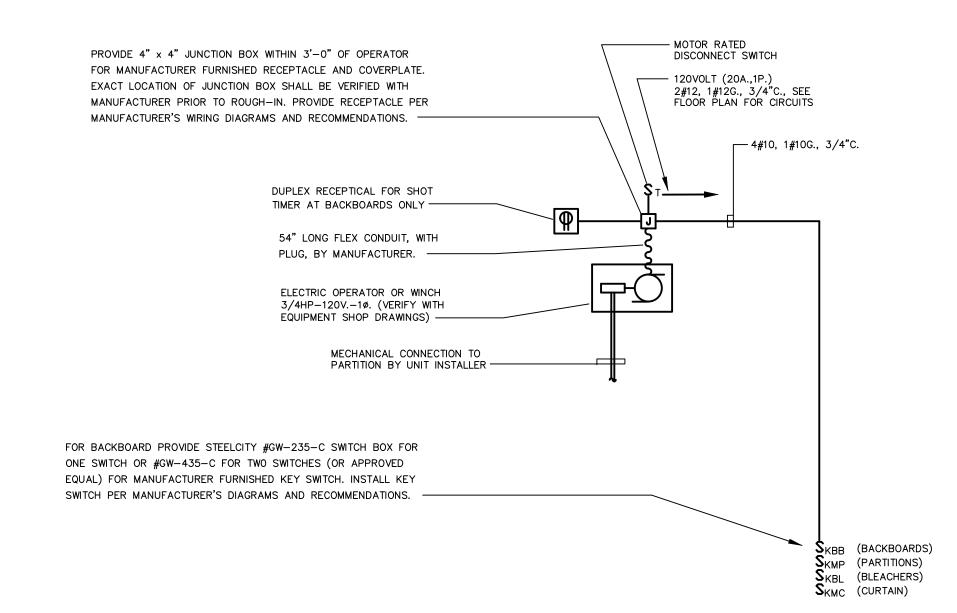


TYPICAL SCOREBOARD WIRING DIAGRAM

DETAIL NOTES:

1. POWER WIRING SHOULD BE ROUTED IN SEPARATE CONDUITS FROM CONTROL CABLES. ALL SCOREBOARD SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT AND CONDUITS SHALL BE SIZED AS PER MANUFACTURER'S RECOMMENDATIONS FOR CABLE INSTALLED AND PER NEC

- 2. SEE FLOOR PLAN FOR QUANTITIES OF EQUIPMENT SHOWN ABOVE.
- 3. VERIFY LOCATIONS OF ALL EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION.



TYPICAL ELECTRICAL OPERATOR WIRING DIAGRAM FOR BACKBOARD, PARTITION, CURTAIN, OR BLEACHER

DETAIL NOTES: 1. SEE FLOOR PLAN FOR QUANTITIES AND LOCATIONS OF MOTORIZED DEVICES AND SWITCHES.

DRAWING NOTES:

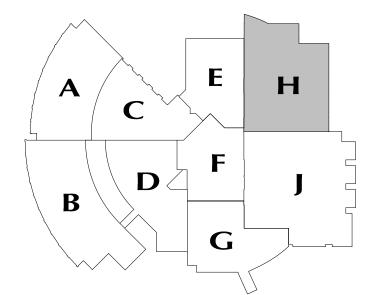
- A. JUNCTION BOX FOR ELECTRONIC SENSOR FAUCET, SEE DETAIL ON DRAWING E3.01 FOR ADDITIONAL REQUIREMENTS.
- B. HAIR DRYER UNIT FURNISHED BY OTHERS, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- HAND DRYER UNIT FURNISHED BY OTHERS, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- PROVIDE CLEAR LEXAN FLIP-UP COVERS AT FIRE ALARM MANUAL PULL STATIONS IN MAIN GYMNASIUM 1801 AND AUXILIARY GYM 1802. FLIP COVERS SHALL BE CONNECTED TO FIRE ALARM SYSTEM AND INDICATE "TROUBLE" ALARM AT FIRE ALARM CONTROL PANEL WHEN RAISED.
- POWER CONNECTION POINT FOR MOTORIZED SEATING UNIT. PROVIDE A 30AMP, 3P, 208VOLT, NON-FUSED, LOCKABLE, DISCONNECT SWITCH AT 4'-0"AFF. EXTEND MOTOR FEEDER CONDUCTORS, 3#12, 1#12GRD., IN 3/4"CONDUIT FROM DISCONNECT SWITCH TO A NEW 20AMP, 3P CIRCUIT BREAKER IN PANEL "LP1H1B". EXTEND 3#12, 1#12GRD., IN 3/4"CONDUIT FROM DISCONNECT SWITCH TO A NEW 12"x12"x6" SCREW COVER JUNCTION BOX AT 1'-6" O.C. AFF. WIRING FROM SEATING UNIT MOTORS TO JUNCTION BOX AND FINAL CONNECTIONS BY SEATING UNIT SYSTEM INSTALLER. VERIFY EXACT LOCATION OF DISCONNECT SWITCH AND JUNCTION BOX WITH SEATING UNIT INSTALLER, ((860) 633-4655, JAY LEMBO, AT ROBERT LORD CO.), PRIOR TO INSTALLATION.

GENERAL POWER NOTES:

- 1. REFER TO DRAWING #EO.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO
- 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN
- 4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE-LINE RISER DIAGRAM.
- 5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.
- 6. REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER
- DIAGRAM. 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR

EXACT LOCATION OF EQUIPMENT.

8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS, (T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.



MAIN LEVEL KEY PLAN

REVISIONS JANUARY 29, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II FEBRUARY 21, 2001 DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING JUNE 22, 2001

AND CONSTRUCTION PURPOSES

DESCRIPTION



NEW RHAM HIGH SCHOOL **WALL STREET** HEBRON, CONNECTICUT

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

06248

vanZelmHeywood&ShadfordInc MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.00

KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 SCALE: 1/8" = 1'-0"DRAWN BY: CHECKED BY:

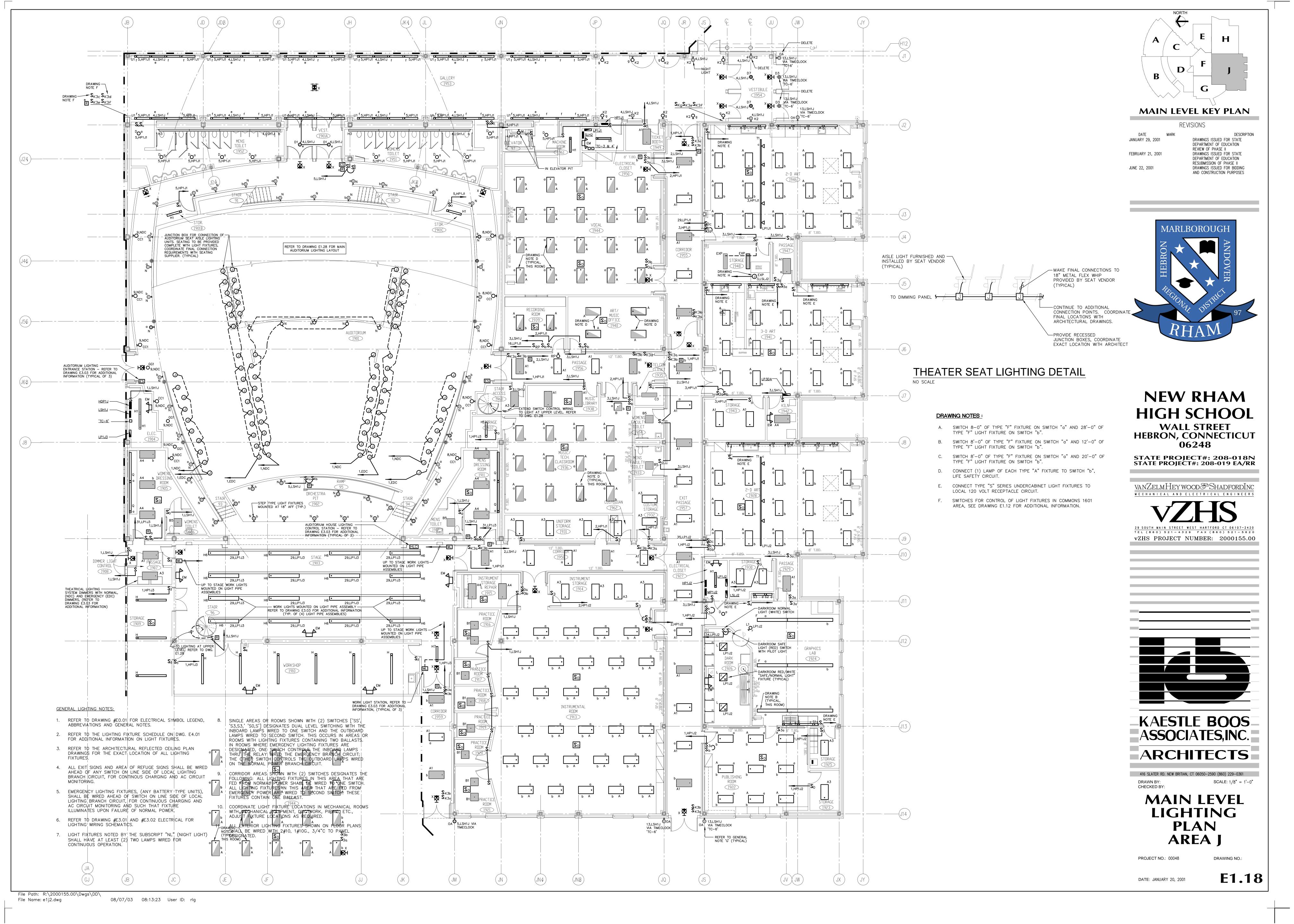
MAIN LEVEL **POWER** PLAN **AREA H**

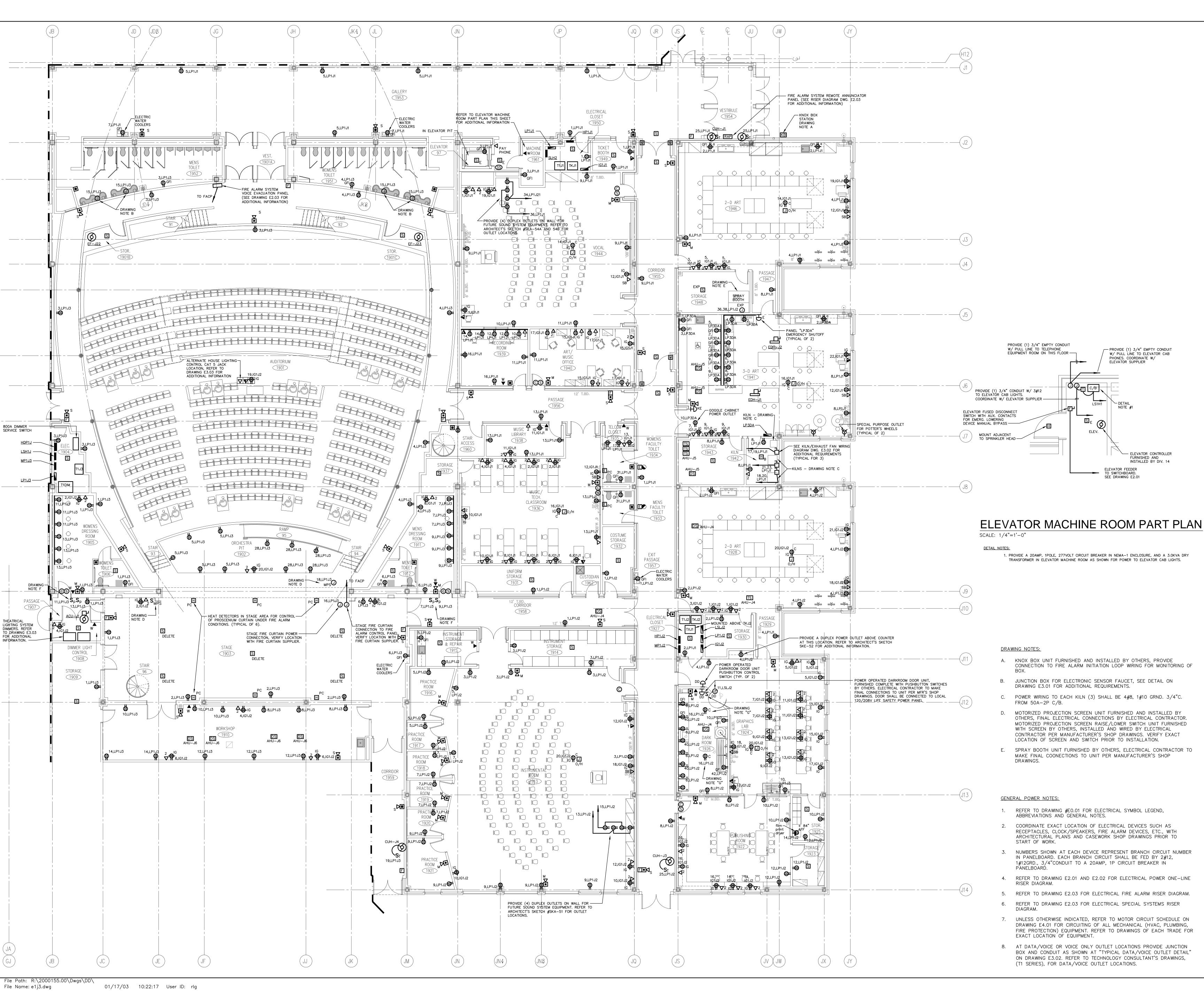
PROJECT NO.: 00048

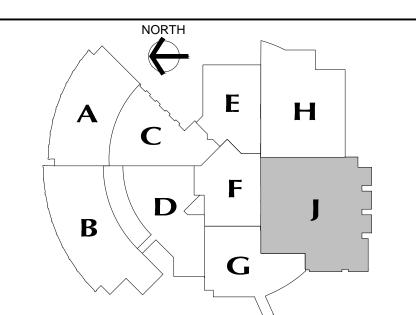
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DATE: JANUARY 20, 2001

File Name: e1h3.dwg







REVISIONS

JANUARY 29, 2001 FEBRUARY 21, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING

IECHANICAL AND ELECTRICAL ENGINEERS

TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00

- SPRAY BOOTH UNIT FURNISHED BY OTHERS, ELECTRICAL CONTRACTOR TO
- 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER
- 4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE-LINE
- 5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.
- BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS,



ARCHITECTS

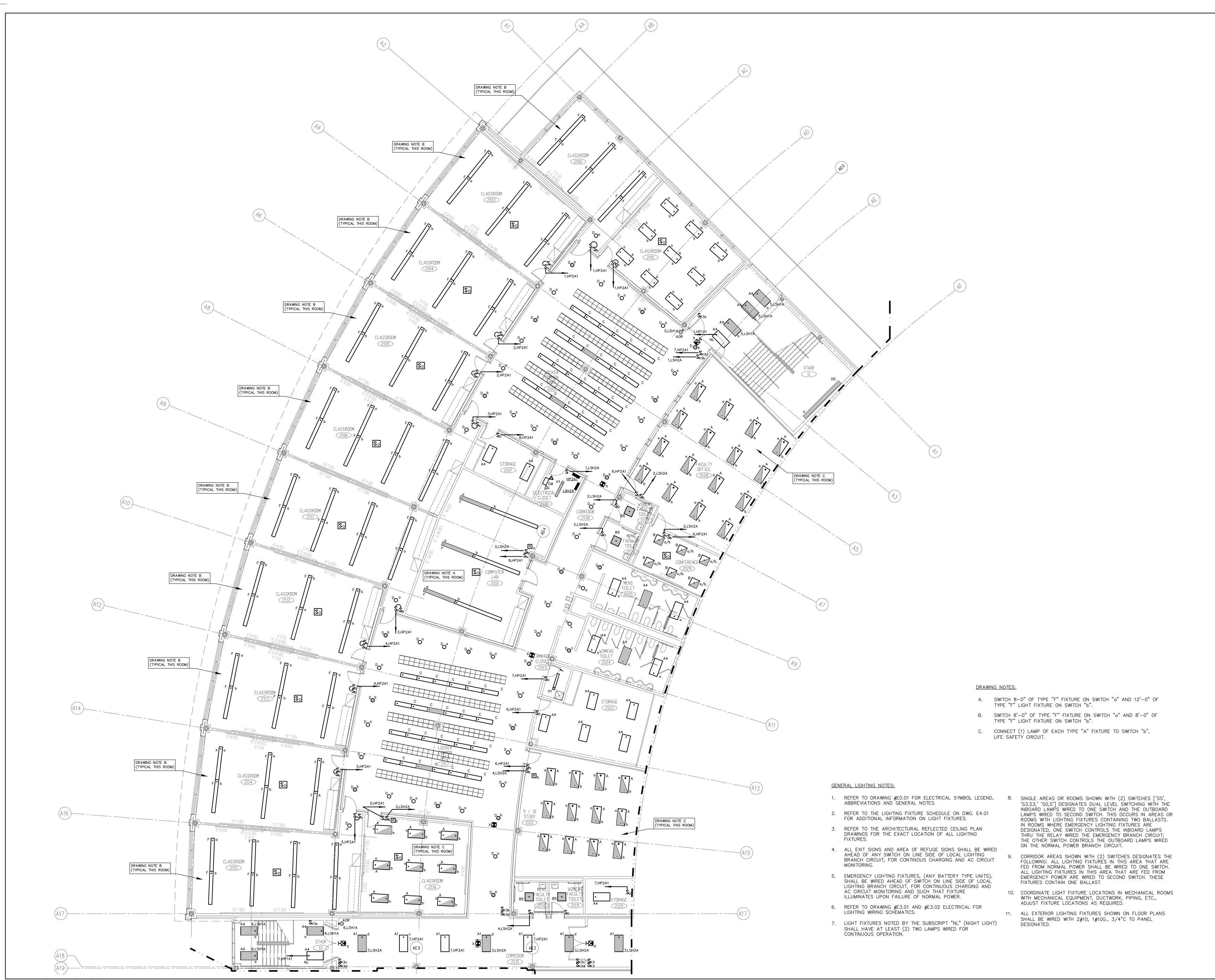
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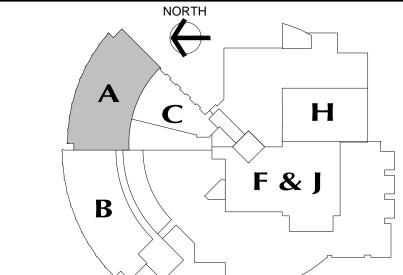
MAIN LEVEL **POWER PLAN AREA J**

PROJECT NO.: 00048

DRAWING NO.:

E1.19 DATE: JANUARY 20, 2001





REVISIONS

DATE

JUNE 22, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION

RESUBMISSION OF PHASE II
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AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL

WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.00

_KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

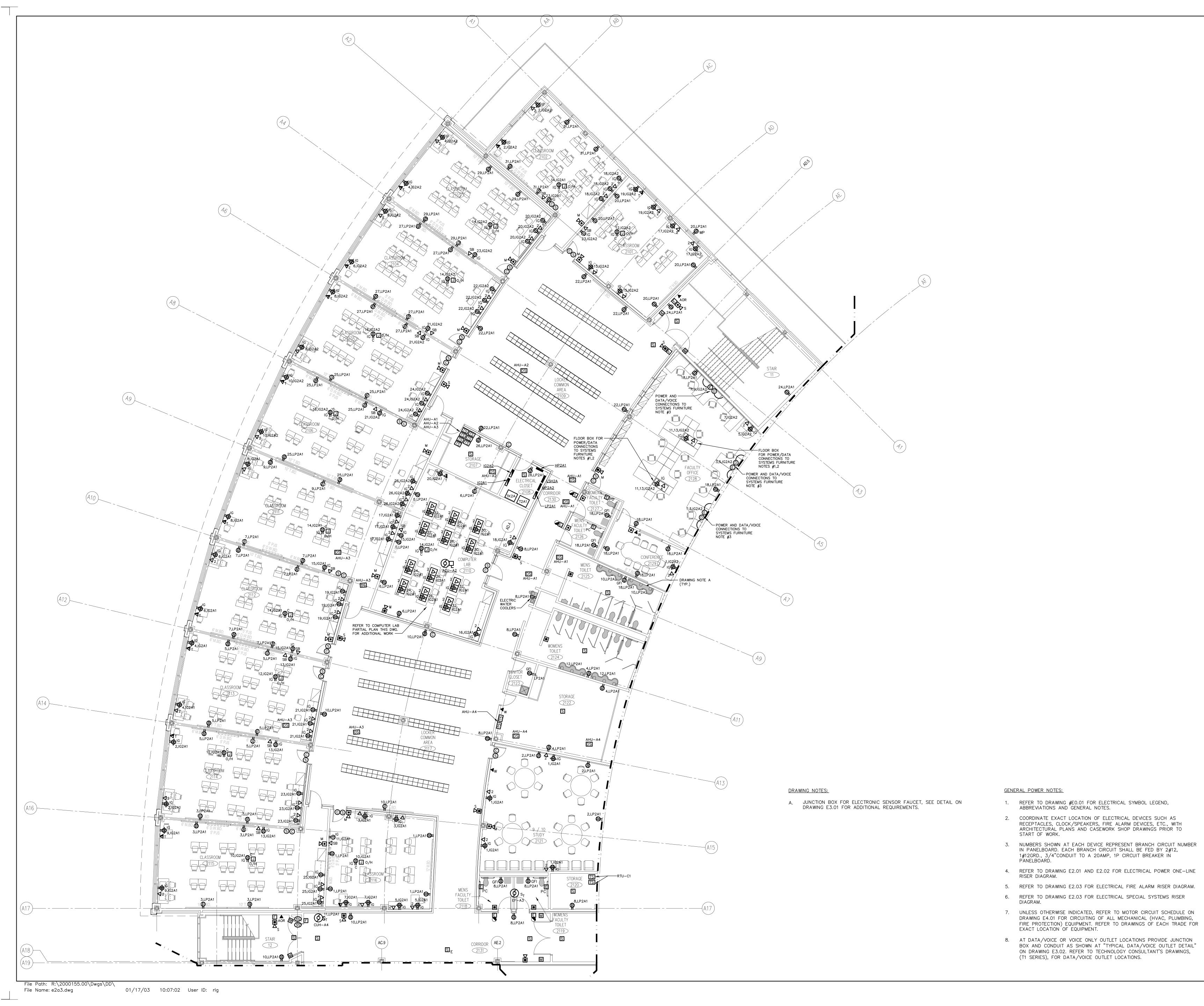
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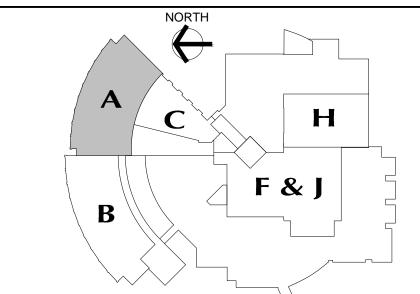
UPPER LEVEL LIGHTING **PLAN** AREA A

PROJECT NO.: 00048

DRAWING NO.:

E1.20 DATE: JANUARY 20, 2001





REVISIONS

JUNE 22, 2001

FEBRUARY 21, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II

DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
RESUBMISSION OF PHASE II
DRAWINGS ISSUED FOR BIDDING
AND CONSTRUCTION PURPOSES



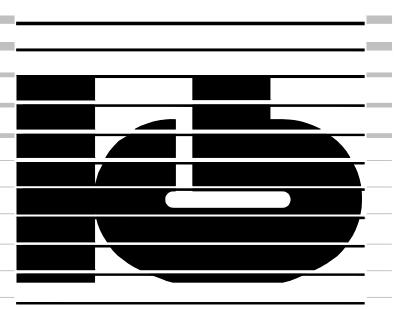
NEW RHAM HIGH SCHOOL

WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY: SCALE: 1/8" = 1'-0"CHECKED BY:

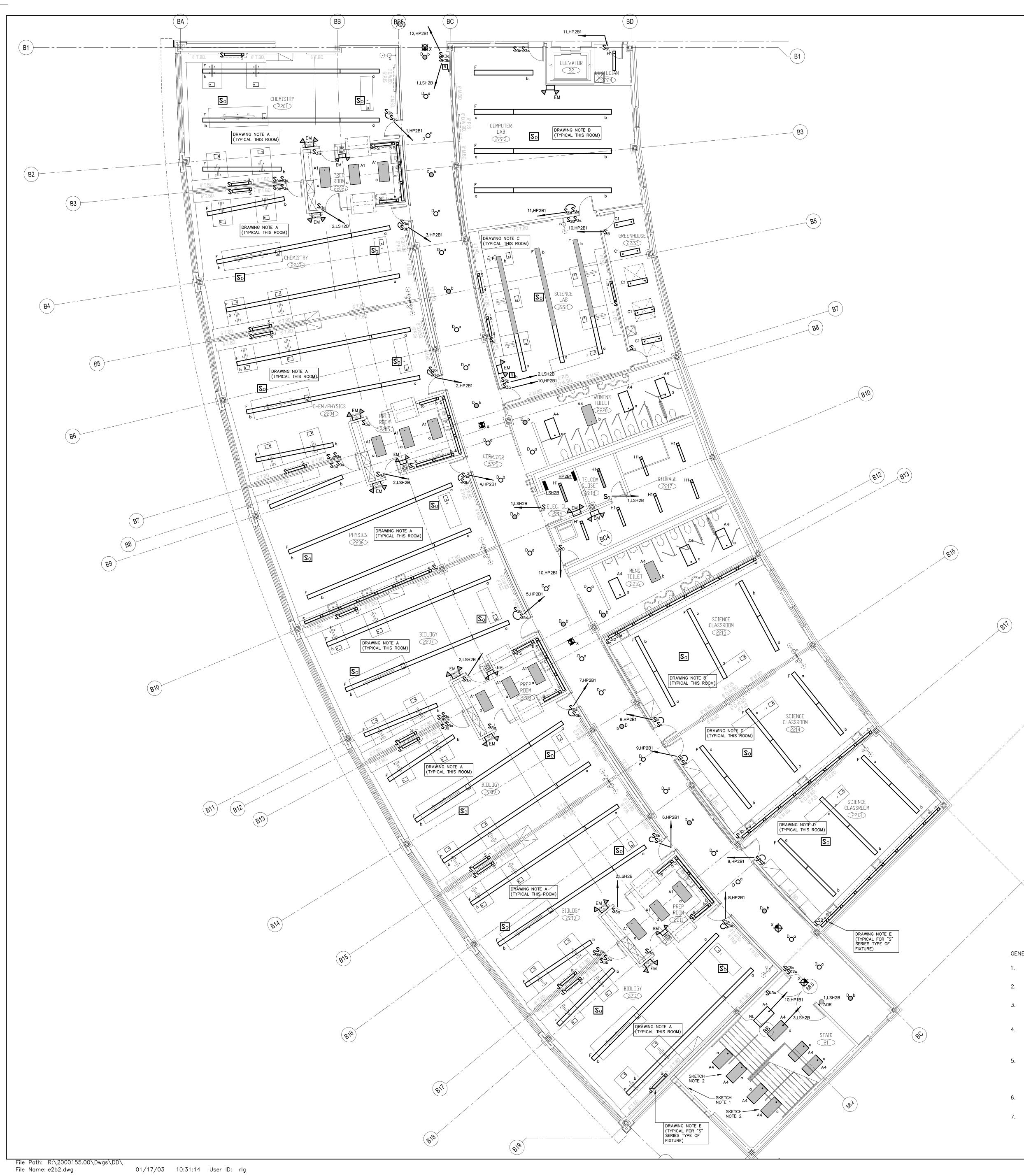
UPPER LEVEL POWER PLAN AREA A

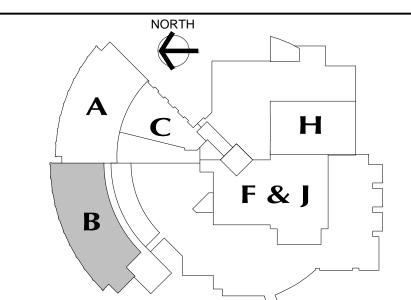
PROJECT NO.: 00048

DRAWING NO.:

DATE: JANUARY 20, 2001

E1.21





REVISIONS

DATE

JUNE 22, 2001

DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

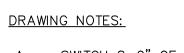


NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT

06248 STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.00



- A. SWITCH 8-0" OF TYPE "F" FIXTURE ON SWITCH "a" AND 28'-0" OF TYPE "F" LIGHT FIXTURE ON SWITCH "b".
- SWITCH 8'-0" OF TYPE "F" FIXTURE ON SWITCH "a" AND 20'-0" OF TYPE "F" LIGHT FIXTURE ON SWITCH "b".
- SWITCH 8'-0" OF TYPE "F" FIXTURE ON SWITCH "a" AND 16'-0" OF TYPE "F" LIGHT FIXTURE ON SWITCH "b".
- SWITCH 8'-0" OF TYPE "F" FIXTURE ON SWITCH "a" AND 8'-0" OF TYPE "F" LIGHT FIXTURE ON SWITCH "b".
- E. CONNECT TYPE "S" SERIES UNDERCABINET LIGHT FIXTURES TO LOCAL 120 VOLT RECEPTACLE CIRCUIT.

GENERAL LIGHTING NOTES:

- REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. REFER TO THE LIGHTING FIXTURE SCHEDULE ON DWG. E4.01 FOR ADDITIONAL INFORMATION ON LIGHT FIXTURES.
- 3. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
- 4. ALL EXIT SIGNS AND AREA OF REFUGE SIGNS SHALL BE WIRED AHEAD OF ANY SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINOUS CHARGING AND AC CIRCUIT MONITORING.
- EMERGENCY LIGHTING FIXTURES, (ANY BATTERY TYPE UNITS), SHALL BE WIRED AHEAD OF SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING AND SUCH THAT FIXTURE ILLUMINATES UPON FAILURE OF NORMAL POWER.
- 6. REFER TO DRAWING #E3.01 AND #E3.02 ELECTRICAL FOR LIGHTING WIRING SCHEMATICS.
- 7. LIGHT FIXTURES NOTED BY THE SUBSCRIPT "NL" (NIGHT LIGHT) SHALL HAVE AT LEAST (2) TWO LAMPS WIRED FOR CONTINUOUS OPERATION.
- SINGLE AREAS OR ROOMS SHOWN WITH (2) SWITCHES ['SS', 'S3,S3,' 'S0,S'] DESIGNATES DUAL LEVEL SWITCHING WITH THE INBOARD LAMPS WIRED TO ONE SWITCH AND THE OUTBOARD LAMPS WIRED TO SECOND SWITCH. THIS OCCURS IN AREAS OR ROOMS WITH LIGHTING FIXTURES CONTAINING TWO BALLASTS. IN ROOMS WHERE EMERGENCY LIGHTING FIXTURES ARE DESIGNATED, ONE SWITCH CONTROLS THE INBOARD LAMPS THRU THE RELAY WIRED THE EMERGENCY BRANCH CIRCUIT; THE OTHER SWITCH CONTROLS THE OUTBOARD LAMPS WIRED ON THE NORMAL POWER BRANCH CIRCUIT.
- CORRIDOR AREAS SHOWN WITH (2) SWITCHES DESIGNATES THE FOLLOWING: ALL LIGHTING FIXTURÉS IN THIS AREA THAT ARE FED FROM NORMAL POWER SHALL BE WIRED TO ONE SWITCH. ALL LIGHTING FIXTURES IN THIS AREA THAT ARE FED FROM EMERGENCY POWER ARE WIRED TO SECOND SWITCH. THESE FIXTURES CONTAIN ONE BALLAST.
- 10. COORDINATE LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC., ADJUST FIXTURE LOCATIONS AS REQUIRED.
- 11. ALL EXTERIOR LIGHTING FIXTURES SHOWN ON FLOOR PLANS SHALL BE WIRED WITH 2#10, 1#10G., 3/4"C TO PANEL DESIGNATED.



ASSOCIATES,INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY: CHECKED BY: SCALE: 1/8" = 1'-0"

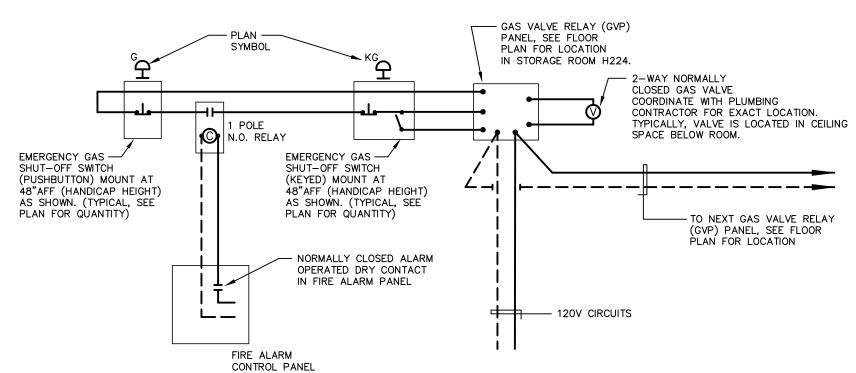
UPPER LEVEL LIGHTING **PLAN** AREA B

PROJECT NO.: 00048

DRAWING NO.:

E1.22 DATE: JANUARY 20, 2001



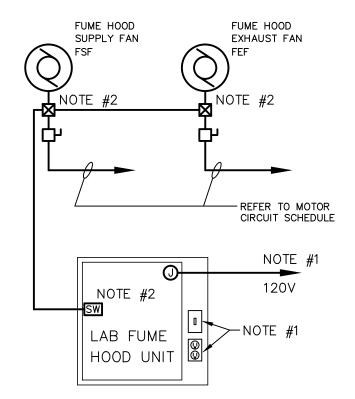


GAS VALVE EMERGENCY SHUT OFF SYSTEM

N.T.S. - TYPICAL FOR (8) ROOMS WITH PROVISIONS FOR GAS.

DETAIL NOTES:

- 1. INCLUDE GROUND WIRE WITH 120V CIRCUIT WIRING.
- 2. 2-WAY NORMALLY CLOSED GAS VALVE FURNISHED AND INSTALLED BY DIV. 15, LOW VOLTAGE CONTROL WIRING BY DIV. 16.
- 3. GAS VALVE RELAY PANEL, EMERGENCY GAS SHUT-OFF SWITCH AND KEYED EMERGENCY GAS SHUT-OFF SWITCH FURNISHED BY DIV. 15, INSTALLED AND ALL WIRING BY DIV. 16.
- 4. CONNECT ALL GAS VALVE CONTROL PANELS TO (1) 120V POWER CIRCUIT IN PANEL
- 5. EMERGENCY GAS SHUT-OFF SWITCH AND KEYED EMERGENCY GAS SHUT-OFF SWITCH SHALL BE CONNECTED TO GAS VALVE RELAY PANEL AND ASSOCIATED GAS VALVE FOR EACH RESPECTIVE AREA. PROVIDE BLACK LAMACOID ENGRAVED LABEL FOR EACH GAS VALVE RELAY PANEL INDICATING ROOM SERVED.
- 6. ON GENERAL ALARM SIGNAL FROM FIRE ALARM CONTROL PANEL THE 1 POLE RELAY SHALL DISRUPT CONTROL CIRCUIT SIMILAR TO PUSHBUTTON STATION, EACH GAS VALVE RELAY PANEL MUST BE RESET AT RESPECTIVE KEYED PUSHBUTTON STATION.



TYPICAL LAB FUME HOOD WIRING DIAGRAM

DETAIL NOTES:

- PROVIDE 20A, 120V CIRCUIT AND FINAL CONNECTIONS TO JUNCTION BOX FURNISHED WITH HOOD, FOR HOOD LIGHT AND RECEPTACLE. (LIGHT FIXTURE AND RECEPTACLE FURNISHED, INSTALLED AND WIRED TO FACTORY JUNCTION BOX BY OTHERS).
- 2. FUME HOOD FAN "SASH SWITCH", SWITCH FURNISHED MOUNTED ON HOOD, FINAL CONNECTIONS FROM SWITCH TO ASSOCIATED FUME HOOD SUPPLY AND EXHAUST FAN MOTOR STARTERS BY ELECTRICAL
- 3. REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.02 FOR FUME HOOD SUPPLY AND EXHAUST FAN MOTOR POWER REQUIREMENTS.

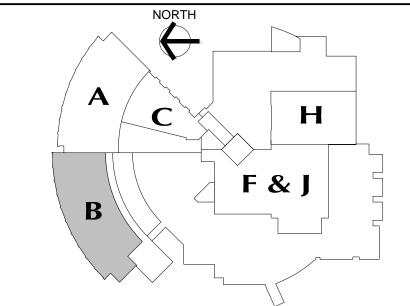
DRAWING NOTES:

JUNCTION BOX FOR ELECTRONIC SENSOR FAUCET, SEE DETAIL ON DRAWING E3.01 FOR ADDITIONAL REQUIREMENTS.

GENERAL POWER NOTES:

PANELBOARD.

- 1. REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND "GENERAL NOTES.
- COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO START OF WORK.
- 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN
- 4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE-LINE RISER DIAGRAM.
- 5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.
- 6. REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER
- 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- 8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS, (T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.



UPPER LEVEL KEY PLAN

REVISIONS DATE

JANUARY 29, 2001

JUNE 22, 2001

REVIEW OF PHASE II FEBRUARY 21, 2001 DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION

AND CONSTRUCTION PURPOSES



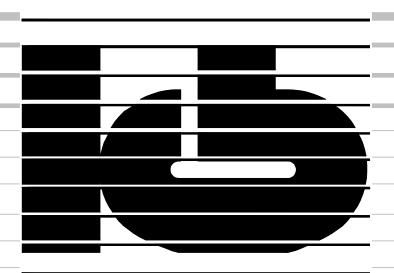
NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT

06248 STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420 TEL (860) 521-4329 FAX (860) 521-5620

vZHS PROJECT NUMBER: 2000155.00



ASSOCIATES,INC. ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 SCALE:

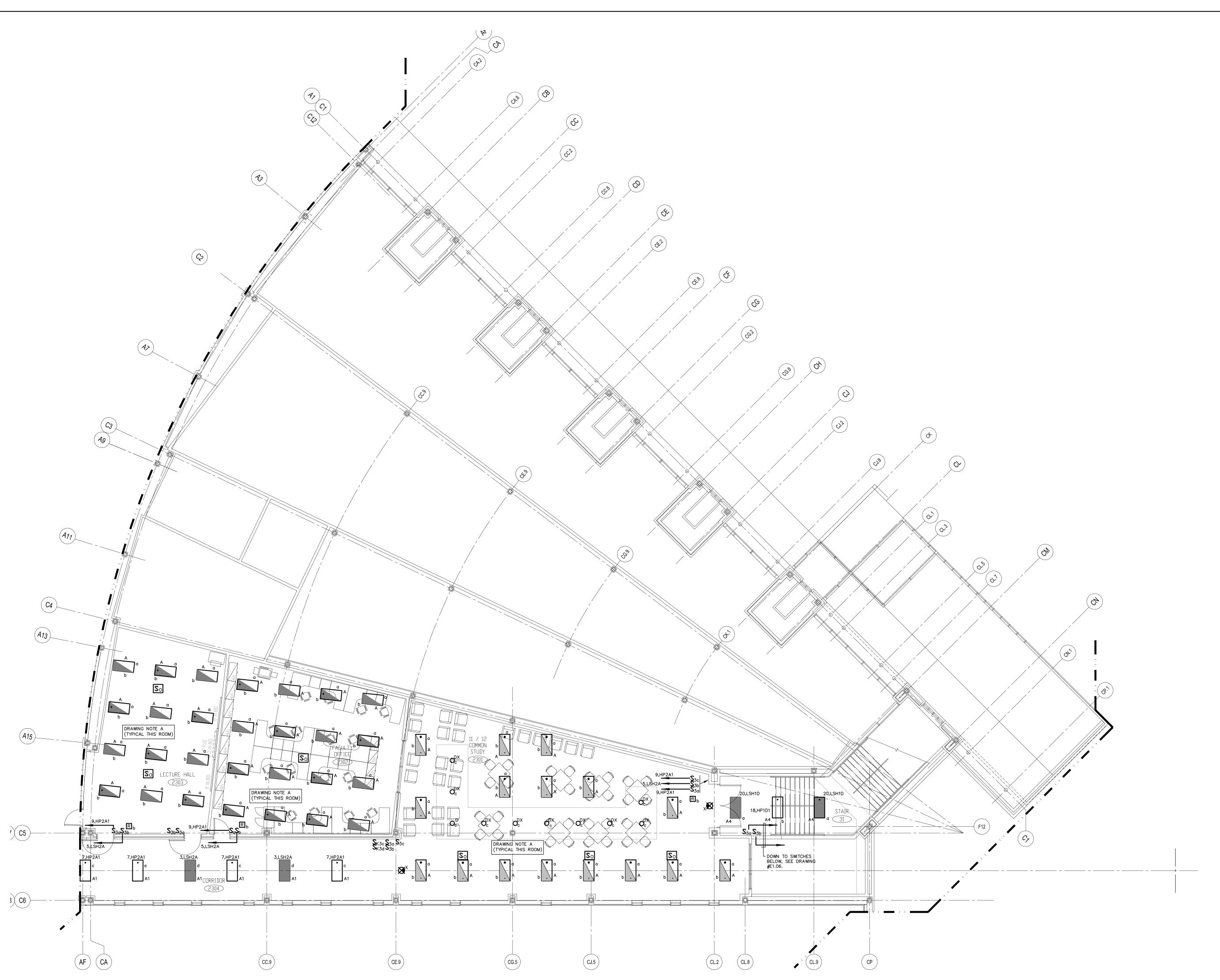
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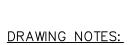
UPPER LEVEL **POWER** PLAN AREA B

PROJECT NO.: 00048 DRAWING NO.:

DATE: JANUARY 20, 2001

E1.23



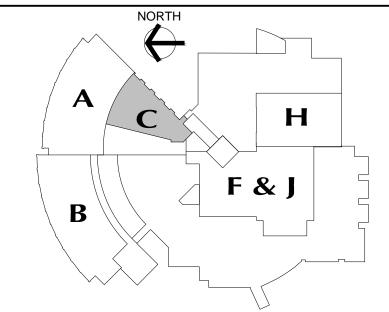


- A. CONNECT (1) LAMP OF EACH TYPE "A" FIXTURE TO SWITCH "b", LIFE SAFETY CIRCUIT.
- B. CONNECT TYPE "S" SERIES UNDERCABINET LIGHT FIXTURES TO LOCAL 120 VOLT RECEPTACLE CIRCUIT.

GENERAL LIGHTING NOTES:

- REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. REFER TO THE LIGHTING FIXTURE SCHEDULE ON DWG. E4.01 FOR ADDITIONAL INFORMATION ON LIGHT FIXTURES.
- 3. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR THE EXACT LOCATION OF ALL LIGHTING
- 4. ALL EXIT SIGNS AND AREA OF REFUGE SIGNS SHALL BE WIRED AHEAD OF ANY SWITCH ON LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, FOR CONTINOUS CHARGING AND AC CIRCUIT MONITORING.
- MONITORING.

 5. EMERGENCY LIGHTING FIXTURES, (ANY BATTERY TYPE UNITS), SHALL BE WIRED AHEAD OF SWITCH ON LINE SIDE OF LOCAL
- LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING AND SUCH THAT FIXTURE ILLUMINATES UPON FAILURE OF NORMAL POWER.
- 6. REFER TO DRAWING #E3.01 AND #E3.02 ELECTRICAL FOR LIGHTING WIRING SCHEMATICS.
- LIGHT FIXTURES NOTED BY THE SUBSCRIPT "NL" (NIGHT LIGHT)
 SHALL HAVE AT LEAST (2) TWO LAMPS WIRED FOR
 CONTINUOUS OPERATION.
- 8. SINGLE AREAS OR ROOMS SHOWN WITH (2) SWITCHES ['SS', 'S3,S3,' 'S0,S'] DESIGNATES DUAL LEVEL SWITCHING WITH THE INBOARD LAMPS WIRED TO ONE SWITCH AND THE OUTBOARD LAMPS WRED TO SECOND SWITCH. THIS OCCURS IN AREAS OR ROOMS WITH LIGHTING FIXTURES CONTAINING TWO BALLASTS. IN ROOMS WHERE EMERGENCY LIGHTING FIXTURES ARE DESIGNATED, ONE SWITCH CONTROLS THE INBOARD LAMPS THRU THE RELAY WIRED THE EMERGENCY BRANCH CIRCUIT; THE OTHER SWITCH CONTROLS THE OUTBOARD LAMPS WIRED ON THE NORMAL POWER BRANCH CIRCUIT.
- CORRIDOR AREAS SHOWN WITH (2) SWITCHES DESIGNATES THE FOLLOWING: ALL LIGHTING FIXTURES IN THIS AREA THAT ARE FED FROM NORMAL POWER SHALL BE WIRED TO ONE SWITCH. ALL LIGHTING FIXTURES IN THIS AREA THAT ARE FED FROM EMERGENCY POWER ARE WIRED TO SECOND SWITCH. THESE FIXTURES CONTAIN ONE BALLAST.
- 10. COORDINATE LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC., ADJUST FIXTURE LOCATIONS AS REQUIRED.
- 11. ALL EXTERIOR LIGHTING FIXTURES SHOWN ON FLOOR PLANS SHALL BE WIRED WITH 2#10, 1#10G., 3/4"C TO PANEL DESIGNATED.



UPPER LEVEL KEY PLAN

REVISIONS TF MARK

JANUARY 29, 2001 FEBRUARY 21, 2001

JUNE 22, 2001

DRAWINGS ISSUED FOR STATE
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REVIEW OF PHASE II
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
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AND CONSTRUCTION PURPOSES



NEW RHAM
HIGH SCHOOL
WALL STREET
HEBRON, CONNECTICUT

06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR



 $\frac{29\ \text{SOUTH MAIN STREET WEST HARTFORD CT }06\ 107\ -24\ 20}{\text{Tel (860) 521-4329 FAX (860) 521-5620}}$ vZHS PROJECT NUMBER: 2000155.00



ASSOCIATES, INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050–2590 (860) 229–0361

DRAWN BY: SCALE: 1/8" = 1'-0"

CHECKED BY:

UPPER LEVEL

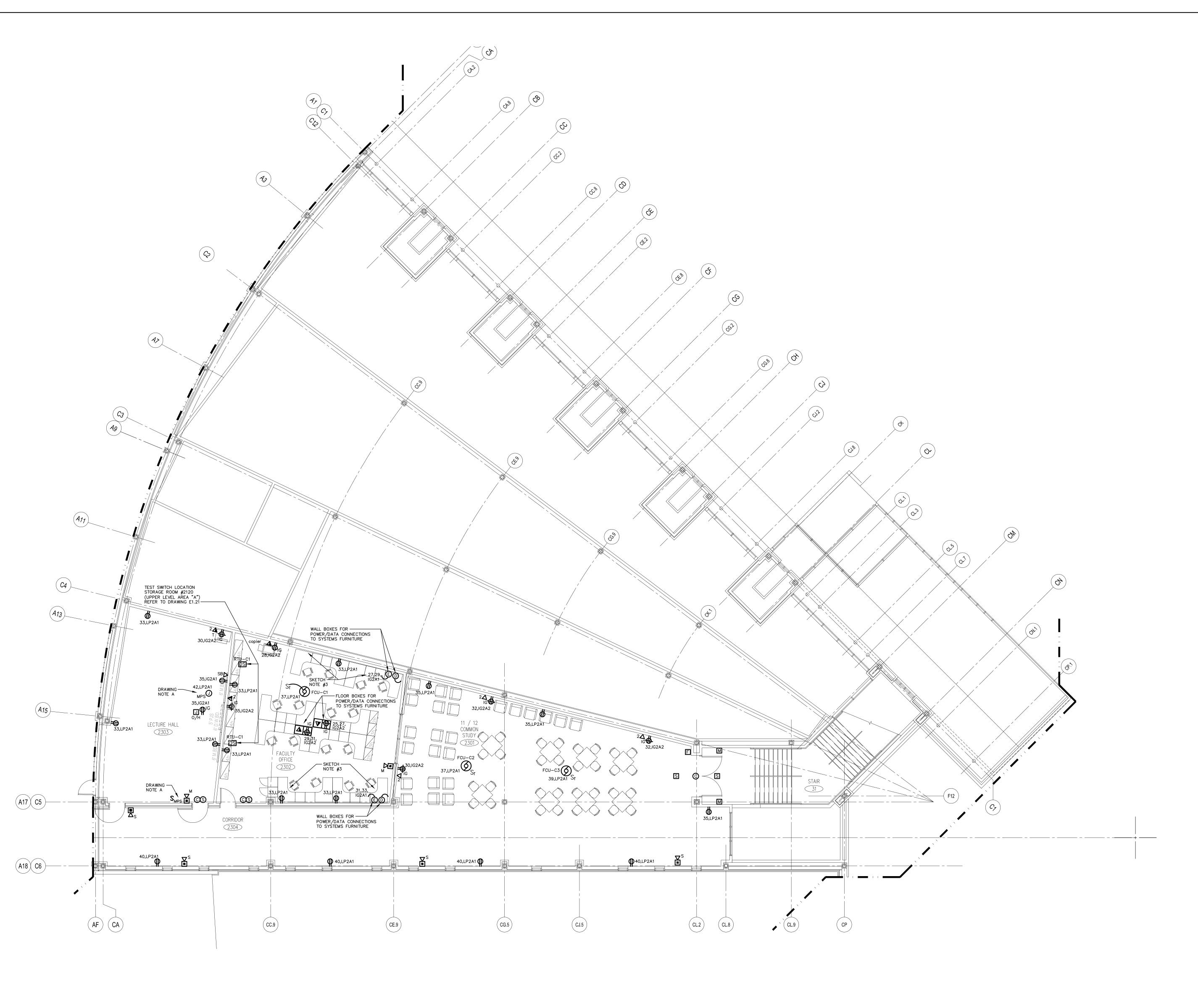
LIGHTING
PLAN
AREA C

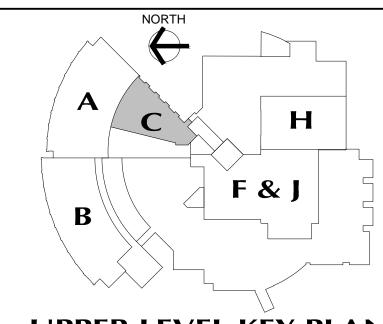
PROJECT NO.: 00048

DATE: JANUARY 20, 2001

E1.24

DRAWING NO.:





REVISIONS

AND CONSTRUCTION PURPOSES

JANUARY 29, 2001

DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE FEBRUARY 21, 2001 DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING JUNE 22, 2001



NEW RHAM HIGH SCHOOL

WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620

vZHS PROJECT NUMBER: 2000155.00

ASSOCIATES,INC. ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY: CHECKED BY:

DRAWING NO.:

SCALE: 1/8" = 1'-0"

UPPER LEVEL POWER PLAN AREA C

PROJECT NO.: 00048

E1.25 DATE: JANUARY 20, 2001

DRAWING NOTES :

A. MOTORIZED PROJECTION SCREEN UNIT FURNISHED AND INSTALLED BY OTHERS, FINAL ELECTRICAL CONNECTIONS BY ELECTRICAL CONTRACTOR.

MOTORIZED PROJECTION SCREEN RAISE/LOWER SWITCH UNIT FURNISHED
WITH SCREEN BY OTHERS, INSTALLED AND WIRED BY ELECTRICAL
CONTRACTOR PER MANUFACTURER'S SHOP DRAWINGS. VERIFY EXACT
LOCATION OF SCREEN AND CONTROL SWITCH PRIOR TO INSTALLATION.

GENERAL POWER NOTES:

- REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO START OF WORK.
- 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN PANELBOARÓ.
- 4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE-LINE RISER DIAGRAM.
- 5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM. 6. REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER
- 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON

DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING,

BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS,

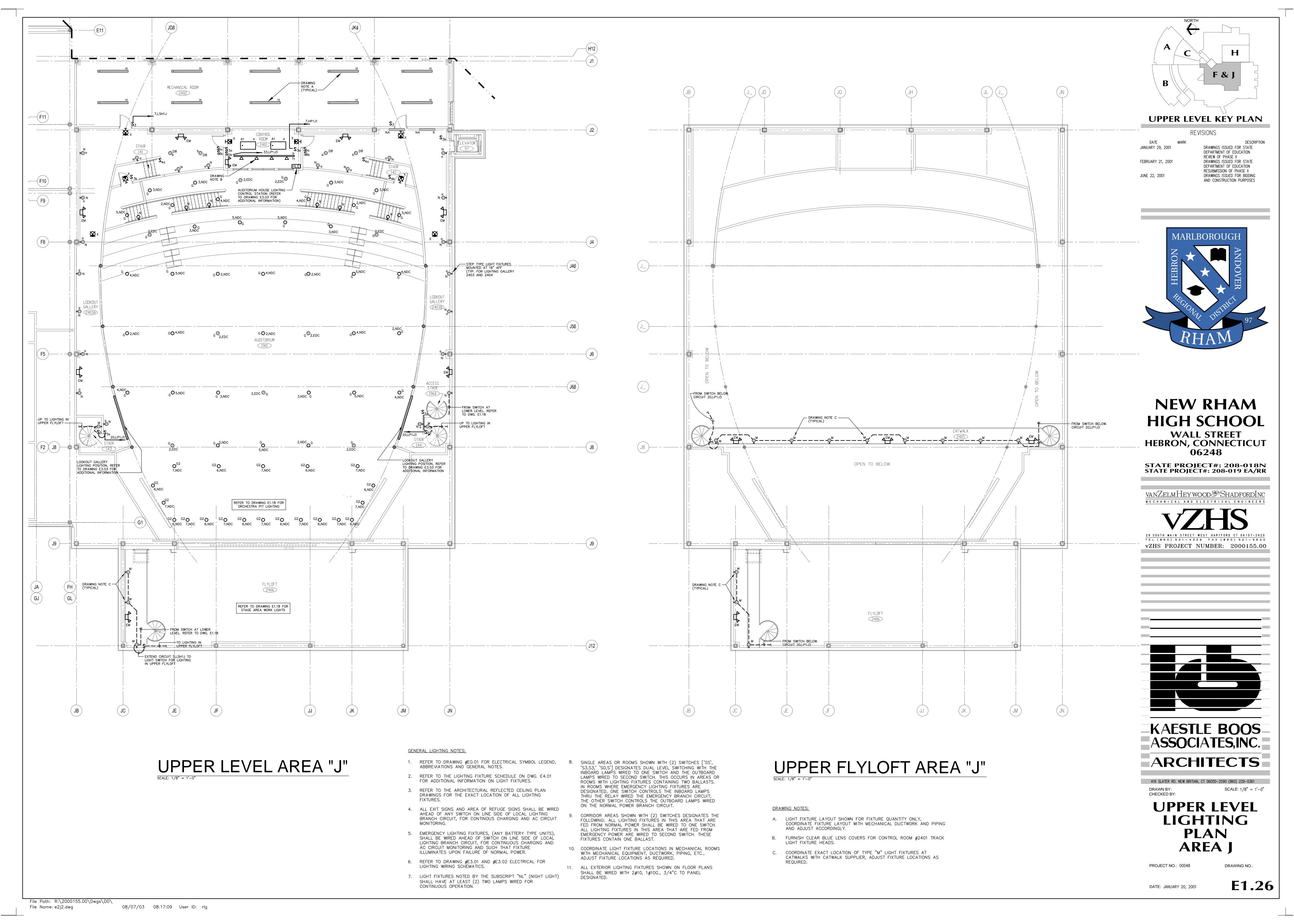
FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT. 8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION

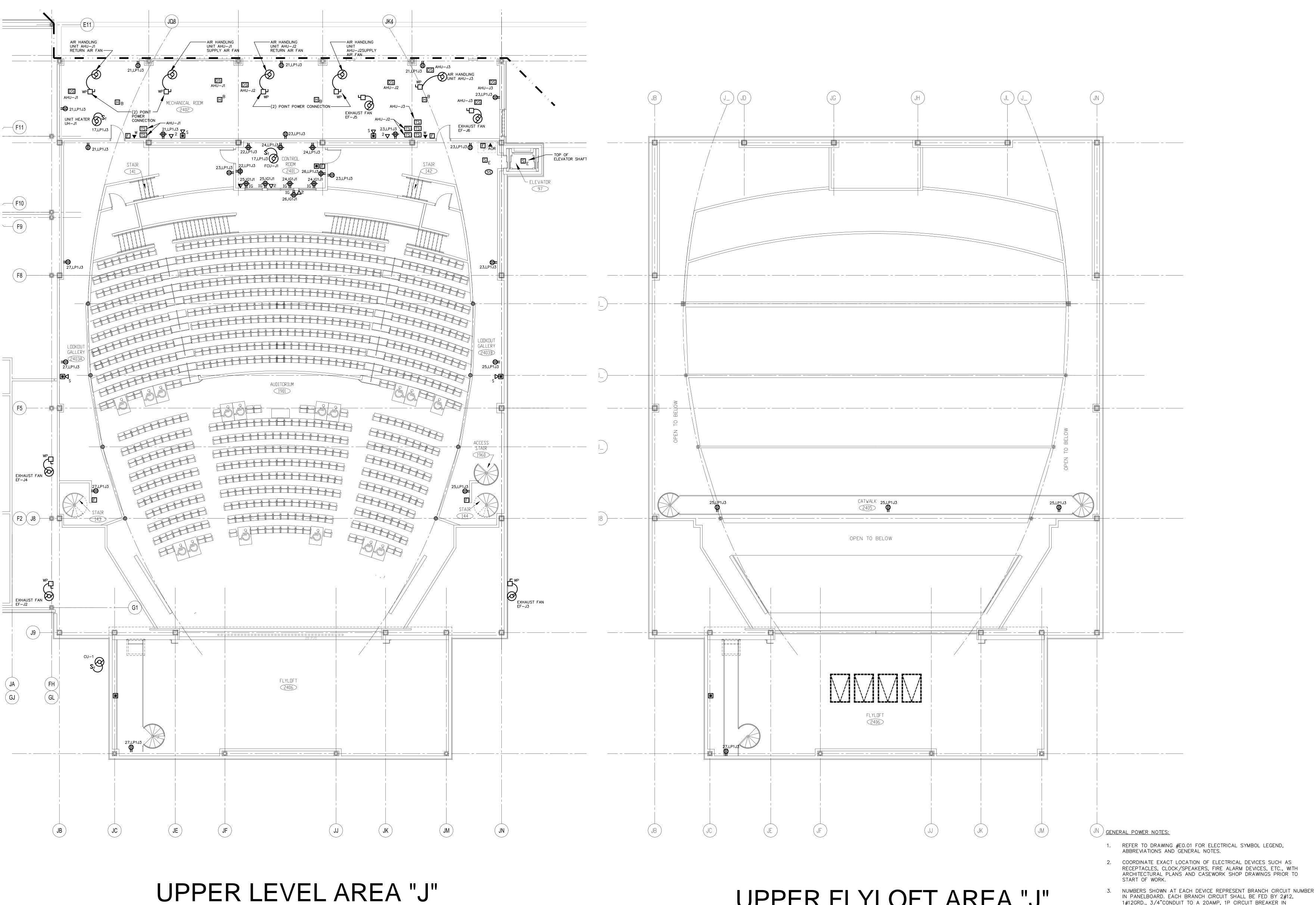
(T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.

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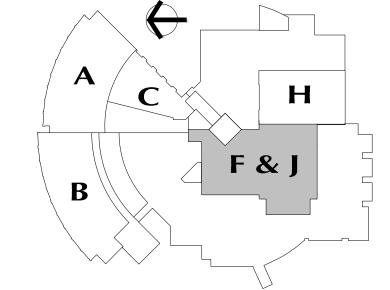
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UPPER FLYLOFT AREA "J"



UPPER LEVEL KEY PLAN

REVISIONS

REVIEW OF PHASE II RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING



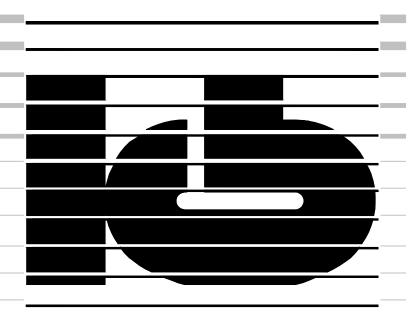
NEW RHAM HIGH SCHOOL **WALL STREET**

HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING

vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

DRAWN BY: CHECKED BY:

REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE-LINE

5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.

REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER

7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON

8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION

(T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.

DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR

BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS,

RISER DIAGRAM.

EXACT LOCATION OF EQUIPMENT.

DIAGRAM.

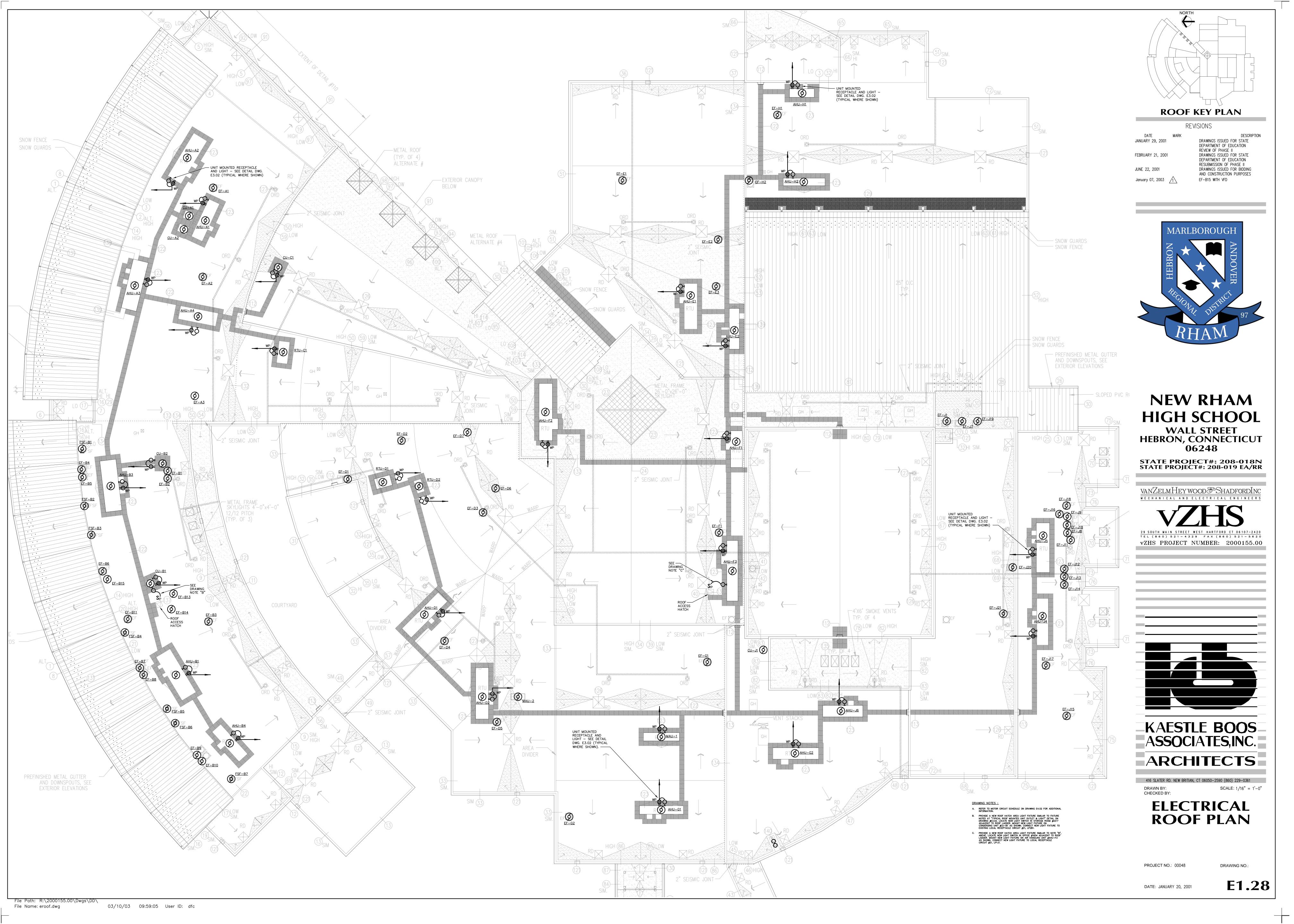
416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 SCALE: 1/8" = 1'-0"

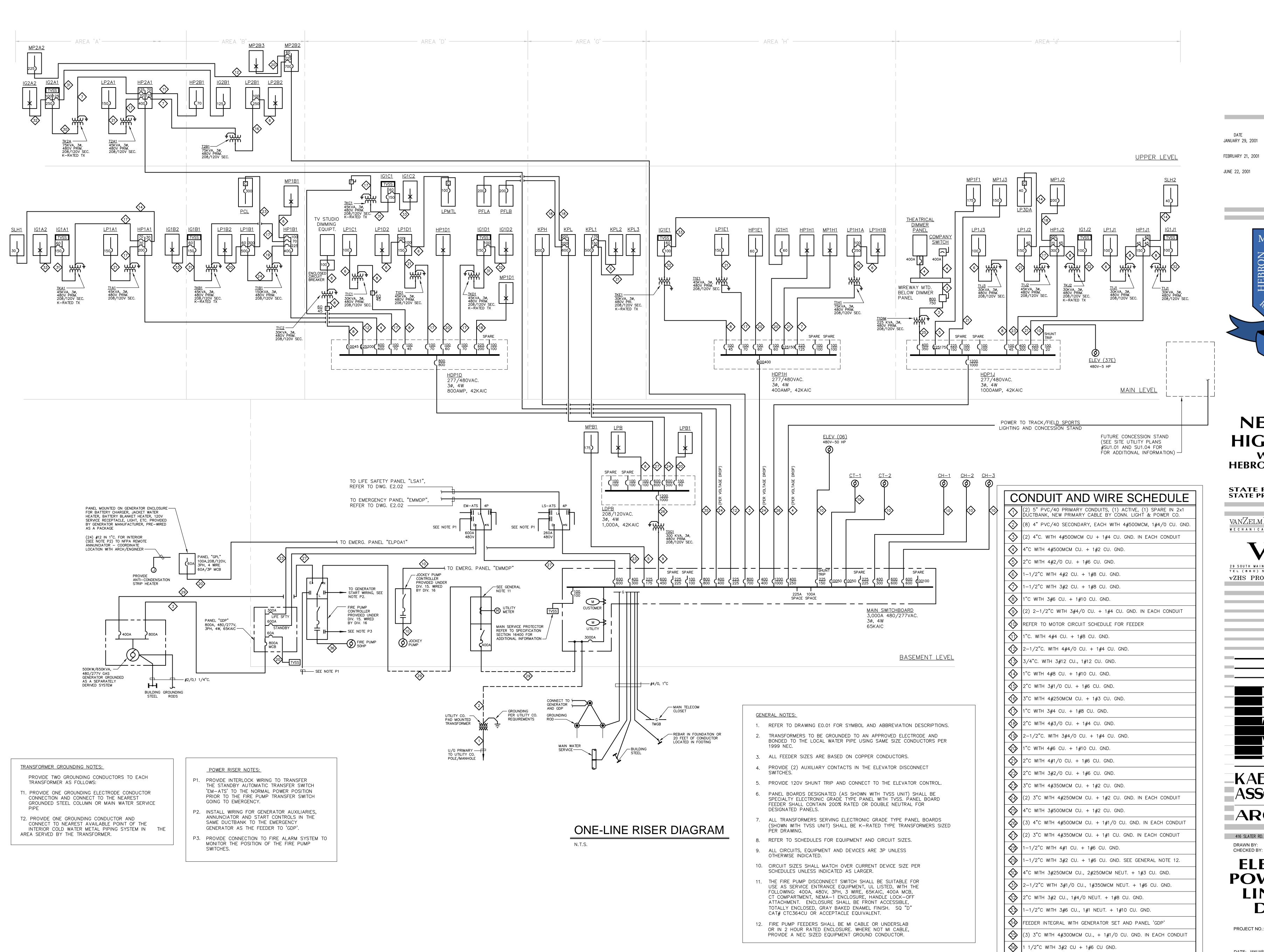
UPPER LEVEL POWER PLAN **AREA J**

DRAWING NO.:

DATE: JANUARY 20, 2001

File Path: R:\2000155.00\dwgs\dd\ 07/16/01 14:40:36 User ID: AWS File Name: e2j3.dwg





REVISIONS

DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING

AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL WALL STREET

HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

vanZelmHeywood&ShadfordInc

IECHANICAL AND ELECTRICAL ENGINEER

vZHS PROJECT NUMBER: 2000155.00

KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 SCALE: NONE

ELECTRICAL

POWER ONE-LINE RISER DIAGRAM

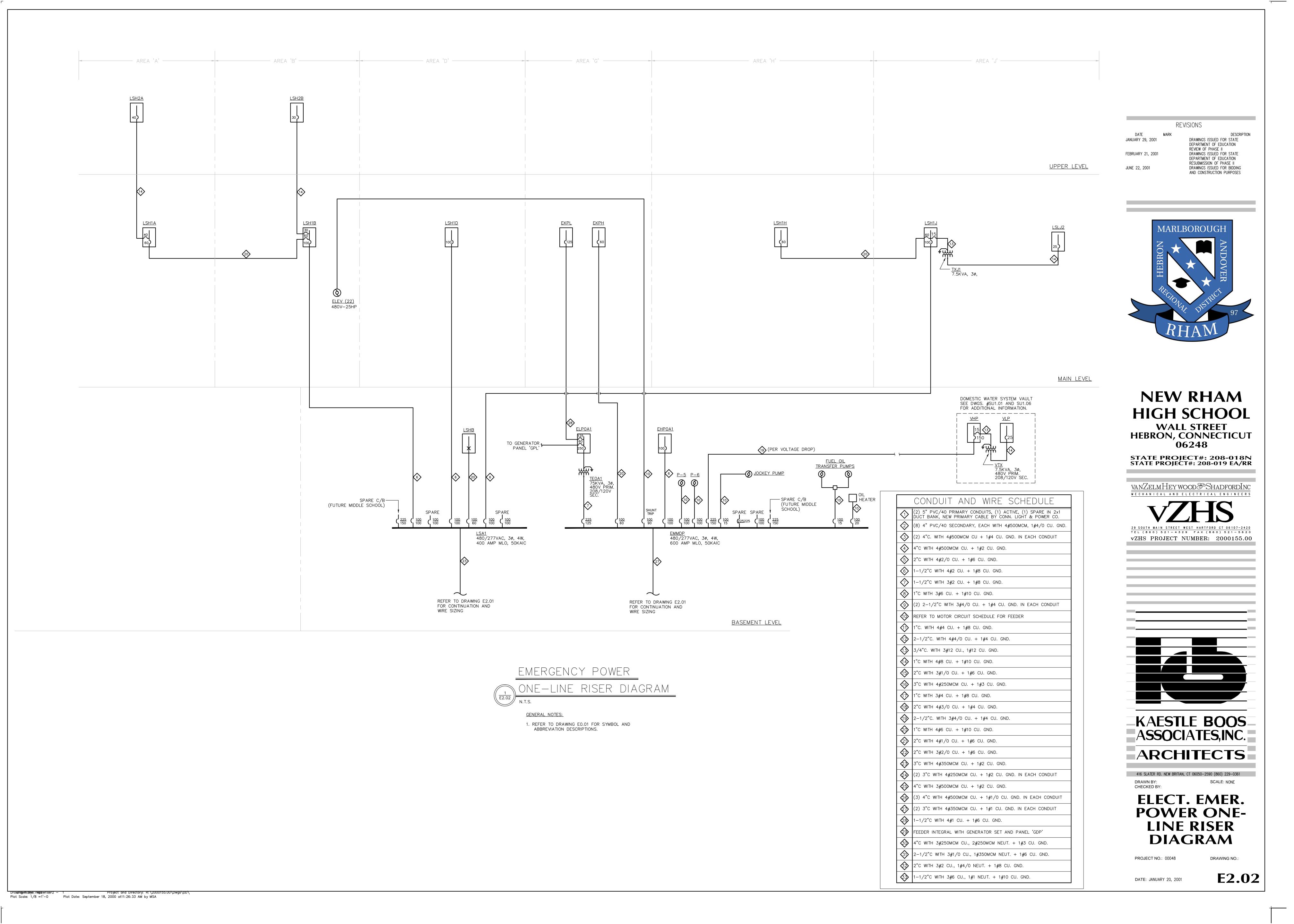
PROJECT NO.: 00048

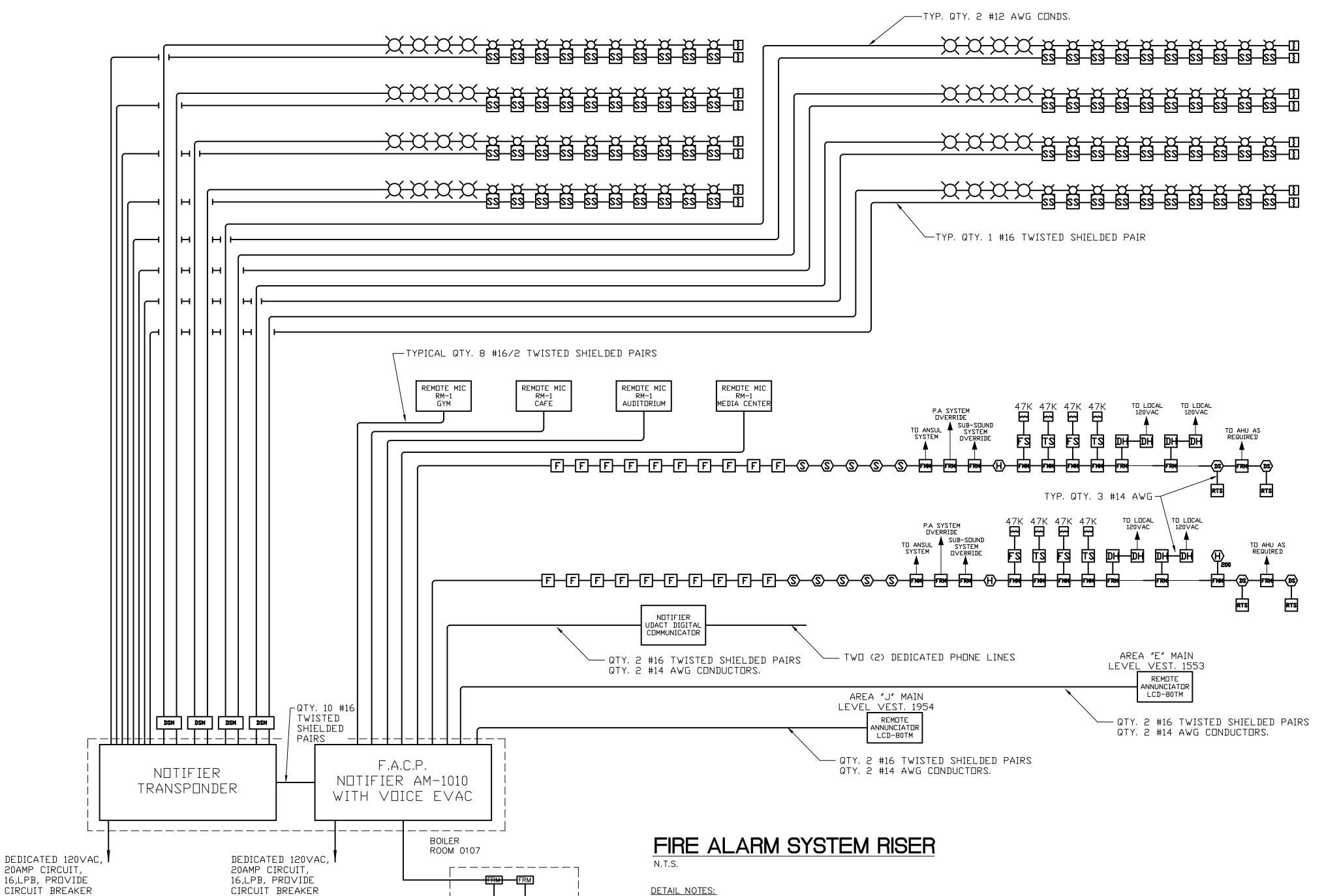
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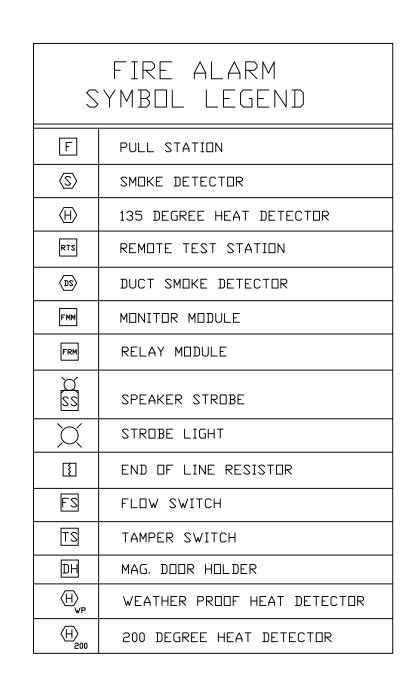
E2.01

DATE: JANUARY 20, 2001

File Path: R:\2000155.00\Dwgs\DD\ File Name: epowriser1.dwg 01/17/03 08:17:58 User ID: rlg







DETAIL NOTES:

TO TANK CONTROL PANEL CP-1

STORE REMOTE RECEIVERS IN CHARGER CASE

RR

REMOTE RECEIVERS

WALL MOUNTED DIPOLE ANTENNA #AB-2

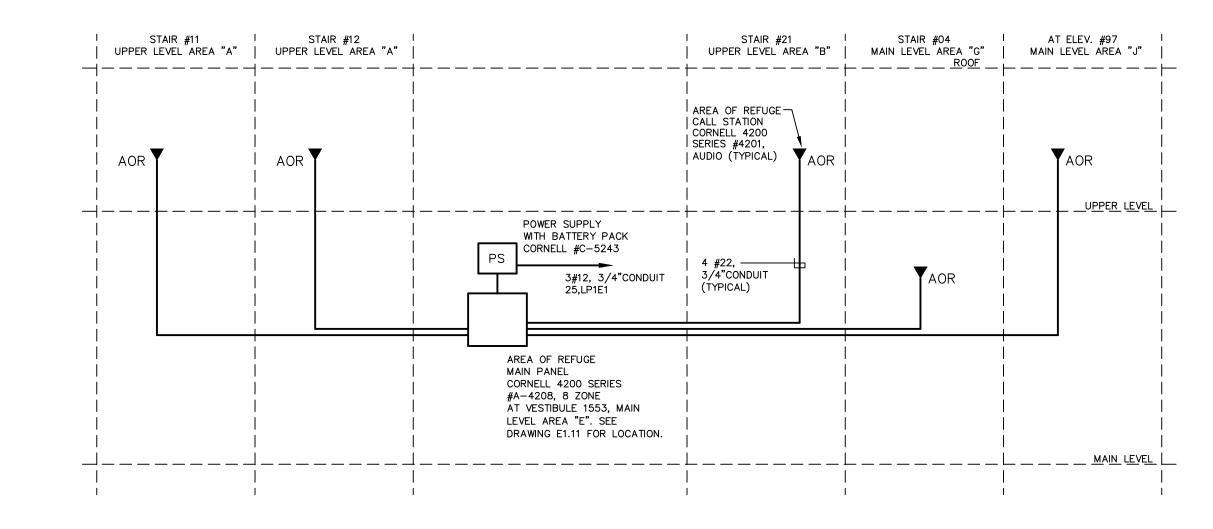
CONTROL PANEL CP-1

DOMESTIC WATER

CHARGER CASE

12 RECEIVERS PER CASE

- 1. REFER TO FIRE PROTECTION DRAWINGS FOR QUANTITY OF SPRINKLER SYSTEM DEVICES, FLOW/TAMPER SWITCHES, ETC. TO BE CONNECTED TO THE FIRE ALARM SYSTEM.
- 2. REFER TO SPECIFICATION 16720 FOR ADDITIONAL REQUIREMENTS.
- 3. QUANTITY OF DEVICES SHALL BE AS INDICATED ON DRAWINGS.
- 4. FIRE ALARM CONTROL PANEL MUST BE GROUNDED TO COLD WATER SERVICE PIPE OR DRIVEN GROUND ROD.



ASSISTIVE LISTENING SYSTEM WIRING DIAGRAM

SOUND SYSTEM

TRANSMITTER

AAT-2N-XXX

DETAIL NOTES:

POWER SUPPLY

LOCK

- 1. EQUIPMENT AS MANUFACTURED BY TELEX EQUIPMENT OR EQUAL.
- 2. PROVIDE SYSTEM AS FOLLOWS: A. AUDITORIUM

LOCK

CABLE SUPPLIED WITH DIPOLE ANTENNA

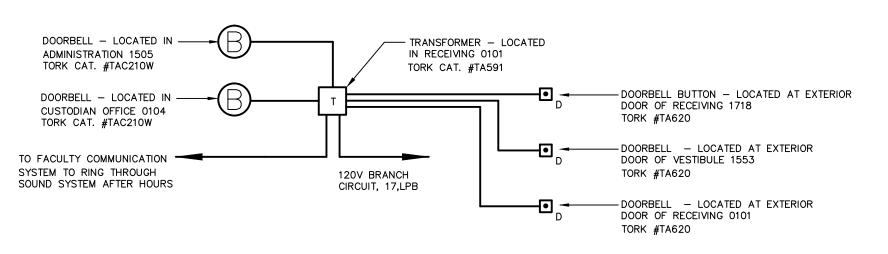
CONNECT TO SOUND SYSTEM OUTPUT —

- 3. MOUNT AUDITORIUM TRANSMITTER AND RECEIVER IN FREE STANDING CABINET IN AUDITORIUM.
- 4. COORDINATE LOCATION OF DIPOLE ANTENNA WITH ARCHITECT. LOCATE IN AUDIENCE AREA.
- 5. REFER TO SPECIFICATION 16600, "SPECIAL SYSTEMS" FOR ADDITIONAL INFORMATION.

AREA OF REFUGE TELEPHONE SYSTEM RISER

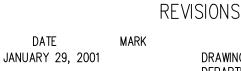
DETAIL NOTES:

- 1. ALL CATALOG NUMBERS ARE BASED ON CORNELL COMMUNICATIONS INC. EQUIPMENT.
- 2. REFER TO SPECIFICATION SECTION 16600, "SPECIAL SYSTEMS", FOR ADDITIONAL INFORMATION
- 3. SYSTEM SHALL PROVIDE TWO-WAY VOICE AND VISUAL INDICATION COMMUNICATION IN OPERATIONAL MODE.



DOORBELL WIRING SCHEMATIC DIAGRAM

GENERAL NOTES: A. REFER TO DRAWING E0.01 FOR SYMBOLS, ABBREVIATIONS, AND NOTES.



FEBRUARY 21, 2001

JUNE 22, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL WALL STREET

HEBRON, CONNECTICUT 06248

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS

STATE PROJECT#: 208-018N

STATE PROJECT#: 208-019 EA/RR

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420 TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

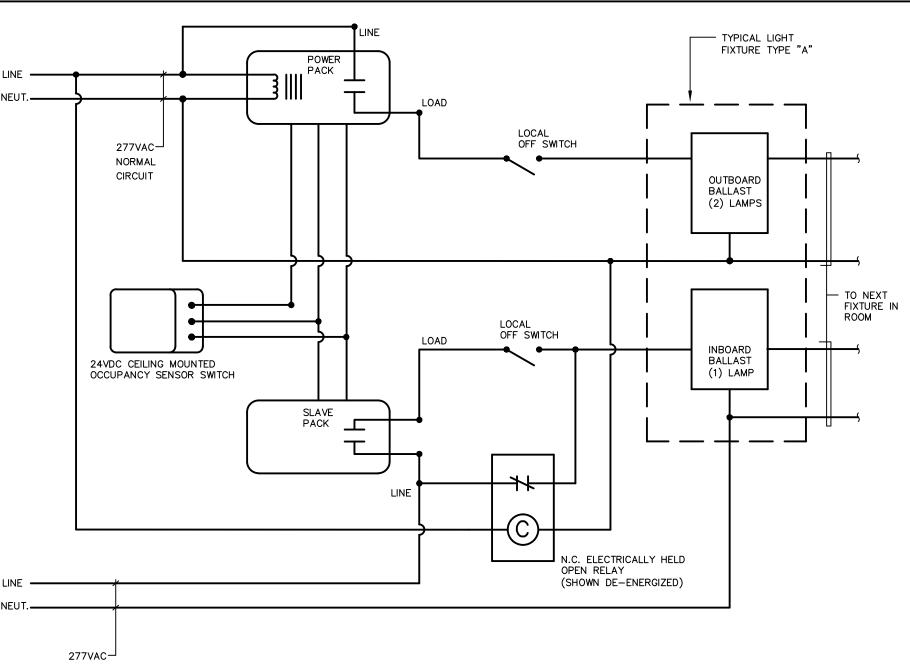
416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY: CHECKED BY:

ELECTRICAL SPECIAL SYSTEMS RISER DIAGRAMS

PROJECT NO.: 00048

DRAWING NO.:

E2.03 DATE: JANUARY 20, 2001

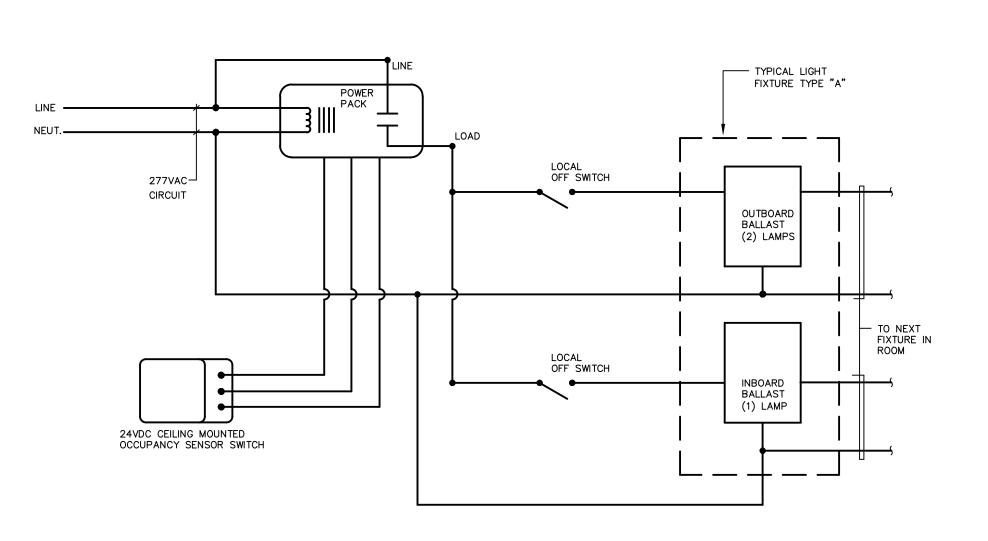


TYPICAL LIGHTING CONTROL WIRING DIAGRAM FOR AREAS WITH DUAL LIGHT LEVELS AND EMERGENCY LIGHTING

DETAIL NOTES:

N.T.S.

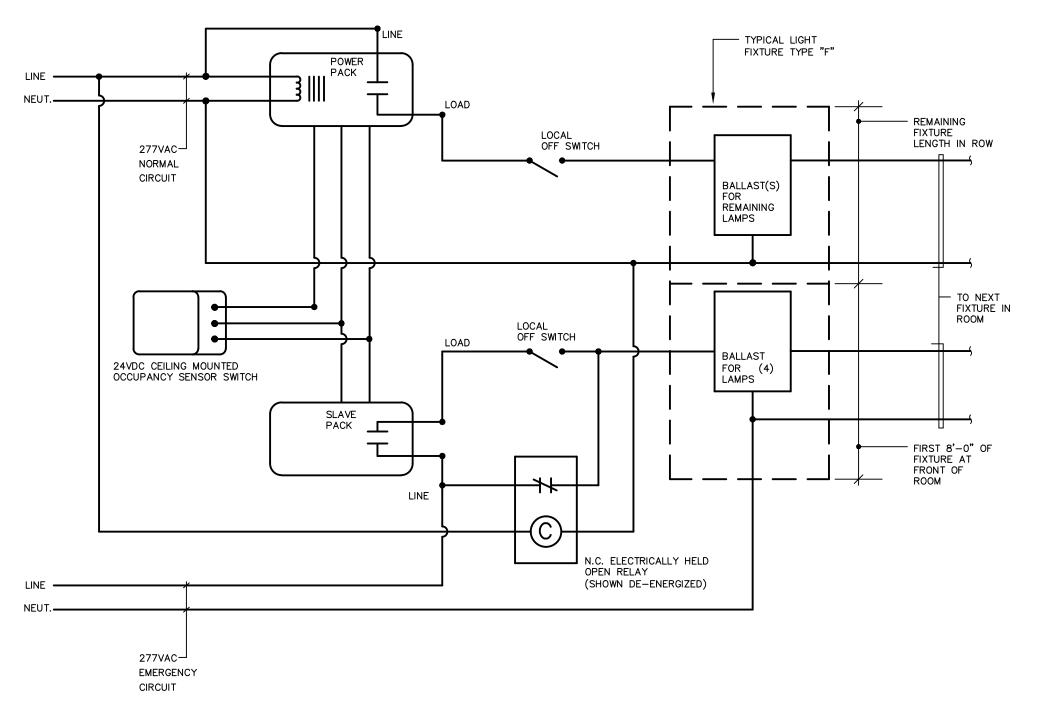
- 1. DETAIL IS TYPICAL AREAS WHERE LIGHTING CONSISTS OF RECESSED, GRID MOUNTED, 2' x 4' PARABOLIC TROFFER LIGHT FIXTURES EACH WITH (3) LAMPS. OPERATION OF LIGHTING SHALL BE AS FOLLOWS:
- A. ALL FIXTURES WITHIN ROOM ARE CONTROLLED BY THE ROOM OCCUPANCY SENSOR SWITCH. ON ENTERING THE ROOM ALL THE LAMPS IN ALL THE FIXTURES SHALL TURN ON.
- B. THE LIGHT LEVEL CAN BE MANUALLY ADJUSTED BY USING EITHER OF (2) WALL SWITCHES TO TURN OFF THE CENTER OR OUTBOARD LAMPS OF EACH FIXTURE. IF THE WALL SWITCHES ARE LEFT IN THE OFF POSITION THE LIGHTS WILL NOT AUTOMATICALLY TURN ON FROM THE SENSOR SWITCH UPON RE-ENTRY TO ROOM, BUT CAN BE MANUALLY OPERATED.
- C. IN ADDITION, PROVIDE A 20AMP SPDT RELAY AT EMERGENCY CIRCUIT TO BYPASS WALL SWITCH AND TURN ON EMERGENCY LAMPS REGARDLESS OF SWITCH POSITION ON LOSS OF NORMAL POWER TO ROOM.
- D. AFTER THE SENSOR SWITCH HAS DETECTED NO ACTIVITY WITHIN THE ROOM FOR AN APPROPRIATE TIME PERIOD, ALL THE LAMPS IN ALL THE FIXTURES SHALL TURN OFF.
- E. DIAGRAM IS BASED ON WATTSTOPPER EQUIPMENT, COORDINATE FINAL WIRING REQUIREMENTS WITH APPROVED SUBMITTALS.
- F. DETAIL SIMILAR FOR ALL ROOMS WITH TWO LEVEL SWITCHING, OCCUPANCY SENSORS, AND EMERGENCY POWER WHERE INDICATED ON FLOOR PLANS.



TYPICAL LIGHTING CONTROL WIRING DIAGRAM FOR AREAS WITH DUAL LIGHT LEVELS

DETAIL NOTES:

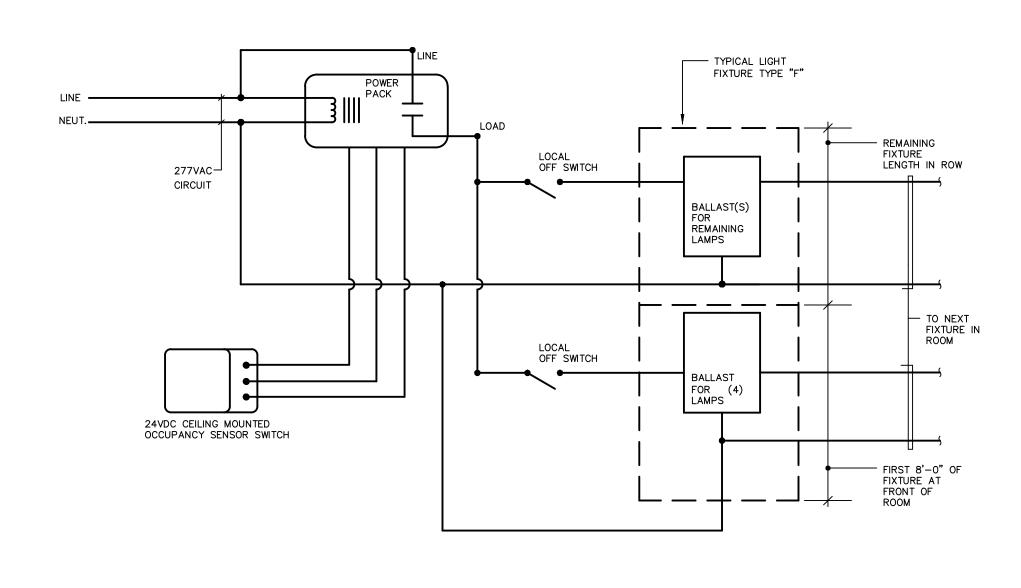
- 1. DETAIL IS TYPICAL AREAS WHERE LIGHTING CONSISTS OF RECESSED, GRID MOUNTED, 2' x 4' PARABOLIC TROFFER LIGHT FIXTURES EACH WITH (3) LAMPS. OPERATION OF LIGHTING SHALL BE AS FOLLOWS: FOLLOWS:
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- D. DIAGRAM IS BASED ON WATTSTOPPER EQUIPMENT, COORDINATE FINAL WIRING REQUIREMENTS WITH APPROVED SUBMITTALS.
- E. DETAIL SIMILAR FOR ROOMS WITH TWO LEVEL SWITCHING AND OCCUPANCY SENSORS WHERE INDICATED ON FLOOR PLANS.



TYPICAL LIGHTING CONTROL WIRING DIAGRAM FOR CLASSROOMS WITH EMERGENCY LIGHTING

DETAIL NOTES:

- 1. TYPICAL CLASSROOM LIGHTING CONSISTS OF (3) ROWS OF PENDANT MOUNTED, DIRECT/INDIRECT LIGHT FIXTURES EACH WITH (2) LAMPS PER 4'-0" SECTION. OPERATION OF CLASSROOM LIGHTING SHALL BE AS FOLLOWS:
- A. ALL FIXTURES WITHIN ROOM ARE CONTROLLED BY THE ROOM OCCUPANCY SENSOR SWITCH. ON ENTERING THE ROOM ALL THE LAMPS IN ALL THE FIXTURES SHALL TURN ON.
- B. THE LIGHT LEVEL CAN BE MANUALLY ADJUSTED BY USING EITHER OF (2) WALL SWITCHES TO TURN OFF THE LAMPS OF THE FIRST 8'-0" OF EACH FIXTURE LENGTH AT FRONT OF ROOM OR THE REMAINING LENGTH OF FIXTURE(S). IF THE WALL SWITCHES ARE LEFT IN THE OFF POSITION THE LIGHTS WILL NOT AUTOMATICALLY TURN ON FROM THE SENSOR SWITCH UPON RE-ENTRY TO ROOM, BUT CAN BE MANUALLY OPERATED.
- C. IN ADDITION, PROVIDE A 20AMP SPDT RELAY AT EMERGENCY CIRCUIT TO BYPASS WALL SWITCH AND OCCUPANCY SENSOR SLAVE PACK UNIT AND TURN ON EMERGENCY LAMPS REGARDLESS OF SWITCH POSITION ON LOSS OF NORMAL POWER TO ROOM.
- D. AFTER THE SENSOR SWITCH HAS DETECTED NO ACTIVITY WITHIN THE ROOM FOR AN APPROPRIATE TIME PERIOD, ALL THE LAMPS IN ALL THE FIXTURES SHALL TURN OFF.
- E. DIAGRAM IS BASED ON WATTSTOPPER EQUIPMENT, COORDINATE FINAL WIRING REQUIREMENTS WITH APPROVED SUBMITTALS.
- F. DETAIL SIMILAR FOR ROOMS WITH TWO LEVEL SWITCHING, OCCUPANCY SENSORS, AND EMERGENCY POWER WHERE INDICATED ON FLOOR PLANS.
- G. FRONT OF ROOM LIGHTS MAY NOT ALWAYS BE THE PORTION ON EMERGENCY POWER, REFER TO FLOOR PLANS FOR ROW CONFIGURATION AND EMERGENCY SECTION LENGTH.



TYPICAL LIGHTING CONTROL WIRING DIAGRAM FOR CLASSROOMS

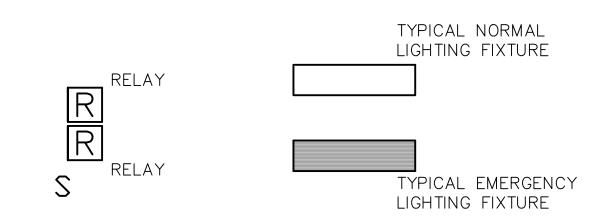
N.T.S.

DETAIL NOTES:

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- C. AFTER THE SENSOR SWITCH HAS DETECTED NO ACTIVITY WITHIN THE ROOM FOR AN APPROPRIATE TIME PERIOD, ALL THE LAMPS IN ALL THE FIXTURES SHALL TURN OFF.
- D. DIAGRAM IS BASED ON WATTSTOPPER EQUIPMENT, COORDINATE FINAL WIRING REQUIREMENTS WITH APPROVED SUBMITTALS.
- E. DETAIL SIMILAR FOR ROOMS WITH TWO LEVEL SWITCHING AND OCCUPANCY SENSORS WHERE INDICATED ON FLOOR PLANS.

-- NORMAL CIRCUIT NORMAL FIXTURE ----|----SINGLE POLE NORMALLY--SINGLE POLE NORMALLY CLOSED ELECTRICALLY OPEN ELECTRICALLY HELD CLOSED RELAY IN HELD OPEN RELAY IN ENCLOSURE ENCLOSURE EMERGENCY ____ FIXTURE - EMERGENCY CIRCUIT

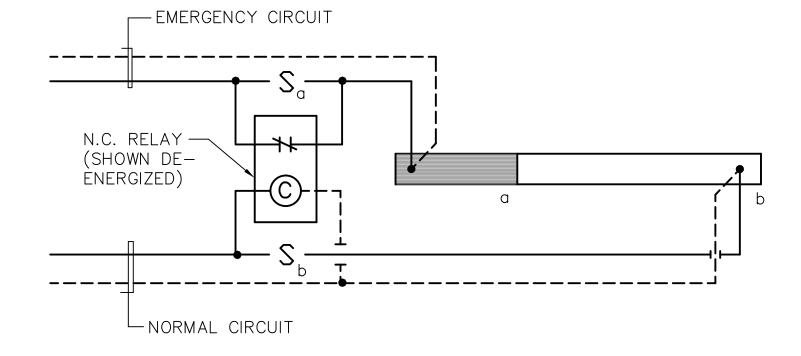
SCHEMATIC WIRING



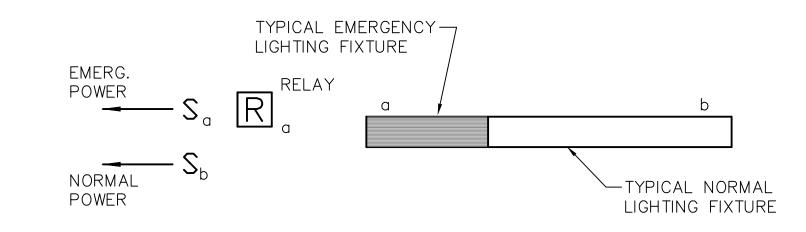
AS SHOWN ON LIGHTING DRAWINGS

EMERGENCY LIGHTING SINGLE RELAY WIRING DIAGRAM

N.T.S.

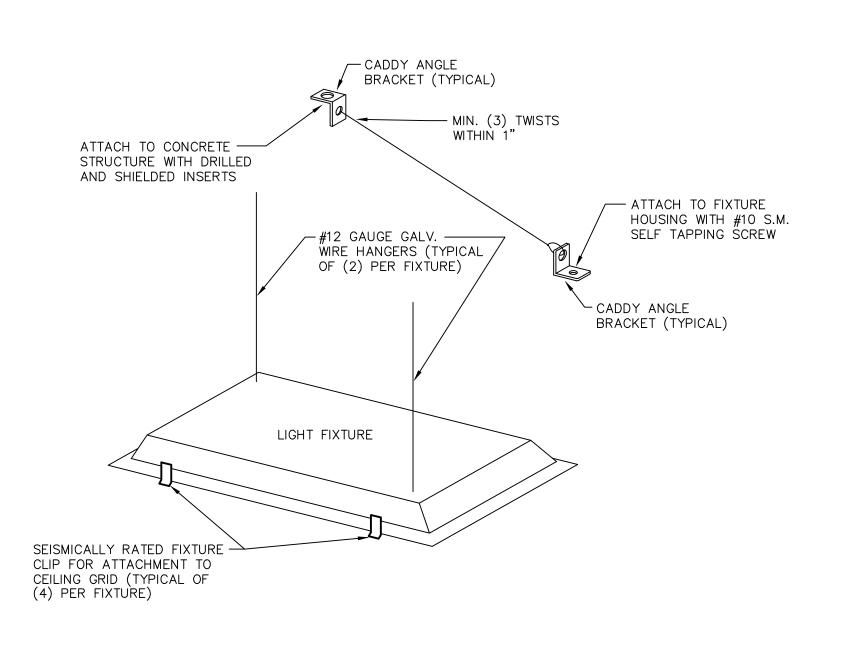


SCHEMATIC WIRING



AS SHOWN ON LIGHTING DRAWINGS

EMERGENCY LIGHTING SINGLE RELAY WIRING DIAGRAM



TYPICAL 2'x2' AND 2'x4' LIGHT FIXTURE MOUNTING DETAIL

REVISIONS TE MARK

JANUARY 29, 2001

FEBRUARY 21, 2001

JUNE 22, 2001

DESCRIPTI
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
REVIEW OF PHASE II
DRAWINGS ISSUED FOR STATE
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RESUBMISSION OF PHASE II
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NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDINC
MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620

vZHS PROJECT NUMBER: 2000155.00



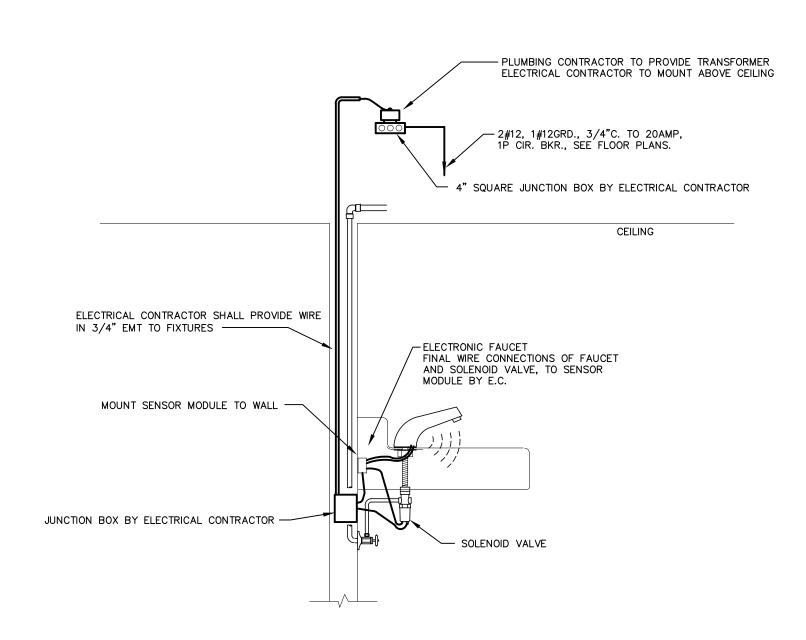
ELECTRICAL DETAILS

PROJECT NO.: 00048

DRAWING NO.:

DATE: JANUARY 20, 2001

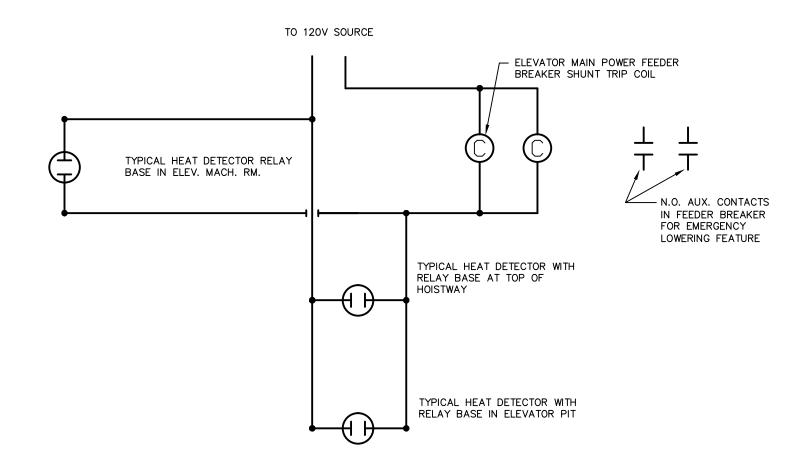
E3.01



TYPICAL ELECTRONIC FAUCET WIRING DETAIL

N.T.S.

DETAIL NOTES: 1. FAUCET SHALL BE WIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, COORDINATE REQUIREMENTS WITH PLUMBING CONTRACTOR.

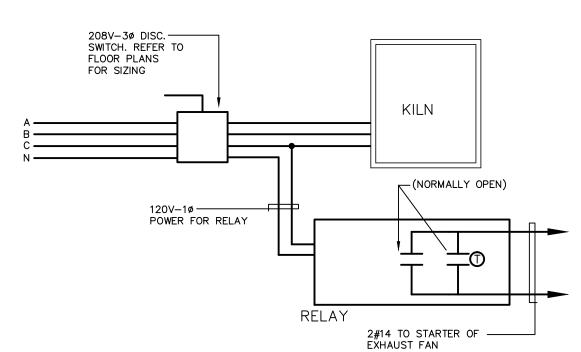


DETAIL NOTES:

1. RELAY BASE AUXILARY CONTACTS ARE WIRED IN PARALLEL SO THAT ANY (1) INITIATING DEVICE WILL ACTIVATE SHUNT TRIP.

2. REFER TO SPECIFICATION SECTION 16600 FOR ADDITIONAL INFORMATION.

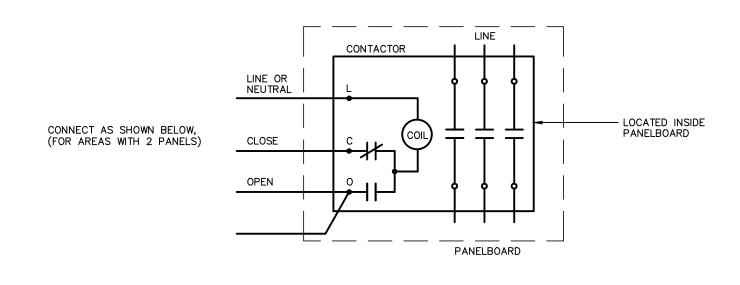
ELEVATOR MAIN POWER FEEDER EMERGENCY DISCONNECT WIRING DIAGRAM

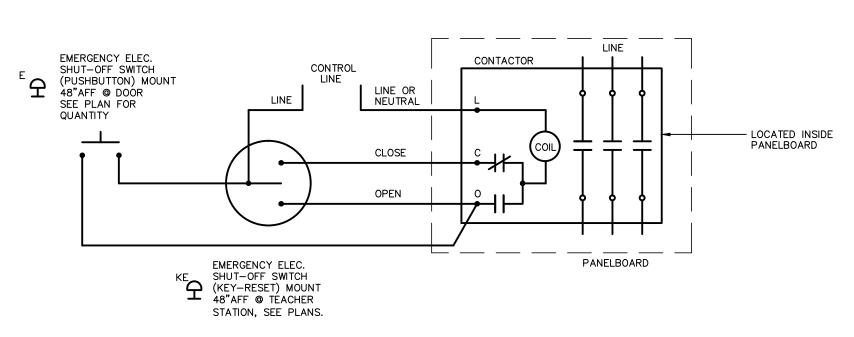


DETAIL NOTE:

KILN EXHAUST SHALL BE WIRED AS FOLLOWS: WHEN DISCONNECT SWITCH IS PLACED IN "ON" POSITION, RELAY CLOSES CONTACT AND SENDS SIGNAL TO ASSOCIATED EXHAUST FAN STARTER TO ACTIVATE FAN "HIGH SPEED" SETTING. AS THE TEMPERATURE RISES IN ROOM, THE THERMOSTAT CONTACT CLOSES. WHEN THE KILN SWITCH IS DEACTIVATED, THE FAN REMAINS ON THROUGH THE THERMOSTAT CONTACT. WHEN THE ROOM COOLS DOWN, THERMOSTAT CONTACT OPENS; FAN SHUTS OFF.

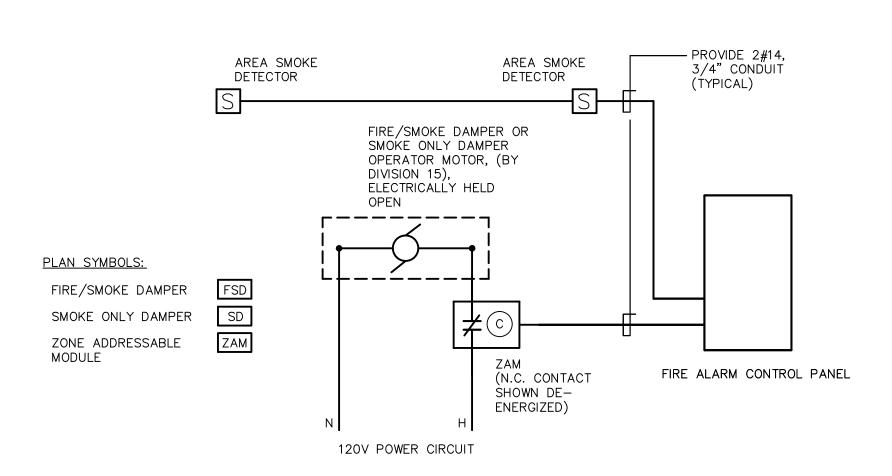
> KILN EXHAUST FAN WIRING DIAGRAM





NOTES: 1. INCLUDE GROUND WIRE WITH 120V CIRCUITS. 2. EMERGENCY POWER SHUT-OFF FOR PANELS PCL, LPMTL, LP3DA.

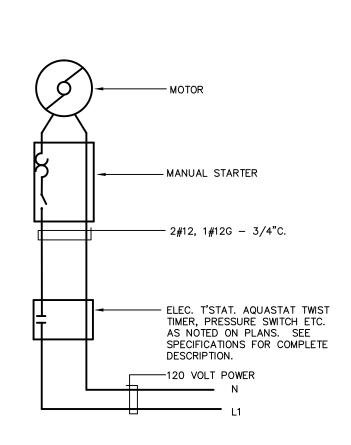
TYPICAL EMERGENCY POWER SHUT-OFF DIAGRAM



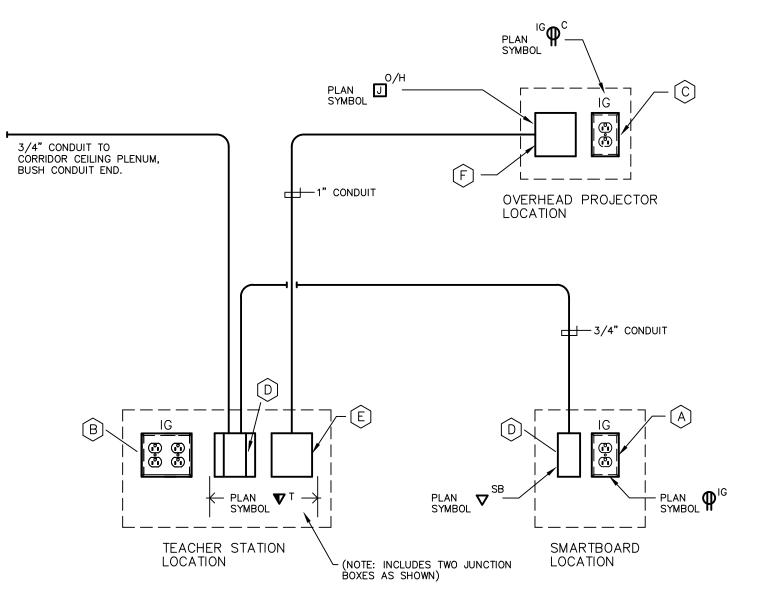
DETAIL NOTES:

1. ACTIVATION OF AREA SMOKE DETECTOR(S) SHALL SIGNAL FIRE ALARM CONTROL PANEL WHICH WILL THEN SIGNAL RESPECTIVE SMOKE DAMPER ZONE ADDRESSABLE MODULE, (ZAM), OPENING ZAM N.C. CONTACT, INTERUPPTING POWER TO DAMPER MOTOR, CAUSING DAMPER TO CLOSE. DAMPER REOPENS ON RESET OF FIRE ALARM SYSTEM.

TYPICAL FIRE ALARM/DAMPER INTERFACE DIAGRAM SCALE : NONE



TYPICAL FRACTIONAL HP FCU, CUH, UH OR EF WIRING DIAGRAM



TYPICAL CLASSROOM RACEWAY SYSTEM DETAIL AT SMARTBOARD/PROJECTOR N.T.S.

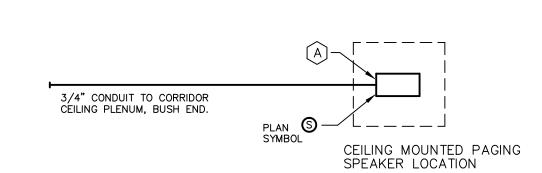
DETAIL NOTES:

(A) ISOLATED GROUND TYPE DUPLEX POWER OUTLET.

- (B) ISOLATED GROUND TYPE DOUBLE DUPLEX POWER OUTLET.
- (C) ISOLATED GROUND TYPE DUPLEX POWER OUTLET,
- MOUNTED FLUSH IN CEILING.
- D TWO GANG ELECTRICAL BOX, WALL MOUNTED, WITH SINGLE GANG "MUD RING" COVER PLATE. (E) TWO GANG ELECTRICAL BOX, WALL MOUNTED.
- (F) TWO GANG ELECTRICAL BOX, MOUNTED FLUSH
- IN CEILING.

ALL POWER OUTLETS, CONDUIT RUNS, SINGLE AND TWO GANG BOXES TO BE FURNISHED AND INSTALLED BY ELEC CONTR. ALL COMM. DEVICES, COMM. DEVICE PLATES, COMM. CABLING AND CONNECTIONS AT SINGLE AND TWO GANG BOXES TO BE FURNISHED BY OTHERS.

REFER TO ARCHITECTURAL AND TECHNOLOGY DRAWINGS FOR LOCATION REQUIREMENTS AND ADDITIONAL INFORMATION.



TYPICAL CEILING MOUNTED PAGING SYSTEM SPEAKER DETAIL

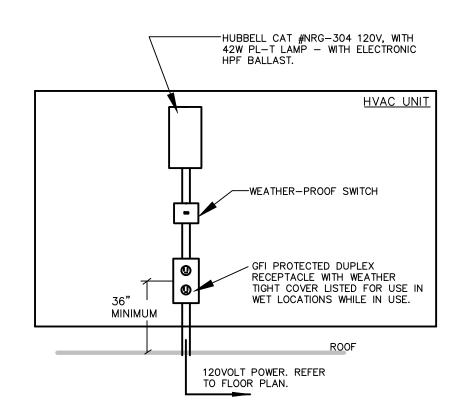
DETAIL NOTES:

(A) SINGLE GANG ELECTRICAL BOX, FLUSH MOUNTED

SINGLE GANG BOXES TO BE FURNISHED BY OTHERS.

ALL SPEAKERS, ENCLOSURES, CABLING AND CONNECTIONS AT

REFER TO ARCHITECTURAL AND TECHNOLOGY DRAWINGS FOR LOCATION REQUIREMENTS AND ADDITIONAL INFORMATION.

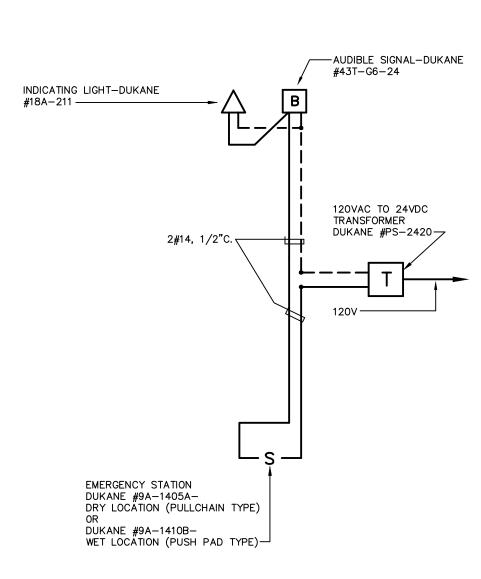


DETAIL NOTES:

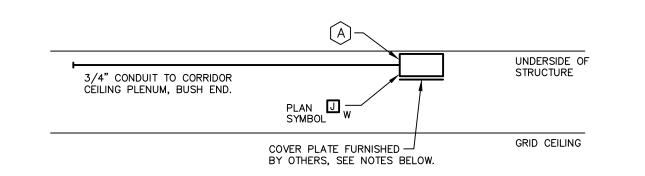
1. PROVIDE AT EACH HEATING, AIR CONDITIONING, OR REFRIGERATION UNIT ON ROOFTOPS IN ATTICS OR CRAWL SPACES PER NEC 210-63.

2. MOUNT DEVICES TO HVAC UNIT. COORDINATE ROOF PENETRATION WITH ROOF INSTALLER AND G.C.

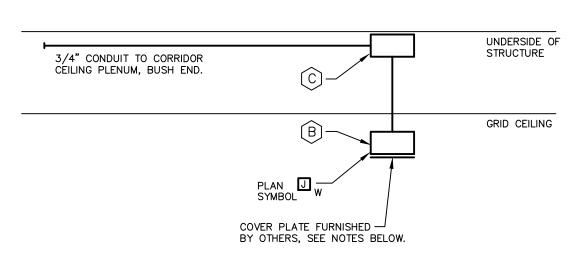
TYPICAL ROOF MOUNTED UNIT **OUTLET + LIGHT**



CALL FOR AID SYSTEM



TYPICAL FOR NON-PLENUM CEILING AREAS



TYPICAL FOR PLENUM AIR RETURN CEILING AREAS

TYPICAL CEILING MOUNTED TECHNOLOGY SYSTEM WIRELESS DEVICE DETAIL N.T.S.

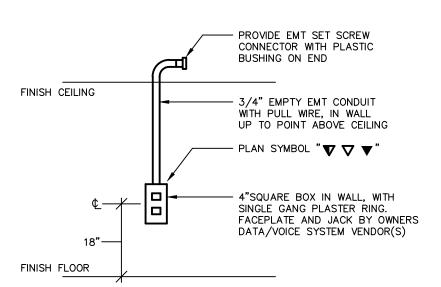
DETAIL NOTES:

(A) SINGLE GANG ELECTRICAL BOX, SURFACE MOUNTED AT UNDERSIDE OF STRUCTURAL DECK ABOVE CEILING.

(B) SINGLE GANG WIREMOLD SURFACE MOUNTED ELECTRICAL BOX, MOUNTED HIGH ON WALL BELOW GRID CEILING. EXTEND WIREMOLD #700 SERIES SURFACE METAL RACEWAY FROM BOX TO SINGLE GANG ELECTRICAL BOX ABOVE GRID CEILING SURFACE BOX AND RACEWAY RACEWAY SHALL HAVE FACTORY PAINTED IVORY FINISH.

(C) SINGLE GANG ELECTRICAL BOX, SURFACE MOUNTED AT UNDERSIDE OF STRUCTURAL DECK ABOVE CEILING.

ALL DEVICES, COVERPLATES AND CABLING AND CONNECTIONS AT SINGLE GANG BOXES TO BE FURNISHED BY OTHERS. REFER TO ARCHITECTURAL AND TECHNOLOGY DRAWINGS FOR LOCATION REQUIREMENTS AND ADDITIONAL INFORMATION.



TYPICAL DATA/VOICE **OUTLET INSTALLATION DETAIL**

REVISIONS DATE JANUARY 29, 2001 DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II FEBRUARY 21, 2001 DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II JUNE 22, 2001 DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



DESCRIPTION

NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

vanZelmHeywood&ShadfordInc MECHANICAL AND ELECTRICAL ENGINEERS

TEL (860) 521-4329 FAX (860) 521-5620

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KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 SCALE: AS NOTED CHECKED BY:

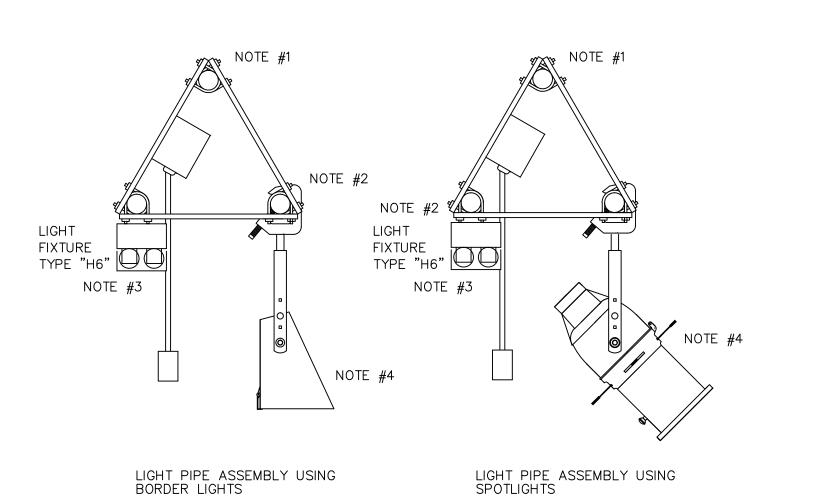
ELECTRICAL DETAILS

PROJECT NO.: 00048

DRAWING NO.:

E3.02 DATE: JANUARY 20, 2001

File Path: R:\2000155.00\Dwgs\DD\



STAGE LIGHT PIPE DETAILS

(TYPICAL FOR FOUR LIGHT PIPE POSITIONS) <u>DETAIL NOTES :</u> 1. UPPER PIPE INSTALLED BY THE RIGGING CONTRACTOR. BRACKETS AND CONNECTOR STRIPS SUPPLIED BY THE STAGE LIGHTING SUPPLIER AND INSTALLED BY THE ELECTRICAL

- 2. LOWER TWO PIPES INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 3. FLUORESCENT FIXTURE SUPPLIED BY AND
- INSTALLED BY THE ELECTRICAL CONTRACTOR. 4. BORDER/SPOTLIGHT FIXTURES SUPPLIED BY THE STAGE LIGHTING SUPPLIER AND ATTACHED TO PIPE BY THE ELECTRICAL CONTRACTOR.

GENERAL NOTES:

- 1. REFER TO THE LIGHTING FIXTURE SCHEDULE ON DWG. E4.01 FOR ADDITIONAL INFORMATION ON THE LIGHTING FIXTURES.
- 2. REFER TO DWG. E1.18 MAIN LEVEL AREA "J" ELECTRICAL LIGHTING PLAN AND DWG. E1.28 UPPER LEVEL AREA "J" ELECTRICAL LIGHTING PLAN FOR ADDITIONAL LIGHT FIXTURE LOCATION INFORMATION.

67.5000 54.0000 54.0000 37.1250 #14 AWG DMX OUT #1, BALCONY RAIL LEFT, BLEDEN #9729 DMX OUT #2, BALCONY RAIL RIGHT, BELDEN #9729 DMX OUT #3, CATWALK, BELDEN #9729 DMX OUT #4, 1ST ELECTRIC, BELDEN #9729 DMX OUT #5, 2ND ELECTRIC, BELDEN #9729 DMX OUT #6, 3RD ELECTRIC, BELDEN #9729 DMX OUT #7, 4TH ELECTRIC, BELDEN #9729 CAT 5 WRE TO BOOTH, PLUS 2 - #16 WRES, INSTALLED CAT 5 WRE TO STAGE LEFT, PLUS 2 - #16 WRES, PORTABLE CAT 5 WRE TO STAGE RIGHT, PLUS 2 - #16 WRES, PORTABLE CAT 5 WRE TO TECH TABLE, CENTER OF AUDITORIUM, PLUS 2 #16 WRES, PORTABLE WALL MOUNTE EQUIPMENT ELECTRONICS DMX SPLITTER CAT 5 SWITCH POWER SUPPLY 20 AMP CIRCUIT FROM CONSTANT MODULE

- 12 HOUSE LIGHT CIRCUITS
- 38 - 1ST CATWALK CIRCUITS, 36 DIMMED, 2 RELAY, LABEL 1 THRU 30 AND 169 & 170
- 12 BALCONY LEFT CIRCUITS, LABEL 31 THRU 45
- 12 BALCONY RIGHT CIRCUITS, LABEL 46 THRU 60
- 31 - 1ST ELECTRIC CIRCUITS, 30 DIMMED, 1 RELAY, LABEL 61 THRU 90 AND 171
- 25 - 2ND ELECTRIC CIRCUITS, 24 DIMMED, 1 RELAY, LABEL 91 THRU 114 AND 172
- 21 - 3RD ELECTRIC CIRCUITS, 20 DIMMED, 1 RELAY, LABEL 115 THRU 134 AND 173
- 19 - 4TH ELECTRIC CIRCUITS, 18 DIMMED, 1 RELAY, LAABEL 135 THRU 152 AND 174
- 4 DOWN STAGE LEFT CIRCUITS, DIMMED, LABEL 157 THRU 160
- 4 UP STAGE LEFT CIRCUITS, DIMMED, LABEL 161 THRU 164
- 4 UP STAGE RIGHT CIRCUITS, DIMMED, LABEL 165 THRU 168 6 EMERGENCT HOUSE LIGHT CIRCUITS -WALL MOUNTED EQUIPMENT DIMMER CABINETS WITH 91 DUAL 2.RKW DIMMER MODULES, 1 DUAL EMERGENCY RELAY
TRANSFER CABINET
WITH 6 - 20 AMP
CIRCUITS. MUST BE
UL-1008 LISTED. ELTS ARCHITECTURAL 20 AMP CONSTANT MODULE AND 4 20 AMP RELAY MODULES LECTRONICS AND DIMMER CABINETS MUST BE FROM THE SAME MANUFACTURER 20 AMP CIRCUIT FROM CONSTANT MODULE 20 AMP CIRCUIT FROM CONSTANT MODULE

THEATER LIGHTING CONTROL RISER DIAGRAM

A DMX IN #1 B DMX IN #2 C DMX OUT, UNIV #2 D ETC LINK E REMOTE FOCUS UNIT F NODE G CAT 5 SWITCH H CAT 5 TAP I ENTRANCE STATION J WORK LIGHT STATION K HOUSE LIGHT STATION L STAGE MANAGER'S PANEL M KEY LOCK OUT SWITCH N 120 VAC OUTLET TO RACK F G K M N TO RACK ∏ TECH TABLE NHH HOUSE CENTER TO RACK—C CATWALK ÔÔ NODE CONTAINS: 4 DMX IN/OUT OUTLETS RFU OUTLE C LINK OUTLET DM RECEPTACLES CAN BE PROGRAMED TO BE EITHER IN OR OUT

THEATER LIGHTING DIMMER SYSTEM RISER

N.T.S.

- 1. REFER TO SPECIFICATION SECTION #16780 FOR ADDITIONAL INFORMATION. 2. LOCATE BOTH DIMMER CABINETS IN DIMMER LIGHT CONTROL ROOM #1908,
- ADJACENT TO STAGE.

BILL OF MATERIALS PROVIDE THE FOLLOWING IN THE QUANTITIES NOTED: 2 DIMMER CABINETS, EACH TO HOLD A TOTAL OF 48 DUAL DIMMER MODULES 91 DUAL DIMMER MODULES, 350ms CHOKES 1 CONSTANT MODULE WITH 2 - 20 AMP BREAKERS 4 DUAL RELAY MODULES FOR HID FIXTURES AND STAGE FLOURESCENT WORK LIGHTS 1 EMERGENCY RELAY TRANSFER CABINET WITH 6 TRANSFER RELAYS, UL-1008 REQUIREMENTS 1 LIGHTING CONTROL CONSOLE, COMPLETE WITH MOVING LIGHT MODULE 2 17" SVGA MONITORS 1 REMOTE FOCUS UNIT 1 | ELECTRONICS EQUIPMENT RACK WITH ARCHITECTURAL CONTROL UNIT 1 12 CHANNEL DMX OUT SPLITTER AND A CAT 5 SWITCH 2 10' DMX CONTROL CABLE 2 25' DMX CONTROL CABLE 2 50' DMX CONTROL CABLE 2 10' ETC LINK CONTROL CABLE 1 50' RFU EXTENSION CABLE 1 ETC NODE (SEE DRAWINGS FOR DETAILS), INSTALLED 1 ETC NODE (SEE DRAWINGS FOR DETAILS), PORTABLE 4 ENTRANCE STATIONS

- 2 HOUSE LIGHT CONTROL STATIONS 1 STAGE MANAGER'S STATION 1 KEY OPERATED LOCKOUT STATION
- 2 BALCONY CONNECTOR STRIPS
- 8 | SETS OF BALCONY BOOM PIPES, SEE DRAWINGS FOR DETAILS 1 FRONT OF HOUSE CONNECTOR STRIP, SEE DRAWINGS FOR DETAILS, CATWALK
- 4 STAGE CONNECTOR STRIPS, SEE DRAWINGS FOR DETAILS 4 STAGE OUTLET BOX, SEE DRAWINGS FOR DETAILS
- 24 19 DEGREE ELLIPSOIDAL SPOTLIGHTS, COMPLETE WITH LAMP, C-CLAMP, COLOR FRAME, GP CONNECTOR, AND SAFETY CABLE 36 26 DEGREE ELLIPSOIDAL SPOTLIGHTS, COMPLETE WITH LAMP, C-CLAMP, COLOR FRAME, GP CONNECTOR, AND SAFETY CABLE
- 24 50 DEGREE ELLIPSOIDAL SPOTLIGHTS, COMPLETE WITH LAMP, C-CLAMP, COLOR FRAME, GP CONNECTOR, AND SAFETY CABLE 4 36 DEGREE ELLIPSOIDAL SPOTLIGHTS, HID LAMP, C-CLAMP, COLOR FRAME, GTL CONNECTOR, AND SAFETY CABLE
- 24 SOURCE 4 PAR LIGHTS, COMPLETE WITH LAMP, C-CLAMP, COLOR FRAME, GP CONNECTOR, AND SAFETY CABLE 24 SOURCE 4 PARNEL LIGHTS, COMPLETE WITH LAMP, C-CLAMP, COLOR FRAME, GP CONNECTOR, AND SAFETY CABLE
- 2 | FOLLOW SPOTS, LYCIAN HP SERIES
- 6 CYC LIGHTS, SC-03 COMPLETE WITH FFT LAMPS, C-CLAMP, HANGING YOKE, COLOR FRAMES, GP CONNECTOR, AND SAFETY CABLES
- 1 LOT OF EXTENSION CABLES, SEE DRAWINGS FOR DETAILS
 30 18" SIDE ARMS WITH SINGLE TEE
- 20 SPARE HPL LAMPS 6 SPARE FFT LAMPS



REVISIONS

JANUARY 29, 2001

FEBRUARY 21, 2001

DESCRIPTION

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION

DRAWINGS ISSUED FOR STATE

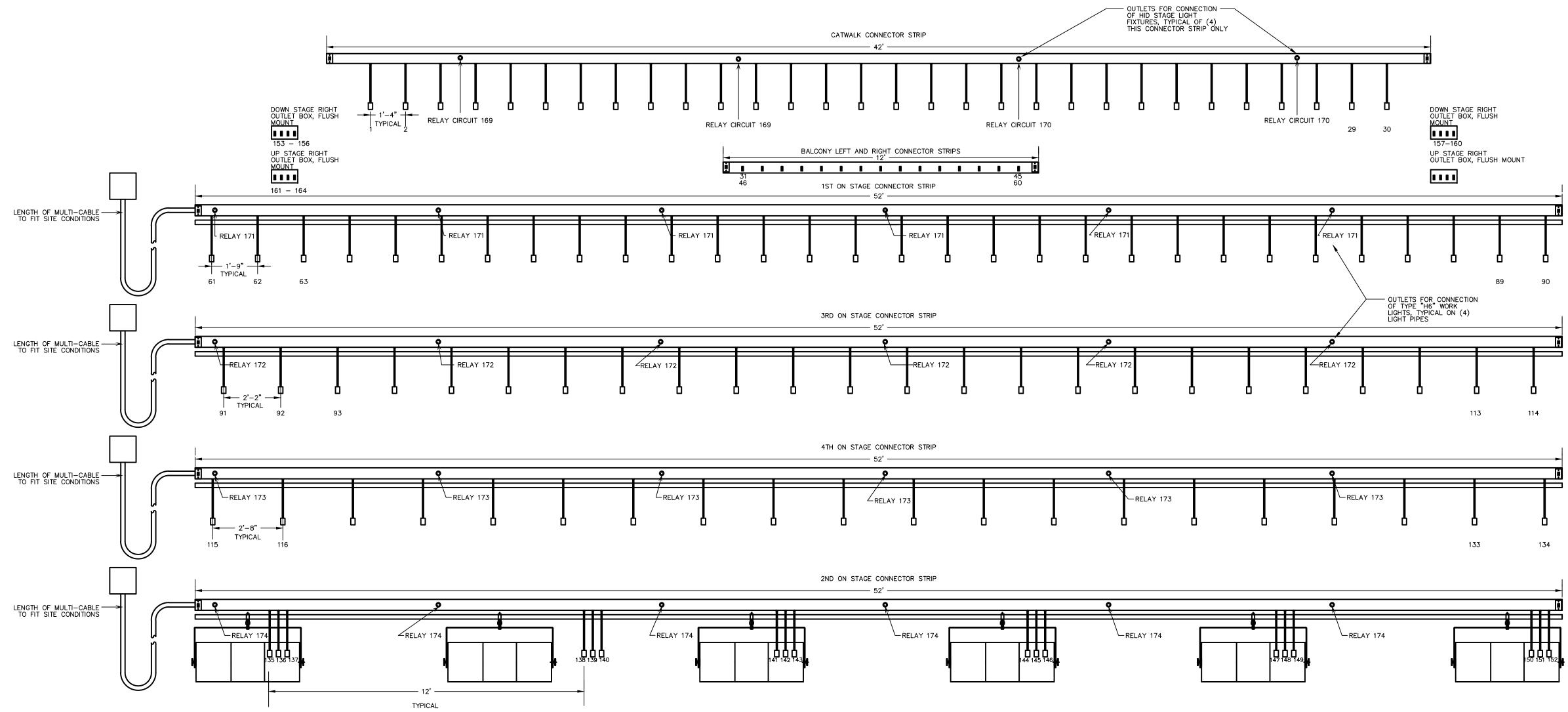
DEPARTMENT OF EDUCATION

REVIEW OF PHASE II

THEATER CONTROL WIRING RISER DIAGRAM

N.T.S.

N.T.S.

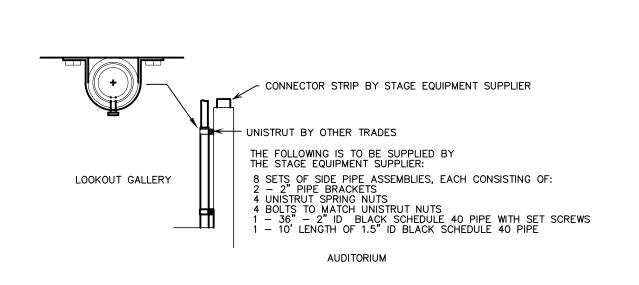


STAGE LIGHT PIPE ELEVATION DETAILS

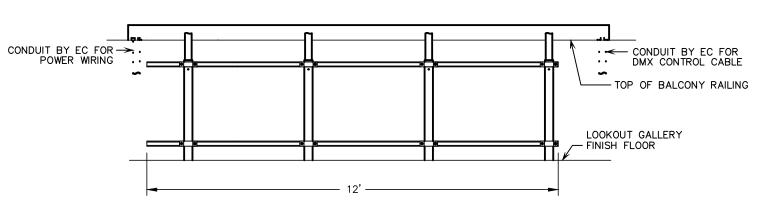
N.T.S. (TYPICAL FOR FOUR LIGHT PIPE POSITIONS)



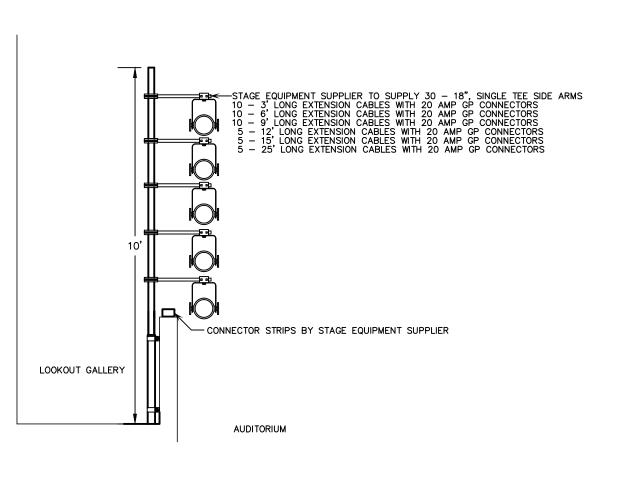
STAGE WALL OUTLET RECEPTACLE ELEVATION DETAILS



SECTION DETAIL



PARTIAL ELEVATION



PARTIAL SECTION

LOOKOUT GALLERY LIGHTING POSITION MOUNTING DETAILS

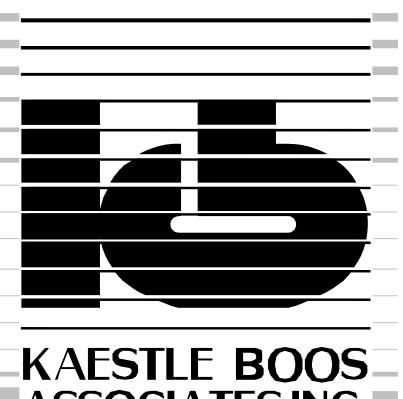
N.T.S.

NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.00



ASSOCIATES, INC. ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361 DRAWN BY: MSA SCALE: AS NOTED CHECKED BY: RLG

THEATRICAL LIGHTING **SYSTEM DETAILS**

PROJECT NO.: 00048

DRAWING NO.:

DATE: JANUARY 20, 2001

E3.03

DOWN STAGE LEFT

WALL OUTLET

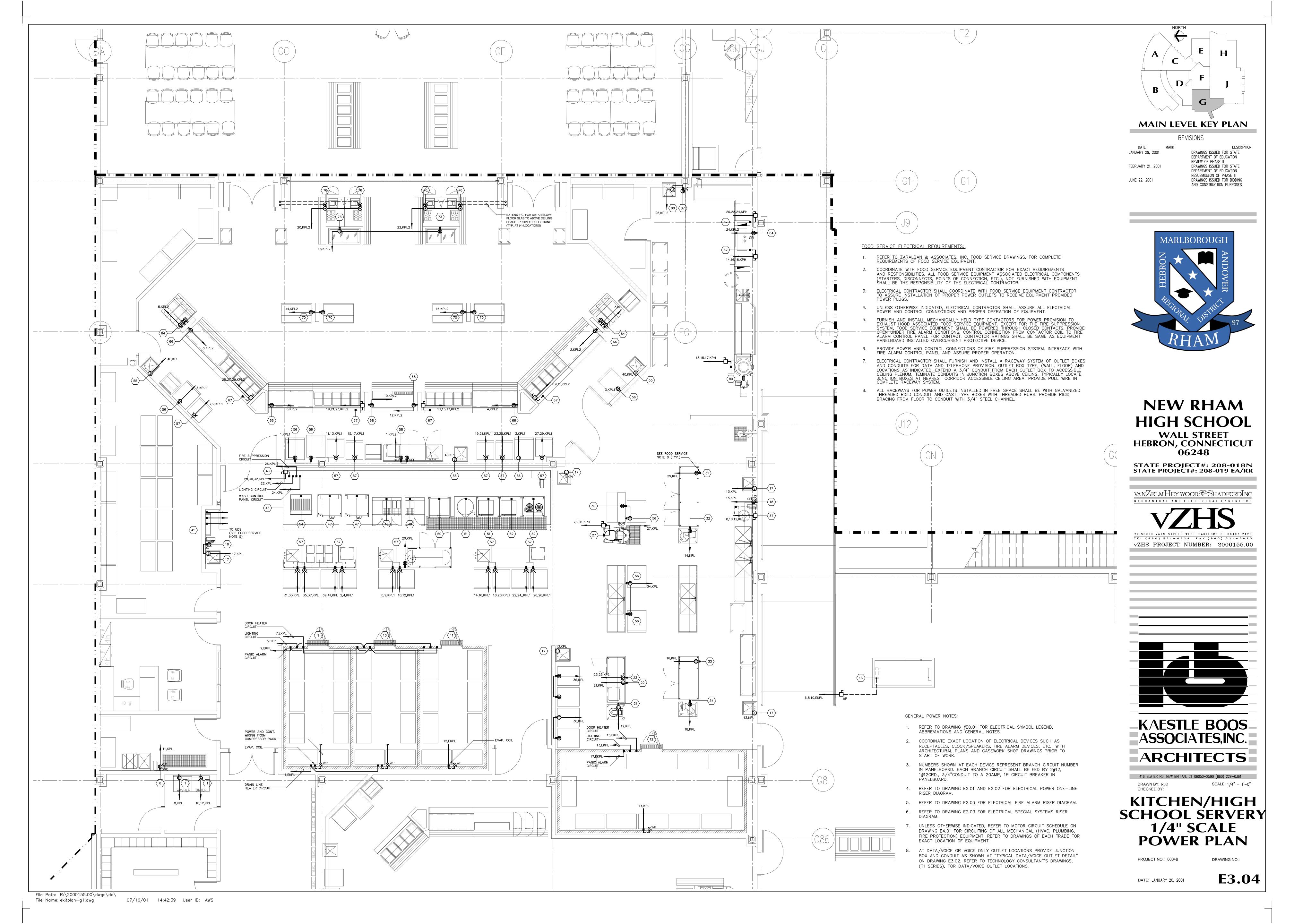
RECEPTACLES

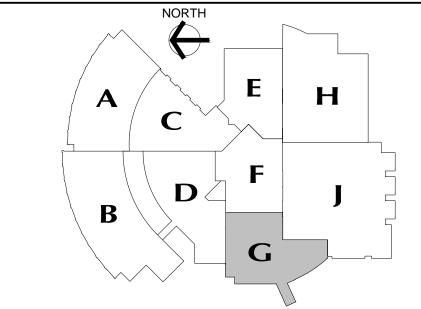
STAGE CIRCUITS #83 THRU #86

UP STAGE LEFT WALL OUTLET

RECEPTACLES

STAGE CIRCUITS #91 THRU #93





MAIN LEVEL KEY PLAN

REVISIONS

DATE JANUARY 29, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II FEBRUARY 21, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II JUNE 22, 2001 DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



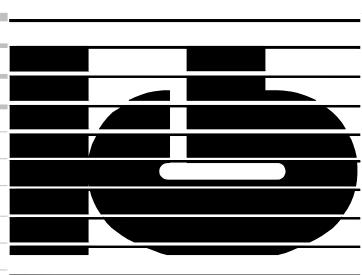
NEW RHAM HIGH SCHOOL

WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING MECHANICAL AND ELECTRICAL ENGINEERS

TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00



-KAESTLE BOOS-ASSOCIATES,INC. ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361

CHECKED BY: MIDDLE SCHOOL

SERVERY 1/4" SCALE POWER PLAN

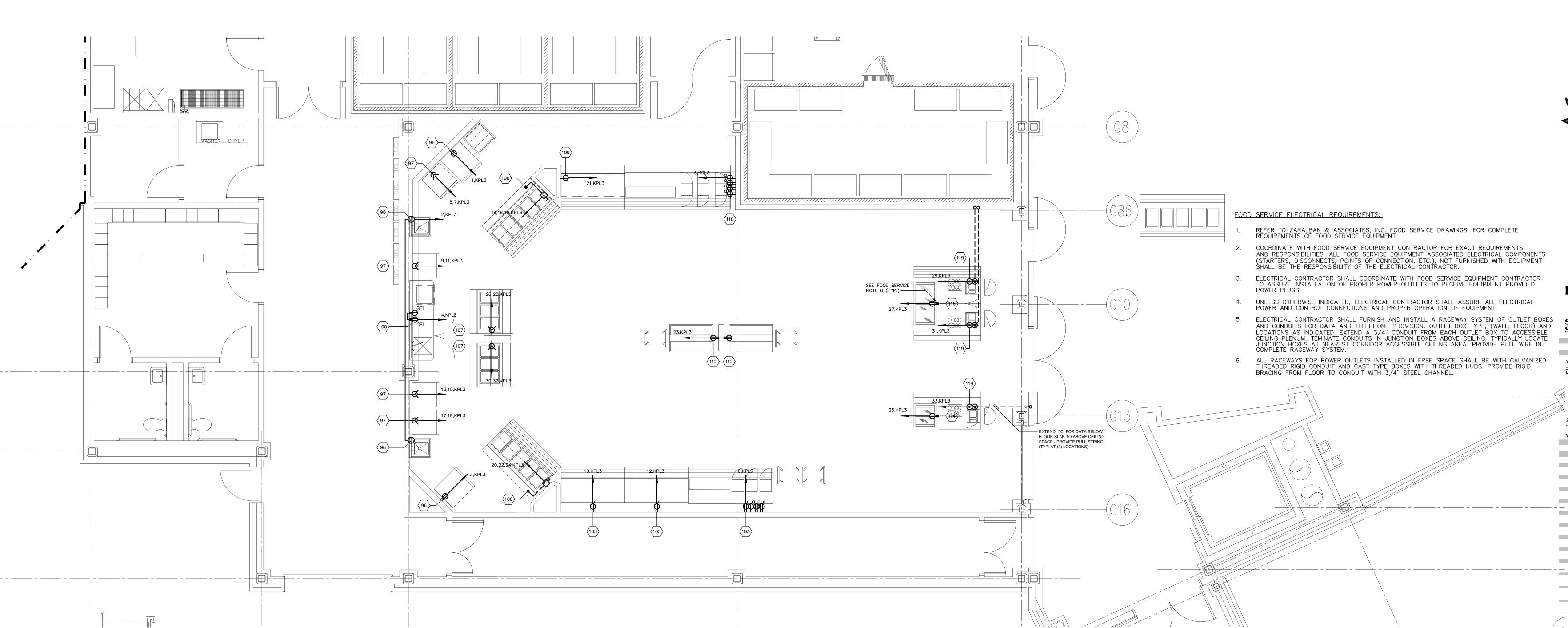
PROJECT NO.: 00048

DRAWN BY: RLG

DRAWING NO.:

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

E3.05 DATE: JANUARY 20, 2001



GENERAL POWER NOTES:

- REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO
- 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN PANELBOARD.
- 4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE-LINE
- 5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.
- 6. REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER DIAGRAM.
- 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- 8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS, (T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.

File Name: ekitplan—g2.dwg

					SCHE	DULE	OF	FOOD SI	ERVICE EQ	UIPME	ENT	
~			(нР)	(KW)				TYPE OF CONNECTION				
NUMBER	ITITY		EPOWER	ITS				NEMA CONFIGURATION OR				
ITEM	QUANTIT	DESCRIPTION	HORSE	KILOWA ⁻	AMPS (A)	VOLTS (V) PHASE (Ø)	HARD WIRED	DISCONNECTING DEVICE	POWER FEEDERS	BRANCH BREAKER	SOURCE PANEL	REMARKS
	1	CLOTHES WASHER	-	_	20.0	120-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
1	1	CLOTHES DRYER	-	-	30.0	208–1ø	_	14-30R	3#10,1#10GND.3/4"C.	30A-2P	SEE FLOOR PLANS	
6	1	HOSE BIBB (N.I.K.E.C. BY P.C.)	-	-	20.0	120-1ø	-	5-20R/GFI	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	POWER REQUIRED FOR POWER WASHER
	1	WALK-IN COMMODITIES FREEZER	-	0.3 (LTS) 0.5	20.0	120 – 1ø	•	-	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	_
9	1	WALK-IN FREEZER EVAPORATOR COIL	-	_	-	-		-	SEE R	REMARKS	5	POWER AND CONTROL WIRING SHALL BE DERIVED FROM COMPRESSOR RACK (ITEM NO 13).
	1	WALK-IN FREEZER DRAIN LINE HEATER	-	1.0 0.3 (LTS)	-	120-1ø	_	SEE REMARKS	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	PROVIDE ON/OFF CONTROL SWITCH
10	1	WALK-IN FREEZER WALK-IN FREEZER EVAPORATOR COIL	-	0.5	20.0	120-1ø _			2#12,1#12GND.3/4°C.	20A-1P REMARKS	SEE FLOOR PLANS	POWER AND CONTROL WIRING SHALL BE DERIVED FROM COMPRESSOR RACK (ITEM NO. 13).
	1	WALK-IN FREEZER DRAIN LINE HEATER	_	1.0	_	120-1ø	<u> </u>	SEE REMARKS	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	PROVIDE ON/OFF CONTROL SWITCH
	1	WALK-IN REFRIGERATOR	-	0.3 (LTS) 0.5	20.0	120-1ø	■	-	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
11	1	WALK-IN REFRIGERATOR EVAPORATOR COIL	-	-	4.2	120-1ø	■	F.H.M.S.	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
12	1	WALK-IN REFRIGERATOR	-	0.3 (LTS) 0.5	20.0	120—1ø		-	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
	1	WALK-IN REFRIGERATOR EVAPORATOR COIL	-	-	4.2	120 – 1ø		F.H.M.S.	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
13	1	COMPRESSOR RACK	3, 3, 2, 2 1/2 & 1/2	-	52.4	208-3ø		60A-3P 3F WP	4#6,1#8GND.1-1/2"C.	60A-3P	SEE FLOOR PLANS	EXTEND POWER AND CONTROL WIRING TO EVAPORATORS, ITEMS 9 & 10.
17		HAND SINKS (A.D.A.)	-	-	-	120-1ø		- 5 20D (OFL (FACU)	2#12,1#12GND.3/4"C. (EACH)	20A-1P	SEE FLOOR PLANS	POWER FOR ELECTRONIC FAUCET
18	1	HOSE BIBBS (N.I.K.E.C. BY P.C.) 20 QUART MIXING MACHINE	- 1/2	_	20.0	120-1ø 120-1ø	-	5-20R/GFI (EACH) 5-20R	2#12,1#12GND.3/4"C. (EACH) 2#12,1#12GND.3/4"C.	20A-1P 20A-1P	SEE FLOOR PLANS SEE FLOOR PLANS	POWER REQUIRED FOR POWER WASHER -
22	1	PREPARATION TABLE W/ DRAWER & OVERSHELF	-	_	20.0	120-1ø	-	5-20R	2#12,1#12GND.3/4°C.	20A-1P	SEE FLOOR PLANS	_
23	1	UNDERCOUNTER BLAST CHILLER	1	_	7.5	208–1ø	_	F.H.M.S.	3#12,1#12GND.3/4"C.	15A-2P	SEE FLOOR PLANS	-
27	1	60 QUART MIXING MACHINE	2	-	-	480-3ø		30A-3P 3F	4#12,1#12GND.3/4"C.	15A-3P	SEE FLOOR PLANS	-
30	1	PREPARATION TABLE W/ OVERSHELF (A.D.A.)	-	_	20.0	120-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	CONVENIENCE OUTLET
31	1	UNDERCOUNTER REFRIGERATOR 3-SECTION	1/3	_	7.7	120 – 1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
32	1	FOOD CUTTER	1/2	-	-	120-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
33	1	UNDERCOUNTER REFRIGERATOR 2—SECTION SLICING MACHINE	1/3 1/2	_	7.6	120-1ø 120-1ø	_	5-20R 5-20R	2#12,1#12GND.3/4°C. 2#12,1#12GND.3/4°C.	20A-1P 20A-1P	SEE FLOOR PLANS SEE FLOOR PLANS	_
37	1	WASTE DISPOSER	5.0	_	6.4	480-3ø	_	30A-3P 3F	4#12,1#12GND.3/4"C.	15A-3P	SEE FLOOR PLANS	_
42	1	UNDERCOUNTER REFRIGERATOR 2-SECTION	1/3	-	7.6	120-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
	1	VENTILATOR W/WASH & FIRE SYSTEMS	-	0.48	-	120-1ø		SEE REMARKS	2#12,1#12GND.3/4"C.	20A-1P (VC) SEE REMARKS	SEE FLOOR PLANS	PROVIDE ON/OFF SWITCH FOR LIGHTING CONTROL. EXTEND ONLY LIGHTING AND PERIPHERAL POWER CIRCUITS THROUGH CONTACTOR
45	1	VENTILATOR WASH CONTROL PANEL	-	-	20.0	120-1ø		SEE REMARKS	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	INTERCONNECT WITH U.D.S. ITEM 46
	1	FIRE SUPPRESSION SYSTEM	-	-	20.0	120 – 1ø	•	SEE REMARKS	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	INTERCONNECT WITH U.D.S. ITEM 46
46	1	UTILITY DISTRIBUTION SYSTEM	-	-	50.0	120/208-3ø		100A-3P 3F	4#4,1#8GND.1-1/4"C.	70A-3P	SEE FLOOR PLANS	POWER AND CONTROL WIRING SHALL BE DERIVED FROM UTILITY
47	2	DOUBLE DECK CONVECTION OVENS DEEP FAT FRYERS W/FILTER SYSTEM	_		_	_	- -			REMARKS EMARKS		POWER AND CONTROL WIRING SHALL BE DERIVED FROM UTILITY DISTRIBUTION SYSTEM (ITEM NO. 46). (VC) VIA CONTACTOR POWER AND CONTROL WIRING SHALL BE DERIVED FROM UTILITY DISTRIBUTION SYSTEM (ITEM NO. 46). (VC) VIA CONTACTOR
49		DEEP FAT FRYER W/FILTER SYSTEM	-	_	-	-		-		REMARKS		POWER AND CONTROL WIRING SHALL BE DERIVED FROM UTILITY DISTRIBUTION SYSTEM (ITEM NO. 46). (VC) VIA CONTACTOR
50	1	30 GALLON TILTING SKILLET	-	-	-	-		-	SEE R	REMARKS	5	POWER AND CONTROL WIRING SHALL BE DERIVED FROM UTILITY DISTRIBUTION SYSTEM (ITEM NO. 46). (VC) VIA CONTACTOR
51	1	STEAMER 40 GALLON KETTLE BATTERY	-	-	-	-		-	SEE R	REMARKS	5	POWER AND CONTROL WIRING SHALL BE DERIVED FROM UTILITY DISTRIBUTION SYSTEM (ITEM NO. 46). (VC) VIA CONTACTOR
52	1	STEAMER TWIN KETTLE BATTERY	-	-	-	-		-		REMARKS		POWER AND CONTROL WIRING SHALL BE DERIVED FROM UTILITY DISTRIBUTION SYSTEM (ITEM NO. 46). (VC) VIA CONTACTOR POWER AND CONTROL WIRING SHALL BE DERIVED FROM UTILITY
54 55	3	34" CHAR-BROILER HAND SINKS (A.D.A.)	-		_	- 120-1ø	•		SEL R	ZEMARKS 20a-1p	SEE FLOOR PLANS	DISTRIBUTION SYSTEM (ITEM NO. 46). (VC) VIA CONTACTOR POWER FOR ELECTRONIC FAUCET
56		COLD TRANSPORT CABINETS	1/4	_	7.5	120-1¢	_	5-20R (EACH)	2#12,1#12GND.3/4"C. (EACH)	20A-1F	SEE FLOOR PLANS	-
57	6	HOT TRANSPORT CABINETS	_	2.6	12.5	208-1ø	_	SPECIAL PURPOSE SINGLE OUTLET (EACH)	3#12,1#12GND.3/4"C. (EACH)	20A-1P (EACH)	SEE FLOOR PLANS	-
58	1	BACKCOUNTER W/ WORK SINK & DRAWERS	-	_	20.0	120-1ø	-	(2) 5-20R GFI	2#12,1#12GND.3/4"C. (EACH)	20A-1P	SEE FLOOR PLANS	(2) CONVENIENCE OUTLETS
64	2	DRY DISPLAY COUNTERS	-	-	15.0	120-1ø	-	(3) 5-20R	2#12,1#12GND.3/4"C. (EACH)	20A-1P	SEE FLOOR PLANS	(3) CONVENIENCE OUTLETS
66	4	COUNTER-TOP MERCHANDISERS	3/4	-	16.0	120-1ø	-	5-20R(EACH)	2#12,1#12GND.3/4"C. (EACH)	20A-1P	SEE FLOOR PLANS	-
67	4	HOT FOOD COUNTER W/ PROTECTOR CASE	-	5.9	16.92	208-3ø	_	30A-3P 3F	4#10,1#10GND.3/4"C.	30A-3P	SEE FLOOR PLANS	- (2) CONVENIENCE OUT ETC
68 70	1	DRY DISPLAY/ BEVERAGE COUNTER MILK/JUICE DISPENSERS	- 1/2		15.0 8.2	120-1ø 120-1ø	_	(2) 5-20R 5-20R (EACH)	2#12,1#12GND.3/4"C. (EACH) 2#12,1#12GND.3/4"C. (EACH)	20A-1P 20A-1P(EACH)	SEE FLOOR PLANS SEE FLOOR PLANS	(2) CONVENIENCE OUTLETS
73	2	ICE CREAM MERCHANDISERS	-		4.4	120-1¢	_	5-20R (EACH)	2#12,1#12GND.3/4°C. (EACH)	20A-1F(LACII)	SEE FLOOR PLANS	_
76	4	CASH REGISTERS	-	_	20.0	120-1ø	-	5-20R (EACH)	2#12,1#12GND.3/4"C. (EACH)	20A-1P(EACH)	SEE FLOOR PLANS	-
80	1	WASTE PULPER	-	_	25.0	480-3ø	•	60A-3P 3F	4#8,1#10GND.1"C.	40A-3P	SEE FLOOR PLANS	-
82	1	DISHWASHING MACHINE W/ BOOSTER	3.25	15.0	24.0	480-3ø		30A-3P 3F	4#10,1#10GND.3/4"C.	30A-3P	SEE FLOOR PLANS	
	1	DISHWASHING BOOSTER	-	57.0	69.0	480-3ø		100A-3P 3F	4#4,1#8GND.1-1/4"C.	90A-3P	SEE FLOOR PLANS	-
84 87	1	DETERGENT METER & RINSE INJECTOR HOSE BIBB (N.I.K.E.C. BY P.C.)	-	-	20.0	120-1ø 120-1ø	-	5–20R GFI 5–20R GFI	2#12,1#12GND.3/4°C. 2#12,1#12GND.3/4°C.	20A-1P 20A-1P	SEE FLOOR PLANS SEE FLOOR PLANS	POWER FOR POWER WASHER
88	1	HAND SINK (A.D.A.)	-	-	-	120–1ø	_ ■	5-20R GFI -	2#12,1#12GND.3/4°C. (EACH)	20A-1P 20A-1P	SEE FLOOR PLANS	POWER FOR POWER WASHER POWER FOR ELECTRONIC FAUCET
96	2	COLD TRANSPORT CABINETS	1/4	-	7.5	120-1ø	<u>-</u>	5-20R (EACH)	2#12,1#12GND.3/4"C. (EACH)	20A-1P	SEE FLOOR PLANS	-
97	4	HOT TRANSPORT CABINETS	-	2.6	12.5	208–1ø	-	14-20R	3#12,1#12GND.3/4"C.	20A-2P	SEE FLOOR PLANS	-
98	2	HAND SINKS (A.D.A.)	-	-	-	120-1ø		-	2#12,1#12GND.3/4"C. (EACH)	20A-1P	SEE FLOOR PLANS	POWER FOR ELECTRONIC FAUCET
100		BACKCOUNTER W/WORK SINK & DRAWERS	-	57.0	(2) 20.0	120-1ø	-	(2) 5–20R	2#12,1#12GND.3/4"C. (EACH)	20A-1P	SEE FLOOR PLANS	(2) CONVENIENCE OUTLETS
103	2	DRY DISPLAY COUNTER COUNTER—TOP MERCHANDISER	3/4	_	(4) 20.0 16.0	120–1ø 120–1ø	-	(4) 5-20R 5-20R (EACH)	2#12,1#12GND.3/4"C. (EACH) 2#12,1#12GND.3/4"C. (EACH)	20A-1P 20A-1P(EACH)	SEE FLOOR PLANS SEE FLOOR PLANS	(4) CONVENIENCE OUTLETS
105		HOT FOOD COUNTERS W/PROTECTOR CASE	3/4	-	16.0 16.92	120-1ø 208-3ø	<u> </u>	5-20R (EACH) 30A-3P 3F	2#12,1#12GND.3/4°C. (EACH) 4#10,1#10GND.3/4°C.	30A-3P	SEE FLOOR PLANS SEE FLOOR PLANS	_
107		HOT FOOD COUNTERS W/PROTECTOR CASE	-	3.6	17.75	120/208-1ø	<u> </u>	30A-2P 3F	3#10,1#10GND.3/4°C.	30A-2P	SEE FLOOR PLANS	-
109	1	COUNTER-TOP MERCHANDISER	3/4	-	16.0	120-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	_
110	1	DRY DISPLAY COUNTER	-	-	(4) 20.0	120-1ø		(4) 5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	(4) CONVENIENCE OUTLETS
112	2	MILK/JUICE DISPENSERS	1/2	-	8.2	120-1ø	-	5-20R (EACH)	2#12,1#12GND.3/4"C. (EACH)	20A-1P(EACH)	SEE FLOOR PLANS	-
114	1	ICE CREAM MERCHANDISER	-	-	3.6	120-1ø	-	5-20R 5-20R	2#12,1#12GND.3/4°C.	20A-1P	SEE FLOOR PLANS	-
116	3	ICE CREAM MERCHANDISER CASH REGISTERS	-	-	20.0	120–1ø 120–1ø	-	5-20R 5-20R (EACH)	2#12,1#12GND.3/4"C. 2#12,1#12GND.3/4"C. (EACH)	20A-1P 20A-1P(EACH)	SEE FLOOR PLANS SEE FLOOR PLANS	_
						<u> </u>	<u> </u>	<u> </u>	, , , ,	,= ··-//		

FOOD SERVICE ELECTRICAL REQUIREMENTS:

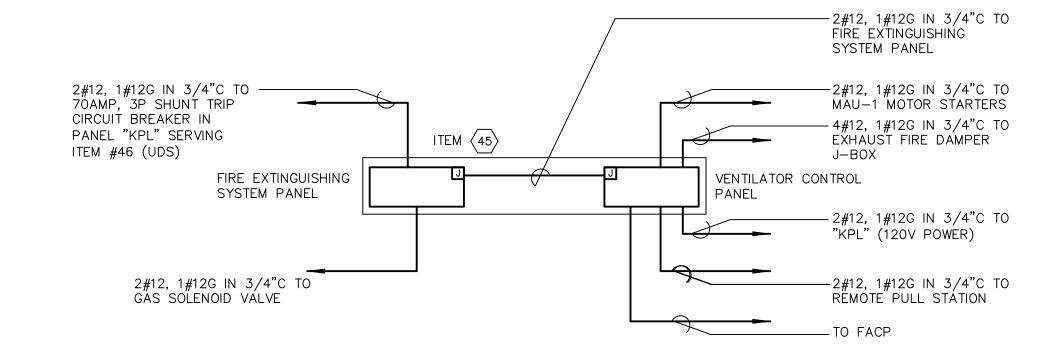
- REFER TO ZARALBAN & ASSOCIATES, INC. FOOD SERVICE DRAWINGS, FOR COMPLETE REQUIREMENTS OF FOOD SERVICE EQUIPMENT.
- 2. COORDINATE WITH FOOD SERVICE EQUIPMENT CONTRACTOR FOR EXACT REQUIREMENTS AND RESPONSIBILITIES. ALL FOOD SERVICE EQUIPMENT ASSOCIATED ELECTRICAL COMPONENTS (STARTERS, DISCONNECTS, POINTS OF CONNECTION, ETC.), NOT FURNISHED WITH EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FOOD SERVICE EQUIPMENT CONTRACTOR TO ASSURE INSTALLATION OF PROPER POWER OUTLETS TO RECEIVE EQUIPMENT PROVIDED POWER PLUGS.
- 4. UNLESS OTHERWISE INDICATED, ELECTRICAL CONTRACTOR SHALL ASSURE ALL ELECTRICAL POWER AND CONTROL CONNECTIONS AND PROPER OPERATION OF EQUIPMENT.
- 5. FURNISH AND INSTALL MECHANICALLY HELD TYPE CONTACTORS FOR POWER PROVISION TO EXHAUST HOOD ASSOCIATED FOOD SERVICE EQUIPMENT. EXCEPT FOR THE FIRE SUPPRESSION SYSTEM, FOOD SERVICE EQUIPMENT SHALL BE POWERED THROUGH CLOSED CONTACTS. PROVIDE CONTROL CONNECTION FROM CONTACTOR COIL TO FIRE ALARM CONTROL PANEL FOR CONTACT OPEN UNDER FIRE ALARM CONDITIONS. CONTACTOR RATINGS SHALL BE SAME AS EQUIPMENT PANELBOARD INSTALLED OVERCURRENT PROTECTIVE DEVICE.
- 6. PROVIDE POWER AND CONTROL CONNECTIONS OF FIRE SUPPRESSION SYSTEM. INTERFACE WITH FIRE ALARM CONTROL PANEL AND ASSURE PROPER OPERATION.
- 7. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A RACEWAY SYSTEM OF OUTLET BOXES AND CONDUITS FOR DATA AND TELEPHONE PROVISION. OUTLET BOX TYPE, (WALL, FLOOR) AND LOCATIONS AS INDICATED. EXTEND A 3/4" CONDUIT FROM EACH OUTLET BOX TO ACCESSIBLE CEILING PLENUM. TERMINATE CONDUITS IN JUNCTION BOXES ABOVE CEILING. TYPICALLY LOCATE JUNCTION BOXES AT NEAREST CORRIDOR ACCESSIBLE CEILING AREA. PROVIDE PULL WIRE IN COMPLETE RACEWAY SYSTEM.

ABBREVIATIONS & SYMBOLS:

- POWER CONNECTION TO EQUIPMENT TERMINAL
- AND/OR POINT OF CONNECTION.
- (VC) "VIA CONTACTOR" EXTEND POWER WIRING FROM PANEL CIRCUIT BREAKER, TO CONTACTOR, ON TO

F.H.M.S. FRACTIONAL HORSEPOWER MOTOR STARTER.

3P 3F 3 POLE 3 FUSE



VENTILATOR WITH EXTINGUISHING/ CONTROL PANELS

NO SCALE

- DETAIL NOTES :
- VERIFY HOOD EXTINGUISHING SYSTEM ELECTRICAL CONNECTIONS WITH KITCHEN CONSULTANT'S DRAWINGS PRIOR TO CONSTRUCTION.
- FIRE SUPPRESSION SYSTEM NOTES:
- PROVIDE FIELD WIRING FOR VENTILATOR CONTROL CABINET FURNISHED BY VENTILATOR MANUFACTURER.
- 2. PROVIDE 120V-1ø-20 AMP SERVICES (2-WIRE) TO VENTILATOR CONTROL PANEL.
- 3. PROVIDE 4-WIRES FROM VENTILATOR CONTROL PANEL TO EXHAUST FIRE DAMPER J-BOX LOCATED AT HOOD EXHAUST DUCT COLLAR. WIRING BETWEEN J-BOXES IN HOOD SHALL BE RECONNECTED. INSTALL 5-WIRES BETWEEN J-BOXES.
- 4. PROVIDE 2-WIRES FROM VENTILATOR CONTROL PANEL TO MAU-1 MAGNETIC STARTERS. FANS TO BE FURNISHED WITH 120V-10/60 HZ STARTER COILS.
- 5. PROVIDE 2-WIRES FROM HOOD LIGHTS J-BOX TO LIGHT SWITCH. WIRING BETWEEN J-BOXES FOR LIGHTING IN HOOD SHALL BE RECONNECTED BY DIVISION 16.

5TH WIRE A FIELD INSTALLED JUMPER WIRE.

- 6. PROVIDE 2-WIRES (N.O. DRY CONTACTS) FROM TERMINAL FS1 AND FS2 IN VENTILATOR CONTROL PANEL TO N.O. DRY CONTACTS IN FIRE EXTINGUISHING SYSTEM CABINET.
- 7. PROVIDE 120V-1ø-20 AMP SERVICE (2-WIRE) TO FIRE EXTINGUISHING SYSTEM CABINET.
- 8. PROVIDE 2-WIRES FROM FIRE EXTINGUISHING SYSTEM CABINET TO GAS VALVE, SHUNT-TRIP CIRCUIT BREAKER AND/OR CONTACTORS.
- 9. PROVIDE CONDUIT TO REMOTE PULL STATION BY FIRE PROTECTION CONTRACTOR. ALL WIRING TO CONTROLS.

REVISIONS

DATE MARK JANUARY 29, 2001

FEBRUARY 21, 2001

JUNE 22, 2001

DESCRIPTION
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
REVIEW OF PHASE II
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
RESUBMISSION OF PHASE II
DRAWINGS ISSUED FOR BIDDING
AND CONSTRUCTION PURPOSES



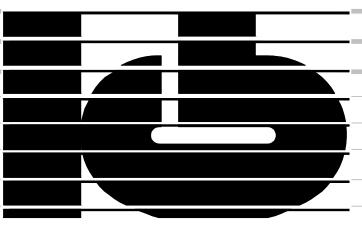
NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDINC
MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.00

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420



A DOCUMENTO

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050–2590 (860)

DRAWN BY: RLG
CHECKED BY:

MIDDLE AND HIGH SCHOOL KITCHEN SERVERY EQUIPMENT

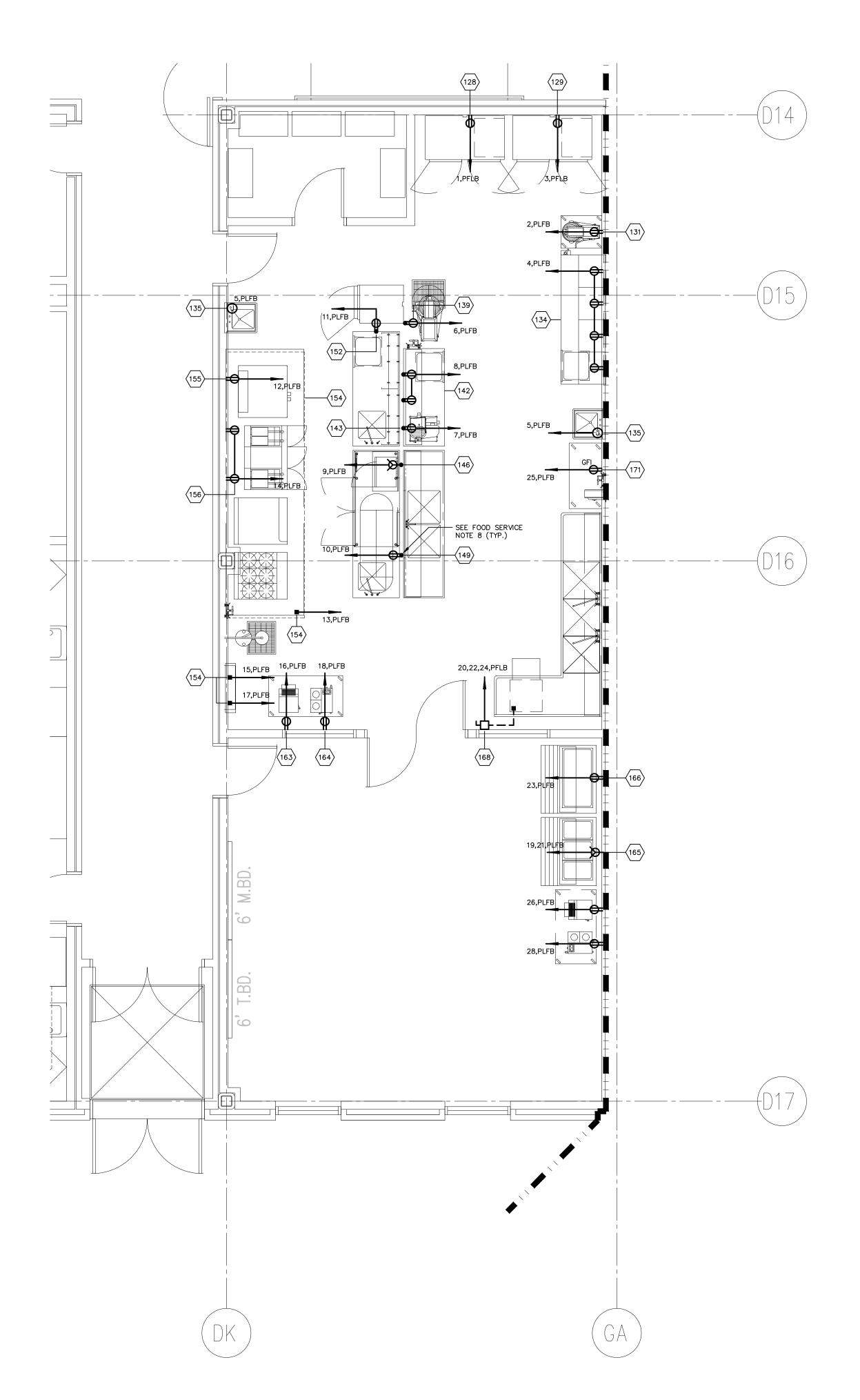
PROJECT NO.: 00048

DRAWING NO.:

E3.06

Drawing Name: ekitsched — 1 Drawn By: jwj Project and Directory: R:\2000155.00\Dwg
Plot Scale: 1/8 =1'-0 Plot Date: March 13, 2001 at 8:42:03 AM by VJM

DATE: JANUARY 20, 2001



					SCHE	DULE	OF	FOOD SI	ERVICE EQ	UIPME	ENT	
NUMBER	QUANTITY		SEPOWER (HP)	OWATTS (KW)				TYPE OF CONNECTION NEMA CONFIGURATION OR				
ITEM	QUA	DESCRIPTION	HOR	KILO	AMPS (A)	VOLTS (V) PHASE (Ø)	HARD WIRED	DISCONNECTING DEVICE	POWER FEEDERS	BRANCH BREAKER	SOURCE PANEL	REMARKS
128	1	REACH-IN REFRIGERATOR	1/2	-	10.4	120V-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	RECEPTACLE MOUNTED @ 84" AFF
129	1	REACH-IN FREEZER	3/4	-	14.9	120V-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	RECEPTACLE MOUNTED @ 84" AFF
131	1	20 QUART MIXING MACHINE (EXISTING)	1/2	-	9.2	120V-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	RECEPTACLE MOUNTED @ 54" AFF
134	1	PREPARATION TABLE WITH DRAWERS	-	-	(4) 20.0	120V-1ø	-	(4) 5-20R	2#12,1#12GND.3/4"C. (EACH)	20A-1P	SEE FLOOR PLANS	(4) CONVENIENCE OUTLETS MOUNTED @ 54" AFF
135	2	HAND SINKS	_	_	_	120V-1ø		_	2#12,1#12GND.3/4"C. (EACH)	20A-1P	SEE FLOOR PLANS	POWER FOR ELECTRONIC FAUCETS
139	1	30 QUART MIXING MACHINE (EXISTING)	1.0	_	12.0	120V-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
142	1	PREPARATION TABLE W/ DRAWER & OVERSHELF	-	-	(2) 20.0	120V-1ø	ı	(2) 5-20R	2#12,1#12GND.3/4"C. (EACH)	20A-1P	SEE FLOOR PLANS	(2) CONVENIENCE OUTLETS.
143	1	SLICING MACHINE (EXISTING)	1/3	-	3.9	120V-1ø	1	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
146	1	MICROWAVE OVEN	_	-	17.5	120V-1ø	ı	5-30R	2#10,1#10GND.3/4"C.	30A-1P	SEE FLOOR PLANS	-
149	1	UNDERCOUNTER REFRIGERATOR	1/3	-	7.6	120V-1ø	ı	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
152	1	MOBILE PROOFING CABINET	-	1.9	15.8	120V-1ø	ı	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
	1	VENTILATOR W/WASH & FIRE SYSTEMS	_	0.32	_	120V-1ø		SEE REMARKS	2#12,1#12GND.3/4"C.	20A-1P (VC) SEE REMARKS	SEE FLOOR PLANS	PROVIDE ON/OFF SWITCH FOR LIGHTING CONTROL. EXTEND ONLY LIGHTING AN PERIPHERAL POWER CIRCUITS THROUGH CONTACTOR. REFER TO FOOD SERVIC DRAWINGS FOR ELECTRICAL INTERWIRING.
154	1	VENTILATOR WASH CONTROL PANEL	-	_	20.0	120V-1ø		SEE REMARKS	2#12,1#12GND.3/4"C.	20A-1P (VC)	SEE FLOOR PLANS	REFER TO FOOD SERVICE DRAWINGS FOR ELECTRICAL INTERWIRING.
	1	FIRE SUPPRESSION SYSTEM	_	-	20.0	120V-1ø		SEE REMARKS	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	REFER TO FOOD SERVICE DRAWINGS FOR ELECTRICAL INTERWIRING.
155	1	SINGLE DECK CONVECTION OVEN	-	1.0	9.0	120V-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P (VC)	SEE FLOOR PLANS	-
156	1	DEEP FAT FRYER ASSEMBLY	_	0.5	1.0	120V-1ø	ı	5-20R	2#12,1#12GND.3/4"C.	20A-1P (VC)	SEE FLOOR PLANS	-
156	1	FILTERING SYSTEM	1/3	1.0	9.0	120V-1ø	ı	5-20R	2#12,1#12GND.3/4"C.	20A-1P (VC)	SEE FLOOR PLANS	-
163	1	ROTARY TOASTER	-	1.7	14.8	120V-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
164	1	12 CUP COFFEE BREWER W/ 3 WARMERS	-	1.7	14.1	120V-1ø	-	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
165	1	3 WELL HOT FOOD COUNTER	-	3.6	17.75	120/208V-1ø	-	L14-30R	3#10,1#10GND.3/4"C.	30A-2P	SEE FLOOR PLANS	-
166	1	3 WELL COLD FOOD COUNTER	1/4	-	8.0	120V-1ø	_	5-20R	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	-
168	1	UNDERCOUNTER DISHWASHER W/ BOOSTER HEATER	3/4	10.2	40.3	208V-3ø		60A-3P 3F	4#8,1#10GND.1"C.	50A-3P	SEE FLOOR PLANS	-
171	1	HOSE BIBB (N.I.K.E.C. BY P.C.)	-	_	20.0	120V-1ø	-	5-20R GFI	2#12,1#12GND.3/4"C.	20A-1P	SEE FLOOR PLANS	POWER REQUIRED FOR POWER WASHER

ABBREVIATIONS & SYMBOLS:

POWER CONNECTION TO EQUIPMENT TERMINAL AND/OR POINT OF CONNECTION.

(VC) "VIA CONTACTOR" EXTEND POWER WIRING FROM PANEL CIRCUIT BREAKER, TO CONTACTOR, ONTO

F.H.M.S. FRACTIONAL HORSEPOWER MOTOR STARTER.

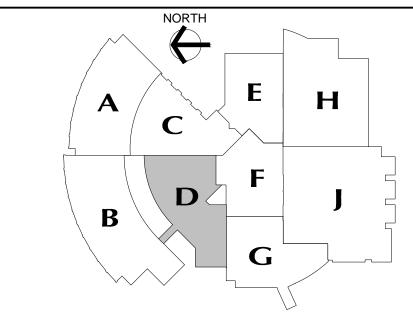
3P 3F 3 POLE 3 FUSE

FOOD SERVICE ELECTRICAL REQUIREMENTS:

- 1. REFER TO ZARALBAN & ASSOCIATES, INC. FOOD SERVICE DRAWINGS, FOR COMPLETE REQUIREMENTS OF FOOD SERVICE EQUIPMENT.
- 2. COORDINATE WITH FOOD SERVICE EQUIPMENT CONTRACTOR FOR EXACT REQUIREMENTS AND RESPONSIBILITIES. ALL FOOD SERVICE EQUIPMENT ASSOCIATED ELECTRICAL COMPONENTS (STARTERS, DISCONNECTS, POINTS OF CONNECTION, ETC.), NOT FURNISHED WITH EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FOOD SERVICE EQUIPMENT CONTRACTOR TO ASSURE INSTALLATION OF PROPER POWER OUTLETS TO RECEIVE EQUIPMENT PROVIDED POWER PLUGS.
- 4. UNLESS OTHERWISE INDICATED, ELECTRICAL CONTRACTOR SHALL ASSURE ALL ELECTRICAL POWER AND CONTROL CONNECTIONS AND PROPER OPERATION OF EQUIPMENT.
- 5. FURNISH AND INSTALL MECHANICALLY HELD TYPE CONTACTORS FOR POWER PROVISION TO EXHAUST HOOD ASSOCIATED FOOD SERVICE EQUIPMENT. EXCEPT FOR THE FIRE SUPPRESSION SYSTEM, FOOD SERVICE EQUIPMENT SHALL BE POWERED THROUGH CLOSED CONTACTS. PROVIDE OPEN UNDER FIRE ALARM CONDITIONS. CONTROL CONNECTION FROM CONTACTOR COIL TO FIRE ALARM CONTROL PANEL FOR CONTACT. CONTACTOR RATINGS SHALL BE SAME AS EQUIPMENT PANELBOARD INSTALLED OVERCURRENT PROTECTIVE DEVICE.
- 6. PROVIDE POWER AND CONTROL CONNECTIONS OF FIRE SUPPRESSION SYSTEM. INTERFACE WITH FIRE ALARM CONTROL PANEL AND ASSURE PROPER OPERATION.
- 7. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A RACEWAY SYSTEM OF OUTLET BOXES AND CONDUITS FOR DATA AND TELEPHONE PROVISION. OUTLET BOX TYPE, (WALL, FLOOR) AND LOCATIONS AS INDICATED. EXTEND A 3/4" CONDUIT FROM EACH OUTLET BOX TO ACCESSIBLE CEILING PLENUM. TEMINATE CONDUITS IN JUNCTION BOXES ABOVE CEILING. TYPICALLY LOCATE JUNCTION BOXES AT NEAREST CORRIDOR ACCESSIBLE CEILING AREA. PROVIDE PULL WIRE IN COMPLETE RACEWAY SYSTEM.
- 3. ALL RACEWAYS FOR POWER OUTLETS INSTALLED IN FREE SPACE SHALL BE WITH GALVANIZED THREADED RIGID CONDUIT AND CAST TYPE BOXES WITH THREADED HUBS. PROVIDE RIGID BRACING FROM FLOOR TO CONDUIT WITH 3/4" STEEL CHANNEL.

GENERAL POWER NOTES:

- REFER TO DRAWING #E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO START OF WORK.
- 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN PANELBOARD.
- 4. REFER TO DRAWING E2.01 AND E2.02 FOR ELECTRICAL POWER ONE—LINE
- 5. REFER TO DRAWING E2.03 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.
- 6. REFER TO DRAWING E2.03 FOR ELECTRICAL SPECIAL SYSTEMS RISER
- 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- 8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS, (T1 SERIES), FOR DATA/VOICE OUTLET LOCATIONS.



MAIN LEVEL KEY PLAN

REVISIONS

JANUARY 29, 2001
FEBRUARY 21, 2001

JUNE 22, 2001

DESCRIPTION

DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
REVIEW OF PHASE II
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
RESUBMISSION OF PHASE II
DRAWINGS ISSUED FOR BIDDING
AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT

06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

vanZelmHeywood&ShadfordInc

MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620

VZHS PROJECT NUMBER: 2000155.00



ASSOCIATES, INC.

ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361

FOOD MANAGEMENT LAB 1/4" SCALE POWER PLAN

PROJECT NO.: 00048

DRAWN BY: MSA CHECKED BY: BPCW

DRAWING NO.:

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

DATE: JANUARY 20, 2001

E3.07

TYPE	MANUFACTURER	CATALOG NO.	EQUAL MANUF.	LAMPS	<u>VOLTS</u>	MOUNTING	LIGHTING FI>	TYPE	MANUFACTURER	1
A	DAYBRITE	2P3GS332-36SL-277-1/21EB10I	EQUAL MANUF.	(3) F032T8	<u>VOL 15</u> 277	CEILING RECESSED	2'x4' FLUORESCENT TROFFER WITH 18 CELL SEMI SPECULAR PARABOLIC LOUVER, AND (2) ELECTRONIC	M	DAYBRITE	,
A1	DAYBRITE	2P3GS332-36SL-277-1/3EB10I		(3) F032T8	277	CEILING RECESSED	BALLASTS — (GRID) 2'x4' FLUORESCENT TROFFER WITH 18 CELL SEMI SPECULAR PARABOLIC LOUVER, AND (1) ELECTRONIC	N	McPHILBEN	940-
	DAYBRITE	*			277	CEILING RECESSED	BALLAST — (GRID) 2'x4' FLUORESCENT TROFFER WITH 18 CELL SEMI SPECULAR PARABOLIC LOUVER, AND (2) ELECTRONIC		DAYBRITE	
A2		2P3GS432-36SL-277-1/22EB10I		(4) F032T8			BALLASTS — (GRID) 2'x4' FLUORESCENT TROFFER WITH .125" ACRYLIC	'		СН
A3	DAYBRITE	2DPG232FS12-277-1/2EB10I		(2) F032T8	277	CEILING RECESSED	LENS, AND (1) ELECTRONIC BALLAST — (GRID) 2'x4' FLUORESCENT TROFFER WITH .125" ACRYLIC	Q	TIVLOI	HE
A4	DAYBRITE	2DPG332FS12-277-1/3EB10I		(3) F032T8	277	CEILING RECESSED	LENS, AND (1) ELECTRONIC BALLAST — (GRID)	R	DAYBRITE	
A5	DAYBRITE	2DPF332FS12-277-1/3EB10I		(3) F032T8		CEILING RECESSED	2'x4' FLUORESCENT TROFFER WITH .125" ACRYLIC LENS, AND (1) ELECTRONIC BALLAST — (FLANGE) 2'x4' FLUORESCENT TROFFER WITH .125" ACRYLIC	R1	DAYBRITE	HBO-
A6	DAYBRITE	2DWLG432FA12-277-1/4EB10I		(4) F032T8	277	CEILING RECESSED	GASKETED LENS, ALUMINUM DOOR, AND (1) ELECTRONIC BALLAST (GRID)—(KITCHEN)	R2	DAYBRITE	HE
								R3	DAYBRITE	нво-
								S	DAYBRITE	8U:
В	DAYBRITE	2P3GS331U1-33SL277-1/21EB10I		(3) F031/T-8 1-5/8"U	277	CEILING RECESSED	2'x2' FLUORESCENT TROFFER WITH 9 CELL SEMI SPECULAR PARABOLIC LOUVER, AND (2) ELECTRONIC BALLASTS — (GRID)	S1	DAYBRITE	8U:
B1	DAYBRITE	2P3GS331U1-33SL277-1/3EB10I		(3) F031/T-8 1-5/8"U	277	CEILING RECESSED	2'x2' FLUORESCENT TROFFER WITH 9 CELL SEMI SPECULAR PARABOLIC LOUVER, AND (1) ELECTRONIC BALLAST — (GRID)	S2	DAYBRITE	800
B2	DAYBRITE	2DG331U1FS12-277-1/3EB10I		(3) F031/T-8 1-5/8"U	277	CEILING RECESSED	2'x2' FLUORESCENT TROFFER WITH .125" ACRYLIC LENS, AND (1) ELECTRONIC BALLAST — (GRID)	S3	DAYBRITE	8U
В3	DAYBRITE	2DWLG331U1FA12-277-1/3EB10I		(3) F031/T-8 1-5/8"U	277	CEILING RECESSED	2'x2' FLUORESCENT TROFFER WITH .125" ACRYLIC LENS, GASKETED, ALUMINUM DOOR, W/ (1) ELECTRONIC BALLAST — (GRID)—(KITCHEN)	T1	CAPRI	S
B4	DAYBRITE	2DF331U1FS12-277-1/3EB10I		(3) F031/T-8 1-5/8"U	277	CEILING RECESSED	2'x2' FLUORESCENT TROFFER WITH .125" ACRYLIC LENS, W/ (1) ELECTRONIC BALLAST — (FLANGE)	U	LEDALITE	2818-
								U1	PMC	SCCS-I-
С	DAYBRITE	1P3GS232-26SL-277-1/2EB10I		(2) F032T8	277	CEILING RECESSED	1'x4' FLUORESCENT TROFFER WITH 12 CELL SEMI SPECULAR PARABOLIC LOUVER, AND (1) ELECTRONIC	w	NOT USED	
C1	DAYBRITE	V2WAE232-277-1/2EB10I		(2) F032T8	277	CEILING SURFACE	BALLAST — (GRID) 1'x4' FLUORESCENT TROFFER WITH .125" ACRYLIC LENS, GASKETED LENS AND DOOR, RATED FOR WET	Y	WILLIAMS	20
C2	DAYBRITE	IDG232FS12-277-1/2EB10I		(2) F032T8	277	CEILING RECESSED	LOCATION AND (1) ELECTRONIC BALLAST 1'x4' FLUORESCENT TROFFER WITH .125" ACRYLIC	Z	ECLIPSE	330-TTT-
	INFINITY	PH75-213Q-EB-MWT			277	CEILING RECESSED	LENS, AND (1) ELECTRONIC BALLAST — (GRID) 7" DIA. DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, WHITE	AA	KRAMER	KL122X4
D		277-BH PH75-218Q-EB-MWT		(2) 13 WATT			TRIM RING AND ELECTRONIC BALLAST 7" DIA. DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, WHITE	AA	KKAMEK	KL122X4
D1	INFINITY	277-ВН		(2) 18 WATT	277	CEILING RECESSED	TRIM RING AND ELECTRONIC BALLAST 7" DIA. DOWNLIGHT WITH CLEAR ALZAK REFLECTOR. WHITE			360-2
D2	INFINITY	PVSL68-118Q-EB-MWT 277-BH		(1) 18 WATT	277	CEILING RECESSED	TRIM RING AND ELECTRONIC BALLAST SHOWER LIGHT — RATED FOR WET LOCATION 10" DIA. DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, WHITE	ВВ	ALS	360-3
D3	INFINITY	PHRL10-232T-EB-277-BH		(2) 32 WATT TT	277	CEILING RECESSED		BB1	ALS	300-0
D4	INFINITY	WWPL75-218Q-EB-MWT 277-BH		(2) 18 WATT QUAD	277	CEILING RECESSED	7" DIA. WALLWASH DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, WHITE TRIM RING AND ELECTRONIC BALLAST	СС	DAVIS MULLER	S5510
D5	INFINITY	PH75-218Q-EB-MWT-277-BH-DIM		(2) 18 WATT PL	277	CEILING RECESSED	8" NOMINAL APERTURE DOWNLIGHT WITH CLEAR ALZAK REFLECTOR WHITE TRIM RING AND LUTRON HI-LUME DIMMING BALLAST	CC1	NEMO	
D6	INFINITY	PHRL75-218Q-EB-277-BH-ODEG		(2) 18 WATT PL	277	CEILING RECESSED	8" NOMINAL APERTURE LENSED DOWNLIGHT WITH WHITE TRIM RING AND COLD WEATHER BALLAST RATED FOR DAMP LOCATION	DD	LEDALITE	8715-T2
D7	INFINITY	PH75-242T-EB-MWT-277-BH		(2) 42 WATT TT	277	CEILING RECESSED	7" DIA. DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, WHITE TRIM RING AND ELECTRONIC BALLAST.			
D8	INFINITY	PHRL10-232T-EB-277-BH W/ REMOTE MTD BATTERY BALLAST		(2) 32 WATT TT	277	CEILING RECESSED	10" DIA. DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, WHITE TRIM RING AND ELECTRONIC BALLAST. <u>10" LENSED WET</u> LOCATION DOWNLIGHT — 7" MAXIMUM DEPTH. PROVIDE EMERG. BATTERY BALLAST FOR REMOTE MOUNTING.	GG	PMC	EF
D9	INFINITY	PHRL75-218Q-EB-277-BH		(2) 18 WATT PL	277	CEILING RECESSED	7" LENSED WET LOCATION DOWNLIGHT.	GG1	РМС	ER
D10	INFINITY	PHC11/75-218Q-EB- 277-MWT-BH-SP		(2) 18 WATT PL	277	CEILING RECESSED	SURFACE CYLINDER MODIFIED TO MOUNT IN METAL PANEL CEILING. PROVIDE BAR HANGERS AND OVERSIZED TRIM FINISH BY ARCHITECT. CONTRACTOR TO COORDINATE WIRING & MOUNTING WITH ARCHITECT.	НН	TUBE LIGHTING	SRF
D11	INFINITY	PH75-232T-EB-MWT-277-BH		(2) 32 WATT TT	277	CEILING RECESSED	7" DIA DOMANIJOHT MITH OLFAD ALZAK DEFLECTOR	SA	GARDCO	G18 BLP/
F	LEDALITE	8816-T02-WN-XX-2-2-E-W/A2		(2) F032T8 PER 4' SECTION	277	SUSPENDED AIRCRAFT CABLE	INDIRECT/ DIRECT LINEAR FLUOR. FIXTURE WITH # OF BALLASTS REQUIRED FOR NORMAL/EMERG. DUAL LEVEL SWG. REFER TO FLOOR PLANS FOR LENGTHS.	SA1	GARDCO	G18 BLP/S
F1	LEDALITE	8816-T03-WN-XX-2-2-E-W/A2		(3) F032T8 PER 4' SECTION	277	SUSPENDED AIRCRAFT CABLE	INDIRECT/ DIRECT LINEAR FLUOR. FIXTURE WITH # OF BALLASTS REQ'D FOR NORMAL/EMERG. DUAL LEVEL SWG. REFER TO FLOOR PLANS FOR LENGTHS	SB	GARDCO	G18- BLP/
F2	LEDALITE	9265-T02-LN-XX-3-2-E-W/A2		(2) F032T8 PER 4' SECTION	277	SUSPENDED AIRCRAFT CABLE	INDIRECT/ DIRECT LINEAR FLUOR. FIXTURE WITH # OF BALLASTS REQ'D FOR NORMAL/EMERG. DUAL LEVEL SWG. REFER TO FLOOR PLANS FOR LENGTHS.	SC	GARDCO	G13- BLP-SP
F3	NOT USED						SWG. REFER TO FLOOR PLANS FOR LENGTHS.	SD	GARDCO	G18 BLP/1
G	EDISON PRICE	DL-38/40/11/COL/MOD 20DEG		(1) 250 WATT PAR38	120	CEILING RECESSED	ADJUSTABLE AUDITORIUM HOUSE DOWN LIGHT. 20 DEGREE CUT REFLECTOR.	SE	EMCO	BS8
G1	EDISON PRICE	DL-38/40/11/COL/MOD 20DEG		(1) 150 WATT PAR38	120	CEILING RECESSED	ADJUSTABLE AUDITORIUM HOUSE DOWN LIGHT. 20 DEGREE CUT REFLECTOR.		EMCO	BS8
G2	_	_		_	_	_	DOWNLIGHT AT AUDITORIUM FRONT SCREEN	SF	HADCO	
н	DAYBRITE	TIF232-PP-277-1/4-EB10I/		(2) F032T8 PER	277	SURFACE	8' INDUSTRIAL FLUORESCENT LIGHT FIXTURE WITH		5	
		FL-123/(2)FL173 IF232-PP-277-1/2-EB10I/		4' SECTION			WIREGUARD. (1) ELECTRONIC BALLAST 4' INDUSTRIAL FLUORESCENT LIGHT FIXTURE WITH			ZURICH-1
H1	DAYBRITE	FL-123/FL173		(2) F032T8	277	SURFACE	WIREGUARD. (1) ELECTRONIC BALLAST 8' NARROW FLUORESCENT LIGHT FIXTURE. (1)	OA	ECLIPSE	W/ REMO
H2	DAYBRITE	TN132-277-1/2-EB10I		(2) F032T8	277	SURFACE	ELECTRONIC BALLAST (DISPLAYS)	ОВ	DAYBRITE	
H3	DAYBRITE	N132-277-1/1-EB10I		(1) F032T8	277	SURFACE	4' NARROW FLUORESCENT LIGHT FIXTURE. (1) ELECTRONIC BALLAST (DISPLAYS)	ос	McPHILBEN	
H4	WILLIAMS	20-4-232-A-EB2		(2) F032T8	277	SURFACE	4' WALL MOUNTED WRAPAROUND FLUORESCENT LIGHT FIXTURE. (1) ELECTRONIC BALLAST DIRECT LINEAR FLUOR. WALL SLOT FIXTURE WITH # OF			
H5	РМС	SPS-RPL-T-2/OCT-X- PBL-WHT-277-EB		(2) F032/4 FT	277	CEILING RECESSED				<u> </u>
H6	DAYBRITE	T1F-232-PP-120-1/4- EB10I/(2)FL173		(4) F032T8	120	SURFACE	8' INDUSTRIAL FLUORESCENT LIGHT FIXTURE WITH WIREGUARD. (1) ELECTRONIC BALLAST			
H7	DAYBRITE	1F-232-PP-120-1/2-EB10I/FL173		(2) F032T8	120	SURFACE	4' INDUSTRIAL FLUORESCENT LIGHT FIXTURE WITH WIREGUARD. (1) ELECTRONIC BALLAST	X	HIGHLITES	ZE
							(,, ===================================			
J	TRE CILUCE (IL AMERICA)	SQUARE 42-E-277		(2) 24 WATT BIAX	277	WALL SURFACE	16" DECORATIVE WALL SCONCE WHITE POLCARB. FRONT & SIDE LENS MATTE ALUMINUM FINISH.	X1	HIGHLITES	+
K	GARDCO	101-FT-100MH-277-SC		(1) 100W MH	277	WALL SURFACE	INDIRECT DECORATIVE METAL HALIDE WALL BRACKET — CAST ALUMINUM	X2	HIGHLITES	+
K1	GARDCO	101-FT-175MH-277-SC		(1) 175W MH	277	WALL SURFACE	INDIRECT DECORATIVE METAL HALIDE WALL BRACKET — CAST ALUMINUM			+
K2	GARDCO	141-FT-250MH-277-SC		(1) 250W MH	277	WALL SURFACE	INDIRECT DECORATIVE METAL HALIDE WALL BRACKET — CAST ALUMINUM	X3	HIGHLITES	
L	LIGHTECH	38102-T		200W A-23	120	CEILING RECESSED	DARKROOM LIGHT FIXTURE — DUAL SOURCE (WHITE	AOR	MCPHILBEN	30VL-1-
				15W A-15			LIGHT/SAFE LIGHT	EXP	APPLETON	

<u>TYPE</u>	MANUFACTURER	CATALOG NO.	EQUAL MANUF.	<u>LAMPS</u>	<u>VOLTS</u>	MOUNTING	<u>REMARKS</u>
М	DAYBRITE	VFS-09C-D1NWPW		(2) PL9W	120	WALL MOUNTED	ELEVATOR PIT UTILITY COMPACT FLUORESCENT LIGHT FIXTURE.
N	McPHILBEN	940-D-13Q-F-LV-120-SC		(1)13W PLC	120	STEP RECESSED	RECESSED AUDITORIUM STEP LIGHT FOR EGRESS.
Р	DAYBRITE	CH232B-120-1/2EB10I		(2) FO32/T8	120	WALL MOUNTED	FLUORESCENT WALL MOUNTED BED LIGHTING UNIT (1) ELECTRONIC BALLAST
Q	TIVLOI	2X2-LB100-CPW MG/LG1433		G25W	120	WALL MOUNTED	DECORATIVE MIRROR GLOBE LIGHT FIXTURE W/ WIREGUARDS. VERIFY LENGTHS WITH ARCH. DWGS.
R	DAYBRITE	HBO-320P-MT-GL16/ WGG16-HP27/PB		(1) MP320/C/BU	277	CEILING PENDANT	GYMNASIUM HI-BAY W/WIREGUARD & POWERHOOK
R1	DAYBRITE	HBO-320P-MT-QTD-GL16/ WGG16-HP27/PB		(1) MP320/C/BU (1) Q250/CL/DC	277	CEILING PENDANT	GYMNASIUM HI-BAY W/QUARTZ RE-STRIKE, WREGUARD & POWERHOOK
R2	DAYBRITE	HBO-400P-MT-GL16/ WGG16-HP27/PB		(1)MP400/C/BU	277	CEILING PENDANT	AUXILIARY GYMNASIUM HI-BAY W/WIREGUARD & POWERHOOK
R3	DAYBRITE	HBO-400P-MT-QTD-GL16/ WGG16-HP27/PB		(1)MP400/C/BU (1)Q250CL/DC	277	CEILING PENDANT	AUXILIARY GYMNASIUM HI-BAY W/QUARTZ RE-STRIKE, WIREGUARD & POWERHOOK
s	DAYBRITE	8UC132S-120-1/1EB10I		(1) F032T8	120	SURFACE	4' LENGTH FLUORESCENT UNDERCABINET LIGHT
 S1	DAYBRITE	8UC125S-120-1/1EB10I		(1) F025T8	120	SURFACE	FIXTURE 3' LENGTH FLUORESCENT UNDERCABINET LIGHT
							FIXTURE 2' LENGTH FLUORESCENT UNDERCABINET LIGHT
S2	DAYBRITE	8UC117-S-120-1/1EB10I		(1) F017T8	120	SURFACE	FIXTURE
S3	DAYBRITE	8UC132S-277-1/1EB10I		(1) F017T8	277	SURFACE	4' LENGTH FLUORESCENT UNDERCABINET LIGHT FIXTURE
T1	CAPRI	ST4/KA100/KT4220		50W PAR20	120	CEILING SURFACE	INCANDESCENT TRACK LIGHTING SYSTEM. PROVIDE # OF HEADS & LENGTHS AS SHOWN IN PLANS.
U	LEDALITE	2818-T01-EN-08-1-1-E-W		(2) F032 PER 4' SECTION	277	COVE MOUNTED SURFACE	8' FLUORESCENT LINEAR COVE LIGHTING FIXTURE (1) ELECTRONIC BALLAST (MEDIA CENTER)
U1	PMC	SCCS-I-P-2/OCT-XX-BLK-MOD		(2) F032/4 FT	277	PENDANT	LINEAR WALL WASHER. COORDINATE MOUNTING WITH ARCHITECTURAL DETAILS.
w	NOT USED						
Υ	WILLIAMS	20-4-232-A-EB2LH		(2) F032T8	277	WALL SURFACE	4' WALL MOUNTED WRAPAROUND.
Z	ECLIPSE	330-TTT-(2)42-277-EB-2316-WHT		(2) 42WATT TT	277	CEILING SURFACE	12" SQUARE HIGH ABUSE LENS.
AA	KRAMER	KL122X42PLT/250MH-LBB-P-SPX		(2)42W TT UP (1)MH250 DN	277	PENDANT	12" DIAMETER CYLINDER WITH REGRESSED FRESNEL LENS & BLACK BAFFLE
BB	ALS	360-26-(6)F39BX/(1)F212D- P-MWAD		(6)F39BIAX (1)F21 2D	277	PENDANT	26" DIAMETER DECORATIVE PENDANT WITH 45 DEGREE SWIVEL CANOPY, CURVED MOLDED LENS WITH PERFORATED BOTTOM. VERIFY FINISH &
BB1	ALS	PERF-FINISH 360-33-(8)F39BX/(1)F282D- AC-MWAD		(8)F39BIAX	277	PENDANT	MOUNTING HEIGHT. DUAL CIRCUITED. (MEDIA CENTER) 33" DIAMETER DECORATIVE PENDANT WITH AIRCRAFT CABLE & 45 DEGREE SWIVEL CANOPY, CURVED MOLDED LENS WITH PERFORATED BOTTOM. VERIFY FINISH & MOUNTING HEIGHT.
сс	DAVIS MULLER	PERF-FINISH S5510-2-(2)Q26-SNP-2-BA		(1)F28 2D (2) 26W DTT	277	WALL SURFACE	DUAL CIRCUITED. (MIDDLE SCHOOL CAFE) 12" SQUARE DECORATIVE CAST ALUMINUM WALL SCONCE WITH PERFORATED SATIN ALUMINUM FINISH.
							(MEDIA CENTER) 12" SQUARE DECORATIVE GLASS WALL SCONCE.
CC1	NEMO	COLUMBA MAJOR		(1) Q200T3	120	WALL SURFACE	CHROME FINISH. (AUDITORIUM) INDIRECT/DIRECT LINEAR FLUORESCENT WITH PARABOLIC LOUVER DOWN AND DUST COVER UP. PROVIDE LENGTHS AS
DD	LEDALITE	8715-T22-PF-XX-3-2-E-C/WM		(4) F032/4 FT	277	WALL SURFACE	SHOWN ON PLANS & # OF BALLASTS AS REQUIRED FOR EM/NORMAL WIRING. FINISH BY ARCHITECT. (STAIRS)
GG	PMC	ER6-D-P/ROT-1/0CT -12-AL-CA-277		(3) F032	277	PENDANT	12' ANGLED ROTATABLE DIRECT LINEAR TUBE LIGHT. VERIFY MOUNTING HEIGHT.
GG1	РМС	ER6-D-P/ROT-1/0CT -16-AL-CA-277		(4) FO32	277	PENDANT	16' ANGLED ROTATABLE DIRECT LINEAR TUBE LIGHT. VERIFY MOUNTING HEIGHT. LINEAR LOW VOLTAGE LIGHT WITH CLEAR LENS. PROVIDE
нн	TUBE LIGHTING	SRF-2-168F-BK-CL/XX		INCLUDED	120	NICHE SURFACE	LINEAR LOW VOLTAGE LIGHT WITH CLEAR LENS. PROVIDE LENGTHS AS SHOWN AROUND PROSCENIUM SCREEN. PROVID # OF TRANSFORMERS AND FEEDS AS REQUIRED. REMOTE MOUNT IN AN ACCESIBLE LOCATION.
SA	GARDCO	G18-2-Q-250MH-277- BLP/SSS-20-4-11-D2-BLP		(2)MH250/HOR	277	20' POLE	_
SA1	GARDCO	G18-2-Q-250MH-277- BLP/SSS-20-4-11-D2-BLP		(2)MH250/HOR	277	20' POLE	-
SB	GARDCO	G18-1-3XL-250MH-277- BLP/SSS-20-4-11-D1-BLP		(1)MH250/HOR	277	20' POLE	-
sc	GARDCO	G13-1-3XL-175MH-277- BLP-SPA/SSS-12-4-11-D1-BLP		(1)MH175/HOR	277	12' POLE	-
SD	GARDCO	G18-1-Q-250MH-277- BLP/SSS-20-4-11-D1-BLP		(1)MH250/HOR	277	20' POLE	_
SE	EMCO	BS8-70MH-277-BLP-L		(1)MH70	277	42" BOLLARD	_
SE1	EMCO	BS8-70MH-277-BLP-L		(1)MH70	277	42" BOLLARD	_
SF	HADCO	I3GH70HE-277		(1)MH70	277	IN GROUND	WITH ROCK GUARD
	HADOO	ISSITIONE 277		(1)M1170		IIV GROONE	WITH ROOK CONICD
		ZURICH-TTT-(2)32-277-EB-AL-CC			 		12" SQUARE DECORATIVE EXTERIOR WALL SCONCE
OA	ECLIPSE	W/ REMOTE MTD BATTERY BALLAST		(2) 32W TTT	277	WALL SURFACE	WITH GUARD. FINISH BY ARCHITECT. PROVIDE WITH EMERG. BATTERY BALLAST FOR REMOTE MOUNTING.
OB	DAYBRITE	CSH-32D-277		(2) 32W TTT	277	WALL SURFACE	EXTERIOR WALL PACK.
ОС	McPHILBEN	43A-9253P		(1) MH100	277	CEILING RECESSED	LOADING DOCK AREA CANOPY LIGHT.
							EXIT LIGHT WITH DIE—CAST ALUMINUM HOUSING, RED LETTERS — LETTER HEIGHT AS PER AUTHORITY HAVING JURISDICTION — SHADED QUADRANTS INDICATE FACE SIDE — PROVIDE SIDE DIRECTIONAL
X	HIGHLITES	ZBPN-CLED-X-R-W		LED	277VAC	WALL/CEILING MOUNTED	ARROWS AS INDICATED ON FLOOR PLANS Main
							 INDICATES SINGLE FACE CEILING MOUNTED
				(3) 8 OW CVC T	277140 /	WALL	
X1	HIGHLITES	HL-90		(2) 8.0W 6VOLT HALOGEN HEADS	277VAC/ 6VDC	SURFACE	WALL PACK LIGHT FIXTURE
X2	HIGHLITES	HSU-2-FR		(2)8.0W 6VOLT HALOGEN LAMPS	277VAC/ 6VDC	CEILING RECESSED	RECESSED EMERGENCY LIGHT SQUARE UNIT
Х3	HIGHLITES	XC-R-5		(2)4.0W 6VOLT HALOGEN LAMPS	277VAC/ 6VDC	CEILING RECESSED	RECESSED TWIN HEAD EMERGENCY LIGHT UNIT
AOR	MCPHILBEN	30VL-1-P-1-12/27-W-RW-AOR		LED	277	WALL SURFACE	AREA OF REFUGE INDICATOR LIGHT WITH BATTERY PACK.
					+	 '	

REVISIONS

DATE JANUARY 29, 2001

FEBRUARY 21, 2001

JUNE 22, 2001

DESCRIPTION
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
REVIEW OF PHASE II
DRAWINGS ISSUED FOR STATE
DEPARTMENT OF EDUCATION
RESUBMISSION OF PHASE II
DRAWINGS ISSUED FOR BIDDING
AND CONSTRUCTION PURPOSES



NEW RHAM
HIGH SCHOOL
WALL STREET
HEBRON, CONNECTICUT
06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEYWOOD&SHADFORDINC
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ARCHITECTS

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DRAWN BY: SCALE: CHECKED BY:

ELECTRICAL LIGHT FIXTURE SCHEDULE

PROJECT NO.: 00048

DRAWING NO.:

DATE: JANUARY 20, 2001

E4.01

			MOTO	OR CIF	RCI II.	TSC	HF	DULE				
EQUIPMENT	CIRCUIT/ SOURCE PANEL	O.C.P. DEVICE	FEFNER	LOCAL DISC. SWITCH	DISC.			TARTER LOCATION	L HP/KW	OAD PH	VOLT	REMARKS
NOTE: RFF			ANCH CIRCUIT DESIGNATIONS		!		!					IICAL DRAWING
CUH'S FCU'S	REFER TO FLOOR PLANS REFER TO FLOOR PLANS	20/1	2#12, 1#12GND., 3/4"C.	FURNISHED V	MITH UNIT	FU	RNISHE	ED WITH UNIT	_	1	120 120	NOTE #3
UH'S	REFER TO FLOOR PLANS	20/1	2#12, 1#12GND., 3/4"C. 2#12, 1#12GND., 3/4"C.	FURNISHED \	WITH UNIT	FU	RNISHE	ED WITH UNIT	_	1	120	NOTE #3
UV'S	REFER TO FLOOR PLANS	20/1	2#12, 1#12GND., 3/4"C.	FURNISHED \	MITH UNIT	FU	RNISHE	ED WITH UNIT	_	1	120	NOTE #3
FSF-B1 FSF-B2	49,51,53,MP2B2 44,46,48,MP2B2	15/3 15/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	2.0A 2.0A	FVNR FVNR	00	ROOF ROOF	1/2 1/2	3 3	480 480	NOTE #4
FSF-B3	55,57,59,MP2B2	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	2.0A	FVNR	00	ROOF	1/2	3	480	NOTE #4
FSF-B4 FSF-B5	50,52,54,MP2B2 61,63,67,MP2B2	15/3 15/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	2.0A 2.0A	FVNR FVNR	00	ROOF ROOF	1/2 1/2	3	480 480	NOTE #4 NOTE #4
FSF-B6 FSF-B7	56,58,60,MP2B2 67,69,71,MP2B2	15/3 15/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	2.0A 2.0A	FVNR FVNR	00	ROOF ROOF	1/2 1/2	3	480 480	NOTE #4
EF-A1	14,LP2A1	20/1	" ' " ' '	THERM.SWITCH		_	00	ROOF	1/4	1	120	NOTE #4&13
EF-A2 EF-A3	25,27,29,MP2A2 16,LP2A1	15/3 20/1	3#12, 1#12GND., 3/4"C. 2#12, 1#12GND., 3/4"C.	30A-3P3F THERM.SWITCH	3.0A –	FVNR –	0	ROOF ROOF	3/4 1/6	3 1	480 120	NOTE #4 NOTE #4&13
EF-B1 EF-B2	28,LP2B1 30,LP2B1	20/1 20/1	" "	THERM.SWITCH		_	00	ROOF ROOF	1/4 1/4	1	120 120	NOTE #4&13
EF-B3	1,3,5,MP2B3	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	4.0A	FVNR	00	ROOF	1	3	480	NOTE #4
EF-B4 EF-B5	2,4,6,MP2B3 7,9,11,MP2B3	15/3 15/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	4.0A 4.0A	FVNR FVNR	00	ROOF ROOF	1	3	480 480	NOTE #4
EF-B6 EF-B7	8,10,12,MP2B3 13,15,17,MP2B3	15/3 15/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	4.0A 4.0A	FVNR FVNR	00	ROOF ROOF	1	3 3	480 480	NOTE #4
EF-B8	14,16,18,MP2B3	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	4.0A	FVNR	00	ROOF	1	3	480	NOTE #4
EF-B9 EF-B10	19,21,23,MP2B3 20,22,24,MP2B3	15/3 15/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	4.0A 4.0A	FVNR FVNR	00	ROOF ROOF	1	3	480	NOTE #4
EF-B11 EF-B12	25,27,29,MP2B3 13,15,19,MP1B1	15/3 15/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	2.0A 2.0A	FVNR FVNR	00	ROOF ROOF	1/2 1/2	3	480 480	NOTE #4
EF-B13 EF-B14	18,LP1B1 32,LP2B1	20/1	2#12, 1#12GND., 3/4"C.	THERM.SWITCH		_ _	00	ROOF ROOF	1/4	1	120 120	NOTE #4&13
EF-B15	26,28,30,MP2B3	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	4.0A	FVNR	00	ROOF	1	3	480	NOTE #4
SPRAY BOOTH	36,38,LP1J2	20/2	2#12, 1#12GND., 3/4"C.	30A-2P2F	12.0	FVNR	00	STOR. 1948	1	1		NOTE #14
EF-D1 EF-D2	26,LP1D2 28,LP1D2	20/1 20/1	" ' " ' '	THERM.SWITCH THERM.SWITCH		-	-	ROOF ROOF	1/30 1/4	1	120 120	NOTE #4&13
EF-D3 EF-D4	27,LP1D2 26,LP1D2	20/1	2#12, 1#12GND., 3/4"C.	THERM.SWITCH		_	_	ROOF ROOF	1/4	1	120 120	NOTE #4&13
EF-D5	20,LP1D1	20/1 20/1	2#12, 1#12GND., 3/4"C.	THERM.SWITCH	-	_	_	ROOF	1/4	1	120	NOTE #4&13
EF-D6 EF-D7	30,LP1D2 32,LP1D2	20/1	, ,	THERM.SWITCH THERM.SWITCH		<u> </u>	_	ROOF ROOF	1/15 1/4	1	120 120	NOTE #4&13
EF-E1 EF-E2	27,LP1E1 28,LP1E1	20/1 20/1	2#12, 1#12GND., 3/4"C. 2#12, 1#12GND., 3/4"C.	THERM.SWITCH THERM.SWITCH		_ _	_	ROOF ROOF	1/30 1/6	1		NOTE #4&13
EF-E3	29,LP1E1	20/1	2#12, 1#12GND., 3/4"C.	THERM.SWITCH	-	_	_	ROOF	1/6	1	120	NOTE #4&13
EF-F1	27,LP1J1	20/1	2#12, 1#12GND., 3/4"C.	THERM.SWITCH	_	_	_	ROOF	1/60	1	120	NOTE #4&13
EF-G1 EF-G2	30,KPL2 32,KPL2	20/1 20/1	" " , "	THERM.SWITCH THERM.SWITCH		_ _	_	ROOF ROOF	1/4 1/4	1	120 120	NOTE #4&13
EF-G3 EF-G4	10,LPB1 11,LPB1	20/1 20/1	, ,	THERM.SWITCH		_	_	ROOF ELEV. MACH. 0108	1/4	1	120 120	NOTE #4&13
EF-G5	43,45,47,MPB1	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	3.0A	FVNR	00	CHILLER RM 0105	3/4	3	480	NOTE #4
EF-G6 SF-G1	26,28,30,MPB1 44,46,48,MPB1	15/3 15/3	3#12, 1#12GND., 3/4"C. 2#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	2.0A 3.0A	FVNR FVNR	00	ELEC. RM 0102 CHILLER RM. 0105	1/2 3/4	3	480 480	NOTE #4
EF-H1 EF-H2	33,LP1H1A 35,LP1H1A	20/1 20/1	" " "	THERM.SWITCH		_	_	ROOF ROOF	1/6 1/4	1	120 120	NOTE #4&13
FSF-J1	13,15,17,MP1J2	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	2.0A	FVNR	00	ROOF	1/4	3	480	NOTE #4
FSF-J2	14,16,18,MP1J2	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	2.0A	FVNR	00	ROOF	1/2	3	480	NOTE #4
EF-J1	25,27,29,MP1J3	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	2.0A			ROOF	1/2	3	480	NOTE #4
EF-J2 EF-J3	30,LP1J3 32,LP1J3	20/1 20/1	" " '	THERM.SWITCH		_	_	ROOF ROOF	1/30 1/30	1	120 120	NOTE #4&13
EF-J4	34,LP1J3	20/1	2#12, 1#12GND., 3/4"C.	THERM.SWITCH	_	_	_	ROOF	1/4	1	120	NOTE #4&1
EF-J5 EF-J6	36,LP1J3 19,21,23,MP1J3	20/1 15/3	2#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	THERM.SWITCH -	_ _	– VFD	_	ROOF MECH RM 2402	1/4 3	3	120 480	NOTE #4&13
EF-J7 EF-J8	26,LP1J1 22,LP1J2	20/1 20/1	2#12, 1#12GND., 3/4"C. 2#12, 1#12GND., 3/4"C.	THERM.SWITCH THERM.SWITCH		_	_	ROOF ROOF	1/30 1/3	1		NOTE #4&13
EF-J9 EF-J10	24,LP1J2 26,LP1J2	20/1	2#12, 1#12GND., 3/4"C.	THERM.SWITCH	-	_	_	ROOF ROOF	1/4	1	120	NOTE #4&13
EF-J11	26,LP1J2 28,LP1J2	20/1		THERM.SWITCH		_ _	_	ROOF	1/4	1		NOTE #4&1
E1-J12 EF-J13	30,LP1J2 27,LP1J2	20/1		THERM.SWITCH THERM.SWITCH		_	_	ROOF ROOF	1/4 1/4	1	120 120	NOTE #4&13
EF-J14 EF-J15	29,LP1J2 31,LP1J2	20/1	" " ,	THERM.SWITCH			_	ROOF ROOF	1/4	1		NOTE #4&13
EF-J16	32,LP1J2	20/1	2#12, 1#12GND., 3/4"C.	THERM.SWITCH	_	_	_	ROOF	1/4	1	120	NOTE #4&1
EF-J17 EF-J18	33,LP1J2 25,27,29,MP1J2	20/1 15/3	3#12, 1#12GND., 3/4"C.	THERM.SWITCH 30A-3P3F	4.0A	- FVNR	0	ROOF ROOF	1/30	3	480	NOTE #4&1.
EF-J19 EF-J20	28,LP1J1 30,LP1J1	20/1 20/1	" " "	THERM.SWITCH THERM.SWITCH				ROOF ROOF	1/30 1/60	1		NOTE #4&1.
EF-J21	32,LP1J1	20/1		THERM.SWITCH		_	_	ROOF	1/60	1		NOTE #4&1
CU A1		15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	4.0A	FVNR	0		1/2	3		NOTE #4
CU-A1 CU-A2 (SUP)		30/3 15/3	3#10, 1#10GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	30.0A 4.0A	FVNR	0		22AMP 1/2	3	208	NOTE #2 NOTE #4
CU-A2 CU-B1 (SUP)	19,21,23,LP2A1 19,21,23,LP1B1	30/3 15/3	3#10, 1#10GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	30.0A 4.0A	FVNR	0		22AMP 1/2	3		NOTE #2 NOTE #4
CU-B1 CU-B2 (SUP)	25,27,29,LP1B1	30/3 15/3	3#10, 1#10GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	30.0A 4.0A	FVNR	0		22AMP 1/2	3	208	NOTE #2
CU-B2	33,35,37,LP2B1	30/3	3#10, 1#10GND., 3/4"C.	30A-3P3F	30.0A			-D WITH	22AMP	3	208	NOTE #2
CU-C1 (SUP) CU-C1	27,29,31,LP1C1	40/3 20/2	3#8, 1#10GND., 3/4"C. 2#12, 1#12GND., 3/4"C.	30A-3P3F 30A-2P2F	35.0A 5.0A	FU	RNISHE	ED WITH UNIT	17.6AMP 1/6	3 1	208	NOTE #2 NOTE #2
CU-J1 (SUP)	FED FROM COND. UNIT 38,40,42,LP1J3	- 30/2	2#12, 1#12GND., 3/4"C. 2#10, 1#10GND., 3/4"C.	- 30A-2P2F	- 30.0A			ED WITH UNIT	- 17AMP	1		NOTE #12, I
	, , , , , , , , , , , , , , , , , , , ,	, –									-	п · ·
HU-A1 (SUP)		50/3	3#10 1#10GND., 3/4"C.	FURNISHED \				D WITH UNIT	15	3		NOTE #5
HU-A1 (RET) HU-A2 (SUP)	 	20/3 100/3	3#12 1#12GND., 3/4"C. 3#6, 1#8GND., 1"C.	FURNISHED Y				ED WITH UNIT	5.0 30	3		NOTE #5
HU-A2 (RET)	8,10,12,MP2A2	50/3 100/3	3#10, 1#10GND., 3/4"C. 3#6, 1#8GND., 1"C.	FURNISHED '	WITH UNIT	FU	RNISHE	ED WITH UNIT	15 30	3	480	NOTE #5
HU-A3 (SUP) HU-A3 (RET)	19,21,23,MP2A2	35/3	3#10, 1#10GND., 3/4"C.	FURNISHED '	WITH UNIT	FU	RNISHE	D WITH UNIT	10	3	480	NOTE #5
HU-A4 (SUP)	14,16,18,MP2A2 20,22,24,MP2A2	70/3 35/3	3#8 1#8GND., 3/4°C. 3#10, 1#10GND., 3/4°C.	FURNISHED '				ED WITH UNIT	20 10	3 3		NOTE #5
(III)												
HU-B1 (SUP) AHU-B1 (RET)		100/3 35/3	3#6, 1#8GND., 1"C. 3#10, 1#10GND., 3/4"C.	FURNISHED '				ED WITH UNIT	30 10	3		NOTE #5

FOUNDATE	CIRCUIT/	0.C.P.	I	LOCAL	DISC.			TARTER	L	.OAD		5544.546
EQUIPMENT	SOURCE PÂNEL	DEVICE	FEEDER 3,410 1,410,6ND 3,/4"C	DISC. SWITCH	FUSE	TYPE	SIZE	LOCATION	HP/KW	PH		REMARKS
AHU-B3 (SUP) AHU-B3 (RET)	8,10,12,MP2B2 14,16,18,MP2B2	50/3 30/3	3#10, 1#10GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	FURNISHED '				D WITH UNIT	15 7.5	3	-	NOTE #5
AHU-B4 (SUP)	13,15,17,MP2B2	35/3	3#10, 1#10GND., 3/4"C.	FURNISHED '				D WITH UNIT	10	3	480	NOTE #5
HU-B4 (RET) HU-D1 (SUP)	19,21,23,MP2B2 1,3,5,MP1D1	20/3 50/3	3#12, 1#12GND., 3/4"C. 3#10, 1#10GND., 3/4"C.	FURNISHED '				D WITH UNIT	5 15	3	480 480	NOTE #5
AHU-D1 (RET)	7,9,11,MP1D1	20/3	3#12, 1#12GND., 3/4°C.	FURNISHED '				ID WITH UNIT	5	3	480	NOTE #5
AHU-D2 (SUP)	2,4,6,MP1D1	50/3	3#10, 1#10GND., 3/4"C.	FURNISHED '				D WITH UNIT	15	3	480	NOTE #5
AHU-D2 (RET) AHU-E1 (SUP)	8,10,12,MP1D1 1,3,5,MP1H1	20/3 50/3	3#12, 1#12GND., 3/4"C. 3#10, 1#10GND., 3/4"C.	FURNISHED '				D WITH UNIT	5 15	3	480 480	NOTE #5
AHU-E1 (RET)	7,9,11,MP1H1	30/3	3#12, 1#12GND., 3/4"C.	FURNISHED '				D WITH UNIT	7.5	3	480	NOTE #5
AHU-E2 (SUP)	13,17,19,MP1H1	30/3	3#12, 1#12GND., 3/4"C.	FURNISHED '				D WITH UNIT	7.5	3	480	NOTE #5
AHU-E2 (RET) AHU-F1 (SUP)	19,21,23,MP1H1 1,3,5,MP1F1	15/3 30/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	FURNISHED '				D WITH UNIT	3.0 7.5	3	480 480	NOTE #5
AHU-F1 (RET)	7,9,11,MP1F1	20/3	3#12, 1#12GND., 3/4"C.	FURNISHED '				D WITH UNIT	5	3	480	NOTE #5
AHU-F2 (SUP)	2,4,6,MP1F1	35/3	3#10, 1#10GND., 3/4"C.	FURNISHED '				D WITH UNIT	10	3	480	NOTE #5
AHU-F2 (RET) AHU-F3 (SUP)	8,10,12,MP1F1 13,15,17,MP1F1	20/3 35/3	3#12, 1#12GND., 3/4"C 3#10, 1#10GND., 3/4"C	FURNISHED '				D WITH UNIT	5 10	3	480 480	NOTE #5
AHU-F3 (RET)	19,21,23,MP1F1	20/3	3#12, 1#12GND., 3/4"C	FURNISHED '				D WITH UNIT	5	3	480	NOTE #5
AHU-G1 (SUP) AHU-G1 (RET)	14,16,18,MP1F1	20/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	FURNISHED '				D WITH UNIT	3 1.5	3 3	480 480	NOTE #5
AHU-G1 (RET) AHU-G2 (SUP)	20,22,24,MP1F1 25,27,29,MP1F1	20/3 35/3	3#10, 1#10GND., 3/4°C.	FURNISHED '				ID WITH UNIT	1.5	3		NOTE #5
AHU-G2 (RET)	31,33,35,MP1F1	20/3	3#12, 1#12GND., 3/4"C	FURNISHED '				D WITH UNIT	5	3	ł – – – – – – – – – – – – – – – – – – –	NOTE #5
AHU-H1 (SUP) AHU-H1 (RET)	2,4,6,MP1H1 8,10,12,MP1H1	20/3 15/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	FURNISHED '				D WITH UNIT	5 3	3	-	NOTE #5
AHU-H2 (SUP)	14,16,18,MP1H1	30/3	3#12, 1#12GND., 3/4"C.	FURNISHED '				D WITH UNIT	7.5	3		NOTE #5
AHU-H2 (RET)	20,22,24,MP1H1	15/3	3#12, 1#12GND., 3/4"C.	FURNISHED '				D WITH UNIT	2	3	-	NOTE #5
AHU-J1 (SUP) AHU-J1 (RET)	1,3,5,MP1J3 7,9,11,MP1J3	50/3 20/3	3#10, 1#10GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	60A-3P3F 30A-3P3F	35.0A 15.0A	FVNR FVNR	2		15 5.0	3 .3		NOTE #4 NOTE #4
AHU-J2 (SUP)	2,4,6,MP1J3	50/3	3#10, 1#10GND., 3/4°C.	60A-3P3F	35.0A	FVNR	2		15	3		NOTE #4
AHU-J2 (RET)	8,10,12,MP1J3	20/3	3#12, 1#12GND., 3/4°C.	30A-3P3F	15.0A	FVNR	0		5.0	3		NOTE #4
AHU-J3 (SUP)	13,15,17,MP1J3	70/3	3#8, 1#10GND., 3/4"C.	60A-3P3F	50.0A	FVNR	0		20	3	480 	NOTE #4
AHU-J4 (SUP)	1,3,5,MP1J2	50/3	3#10, 1#10GND., 3/4"C.	FURNISHED '				D WITH UNIT	15	3		NOTE #5
AHU-J5 (SUP)	7,9,11,MP1J2	20/3	3#12, 1#12GND., 3/4°C.	FURNISHED '				D WITH UNIT	5	3	-	NOTE #5
AHU-J5 (SUP) AHU-J5 (RET)	2,4,6,MP1J2 8,10,12,MP1J2	70/3 20/3	3#8, 1#10GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	FURNISHED '		-		D WITH UNIT	20 5	3		NOTE #5 NOTE #5
AHU-J6 (SUP)	14,16,18,MP1J3	30/3	3#10, 1#10GND., 3/4"C.	FURNISHED '	WITH UNIT	FU	RNISHE	D WITH UNIT	7.5	3	480	NOTE #5
AHU-J6 (RET) AHUF2 (WHEEL)	20,22,24,MP1J3 43,45,47,MP1F1	15/3 15/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	FURNISHED 30A-3P3F	WITH UNIT 2.0A			D WITH UNIT	3 1/4	3 3		NOTE #5 NOTE #5
AHUF3 (WHEEL)	49,51,53,MP1F1	15/3	3#12, 1#12GND., 3/4°C.	30A-3P3F	2.0A 2.0A			D WITH UNIT	1/4	3	1	NOTE #5
AHUG2 (WHEEL)	44,46,48,MP1F1	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	2.0A	-		D WITH UNIT	1/4	3	1	NOTE #5
AHUH2 (WHEEL)	34,36,LP1H1A	20/2	2#12, 1#12GND., 3/4"C.	30A-2P2F	15.0A	FU FU	KNISHE	D WITH UNIT	1/2	1	208	NOTE #5
MAU-1	26,28,30,MP1F1	40/3	3#10, 1#10GND., 3/4°C.	30A-3P3F	30A	(2)FVNR	1	ROOF	(2) 7.5	3	480	NOTE #4
MAU-2	32,34,36,MP1F1	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	17.0A	(2)FVNR	0	ROOF	(2) 2		480	NOTE #4
_ P−1	– 13,15,17,EHPOA1	20/3	- 3#12, 1#12GND., 3/4"C.	- 30A-3P3F	- 15.0A	FVNR	0	- BOILER RM	_ 5	_ 3	- 480	NOTE #4
P-2	14,16,18,EHPOA1	20/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	15.0A	FVNR	0	BOILER RM	5	3	480	NOTE #4
P-3	19,21,23,EHPOA1	20/3	2#12, 1#12GND., 3/4"C.	30A-3P3F	15.0A	FVNR FVNR	0	BOILER RM	5	3	-	NOTE #4
P-4 P-5	22,24,26,EHPOA1 25,27,29,EMMDP	20/3 100/3	2#12, 1#12GND., 3/4"C. 3#6, 1#8GND., 1"C.	30A-3P3F -	15.0A -	FVNR VFD	0	BOILER RM BOILER RM	5 30	3	480 480	NOTE #4 NOTE #5
P-6	31,33,35,EMMDP	100/3	3#6, 1#8GND., 1"C.	_	_	VFD	_	BOILER RM	30	3	480	NOTES #5
P-7 P-8	31,33,35,MPB1 1,3,5,MPB1	100/3 20/3	3#6, 1#8GND., 1"C. 3#12, 1#12GND., 3/4"C.	_	_	VFD VFD	_	BOILER RM CHILLER RM	30 5	3 3	480 480	NOTES #5 NOTE #5
P-8 P-9	2,4,6,MPB1	20/3	3#12, 1#12GND., 3/4°C.	_	_	VFD	_	CHILLER RM	5 5	3	480	NOTE #5
P-10	7,9,11,MPB1	20/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	15.0A	FVNR	0	CHILLER RM	5	3	480	NOTE #4
P-11 P-12	8,10,12,MPB1 13,15,17,MPB1	20/3 20/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	15.0A 15.0A	FVNR FVNR	0	CHILLER RM CHILLER RM	5 5	3	480 480	NOTE #4
P-13	14,16,18,MPB1	30/3	3#10, 1#10GND., 3/4°C.	30A-3P3F	20.0A	FVNR	1	CHILLER RM	7-1/2		480	NOTE #4
P-14	19,21,23,MPB1	35/3	3#10, 1#10GND., 3/4"C.	60A-3P3F	25A	FVNR	1	CHILLER RM	10	3	480	NOTE #4
P-15 -	20,22,24,MPB1 _	35/3 -	3#10, 1#10GND., 3/4"C.	60A-3P3F -	25A	FVNR	1	CHILLER RM	10 –	3 -	480 –	NOTE #4
BOILER B1	1,3,5,EHPOA1	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	8.0A			D WITH UNIT	3	3	480	NOTE #2
BOILER B2	2,4,6,EHPOA1	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	8.0A			D WITH UNIT	3	3	480 480	NOTE #2
BOILER B3 BOILER B4	7,9,11,EHPOA1 8,10,12,EHPOA1	15/3 15/3	3#12, 1#12GND., 3/4"C. 3#12, 1#12GND., 3/4"C.	30A-3P3F 30A-3P3F	8.0A 8.0A	-		D WITH UNIT	3 3	3	480 480	NOTE #2 NOTE #2
BOILER 1 CTRLS	1,ELPOA1	20/1	2#12, 1#12GND., 3/4"C.	THERM.SWITCH	l –	. 0			0.5KW	1	120	COORD. W/ DIV. 15 FOR CTRLS REQTS.
BOILER 2 CTRLS	2,ELPOA1	20/1	2#12, 1#12GND., 3/4°C.						0.5KW	1	120 120	COORD. W/ DIV. 15 FOR CTRLS REQTS.
OILER 3 CTRLS OILER 4 CTRLS	3,ELPOA1 4,ELPOA1	20/1	2#12, 1#12GND., 3/4°C. 2#12, 1#12GND., 3/4°C.						0.5KW 0.5KW	1	120 120	COORD. W/ DIV. 15 FOR CTRLS REQTS.
BOILER REMOTE	5,ELPOA1	20/1	2#12, 1#12GND., 3/4"C.	-	.				0.5KW	1	}	COORD. W/ DIV. 15 FOR CTRLS REQTS.
CH-1	MAIN SWITCHBOARD	300/3	3#4/OMCM, 1#4GND., 2"C.	FURNISHED '	<u> </u> WITH LINIT	FII	RNISHF	D WITH UNIT	174.0kW	3	480	NOTE #3, REFER TO POWER RISER
CH-1	MAIN SWITCHBOARD	600/3	(2) 3#4/0, 1#1GND., 2°C.						174.0kW 249.0kW			NOTE #3, REFER TO POWER RISER
CH-3	MAIN SWITCHBOARD	600/3	(2) 3#4/0, 1#1GND., 2°C.	-	î				249.0kW	3	480	NOTE #3, REFER TO POWER RISER
CP-1 CP-2	11,ELPOA1 13,ELPOA1	20/1	2#12, 1#12GND., 3/4"C. 2#12, 1#12GND., 3/4"C.			_ _	_	BOILER ROOM BOILER ROOM	1/6 1/6	1	120 120	NOTE #4 NOTE #4
CP-3	15,ELPOA1	20/1	2#12, 1#12GND., 3/4"C.	THERM.SWITCH	l –	_	_	BOILER ROOM	1/6	1	120	NOTE #4
CP-4	17,LP1B1	20/1	2#12, 1#12GND., 3/4"C.			- EVND	_ 1	STORAGE 1225	1/6	1	120	NOTE #4
AIR COMP UST COLL SYS	8,10,12,MP1B1 2,4,6,MP1B1	20/3 35/3	3#12, 1#12GND., 3/4"C. 3#10, 1#10GND., 3/4"C.	30A-3P3F 30A-3P3F	6.0A 25.0A	FVNR FVNR	1	CONST LAB 1219 GRADE	2 10	3		NOTE #4 NOTE #4
CAH 1	32,34,36,EHPOA1	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	8.0A	2SPD	0	BOILER ROOM	3	3	480	NOTE #4
CAH 2	37,39,41,EHPOA1	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	8.0A	2SPD	0	BOILER ROOM	3	3	480	NOTE #4
CT 1	MAIN SWITCHBOARD	50/3	3#8, 1#10GND., 3/4"C.			VFD			15	3	480	NOTE #10 & 5, REFER TO POWER RISE
CT 2	MAIN SWITCHBOARD	50/3	3#8, 1#10GND., 3/4"C.			VFD			15	3	480	NOTE #10 & 5, REFER TO POWER RISE
CWF-1	25,27,29,MPB1	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	4.0A	FII	RNISHF	D WITH UNIT	1	3	480	NOTE #2
DOCK LEVELER	19,21, 2 3,KPH	20/3	3#12, 1#12GND., 3/4°C.	30A-3P3F	2.0A			D WITH UNIT	1/2	3		NOTE #11
ELEVATOR - 22	19,21,23,EMMDP	90/3	3#6, 1#8GND., 1"C.	100A-3P3F	60.0A			D WITH UNIT	25	3	-	NOTES #4 & 6 REFER TO POWER RIS
ELEVATOR-06 ELEVATOR-37E	MAIN SWITCHBOARD 20,22,24,HDP1J	150/3 20/3	3#3, 1#6GND., 1-1/4"C. 3#12, 1#12GND., 3/4"C.	200A-3P3F 30A-3P3F	110.0A 15.0 A			D WITH UNIT	50 5	3	-	NOTES #4 & 6 REFER TO POWER RIS
OIL T/F PUMP	2,4,6,EMMDP	15/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	3.0A	FU	RNISHE	D WITH UNIT	3/4	3	480	NOTE #11
OIL HEATER	8,10,12,EMMDP	20/3	3#12, 1#12GND., 3/4"C.	30A-3P3F	20.0A			D WITH UNIT	10KW	3	-	NOTE #11
FIRE PUMP JOCKEY PUMP	SERVICE SWITCH 20,22,24,EMMDP	- 15/3	3#2, 1#6GND., 1-1/2"C. 3#12, 1#12GND., 3/4"C.	FURNISHED '				D WITH UNIT	50 3/4	3	}	NOTES #3 REFER TO POWER RISER NOTES #3 REFER TO POWER RISER
		,							·			"
	25,27,29,MP2B2	50/3	3#6, 1#10GND., 1"C.	60A-3P3F	50.0A			D WITH UNIT	30KW	3	480 480	NOTE #11
EDH-B1	26,28,30,MP2B2 31,33,35,MP2B2	50/3 50/3	3#6, 1#10GND., 1"C. 3#6, 1#10GND., 1"C.	60A-3P3F 60A-3P3F	50.0A 50.0A			D WITH UNIT	30KW 30KW	3	480 480	NOTE #11 NOTE #11
EDH-B1 EDH-B2 EDH-B3		50/3	3#6, 1#10GND., 1"C.	60A-3P3F	50.0A	FU	RNISHE	D WITH UNIT	30KW	3	480	NOTE #11
EDH-B2 EDH-B3 EDH-B4	22,24,26,MP2B2	50/3	3#6, 1#10GND., 1"C.	60A-3P3F	50.0A 50.0A			D WITH UNIT	30KW 30KW	3	480 480	NOTE #11 NOTE #11
EDH-B2 EDH-B3 EDH-B4 EDH-B5	37,39,41,MP2B2	·	3#6 1#100ND 1"0	604-3030		. rU	. WIISHE	- THILL OINLI	JUNW	ا ا	+0∪	#!!
EDH-B2 EDH-B3 EDH-B4		50/3 50/3	3#6, 1#10GND., 1"C. 3#6, 1#10GND., 1"C.	60A-3P3F 60A-3P3F	50.0A		RNISHE	D WITH UNIT	30KW	3	480	NOTE #11
EDH-B2 EDH-B3 EDH-B4 EDH-B5 EDH-B6 EDH-B7 EDH-J1	37,39,41,MP2B2 38,40,42,MP2B2 43,45,47,MP2B2 19,21,23,MP1J2	50/3 50/3 35/3	3#6, 1#10GND., 1"C. 3#8, 1#10GND., 3/4"C.	60A-3P3F 60A-3P3F	50.0A 35.0A	FU FU	RNISHE	D WITH UNIT	20KW	3	480	NOTE #11
EDH-B2 EDH-B3 EDH-B4 EDH-B5 EDH-B6 EDH-B7	37,39,41,MP2B2 38,40,42,MP2B2 43,45,47,MP2B2	50/3 50/3	3#6, 1#10GND., 1"C.	60A-3P3F	50.0A	FU FU	RNISHE		_	_		
EDH-B2 EDH-B3 EDH-B4 EDH-B5 EDH-B6 EDH-B7 EDH-J1	37,39,41,MP2B2 38,40,42,MP2B2 43,45,47,MP2B2 19,21,23,MP1J2	50/3 50/3 35/3	3#6, 1#10GND., 1"C. 3#8, 1#10GND., 3/4"C.	60A-3P3F 60A-3P3F	50.0A 35.0A	FU FU FU	RNISHE	D WITH UNIT	20KW	3	480	NOTE #11

MOTOR CIRCUIT SCHEDULE NOTES:

ABBREVIATIONS:

FVNR — FULL VOLTAGE NON—REVERSING VFD - VARIABLE FREQUENCY DRIVE 2 SPEED - TWO SPEED NON REVERSING HACR - HEATING, AIR CONDITIONING AND REFRIGERATION TYPE CIRCUIT BREAKER THERM. SWITCH - THERMAL OVERLOAD PROTECTION DISCONNECT DEVICE

- 2. DISCONNECT SWITCH FURNISHED, INSTALLED AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 16. UNIT FURNISHED COMPLETE WITH MOTOR STARTER BY DIV. 15.
- 3. DISCONNECT SWITCH/STARTER FACTORY INSTALLED AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 15. ONE POINT POWER
- CONNECTION BY DIVISION 16. 4. DISCONNECT SWITCH AND MOTOR STARTER FURNISHED, INSTALLED

AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 16.

INSTALLED BY DIVISION 16. ONE POINT POWER CONNECTION BY DIVISION 16. PROVIDE ALL WIRING TO VFD AND FROM VFD TO UNIT BY DIVISION 16.

5. DISCONNECT SWITCH/STARTER (VFD) PROVIDED BY DIVISION 15;

- 6. PROVIDE SHUNT TRIP CIRCUIT BREAKER IN PANELBOARD. PROVIDE DISCONNECT SWITCH WITH AUX. CONTACTS FOR EMERGENCY LOWERING DEVICE MANUAL BYPASS IN ELEVATOR MACHINE ROOM.
- 7. COORDINATE WITH TEMPERATURE CONTROLS PRIOR TO INSTALLATION OF FRACTIONAL HORSEPOWER 120V FANS.
- 8. REFER TO ELECTRICAL PANELBOARD SCHEDULES AND ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 9. ALL DISCONNECT SWITCHES DESIGNATED FOR EXTERIOR USE (MOUNTED ON ROOF) SHALL BE NEMA TYPE 3R.
- 10. DISCONNECT SWITCH/STARTER FACTORY INSTALLED AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 15. ONE POINT POWER CONNECTION BY DIVISION 16. PROVIDE ALL WIRING TO COOLING TOWER CONTROL PANEL AND FROM CONTROL PANEL TO COOLING TOWER UNIT BY DIVISION 16.
- 11. DISCONNECT SWITCH FURNISHED, INSTALLED AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 16. UNIT FURNISHED COMPLETE WITH MOTOR STARTER BY UNIT MANUFACTURER.
- 12. POWER CONNECTION TO ACU-J1 (SUP) INDOOR UNIT, SHALL BE RUN FROM TERMINAL BLOCK IN CONTROL PANEL OF CU-J1 OUTDOOR CONDENSING UNIT.
- 13. PROVIDE RELAY IN ENCLOSURE ADJACENT TO SOURCE PANEL FOR REMOTE CONTROL OF FAN. RELAY TO BE NORMALLY OPEN, ELECTRICALLY HELD CLOSED WITH 20A, 120V CONTACTS RATED FOR 1/3 HP. RELAY COIL VOLTAGE TO BE COORDINATED WITH DIV. 15 CONTROLS CONTRACTOR.
- 14. DISCONNECT SWITCH AND EXPLOSION PROOF MOTOR STARTER FURNISHED, INSTALLED AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 16.

REVISIONS

DATE JANUARY 29, 2001

FEBRUARY 21, 2001

JUNE 22, 2001

DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

DESCRIPTION



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD&SHADFORDING

MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.00

KAESTLE BOOS ASSOCIATES, INC.

ARCHITECTS

DRAWN BY: MSA CHECKED BY:

ELECTRICAL MOTOR CIRCUIT SCHEDULE

PROJECT NO.: 00048

DRAWING NO.:

DATE: JANUARY 20, 2001

E4.02

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PANEL	LOCATION		VELBO	RIPTION			BRANCH CIRC	UIT BREAKER	REMARKS
EHPOA1	LOWER G BOILER ROOM 0107	MAINS 100 AMP M.C.B.	VOLTAGE 480/277 3ø 4W	POLES 42	MT'G SURFACE	42K	ACTIVE 6 - 15/3 4 - 20/3	SPARE 1 - 20/3	_
EKPH	MAIN G CORRIDOR	60 AMP M.C.B.	480/277 3ø 4W	24	SURFACE	42K	5 - 20/1	2 - 20/1	_
EKPL	MAIN G CORRIDOR	125 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	13 - 20/1	4 - 20/1	
ELP0A1	LOWER G	250 AMP	208/120	42	SURFACE	22K	1 - 60/3	5 - 20/1	
	ELECTRICAL ROOM 0102	M.C.B.	3ø 4W				1 - 60/3 1 - 125/3		
HP1A1	MAIN A	200 AMP	480/277	42	SURFACE	42K	11 – 20/1	4 - 20/1	 -
	ELECTRICAL CLOSET 1108	M.C.B.	3ø 4W				1 - 30/3 2 - 70/3		-
HP1B1	MAIN B ELECTRICAL CLOSET 1207	400 AMP M.C.B.	480/277 3ø 4W	42	SURFACE	42K	12 - 20/1 1 - 70/3 1 - 100/3 1 - 225/3	4 - 20/1	
HP1D1	MAIN D ELECTRICAL	100 AMP M.L.O.	480/277 3ø 4W	24	SURFACE	42K	18 - 20/1	4 - 20/1	- -
HP1E1	MAIN H ELECTRICAL	60 AMP M.C.B.	480/277 3ø 4W	24	SURFACE	42K	7 – 20/1	3 - 20/1	
HP1H1	CLOSET 1804 MAIN H	100 AMP	480/277	30	SURFACE	42K	9 - 20/1	5 - 20/1	- -
HP1J1	ELECTRICAL CLOSET 1804 MAIN J ELECTRICAL CLOSET 1950	M.L.O. 150 AMP M.C.B.	3ø 4W 480/277 3ø 4W	42	SURFACE	42K	6 - 20/1	5 - 20/1	_
HP1J2	MAIN J ELECTRICAL	300 AMP M.C.B.	480/277 3ø 4W	42	SURFACE	42K	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3 - 20/1 1 - 20/3	- -
HP2A1	UPPER A ELECTRICAL	400 AMP M.C.B.	480/277 3ø 4W	42	SURFACE	42K	1 - 200/3 9 - 20/1	8 - 20/1	
HP2B1	CLOSET 2108 UPPER B	70 AMP	480/277	30	SURFACE	42K	2 - 70/3 2 - 125/3 11 - 20/1	1 - 20/3 4 - 20/1	-
	ELECTRICAL CLOSET 2219	M.C.B.	3ø 4W						
MPB1	LOWER G CHILLER ROOM	175 AMP M.C.B.	480/277 3ø 4W	84	SURFACE	42K	3 - 20/1	3 - 20/1	
	0105						4 - 15/3 5 - 20/3 1 - 30/3	2 - 20/3	_
MP1B1	MAIN B	100 AMP	480/277	42	SURFACE	42K	2 - 35/3 1 - 100/3 1 - 15/3	3 - 20/1	
	ELECTRICAL CLOSET 1207	M.L.O.	3ø 4W				3 - 20/3 1 - 35/3	1 - 20/3	-
MP1D1	MAIN D ELECTRICAL CLOSET 1424	225 AMP M.L.O.	480/277 3ø 4W	42	SURFACE	42K	2 - 20/3 1 - 25/3	2 - 20/3	
MP1H1	MAIN H	225 AMP	480/277	42	SURFACE	42K	2 - 40/3 2 - 50/3 3- 15/3	2 - 20/3	-
	ELECTRICAL CLOSET 1804	M.L.O.	3ø 4W				1- 20/3 3 - 30/3 1 - 50/3		-
MP1F1	MAIN F STORAGE 1603	175 AMP M.C.B.	480/277 3ø 4W	84	SURFACE	42K	6 - 15/3 4 - 20/3	2 - 20/3	_
MP1J2	MAIN J	200 AMP	480/277	42	SURFACE	42K	2 - 30/3 3 - 35/3 3- 15/3	2 - 20/3	
	ELECTRICAL CLOSET 1927	M.C.B.	3ø´4W				2 - 20/3 1 - 30/3 1 - 45/3		_
							1 - 50/3 1 - 70/3		-
MP1J3	MAIN J ELECTRICAL CLOSET 1904	150 AMP M.C.B.	480/277 3ø 4W	42	SURFACE	42K	3 - 15/3 2 - 20/3 1 - 30/3	2 - 20/3	
							2 - 50/3 1 - 70/3 1 - 15/3	2 - 20/3	_
MP2A2	UPPER A ELECTRICAL CLOSET 2108	225 AMP M.C.B.	480/277 3ø 4W	42	SURFACE	42K	1 - 20/3 1 - 30/3		- -
							1 - 35/3 3 - 50/3 1 - 70/3		
MD2D2	LIDDED D	700 AMP	480 /077	84	SURFACE	42K	1 - 100/3 8 - 15/3	2 - 20/3	
MP2B2	UPPER B STORAGE 2217	M.C.B.	480/277 3ø 4W	O 4	JOINT ACE	TZN	1 - 20/3 1 - 30/3	2 20/3	- - -
							2 - 35/3 7 - 45/3 1 - 50/3		_
							1 - 60/3 1 - 100/3 1 - 225/3		- -
MP2B3	UPPER B STORAGE 2217	100 AMP M.L.O.	480/277 3ø 4W	42	SURFACE	42K	9 - 15/3	2 - 15/3	
IG1A1	MAIN A ELECTRICAL CLOSET 1108	150 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	32 - 20/1 1 - 60/3	7 – 20/1	REFER NOTE #1
IG1A2	MAIN A ELECTRICAL	100 AMP M.L.O.	208/120 3ø 4W	42	SURFACE	22K	24 - 20/1	5 - 20/1	REFER NOTE #1

		PAN	VELBO) SCI	HED		UIT BREAKER	
PANEL IG1B1	LOCATION —	MAINS 150 AMP	VOLTAGE 208/120	POLES 42	MT'G SURFACE	A.I.C.	BRANCH CIRC ACTIVE 34 - 20/1	SPARE 5 - 20/1	REMARKS REFER NOTE #1
	ELECTRICAL CLOSET 1207	M.C.B.	3ø 4W				1 - 60/3	,	,
IG1B2	MAIN B ELECTRICAL CLOSET 1207	100 AMP M.L.O.	208/120 3ø 4W	42	SURFACE	22K	27 - 20/1	5 - 20/1	REFER NOTE #1
IG1C1	MAIN C ELECTRICAL CLOSET 1324	150 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	36 - 20/1 1 - 60/3	3 - 20/1	REFER NOTE #1
IG1C2	MAIN C ELECTRICAL CLOSET 1324	100 AMP M.L.O.	208/120 3ø 4W	30	SURFACE	22K	6 - 20/1	4 - 20/1	REFER NOTE #1
IG1D1	MAIN D ELECTRICAL CLOSET 1424	150 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	21 - 20/1 1 - 100/3	5 - 20/1	REFER NOTE #1
IG1D2	MAIN D ELECTRICAL CLOSET 1424	100 AMP M.L.O.	208/120 3ø 4W	42	SURFACE	22K	27 - 20/1	5 - 20/1	REFER NOTE #1
IG1E1	MAIN H ELECTRICAL CLOSET 1804	100 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	27 - 20/1 1 - 60/3	4 - 20/1	REFER NOTE #1
IG1H1	MAIN H ELECTRICAL CLOSET 1804	60 AMP M.C.B.	208/120 3ø 4W	30	SURFACE	22K	10 - 20/1	4 - 20/1	REFER NOTE #1
IG1J1	MAIN J ELECTRICAL CLOSET 1950	100 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	22 - 20/1	6 - 20/1	REFER NOTE #1
IG1J2	MAIN J ELECTRICAL CLOSET 1927	100 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	24 - 20/1	7 - 20/1	REFER NOTE #1
IG2A1	UPPER A ELECTRICAL	250 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	34 - 20/1 1 - 100/3	2 - 20/1	REFER NOTE #1
IG2A2	UPPER A ELECTRICAL	100 AMP M.L.O.	208/120 3ø 4W	42	SURFACE	22K	1 - 125/3 33 - 20/1	5 - 20/1	REFER NOTE #1
IG2B1	UPPER B ELECTRICAL	125 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	31 - 20/1	6 - 20/1	REFER NOTE #1
	CLOSET 2219								
KPH	MAIN G	200 AMP	480/277	42	SURFACE	42K	6 - 20/1	5 – 20/1	KITCHEN EQUIPMENT POWER PANEL
	CORRIDOR 1723	M.C.B.	3ø 4W				2 - 15/3 1 - 20/3 1 - 30/3	1 - 20/3	, SHEIN FAINEL
							1 - 40/3 1 - 90/3		
KPL	MAIN G CORRIDOR 1723	600 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	31 - 20/1 1 - 15/2		KITCHEN EQUIPMENT POWER PANEL
							$ \begin{array}{r} 1 - 30/2 \\ 1 - 70/3 \\ 2 - 200/3 \end{array} $		
KPL1	MAIN G	500 AMP	208/120	42	SURFACE	22K	3 - 20/1	2 - 20/1	KITCHEN EQUIPMENT
	CORRIDOR 1723	M.C.B.	3ø´4W				16 - 20/2 1 - 150/3 1 - 175/3		POWER PANEL
KPL2	MAIN G CORRIDOR 1723	225 AMP M.L.O.	208/120 3ø 4W	42	SURFACE	22K	21 - 20/1	3 - 20/1	KITCHEN EQUIPMENT POWER PANEL
KPL3	MAIN G	225 AMP	3ø 4W 208/120	42	SURFACE	22K	4 - 30/3	1 - 20/3 5 - 20/1	KITCHEN EQUIPMENT
. 23	CORRIDOR 1723	M.L.O.	3ø 4W	. <u>-</u>			4 - 20/2 2 - 30/2	1 - 20/3	POWER PANEL
							2 - 30/3		-
LP3DA	MAIN J 3-D ART ROOM	40 AMP M.C.B.	208/120 3ø 4W	30	SURFACE	22K	9 - 20/1	4 - 20/1	PROVIDE WITH INTER 3P MAIN CONTACTO
LPB	1941 LOWER G MAIN ELECTRICAL	100 AMP M.L.O.	208/120 3ø 4W	42	SURFACE	22K	18 - 20/1	5 - 20/1	_
LPB1	ROOM 0102 LOWER G MAIN ELECTRICAL	100 AMP M.L.O.	208/120 3ø 4W	42	SURFACE	22K	17 - 20/1	8 - 20/1	_
LP1A1	ROOM 0102 MAIN A ELECTRICAL	150 AMP M.C.B.	208/120	42	SURFACE	22K	22 - 20/1	5 - 20/1	_
LP1B1	CLOSET 1108	M.C.B.	3ø 4W 208/120	42	SURFACE		1 - 15/3 1 - 35/3 18 - 20/1	4 - 20/1	_
-, 1U1	ELECTRICAL CLOSET 1207	M.C.B.	208/120 3ø 4W	, ∓∠	JOINI AUE	۷۱ ک	1 - 15/3 1 - 35/3	, 20/1	
							1 - 60/3 1 - 300/3		
LP1B2	MAIN B ELECTRICAL CLOSET 1207	100 AMP M.L.O.	208/120 3ø 4W	42	SURFACE	22K	12 - 20/1	4 - 20/1	_
LP1C1	MAIN C ELECTRICAL CLOSET 1324	100 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	20 - 20/1	7 - 20/1	_
LP1D1	MAIN D ELECTRICAL	150 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	$ \begin{array}{r} 1 - 40/3 \\ 20 - 20/1 \\ 2 - 100/3 \end{array} $	5 – 20/1	_
LP1D2	MAIN D ELECTRICAL	100 AMP M.L.O.	208/120 3ø 4W	42	SURFACE	22K	26 - 20/1 1 - 30/2	4 - 20/1	_
LP1E1	CLOSET 1424 MAIN H ELECTRICAL	150 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	31 - 20/1	5 – 20/1	_
LP1H1A	CLOSET 1804 MAIN H	250 AMP	208/120	42	SURFACE	22K	29 - 20/1	6 - 20/1	-
	ELECTRICAL CLOSET 1804	M.C.B.	3ø´4W				1 - 20/2 1 - 30/2 1 - 100/3		
					1 '			i	
LP1H1A	ELECTRICAL			42	SURFACE	22K	1 - 20/2 1 - 30/2	6 - 20/1	_

PANEL	LOCATION	MAINS	PANEL DESC		MT'G	A.I.C.	BRANCH CIRC		REMARKS
 LP1J1	MAIN J	100 AMP	208/120	POLES 42	SURFACE	22K	ACTIVE 27 - 20/1	SPARE 7 - 20/1	_
2	ELECTRICAL CLOSET 1950	M.C.B.	3ø 4W						
LP1J2	MAIN J ELECTRICAL	150 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	25 - 20/1	4 - 20/1	
	CLOSET 1927						1 - 20/2 3 - 50/2		
							1 - 40/3		
LP1J3	MAIN J	100 AMP	208/120	42	SURFACE	22K	34 - 20/1	4 - 20/1	_
	ELECTRICAL CLOSET 1904	M.C.B.	3ø´4W				1 - 30/1		
							1 - 20/3		
LP2A1	UPPER A ELECTRICAL	150 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	29 - 20/1	7 - 20/1	
	CLOSET 2108						1 - 15/3		
 LP2B1	UPPER B	250 AMP	208/120	42	SURFACE	22K	1 - 35/3 28 - 20/1	5 - 20/1	_
	ELECTRICAL CLOSET 2219	M.C.B.	3ø 4W	'2	SON NOL	221	1 - 15/3	0 20/1	
	CLUSE 1 2219						1 - 35/3		
							1 - 100/3		
LP2B2	UPPER B ELECTRICAL	100 AMP M.L.O.	208/120 3ø 4W	42	SURFACE	22K	24 - 20/1	6 - 20/1	
	CLOSET 2219	WI.L.O.	39 4W						
LPMTL	MAIN D MOD.	100 AMP	000 (100	30	SURFACE	22K	11 - 20/1	4 - 20/1	PROVIDE WITH INT
LPMIL	TECH LAB 1404	M.C.B.	208/120 3ø 4W	30	SURFACE	22K	11 - 20/1	4 - 20/1	3P MAIN CONTAC
	1000=	400 111-			0.15=:		7 1:	A 65.41	
LSHB	LOWER G MAIN ELECTRICAL	100 AMP M.L.O.	480/277 3ø 4W	24	SURFACE	42K	3 - 20/1	4 - 20/1	_
	ROOM 0102								_
LSH1A	MAIN A	60 AMP	480/277	24	SURFACE	42K	7 - 20/1	3 - 20/1	_
	ELECTRICAL CLOSET 1108	M.C.B.	3ø 4W				1 - 40/3	,	
	32321 1133								
LSH1B	MAIN B ELECTRICAL	100 AMP M.C.B.	480/277	30	SURFACE	42K	5 - 20/1	3 - 20/1	
	CLOSET 1207	W.C.D.	3ø 4W				1 - 30/3		
I CUID	MAIN D	100 4440	400 (077	40	CUDEACE	401/	1 - 60/3	4 20 /1	_
LSH1D	MAIN D ELECTRICAL	100 AMP M.C.B.	480/277 3ø 4W	42	SURFACE	42K	21 - 20/1	4 - 20/1	_
	CLOSET 1424								
LSH1H	MAIN H	60 AMP	480/277	30	SURFACE	42K	12 - 20/1	4 - 20/1	_
	ELECTRICAL CLOSET 1804	M.C.B.	3ø 4W						
							,		
LSH1J	MAIN J ELECTRICAL	100 AMP M.C.B.	480/277 3ø 4W	24	SURFACE	42K	8 - 20/1	3 - 20/1	_
	CLOSET 1904						1 - 60/3		_
LSH2A	UPPER A	40 AMP	480/277	30	SURFACE	42K	5 - 20/1	3 - 20/1	_
	ELECTRICAL CLOSET 2108	M.C.B.	3ø 4W				,	,	
	020321 2100								
LSH2B	UPPER B ELECTRICAL	30 AMP M.C.B.	480/277	12	SURFACE	42K	2 - 20/1	2 - 20/1	
	CLOSET 2219	IVI.C.D.	3ø 4W						
1 CL 10	AAAINI I	70 AMD	400 (000	10	CUBEACE	401/	4 20 /1	2 20 /1	DD0/4DE (C) 4D (
LSLJ2	MAIN J ELECTRICAL	30 AMP M.C.B.	120/208 3ø 4W	12	SURFACE	42K	4 - 20/1	2 - 20/1	PROVIDE (6) 1P S AND BUS
	CLOSET 1927								1
PCL	MAIN B	300 AMP	208/120	42	SURFACE	22K	10 - 20/1	6 - 20/1	PROVIDE WITH INT
	CONSTRUCTION LAB 1219	M.C.B.	3ø´4W				10 - 30/2		3P MAIN CONTAC
							2 - 125/3		
PFLA	MAIN D STORAGE ROOM	200 AMP M.C.B.	208/120 3ø 4W	42	SURFACE	22K	12 - 20/1	6 - 20/1	
	1415	1₹1. ♥. □.	JV 4VV				5 - 50/2		-
PFLB	MAIN D FOOD	200 AMP	200 /100	42	SURFACE	22K	22 - 20/1	5 - 20/1	_
rr L Ø	MANGEMENT	M.C.B.	208/120 3ø 4W	42	JUNFACE	/ ZZN	1 - 30/2	J - ZU/I	+
	LAB 1416						1 - 50/3		1
							, , , , , , , , , , , , , , , , , , ,		
01111		70 11:-	,	4.0	CUETATE	4611	7 00 /:	7 00 %	
SLH1	MAIN A ELECTRICAL	30 AMP M.C.B.	480/277 3ø 4W	12	SURFACE	42K	3 - 20/1	3 - 20/1	_
	CLOSET 1108								-
SLH2	MAIN J	40 AMP	480/277	12	SURFACE	42K	4 - 20/1	2 - 20/1	_
_	ELECTRICAL CLOSET 1950	M.C.B.	3ø 4W				, ·	, ,	1
	525521 1950			1		1			7

REVISIONS

JANUARY 29, 2001

DRAWINGS ISSUED FOR STATE FEBRUARY 21, 2001

DEPARTMENT OF EDUCATION REVIEW OF PHASE II DRAWINGS ISSUED FOR STATE DEPARTMENT OF EDUCATION RESUBMISSION OF PHASE II DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



NEW RHAM HIGH SCHOOL WALL STREET HEBRON, CONNECTICUT 06248

STATE PROJECT#: 208-018N STATE PROJECT#: 208-019 EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS



vZHS PROJECT NUMBER: 2000155.00

KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

416 SLATER RD. NEW BRITIAN, CT 06050-2590 (860) 229-0361

DRAWN BY: CHECKED BY: **ELECTRICAL**

PANELBOARD SCHEDULES

PROJECT NO.: 00048

DRAWING NO.:

DATE: JANUARY 20, 2001

E4.03

	LIGHTING		POWER		SPECIAL SYSTEMS		
SYMBOL	DESCRIPTION	⇒ _{a,b}	DUPLEX RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK.	SYMBOL	DESCRIPTION	->-	POTHEAD
O×	CEILING MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE		COORDINATE INSTALLATION WITH ARCHITECT. DOUBLE DUPLEX RECEPTACLE; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP	⊙ _D	FLOOR MOUNTED DATA/TELEPHONE OUTLET POKE—THRU UNIT WITH (4) DATA/TELEPHONE BLANK PLATES.	_ _	STRESSCO
× ○ ·	WALL MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE 2'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER	⇒ _{a,b}	OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. COORDINATE INSTALLATION WITH ARCHITECT.	. O	COMMUNICATIONS FLOOR MONUMENT WITH LFMC WHIP CONNECTION	 	CURRENT
• X	INDICATES FIXTURE TYPE DUAL BALLAST 2'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE;	. +	SINGLE RECEPTACLE	>	COMBINATION DATA/TELEPHONE OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE.		POWER TE
×	SUBLETTER INDICATES FIXTURE TYPE 1'x4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER	- ⊙ _P	FLOOR MOUNTED POWER OUTLET, POKE THROUGH UNIT WITH (2) 20AMP DUPLEX POWER OUTLETS.	τ ⊳	TEACHERS DATA/VOICE OUTLET. SEE DETAIL #10 ON DWG #3.02.		FUSE CUT
X	INDICATES FIXTURE TYPE 2'x2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE	⊙ _{RM}	RECESSED FLOOR BOX WITH THREE DUPLEX RECEPTACLE AND FLUSH COVER	w >	TELEPHONE OUTLET WITH BACKBOX AND EMPTY CONDUIT, STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE. SUBLETTER "W" INDICATES WALL—MOUNTED;		FUSE & S
X	TYPICAL CEILING MOUNTED FLUORESCENT FIXTURE— NORMAL/EMERGENCY, SEE PLAN AND FIXTURE SCHEDULE FOR BATTERY OR INVERTER POWER		FLUSH FLOOR BOX WITH SPECIAL PURPOSE RECEPTACLE AMPERAGE AND	► _{HP}	HANDICAP PAY TELEPHONE OUTLET WITH BACKBOX AND CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE		SWITCH
	CONTINUOUS FLUORESCENT LIGHT FIXTURE		VOLTAGE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER.	\triangleright	DATA OUTLET WITH BACKBOX AND EMPTY CONDUIT STUBBED UP TO ABOVE FINISHED CEILING, INCLUDING DRAG LINE.		CIRCUIT E
● X	WALL WASHER LIGHT FIXTURE		DUPLEX RECEPTACLE—ONE OUTLET SWITCHED	2 ⊳	SIMILAR TO DATA OUTLET ABOVE EXCEPT, DOUBLE DATA OUTLET.	$\rightarrow\leftarrow$	DRAWOUT
0 0+	LIGHT ON EMERGENCY CIRCUIT	⇒ _c	DUPLEX RECEPTACLE. SUBLETTER "C" INDICATES CEILING MOUNTED	\bigcirc	TELEVISION CABLE OUTLET; MOUNT AT 18" AFF UNLESS OTHERWISE NOTED.	$\prec\leftarrow\Box\rightarrow\succ$	MEDIUM V
├ X	FLUORESCENT STRIP LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE	\Rightarrow_{H}	DUPLEX RECEPTACLE FOR TELEVISION. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.	√TV _H	TELEVISION CABLE OUTLET; COORDINATE MOUNTING HEIGHT WITH ARCHITECT	<u></u> ←^—	BUSPLUG
	POWER LIGHT TRACK WITH NUMBER OF FIXTURES AS INDICATED ON PLANS; SUBLETTER INDICATES FIXTURE TYPE SINGLE OR DUAL HEAD, WALL MOUNTED, BATTERY OPERATED REMOTE	⊕ w	WASHING MACHINE RECEPTACLE, PROVIDE DEDICATED CIRCUIT.	S	CEILING-MOUNTED, SOUND SYSTEM SPEAKER	 	BUSPLUG
I Y	EMERGENCY LIGHT	E _	ELECTRICAL FLOOR MONUMENT WITH LFMC WHIP CONNECTION	<u>\$</u> ⊢	WALL-MOUNTED, SOUND SYSTEM SPEAKER SOUND SYSTEM VOLUME CONTROLLER		GROUND
X X +	DOUBLE FACED CEILING OR WALL-MOUNTED, EXIT SIGN WITH EMERGENCY POWER BACK UP AND DIRECTIONAL CHEVRONS AS INDICATED ON PLANS SINGLE FACED CEILING OR WALL-MOUNTED EXIT SIGN WITH EMERGENCY	-	SPECIAL—PURPOSE OUTLET. AMPERAGE AND VOLTAGE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER. DRYER RECEPTACLE, NEMA #6-3R. PROVIDE FEEDER, 2#10+1#10GRD., 1"C.	S _V M _{F.W}	SOUND SYSTEM MICROPHONE JACK; SUBLETTER "F" INDICATES FLOOR-MOUNTED. SUBLETTER "W" INDICATES WALL-MOUNTED		THERMAL RELAY/CO
	POWER BACK UP AND DIRECTIONAL CHEVRONS AS INDICATED ON PLANS CEILING OR WALL-MOUNTED, EMERGENCY LIGHT UNIT WITH SELF CONTAINED	_ - ≪₀	TO A 30AMP, 2P CIR. BKR. IN PANEL INDICATED. ELECTRIC RANGE OUTLET, NEMA #6-50R. PROVIDE FEEDER, 2#6+1#10GRD.,	S _{HA}	SOUND SYSTEM SPEAKER, HIGH AMBIENT NOISE LEVEL TYPE		N/O CON
	BATTERY FIXTURE SHALL MONITOR LIGHTING CIRCUIT IN AREA. EMERGENCY LIGHTING BATTERY UNIT	-	1"C. TO A 50AMP, 2P CIR. BKR. "IN PANEL INDICATED. DUPLEX RECEPTACLE, EMERGENCY POWER; SUBLETTER "a" INDICATES	KP	SECURITY SYSTEM KEYPAD		N.C. CON
AOR O4	AREA OF REFUGE INDICATOR LIGHT WITH BATTERY PACK	- → a,b	RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. COORDINATE INSTALLATION WITH ARCHITECT.	[IM]	SECURITY SYSTEM INFRARED MOTION SENSOR, CEILING MOUNTED		PROTECTI
RTS	EMERGENCY LIGHTING REMOTE TEST SWITCH, REFER TO DETAIL #4 ON DRAWING #E3.01.		DOUBLE DUPLEX RECEPTACLE, EMERG. POWER; SUBLETTER "a" INDICATES RECEPTACLE TO BE MOUNTED 6" ABOVE COUNTER TOP	\triangle	SECURITY SYSTEM INFRARED MOTION SENSOR, WALL MOUNTED	A	AMMETER
RBP	EMERGENCY LIGHTING REMOTE BATTERY UNIT.	→ _{a,b}	OR 48" AFF. SUBLETTER "b" INDICATES MOUNTED IN ARCHITECTURAL MILLWORK. COORDINATE INSTALLATION WITH ARCHITECT.	CR	SECURITY SYSTEM CARD READER LOCATION	AS	AMMETER
	SWITCHES	$\blacksquare \Phi \Phi \Phi$	SURFACE RACEWAY WITH OUTLETS AS INDICATED ON PLANS, MOUNTED AT 18" AFF, UNLESS OTHERWISE NOTED	•	SECURITY SYSTEM DOOR CONTACT SWITCH	V	VOLTMETE
S	SINGLE-POLE SWITCH			©	WALL CLOCK WITH HANGER TYPE OUTLET	VS	VOLTMETE
\$3	3-WAY SWITCH		ELECTRICAL PANEL 480/277 VOLT	E _{PC}	EMERGENCY CALL—FOR—AID SWITCH EMERGENCY CALL—FOR—AID PUSHBUTTON	₩HM→>	WATTHOUI
S ₄	4-WAY SWITCH		ELECTRICAL PANEL 120/208 VOLT	EPB	EMERGENCY CALL—FOR—AID VISUAL INDICATING UNIT		WATTMETE
Sp	SINGLE-POLE SWITCH AND PILOT LIGHT		SPECIAL-PURPOSE ELECTRICAL PANEL OR EQUIPMENT		EMERGENCY CALL—FOR—AID VISUAL/AUDIO INDICATING UNIT		TRANSFOR
Sbe	BOILER EMERGENCY SWITCH		ELECTRICAL POWER TRANSFORMER MAGNETIC STARTER		INTERCOM STATION; SUBLETTER "M" INDICATES MASTER		SHIELDED
SD	SINGLE-POLE DIMMER SWITCH		FUSED DISCONNECT SWITCH WITH SIZE/RATING	· · · · · · ·	VIDEO OUTLET, INSTALLATION SHALL BE SIMILAR TO DETAIL #2, "TYPICAL INSTALLATION DETAIL, TELEPHONE/DATA OUTLET", ON DRAWING #E3.02.	>	AUTO TRA
S _{D3}	3-WAY DIMMER SWITCH		COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH	GVP	GAS VALVE PANEL, PANEL FURNISHED AND INSTALLED BY DIV. 15, WIRED BY ELEC. CONTRACTOR. REFER TO DETAIL #1 ON DRAWING #E3.02.		LIGHTNING
S T M	SINGLE—POLE SWITCH WITH THERMAL OVERLOAD PROTECTION ROTARY TIMER SWITCH	Ø	ELECTRIC MOTOR	SB ▽	DATA OUTLET FOR SMART BOARD, INSTALLATION SHALL BE SIMILAR TO DETAIL #2, "TYPICAL INSTALLATION DETAIL, TELEPHONE/DATA OUTLET", ON DRAWING #E3.02. VERIFY LOCATION WITH ARCHITECT.	<u>©</u>	GENERATO
S 2SPD	THREE POSITION AC SWITCH	VFD	VARIABLE FREQUENCY DRIVE		FIRE	Δ	DELTA
Sk	SINGLE-POLE KEYED SWITCH	J	FLOOR OR CEILING MOUNTED JUNCTION BOX	1	FIRE	Y	WYE
						-	
S K3	KEYED, 3-WAY SWITCH	J	WALL MOUNTED JUNCTION BOX	M	FIRE ALARM MAGNETIC DOOR HOLD DEVICE		KEY INTE
S K3	KEYED, 3-WAY SWITCH KEYED, 4-WAY SWITCH	① ① HD	WALL MOUNTED JUNCTION BOX AT ELECTRIC HAND DRYER, UNIT FURNISHED BY OTHERS, INSTALLED AND WIRED BY DIVISION 16	(FS)	SPRINKLER FIRE ALARM FLOW SWITCH		KEY INTEI
			WALL MOUNTED JUNCTION BOX AT ELECTRIC HAND DRYER, UNIT FURNISHED			 	AUTOMATI
S K4	KEYED, 4-WAY SWITCH VARIABLE SPEED FAN SWITCH FURNISHED WITH FAN BY DIV. 15, INSTALLED	⊕ HD	WALL MOUNTED JUNCTION BOX AT ELECTRIC HAND DRYER, UNIT FURNISHED BY OTHERS, INSTALLED AND WIRED BY DIVISION 16 JUNCTION BOX AT ELECTRONIC FAUCET SENSOR TRANSFORMER MOUNTED ABOVE GRID CEILING. UNIT FURNISHED AND INSTALLED BY OTHERS, WIRED BY DIVISION 16. REFER TO DETAIL #9 ON DRAWING #E3.03. WEATHER PROOF JUNCTION BOX AT ELECTRIC HEAT TRACE CABLE FURNISHED, INSTALLED AND WIRED BY DIVISION 16.	(FS)	SPRINKLER FIRE ALARM FLOW SWITCH SPRINKLER FIRE ALARM SUPERVISORY SWITCH	 	
SK4	KEYED, 4-WAY SWITCH VARIABLE SPEED FAN SWITCH FURNISHED WITH FAN BY DIV. 15, INSTALLED AND WIRED BY DIV. 16 MOTORIZED OVERHEAD DOOR WALL SWITCH. SWITCH FURNISHED WITH DOOR BY OTHERS. SWITCH INSTALLED AND WIRED TO DOOR UNIT BY	JHD JSEN JHT	WALL MOUNTED JUNCTION BOX AT ELECTRIC HAND DRYER, UNIT FURNISHED BY OTHERS, INSTALLED AND WIRED BY DIVISION 16 JUNCTION BOX AT ELECTRONIC FAUCET SENSOR TRANSFORMER MOUNTED ABOVE GRID CEILING. UNIT FURNISHED AND INSTALLED BY OTHERS, WIRED BY DIVISION 16. REFER TO DETAIL #9 ON DRAWING #E3.03. WEATHER PROOF JUNCTION BOX AT ELECTRIC HEAT TRACE CABLE FURNISHED, INSTALLED AND WIRED BY DIVISION 16. WALL POWER OUTLET LOCATIONS FOR MODULAR SYSTEM FURNITURE, PROVIDE A 4"x4"x2" OUTLET BOX WITH PLASTER RING, BLANK PLATE WITH	(FS) (SS) (PS)	SPRINKLER FIRE ALARM FLOW SWITCH SPRINKLER FIRE ALARM SUPERVISORY SWITCH SPRINKLER FIRE ALARM PRESSURE SWITCH	N *\ _ E	AUTOMAT
SK4 SFAN SMD	KEYED, 4-WAY SWITCH VARIABLE SPEED FAN SWITCH FURNISHED WITH FAN BY DIV. 15, INSTALLED AND WIRED BY DIV. 16 MOTORIZED OVERHEAD DOOR WALL SWITCH. SWITCH FURNISHED WITH DOOR BY OTHERS. SWITCH INSTALLED AND WIRED TO DOOR UNIT BY ELEC. CONTRACTOR. WALL MOUNTED OCCUPANCY SENSOR SWITCH MOTORIZED PORJECTION SCREEN WALL SWITCH. SWITCH FURNISHED WITH SCREEN BY OTHERS. SWITCH INSTALLED AND WIRED TO SCREEN UNIT BY	① HD ① SEN	WALL MOUNTED JUNCTION BOX AT ELECTRIC HAND DRYER, UNIT FURNISHED BY OTHERS, INSTALLED AND WIRED BY DIVISION 16 JUNCTION BOX AT ELECTRONIC FAUCET SENSOR TRANSFORMER MOUNTED ABOVE GRID CEILING. UNIT FURNISHED AND INSTALLED BY OTHERS, WIRED BY DIVISION 16. REFER TO DETAIL #9 ON DRAWING #E3.03. WEATHER PROOF JUNCTION BOX AT ELECTRIC HEAT TRACE CABLE FURNISHED, INSTALLED AND WIRED BY DIVISION 16. WALL POWER OUTLET LOCATIONS FOR MODULAR SYSTEM FURNITURE, PROVIDE A 4"x4"x2" OUTLET BOX WITH PLASTER RING, BLANK PLATE WITH A 1"Ø BUSHED OPENING FOR CONNECTION TO MODULAR SYSTEM FURNITURE POWER WHIP FITTING. EXTEND 3/4" CONDUIT UP TO CEILING PLENUM BUSH END. PROVIDE CIRCUIT CONDUCTORS AS SHOWN ON PLAN.	(F) (S) (F) (F)	SPRINKLER FIRE ALARM FLOW SWITCH SPRINKLER FIRE ALARM SUPERVISORY SWITCH SPRINKLER FIRE ALARM PRESSURE SWITCH MASTER FIRE ALARM PULL BOX	N *\ _ E	AUTOMAT
SK4 SFAN SMD SO SPROJ	VARIABLE SPEED FAN SWITCH FURNISHED WITH FAN BY DIV. 15, INSTALLED AND WIRED BY DIV. 16 MOTORIZED OVERHEAD DOOR WALL SWITCH. SWITCH FURNISHED WITH DOOR BY OTHERS. SWITCH INSTALLED AND WIRED TO DOOR UNIT BY ELEC. CONTRACTOR. WALL MOUNTED OCCUPANCY SENSOR SWITCH MOTORIZED PORJECTION SCREEN WALL SWITCH. SWITCH FURNISHED WITH SCREEN BY OTHERS. SWITCH INSTALLED AND WIRED TO SCREEN UNIT BY ELEC. CONTRACTOR. "FUSOMATIC" BOILER EMERGENCY THERMAL SHUT—OFF SWITCH	J HD J SEN J HT E	WALL MOUNTED JUNCTION BOX AT ELECTRIC HAND DRYER, UNIT FURNISHED BY OTHERS, INSTALLED AND WIRED BY DIVISION 16 JUNCTION BOX AT ELECTRONIC FAUCET SENSOR TRANSFORMER MOUNTED ABOVE GRID CEILING. UNIT FURNISHED AND INSTALLED BY OTHERS, WIRED BY DIVISION 16. REFER TO DETAIL #9 ON DRAWING #E3.03. WEATHER PROOF JUNCTION BOX AT ELECTRIC HEAT TRACE CABLE FURNISHED, INSTALLED AND WIRED BY DIVISION 16. WALL POWER OUTLET LOCATIONS FOR MODULAR SYSTEM FURNITURE, PROVIDE A 4"x4"x2" OUTLET BOX WITH PLASTER RING, BLANK PLATE WITH A 1"ø BUSHED OPENING FOR CONNECTION TO MODULAR SYSTEM FURNITURE POWER WHIP FITTING. EXTEND 3/4" CONDUIT UP TO CEILING PLENUM BUSH END. PROVIDE CIRCUIT CONDUCTORS AS SHOWN ON PLAN. WALL DATA/TELEPHONE OUTLET LOCATIONS FOR MODULAR SYSTEM FURNITURE, PROVIDE A 4"x4"x2" OUTLET BOX WITH PLASTER RING, BLANK	(FS) (SS) (PS) (F) (S) (S) (F)	SPRINKLER FIRE ALARM FLOW SWITCH SPRINKLER FIRE ALARM SUPERVISORY SWITCH SPRINKLER FIRE ALARM PRESSURE SWITCH MASTER FIRE ALARM PULL BOX SMOKE DETECTOR FOR ELEVATOR RECALL CONTROLS	N*\ *E X	MAIN LUG
SK4 SFAN SMD SO SPROJ	KEYED, 4-WAY SWITCH VARIABLE SPEED FAN SWITCH FURNISHED WITH FAN BY DIV. 15, INSTALLED AND WIRED BY DIV. 16 MOTORIZED OVERHEAD DOOR WALL SWITCH. SWITCH FURNISHED WITH DOOR BY OTHERS. SWITCH INSTALLED AND WIRED TO DOOR UNIT BY ELEC. CONTRACTOR. WALL MOUNTED OCCUPANCY SENSOR SWITCH MOTORIZED PORJECTION SCREEN WALL SWITCH. SWITCH FURNISHED WITH SCREEN BY OTHERS. SWITCH INSTALLED AND WIRED TO SCREEN UNIT BY ELEC. CONTRACTOR. "FUSOMATIC" BOILER EMERGENCY THERMAL SHUT-OFF SWITCH INSTALLED AND WIRED BY DIV. 16.	JHD JSEN JHT	WALL MOUNTED JUNCTION BOX AT ELECTRIC HAND DRYER, UNIT FURNISHED BY OTHERS, INSTALLED AND WIRED BY DIVISION 16 JUNCTION BOX AT ELECTRONIC FAUCET SENSOR TRANSFORMER MOUNTED ABOVE GRID CEILING. UNIT FURNISHED AND INSTALLED BY OTHERS, WIRED BY DIVISION 16. REFER TO DETAIL #9 ON DRAWING #E3.03. WEATHER PROOF JUNCTION BOX AT ELECTRIC HEAT TRACE CABLE FURNISHED, INSTALLED AND WIRED BY DIVISION 16. WALL POWER OUTLET LOCATIONS FOR MODULAR SYSTEM FURNITURE, PROVIDE A 4"x4"x2" OUTLET BOX WITH PLASTER RING, BLANK PLATE WITH A 1"Ø BUSHED OPENING FOR CONNECTION TO MODULAR SYSTEM FURNITURE POWER WHIP FITTING. EXTEND 3/4" CONDUIT UP TO CEILING PLENUM BUSH END. PROVIDE CIRCUIT CONDUCTORS AS SHOWN ON PLAN. WALL DATA/TELEPHONE OUTLET LOCATIONS FOR MODULAR SYSTEM FURNITURE, PROVIDE A 4"x4"x2" OUTLET BOX WITH PLASTER RING, BLANK PLATE WITH A 1"Ø BUSHED OPENING FOR CABLING TO MODULAR SYSTEM FURNITURE. EXTEND 3/4" CONDUIT UP INTO CEILING PLENUM BUSH END. DATA/TELEPHONE CABLING AND CONNECTIONS FURNISHED AND INSTALLED	FACP	SPRINKLER FIRE ALARM FLOW SWITCH SPRINKLER FIRE ALARM SUPERVISORY SWITCH SPRINKLER FIRE ALARM PRESSURE SWITCH MASTER FIRE ALARM PULL BOX SMOKE DETECTOR FOR ELEVATOR RECALL CONTROLS EXTERIOR REMOTE FIRE ALARM FLASHING STROBE LIGHT	N *\ _ E	MAIN CIRC
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WIRING NOTES:

SPECIAL CONDITIONS.

WIRING SYSTEM BE INSTALLED.

THROUGHOUT THE CIRCUIT.

INDICATED.

CIRCUIT NUMBERS AND PANEL DESIGNATIONS.

A. RACEWAYS AND WIRING ARE INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR

C. ALTHOUGH ALL FEEDER AND BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS

THE INTENT OF THESE DOCUMENTS THAT A COMPLETE FEEDER AND BRANCH CIRCUIT

AND GROUNDING CONDUCTOR UNLESS OTHERWISE INDICATED. PROVIDE A DEDICATED

LIGHTING CIRCUITS, UNLESS AN OVERSIZED NEUTRAL IS SPECIFICALLY INDICATED.

THE LOAD SERVED HAS PROVISIONS FOR, OR REQUIRES A NEUTRAL. TYPICALLY,

H. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.

I. A SWITCH IN A SPACE SHALL CONTROL LIGHTING IN THAT SPACE UNLESS OTHERWISE

E. WIRING INDICATED BY CIRCUIT NUMBER SYMBOL SHALL INCLUDE A NEUTRAL WHEN

BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (THREE PHASE AND THREE NEUTRALS)

ALL FEEDERS AND BRANCH CIRCUITS WILL REQUIRE A NEUTRAL, EXCEPT MOST MOTOR CIRCUITS.

B. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH

D. WHEN THE COMBINING OF CIRCUITS OR HOMERUNS IS ALLOWED, RACEWAYS SHALL

NEUTRAL CONDUCTOR FOR EACH SINGLE PHASE CIRCUIT. EXCEPT FOR

F. WIRE AND RACEWAY SIZES INDICATED ON HOMERUNS SHALL BE CONTINUOUS

G. RACEWAYS SHALL BE AS REQUIRED AND INDICATED IN THE SPECIFICATIONS.

SEND NOTES:

HIS IS A GENERAL LEGEND OF SYMBOLS AND ABBREVIATIONS AND HALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON AWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY SED ON THIS PROJECT.

ONE-LINE

STRESSCONE

FUSE CUT OUT

FUSE & SWITCH

CIRCUIT BREAKER

DRAWOUT CIRCUIT BREAKER

BUSPLUG CIRCUIT BREAKER

BUSPLUG FUSE & SWITCH

THERMAL OVERLOAD

MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER

GROUND

RELAY/COIL

N/O CONTACT

N.C. CONTACT

AMMETER

VOLTMETER

WATTMETER

TRANSFORMER

PROTECTIVE RELAY

AMMETER SWITCH

VOLTMETER SWITCH

WATTHOUR METER

WATTHOUR DEMAND METER

SHIELDED TRANSFORMER

AUTO TRANSFORMER

LIGHTNING ARRESTER

GENERATOR

KEY INTERLOCK

AUTOMATIC TRANSFER SWITCH (A.T.S.)

MAIN CIRCUIT BREAKER PANELBOARD

CIRCUIT BREAKER WITH AMP FRAME

FUSED DISCONNECT SWITCH,

WITH SWITCH SIZE OVER FUSE SIZE

MAIN LUG ONLY PANELBOARD

CURRENT TRANSFORMER

POWER TRANSFORMER

ABBREVIATIONS

DESCRIPTION

SYMBOL

Α

W

C/B

CIR

RTU

CUH

NE

NIC

LV

MOD

0/H

AMPERE

CONDUIT

TELEPHONE SERVICE

FIRE ALARM

NON-FUSED

CIRCUIT

TRANSFORMER

ROOFTOP UNIT

SMOKE DAMPER

TELEVISION

PVC POLYVINYL CHLORIDE CONDUIT

ROOF EXHAUST FAN

AIR HANDLING UNIT

CABINET UNIT HEATER

ELECTRIC WATER COOLER

ELECTRIC WATER HEATER

MAKE-UP AIR UNIT

SPACE AND PROVISION

EXISTING TO REMAIN

NOT IN CONTRACT

LOW VOLTAGE

SHUNT TRIP

EXPLOSION PROOF

MOTOR OPERATED DOOR

AUTOMATIC TRANSFER SWITCH

OVERHEAD, CEILING MOUNTED

GROUND FAULT INTERRUPTER

EXISTING EQUIPMENT TO REMAIN

REMOVE EXISTING EQUIPMENT

RELOCATE EXISTING EQUIPMENT

NEW LOCATION OF EXISTING EQUIPMENT

LIGHT FIXTURE WIRED FOR "NIGHT LIGHT" OPERATION

EXHAUST FAN

ISOLATED GROUND

RIGID METALLIC CONDUIT

ELECTRIC METALLIC TUBING

FLEXIBLE METALLIC TUBING

MOTORIZED DAMPER

PRIMARY ELECTRIC SERVICE

SECONDARY ELECTRIC SERVICE

TEMPERATURE CONTROL PANEL

WEATHERPROOF

CIRCUIT BREAKER

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

POLE

<u> RAL LIGHTING PLAN NOTES:</u>

- FOR LIGHTING FIXTURE DESCRIPTIONS, REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E4.01.
- FOR ACTUAL LOCATION OF CEILING MOUNTED LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING DRAWING(S).
- FOR ACTUAL LOCATION OF WALL MOUNTED LIGHTING FIXTURES AND TASK LIGHTING, REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS.
- D. ALL EXIT SIGNS AND AREA OF REFUGE INDICATOR LIGHTS SHALL BE WIRED AHEAD OF ANY SWITCHED LEGS ON LOCAL LIFE SAFETY, (EMERGENCY), LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING.
- EMERGENCY BATTERY UNITS AND BALLASTS SHALL BE WIRED AHEAD OF ANY SWITCHED LEGS ON LOCAL EMERGENCY LIGHTING BRANCH CIRCUIT, FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING, AND SUCH THAT FIXTURE ILLUMINATES UPON FAILURE OF LOCAL POWER.
- F. A LIGHT SWITCH (OR OCCUPANCY SENSOR SWITCH) IN A SPACE SHALL CONTROL ALL LIGHTING IN SPACE UNLESS OTHERWISE INDICATED.
- G. REFER TO LIGHTING DETAILS ON DRAWING E3.01 FOR TYPICAL WIRING SCHEMATICS.
- BUILDING, NOT EXPOSED ON BUILDING EXTERIOR.
- H. INSTALL CONDUIT AND WIRING FOR EXTERIOR BUILDING MOUNTED LIGHT FIXTURES, CONCEALED WITHIN

GENERAL POWER AND SIGNAL PLAN NOTES:

FSD —

ZAM ZONE ADDRESSABLE MODULE

FIRE/SMOKE DAMPER

ADDRESSABLE INTERFACE MODULE

- A. CONNECT ALL WIRING DEVICES TO THE PANELBOARD(S) NOTED, UNLESS OTHERWISE INDICATED ON THIS DRAWING.
- B. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- C. REFER TO ARCHITECTURAL EQUIPMENT PLANS AND CASEWORK ELEVATION DRAWINGS FOR OUTLET REQUIREMENTS AND LOCATIONS.
- D. REFER TO POWER AND SIGNAL RISER AND DETAIL DRAWINGS FOR TYPICAL WIRING SCHEMATICS AND
- INSTALLATION DETAILS.
- E. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, SWITCHES, FIRE ALARM DEVICES, ETC. WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS PRIOR TO START OF WORK, REQUEST CLARIFICATIONS FROM ARCHITECT PRIOR TO INSTALLATION.
- F. COORDINATE EXACT LOCATION OF MODULAR SYSTEMS FURNITURE POWER AND DATA/TELEPHONE ENTRANCE LOCATIONS WITH FURNITURE SUPPLIER PRIOR TO CONSTRUCTION.

GENERAL NOTES: A. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED, AND COORDINATION WITH ALL TRADES. SCOPE OF WORK IS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLIMENTARY. WORK INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS. WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND

QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.

- PROVIDE ALL WORK INDICATED OR DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE. C. COORDINATE WITH THE GENERAL CONTRACTOR, OTHER TRADES AND MANUFACTURER'S
- EQUIPMENT AND MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E., POWER, CONTROL, INTERLOCK, ETC. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRIC CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND
- SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODES AND AUTHORITIES. E. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH
- DRAWINGS, SPECIFICATIONS, MANUFACTURER'S RECOMMENDATION, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, APPROVALS AND CERTIFICATIONS.
- F. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, ROUTING AND MOUNTING HEIGHTS OF EQUIPMENT AND RACEWAYS SHALL BE COORDINATED WITH THE ARCHITECT, OTHER TRADES, EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.
- G. PROVIDE ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION.
- H. IF EXACT MOUNTING OR RACEWAY ROUTINGS ARE NOT INDICATED (LOCATION OR HEIGHT) REQUEST CLARIFICATION PRIOR TO ROUGHING, OR INSTALLATION.
- I. ELECTRICAL WORK SHALL BE RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.
- J. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24 INCH SPACING IN FIRE RATED WALLS. MOUNT LOW VOLTAGE AND POWER OUTLETS IN DIFFERENT STUD
- K. PROVIDE ELECTRICAL OUTLET PLATE GASKETS SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.
- PROVIDE CODE REQUIRED STARTERS AND DISCONNECTS WHICH ARE NOT FURNISHED UNDER DIVISIONS 11, 13 OR 15. INSTALL STARTERS AND DISCONNECTS THAT ARE FURNISHED UNDER DIVISIONS 11, 13 OR 15.
- M. INSTALL A GREEN GROUNDING CONDUCTOR WITHIN EACH RACEWAY SIZED IN ACCORDANCE WITH THE ELECTRIC CODE.
- N. PROVIDE WATERTIGHT AND GASTIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING FROM BELOW GRADE, O.Z. GEDNEY OR APPROVED EQUAL. PROVIDE WEATHERTIGHT SEAL AT PENETRATIONS ABOVE GRADE.
- O. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (SLAB TO SLAB) WALLS.
- P. ANY CONDUITS/CONDUCTORS/ELECTRICAL BOXES NOT SERVING STAIRWELL AREAS SHALL NOT PÉNETRATE STAIRWELL WALLS.

GENERAL WIRING NOTE:

1. PROVIDE BRANCH CIRCUIT CONDUCTORS AS FOLLOWS:

WALL CAVITIES.

FOR CIRCUITS UP TO 100 FEET IN LENGTH: #12AWG, MINIMUM.

FOR CIRCUITS GREATER THAN 100 FEET IN LENGTH AND UP TO 150 FEET IN LENGTH: #10AWG, MINIMUM. FOR CIRCUITS IN EXCESS OF 150 FEET IN LENGTH: #8AWG, MINIMUM.

- DESIGNATES LIGHT FIXTURE TYPE 2 ---- DESIGNATES BRANCH CIRCUIT NUMBER

LIGHTING FIXTURE NOMENCLATURE

DENOTES -DENOTES CIRCUIT NUMBER PANEL NAME

PANEL/CIRCUIT NOMENCLATURE

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS

SEPTEMBER 9, 2002 PHASE 2

SEPTEMBER 25, 2002 PHASE 2

DECEMBER 16, 2002 PHASE 2

DESCRIPTION

DRAWINGS ISSUED AS

DRAWINGS ISSUED FOR

REFERENCE ONLY FOR

SDE REVIEW AND REFERENCE FOR

PHASE 1 BIDDING



ADDITIONS RENOVATIONS RHAM MIDDLE SCHOOL

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

VANZELMHEY WOOD SHADFORDING

MECHANICAL AND ELECTRICAL ENGINEER

TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.01



KAESTLE BOOS ARCHITECTS

416 SLATER RD. NEW BRITAIN, CT 06050-2590 (860) 229-0361 DRAWN BY: BPCW

CHECKED BY: MWF

SCALE: AS NOTED

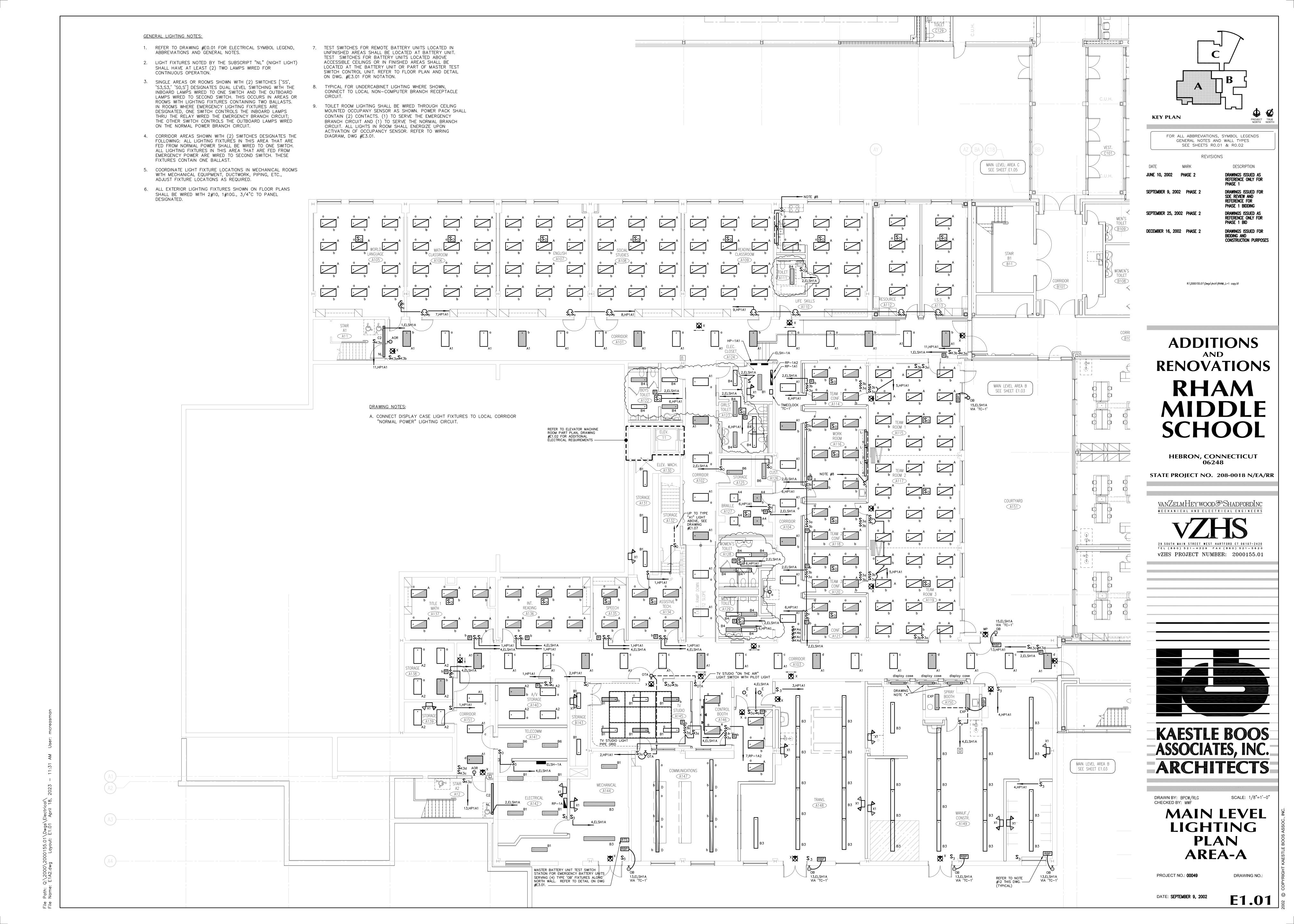
ELECTRICAL LEGEND AND **ABREVIATIONS**

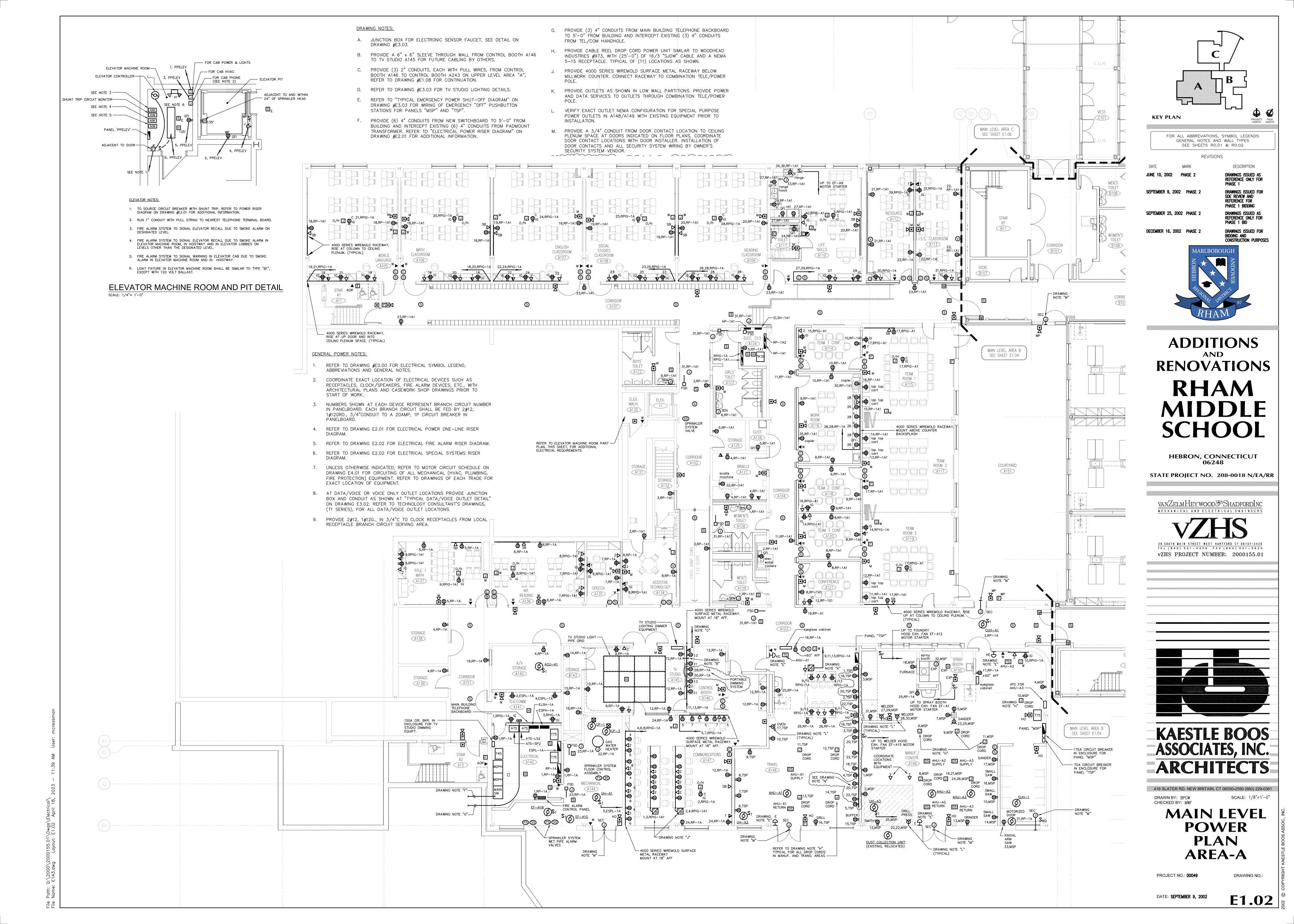
PROJECT NO.: **00049**

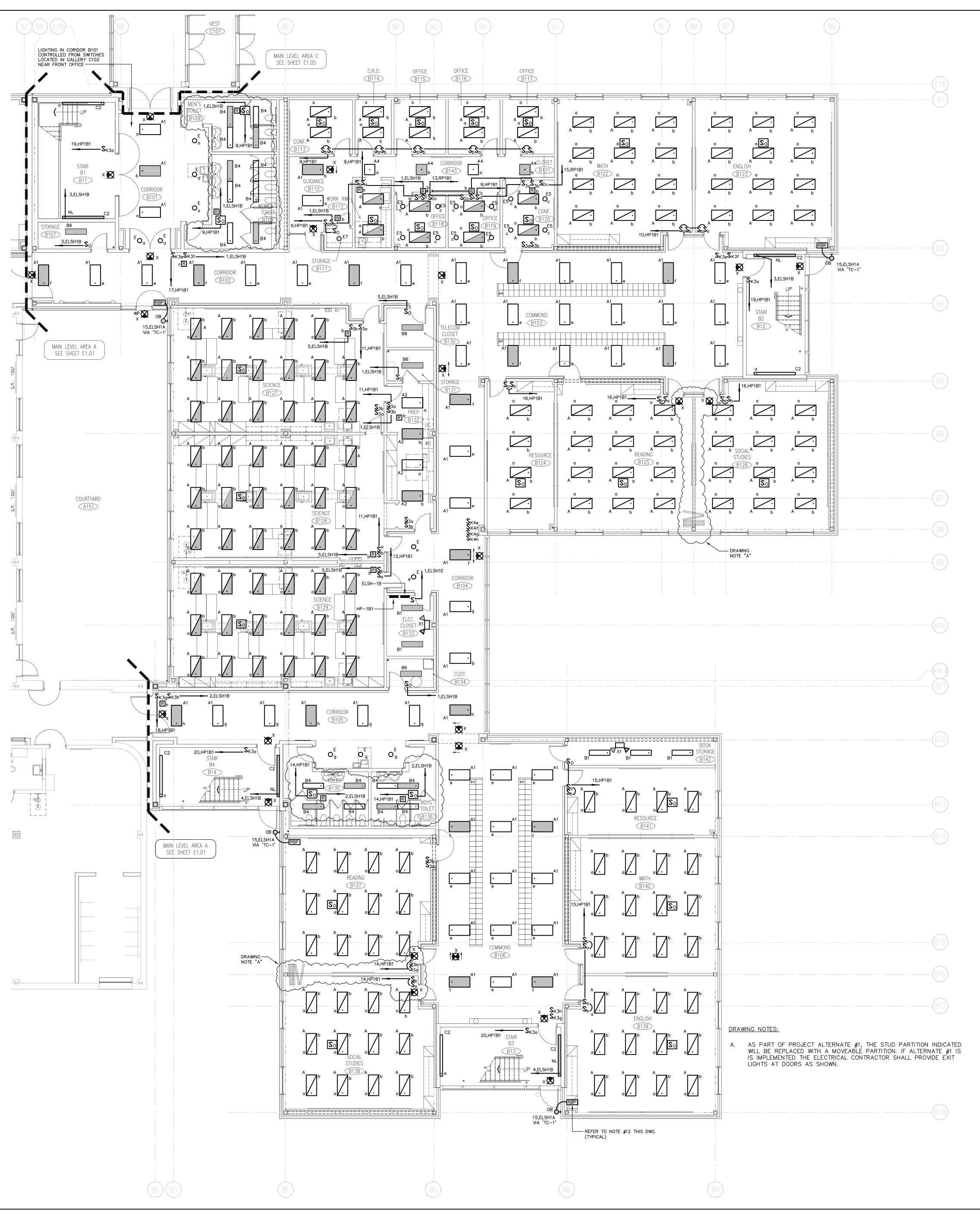
DRAWING NO.:

DATE: **SEPTEMBER 9, 2002**

E0.00







GENERAL LIGHTING NOTES:

1. REFER TO DRAWING #EO.01 FOR ELECTRICAL SYMBOL LEGEND,

2. LIGHT FIXTURES NOTED BY THE SUBSCRIPT "NL" (NIGHT LIGHT)

'S3,S3,' 'S0,S'] DESIGNATES DUAL LEVEL SWITCHING WITH THE INBOARD LAMPS WIRED TO ONE SWITCH AND THE OUTBOARD LAMPS WIRED TO SECOND SWITCH. THIS OCCURS IN AREAS OR ROOMS WITH LIGHTING FIXTURES CONTAINING TWO BALLASTS. IN ROOMS WHERE EMERGENCY LIGHTING FIXTURES ARE DESIGNATED, ONE SWITCH CONTROLS THE INBOARD LAMPS THRU THE RELAY WIRED THE EMERGENCY BRANCH CIRCUIT; THE OTHER SWITCH CONTROLS THE OUTBOARD LAMPS WIRED

SHALL HAVE AT LEAST (2) TWO LAMPS WIRED FOR CONTINUOUS OPERATION.

3. SINGLE AREAS OR ROOMS SHOWN WITH (2) SWITCHES ['SS',

4. CORRIDOR AREAS SHOWN WITH (2) SWITCHES DESIGNATES THE FOLLOWING: ALL LIGHTING FIXTURÉS IN THIS AREA THAT ARE FED FROM NORMAL POWER SHALL BE WIRED TO ONE SWITCH. ALL LIGHTING FIXTURES IN THIS AREA THAT ARE FED FROM

EMERGENCY POWER ARE WIRED TO SECOND SWITCH. THESE

COORDINATE LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC.,

6. ALL EXTERIOR LIGHTING FIXTURES SHOWN ON FLOOR PLANS SHALL BE WIRED WITH 2#10, 1#10G., 3/4"C TO PANEL DESIGNATED.

7. TEST SWITCHES FOR REMOTE BATTERY UNITS LOCATED IN

UNFINISHED AREAS SHALL BE LOCATED AT BATTERY UNIT. TEST SWITCHES FOR BATTERY UNITS LOCATED ABOVE

ACCESSIBLE CEILINGS OR IN FINISHED AREAS SHALL BE LOCATED AT THE BATTERY UNIT OR PART OF MASTER TEST SWITCH CONTROL UNIT. REFER TO FLOOR PLAN AND DETAIL ON DWG. #E3.01 FOR NOTATION.

8. TYPICAL FOR UNDERCABINET LIGHTING WHERE SHOWN, CONNECT TO LOCAL NON—COMPUTER BRANCH RECEPTACLE CIRCUIT.

9. TOILET ROOM LIGHTING SHALL BE WIRED THROUGH CEILING

CONTAIN (2) CONTACTS. (1) TO SERVE THE EMERGENCY BRANCH CIRCUIT AND (1) TO SERVE THE NORMAL BRANCH CIRCUIT. ALL LIGHTS IN ROOM SHALL ENERGIZE UPON ACTIVATION OF OCCUPANCY SENSOR. REFER TO WIRING

MOUNTED OCCUPANY SENSOR AS SHOWN. POWER PACK SHALL

ABBREVIATIONS AND GENERAL NOTES.

ON THE NORMAL POWER BRANCH CIRCUIT.

ADJUST FIXTURE LOCATIONS AS REQUIRED.

FIXTURES CONTAIN ONE BALLAST.

DIAGRAM, DWG #E3.01.

KEY PLAN

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS

DESCRIPTION

DRAWINGS ISSUED AS REFERENCE ONLY FOR

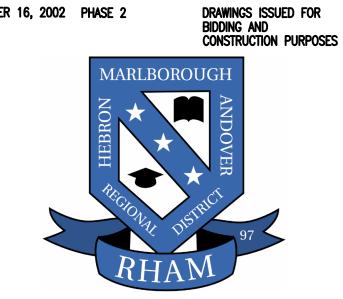
DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR

DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1 BID

PHASE 1 BIDDING

SEPTEMBER 9, 2002 PHASE 2

SEPTEMBER 25, 2002 PHASE 2



ADDITIONS RENOVATIONS

RHAM MIDDLE **SCHOOL**

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

vanZelmHeywood&ShadfordInc MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.01



ASSOCIATES, INC. ARCHITECTS

416 SLATER RD. NEW BRITAIN, CT 06050-2590 (860) 229-0361 DRAWN BY: BPCW CHECKED BY: RLG

SCALE: 1/8"=1'-0" MAIN LEVEL

LIGHTING **PLAN AREA-B**

PROJECT NO.: **00049**

DRAWING NO.:

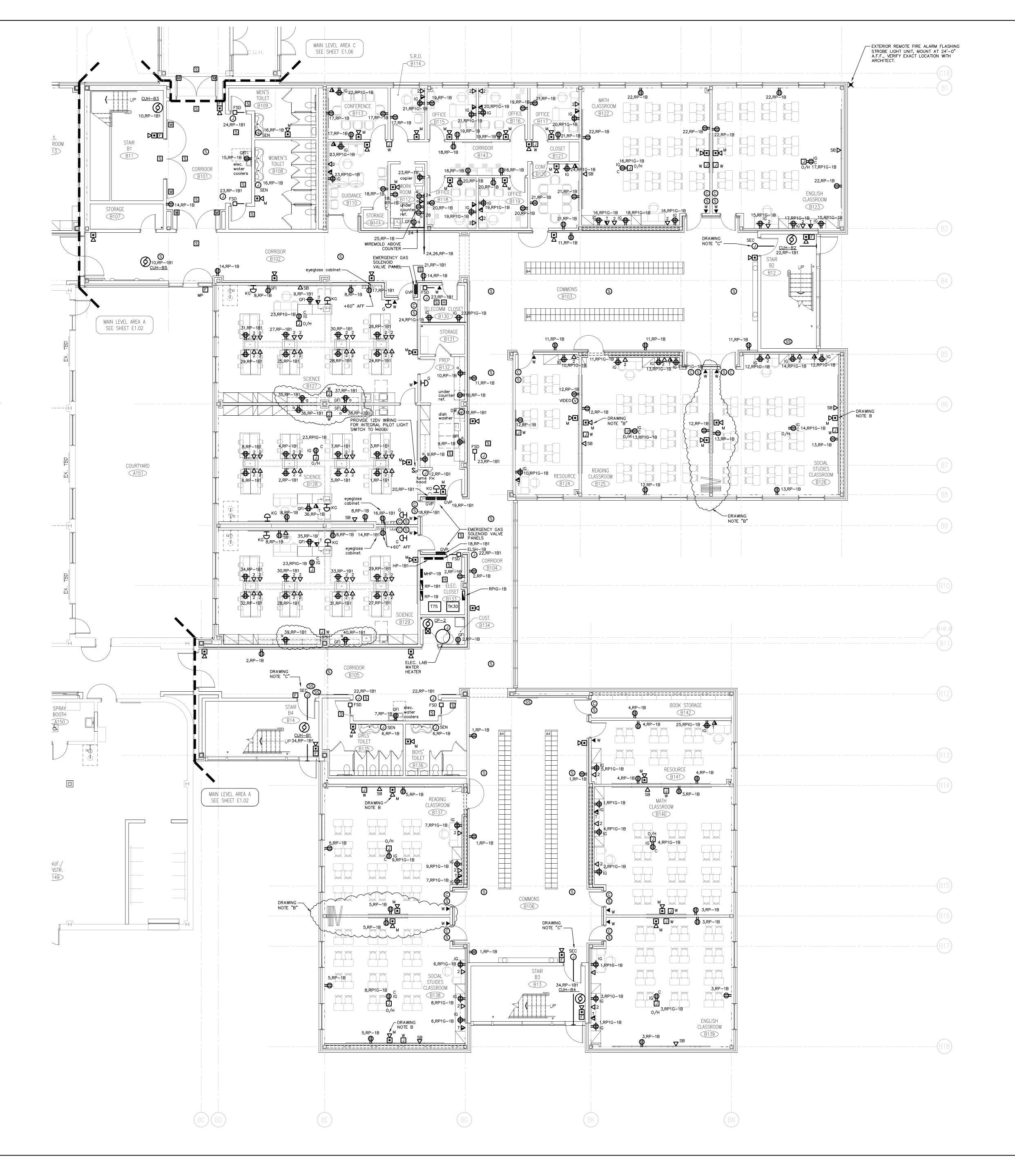
DATE: **SEPTEMBER 9, 2002**

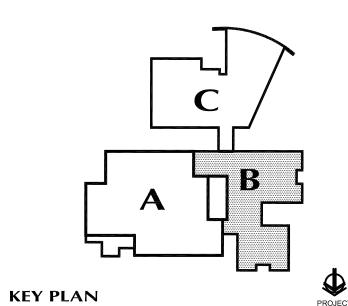
GENERAL POWER NOTES:

- REFER TO DRAWING #E0.00 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO START OF WORK
- 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN
- 4. REFER TO DRAWING E2.01 FOR ELECTRICAL POWER ONE—LINE RISER DIAGRAM.
- 5. REFER TO DRAWING E2.02 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.
- 6. REFER TO DRAWING E2.02 FOR ELECTRICAL SPECIAL SYSTEMS RISER DIAGRAM.
- 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- 8. AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS, (T1 SERIES), FOR ALL DATA/VOICE OUTLET LOCATIONS.
- 9. PROVIDE 2#12, 1#12G., IN 3/4"C TO CLOCK RECEPTACLES FROM LOCAL RECEPTACLE BRANCH CIRCUIT SERVING AREA.

DRAWING NOTES:

- A. JUNCTION BOX FOR ELECTRONIC SENSOR FAUCET, SEE DETAIL ON DRAWING #E3.03.
- B. AS PART OF PROJECT ALTERNATE #1, THE STUD PARTITION INDICATED WILL BE REPLACED WITH A MOVEABLE PARTITION. IF ALTERNATE #1 IS IMPLEMENTED THE ELECTRICAL CONTRACTOR SHALL DELETE DULPEX POWER OUTLETS ON WALL TO BE REPLACED AND RELOCATE FIRE ALARM AUDIO/VISUAL INDICATING UNIT TO OPPOSITE WALL OF ROOM AS SHOWN.
- C. PROVIDE A 3/4" CONDUIT FROM DOOR CONTACT LOCATION TO CEILING PLENUM SPACE AT DOORS INDICATED ON FLOOR PLANS. COORDINATE DOOR CONTACT LOCATIONS WITH DOOR INSTALLER. INSTALLATION OF DOOR CONTACTS AND ALL SECURITY WIRING BY OWNER'S SECURITY SYSTEM VENDOR.





FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS MARK

IE 10, 2002 PHASE 2

SEPTEMBER 9, 2002 PHASE 2

SEPTEMBER 25, 2002 PHASE 2

DECEMBER 16, 2002 PHASE 2

DRAWINGS ISSUED AS
REFERENCE ONLY FOR
PHASE 1 BID

DRAWINGS ISSUED FOR
BIDDING AND
CONSTRUCTION PURPOSES

DESCRIPTION

DRAWINGS ISSUED AS REFERENCE ONLY FOR

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR

PHASE 1 BIDDING



ADDITIONS
AND
RENOVATIONS
RHAM
MIDDLE
SCHOOL

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

VANZELMHEYWOOD& SHADFORDINC MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620
VZHS PROJECT NUMBER: 2000155.01

ASSOCIATES, INC.

ARCHITECTS

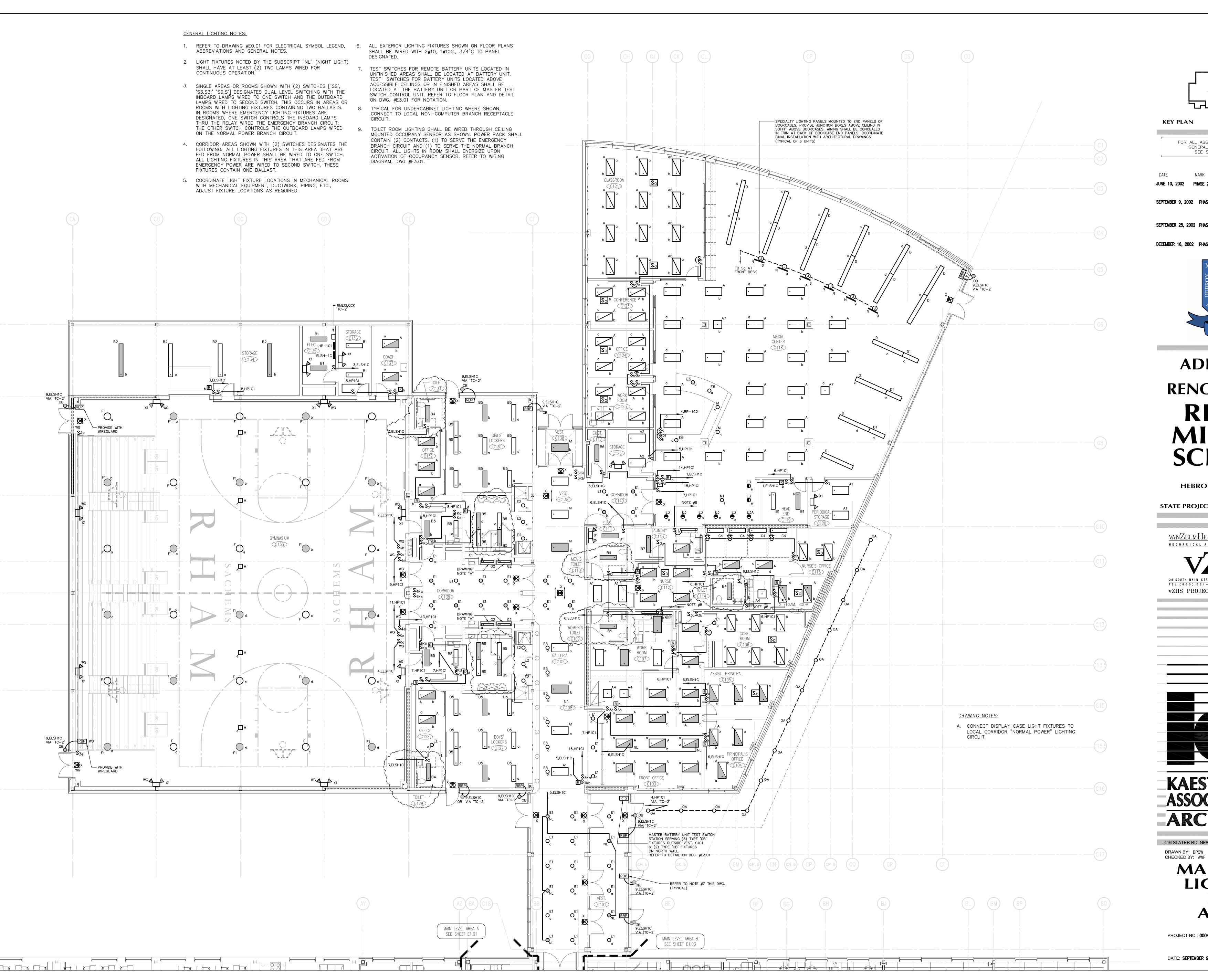
DRAWN BY: RLG CHECKED BY: MWF SCALE: 1/8"=1

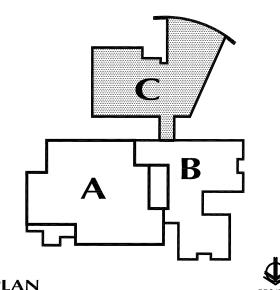
MAIN LEVEL POWER PLAN AREA-B

PROJECT NO.: **00049**

DRAWING NO.:

DATE: SEPTEMBER 9, 2002





FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR

DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1 BID

DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

PHASE 1 BIDDING

REVISIONS DESCRIPTION

DRAWINGS ISSUED AS REFERENCE ONLY FOR

SEPTEMBER 9, 2002 PHASE 2

SEPTEMBER 25, 2002 PHASE 2

DECEMBER 16, 2002 PHASE 2



ADDITIONS RENOVATIONS

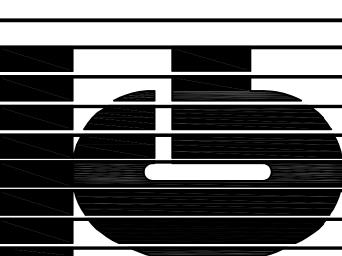
RHAM MIDDLE **SCHOOL**

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.01



ASSOCIATES, INC. ARCHITECTS

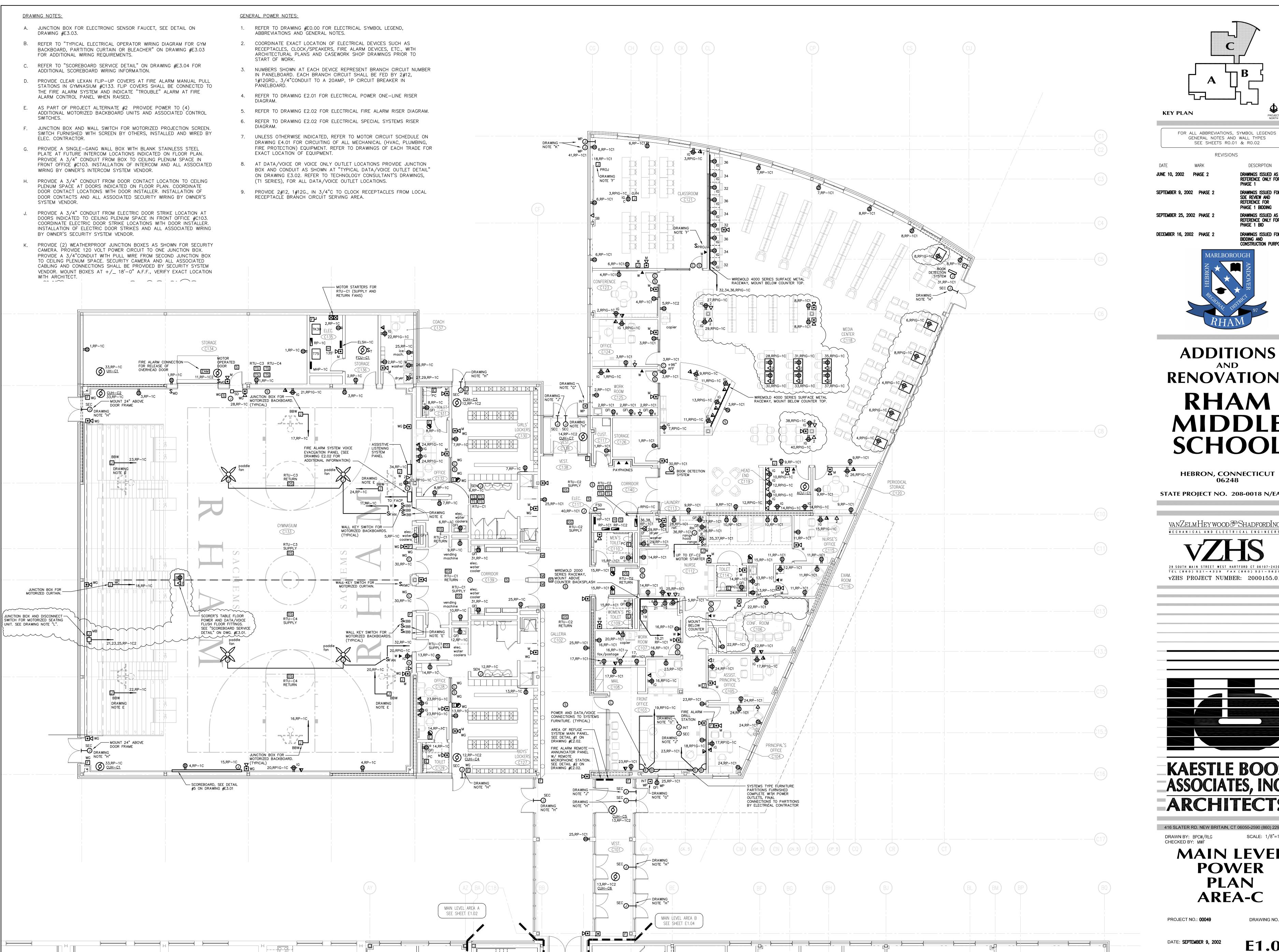
416 SLATER RD. NEW BRITAIN, CT 06050-2590 (860) 229-0361 SCALE: 1/8"=1'-0"

> MAIN LEVEL LIGHTING **PLAN AREA-C**

PROJECT NO.: **00049**

DRAWING NO.:

DATE: **SEPTEMBER 9, 2002**



FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR

PHASE 1 BIDDING

DRAWINGS ISSUED AS

REFERENCE ONLY FOR PHASE 1 BID

REVISIONS MARK

DESCRIPTION DRAWINGS ISSUED AS REFERENCE ONLY FOR

SEPTEMBER 25, 2002 PHASE 2

DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



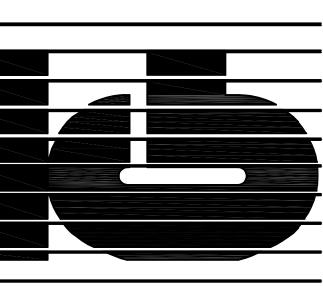
RENOVATIONS RHAM MIDDLE SCHOOL

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

vanZelmHeywood&ShadfordIng MECHANICAL AND ELECTRICAL ENGINEER

vZHS PROJECT NUMBER: 2000155.01



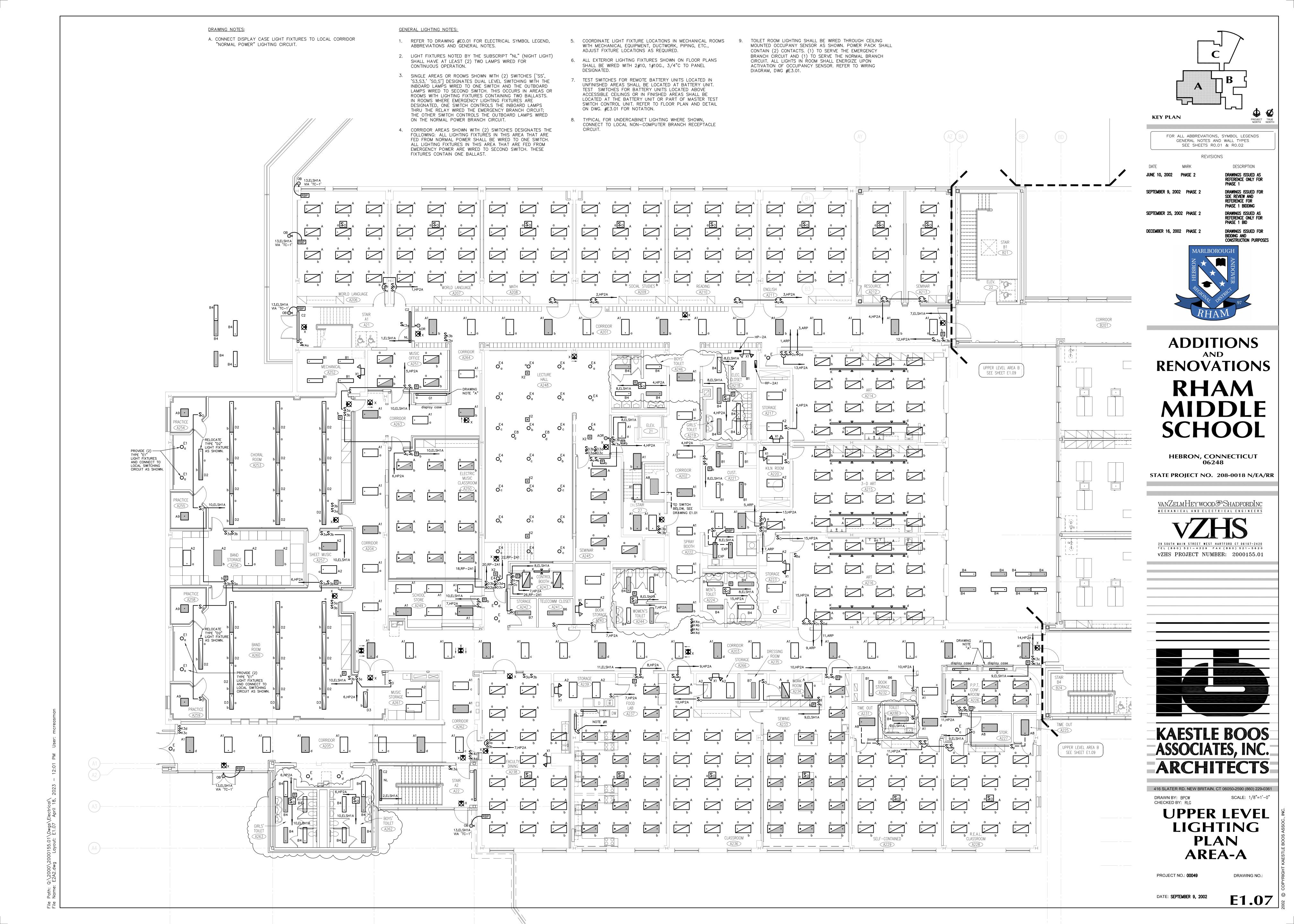
ASSOCIATES, INC. ARCHITECTS

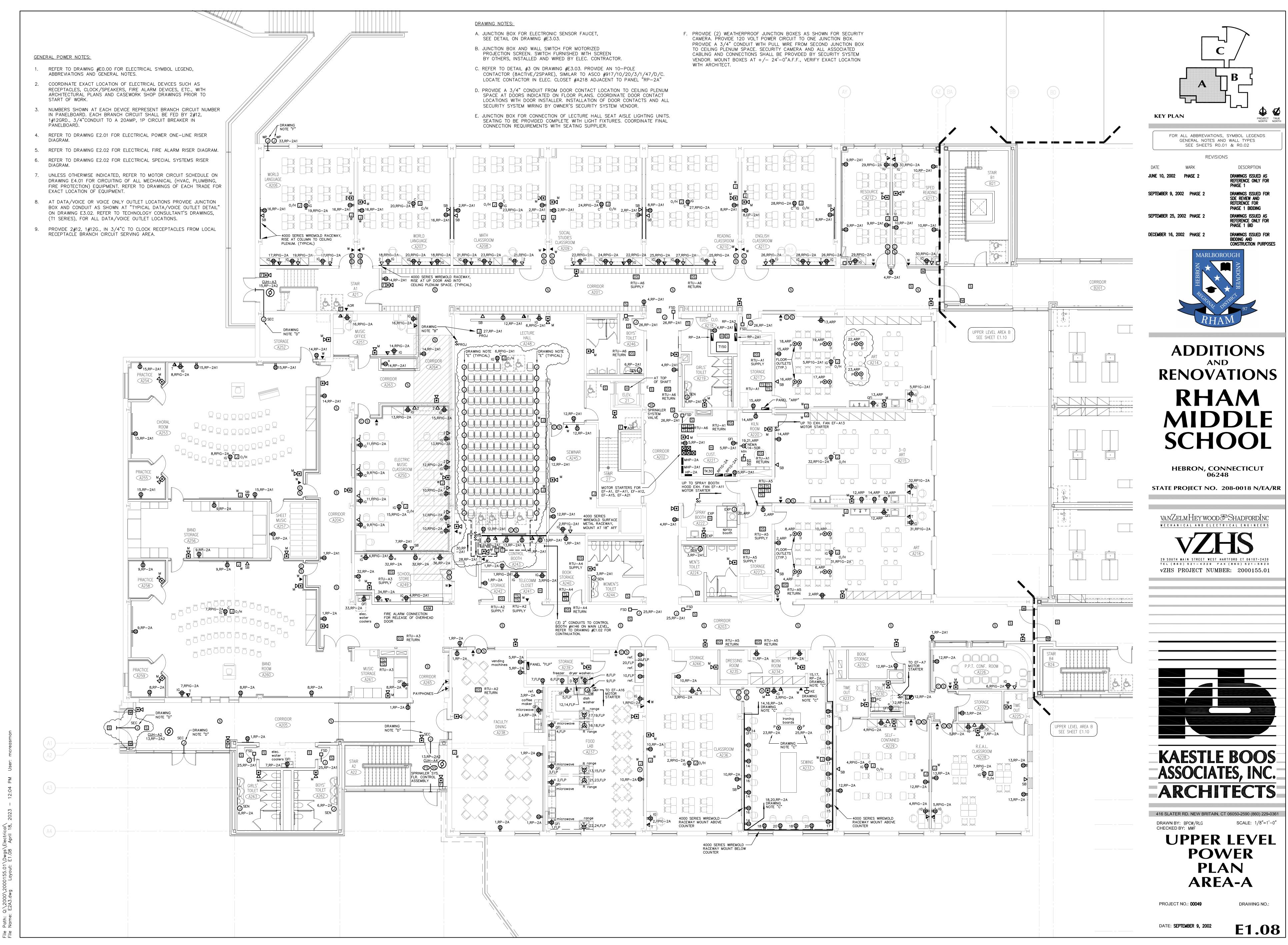
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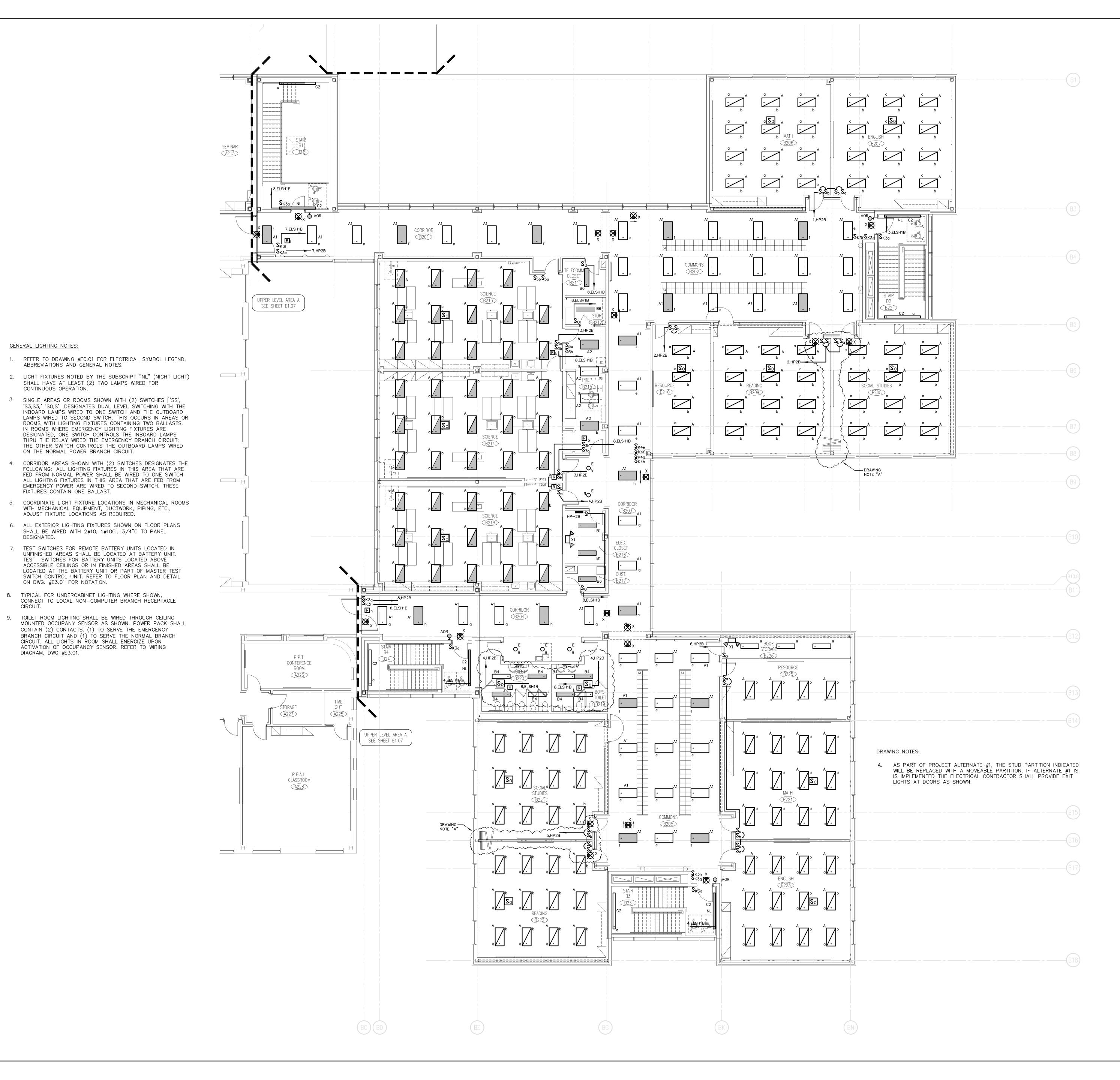
MAIN LEVEL **POWER** PLAN **AREA-C**

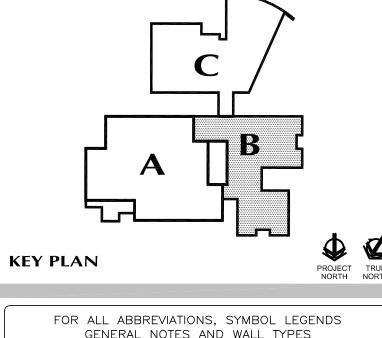
PROJECT NO.: **00049**

DRAWING NO.:









GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

DESCRIPTION

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SEPTEMBER 9, 2002 PHASE 2

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR PHASE 1 BIDDING DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1 BID SEPTEMBER 25, 2002 PHASE 2

DECEMBER 16, 2002 PHASE 2

ADDITIONS

RENOVATIONS RHAM MIDDLE

HEBRON, CONNECTICUT 06248

SCHOOL

STATE PROJECT NO. 208-0018 N/EA/RR

vanZelmHeywood&ShadfordInc MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.01

ASSOCIATES, INC. ARCHITECTS

SCALE: 1/8"=1'-0" **UPPER LEVEL**

LIGHTING **PLAN AREA-B**

PROJECT NO.: **00049**

DRAWING NO.:

DATE: **SEPTEMBER 9, 2002** E1.09

GENERAL LIGHTING NOTES:

ABBREVIATIONS AND GENERAL NOTES.

ON THE NORMAL POWER BRANCH CIRCUIT.

FIXTURES CONTAIN ONE BALLAST.

ON DWG. #E3.01 FOR NOTATION.

DIAGRAM, DWG #E3.01.

CONTINUOUS OPERATION.

SHALL HAVE AT LEAST (2) TWO LAMPS WIRED FOR

IN ROOMS WHERE EMERGENCY LIGHTING FIXTURES ARE

SHALL BE WIRED WITH 2#10, 1#10G., 3/4"C TO PANEL DESIGNATED.

TEST SWITCHES FOR BATTERY UNITS LOCATED ABOVE ACCESSIBLE CEILINGS OR IN FINISHED AREAS SHALL BE

7. TEST SWITCHES FOR REMOTE BATTERY UNITS LOCATED IN

9. TOILET ROOM LIGHTING SHALL BE WIRED THROUGH CEILING

CONTAIN (2) CONTACTS. (1) TO SERVE THE EMERGENCY

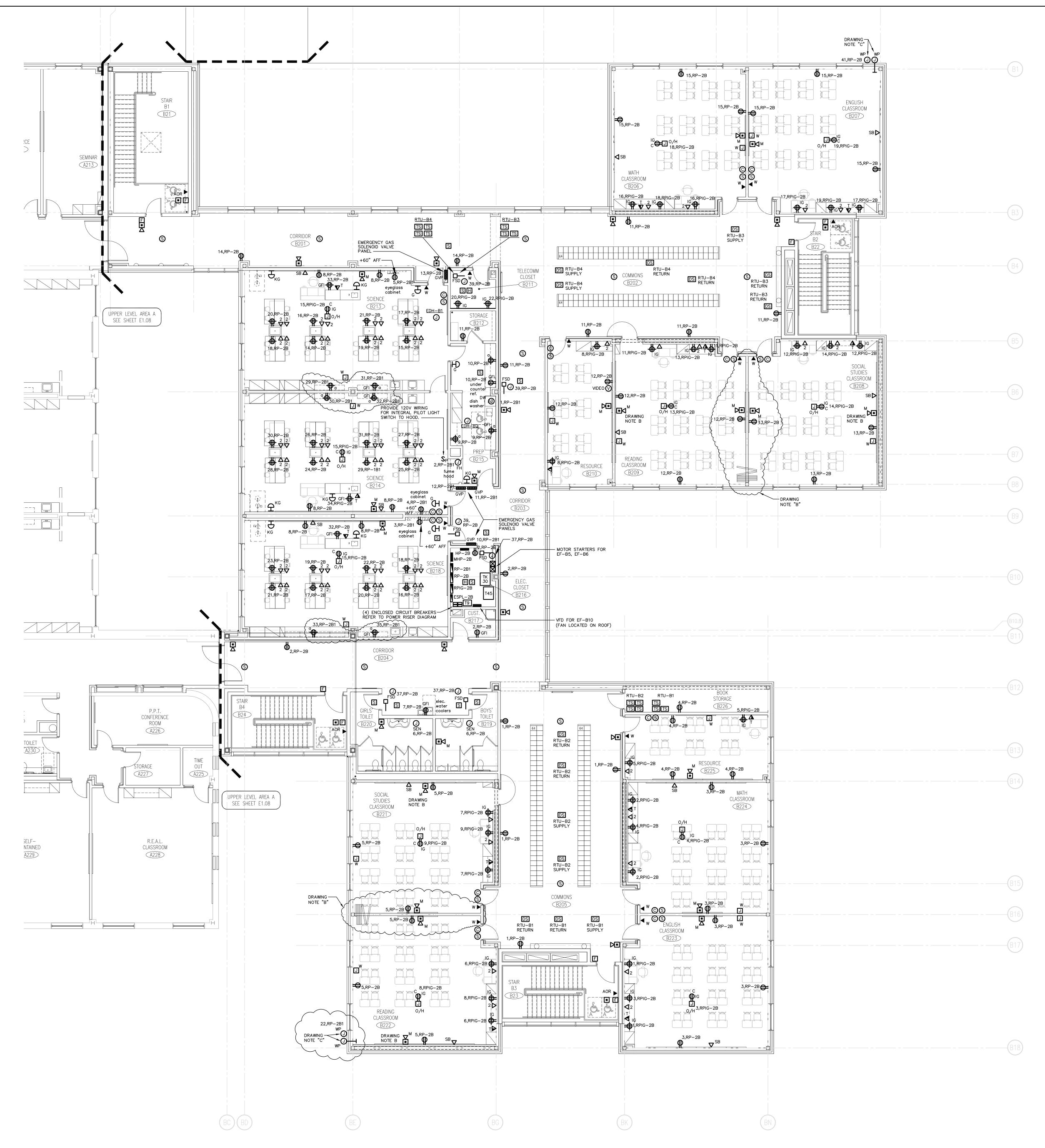
CIRCUIT. ALL LIGHTS IN ROOM SHALL ENERGIZE UPON ACTIVATION OF OCCUPANCY SENSOR. REFER TO WIRING

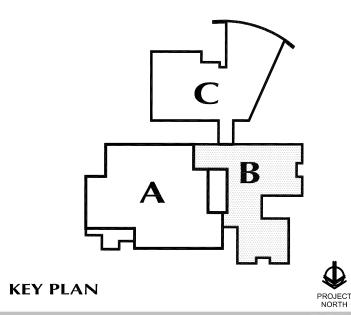
DRAWING NOTES:

- A. JUNCTION BOX FOR ELECTRONIC SENSOR FAUCET, SEE DETAIL ON DRAWING #E3.03.
- AS PART OF PROJECT ALTERNATE #1, THE STUD PARTITION INDICATED WILL BE REPLACED WITH A MOVEABLE PARTITION. IF ALTERNATE #1 IS IMPLEMENTED THE ELECTRICAL CONTRACTOR SHALL DELETE DULPËX POWER OUTLETS ON WALL TO BE REPLACED AND RELOCATE FIRE ALARM AUDIO/VISUAL INDICATING UNIT TO OPPOSITE WALL OF ROOM AS SHOWN.
- PROVIDE (2) WEATHERPROOF JUNCTION BOXES AS SHOWN FOR SECURITY CAMERA. PROVIDE 120 VOLT POWER CIRCUIT TO ONE JUNCTION BOX. PROVIDE A 3/4" CONDUIT WITH PULL WIRE FROM SECOND JUNCTION BOX TO CEILING PLENUM SPACE. SECURITY CAMERA AND ALL ASSOCIATED CABLING AND CONNECTIONS SHALL BE PROVIDED BY SECURITY SYSTEM VENDOR. MOUNT BOXES AT +/- 24'-0" A.F.F., VERIFY EXACT LOCATION WITH ARCHITECT.

GENERAL POWER NOTES:

- 1. REFER TO DRAWING #E0.00 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO START OF WORK.
- 3. NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12, 1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN
- 4. REFER TO DRAWING E2.01 FOR ELECTRICAL POWER ONE-LINE RISER DIAGRAM.
- 5. REFER TO DRAWING E2.02 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.
- REFER TO DRAWING E2.02 FOR ELECTRICAL SPECIAL SYSTEMS RISER DIAGRAM.
- 7. UNLESS OTHERWISE INDICATED, REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR CIRCUITING OF ALL MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) EQUIPMENT. REFER TO DRAWINGS OF EACH TRADE FOR EXACT LOCATION OF EQUIPMENT.
- AT DATA/VOICE OR VOICE ONLY OUTLET LOCATIONS PROVIDE JUNCTION BOX AND CONDUIT AS SHOWN AT "TYPICAL DATA/VOICE OUTLET DETAIL" ON DRAWING E3.02. REFER TO TECHNOLOGY CONSULTANT'S DRAWINGS, (T1 SERIES), FOR ALL DATA/VOICE OUTLET LOCATIONS.
- 9. PROVIDE 2#12, 1#12G., IN 3/4"C TO CLOCK RECEPTACLES FROM LOCAL RECEPTACLE BRANCH CIRCUIT SERVING AREA.





FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS

DESCRIPTION DRAWINGS ISSUED AS REFERENCE ONLY FOR

SEPTEMBER 9, 2002 PHASE 2

DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

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PHASE 1 BIDDING



ADDITIONS RENOVATIONS RHAMMIDDLE SCHOOL

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.01

ASSOCIATES, INC. ARCHITECTS

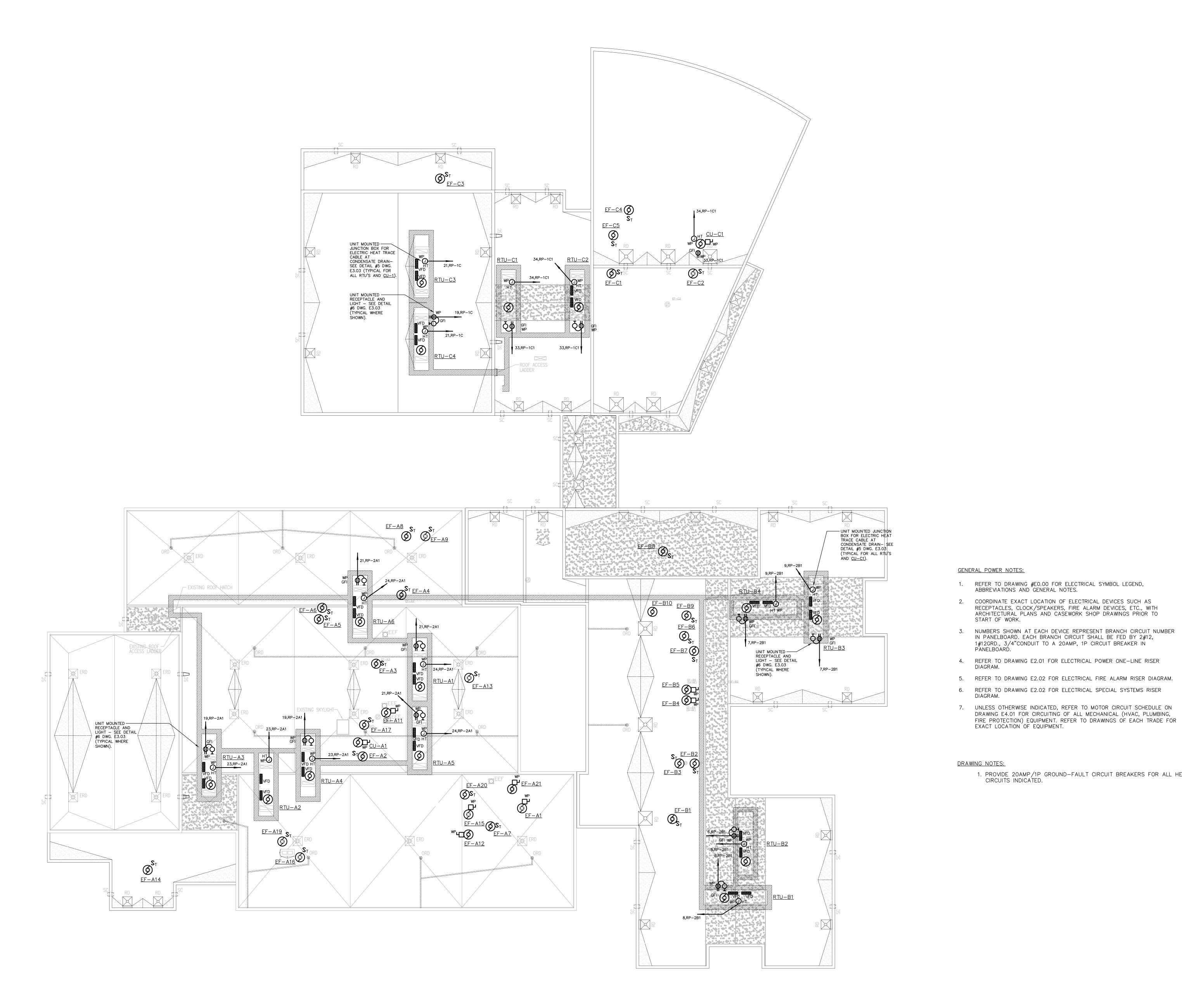
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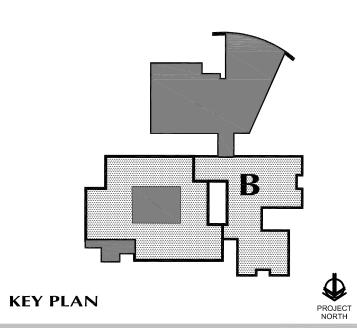
UPPER LEVEL POWER PLAN AREA-B

PROJECT NO.: **00049**

DRAWING NO.:

DATE: **SEPTEMBER 9, 2002**





FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS

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ADDITIONS RENOVATIONS RHAM MIDDLE SCHOOL

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

VANZELMHEY WOOD SHADFORDING

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.01

COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES SUCH AS RECEPTACLES, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC., WITH ARCHITECTURAL PLANS AND CASEWORK SHOP DRAWINGS PRIOR TO START OF WORK.

1#12GRD., 3/4"CONDUIT TO A 20AMP, 1P CIRCUIT BREAKER IN

REFER TO DRAWING E2.01 FOR ELECTRICAL POWER ONE—LINE RISER DIAGRAM.

REFER TO DRAWING E2.02 FOR ELECTRICAL SPECIAL SYSTEMS RISER DIAGRAM.

NUMBERS SHOWN AT EACH DEVICE REPRESENT BRANCH CIRCUIT NUMBER IN PANELBOARD. EACH BRANCH CIRCUIT SHALL BE FED BY 2#12,

REFER TO DRAWING E2.02 FOR ELECTRICAL FIRE ALARM RISER DIAGRAM.

PROVIDE 20AMP/1P GROUND-FAULT CIRCUIT BREAKERS FOR ALL HEAT TRACE CIRCUITS INDICATED.



ASSOCIATES, INC. ARCHITECTS

ELECTRICAL OVERALL ROOF PLAN

PROJECT NO.: **00049**

DRAWING NO.:

E1.11

DATE: **SEPTEMBER 9, 2002**

K - RATED, THREE PHASE TRANSFORMERS

XFMR NUMBER	480 0.C.P.D.	V. PRIMARY (△) 3PH.,3W. PRIMARY FEEDER	0.C.P.D.	0/208V. SECONDARY (貸) 3PH.,4W. SECONDARY FEEDER	GROUND & CONDUIT	KVA RATING
TK15	30A	3#10, 1#10 G., 3/4" C.	50A	3#6, 1#1 N., 1#6 G., 1#6 I.G., 1-1/4" C.	1#6, 3/4" C.	15
TK30	60A	3#6, 1#10 G., 1" C.	100A	3#1, 1#3/0 N, 1#6 G., 1#6 I.G., 2"C. 2" C.	1#6, 3/4" C.	30
TK45	100A	3#4, 1#8 G., 1-1/4" C.	150A	3#1/0, 2#1/0 N., 1#6 G., 1#6 I.G., 2"C.	1#6, 3/4" C.	45
TK75	150A	3#1, 1#6 G., 1-1/2" C.	225A	3#250KCMIL, 2#250KCMIL N., 1#2 G., 1#4 I.G., 3" C.	1#2, 3/4" C.	75
TK112.5	200A	3#2/0, 1#6 G., 2" C.	400A	3#500KCMIL, 2#500KCMIL N., 1#1/0 G., 1#3 I.G., 4" C.	1#1/0, 1 C.	112.5
TK150	250A	3#4/0, 1#4 G., 2" C.	500A	2 SETS OF 3#250KCMIL, 2#250KCMIL N., 1#1/0 G., 1#2 I.G., 3" C.	1#1/0, 1" C.	150
TK225	400A	3#500KCMIL, 1#3 G., 3" C.	800A	2 SETS OF 3#500KCMIL., 2#500KCMIL N., 1#2/0 G., 1#1/0 I.G., 4" C.	1#2/0, 1 C.	225
TK300	600A	2 SETS OF 3#4/0, 1#1 G., 2" C.	1000A	3 SETS OF 3#400KCMIL, 2#400KCMIL N., 1#3/0 G., 1#2/0 I.G., 3-1/2" C.	1#3/0, 1 C.	300

K-RATED TRANSFORMER NOTES:

- TK1. UNLESS OTHERWISE INDICATED ALL TRANSFORMERS HAVE A "K" RATING OF 13, REFER TO SPECIFICATIONS.
- TK2. CONNECT GROUNDING ELECTRODE CONDUCTOR TO THE NEAREST OF THE FOLLOWING: 1. AN EFFECTIVELY GROUNDED STRUCTURAL METAL MEMBER OF THE
 - 2. AN EFFECTIVELY GROUNDED METAL WATER PIPE WITHIN 5FEET FROM
- THE POINT OF ENTRANCE INTO THE BUILDING. TK3. NEUTRAL CONDUCTOR IS RATED 200 PERCENT FOR HARMONIC CURRENTS.
- TK4. REFER TO DISTRIBUTION TRANSFORMER GROUNDING DETAIL.

THREE PHASE TRANSFORMERS

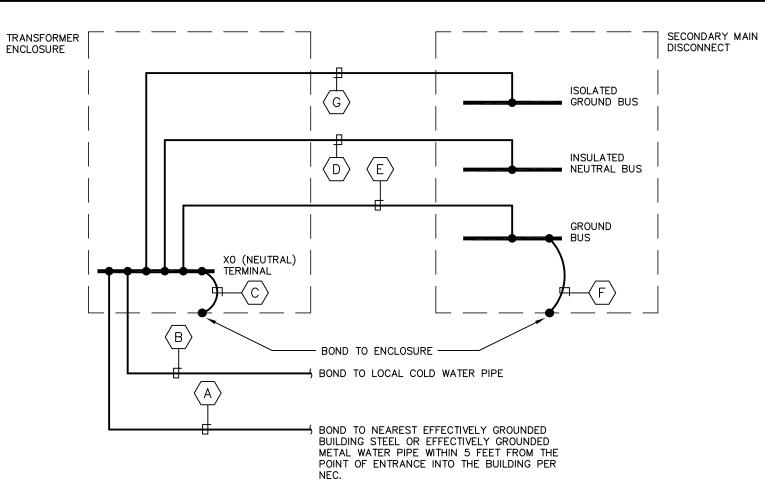
XFMR	480	V. PRIMARY (△) 3PH.,3W.	12	20/208V. SECONDARY (፲) 3PH.,4W.	GROUND	KVA
NUMBER	O.C.P.D.	PRIMARY FEEDER	O.C.P.D.	SECONDARY FEEDER	& CONDUIT	RATING
T15	30A	3#10, 1#10 G., 3/4" C.	50A	3#6, 1#6 N., 1#6 G., 1-1/4" C.	1#6, 3/4" C.	15
Т30	60A	3#6, 1#10 G., 1" C.	100A	3#1, 1#1 N, 1#6 G., 1-1/2" C.	1#6, 3/4" C.	30
T45	100A	3#4, 1#8 G., 1-1/4" C.	150A	3#1/0, 1#1/0 N., 1#6 G., 2" C.	1#6, 3/4" C.	45
T75	150A	3#1, 1#6 G., 1-1/2" C.	225A	3#250KCMIL, 1#250KCMIL N., 1#2 G., 2-1/2" C.	1#2, 3/4" C.	75
T112.5	200A	3#2/0, 1#6 G., 2" C.	400A	3#500KCMIL., 1#500KCMIL N., 1#1/ G., 3-1/2" C.	1#1/0, 1 C.	112.5
T150	250A	3#4/0, 1#4 G., 2" C.	500A	2 SETS OF 3#250KCMIL, 1#250KCMIL N., 1#1/0 G., 2-1/2" C.	1#1/0, 1" C.	150
T225	400A	3#500KCMIL, 1#3 G., 3" C.	800A	2 SETS OF 3#500KCMIL, 1#500KCMIL N., 1#2/0 G., 3-1/2" C.	1#2/0, 1 C.	225
T300	600A	2 SETS OF 3#4/0, 1#1 G., 2" C.	1000A	3 SETS OF 3#400KCMIL, 1#400KCMIL N., 1#3/0 G., 3" C.	1#3/0, 1 C.	300
T500	800A	2 SETS OF 3#500KCMIL, 1#1/0 G., 3" C.	1600A	5 SETS OF 3#400KCMIL, 1#400KCMIL N., 1#250KCMIL G., 3-1/2" C.	1#3/0, 1°C.	500

TRANSFORMER NOTES:

- T1. CONNECT GROUNDING ELECTRODE CONDUCTOR TO THE NEAREST OF THE FOLLOWING:
- 2. AN EFFECTIVELY GROUNDED METAL WATER PIPE WITHIN 5FT. FROM THE POINT OF ENTRANCE INTO THE BUILDING.

1. AN EFFECTIVELY GROUNDED STRUCTURAL METAL MEMBER OF THE

T2. REFER TO DISTRIBUTION TRANSFORMER GROUNDING DETAIL.



- (A) GROUNDING ELECTRODE CONDUCTOR (REFER TO 'GROUND & CONDUIT' COLUMN IN TRANSFORMER
- SCHEDULES FOR CONDUCTOR AND CONDUIT SIZE). B BONDING JUMPER (REFER TO 'GROUND & CONDUIT' COLUMN IN TRANSFORMER SCHEDULES FOR CONDUCTOR AND CONDUIT SIZE).
- C BONDING JUMPER (REFER TO 'GROUND & CONDUIT' COLUMN IN TRANSFORMER SCHEDULES FOR CONDUCTOR SIZE).
- GROUNDED (NEUTRAL) CONDUCTOR (REFER TO 'SECONDARY FEEDER' COLUMN FOR CONDUCTOR SIZE)

INTEGRAL 3P MAIN CONTACTOR

SEE WARNING LABEL 'B'

EMERGENCY LIFE SAFETY — FEEDER FROM HIGH SCHOOL

EMERG. PANEL "LSA1"

TRANSFER SW "ATS-LS2"

SEE WARNING

EMERGENCY STANDBY POWER-

FEEDER FROM HIGH SCHOOL

EMERG. PANEL "EMMDP"

TRANSFER SW •E "ATS-SP2"

INTEGRAL— 3P MAIN CONTACTOR

20A) 20A) 600A) 150A) 150A) 150A) 150A) 100A) 60A) 100A) 350A) 175A) 60A) 350A) 100A) 150A)

L SEE WARNING

PANEL 'MDPH'

1600A, 480/277V 3PH, 4WIRE

EUH-1

TVSS CUSTOMER

1600A

UTILITY

-1600A, 480/277V, 3PH, 4W

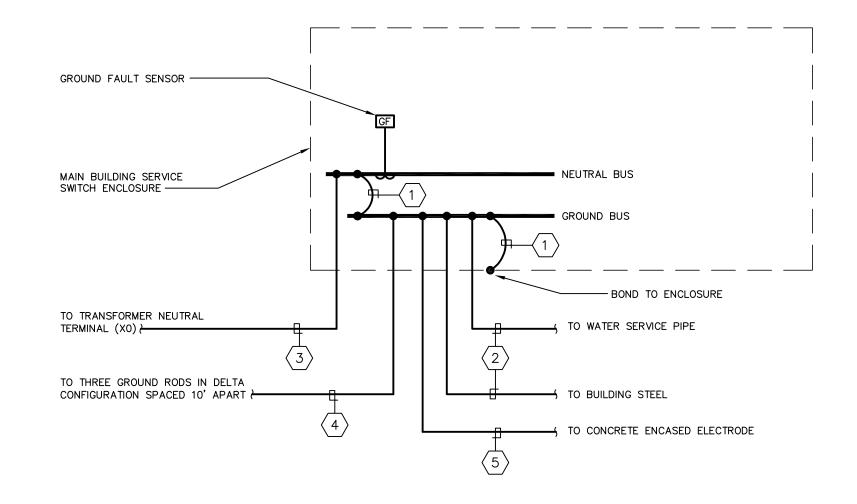
UNDERGROUND SERVICE FROM UTILITY CO. PAD MOUNTED TRANSFORMER.

- E MAIN BONDING JUMPER CONDUCTOR (REFER TO 'GROUND & CONDUIT' COLUMN IN TRANSFORMER SCHEDULES FOR CONDUCTOR SIZE). MAIN BONDING JUMPER CONDUCTOR TO BE RUN IN EACH CONDUIT CONTAINING PHASE CONDUCTORS BETWEEN TRANSFORMER AND MAIN SECONDARY DISCONNECT.
- BONDING JUMPER (REFER TO 'GROUND & CONDUIT' COLUMN IN TRANSFORMER SCHEDULES FOR CONDUCTOR SIZE).
- G ISOLATED EQUIPMENT GROUND CONDUCTOR (REFER TO 'SECONDARY FEEDER' COLUMN IN TRANSFORMER SCHEDULES FOR ISOLATED GROUND CONDUCTOR

DISTRIBUTION TRANSFORMER GROUNDING DETAIL

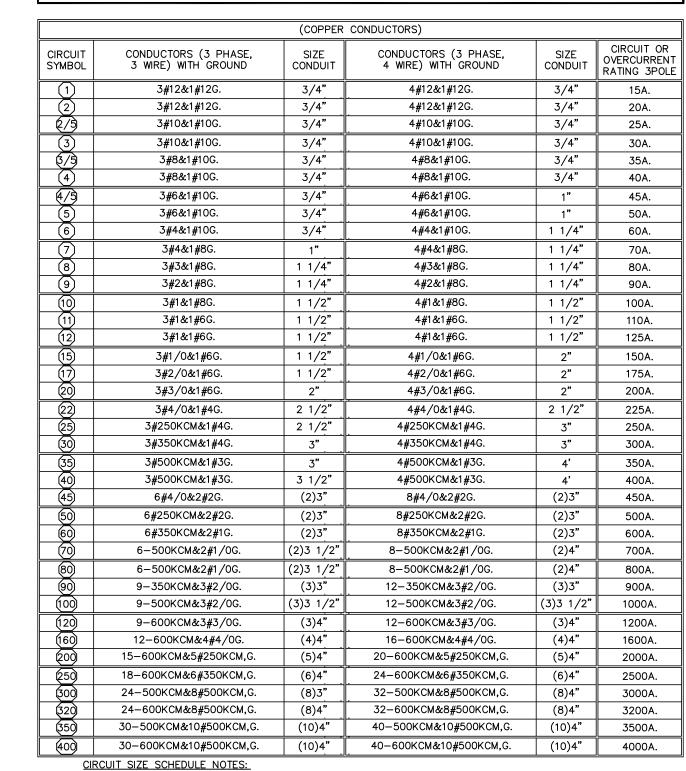
N.T.S.

ISOLATED GROUND BUS AND ASSOCIATED ISOLATED EQUIPMENT GROUND CONDUCTOR SHALL BE PROVIDED BETWEEN K-RATED TRANSFORMERS AND SECONDARY MAIN DISCONNECT SERVING ELECTRONIC GRADE PANELBOARDS WITH INTEGRAL



- (1) MAIN BONDING JUMPER: 300Kcmil
- GROUNDING ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR: #4 AWG
- GROUNDING ELECTRODE SYSTEM BONDING JUMPER CONDUCTOR: #3/0 AWG
- $\langle 3 \rangle$ GROUNDED (NEUTRAL) CONDUCTOR [REFER TO DISTRIBUTION ONE-LINE FOR SIZE].
- SUPPLEMENTAL GROUNDING ELECTRODE BONDING JUMPER CONDUCTOR: #3/0 AWG

MAIN SERVICE GROUNDING DETAIL

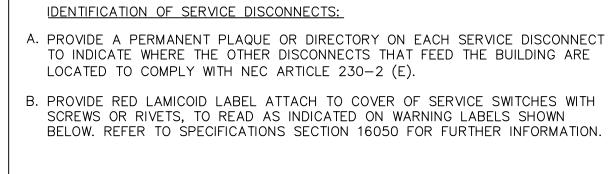


3 PHASE CIRCUIT SIZE SCHEDULE

- CS1. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CIRCUIT WHERE INDICATED.
- CS2. PROVIDE MINIMUM SIZE CONDUIT INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
- CS3. PROVIDE 4 WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL CONNECTION.
- CS4. MINIMUM SIZE CONDUIT UNDERGROUND IS 4 INCH EXCEPT 1 INCH FOR

AND SYSTEMS, UNLESS SPECIFICALLY INDICATED OTHERWISE.

CS5. PROVIDE TYPE OF RACEWAY OR CABLE AS INDICATED IN SPECIFICATIONS OR ON THE DRAWINGS.



TWO OTHER SERVICE DISCONNECTS ARE LOCATED IN THIS ROOM AT 'ELSH-1A', & 'ESPH-1A' TWO OTHER SERVICE DISCONNECTS ARE LOCATED IN THIS ROOM AT 'MDPH', & 'ESPH-1A'

TWO OTHER SERVICE DISCONNECT: ARE LOCATED IN THIS ROOM AT 'ELSH-1A', & 'MDPH'

WARNING LABEL 'C'

AREA 'B'-UPPER LEVEL AREA 'C'- ROOF

AREA 'C'-MAIN LEVEL

POWER RISER DIAGRAM

 $-\sqrt{3}$ (SIZED FOR VOLTAGE DROP)

AREA 'B'-MAIN LEVEL

(REFER TO MOTOR

CIRCUIT SCHEDULE)

POWER RISER NOTES:

- 1. REFER TO PANEL SCHEDULES ON DRAWING #E4.02 FOR ADDITIONAL
- CIRCUIT BREAKER REQUIREMENTS FOR PANELS. 2. ALL CIRCUIT BREAKERS INDICATED ARE 3 POLE UNLESS NOTED

EXISTING ELEVATOR

AREA 'A'-MAIN LEVEL

AREA 'A'-UPPER LEVEL

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS

DATE MARK

SEPTEMBER 9, 2002 PHASE 2

DECEMBER 16, 2002 PHASE 2

DRAWINGS ISSUED FOR **BIDDING AND** CONSTRUCTION PURPOSES

DESCRIPTION

DRAWINGS ISSUED AS

REFERENCE ONLY FOR

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR

PHASE 1 BIDDING

DRAWINGS ISSUED AS

REFERENCE ONLY FOR



ADDITIONS RENOVATIONS RHAM MIDDLE **SCHOOL**

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

vanZelmHeywood&ShadfordInc MECHANICAL AND ELECTRICAL ENGINEER

vZHS PROJECT NUMBER: 2000155.01

KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

416 SLATER RD. NEW BRITAIN, CT 06050-2590 (860) 229-0361 DRAWN BY: JWJ/RLG CHECKED BY: MWF

ELECTRICAL POWER RISER DIAGRAM & **SCHEDULES**

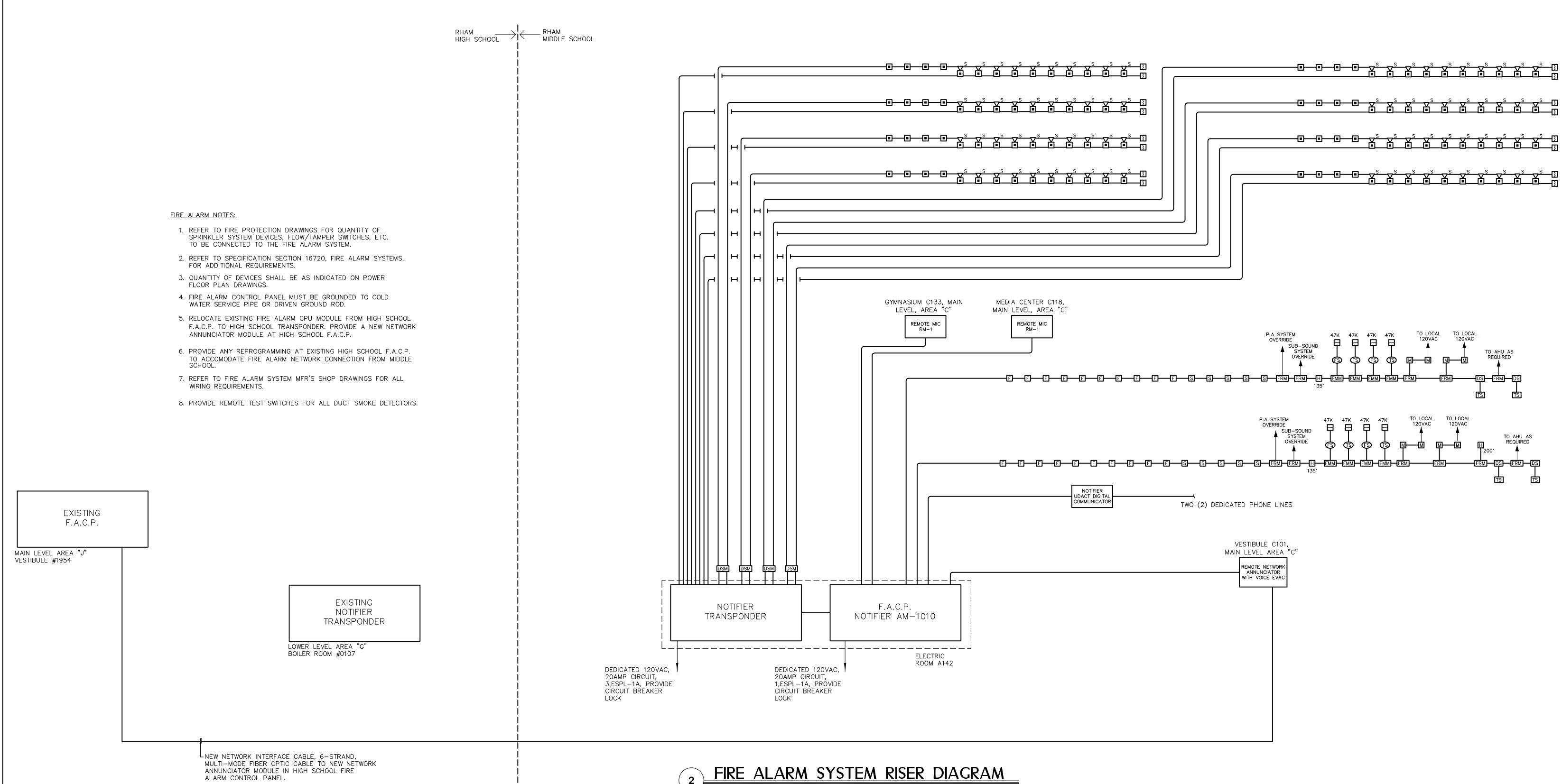
PROJECT NO.: **00049**

DRAWING NO.:

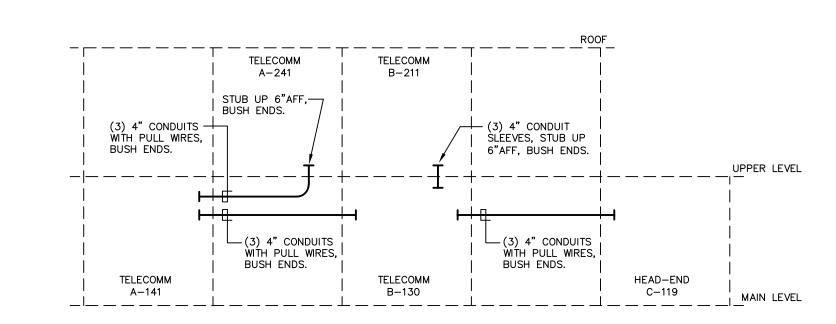
SCALE: AS NOTED

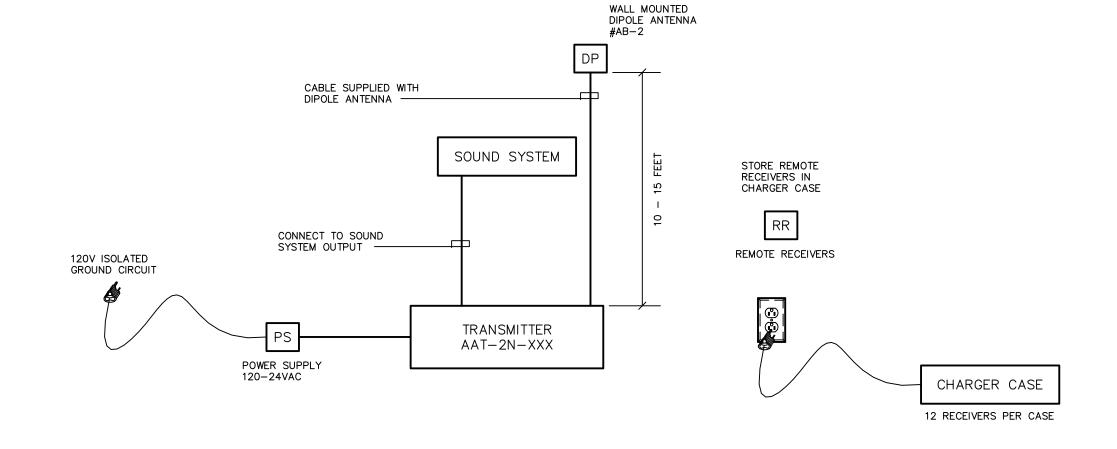
DATE: **SEPTEMBER 9, 2002**

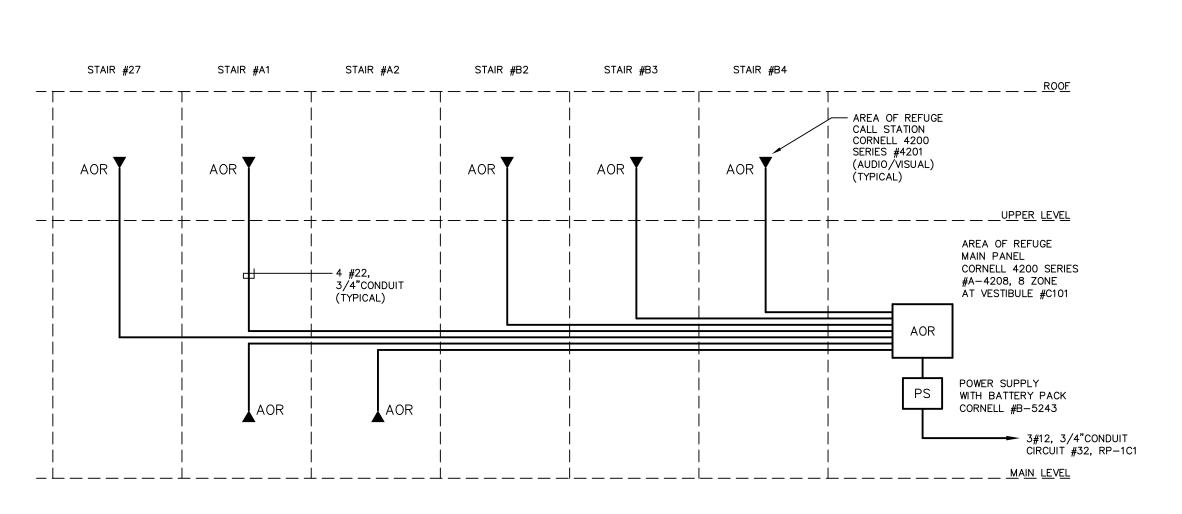
E2.01



FIRE ALARM SYSTEM RISER DIAGRAM







TELECOMM CONDUIT RISER DIAGRAM

DETAIL NOTES:

- 1. ROUTE HORIZONTAL CONDUIT RUNS ABOVE MAIN LEVEL CORRIDOR CEILINGS. 2. PROVIDE PULLBOX FOR ALL CONDUIT RUNS AFTER MAXIMUM OF (2) 90° ELBOWS OR ON ANY CONDUIT RUN LENGTHS THAT EXCEED 200 LINEAR
- 3. VERIFY CONDUIT TERMINATION POINTS AND SLEEVE LOCATIONS WITH TELCOM DRAWINGS PRIOR TO INSTALLATION.

ASSISTIVE LISTENING SYSTEM WIRING DIAGRAM

<u>DETAIL NOTES:</u>

- 1. EQUIPMENT AS MANUFACTURED BY TELEX EQUIPMENT OR EQUAL.
- 2. PROVIDE SYSTEM IN GYMNASIUM.

CABINET IN GYMNASIUM.

- 3. MOUNT GYMNASIUM TRANSMITTER AND RECEIVER IN FREE STANDING
- 4. COORDINATE LOCATION OF DIPOLE ANTENNA WITH ARCHITECT. LOCATE IN CENTER OF GYMNASIUM.
- 5. REFER TO SPECIFICATION 16600, "SPECIAL SYSTEMS" FOR ADDITIONAL INFORMATION.

AREA OF REFUGE TELEPHONE RISER DIAGRAM

1. ALL CATALOG NUMBERS ARE BASED ON CORNELL COMMUNICATIONS INC. EQUIPMENT. 2. REFER TO SPECIFICATION SECTION 16600, "SPECIAL SYSTEMS", FOR ADDITIONAL INFORMATION. 3. SYSTEM SPECIFIED PROVIDES "TWO-WAY" COMMUNICATION WITH FULL AUDIO AND VISUAL CAPABILITY FROM EACH CALL STATION TO MAIN PANEL.

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

DESCRIPTION

DRAWINGS ISSUED AS REFERENCE ONLY FOR

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR

DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1 BID

PHASE 1 BIDDING

REVISIONS MARK

SEPTEMBER 9, 2002 PHASE 2

SEPTEMBER 25, 2002 PHASE 2

DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES MARLBOROUGE

ADDITIONS RENOVATIONS RHAM MIDDLE **SCHOOL**

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

vanZelmHeywood&ShadfordInc

TEL (860) 521-4329 FAX (860) 521-5620

vZHS PROJECT NUMBER: 2000155.01

MECHANICAL AND ELECTRICAL ENGINEER

KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

416 SLATER RD. NEW BRITAIN, CT 06050-2590 (860) 229-0361 DRAWN BY: JWJ/RLG CHECKED BY: MWF

ELECTRICAL SPECIAL SYSTEMS RISER **DIAGRAMS**

PROJECT NO.: **00049**

DRAWING NO.:

SCALE: AS NOTED

DATE: **SEPTEMBER 9, 2002**

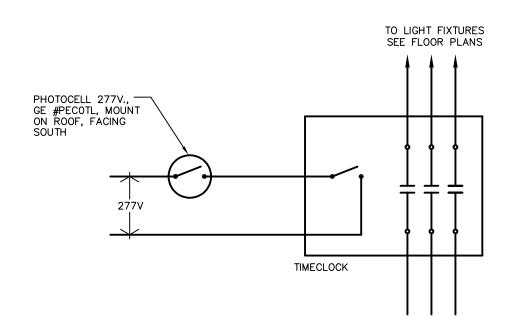
E2.02

TYPICAL LIGHTING CONTROL WIRING DIAGRAM FOR AREAS WITH DUAL

LIGHT LEVELS AND EMERGENCY LIGHTING

DETAIL NOTES:

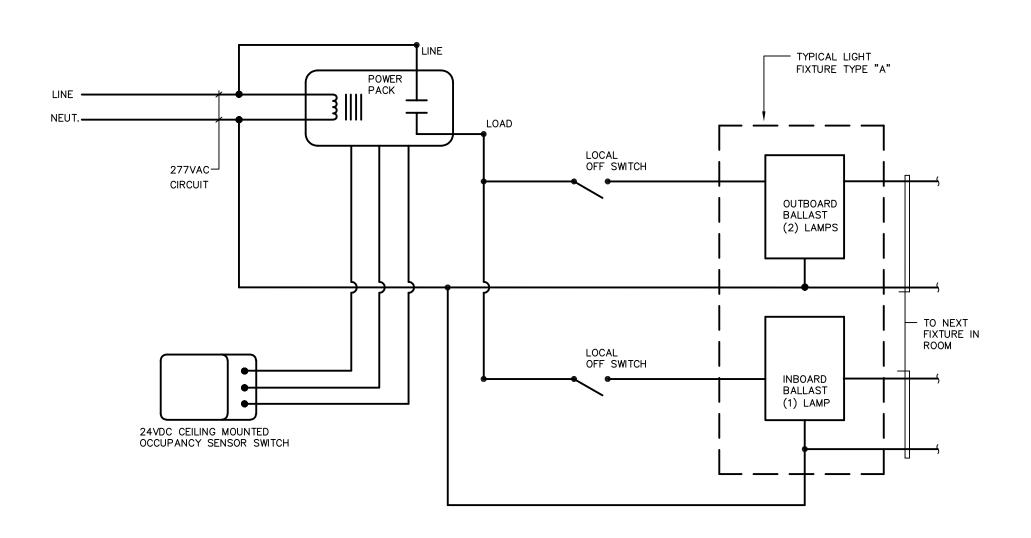
- 1. DETAIL IS TYPICAL AREAS WHERE LIGHTING CONSISTS OF RECESSED, GRID MOUNTED, 2' x 4' PARABOLIC TROFFER LIGHT FIXTURES EACH WITH (3) LAMPS AND (2) BALLASTS. OPERATION OF LIGHTING SHALL BE AS
- A. ALL FIXTURES WITHIN ROOM ARE CONTROLLED BY THE ROOM OCCUPANCY SENSOR SWITCH. ON ENTERING THE ROOM ALL THE LAMPS IN ALL THE FIXTURES SHALL TURN ON.
- B. THE LIGHT LEVEL CAN BE MANUALLY ADJUSTED BY USING EITHER OF (2) WALL SWITCHES TO TURN OFF THE CENTER OR OUTBOARD LAMPS OF EACH FIXTURE. IF THE WALL SWITCHES ARE LEFT IN THE OFF POSITION THE LIGHTS WILL NOT AUTOMATICALLY TURN ON FROM THE SENSOR SWITCH UPON RE-ENTRY TO ROOM, BUT CAN BE MANUALLY OPERATED.
- C. IN ADDITION, PROVIDE A 20AMP SPDT RELAY AT EMERGENCY CIRCUIT TO BYPASS WALL SWITCH AND TURN ON EMERGENCY LAMPS REGARDLESS OF SWITCH POSITION ON LOSS OF NORMAL POWER TO ROOM.
- D. AFTER THE SENSOR SWITCH HAS DETECTED NO ACTIVITY WITHIN THE ROOM FOR AN APPROPRIATE TIME PERIOD, ALL THE LAMPS IN ALL THE FIXTURES SHALL TURN OFF.
- E. DIAGRAM IS BASED ON WATTSTOPPER EQUIPMENT, COORDINATE FINAL WIRING REQUIREMENTS WITH APPROVED SUBMITTALS.
- F. DETAIL SIMILAR FOR ALL ROOMS WITH TWO LEVEL SWITCHING, OCCUPANCY SENSORS, AND EMERGENCY POWER WHERE INDICATED ON FLOOR PLANS.



EXTERIOR LIGHTING CONTROL DIAGRAM

<u>DETAIL NOTES :</u>

1. EXTERIOR LIGHTING CIRCUITS SHALL BE WIRED FOR PHOTOCELL "ON" AND TIMECLOCK "OFF" OPERATION

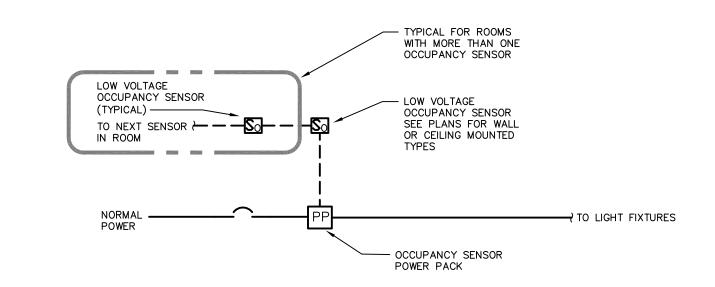


TYPICAL LIGHTING CONTROL WIRING DIAGRAM FOR AREAS WITH DUAL

LICHT LEVELS

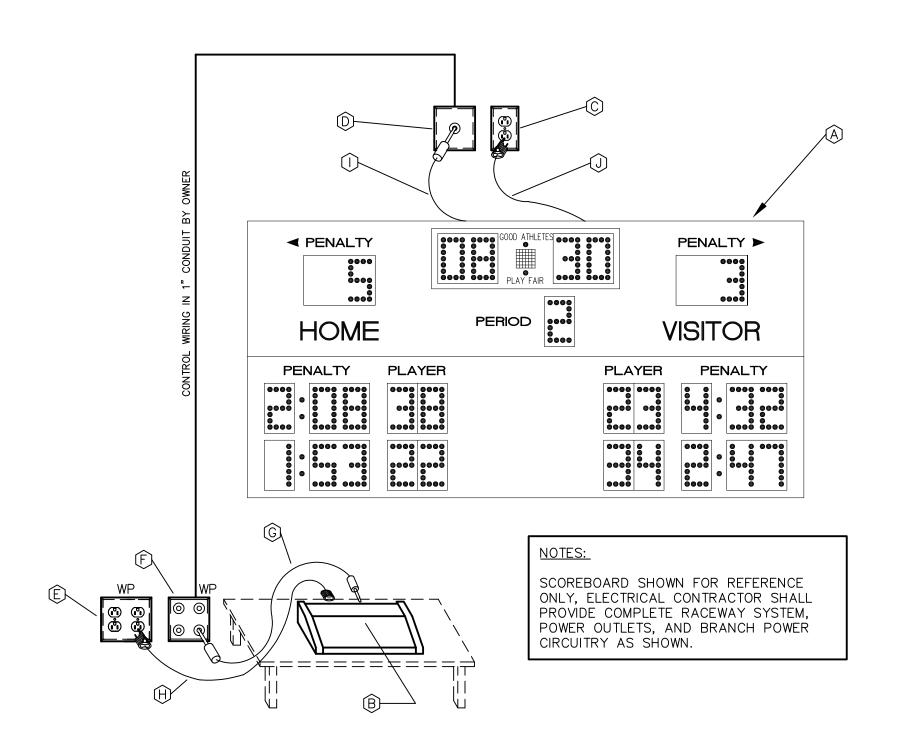
DETAIL NOTES:

- 1. DETAIL IS TYPICAL AREAS WHERE LIGHTING CONSISTS OF RECESSED, GRID MOUNTED, 2' x 4' PARABOLIC TROFFER LIGHT FIXTURES EACH WITH (3) LAMPS AND (2) BALLASTS. OPERATION OF LIGHTING SHALL BE AS
- A. ALL FIXTURES WITHIN ROOM ARE CONTROLLED BY THE ROOM OCCUPANCY SENSOR SWITCH. ON ENTERING THE ROOM ALL THE LAMPS IN ALL THE FIXTURES SHALL TURN ON.
- B. THE LIGHT LEVEL CAN BE MANUALLY ADJUSTED BY USING EITHER OF (2) WALL SWITCHES TO TURN OFF THE CENTER OR OUTBOARD LAMPS OF EACH FIXTURE. IF THE WALL SWITCHES ARE LEFT IN THE OFF POSITION THE LIGHTS WILL NOT AUTOMATICALLY TURN ON FROM THE SENSOR SWITCH UPON RE-ENTRY TO ROOM, BUT CAN BE MANUALLY OPERATED.
- C. AFTER THE SENSOR SWITCH HAS DETECTED NO ACTIVITY WITHIN THE ROOM FOR AN APPROPRIATE TIME PERIOD, ALL THE LAMPS IN ALL THE FIXTURES SHALL TURN OFF.
- D. DIAGRAM IS BASED ON WATTSTOPPER EQUIPMENT, COORDINATE FINAL WIRING REQUIREMENTS WITH APPROVED SUBMITTALS.
- E. DETAIL SIMILAR FOR ROOMS WITH TWO LEVEL SWITCHING AND OCCUPANCY SENSORS WHERE INDICATED ON FLOOR PLANS.



OCCUPANCY SENSOR DETAIL

1. REFER TO SPECIFICATION SECTION 16050, FOR ADDITIONAL INFORMATION.



SCOREBOARD SERVICE DETAIL

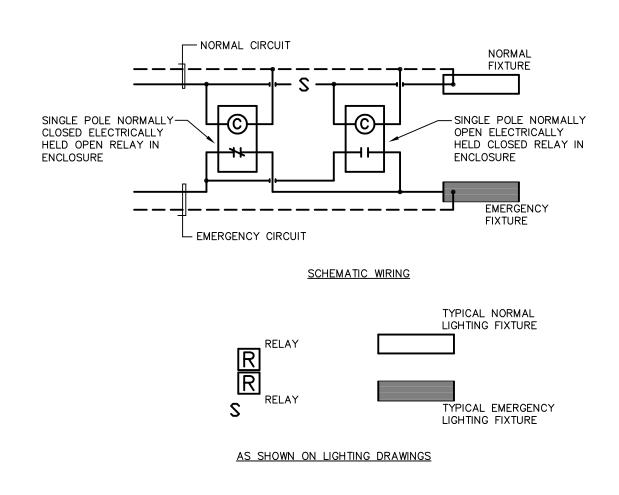
SCOREBOARD DETAIL NOTES:

- (A) SCOREBOARD, FURNISHED AND INSTALLED BY OWNER.
- (B) CONTROL CONSOLE, PORTABLE, BY OWNER.
- © SCOREBOARD POWER OUTLET WITH 120 VOLT POWER PROVISION, WP OUTLET W/ FLIP COVERS.
- (D) SCOREBOARD CONTROL PLUG-IN JACK, JUNCTION BOX IN 4"x4"x2-1/8" OUTLET BOX, PLUG-IN JACK AND PLATE BY
- (E) CONTROL CONSOLE POWER OUTLET WITH 120 VOLT POWER PROVISION, WP OUTLET W/ FLIP COVERS.
- (F) CONTROL CONSOLE PLUG-IN JACK, WITH (4) PLUG-IN
- MODULES. INSTALL IN 4"x4"x2-1/8" OUTLET BOX. G CONTROL CONSOLE CONTROL CABLE, BY OWNER.
- (H) CONTROL CONSOLE POWER CABLE, BY OWNER.
- () SCOREBOARD CONTROL CABLE, BY OWNER. SCOREBOARD POWER CABLE, BY OWNER.

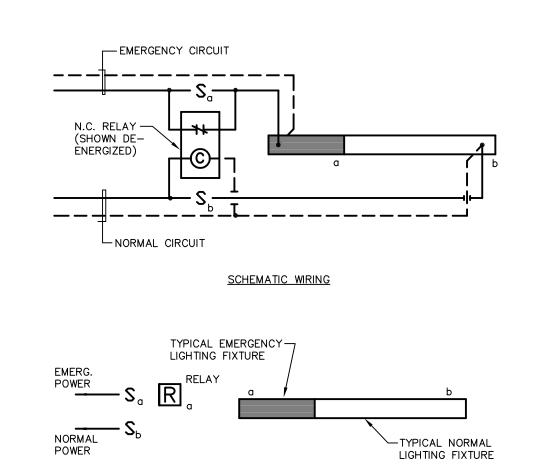
ROOM LUMINAIRE SWITCH AND/OR LIGHTING FIXTURE PHOTOCELL/TIMECLOCK CONTROL , (TYPICAL) —— (SEE FLOOR PLANS FOR REQUIREMENTS) REMOTE EMERGENCY BATTERY UNIT (TYPICAL) - RBP TO 20A-1P BREAKER TO 20A-1P BREAKER (CIRCUIT 2) — SWITCHED HOT UNSWITCHED HOT TO ACCOMMODATE EMERGENCY BALLAST POWER MONITORING

1. TWO CIRCUIT CENTRALLY KEYED REMOTE TEST SWITCH, MOUNT AT 12" BELOW FINISHED CEILING TO CENTERLINE OR 7'-0" TO CENTERLINE AFF IF CEILING IS OVER 8'-0". COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO BODINE MODEL 'KTS-PL' OR APPROVED EQUAL.

CENTRAL KEYED REMOTE TEST SWITCH AND EMERGENCY BALLAST WIRING DIAGRAM

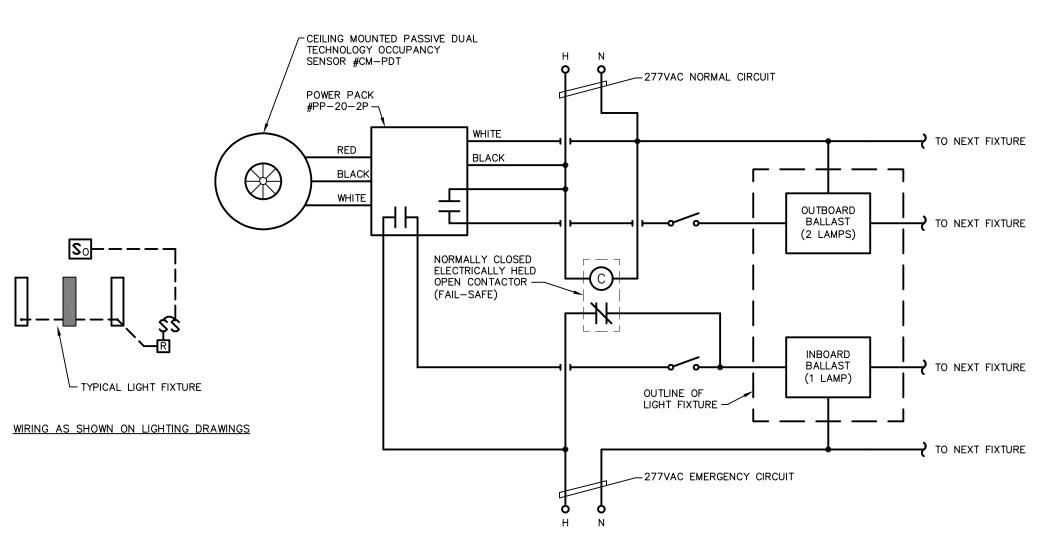


EMERGENCY LIGHTING SINGLE RELAY WIRING DIAGRAM



EMERGENCY LIGHTING SINGLE RELAY WIRING DIAGRAM

AS SHOWN ON LIGHTING DRAWINGS



NOTE: DETAIL AND MODEL NUMBERS ARE BASED ON 'SENSORSWITCH'.

SENSOR CONTROLLED NORMAL/EMERG. DUAL SWITCHING WIRING DIAGRAM

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS MARK

SEPTEMBER 9, 2002 PHASE 2

DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1 BID DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

DESCRIPTION

DRAWINGS ISSUED AS REFERENCE ONLY FOR

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR

PHASE 1 BIDDING



ADDITIONS RENOVATIONS RHAM MIDDLE SCHOOL

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

vanZelmHeywood&ShadfordInc MECHANICAL AND ELECTRICAL ENGINEER

TEL (860) 521-4329 FAX (860) 521-5620

vZHS PROJECT NUMBER: 2000155.01

KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

416 SLATER RD. NEW BRITAIN, CT 06050-2590 (860) 229-0361 DRAWN BY: RLG CHECKED BY: MWF

ELECTRICAL DETAILS

PROJECT NO.: **00049**

DRAWING NO.:

DATE: **SEPTEMBER 9, 2002**

E3.01

SCALE: AS NOTED

TYPICAL CLASSROOM RACEWAY SYSTEM

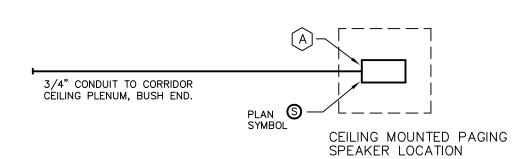
DETAIL AT SMARTBOARD/PROJECTOR

DETAIL NOTES:

- (A) NOT USI
- B ISOLATED GROUND TYPE DOUBLE DUPLEX POWER OUTLET.
- © ISOLATED GROUND TYPE DUPLEX POWER OUTLET,
 MOUNTED FLUSH IN CEILING.
- D TWO GANG ELECTRICAL BOX, WALL MOUNTED,
- WITH SINGLE GANG "MUD RING" COVER PLATE
- E TWO GANG ELECTRICAL BOX, WALL MOUNTED.
- F TWO GANG ELECTRICAL BOX, MOUNTED FLUSH

ALL POWER OUTLETS, CONDUIT RUNS, SINGLE AND TWO GANG BOXES TO BE FURNISHED AND INSTALLED BY ELEC CONTR. ALL COMM. DEVICES, COMM. DEVICE PLATES, COMM. CABLING AND CONNECTIONS AT SINGLE AND TWO GANG BOXES TO BE FURNISHED BY OTHERS.

REFER TO ARCHITECTURAL AND TECHNOLOGY DRAWINGS FOR LOCATION REQUIREMENTS AND ADDITIONAL INFORMATION.

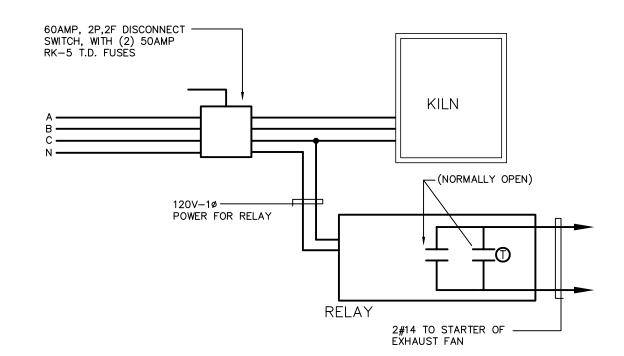


TYPICAL CEILING MOUNTED PAGING

9 SYSTEM SPEAKER DETAIL

DETAIL NOTES:

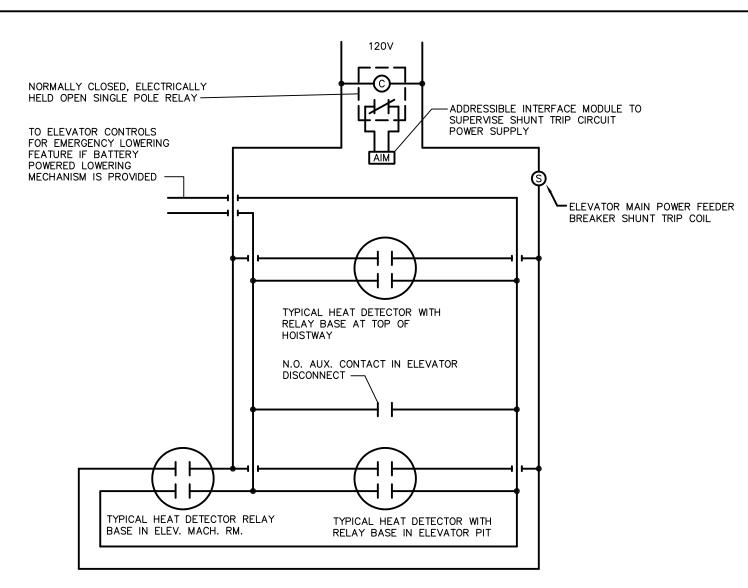
- A SINGLE GANG ELECTRICAL BOX, FLUSH MOUNTED
- ALL SPEAKERS, ENCLOSURES, CABLING AND CONNECTIONS AT SINGLE GANG BOXES TO BE FURNISHED BY OTHERS.
- REFER TO ARCHITECTURAL AND TECHNOLOGY DRAWINGS FOR LOCATION REQUIREMENTS AND ADDITIONAL INFORMATION.



8 KILN EXHAUST FAN WIRING DIAGRAM

DETAIL NOTE:

THE KILN EXHAUST FAN SHALL BE WIRED AS FOLLOWS: WHEN THE EXTERNAL KILN DISCONNECT SWITCH IS PLACED IN THE "ON" POSITION, RELAY CLOSES CONTACT ENABLING ASSOCIATED EXHAUST FAN STARTER TO ACTIVATE FAN ON SIGNAL FROM REVERSE—ACTING THERMOSTAT IN ROOM. AS THE TEMPERATURE RISES IN ROOM, THE THERMOSTAT CONTACT CLOSES AND STARTS THE FAN. WHEN THE INTEGRAL KILN CONTROL SWITCH IS DEACTIVATED, THE FAN REMAINS ON THROUGH THE THERMOSTAT CONTACT. AS THE ROOM TEMPERATURE DROPS BELOW THE THERMOSTAT SET POINT, THERMOSTAT CONTACT OPENS AND THE EXHAUST FAN SHUTS OFF.

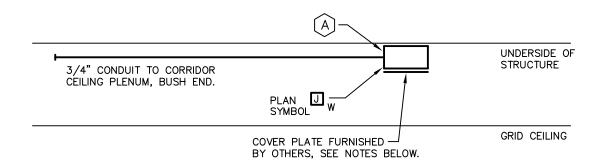


ELEVATOR MAIN POWER FEEDER

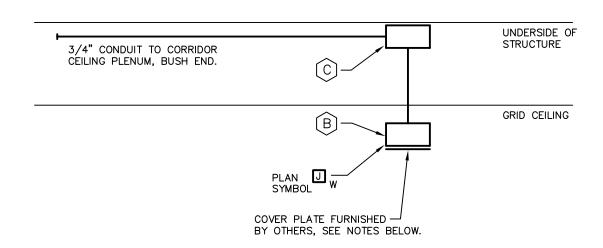
7 EMERGENCY DISCONNECT WIRING DIAGRAM

1. RELAY BASE AUXILARY CONTACTS ARE WIRED IN PARALLEL SO THAT ANY
(1) INITIATING DEVICE WILL ACTIVATE SHUNT TRIP.

2. REFER TO SPECIFICATION SECTION 16600 FOR ADDITIONAL INFORMATION.



TYPICAL FOR NON-PLENUM CEILING AREAS



TYPICAL FOR PLENUM AIR RETURN CEILING AREAS

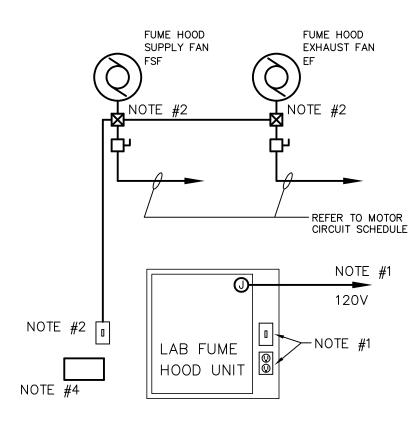
TYPICAL CEILING MOUNTED TECHNOLOGY

SYSTEM WIRELESS DEVICE DETAIL

DETAIL NOTES:

- A SINGLE GANG ELECTRICAL BOX, SURFACE MOUNTED AT UNDERSIDE OF STRUCTURAL DECK ABOVE CEILING.
- B SINGLE GANG WIREMOLD SURFACE MOUNTED ELECTRICAL BOX, MOUNTED HIGH ON WALL BELOW GRID CEILING. EXTEND WIREMOLD #700 SERIES SURFACE METAL RACEWAY FROM BOX TO SINGLE GANG ELECTRICAL BOX ABOVE GRID CEILING. SURFACE BOX AND RACEWAY RACEWAY SHALL HAVE FACTORY PAINTED IVORY FINISH.
- © SINGLE GANG ELECTRICAL BOX, SURFACE MOUNTED AT UNDERSIDE OF STRUCTURAL DECK ABOVE CEILING.
- ALL DEVICES, COVERPLATES AND CABLING AND CONNECTIONS AT SINGLE GANG BOXES TO BE FURNISHED BY OTHERS.

 REFER TO ARCHITECTURAL AND TECHNOLOGY DRAWINGS FOR LOCATION REQUIREMENTS AND ADDITIONAL INFORMATION.

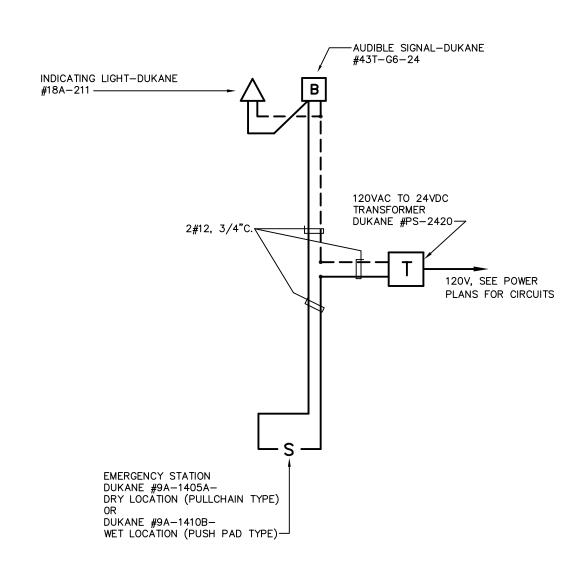


TYPICAL LAB FUME HOOD WIRING DIAGRAM

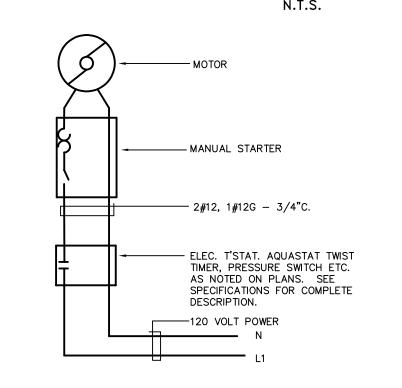
DETAIL NOTES:

- PROVIDE 20A, 120V CIRCUIT AND FINAL CONNECTIONS TO JUNCTION BOX FURNISHED WITH HOOD, FOR HOOD LIGHT AND RECEPTACLE. (LIGHT FIXTURE AND RECEPTACLE FURNISHED, INSTALLED AND WIRED TO FACTORY JUNCTION BOX BY OTHERS).
- 4. PROVIDE AN ENGRAVED LAMACOID PLATE SIGN THAT READS "FUME HOOD EXHAUST."
- 2. FUME HOOD FAN 3-WAY SWITCH AND PILOT LIGHT, SWITCH FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. FINAL CONNECTIONS FROM SWITCH TO ASSOCIATED FUME HOOD SUPPLY AND EXHAUST FAN MOTOR STARTERS BY ELECTRICAL CONTRACTOR.

3. REFER TO MOTOR CIRCUIT SCHEDULE ON DRAWING E4.01 FOR FUME HOOD SUPPLY AND EXHAUST FAN MOTOR POWER REQUIREMENTS.

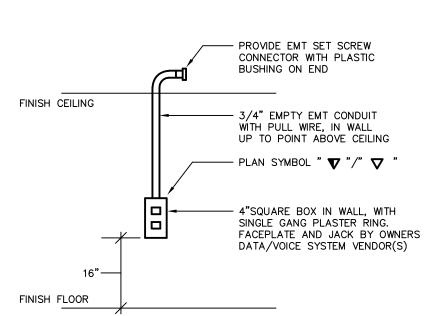


CALL FOR AID WIRING DIAGRAM



TYPICAL FRACTIONAL HP FCU,

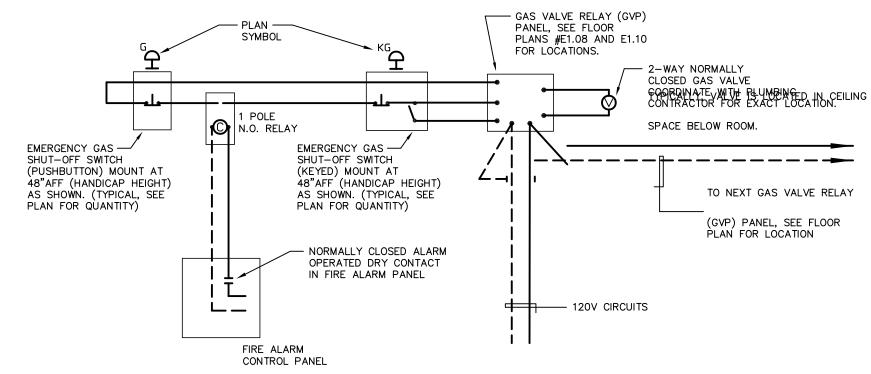
3 UH OR EF WIRING DIAGRAM N.T.S.



TYPICAL INSTALLATION DETAIL TELEPHONE/DATA OUTLET

DETAIL NOTES:

1. DETAIL SIMILAR FOR VIDEO OUTLETS, ♥, AND SMART BOARD OUTLETS ♥SB.



GAS VALVE EMERGENCY SHUT OFF SYSTEM

DETAIL NOTES:

- 1. TYPICAL FOR ROOMS WITH PROVISIONS FOR GAS CONNECTIONS, REFER TO POWER FLOOR PLANS FOR LOCATIONS.
- 2. INCLUDE GROUND WIRE WITH 120V CIRCUIT WIRING.
- 3. 2-WAY NORMALLY CLOSED GAS VALVE FURNISHED AND INSTALLED BY DIV. 15, LOW VOLTAGE CONTROL WIRING BY DIV. 16.
- 4. GAS VALVE RELAY PANEL, EMERGENCY GAS SHUT—OFF SWITCH AND KEYED EMERGENCY GAS SHUT—OFF SWITCH FURNISHED BY DIV. 15, INSTALLED AND ALL WIRING BY DIV. 16.
- 5. CONNECT ALL GAS VALVE CONTROL PANELS TO 120V POWER CIRCUIT IN PANELS INDICATED ON POWER FLOOR PLANS.
- 6. EMERGENCY GAS SHUT-OFF SWITCH AND KEYED EMERGENCY GAS SHUT-OFF SWITCH SHALL BE CONNECTED TO GAS VALVE RELAY PANEL AND ASSOCIATED GAS VALVE FOR EACH RESPECTIVE AREA. PROVIDE BLACK LAMACOID ENGRAVED LABEL FOR EACH GAS VALVE RELAY PANEL INDICATING ROOM SERVED.
- 7. ON GENERAL ALARM SIGNAL FROM FIRE ALARM CONTROL PANEL THE 1—POLE RELAY SHALL DISRUPT CONTROL CIRCUIT SIMILAR TO PUSHBUTTON STATION, EACH GAS VALVE RELAY PANEL MUST BE RESET AT RESPECTIVE KEYED PUSHBUTTON STATION.

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS

MARK DESCRIPTION

2002 PHASE 2 DRAWINGS ISSUED AS REFERENCE ONLY FOR

SEPTEMBER 9, 2002 PHASE 2

PHASE 1 BIDDING

25, 2002 PHASE 2

DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1 BID

DECEMBER 16, 2002 PHASE 2

DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

DRAWINGS ISSUED FOR SDE REVIEW AND

REFERENCE FOR

ADDITIONS AND RENOVATIONS RHAM MIDDLE SCHOOL

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

vanZelmHeywood&ShadfordInc

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620

vZHS PROJECT NUMBER: 2000155.01

MECHANICAL AND ELECTRICAL ENGINEERS

ASSOCIATES, INC.

ARCHITECTS

DRAWN BY: RL6 SCALE: AS NOTED

ELECTRICAL DETAILS

PROJECT NO.: **00049**

DRAWING NO.:

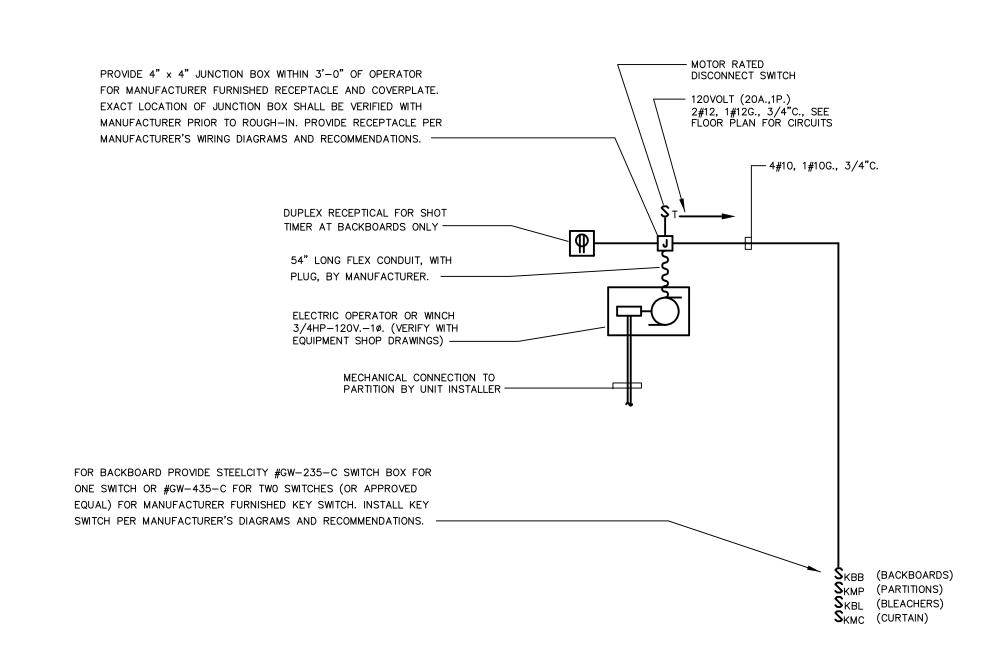
DATE: SEPTEMBER 9, 2002

E3.02

9 TYPICAL ELECTRONIC FAUCET WIRING DETAIL

DETAIL NOTES:

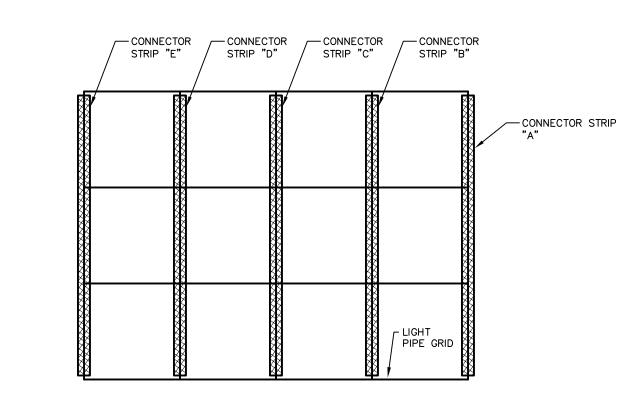
1. FAUCET SHALL BE WIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, COORDINATE REQUIREMENTS WITH PLUMBING CONTRACTOR.



TYPICAL ELECTRICAL OPERATOR WIRING DIAGRAM FOR 8 CYM BACKBOARD, PARTITION, CURTAIN OR BLEACHER N.T.S.

DETAIL NOTES:

1. SEE GYMNASIUM POWER PLAN, DRAWING #E1.06 FOR QUANTITIES AND LOCATIONS OF MOTORIZED DEVICES AND SWITCHES.



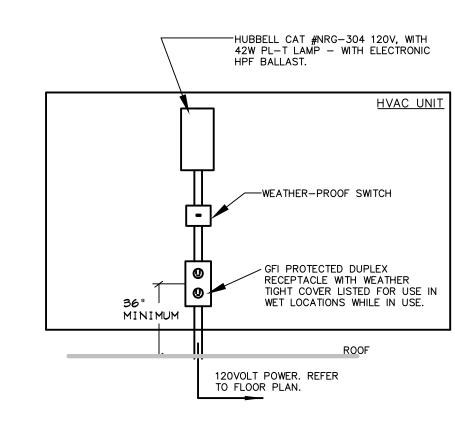
7 CONNECTOR STRIP DETAIL SCALE: 1/4" = 1'-0"

DETAIL NOTES:

1. SEE TV STUDIO AREA POWER FLOOR PLAN, DRAWING #E1.02 FOR LOCATION

OF CONNECTOR STRIPS.

2. REFER TO SPECIFICATION SECTION #16782 FOR ADDITIONAL INFORMATION.

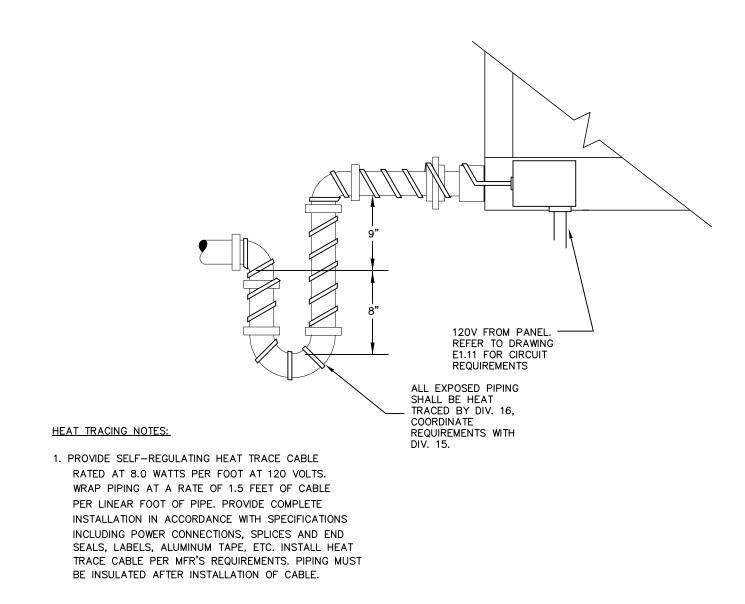


TYPICAL ROOF MOUNTED UNIT

OUTLET AND LIGHT DETAIL

DETAIL NOTES:

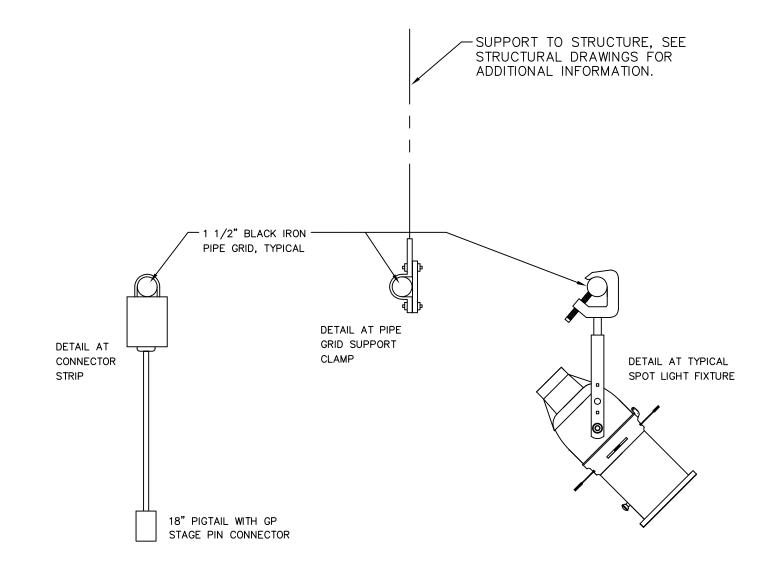
- PROVIDE AT EACH HEATING, AIR CONDITIONING, OR REFRIGERATION UNIT ON ROOFTOPS IN ATTICS OR CRAWL SPACES PER NEC 210-63. SEE ROOF PLAN DRAWING #E1.11 FOR LOCATIONS.
- 2. MOUNT DEVICES TO HVAC UNIT. COORDINATE ROOF PENETRATION WITH ROOF INSTALLER AND G.C.



5 HEAT TRACE DETAIL FOR ROOF TOP UNITS

DETAIL NOTES:

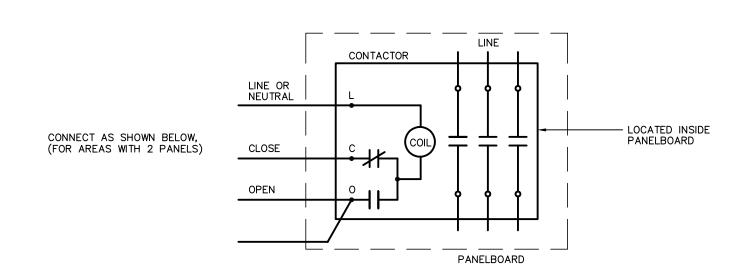
1. FOR UNITS MOUNTED ON ROOF, SEE ROOF POWER PLAN, DRAWING E1.11, FOR LOCATIONS.

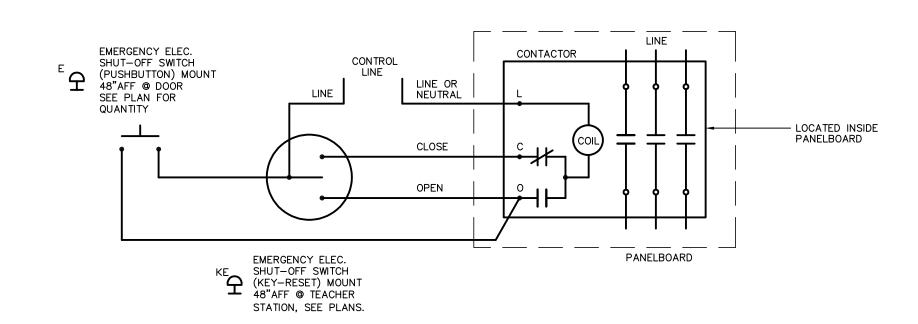


4 TV STUDIO LICHT PIPE GRID DETAILS N.T.S.

DETAIL NOTES :

- BRACKETS AND CONNECTOR STRIPS SUPPLIED BY THE STAGE LIGHTING SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 2. 4' \times 4' \times 1 1/2" BLACK IRON PIPE GRID INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT GRID AT 1'-0" BELOW CEILING.
- 3. SPECIALTY LIGHT FIXTURES SUPPLIED BY THE STAGE LIGHTING SUPPLIER AND ATTACHED TO PIPE GRID BY ELECTRICAL CONTRACTOR.
 4. REFER TO SPECIFICATION SECTION #16782 FOR ADDITIONAL INFORMATION.

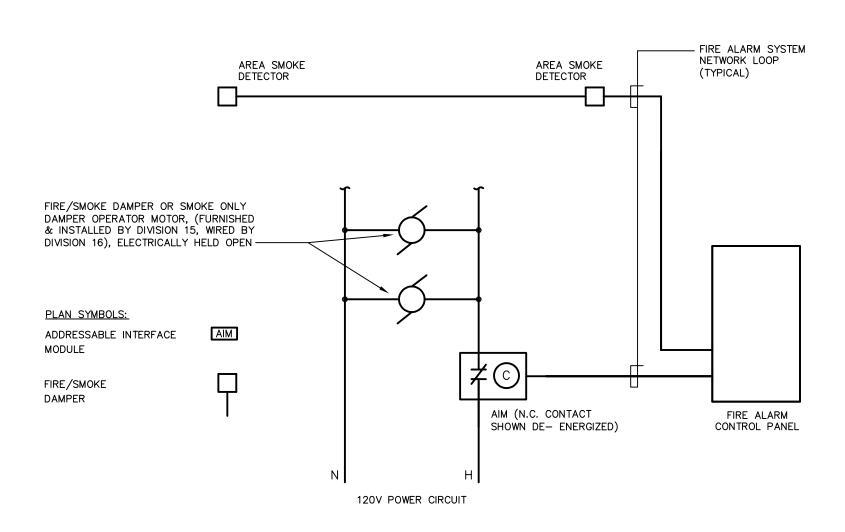




TYPICAL EMERGENCY POWER SHUT-OFF DIAGRAM

DETAIL NOTES :

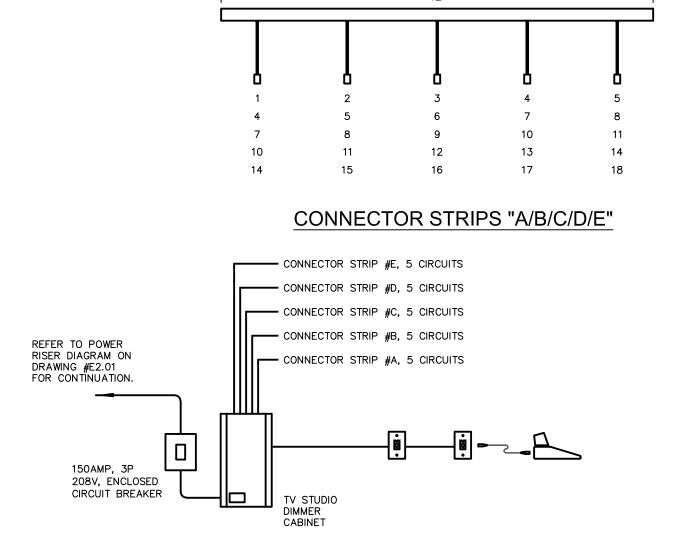
- 1. INCLUDE GROUND WIRE WITH 120V CIRCUITS.
- EMERGENCY POWER SHUT—OFF DETAIL TYPICAL FOR PANELS "MSP" AND "TSP"
- 3. DETAIL SIMILAR FOR SEWING ROOM #A233, EXCEPT WITH CONTACTOR MOUNTED ADJACENT TO PANEL. REFER TO DRAWING #E1.08 FOR ADDITIONAL INFORMATION.



DETAIL NOTES:

1. ACTIVATION OF AREA SMOKE DETECTOR(S) SHALL SIGNAL FIRE ALARM CONTROL PANEL WHICH WILL THEN SIGNAL RESPECTIVE SMOKE DAMPER ADDRESSABLE INTERFACE MODULE (AIM) TO OPEN AIM N.C. CONTACT, INTERUPPTING POWER TO DAMPER MOTOR, CAUSING DAMPER TO CLOSE. DAMPER REOPENS ON RESET OF FIRE ALARM SYSTEM.

TYPICAL FIRE ALARM/DAMPER INTERFACE WIRING DIAGRAM



1 TV STUDIO CONNECTOR STRIP DETAIL

DETAIL NOTES:

- SEE TV STUDIO AREA POWER FLOOR PLAN, DRAWING #E1.02 FOR LOCATION OF CONNECTOR STRIPS.
- 2. REFER TO SPECIFICATION SECTION #16782 FOR ADDITIONAL INFORMATION.

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS
GENERAL NOTES AND WALL TYPES
SEE SHEETS RO.01 & RO.02

REVISIONS MARK

SEPTEMBER 9, 2002 PHASE 2

9, 2002 PHASE 2 DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR PHASE 1 BIDDING

25, 2002 PHASE 2 DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1 BID

FMBER 16, 2002 PHASE 2

2 PHASE 2 DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

CONSTRUCTION PURPOS

DESCRIPTION

DRAWINGS ISSUED AS REFERENCE ONLY FOR

ADDITIONS
AND
RENOVATIONS
RHAM
MIDDLE
SCHOOL

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

STATE I ROJECT NO. 200 0010 NJEAN

VANZELMHEY WOOD SHADFORDING
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vZHS PROJECT NUMBER: 2000155.01

KAESTLE BOOS

ACCOCIATEC INIC

ASSOCIATES, INC.

ARCHITECTS

DRAWN BY: RLG CHECKED BY: MMF SCALE: AS NOTED

ELECTRICAL DETAILS

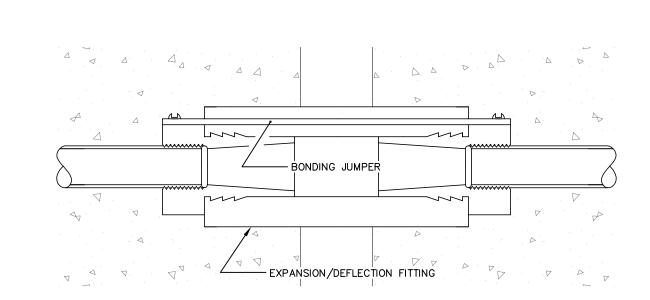
PROJECT NO.: **00049**

DRAWING NO.:

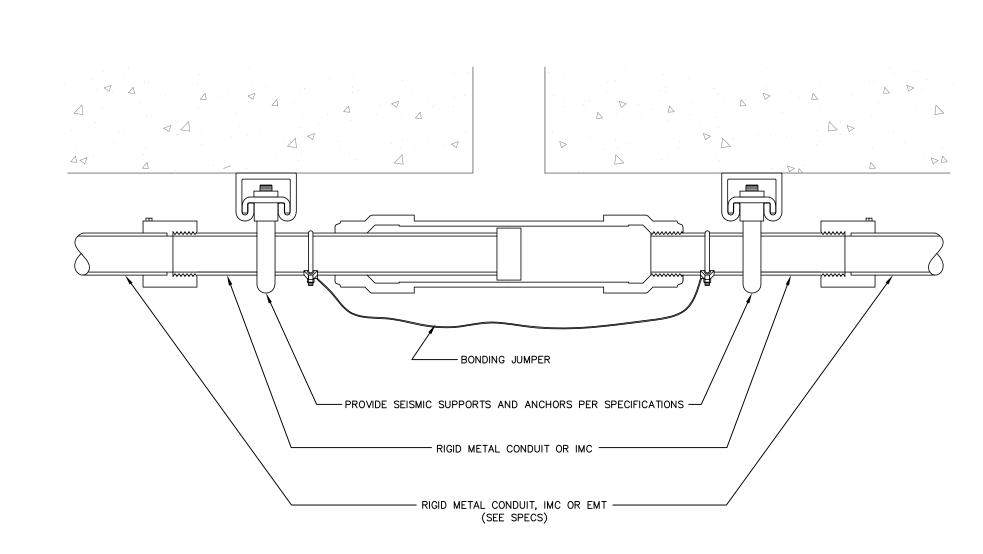
DATE: SEPTEMBER 9, 2002

E3.03

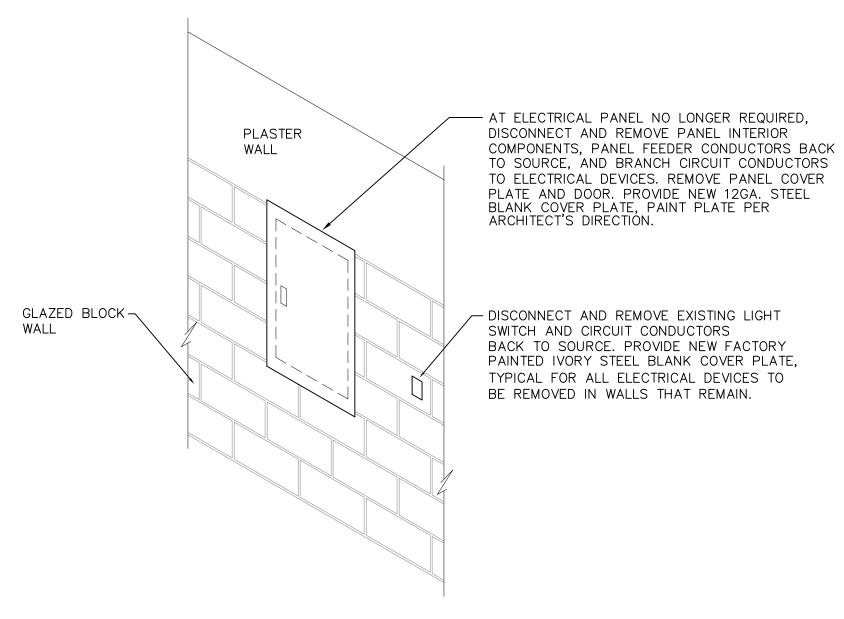
5.01\Dwgs\Electrical\ 02/06/03 15:54:34 EXPOSED METAL CONDUIT AT SEISMIC JOINT



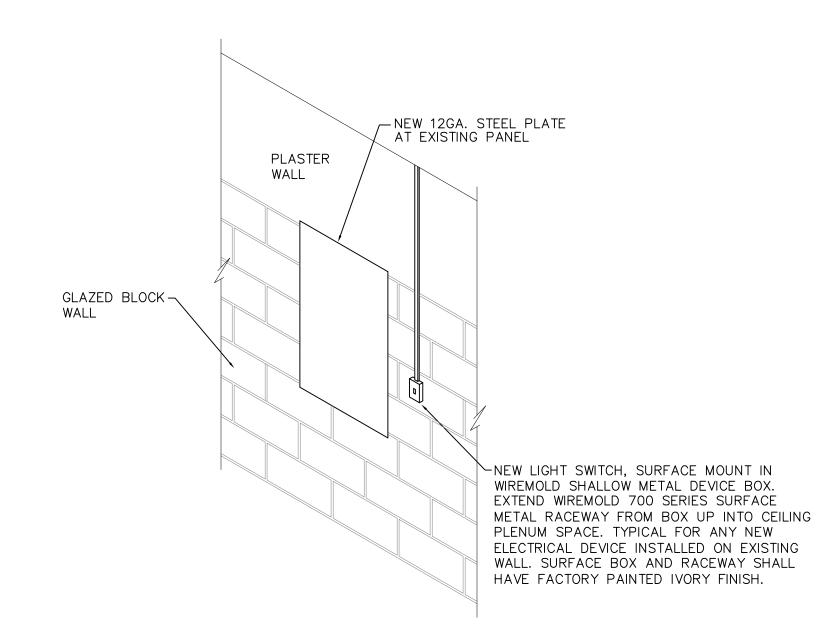
EMBEDDED CONDUIT AT SEISMIC AND EXPANSION JOINTS



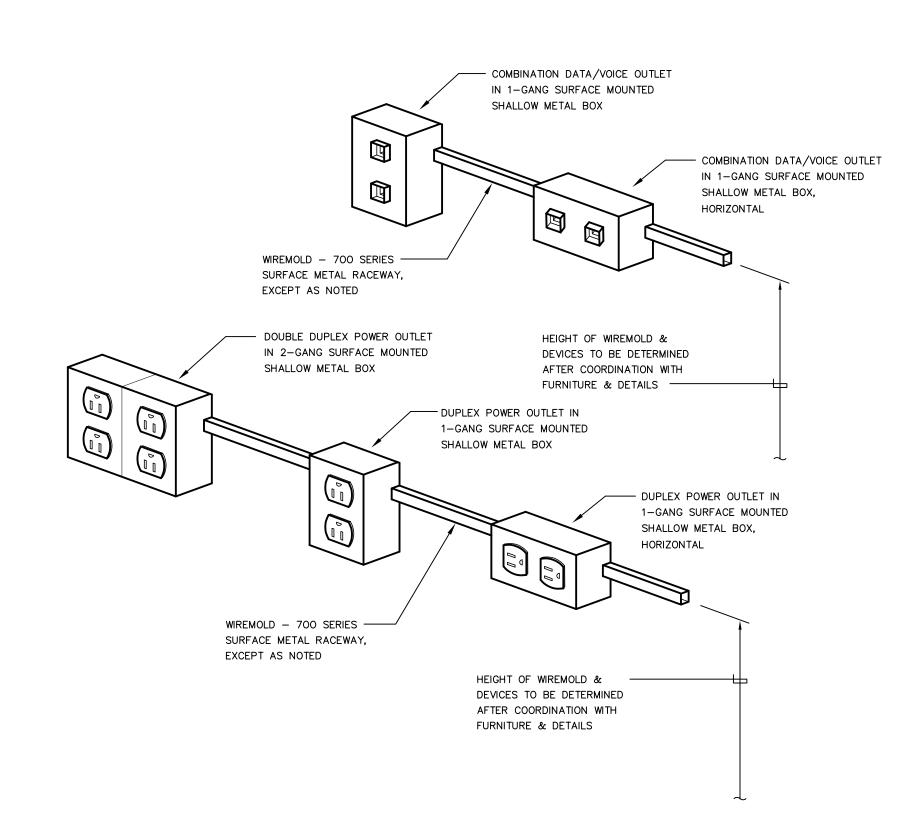
EXPOSED CONDUIT AT EXPANSION JOINT



TYPICAL ELECTRICAL DEMOLITION DETAIL AT EXISTING CORRIDOR WALL



TYPICAL NEW ELECTRICAL DEVICES AT EXISTING CORRIDOR WALL



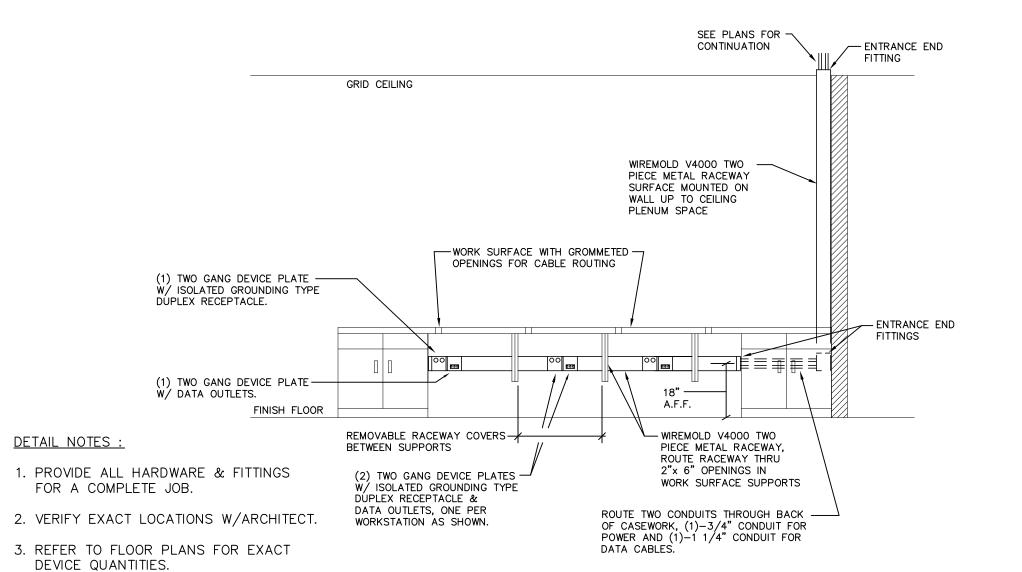
TYPICAL DETAIL FOR SERVICE DEVICES FED FROM SURFACE METAL RACEWAY

<u>DETAIL NOTES :</u>

1. DETAIL SIMILAR FOR ANY NEW / RELOCATED DEVICE AT EXISTING WALL, EXCEPT WHERE NOTED OTHERWISE.

2. SURFACE RACEWAY MAY ALSO EXTEND VERTICALLY INTO CEILING PLENUM SPACE.

3. ALL SURFACE RACEWAY AND BOXES SHALL BE FURNISHED WITH FACTORY PAINTED IVORY FINISH.



TYPICAL CLASSROOM POWER/TELECOM RACEWAY SYSTEM DETAIL AT COMPUTER WORKSTATIONS

> 1. TYPICAL FOR THE COMPUTER WORKSTATION LOCATION IN ALL CLASSROOMS, NEW AND EXISTING.

2. BOND RACEWAY TO CIRCUIT EQUIPMENT GROUND.

4. PROVIDE WIREMOLD V4050 SERIES

ALL DEVICE LOCATIONS.

"OVERLAPPING" STYLE FACE PLATES AT

3. RACEWAY DIVIDER SHALL BE METAL AND BONDED TO ELECTRICAL CIRCUIT EQUIPMENT GROUND.

4. FURNISH ALL RACEWAY, BOXES, CONNECTORS, ETC., WITH FACTORY IVORY FINISH.

SEE PLANS FOR ENTRANCE END WIREMOLD (V4000) TWO PIECE METAL RACEWAY UP INTO CEILING PLENUM SPACE NOTE 5-DATA/VOICE OUTLET WHITEBOARD 2 GANG DEVICE PLATE -W/ISOLATED GROUND TYPE DUPLEX RECEPTACLE 2 GANG DEVICE PLATE ----W/ISOLATED GROUND TYPE DUPLEX RECEPTACLE 2 GANG DEVICE PLATE W/DUPLEX RECEPTACLE **DETAIL NOTES:** 1. PROVIDE ALL HARDWARE & FITTINGS 2 GANG DEVICE PLATE—— W/DUPLEX RECEPTACLE FOR A COMPLETE JOB. 2. VERIFY EXACT LOCATIONS W/ARCHITECT. 3. REFER TO FLOOR PLANS FOR EXACT DEVICE QUANTITIES.

TYPICAL CLASSROOM POWER/TELECOM RACEWAY SYSTEM DETAIL AT WHITEBOARD

1. TYPICAL FOR THE "BOARD" WALLS OF ALL CLASSROOMS, NEW AND EXISTING.

2. BOND RACEWAY TO CIRCUIT EQUIPMENT GROUND.

4. PROVIDE WIREMOLD V4050 SERIES

ALL DEVICE LOCATIONS.

FOR ALL ELBOWS.

"OVERLAPPING" STYLE FACE PLATES AT

5. PROVIDE "FULL CAPACITY" TYPE FITTINGS

3. RACEWAY DIVIDER SHALL BE METAL AND BONDED TO ELECTRICAL CIRCUIT EQUIPMENT GROUND.

4. FURNISH ALL RACEWAY, BOXES, CONNECTORS, ETC., WITH FACTORY IVORY FINISH.

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02 REVISIONS

DESCRIPTION

DRAWINGS ISSUED AS REFERENCE ONLY FOR

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR

DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1 BID

PHASE 1 BIDDING

SEPTEMBER 9, 2002 PHASE 2

SEPTEMBER 25, 2002 PHASE 2

DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES MARLBOROUGH

ADDITIONS RENOVATIONS RHAM MIDDLE **SCHOOL**

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

vanZelmHeywood&ShadfordInc

MECHANICAL AND ELECTRICAL ENGINEER TEL (860) 521-4329 FAX (860) 521-5620 vZHS PROJECT NUMBER: 2000155.01



KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

DRAWN BY: RLG SCALE: AS NOTED CHECKED BY: MWF

416 SLATER RD. NEW BRITAIN, CT 06050-2590 (860) 229-0361

ELECTRICAL DETAILS

PROJECT NO.: **00049**

DRAWING NO.:

DATE: **SEPTEMBER 9, 2002**

E3.04

GENERAL MOTOR CIRCUIT SCHEDULE NOTES:

- A. COORDINATE WITH TEMPERATURE CONTROLS PRIOR TO INSTALLATION OF FRACTIONAL HORSEPOWER 120V FANS.
- B. REFER TO ELECTRICAL PANELBOARD SCHEDULES AND ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- C. ALL DISCONNECT SWITCHES DESIGNATED FOR EXTERIOR USE (MOUNTED ON ROOF) SHALL BE NEMA TYPE 3R & WP RATED.

MOTOR CIRCUIT SCHEDULE NOTES:

- ABBREVIATIONS:
 - FVNR FULL VOLTAGE NON-REVERSING VFD - VARIABLE FREQUENCY DRIVE 2 SPEED - TWO SPEED NON REVERSING HACR - HEATING, AIR CONDITIONING AND REFRIGERATION TYPE CIRCUIT BREAKER THERM. SWITCH - THERMAL OVERLOAD PROTECTION DISCONNECT DEVICE MOD - MOTORIZED OVERHEAD DOOR
- 2. DISCONNECT SWITCH FURNISHED, INSTALLED AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 16. UNIT FURNISHED COMPLETE WITH MOTOR STARTER BY DIV. 15.
- 3. DISCONNECT SWITCH/STARTER FACTORY INSTALLED AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 15. ONE POINT POWER CONNECTION (BRANCH CIRCUIT TO UNIT) BY DIVISION 16.
- 4. DISCONNECT SWITCH AND MOTOR STARTER FURNISHED, INSTALLED AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 16.
- 5. DISCONNECT SWITCH/STARTER (VFD) PROVIDED BY DIVISION 15; INSTALLED BY DIVISION 16. ONE POINT POWER CONNECTION BY DIVISION 16. PROVIDE ALL WIRING TO VFD AND FROM VFD TO UNIT BY DIVISION 16.
- 6. PROVIDE SHUNT TRIP CIRCUIT BREAKER IN PANELBOARD. PROVIDE DISCONNECT SWITCH WITH AUX. CONTACTS FOR EMERGENCY LOWERING DEVICE MANUAL BYPASS IN ELEVATOR MACHINE ROOM.
- 7. DISCONNECT SWITCH FURNISHED, INSTALLED AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 16. UNIT FURNISHED COMPLETE WITH MOTOR STARTER BY UNIT MANUFACTURER.
- 8. PROVIDE RELAY IN ENCLOSURE ADJACENT TO SOURCE PANEL FOR REMOTE CONTROL OF FAN. RELAY TO BE NORMALLY OPEN, ELECTRICALLY HELD CLOSED WITH 20A, 120V CONTACTS RATED FOR 1/3 HP. RELAY COIL VOLTAGE TO BE COORDINATED WITH DIV. 15 CONTROLS CONTRACTOR.
- 9. DISCONNECT SWITCH AND EXPLOSION PROOF MOTOR STARTER FURNISHED, INSTALLED AND WIRED TO UNIT ONE POINT CONNECTION BY DIVISION 16.
- 10. BRANCH CIRCUIT FEEDER OVERSIZED TO ACCOMMODATE VOLTAGE
- 11. DIVISION 16 TO PROVIDE WALL SWITCH WITH PILOT LIGHT. WALL SWITCH TO BE WIRED TO STARTER AUTO CONTROL WITH 3#12, 1#12G., 3/4"C.
- 12. DIVISION 16 TO PROVIDE WALL SWITCH WITH PILOT LIGHT RATED FOR 1/2HP. MOTOR BRANCH CIRCUIT WIRING TO BE RUN THROUGH WALL SWITCH.

			MOTOR		i				_		
EQUIPMENT	CIRCUIT/ SOURCE PANEL	O.C.P. DEVICE	FEEDER	LOCAL DISC. SWITCH	DISC. FUSE	MOTOR S TYPE SIZE		L HP/KW	OAD PH	VOLT	REMARKS
	,		ANCH CIRCUIT DESIGNATION		 			 	IONS		
UH-A1 UH-A2	REFER TO FLR. PLANS REFER TO FLR. PLANS	20/1	2#12, 1#12G., 3/4°C. 2#12, 1#12G., 3/4°C.	THERM.SWITCH		FURNISHED FURNISHED		1/6HP 1/6HP	1	120 120	NOTE #2 NOTE #2
UH-A3	REFER TO FLR. PLANS	20/1	2#12, 1#12G., 3/4"C.	THERM.SWITCH	_	FURNISHED		1/6HP	1	120	NOTE #2
UH-C1	REFER TO FLR. PLANS	20/1	2#12, 1#12G., 3/4"C.	THERM.SWITCH -	_	FURNISHED	WITH UNIT	1/6HP	1	120	NOTE #2
CUH-A1-A5	REFER TO FLR. PLANS	20/1	2#12, 1#12G., 3/4"C.	_	FURNISHI	ED WITH UNIT		1/10HP	1	120	NOTE #3
CUH-B1-B5	REFER TO FLR. PLANS	20/1	2#12, 1#12G., 3/4"C.	-		ED WITH UNIT		1/10HP	1	120	NOTE #3
CUH-C1-C7	REFER TO FLR. PLANS	20/1	2#12, 1#12G., 3/4"C.	_	FURNISHI	ED WITH UNIT		1/10HP	1	120	NOTE #3
CP-1	1,RP-1A2	20/1	2#12, 1#12G., 3/4"C.	THERM.SWITCH	l –	FVNR 00	MECH. RM.	1/20HP	1	120	NOTE #4
CP-2	33,RP-1B1	20/1	2#12, 1#12G., 3/4"C.	THERM.SWITCH	_	FVNR 00	CUST B134	1/20HP	1	120	NOTE #4
CP-3 EF-A1	3,RP-1A2 1,3,5,MHP-2A	20/1	2#12, 1#12G., 3/4°C. 3#12,1#12G., 3/4°C.	THERM.SWITCH	- 15.0	FVNR 00 FVNR 00	MECH. RM	1/12HP 3.0HP	3	120 480	NOTE #4 NOTE #4, #9 & #11
EF-A2	1,RP-2A2	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH		-	-	1/4HP	1	120	NOTE #4 & #8
EF-A3	3,RP-2A2	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH	_	-	_	1/4HP	1	120	NOTE #4 & #8
EF-A4 EF-A5	2,RP-2A2 4,RP-2A2	20/1	2#12,1#12G., 3/4°C. 2#12,1#12G., 3/4°C.	THERM.SWITCH	-	_		1/4HP 1/4HP	1	120 120	NOTE #4 & #8 NOTE #4 & #8
EF-A6	6,ESPL-1A	20/1	2#10,1#12G., 3/4°C.	THERM.SWITCH		_	_	1/6HP	1	120	NOTE #4, #8 & #10
EF-A7	6,RP-2A2	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH		-	_	1/60HP		120	NOTE #4 & #8
EF-A8 EF-A9	2,RP-1A2 4,RP-1A2	20/1	2#12,1#12G., 3/4°C. 2#12,1#12G., 3/4°C.	THERM.SWITCH THERM.SWITCH		_		1/60HP 1/60HP		120 120	NOTE #4 & #8 NOTE #4, #8 & #12
EF-A10	27,RP-1A	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH		_	_	1/4HP		120	NOTE #4 & #8
EF-A11	14,16,18,MHP-2A1	20/3	3#12,1#12G., 3/4°C.	30A-3P3F	15A	FVNR 0	CUST. A221	2.0HP	3	480	NOTE #4, #9 & #11
EF-A12	7,9,11,MHP-2A 5,RP-2A2	20/3	3#12,1#12G., 3/4°C.	30A-3P3F THERM.SWITCH	15A _	FVNR 0	CUST. A221	3.0HP	3	480 120	NOTE #4 & #11
EF-A13 EF-A14	5,RP-2A2 7,RP-2A2	20/1	2#12,1#12G., 3/4°C. 2#12,1#12G., 3/4°C.	THERM.SWITCH	-	_		1/3HP 1/4HP	1	120	NOTE #4, #8 & #12 NOTE #4 & #8
EF-A15	13,15,17,MHP-2A1	20/3	3#12,1#12G., 3/4°C.	30A-3P3F	15A	FVNR 00	CUST. A221	1.5HP	3	480	NOTE #4 & #11
EF-A16	8,RP-2A2	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH		_		1/4HP	1	120	NOTE #4, #8 & #12
EF-A17 EF-A18	9,RP-2A2 11,RP-2A2	20/1	2#12,1#12G., 3/4°C. 2#12,1#12G., 3/4°C.	THERM.SWITCH THERM.SWITCH		_ _		1/20HP 1/4HP		120 120	NOTE #4 & #8 NOTE #4 & #8
EF-A19	9,RP-2A2	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH		_	_	1/6HP	1	120	NOTE #4 & #8
EF-A20	12,RP-2A2	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH		-	_	1/3HP	1	120	NOTE #4 & #8
EF-A21 EF-B1	14,RP-2A2 23,RP-2B1	20/1	3#12,1#12G., 3/4°C. 2#12,1#12G., 3/4°C.	THERM.SWITCH THERM.SWITCH		_ _		1/4HP 1/4HP	1	120 120	NOTE #4 & #8 NOTE #4 & #8
EF-B2	25,RP-2B1	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH		_	_	1/6HP	1	120	NOTE #4 & #8
EF-B3	27,RP-2B1	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH		- FVAID 00	- FLECT D216	1/6HP	1	120	NOTE #4 & #8
EF-B4 EF-B5	SEE POWER RISER DIAG SEE POWER RISER DIAG	20/3	3#12,1#12G., 3/4°C. 3#12,1#12G., 3/4°C.	30A-3P3F 30A-3P3F	15A 15A	FVNR 00 FVNR 00	ELECT. B216 ELECT. B216			480 480	NOTE #4 & #11 NOTE #4 & #11
EF-B6	SEE POWER RISER DIAG	20/3	2#12,1#12G., 3/4°C.	THERM.SWITCH		-	- -	1/4HP		120	NOTE #4 - 24HR OPERATION
EF-B7	SEE POWER RISER DIAG	20/1	2#12,1#12G., 3/4"C.	THERM.SWITCH	-	-	_	1/4HP	1	120	NOTE #4 - 24HR OPERATIO
EF-B8 EF-B9	26,RP-2B1 28,RP-2B1	20/1	2#12,1#12G., 3/4°C. 2#12,1#12G., 3/4°C.	THERM.SWITCH THERM.SWITCH		_		1/4HP 1/4HP	1	120 120	NOTE #4 & #8 NOTE #4 & #8
EF-B10	31,33,35,MHP-2B	20/3	3#12,1#12G., 3/4°C.	-	_	VFD	ELECT. B216		3	480	NOTE #4
EF-C1	1,RP-1C2	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH		-	_	1/4HP	1	120	NOTE #4 & #8
EF-C2 EF-C3	2,RP-1C2 3,RP-1C2	20/1	2#12,1#12G., 3/4°C. 2#12,1#12G., 3/4°C.	THERM.SWITCH THERM.SWITCH		_		1/6HP 1/4HP	1	120 120	NOTE #4 & #8 NOTE #4 & #8
EF-C4	2,RP-1C	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH		_	_	1/6HP	1	120	NOTE #4 & #8
EF-C5	7,RP-1C2	20/1	2#12,1#12G., 3/4°C.	THERM.SWITCH	-	-	_	1/6HP	1	120	NOTE #4 & #8
AHU-A1	14,16,18,HP-1A1	20/3	3#12,1#12G., 3/4°C.	30A-3P3F	15A	FVNR 00	AT UNIT	1.0HP	3	480	NOTE #2
AHU-A2	17,19,21,HP-1A1 20,22,24,HP-1A1	20/3 20/3	3#12,1#12G., 3/4°C. 3#12,1#12G., 3/4°C.	30A-3P3F -	15A –	FVNR 00 VFD	AT UNIT	3.0HP	3 3	480 480	NOTE #2 NOTE #5
A110-A3	20,22,24,111 -171	20/3	J#12,1#120., J/ + 0.	_	<u> </u>	۷۱۵	MANOI AT+9	3.0111	J	400	NOTE #3
DUST COLL.	29,31,33,RP-1A	60/3	3#8,1#10G., 3/4°C.	60A-3P3F	40A	EXISTING	EXISTING	7.5HP	3	208	NOTE #4
EXIST. ELEV.	SEE POWER RISER DIAG	150/3	3#3,1#8G., 1-1/4°C.	100A-3P3F	100A	FURNISHED	WITH UNIT	20HP	3	208	NOTE #6 & #7
RTU-A1 SUP	13,15,17,MHP-2A	70/3	3#8,1#8G., 1"C.	BY DIV. 15	_		ROOF AT UNIT		3 3	480 480	NOTE #5
RTU-A1 RET	19,21,23,MHP-2A 14,16,18,MHP-2A	25/3 35/3	3#10,1#12G., 3/4°C. 3#10,1#12G., 3/4°C.	BY DIV. 15 BY DIV. 15	<u> </u>		ROOF AT UNIT		3	480	NOTE #5 NOTE #5
RTU-A2 RET	20,22,24,MHP-2A	20/3	3#12,1#12G., 3/4°C.	BY DIV. 15	-	VFD F	ROOF AT UNIT	3.0HP	3	480	NOTE #5
RTU-A3 SUP	25,27,29,MHP-2A	35/3	3#10,1#12G., 3/4°C.	BY DIV. 15	_		ROOF AT UNIT				NOTE #5
RTU-A3 RET	31,33,35,MHP-2A 26,28,30,MHP-2A	20/3 25/3	3#12,1#12G., 3/4°C. 3#10,1#12G., 3/4°C.	BY DIV. 15 BY DIV. 15	-		ROOF AT UNIT	_	3 3	480 480	NOTE #5 NOTE #5
RTU-A4 RET	32,34,36,MHP-2A	20/3	3#12,1#12G., 3/4°C.	BY DIV. 15	_	VFD F	ROOF AT UNIT	5.0HP	3	480	NOTE #5
RTU-A5 SUP		70/3	3#8,1#8G., 1"C.	BY DIV. 15	_		ROOF AT UNIT			480	NOTE #5
RTU-A5 RET	7,9,11,MHP-2A1 2,4,6,MHP-2A1	20/3 50/3	3#10,1#12G., 3/4°C. 3#10,1#10G., 3/4°C.	BY DIV. 15 BY DIV. 15	<u> </u>		ROOF AT UNIT		3	480 480	NOTE #5 NOTE #5
RTU-A6 RET	8,10,12,MHP-2A1	25/3	3#10,1#12G., 3/4°C.	BY DIV. 15	_		ROOF AT UNIT			480	NOTE #5
RTU-B1 SUP	7,9,11,MHP-2B	50/3	3#10,1#10G., 3/4°C.	BY DIV. 15	_		ROOF AT UNIT			480	NOTE #5
RTU-B1 RET	13,15,17,MHP-2B 8,10,12,MHP-2B	20/3 70/3	3#12,1#12G., 3/4°C. 3#8,1#8G., 1°C.	BY DIV. 15 BY DIV. 15	<u> </u>		ROOF AT UNIT		3	480 480	NOTE #5 NOTE #5
RTU-B2 RET	14,16,18,MHP-2B	35/3	3#10,1#12G., 3/4°C.	BY DIV. 15	_		ROOF AT UNIT	_		480	NOTE #5
TU-B3 SUP	25,27,29,MHP-2B	70/3	3#8,1#8G., 1"C.	BY DIV. 15	-		ROOF AT UNIT			480	NOTE #5
TU-B3 RET	31,33,35,MHP-2B 20,22,24,MHP-2B	25/3 70/3	3#10,1#12G., 3/4°C. 3#8,1#8G., 1°C.	BY DIV. 15 BY DIV. 15	_ _		ROOF AT UNIT		3	480 480	NOTE #5 NOTE #5
RTU-B4 RET	26,28,30,MHP-2B	35/3	3#10,1#12G., 3/4"C.	BY DIV. 15	_		ROOF AT UNIT		3	480	NOTE #5
RTU-C1 SUP	1,3,5,MHP-1C	35/3	3#10,1#12G., 3/4°C.	30A-3P3F	25A		ELECT. C135		3	480	NOTE #4
TU-C1 RET	7,9,11,MHP-1C 2,4,6,MHP-1C	20/3 70/3	3#12,1#12G., 3/4°C. 3#8,1#8G., 1°C.	30A-3P3F BY DIV. 15	15A –	 	ELECT. C135 ROOF AT UNIT		3 3	480 480	NOTE #4 NOTE #5
TU-C2 RET	8,10,12,MHP-1C	25/3	3#10,1#12G., 3/4"C.	BY DIV. 15	-		ROOF AT UNIT	-	3	480	NOTE #5
TU-C3 SUP	13,15,17,MHP-1C	50/3	3#10,1#10G., 3/4°C.	BY DIV. 15	_		ROOF AT UNIT			480	NOTE #5
TU-C3 RET	19,21,23,MHP-1C 14,16,18,MHP-1C	20/3 50/3	3#12,1#12G., 3/4°C. 3#10,1#10G., 3/4°C.	BY DIV. 15 BY DIV. 15	_		ROOF AT UNIT	-	3 3	480 480	NOTE #5 NOTE #5
RTU-C4 RET	20,22,24,MHP-1C	20/3	3#12,1#12G., 3/4°C.	BY DIV. 15	_		ROOF AT UNIT		3	480	NOTE #5
. = : :			0 # 2 + 11 - 1 - 1 - 1	T							
ACU-A1	5,RP-1A2 6,8,10,RP-1A2	20/1	2#12,1#12G., 3/4°C. 3#12,1#12G., 3/4°C.	THERM.SWITCH	_ 15А	_		0.4KW 3.0KW	1 3	120 208	NOTE #4 & #8 NOTE #3
ACU-C1	5,RP-1C2	20/3	2#12,1#12G., 3/4°C.	THERM.SWITCH		_		0.4KW	1	120	NOTE #4 & #8
CU-C1	6,8,10,RP-1C2	20/3	3#12,1#12G., 3/4°C.	30A-3P3F	15A	_	_	3.0KW	3	208	NOTE #3
	MUDH (SEE DISER)	20 /7	3,410,1,4100, 7,420	30 A 7075	20.4			101/14	7	100	NOTE #0
	MDPH (SEE RISER) 9,RP-1C2	20/3	3#12,1#12G., 3/4°C. 2#12,1#12G., 3/4°C.	30A-3P3F THERM.SWITCH	20A –	_ _		12KW 1/4HP	3 1	480 120	NOTE #2 NOTE #4 & #8
EUH-1 FCU-C1		•	<u> </u>				1	ŕ			
FCU-C1			<u> </u>								
FCU-C1	1,3,5,MHP-1B	20/3	3#12,1#12G., 3/4"C.	30A-3P3F	20A	_	_	12KW	3	480	NOTE #2
	1,3,5,MHP-1B	20/3	3#12,1#12G., 3/4"C.	30A-3P3F	20A	_	_	12KW	3	480	NOTE #2
FCU-C1 L. WTR HTR DD RM. A149	1,3,5,MHP-1B REFER TO FLR. PLANS REFER TO FLR. PLANS	20/3 20/1 20/1	3#12,1#12G., 3/4"C. 2#12, 1#12G., 3/4"C. 2#12, 1#12G., 3/4"C.	30A-3P3F THERM.SWITCH THERM.SWITCH		- FURNISHED WI	TH UNIT	1/2HP 1/2HP	1	120 120	NOTE #2 NOTE #2 NOTE #2

TVDE	MANUEACTURER		GHTING F			İ	
TYPE A	MANUFACTURER COLUMBIA	CATALOG NO. P4D-24-332-G-MA36-S-	METALUX	<u>LAMPS</u> (3) F032T8	<u>VOLTS</u> 277	MOUNTING CEILING RECESSED	REMARKS 2'x4' 3-LAMP 18 CELL PARA
A1	COLUMBIA	EB8LH-277 P4D-24-332-G-MA36-S-	METALUX	(3) F032T8	277	CEILING RECESSED	(2) BALLASTS 2'x4' 3-LAMP 18 CELL PARA
A2	COLUMBIA	3EB8LH-277 ST8-24-332-G-FSA12-	LITHONIA METALUX	(3) F032T8	277	CEILING RECESSED	(1) 3—LAMP BALLAST 2'x4' 3LAMP, .125" ACRYLIC LENS,
A3	COLUMBIA	3EB8LH-277 ST8-24-332-G-FAA19-	LITHONIA METALUX	(3) F032T8	277	CEILING RECESSED	(1) 3-LAMP BALLAST 2'x4' 3LAMP WITH HEAVY-DUTY ACRYLIC LENS, (1)
		3EB8LH-277 P4D-22-331U1-G-	LITHONIA METALUX				3-LAMP BALLAST
A4	COLUMBIA	MA36-S-EB8LH-277 P4D-24-332-G-MA36-S-	LITHONIA METALUX	(3) F031/T-8 1-5/8"U	277	CEILING RECESSED	(1) 3-LAMP BALLAST 2'v4' 3LAMP 125" ACRYLIC LENS
A5	COLUMBIA	EB8LH-277	LITHONIA METALUX	(3) F032T8	277	CEILING RECESSED	(2) BALLASTS 2'x4' 4-LAMP 18 CELL PARA
A6	COLUMBIA	P4D-24-432-G-MA36-S- EB8LH-277	LITHONIA	(4) F032T8	277	CEILING RECESSED	(2) BALLASTS
A7	COLUMBIA	P4D-22-331U1-G- MA36-S-EB8LH-277	LITHONIA	(3) F031/T-8 1-5/8"U	277	CEILING RECESSED	(2) BALLASIS
A8	COLUMBIA	ST8-24-332-G-FSA12- 3EB8LH-277-EM	METALUX LITHONIA	(3) F032T8	277	CEILING RECESSED	SIMILAR TO TYPE "A2" WITH AN EMERGENCY BATTERY BALLAST
A9	COLUMBIA	ST8-24-332-G-FSA12- 3EB8LH-277-EM	METALUX LITHONIA	(3) F032T8	277	CEILING RECESSED	SIMILAR TO TYPE "A4" WITH AN EMERGENCY BATTERY BALLAST
B1	COLUMBIA	IC042R-PA10-T4/ICWG/ICCH	METALUX LITHONIA	(2) F032T8	277	SURFACE	1'x4' OPEN INDUSTRIAL WITH WIRE GUARD, (1) 2-LAMP BALLAST
B2	COLUMBIA	IC084R-PA10-T4/(2)ICWG/ICCH	METALUX LITHONIA	(2) F032T8 PER 4' SECTION	277	SURFACE	1'x8' OPEN INDUSTRIAL WITH WIRE GUARD, (1) 4—LAMP BALLAST
В3	COLUMBIA	ICO84R-TA10-T4/(2)ICWG/ICCH	METALUX LITHONIA	(2) F032T8 PER 4' SECTION	277	SURFACE	1'x8' OPEN INDUSTRIAL WITH WIRE GUARD, DUST RESIST. FINISH (1) 4-LAMP BALLAST
B4	COLUMBIA	4PS-14-232-G-FSA12-EB8LH-277	METALUX LITHONIA	(2) F032T8	277	RECESSED	1'x4' ACRYLIC LENS, (1) 2—LAMP BALLAST
B5	COLUMBIA	4PS-14-232-G-FAA19-EB8LH-277	METALUX LITHONIA	(2) F032T8	277	CEILING RECESSED	1'x4' 3LAMP WITH HEAVY—DUTY ACRYLIC LENS, (1) 2—LAMP BALLAST
В6	COLUMBIA	ICO42R-PA10-T4/ICWG/ICCH/EM	METALUX LITHONIA	(2) F032T8	277	SURFACE	SIMILAR TO TYPE "B1" WITH AN EMERGENCY BATTERY BALLAST
С	COLUMBIA	L6-64-232-G-FA-WCB-EB8LH-277	METALUX LITHONIA	(2) F032T8	277	CEILING RECESSED	6"x4' COVE LIGHT FIXTURE WITH WHITE CROSS BAFFLE
C1	PMC	SPWW-CD-T-20CT-XX-WB-277	NEORAY LITECONTROL	(2) F032T8 PER 4' UNIT (4) F025T8 PER 6' UNIT (4) F032T8 PER 8' UNIT	277	CEILING RECESSED	9" WIDE; WALL TO WALL LENGTH, COVE LIGHT FIXTURE WITH WHITE CROSS BAFFLE. REFER TO ARCH. FLOOR PLAN FOR WALL TO WALL DIMENSIONS
C2	COLUMBIA	MS8-2U2D-T8WM-WCB-EB8LH- 277-MW-8'	NEORAY LITECONTROL	(8) F032T8 PER 8' UNIT	277	WALL SURFACE	8"x6" INDIRECT/DIRECT WALL MOUNTED FIXTURE WITH WHITE CROSS BAFFLE, (1) BALLAST PER 4' SECTION
С3	COLUMBIA	MS8-2U2D-T8WM-WCB-EB8LH- 277-MW-4'	NEORAY LITECONTROL	(4) F032T8 PER 4' UNIT	277	WALL SURFACE	8"x6" INDIRECT/DIRECT WALL MOUNTED FIXTURE WITH WHITE CROSS BAFFLE, (1) BALLAST PER 4' SECTION
D	LEDALITE	8505-T03-LN-XX-22-E-W	CORELITE PEERLESS	(6) F032T8 PER 8' SECTION	277	SUSPENDED AIRCRAFT CABLE	INDIRECT/ DIRECT LINEAR FLUOR. FIXTURE WITH # OF BALLASTS REQ'D FOR NORMAL/EMERG. DUAL LEVEL
D1	LEDALITE	8505-T03-LN-XX-22-E-W	CORELITE PEERLESS	(3) F032T8 PER 4' SECTION	277	SUSPENDED AIRCRAFT CABLE	SWG. REFER TO FLOOR PLÁNS FOR LENGTHS INDIRECT/ DIRECT LINEAR FLUOR. FIXTURE WITH # OF BALLASTS REQ'D FOR NORMAL/EMERG. DUAL LEVEL
D2	LEDALITE	8816-T03-WN-XX-2-2-E-W/A2	CORELITE	(6) F032T8 PER	277	SUSPENDED AIRCRAFT CABLE	SWG. REFER TO FLOOR PLÁNS FOR LENGTHS INDIRECT/ DIRECT LINEAR FLUOR. FIXTURE WITH # OF BALLASTS REQ'D FOR NORMAL/EMERG. DUAL LEVEL
D3	LEDALITE	8816-T03-WN-XX-2-2-E-W/A2	PEERLESS CORELITE	(3) F032T8 PER	277	SUSPENDED	SWG. REFER TO FLOOR PLANS FOR LENGTHS INDIRECT/ DIRECT LINEAR FLUOR. FIXTURE WITH # OF BALLASTS REQ'D FOR NORMAL/EMERG. DUAL LEVEL
E	INDY	708R-82E-SA	PEERLESS PORTFOLIO	4' SECTION (2) 18W QUAD	277	AIRCRAFT CABLE RECESSED	SWG. REFER TO FLOOR PLANS FOR LENGTHS 8" DIA. DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, WHITE TRIM RING
			LITHONIA				AND ELECTRONIC BALLAST 8" DIA. DOWNLIGHT WITH CLEAR
E1	INDY	708R-62E-SA	LITHONIA PORTFOLIO	(2) 26W QUAD	277	RECESSED	ALZAK REFLECTOR, WHITE TRIM RING AND ELECTRONIC BALLAST 8" DIA. LENSED DOWNLIGHT
E2	INDY	708R-32E-PPL-WL	LITHONIA	(2) 13W QUAD	277	RECESSED	ELECTRONIC BALLAST—RATED FOR WET LOCATION (SHOWER LIGHT) 8" DIA. WALLWASH DOWNLIGHT WITH
E3	INDY	728R-82E-SA	LITHONIA	(2) 18W QUAD	277	RECESSED	CLEAR ALZAK REFLECTOR, WHITE TRIM RING AND ELECTRONIC BALLAST 8" DIA. 180DEG WALLWASH DOWNLIGHT WITH
E3A	INDY	728R-82E-SA-180DEG	LITHONIA	(2) 18W QUAD	277	RECESSED	CLEAR ALZAK REFLECTOR, WHITE TRIM RING AND ELECTRONIC BALLAST
E4	INDY	703R-8I-SA	PORTFOLIO LITHONIA	150W INCAND.	120	RECESSED	INCANDESCENT DOWNLIGHT FOR LECTURE HALL
E5	INDY	748R-82H-SA	PORTFOLIO LITHONIA	(2) 18W QUAD	277	RECESSED	8" DIA. DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, WHITE TRIM RING AND DIMMABLE ELECTRONIC BALLAST
E6	INDY	710R-322E-SA	PORTFOLIO LITHONIA	(2) 32 WATT	277	RECESSED	10" DIA. DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, WHITE TRIM RING AND ELECTRONIC BALLAST (MEDIA CENTER)
E7	INDY	708R-82E-SA-EM	PORTFOLIO LITHONIA	(2) 18W QUAD	277	RECESSED	SIMILAR TO TYPE "E" WITH AN EMERGENCY BATTERY BALLAST
E8	INDY	470R1-SAC-120-L	PORTFOLIO LITHONIA	(1) PAR38-250W QUARTZ	120	RECESSED	8" DIA. 45DEG. DIRECTIONAL DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, WHITE TRIM RING
F	HUBBELL	BL-320W8-HG16/WG16/SY3- 277-2	LUMARK GE	(1) MP320/C/BU	277	CEILING PENDANT	HI-BAY INDUSTRIAL WITH WIREGUARD & POWER HOOK (GYMNASIUM)
F1	HUBBELL	BL-320W8-HG16/WG16-QST/SY3- 277-2	LUMARK GE	(1) MP320/C/BU (1) Q250/CL/DC	277	CEILING PENDANT	HI-BAY INDUSTRIAL WITH WIREGUARD & POWER HOOK WITH QUARTZ BACK-UP (GYMNASIUM)
G	COLUMBIA	CH-4-132-EB8LH-277	METALUX LITHONIA	(1) F032T8	277	SURFACE	6"x4' DISPLAY CASE FLUORESCENT STRIP LIGHT, (1) BALLAST, (1) LAMP
G1	COLUMBIA	CH-8-232-EB8LH-277	METALUX LITHONIA	(2) F032T8	277	SURFACE	6"x8' DISPLAY CASE FLUORESCENT STRIP LIGHT, (1) BALLAST, (2) LAMP
G2	COLUMBIA	CH-3-125-EB8LH-277	METALUX LITHONIA	(1) F025T8	277	SURFACE	6"x3' DISPLAY CASE FLUORESCENT STRIP LIGHT
Н	COLUMBIA	AWW4-3-332-EB8LH-277	METALUX LITHONIA	(2) F032T8	277	SURFACE	4' WRAPAROUND TYPE FIXTURE (WALK-THRU LIGHT AT GYMNASIUM)
J	ECLIPSE	220-TT(2)13-120-HPF/9002	LUMARK LITHONIA	(2) 13W PL	120	WALL	ELEVATOR PIT LIGHT
K	PRESCOLITE	TT8/TT10WH/T508	PRESCOLITE	90W PAR38-FL	120	SURFACE	LIGHT TRACK (ART ROOMS)
L	COLUMBIA	UC48-132-EB8LH-120	METALUX	(1) F032T8	120	SURFACE	4' LENGTH FLUORESCENT
M	ANTONANGELI LIGHTING		LUTREX	(1) 15WATT FLUOR.	120	PENDANT	UNDERCABINET LIGHT FIXTURE DECORATIVE SMALL PENDANT—FLUOR. PROVIDE PENDANT CORD LENGTH OF 8'-0" FOR
			VISA	(1) 13WATT FLUOR.			MODIFICATION IN FIELD (MEDIA CNTR) DECORATIVE LARGE PENDANT-FLUOR. PROVIDE
M1	ANTONANGELI LIGHTING	BIG BELL SYSTEM	VISA	. ,	120	PENDANT	WITH DIMMABLE BALLAST (MEDIA CNTR) DECORATIVE WALL MOUNTED LED PANEL UNIT (MEDIA
N	IO LIGHTING	0-02-10X10-100-1-0	– PORTFOLIO	LED	120	WALL MOUNT	CENTER) — CUSTOM COLORS BY ARCH ` 10" DIA LENSED DOWNLIGHT—WET
OA	INDY	744R-322E-PGL-WL	LITHONIA	(2) 32 WATT	277	RECESSED	LOCATION RATED W/ LOW TEMP. BALLAST (EXTERIOR) EXTERIOR WALL PACK—WET LOCATION RATED—W/
ОВ	LUMINIS	NT840-F232-GR-277	-	(2) 32 WATT	277	RECESSED	EXTERIOR WALL PACK—WET LOCATION RATED—W/ REMOTE MOUNTED EMERG. BATTERY PACK —COLOR: TITANIUM GRAY TO MATCH HIGH SCHOOL EXIT LIGHT WITH DIE—CAST ALUMINUM HOUSING, RED LETTERS WITH LET' HEIGHT AS PER AUTHORITY HAVING JURISDICTION, (CHEVRONS VISIBLE FF ANY DIRECTION UP TO 40'—0") — SHADED QUADRANTS INDICATE FACE S — PROVIDE SIDE DIRECTIONAL CHEVRONS AS INDICATED ON FLOOR PLA
X	PRESCOLITE	GC-X-R-E-W	SURELITES LITHONIA	LED	277VAC	WALL/CEILING MOUNTED	- PROVIDE SIDE DIRECTIONAL CHEVRONS AS INDICATED ON FLOOR PLA
X1	PRESCOLITE	EDS-2	SURELITES LITHONIA SURELITES	(2) 7.2W 6VOLT HALOGEN HEADS	277VAC/ 6VDC	WALL SURFACE CELLING	DECORATIVE TWIN HEAD EMERGENCY WALL PACK LIGHT FIXTURE
	PRESCOLITE	EDSP-2-FRM	SURELITES LITHONIA SURELITES	(2) 7.2W 6VOLT HALOGEN LAMPS (2) 5.4W 6VOLT	277VAC/ 6VDC 277VAC/	CEILING RECESSED CEILING	RECESSED EMERGENCY LIGHT SQUARE UNIT
X2	DDECC	ERS-2R	LITHONIA	HALOGEN LAMPS	6VDC	RECESSED	RECESSED TWIN HEAD EMERGENCY LIGHT UNIT
X2 X3 AOR	PRESCOLITE PRESCOLITE	DMX1REW-SW11	SURELITES LITHONIA	LED	277	WALL SURFACE	AREA OF REFUGE INDICATOR LIGHT WITH BATTERY PACK.

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS

DESCRIPTION

ASSOCIATES, INC.

ARCHITECTS

SCALE: AS NOTED

ELECTRICAL MOTOR CIRC. AND LTG. **SCHEDULES**

PROJECT NO.:

DRAWING NO.:

E4.01

	PANELBOARD SCHEDULE								
PANEL	LOCATION		PANEL DESC		L MT'O	A 1 0		CUIT BREAKER	REMARKS
		MAINS	VOLTAGE	POLES	MT'G	A.I.C.	ACTIVE 11 - 20/1	SPARE 7 - 20/1	+ (12) 1P SPACE
HP-1A1	ELECTRIC ROOM	150A M.C.B.	277/480	42	SURFACE	42K	3 - 20/3	, 20/1	AND BUS ONLY
	#A124						1 - 70/3		
							15 - 20/1	7 - 20/1	+ (8) 1P SPACE
HP-2A	ELECTRIC ROOM #A218	100A M.C.B.	277/480	30	SURFACE	22K	,	,	AND BUS ONLY
	π, (213								
			/				5 - 20/3	1 - 20/3	
MHP-2A	CUSTODIAN'S ROOM #A221	600A M.C.B.	277/480	42	SURFACE	42K	2 - 25/3		
	#*** *						2 - 35/3		
							1 - 60/3		
							1 - 70/3		
							1 - 125/3		
							1 - 250/3		
MHP-2A1	CUSTODIAN'S	125A M.L.O.	277/480	42	SURFACE	42K	4 - 20/3	3 - 20/3	+ (12) 1P SPACE
WITH -ZAT	ROOM #A221	125A W.L.O.	2777400	42	30NI ACL	42N	1 - 25/3		AND BUS ONLY
							1 - 50/3		
							1 - 70/3		
HP-1B1	ELECTRIC BOOM	1004 M C B	277 /480	42	SURFACE	22K	16 - 20/1	6 - 20/1	+ (17) 1P SPACE
пР-ТВТ	ELECTRIC ROOM #B133	100A M.C.B.	277/480	42	SURFACE	ZZK	1 - 60/3		AND BUS ONLY
MHP-1B	ELECTRIC ROOM	175A M.C.B.	277/480	42	SURFACE	22K	1 - 20/3	3 - 20/3	+ (24) 1P SPACE
WITH — ID	#B133	175A M.C.B.	277/400	42	SURFACE	ZZN	1 - 60/3		AND BUS ONLY
							1 - 150/3		
HP-2B	ELECTRIC ROOM	60A M.C.B.	277/480	30	SURFACE	22K	8 - 20/1	8 - 20/1	+ (14) 1P SPACE
TIF - 20	#B216	OUA W.C.B.	277/400		30INI ACL	ZZN			AND BUS ONLY
MHP-2B	ELECTRIC ROOM	350A M.C.B.	277/480	42	SURFACE	22K	3 - 20/3	2 - 20/3	
25	#B216			'-			1 - 25/3		
							2 - 35/3		
							1 - 50/3		
							1 - 60/3		
							3 – 70/3		
							1 - 100/3		
	+						3 - 20/3	2 - 20/3	+ (6) 1P SPACE
MHP-1C	ELECTRIC ROOM	350A M.C.B.	277/480	42	SURFACE	22K	1 - 25/3	2 - 20/3	AND BUS ONLY
	#C135						1 - 35/3		
							2 - 50/3		
							1 - 60/3		
							1 - 70/3		
							1 - 150/3		
							100/0		
	 		 		1		14 - 20/1	6 - 20/1	+ (10) 1P SPACE
HP-1C1	ELECTRIC ROOM	60A M.C.B.	277/480	30	SURFACE	22K		20/1	AND BUS ONLY
	#C111								
—	†						12 - 20/1	7 - 20/1	+ (5) 1P SPACE
ELSH-1A LIFE SAFETY	ELECTRIC ROOM #A142	100A M.C.B.	277/480	30	SURFACE	42K	2 - 60/3		AND BUS ONLY
POWER	#^\\42								
DISTRIBUTION PANEL									
	1	201117	6== /				8 - 20/1	6 - 20/1	+ (16) 1P SPACE
ELSH—1B LIFE SAFETY	ELECTRIC ROOM #B133	60A M.C.B.	277/480	30	SURFACE	22K	,	<u> </u>	AND BUS ONLY
POWER									
FLCU 40	ELECTRIC DOCL	604 44 0 0	277 /400	70	CHDEACE	2014	7 - 20/1	7 - 20/1	+ (16) 1P SPACE
ELSH—1C LIFE SAFETY	ELECTRIC ROOM #C135	60A M.C.B.	277/480	30	SURFACE	22K	, , , , , , , , , , , , , , , , , , ,	,	AND BUS ONLY
POWER] "								
ESPH-1A		450	6== /		C = -	, e :	1 - 20/3	6 - 20/1	+ (18) 1P SPACE
STANDBY	ELECTRIC ROOM #A142	150A M.C.B.	277/480	30	SURFACE	42K	1 - 150/3	,	AND BUS ONLY
POWER DISTRIBUTION	"2						1 - 2 / 3		
PANEL									
	1		1	<u> </u>	1		I	<u> </u>	1

PANEL	LOCATION		PANEL DESC	RIPTION			BRANCH CIRC		REMARKS
RP-1A	ELECTRIC ROOM	MAINS 225A M.C.B.	120/208	POLES 42	MT'G SURFACE	A.I.C. 22K	ACTIVE 26 - 20/1	SPARE 7 - 20/1	
KP-TA	#A142	ZZJA M.C.B.	120/208	42	SURFACE	ZZN	1 - 50/3 1 - 60/3		
							1 - 125/3		
	<u></u>	467					34 - 20/1	3 - 20/1	
RP-1A1	ELECTRIC ROOM #A124	125A M.C.B.	120/208	42	SURFACE	22K	1 - 50/2	/ '	
							1 - 70/3		
RP-1A2	ELECTRIC ROOM	125A M.L.O.	120/208	42	SURFACE	22K	6 - 20/1	9 – 20/1	+ (24) 1P SPACE
	#A124						1 - 20/3		AND BUS ONLY
								,	
RP1G-1A	ELECTRIC ROOM #A124	100A M.C.B.	120/208	42	SURFACE	22K	31 - 20/1 1 - 60/3	8 - 20/1	
	<i>"</i> , <u>_</u> .						(/:	(2.1) 12.22.12
RPIG-1A1	ELECTRIC ROOM #A124	100A M.L.O.	120/208	42	SURFACE	22K	9 - 20/1	9 - 20/1	+ (24) 1P SPACE AND BUS ONLY
	"						70 00 /4		
RP-2A	ELECTRIC ROOM #A218	500A M.C.B.	120/208	42	SURFACE	42K	30 - 20/1 1 - 60/3		
	"						2 - 100/3		
							1 - 300/3		
RP-2A1	ELECTRIC ROOM	100A M.L.O.	120/208	42	SURFACE	42K	32 - 20/1	4 - 20/1	+ (6) 1P SPACE AND BUS ONLY
	#A218								AND BOS CIVET
RP-2A2	ELECTRIC ROOM	100A M.L.O.	120/208	30	SURFACE	42K	15 - 20/1	6 - 20/1	+ (9) 1P SPACE AND BUS ONLY
	#A218								, BOO DIVET
							30 00 /4	7 00 4	
RPIG-2A	ELECTRIC ROOM #A218	100A M.C.B.	120/208	42	SURFACE	42K	32 - 20/1 1 - 60/3	7 – 20/1	
							6 00 4	6 00 4	
RP1G-2A1	ELECTRIC ROOM #A218	100A M.L.O.	120/208	42	SURFACE	22K	6 - 20/1	6 - 20/1	+ (30) 1P SPACE AND BUS ONLY
							36 - 20/1	3 - 20/1	
RP-1B	ELECTRIC ROOM #B133	225A M.C.B.	120/208	42	SURFACE	22K	1 - 100/3	J - ZU/I	
							34 - 20/1	8 - 20/1	
RP-1B1	ELECTRIC ROOM #B133	100A M.L.O.	120/208	42	SURFACE	22K	UT - ZU/I	J - ZU/I	
					<u> </u>		25 - 20/1	6 - 20/1	+ (11) 1P SPACE
RPIG-1B	ELECTRIC ROOM #B133	100A M.C.B.	120/208	42	SURFACE	22K	20 - 20/1	0 - 20/1	AND BUS ONLY
					-		37 - 20/1	2 - 20/1	
RP-2B	ELECTRIC ROOM #B216	150A M.C.B.	120/208	42	SURFACE	22K	1 - 70/3	2 20/1	
					<u> </u>		26 - 20/1	6 - 20/1	+ (10) 1P SPACE
RP-2B1	ELECTRIC ROOM #B216	100A M.L.O.	120/208	42	SURFACE	22K	20/1	5 20/1	AND BUS ONLY
							21 - 20/1	6 - 20/1	+ (15) 1P SPACE
RPIG-2B	ELECTRIC ROOM #B216	100A M.C.B.	120/208	42	SURFACE	22K			AND BUS ONLY
							32 - 20/1	2 - 20/1	
RP-1C	ELECTRIC ROOM #C135	225A M.C.B.	120/208	42	SURFACE	22K	1 - 30/2	, .	
							1 - 60/3 1 - 125/3		
RP-1C1	ELECTRIC ROOM	125A M.C.B.	120/208	42	SURFACE	22K	37 - 20/1 1 - 30/2	1 - 20/1	
	#C111						1 - 50/2		
					1		11 - 20/1	6 - 20/1	+ (10) 1P SPACE
RP-1C2	ELECTRIC ROOM #C111	60A M.C.B.	120/208	30	SURFACE	22K	1 - 20/3		AND BUS ONLY
							35 - 20/1	7 – 20/1	
RPIG-1C	ELECTRIC ROOM #C111	100A M.C.B.	120/208	42	SURFACE	22K		/ '	
DDE: -:	F. F	400	400 /500		CUE	0.01	6 - 20/1	2 - 20/1	+ (10) 1P SPACE
PPELEV ELEVATOR PANEL	ELEV. MACHINE RM. #A130	100A M.L.O.	120/208	18	SURFACE	22K			AND BUS ONLY
							12 - 20/1	6 - 20/1	+ (12) 1P SPACE
FLP FOOD LAB	STORAGE ROOM #A239	300A M.C.B.	120/208	42	SURFACE	22K	1 - 30/2	/ '	AND BUS ONLY
PANEL							5 - 50/2		
ARP	STORAGE ROOM	100A M.C.B.	120/208	30	SURFACE	22K	19 - 20/1	9 - 20/1	
ART ROOM AREA PANEL	#A217						1 - 50/2		
MSP MFG. SHOP	MFG/CONSTR. #A149	175A M.C.B. 200A MAIN	120/208	42	SURFACE	22K	22 - 20/1 2 - 20/2	8 - 20/1	
PANEL PANEL	π'\\\¬3	CONTACTOR					2 - 30/2		
							2 - 50/2		
TSP	TRANS.	70A M.C.B.	120/208	30	SURFACE	22K	16 - 20/1	6 - 20/1	+ (6) 1P SPACE
FANS. SHOP	#A148	100A MAIN CONTACTOR	, 233			`	1 - 20/2		AND BUS ONLY
ESPL-1A STANDBY	ELECTRIC ROOM	225A M.C.B.	120/208	30	SURFACE	22K	6 - 20/1 1 - 150/3	7 – 20/1	+ (14) 1P SPACE AND BUS ONLY
POWER	#A142						1 - 130/3		, BOO ONE!
							2 00 4	4 00 4	1 (6) 1D CD 105
ESPL-2B STANDBY	ELECTRIC ROOM #B216	40A M.C.B.	120/208	12	SURFACE	22K	2 - 20/1	4 - 20/1	+ (6) 1P SPACE AND BUS ONLY
POWER	"								1

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1

SEPTEMBER 9, 2002 PHASE 2

SEPTEMBER 25, 2002 PHASE 2

DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

DESCRIPTION

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR PHASE 1 BIDDING

DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1 BID

ADDITIONS RENOVATIONS

RHAM MIDDLE SCHOOL

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

vZHS PROJECT NUMBER: 2000155.01

ASSOCIATES, INC.

ARCHITECTS

SCALE: AS NOTED

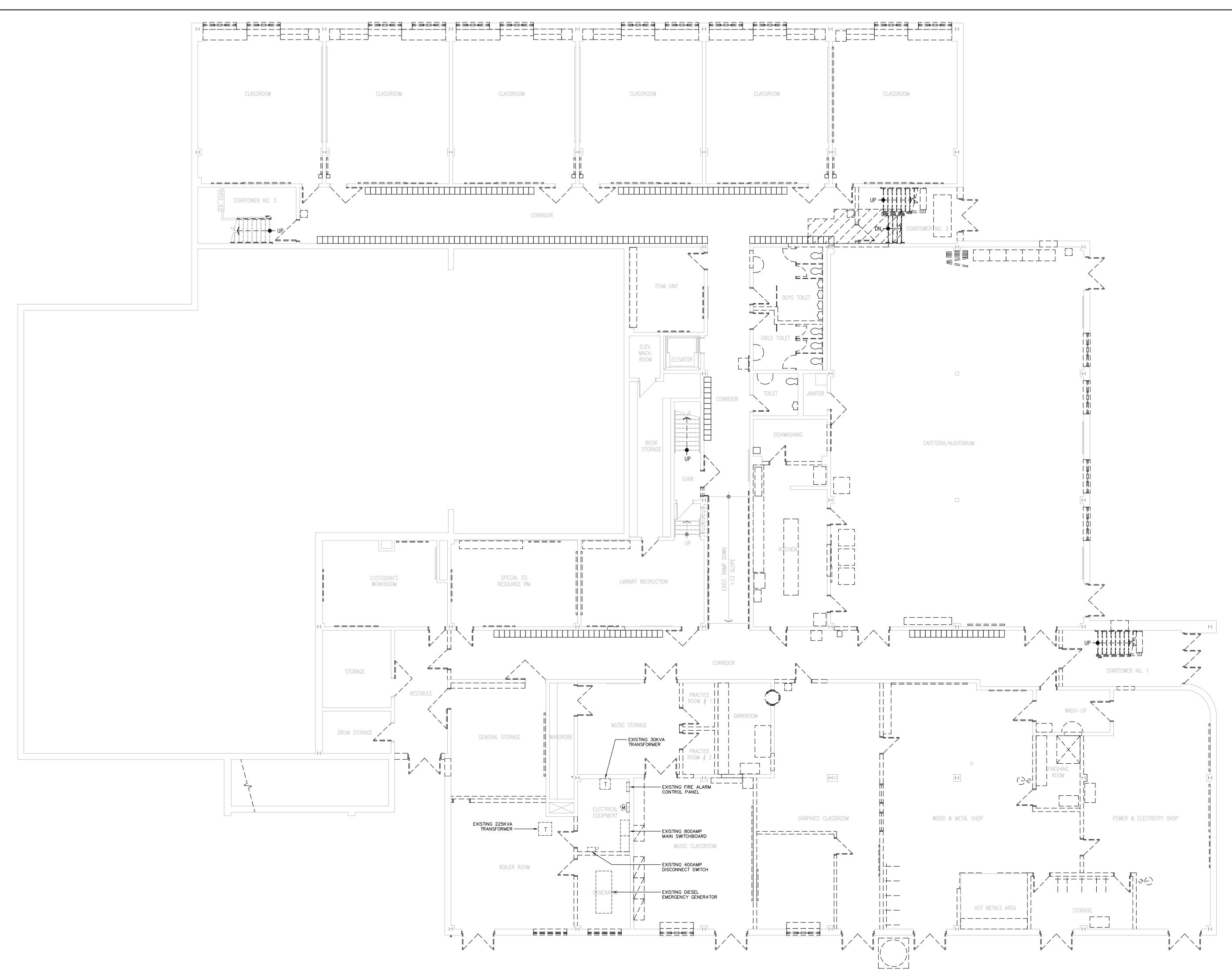
ELECTRICAL PANELBOARD SCHEDULES

PROJECT NO.: **00049**

DRAWING NO.:

DATE: SEPTEMBER 9, 2002

E4.02

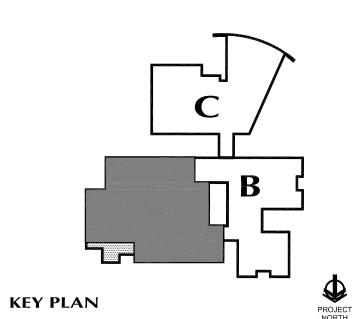


GENERAL DEMOLITION NOTES:

. DISCONNECT AND REMOVE ALL ELECTRICAL PANELBOARDS AND DISTRIBUTION EQUIPMENT WITHIN PROJECT DEFINED SCOPE UNLESS OTHERWISE NOTED ON FLOOR PLANS. ALL FEEDERS, BRANCH

CIRCUITS AND ASSOCIATED WIRING AND CONDUIT SHALL BE REMOVED.

- 2. DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES INCLUDING ASSOCIATED BOXES, CONDUIT AND FIXTURE HANGERS WITHIN PROJECT DEFINED SCOPE ON FLOOR PLANS, UNLESS OTHERWISE NOTED ON NEW WORK PLANS. ALL EXISTING BRANCH CIRCUIT WIRING SHALL BE REMOVED BACK TO SOURCE, UNLESS OTHERWISE NOTED. COORDINATE ALL WORK WITH NEW WORK LIGHTING PLANS AND OWNER PRIOR TO DEMOLITION. ALL EXISTING LIGHTING FIXTURES HAVE NOT BEEN SHOWN. VERIFY ALL FIELD CONDITIONS PRIOR TO BID.
- 3. ALL EXISTING LIGHTING FIXTURES SHALL BE OFFERED TO OWNER PRIOR TO DEMOLITION. ANY LIGHTING FIXTURES BEING RETAINED SHALL BE STORED AS DIRECTED BY OWNER. ALL LIGHTING FIXTURES INDICATED BY OWNER FOR DISPOSAL SHALL BE DISPOSED OF OFF SITE.
- 4. DISCONNECT AND REMOVE ALL RECEPTACLES, DATA/TEL OUTLETS AND ADDITIONAL SPECIAL SYSTEMS DEVICES ON ANY WALLS SHOWN AS DASHED, (WALLS TO BE REMOVED), OR ON WALLS AS DEFINED BY THE PROJECT SCOPE ON FLOOR PLANS, UNLESS DESIGNATED OTHÉRWISE. ALL BRANCH CIRCUIT WIRING FOR SUCH DEVICES BEING REMOVED SHALL BE REMOVED BACK TO SOURCE. REFER TO NEW WORK POWER PLANS FOR ANY DEVICES THAT ARE TO REMAIN AND BE REUSED AND/OR REWIRED. ALL DEVICES HAVE NOT BEEN SHOWN. VERIFY ALL FIELD CONDITIONS PRIOR TO BID.
- 5. DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM SYSTEM DEVICES INCLUDING MANUAL PULL STATIONS, HORN/STROBE UNITS, SMOKE AND HEAT DETECTORS. ALL EXISTING FIRE ALARM WIRING SHALL BE REMOVED BACK TO SOURCE. NEW FIRE ALARM DEVICES MAY BE RE-INSTALLED AT EXISTING LOCATIONS THAT REMAIN PROVIDED THE NEW INSTALLATION COMPLIES WITH CODE REQUIREMENTS. COORDINATE EXISTING SYSTEM DEVICE LOCATIONS WITH NEW WORK POWER FLOOR PLANS. VERIFY ALL FIELD CONDITIONS PRIOR TO BID.
- 6. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES, CONDUIT AND BRANCH CIRCUIT WIRING BACK TO SOURCE FOR ALL MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL DRAWINGS AND DIVISION 15 PRIOR TO BID AND START OF WORK.
- 7. REFER TO DRAWING #E0.00 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.



FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS

DRAWINGS ISSUED AS REFERENCE ONLY FOR

DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

DESCRIPTION

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR

ADDITIONS RENOVATIONS RHAM MIDDLE **SCHOOL**

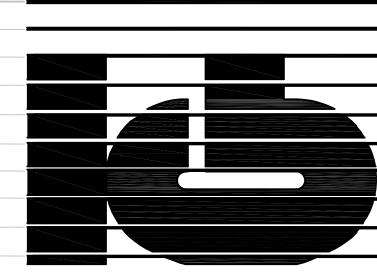
HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

VANZELMHEY WOOD SHADFORDING
MECHANICAL AND ELECTRICAL ENGINEERS

TEL (860) 521-4329 FAX (860) 521-5620

vZHS PROJECT NUMBER: 2000155.01



ASSOCIATES, INC. ARCHITECTS

DRAWN BY: RLG CHECKED BY: MWF SCALE: 1/8"=1'-0"

ELECTRICAL DEMOLITION MAIN LEVEL

PROJECT NO.: **00049**

DRAWING NO.:

DATE: **SEPTEMBER 9, 2002 ED1.01**

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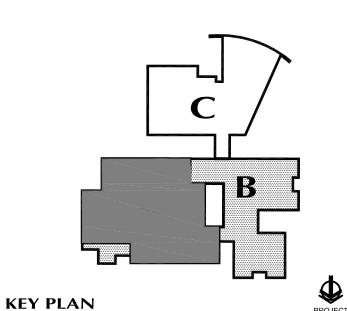
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GENERAL DEMOLITION NOTES:

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- 1. DISCONNECT AND REMOVE ALL ELECTRICAL PANELBOARDS AND DISTRIBUTION EQUIPMENT WITHIN PROJECT DEFINED SCOPE UNLESS OTHERWISE NOTED ON FLOOR PLANS. ALL FEEDERS, BRANCH CIRCUITS AND ASSOCIATED WIRING AND CONDUIT SHALL BE REMOVED.
- 2. DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES INCLUDING ASSOCIATED BOXES, CONDUIT AND FIXTURE HANGERS WITHIN PROJECT DEFINED SCOPE ON FLOOR PLANS, UNLESS OTHERWISE NOTED ON NEW WORK PLANS. ALL EXISTING BRANCH CIRCUIT WIRING SHALL BE REMOVED BACK TO SOURCE, UNLESS OTHERWISE NOTED. COORDINATE ALL WORK WITH NEW WORK LIGHTING PLANS AND OWNER PRIOR TO DEMOLITION. ALL EXISTING LIGHTING FIXTURES HAVE NOT BEEN SHOWN. VERIFY ALL FIELD CONDITIONS PRIOR TO BID.
- 3. ALL EXISTING LIGHTING FIXTURES SHALL BE OFFERED TO OWNER PRIOR TO DEMOLITION. ANY LIGHTING FIXTURES BEING RETAINED SHALL BE STORED AS DIRECTED BY OWNER. ALL LIGHTING FIXTURES INDICATED BY OWNER FOR DISPOSAL SHALL BE DISPOSED OF OFF SITE.
- 4. DISCONNECT AND REMOVE ALL RECEPTACLES, DATA/TEL OUTLETS AND ADDITIONAL SPECIAL SYSTEMS DEVICES ON ANY WALLS SHOWN AS DASHED, (WALLS TO BE REMOVED), OR ON WALLS AS DEFINED BY THE PROJECT SCOPE ON FLOOR PLANS, UNLESS DESIGNATED OTHERWISE. ALL BRANCH CIRCUIT WIRING FOR SUCH DEVICES BEING REMOVED SHALL BE REMOVED BACK TO SOURCE. REFER TO NEW WORK POWER PLANS FOR ANY DEVICES THAT ARE TO REMAIN AND BE REUSED AND/OR REWIRED. ALL DEVICES HAVE NOT BEEN SHOWN. VERIFY ALL FIELD CONDITIONS PRIOR TO BID.
- 5. DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM SYSTEM DEVICES INCLUDING MANUAL PULL STATIONS, HORN/STROBE UNITS, SMOKE AND HEAT DETECTORS. ALL EXISTING FIRE ALARM WIRING SHALL BE REMOVED BACK TO SOURCE. NEW FIRE ALARM DEVICES MAY BE RE—INSTALLED AT EXISTING LOCATIONS THAT REMAIN PROVIDED THE NEW INSTALLATION COMPLIES WITH CODE REQUIREMENTS. COORDINATE EXISTING SYSTEM DEVICE LOCATIONS WITH NEW WORK POWER FLOOR PLANS. VERIFY ALL FIELD CONDITIONS PRIOR TO BID.
- 6. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES, CONDUIT AND BRANCH CIRCUIT WIRING BACK TO SOURCE FOR ALL MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL DRAWINGS AND DIVISION 15 PRIOR TO BID AND START OF WORK.
- 7. REFER TO DRAWING #E0.00 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.



FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02

REVISIONS

MARK MARK

IE 10, 2002 PHASE 2

SEPTEMBER 9, 2002 PHASE 2

SEPIEMBER 25, 2002 PHASE

DECEMBER 16, 2002 PHASE

DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

DESCRIPTION

DRAWINGS ISSUED AS REFERENCE ONLY FOR

DRAWINGS ISSUED FOR SDE REVIEW AND REFERENCE FOR

DRAWINGS ISSUED AS REFERENCE ONLY FOR PHASE 1 BID

ADDITIONS
AND
RENOVATIONS
RHAM

MIDDLE SCHOOL

HEBRON, CONNECTICUT 06248

STATE PROJECT NO. 208-0018 N/EA/RR

VANZELMHEY WOOD SHADFORDINC
MECHANICAL AND ELECTRICAL ENGINEERS

29 SOUTH MAIN STREET WEST HARTFORD CT 06107-2420
TEL (860) 521-4329 FAX (860) 521-5620

VZHS PROJECT NUMBER: 2000155.01

ASSOCIATES, INC.

ARCHITECTS

DRAWN BY: RLG CHECKED BY: MWF SCALE: 1/8"=1'-0"

ELECTRICAL DEMOLITION UPPER LEVEL

PROJECT NO.: **00049**

DRAWING NO.:

DATE: SEPTEMBER 9, 2002 ED1.02